



# ClimACT



CLIMACT - ACTING FOR THE TRANSITION TO A LOW CARBON ECONOMY  
IN SCHOOLS – DEVELOPMENT OF SUPPORT TOOLS

## E 1.2.1 Reports of Meetings with Stakeholders and Focus Group Discussions

June 2019

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# EXECUTIVE SUMMARY

The Report of meetings with Stakeholders and Focus Group Discussion is an internal document of the ClimACT project, delivered in the context of WP1 – Development of a thematic networking in SUDOE – especially in Activity 1.2. The objective of WP1 is to develop a Thematic Network in the SUDOE Region to promote the transition to a low carbon economy in schools across the SUDOE region over the lifespan of the project and to build strong foundations for further implementation of the project results after the end of the project. This report presents the feedback from stakeholders, the main conclusions of the meetings and the interactions between ClimACT team and stakeholders.

The deliverable includes the following sections:

- Executive summary;
- Introduction of the context of the whole project and the explanation of where this deliverable fits in the project structure;
- Guidelines to conduct the Stakeholders and Focus Group Sessions;
- Overview of the Stakeholder meetings and Focus Groups delivered;
- Annexes: Records of the most relevant sessions and seminars delivered in each country.

# 1 INTRODUCTION

The main objective of the ClimACT Project is to promote the transition to a Low Carbon Economy (LCE) in the educational sector. The project gathers partners with complementary roles from all SUDOE countries to coordinate sharing of good practice and the implementation of joint solutions to common challenges affecting efficient energy management and the promotion of sustainable practice in schools.

The Activity 1.2 in Work-Package 1 of the ClimACT project planned the organisation of 15 meetings (3 in each city) to gather the stakeholders in Lisbon, Seville, La Rochelle, Madrid and Gibraltar.

This report represents the Deliverable 1.2.1, which includes the reports of the meetings with stakeholders and focus groups organised by each partner.

## **2 GUIDELINES TO CONDUCT FOCUS GROUP SESSIONS**

## 2.1 General Information

Clarification of concepts within Task 1.2:

— FOCUS GROUP SESSIONS:

- At least one Focus Group session in each city is required.
- The focus group must target a specific topic.
- The focus group will be limited to 8-12 attendees.
- The objective of the focus group will be to gather the feedback of the attendees, and should serve to build on and improve the strategies and tools developed in ClimACT.
- The initial idea of setting up the focus groups every 6 months (coinciding with partners meetings) did not fit with the purpose of the focus group. Therefore, the initial plan has been amended so that each city can host their focus group session in due course in view of including the feedback gathered in the session into ClimACT's developments.
- The focus group session should be conducted in the local language, but the meeting report/minute has to be presented in English.

— STAKEHOLDERS SESSIONS:

- Three sessions in each city along the project should be agended:
  - 1st session: general informative session about the project and its objectives. Date: End 2016/Beginning 2017
  - 2nd session: a session to inform about the progress of the project. Date: January 2018
  - 3rd session: a session to inform about the results and achievements of the project. Date: May 2019
- The objective of the stakeholder session is to communicate the activities of the project to a broad audience.
- Therefore, stakeholder sessions should be open to attendees of diverse backgrounds: schools, environmental experts, general public, public administrations, ESCOs, etc (even count with those attending the focus group session).
- The stakeholder session should be conducted in the local language, but the meeting report has to be presented in English.

## 2.2 Focus group sessions – Guidelines and general information

The focus groups were initially set in the proposal at a certain dates and places, but this does not match the reality on the ground.

Hence, it was decided to change this approach and each partner was asked to provide their preferred topic in order to host a Focus Group session together with a tentative date to conduct the session.

Table 1 summarises the schedule (date and theme) of the selected focus group sessions by the partners.

**Table 1 - List of focus group sessions with themes and dates.**

| Partner                       | Theme   | Date   |
|-------------------------------|---|--|
| <b>ABAE</b>                   | Integrating education for sustainability in school curricula<br><b>Focus Group Meeting #1</b>   | 20 <sup>th</sup> January 2017 during the Eco-Schools seminar |
| <b>CIEMAT</b>                 | LCA in the context of educational centres<br><b>Focus Group Meeting #2</b>  | 23 <sup>rd</sup> February 2017                               |
| <b>ISQ</b>                    | Business models and management strategies for schools, in order to gain access to:<br>- requirements and inputs for Activity 2.7<br>- feedback on the features and functionalities that the Resource Matching-Platform (Activity 1.5) should provide<br><b>Focus Group Meeting #3</b> | 27 <sup>th</sup> March 2017                                  |
| <b>USE</b>                    | Energy Efficiency and Circular Economy in Schools   | To be Defined  |
| <b>UNIGIB</b>                 | Education for Sustainable Development   | To be Defined  |
| <b>URL / VLR</b>              | <b>Indoor air quality in schools</b> (can be organised by ULR and VLR)  | To be Defined  |
| <b>IST</b>                    | Mobility  | To be Defined  |
| <b>EDIGREEN</b>               | TBD   | To be Defined  |
| <b>Additional focus group</b> | <b>Workshop about indoor air quality</b> (organized by Associação Portuguesa de Engenharia do Ambiente in partnership with ClimACT project)   | 26 <sup>th</sup> June 2017                                   |

## 2.1.1 Methodology

The general approach of focus group implementation is summarised in the graph below:

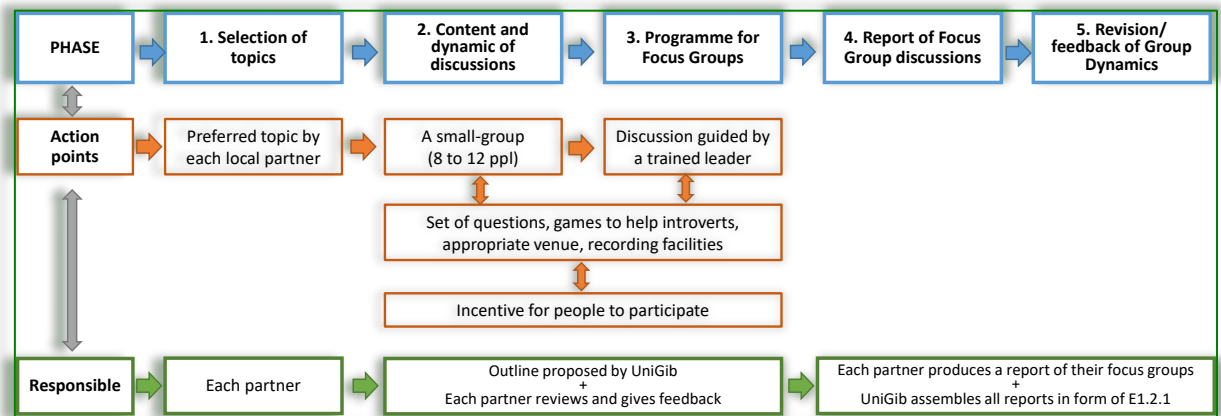


Figure 1 - General approach of focus group implementation.

## 2.1.2 Planning the focus group session

### 2.1.2.1 Defining de focus group

- A focus group is a **small group of people** (8-12) led through an open discussion by a **skilled moderator/trained leader**.
- The focus group moderator nurtures disclosure in an open and spontaneous format.
- The moderator's goal is to generate a maximum number of different ideas and opinions from as many different people in the time allotted.
- The ideal amount of time to set aside for a focus group is **90 to 120 minutes**. Beyond that most groups are not productive and it becomes an imposition on participant time.
- Focus groups are structured around a set of carefully **predetermined questions** – usually **no more than 10** – but the discussion is free-flowing.
- Ideally, participant comments stimulate and influence the thinking and sharing of others. Some people even find themselves changing their thoughts and opinions during the group.
- A homogeneous group of strangers comprise the focus group. **Homogeneity levels the playing field and reduces inhibitions** among people who will probably never see each other again.
- It takes more than one focus group on any one topic to produce valid results – usually three or four. However, there is no budget in ClimACT project for this, so an effort to make the most out of one session should be done.



### 2.1.2.2 Designing focus group questions

- **Twelve is the maximum number of questions** for any group. Ten is better, and eight is ideal.
- Focus group **participants won't have a chance to see the questions they are being asked**. So, to make sure they understand and can fully respond to the questions posed the questions should be:
  - Short and objective;
  - Non-threatening or embarrassing;
  - Open-ended or sentence completion types;
  - Worded in a way that they can't be answered with a simple "yes" or "no" answer (use "why" and "how" instead).
- There are 3 types of focus group questions:
  1. **Engagement questions:** introduce participants to and make them comfortable.
  2. **Exploration questions:** get to the meat of the discussion.
  3. **Exit question:** check to see if anything was missed in the discussion.

#### AN EXAMPLE

##### *Questions for a Focus Group on Dental Flossing*

##### **Engagement questions:**

1. *What is your favourite toothpaste?*
2. *What do you notice when you look at other people's teeth?*

##### **Exploration Questions:**

3. *Who in particular has influenced your dental habits?*
4. *What are the pros and cons of flossing your teeth?*
5. *When you floss, how do follow through? When you don't, why not?*
6. *How do you feel when told about possible damage caused by not flossing?*
7. *How do you feel about yourself when you floss regularly? When you don't?*

##### **Exit question:**

8. *Is there anything else you would like to say about why you do or do not floss your teeth on a regular basis?*

### 2.1.2.3 Recruiting and preparing for participants

- Focus Groups participants can be **recruited** as follows:
  - **Nomination** – Key individuals nominate people they think would make good participants. Nominees are familiar with the topic, known for their ability to respectfully share their opinions, and willing to volunteer about 2 hours of their time.
  - **All members of the same group** – Sometimes an already existing group serves as an ideal pool from which to invite participants (e.g. a research group, teachers association, parents of teen-age boys etc.).

- **Homogeneity is key** to maximising disclosure among focus group participants. Consider the following:
  - Age – How intimidating would it be for a young person to be included in a group of older adults? Or vice-versa?
  - Power – Would a teacher be likely to make candid remarks in a group where his/her principal is also a participant?
  - Cliques – How influential might three cheerleaders be in a group of high school peers?
- Once a group of viable recruits has been established, **confirm interest and availability**. Give them time and location of the focus group and secure confirmation. Tell them you will email a written confirmation and call to **remind those two days before** the scheduled group.
- Decide about **incentives** (if need be). E.g. coupons, gift vouchers, raffle tickets, publicity through ClimACT network, in ClimACT webpage, etc.
- Tell participants that the focus group will take about **one and half to two hours**. Give them a starting time that is 15 minutes prior to the actual start of the focus group to allow for filling out necessary paperwork, having a bite to eat, and settling in to the group.
- Arrange for a **comfortable room in a convenient location**. The room should have a door for privacy and table and chairs to seat a circle of up to 12 people (including the moderator and assistant moderator). Offer a beverage and light snack (cookies, cheese/crackers, veggie tray, etc.).

#### 2.1.2.4 Conducting the focus group

- The focus group is conducted by a **moderator** and **assistant moderator**. The moderator facilitates the discussion; the assistant takes notes and records the session (if applicable).
- The ideal focus group **moderator** has the following traits:
  - Is able to **listen and think** at the same time;
  - Has **adequate knowledge** of the topic;
  - Can **keep personal views out** of the facilitation;
  - Is someone the group can relate to but also give authority to;
  - Can appropriately manage challenging group dynamics.
- Both moderator and assistant moderator are expected to **welcome participants**, offer them food, help them make their name tents, and direct them in completing pre-group paperwork.
- Name tents should identify participants with a **number for anonymous identification of individuals** as they make comments.
- Suggestion: All participants should **complete a consent form**.

*AN EXAMPLE*  
*Consent to Participate in Focus Group*

You have been asked to participate in a focus group sponsored by ..... The purpose of the group is to ..... The information learned in the focus group will be used to .....

There are no right or wrong answers to the focus group questions. We want to hear many different viewpoints and would like to hear from everyone. We hope you can be honest even when your responses may not be in agreement with the rest of the group. In respect for each other, we ask that only one individual speak at a time in the group and that responses made by all participants be kept confidential.

I understand this information and agree to participate fully under the conditions stated above:

Signed: \_\_\_\_\_  
Date: \_\_\_\_\_

- It may be important to collect **demographic information** from participants (e.g. nationality, age, gender and job). If so, short half page questions can be delivered with the informed consent.
- Once **consent forms and demographic surveys are collected and reviewed for completeness**, the questioning begins.
- The **moderator** uses a **prepared script to welcome participants**, remind them of the purpose of the group and also sets ground rules.

*EXAMPLE*  
*FOCUS GROUP INTRODUCTION*

**WELCOME**

Thanks for agreeing to be part of the focus group. We appreciate your willingness to participate.

**INTRODUCTIONS**

Moderator; assistant moderator

**PURPOSE OF FOCUS GROUP**

We have been asked by \_\_\_\_\_ to conduct the focus groups.

The reason we are having these focus groups is to find out \_\_\_\_\_.

We need your input and want you to share your honest and open thoughts with us.

**GROUND RULES**

1. WE WANT YOU TO DO THE TALKING.

We would like everyone to participate.

I may call on you if I haven't heard from you in a while.

2. THERE ARE NO RIGHT OR WRONG ANSWERS

Every person's experiences and opinions are important.

Speak up whether you agree or disagree.

We want to hear a wide range of opinions.

3. WHAT IS SAID IN THIS ROOM WILL FORM PART OF A REPORT

We want folks to feel comfortable sharing when sensitive issues come up.

We want to capture everything you have to say.

Opinions will be reflected in a report and may remain anonymous if you wish so.

### 2.1.2.5 The role of the moderator

- Before asking the first focus group question, an **icebreaker** can be inserted to increase comfort and level the playing field. Example: “If you had a limitless budget, where would you go on holiday?”, games to help introverts.
- The focus group moderator has a responsibility to adequately **cover all prepared questions within the time allotted**. S/he also has a responsibility to **get all participants to talk** and fully explain their answers. Some helpful probes include:
  - “Can you talk more about that?”
  - “Help me understand what you mean”
  - “Can you give an example?”
- It is good moderator practice to paraphrase and **summarise long, complex or ambiguous comments**. It demonstrates active listening and clarifies the comment for everyone in the group.
- Because the moderator holds a position of authority and perceived influence, s/he must **remain neutral**, refraining from nodding/raising eyebrows, agreeing/disagreeing, or praising/denigrating any comment made.
- A moderator must tactfully **deal with challenging participants**. Here are some strategies:
  - Self-appointed experts: *“Thank you. What do other people think?”*
  - The dominator: *“Let’s have some other comments.”*
  - The rambler: *Stop eye contact; look at your watch; jump in at their inhale.*
  - The shy participant: *Make eye contact; call on them; smile at them.*
  - The participant who talks very quietly: *Ask them to repeat their response more loudly.*
- When the focus group is complete the **moderator thanks all participants** and distributes the incentive (if need be).
- Immediately after all participants leave, the **moderator and assistant moderator debrief** and label all notes with the date, time and name of the group.
- **A well-prepared and experienced moderator is the key to the success of the focus group.**

### 2.1.2.6 Post Focus Group activity – analysing the data

- In order for all participant comments to be understandable and useful, they must be boiled down to essential information, **stripping off nonessential material**.
- Assign **each participant comment/quote a separate line** on the transcript as well as each new thought or idea therein. Label each line with the **participant number**.
- Write a **short paragraph summarising findings** possibly noting similarities and differences across responses. Once focus group findings are organized in the synthesised format they are ready for presentation.

- The **report** of each focus group require a formal narrative format that includes an **executive summary, background section, methods used, major findings, conclusions, and recommendations.**

### 2.1.2.7 Schedule – Action points

| WHAT   | WHO                | WHEN   |
|--|--------------------|--|
| <b>Guideline for focus group session</b>   | UniGib             | October 2016   |
| <b>Defining the Focus Group</b><br>Confirm the topic, profile of attendees and dates   | Each local partner | November 2016  |
| <b>Designing Focus Group Questions</b><br>Engagement questions<br>Exploration questions<br>Exit question   | Each local partner | December 2016  |
| <b>Recruiting and Preparing for Participants</b><br>Agenda of the focus group session<br>Contacting and recruitment of participants<br>Identification of the moderator or assistant moderator <sup>1</sup> | Each local partner | At least 8 weeks before the set date<br><b>The practical organisation of a focus group requires a lot of time.</b> |
| <b>Conducting the Focus Group</b>  | Each local partner | At the date set by each local partner  |
| <b>Template for Reporting</b>  | UniGib             | December 2016  |
| <b>Reporting of Each Session, analysing the data</b>   | Each local partner | 10 working days after having conducted the Focus Group   |

<sup>1</sup> If no expertise is available in house, it may be necessary to recruit external consultant to conduct the moderation

### **3 GUIDELINES TO CONDUCT STAKEHOLDERS MEETINGS**

## 3.1 Guidelines and General Information

The objective of the **stakeholder sessions** is to **communicate** the activities of the project to a **broad and varied audience**. Therefore, stakeholder sessions should be open and consider **attendees of diverse backgrounds**. The audience can include the same participants of the focus plus public administrations, schools, ESCOs, teachers, students, local media, environmental experts, general public/citizens, representatives of the programme, etc.

Three sessions will be performed in each city along the project:

- **1<sup>st</sup> session: General informative session** about the project and its objectives. Date: **End 2016/Beginning 2017**.
- **2<sup>nd</sup> session:** A session to inform about the **progress of the project**. Date: **January 2018**.
- **3<sup>rd</sup> session:** A session to inform about the **results and achievements** of the project. Date: **May 2019**.

Each session should not take more than **90 minutes**. The stakeholder session should be **conducted in the local language**, but the meeting report has to be presented in English.

## 3.2 Schedule – Action points

| WHAT  | WHO                | WHEN                |
|---|--------------------|---------------------|
| Draft Agenda of 1 <sup>st</sup> stakeholder session | UniGib             | Nov 2016            |
| Carry out 1 <sup>st</sup> stakeholder session       | Each local partner | Dec 2016 / Feb 2017 |
| Template for Reporting                              | UniGib             | Dec 2016            |
| Reporting of 1 <sup>st</sup> session                | Each local partner | Mar / Apr 2017      |
| Draft Agenda of 2 <sup>nd</sup> stakeholder session | UniGib             | Dec 2017            |
| Carry out 2 <sup>nd</sup> Stakeholder session       | Each local partner | Jan 2018            |
| Reporting of 2 <sup>nd</sup> session                | Each local partner | Feb 2018            |
| Draft Agenda of 3 <sup>rd</sup> stakeholder session | UniGib             | Mar 2019            |
| Carry out 2 <sup>nd</sup> Stakeholder session       | Each local partner | May 2019            |
| Reporting of 2 <sup>nd</sup> session                | Each local partner | Jun 2019            |

## **4 OVERVIEW OF THE STAKEHOLDER MEETINGS AND FOCUS**

### **GROUPS DELIVERED TO DATE**



## 4.1 Summary table

### 4.1.1 Meetings with stakeholders

| Stakeholders meetings  | Leading partner | Total No. Editions/events | 41   |
|--|-----------------|---------------------------|------|
|  |                 | Total No. Participants    | 1726 |
| - 7 September 2016 – Meeting members External Advisory Board   | IST             | No. Editions/events       | 1    |
|  | All             | No. Participants          | 34   |
| -14 November 2016 - Stakeholders meeting: ClimACT presentation for the elected representative of the municipality of La Rochelle                           | ULR<br>VLR      | No. Editions/events       | 1    |
|  |                 | No. Participants          | 20   |
| - 21 November 2016- Stakeholder Session 1 in Seville, Spain  | USE             | No. Editions/events       | 1    |
|  |                 | No. Participants          | 25   |
| - 19 August, 13 December 2016 and 15 February 2017 – Meetings to present the project to the Dept. of Education of HM Government of Gibraltar               | UniGib          | No. Editions/events       | 3    |
|  |                 | No. Participants          | 10   |
| - 12 de Agosto de 2016- Meeting to present the project to the Dept. of the Environment of HM Government of Gibraltar                                       | UniGib          | No. Editions/events       | 1    |
|  |                 | No. Participants          | 2    |
| - 13 March 2017 - stakeholders meeting : presentation of the results of the behaviour questionnaire to the LCC of IUT and discussion about the action plan | ULR             | No. Editions/events       | 1    |
|  |                 | No. Participants          | 9    |
| - 29 May de 2017 - Stakeholders meeting in Portugal with Moebius   | ISQ<br>IST      | No. Editions/events       | 1    |
|  |                 | No. Participants          | 47   |
| - 17 July 2017 - stakeholder meeting : presentation of ClimACT update to the team of municipal building managers   | VLR             | No. Editions/events       | 1    |
|  |                 | No. Participants          | 7    |
| - 27 July 2017 Meeting with Educational Authority. Mar Jiménez.  | Ciemat          | No. Editions/events       | 1    |
|  |                 | No. Participants          | 3    |

| Stakeholders meetings   | Leading partner | Total No. Editions/events | 41   |
|---|-----------------|---------------------------|------|
|   |                 | Total No. Participants    | 1726 |
| - 12 October 2017 (IUT) and 21 December 2017 (Dautet high school) - stakeholders meetings: presentation of the results of indoor air quality measurements to the LCC                  | ULR             | No. Editions/events       | 2    |
|   |                 | No. Participants          | 17   |
| - 9 November 2017 -Information Day Interreg SUDOE, Cadiz, Spain   | USE             | No. Editions/events       | 1    |
|   |                 | No. Participants          | 35   |
| - 17 November 2017 - Stakeholders meeting in "Regional Training Course on Advanced Methods in Positive Matrix Factorisation (PMF) and Potential Source Contribution Functions (PSCF)" | IST             | No. Editions/events       | 1    |
|   |                 | No. Participants          | 27   |
| - 13 December 2017 - “Energy efficiency as a tool for sustainable development” Stakeholders meeting in Portugal with Stepping and EduFootprint  | IST             | No. Editions/events       | 1    |
|   |                 | No. Participants          | 70   |
| - 19 December 2017- Stakeholder Session 2 in Seville, Spain   | USE             | No. Editions/events       | 1    |
|   |                 | No. Participants          | 24   |
| - 6 December 2017 - Meeting with reps from the Dept. Education and Dept. Environment (Core Committee)   | UniGib          | No. Editions/events       | 1    |
|   |                 | No. Participants          | 7    |
| - 17 January 2018 - Meeting with reps from the Dept. Education and Dept. Environment (Core Committee)   | UniGib          | No. Editions/events       | 1    |
|   |                 | No. Participants          | 7    |
| - 31 January 2018 - Meeting with local NGOs to present the project  | UniGib          | No. Editions/events       | 1    |
|   |                 | No. Participants          | 13   |
| - 12 February 2018- ToF-ACSM Training School and Training School on source distribution of organic aerosol  | IST             | No. Editions/events       | 1    |
|   |                 | No. Participants          | 30   |
| - 21 February 2018 - Meeting with reps from the Dept. Education and Dept. Environment (Core Committee)  | UniGib          | No. Editions/events       | 1    |
|   |                 | No. Participants          | 7    |

| Stakeholders meetings  | Leading partner                          | Total No. Editions/events | 41   |
|--|--|---------------------------|------|
|  |  | Total No. Participants    | 1726 |
| - 25 April 2018 - Meeting with reps from the Dept. Education and Dept. Environment (Core Committee)  | UniGib                                   | No. Editions/events       | 1    |
|  |  | No. Participants          | 8    |
| - 17 May 2018 - Meeting with reps from the Dept. Education and Dept. Environment (Core Committee)  | UniGib                                   | No. Editions/events       | 1    |
|  |  | No. Participants          | 8    |
| - 23 May 2018 - 107th Anniversary of Instituto Superior Técnico "Developing Pathways for a low carbon economy in schools"  | IST                                      | No. Editions/events       | 1    |
|  |  | No. Participants          | 100  |
| - 29 May 2018 - Meeting with reps from the Dept. Education and Dept. Environment (Core Committee)  | UniGib                                   | No. Editions/events       | 1    |
|  |  | No. Participants          | 5    |
| - 5 June 2018 - Seminar Loures InSS 2018 – Innovation, Society and Sustainability, co-organized by Loures Municipality and IST, Bobadela. Presentation “Building low carbon cities - ClimACT project”. | IST                                      | No. Editions/events       | 1    |
|  |  | No. Participants          | 50   |
| - 6 June 2018 - 15 Years of the Interreg Sudoe programme, Committee of the Regions. Brussels, Belgium  | IST<br>UniGib                            | No. Editions/events       | 1    |
|  |  | No. Participants          | 50   |
| - 19 June 2018 - Stakeholders meeting in Sinfonia project meeting, La Rochelle   | ULR                                      | No. Editions/events       | 1    |
|  |  | No. Participants          | 58   |
| - 20 June 2018 - Meeting with local NGOs to present the project  | UniGib                                   | No. Editions/events       | 1    |
|  |  | No. Participants          | 13   |
| - 29 August 2018 - E5T: Seminar about energy transition in La Rochelle. Presentation of the ClimACT project by an elected representative of the community  | VLR                                      | No. Editions/events       | 1    |
|  |  | No. Participants          | 100  |
| - 10 October 2018 "Interreg Talks: 6 projects, 1 slam", organised by the Interact Programme, at the European Week of Cities and Regions 2018, Brussels, Belgium.                                       | IST<br>Unigib,<br>VLR,<br>Ciemat,<br>ULR | No. Editions/events       | 1    |
|  |  | No. Participants          | 250  |

| Stakeholders meetings   | Leading partner                          | Total No. Editions/events | 41   |
|---|--|---------------------------|------|
|   |  | Total No. Participants    | 1726 |
| - 8-10 October 2018, "Regiostars Awards 2018", Representation of the ClimACT project as finalist in the European Cities and Regions Week 2018, Brussels, Belgium. | IST<br>Unigib,<br>VLR,<br>Ciemat,<br>ULR | No. Editions/events       | 1    |
|   |  | No. Participants          | 400  |
| - 7 November 2018 - Meeting with reps from the Dept. Education and Dept. Environment (Core Committee)   | UniGib                                   | No. Editions/events       | 1    |
|   |  | No. Participants          | 9    |
| - 10 November 2018 – Foundation of education for sustainable development - Seminar of environmental education   | VLR                                      | No. Editions/events       | 1    |
|   |  | No. Participants          | 100  |
| - 15 November 2018 Gibraltar ESF and ERDF Monitoring Committee Meeting, presentation of the ClimACT project   | UniGib                                   | No. Editions/events       | 1    |
|   |  | No. Participants          | 30   |
| - 20 December 2018- Stakeholder Session 3 in Seville. Spain   | USE                                      | No. Editions/events       | 1    |
|   |  | No. Participants          | 30   |
| - Years 2017 and 2018: European energy Award. Municipal project to decrease carbon footprint.   | VLR                                      | No. Editions/events       | 1    |
|   |  | No. Participants          | 100  |
| - 6 February 2019 - Meeting with reps from the Dept Education and Dept Environment (Core Committee)   | UniGib                                   | No. Editions/events       | 1    |
|   |  | No. Participants          | 8    |
| - 7 March 2019 UK Delegation for EU Structural Funds, presentation of ClimACT project   | UniGib                                   | No. Editions/events       | 1    |
|   |  | No. Participants          | 8    |
| - 16 April 2019 - Meeting with CSIC-RJB   | CIEMAT                                   | No. Editions/events       | 1    |
|   |  | No. Participants          | 5    |

## 4.1.2 Focus group meetings

| Focus Group discussions   | Leading partner | Total No. Editions/events | 7   |
|---|-----------------|---------------------------|-----|
|   |                 | Total No. Participants    | 154 |
| - 20 January 2017 – Integration of education for sustainable development in schools curricula   | ABAE            | No. Editions/events       | 1   |
|   |                 | No. Participants          | 14  |
| - 23 February 2017 – Life cycle analysis as a tool to increase sustainability of schools environmental performance  | Ciemat          | No. Editions/events       | 1   |
|   |                 | No. Participants          | 11  |
| - 27 March 2017 – Business models and management strategies for schools   | ISQ             | No. Editions/events       | 1   |
|   |                 | No. Participants          | 8   |
| - 26 June 2017 – Workshop. Indoor Air Quality, co-delivered by APEA – Portuguese Association of Environmental Engineering   | IST             | No. Editions/events       | 1   |
|   |                 | No. Participants          | 37  |
| - 19 December 2017- Focus group: “Energy Efficiency and Circular Economy in Schools” in Seville, Spain  | USE             | No. Editions/events       | 1   |
|   |                 | No. Participants          | 24  |
| - 8 February 2018 - Workshop on Indoor Air Quality in schools   | ULR<br>VLR      | No. Editions/events       | 1   |
|   |                 | No. Participants          | 45  |
| - 3 November 2018, Seminar “Culture and Knowledge Cycle” organised by Ponte de Sôr city council. Topic “The role of schools to tackle climate change: the ClimACT project”. | IST             | No. Editions/events       | 1   |
|   |                 | No. Participants          | 15  |

## 5 Annexes

For the purpose of this deliverable, details of selected sessions and seminars delivered in each country are included hereinafter.

Complete records of all the sessions, as per the tables included in Sections 4 of this deliverable, are at the disposal of the managing authority upon request.

The selected collections of Stakeholder and Focus Group meeting records have been grouped per country, listed in alphabetical order, as follows:

- Annex 1: France;
- Annex 2: Gibraltar;
- Annex 3: Portugal;
- Annex 4: Spain.

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## **Annex 1: France**

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## France: Presentation of the ClimACT project in France

### Presentation of the ClimACT project to Pilot-Schools in France

With the purpose to present the ClimACT project, several small meetings were carried out by the ULR team. In Table 12 is presented the name of each pilot school, the date, duration and venue of each meeting and also the participants.

Table 1 - Information about meeting between CIEMAT and pilot-schools in Madrid

| Pilot-School       | Date       | Duration | Venue                        | Participants   |
|--------------------|------------|----------|------------------------------|--|
| IUT of La Rochelle | 21/11/2016 | 1h30     | IUT of La Rochelle           | Head of IUT - Patrice Joubert<br>ULR - Patrice Blondeau and Jérôme Le Dréau  |
| Lycée Rompsay      | 30/11/2016 | 1h30     | Lycée Rompsay, La Rochelle   | Head of Lycée de Rompsay - Sébastien Frimont<br>Bursar of Lycée de Rompsay - Laurent Rivière<br>ULR - Patrice Blondeau   |
| Lycée Dautet       | 02/12/2016 | 2h       | Lycée Dautet, La Rochelle    | Head of Lycée Dautet - Patrick Ance<br>Elected representative of the municipality of La Rochelle - Gérard Gouron<br>ULR - Patrice Blondeau<br>VLR - Hélène Rouquette |
| Ecole Descartes    | 15/12/2016 | 30 min   | Ecole Descartes, La Rochelle | Head of Ecole Descartes - Hélène André<br>VLR - Hélène Rouquette   |
| Ecole Jean Bart    | 16/12/2016 | 1h       | Ecole Jean Bart, La Rochelle | Head of Ecole Jean Bart - Astrid Giraud<br>VLR - Hélène Rouquette  |

### Presentation of the ClimACT project to Pilot Schools and other stakeholders in La Rochelle – first meeting

ULR organized a meeting with the representatives of the pilot schools of La Rochelle to present the ClimACT project. This meeting took place on November 14, 2016 in Ecole Bathélémy Profit, in La Rochelle. This meeting was attended by 12 persons who held an open discussion on the ClimACT project, the role of the partners and the pilot schools throughout the project's time frame (Table 13 and Figure 22).

Patrice from ULR made a brief presentation about the ClimACT project to all participants. The presentation is shown in Annex 6.4.

Table 2 - List of participants in La Rochelle' Meeting

| Full Name            | Affiliation   |
|----------------------|---|
| Emmanuel Martet      | Ecole Grandes Varennes  |
| Dominique Siquès     | Lycée Dautet  |
| Patrice Joubert      | IUT La Rochelle   |
| Christine Labrousche | École Bongraine   |
| Jean-Marc Danlos     | École Barthélémy Profit                                       |
| Karine Maisant       | École Laleu   |
| Daniele Jousselin    | Building and Energy Department of Municipality of La Rochelle |
| Sylvie Gatineau      | School Department of Municipality of La Rochelle              |
| Béatrice Cormerais   | Health and Hygiene Department of Municipality of La Rochelle  |
| Guillaume Vivion     | Health and Hygiene Department of Municipality of La Rochelle  |
| Patrice Blondeau     | ULR   |
| Hélène Rouquette     | VLR   |

**VILLE DE LA ROCHELLE**  
DIRECTION GENERALE ADJOINTE DE  
L'ÉCOLOGIE URBAINE ET DES SERVICES TECHNIQUES  
Service Nature et paysages

**FEUILLE DE PRESENCE**

OBJET DE LA REUNION : Présentation aux établissements du projet ClimACT  
DATE : 14/12/2016

| NOMS / PRENOMS       | ORGANISME / FONCTION             | N° TEL                           | Email                                  | EMARGEMENT |
|----------------------|----------------------------------|----------------------------------|--|------------|
| Siquès Dominique     | Prof. adj. lycée Dautet          | 0675560845                       | dominique.siques@ac-poitiers.fr        |            |
| Joubert Patrice      | Directeur IUT-LR                 | 06 0883 2311                     | pjoubert@iut-lr.fr                     |            |
| LABROUSCHE Christine | Prof. des écoles école Bongraine | 0665 207531                      | labrousche.chris@aol.com               |            |
| JOUSSELIN Daniel     | Administrateur technique         | 06 71 33 20 12                   | daniel.jousselin@ville-larochelle.fr   |            |
| Gatineau Sylvie      | Responsable technique            | 05 47 47 10 15                   | sylvie.gatineau@ville-larochelle.fr    |            |
| CORMERAI Béatrice    | Directrice Santé Publique        | 05 46 51 51 46                   | beatrice.cormerais@ville-larochelle.fr |            |
| Vivion Guillaume     | Directeur Santé Publique         | 05 46 51 50 05                   |  |            |
| DANLOS Jean-Marc     | Directeur École éton B. PROFIT   | 05 46 44 74 48                   | e-bp-larochelle@ac-poitiers.fr         |            |
| MAISANT Karine       | Prof. des écoles Laleu           | 05 46 49 78 16<br>05 46 49 09 85 | karine.maisant@ac-poitiers.fr          |            |


| NOMS / PRENOMS   | ORGANISME / FONCTION                           | N° TEL         | Email                              | EMARGEMENT  |
|------------------|--|----------------|------------------------------------|---|
| MARTIET Emmanuel | direction générale<br>conseil d'administration | 06.22.97.62-92 | e-lgv-la Rochelle BOC - pntes - fr |  |
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|                  |  |                |                                    |   |

Figure 3 - Attendance List assigned (La Rochelle first meeting)

### AOB during the first meeting in La Rochelle

During the session, pictures were taken in all different moments of the event, from the registration of attendees, the session explanation, the official delivery of poster of each centre and some others of groups of attendees.

## Pictures of the Session



Figure 4 - Explanation of the ClimACT project

# ClimACT

Agir pour la transition vers une économie bas carbone des établissements scolaires  
– Développement d'outils d'accompagnement



## Région SUDOE



## Programme de Coopération Interreg V-B Europe du Sud-Ouest (INTERREG SUDOE)

Programme promouvant la coopération transnationale pour résoudre des problèmes communs aux régions du sud-ouest européen

- Financement de projets via le Fond Européen de Développement Régional (FEDER)
- Actuellement 3<sup>ème</sup> période : 2015-2020 (141 M€ de budget votés en 2015 par l'UE)



## Programme de Coopération Interreg V-B Europe du Sud-Ouest (INTERREG SUDOE)





# Organisation au sein de l'établissement



## Actions à engager rapidement !

- **Déclarations d'engagement dans le projet** à signer par le directeur d'établissement et le coordinateur bas carbone
- **Désignation du Coordinateur Bas Carbone, constitution du Conseil Bas Carbone et de la Brigade bas carbone** → faire des photos !!!
- **Réalisation des audits techniques pour chacun des établissements**



Renseignement du questionnaire remis et documents d'accompagnement (services de la Ville et de la CDA pour les écoles élémentaires)

Préparation de la campagne de mesure de la qualité de l'air et du confort prévue en Mars/Avril/Mai 2017



Visite des représentants de l'Université pour sélectionner les 2 salles de classe à instrumenter

**31 Décembre 2016 !**



## Actions à engager rapidement !

- **Remplissage du questionnaire de comportement (10-15')**
  - A remplir par les **élèves** (minimum 30%) et les **personnels** de l'établissement (minimum 30% avec représentation des différentes fonctions)
  - Questions sur le comportement individuel en matière de gestion de l'énergie, de l'eau, des déchets, des transports, ...
  - Essentiellement des QCM
  - Le remplissage peut nécessiter l'aide d'un adulte pour les élèves les plus jeunes
  - Questionnaire à compléter en ligne, si possible en classe



**31 Décembre 2016 !**



## **REPORT OF FOCUS GROUP SESSION**

**Minutes: 8<sup>th</sup> February 2018**

**Venue: Institute of Technology, La Rochelle**

### **1. Executive summary**

The theme of the focus group meeting that was held on the 8<sup>th</sup> of February, 2018, from 4:30 pm to 7:00 pm, was Indoor Environment Quality in Schools. The meeting, organized by ULR and VLR, was held at the Institute of Technology (IUT), which is one of the nine French pilot schools. Forty-four persons representing a very large variety of stakeholders attended the event. The focus group meeting was organised as a joint stakeholder meeting where three projects dealing with indoor environment measurements in schools (including ClimACT) were presented. That way, the attendees could get useful information about the main issues and obstacles to overcome before interesting discussions started.

### **2. Background (rationale of the session, incl. THEME)**

The theme of the focus group meeting was “Indoor Environment Quality in Schools”. The aim was to promote discussions on the means and the brakes to the improvement of the air quality in educational buildings, as a way to define possible actions to undertake in the ClimACT pilot schools, or other schools.

### **3. Attendees**

See signature sheets

### **4. Agenda of the session**

- 4:15 Late registrations and welcome of attendees
- 4:30 Opening – Presentation of the ClimACT project
- 4:40 Overview of indoor air quality in the 35 pilot schools of the Climact project - P. Blondeau, LasIE / Université de La Rochelle
- 5:10 Initiatives to provide healthy indoor air in La Rochelle nursery and primary schools - B. Cormerais, Direction Santé Publique et Accessibilité de la Ville de La Rochelle
- 5:40 Indoor environment quality in schools, an integrated approach: indoor air quality, noise and electromagnetic fields - C. Mandin, Observatoire de la Qualité de l’Air Intérieur
- 6:10 Open discussion
- 6:30 Conclusion and cocktail party

## **5. Methods used**

The focus group meeting was organised as a workshop. Experts first presented the main findings of three projects, including the indoor air quality measurements that were carried out in the ClimACT pilot schools. The objective was to provide an overview of typical indoor environment issues, and to highlight the specificities of schools compared to other kinds of indoor environments. Then discussions were guided to make the attendees react about the results presented, share their experiences, collect the feedback from stakeholders and raise ideas about possible actions to undertake in ClimACT schools and others.

## **6. Minutes of the session**

### **i. Welcome and opening**

Céline Berthier (City of La Rochelle) chaired the meeting. As an opening, she made a brief presentation of the ClimACT projet, as well as the agenda and the objectives of the meeting.

### **i. Overview of the discussion**

Each of the three presentations by the experts lasted 20 minutes. Questions and discussions between attendees about the points addressed in the presentations followed. Then, more general discussions have taken place. They were most of time initiated by stakeholders who shared their personal experience. One very interesting point is that the debate slowly turn to discussions between attendees sharing similar or different point of views, rather than questions to the experts and ClimACT partners.

### **ii. Major findings or points addressed**

When discussing the TVOC concentration peaks during the occupancy periods of the classrooms, someone suggested that for high schools and universities, a significant part of the emissions to the indoor air might originate from second-hand tobacco smoke, i.e. VOCs that adsorb on clothes and hair when students are smoking, and then desorb from surfaces when the students are in the classrooms. This is a likely assumption, indeed.

Some teachers noted that they would be willing to open the windows more often during classes, but it is practically impossible for technical reasons (many windows cannot open).

Questions aroused about the periods when windows should preferentially be opened, i.e. occupancy periods or breaks. Experiments conducted by the City of La Rochelle in the frame of the Impactair project showed that window openings have a big but short-term impact on CO<sub>2</sub> concentrations. Therefore, based on CO<sub>2</sub> and energy, it is more efficient to open windows more often but for short times.

Many teachers and technical managers showed great interest in having Class'Air CO<sub>2</sub> sensors in their schools. ULR and VLR provided information about the cost and the way they are working.

Among the possible solutions to control indoor air quality, somebody asked the question of the relevance of installing air-cleaning materials in schools. P. Blondeau answered that these



materials divide into two categories and only sportive materials should be considered. Moreover, materials tested according to standards shall be preferred as a way to be able to assess the possible improvement of IAQ. The crux of the matter is nevertheless the lifetime of these materials, in terms of adsorption capacity. The lifetime included on the commercial documentations are determined based on theoretical considerations. They have not been verified so far. Finally, the cost is also significantly higher.

Many people keep thinking that indoor quality directly relates to the outdoor air pollution, which is obviously wrong. C. Mandin answered a question about the impact of traffic and oil regulations on indoor quality by saying that lead is no longer detected in the indoor air, indoor benzene concentrations are lower than they were some time ago, but nitrogen dioxide is still an indoor quality issue. An attendee who had recently worked in the suburbs of Paris noted that benzene concentrations that he measured in some schools there were pretty higher than those measured in the ClimACT pilot schools.

C. Mandin's presentation of measurements of electromagnetic fields in schools called for many questions, although any value exceeded the guidelines in the French schools investigated. C. Mandin and B. Cormerais indicated the procedure to apply for a free diagnosis in a building. They underlined that the results of all the measurements made by the accredited agency are open to the public on the web. An attendee also highlighted that the question of electromagnetic field might be a more serious issue in secondary and university schools than in primary schools due to the large majority of students having a cellular phone.

Attendees asked for information about the mandatory measurements of indoor air quality in schools, which will extend to secondary schools by 2020.

### **iii. Conclusions**

The event has been a success considering the number and variety of attendees. Any idea that could trigger actions by the ClimACT partners aroused, but the presentations and discussions were the opportunity to raise awareness on indoor air quality on the one hand, and to insist on the fact that the challenge is not only to decrease energy consumption and CO<sub>2</sub> emissions, but to conciliate energy savings, indoor air quality and comfort. The focus group meeting also allowed understanding and facing the practical constraints of all kinds of stakeholders represented.

### **iv. AOB**

One student from Dautet high school, Miss Maroussia Rayner, attended the meeting. She contacted P. Blondeau few days later to ask for a CO<sub>2</sub> sensor as she decided to present indoor air pollution as the topic of her free presentation to the jury for the Baccalaureat.

## Annexes

### Pictures of the session



## Signature lists

Atelier « Qualité de l'air dans les établissements scolaires », IUT de La Rochelle, 8 Février 2018

 ClimACT

| Nom Prénom          | Organisme            | e-mail                        | Signature  |
|---------------------|----------------------|-------------------------------|--|
| ① BEAUDEAU Patrice  | Univ. La Rochelle    | patrice.blanchard@univ-lr.fr  |  |
| ② BERNIERE Céline   | Ville de La Rochelle | prophete-nature@ville-lr.fr   |   |
| ③ MAUDIN Cécilia    | CLTB                 | cecilia.maudin@cltb.fr        |   |
| ④ BASTIE Christophe | Ville de La Rochelle | christophe.bastie@ville-lr.fr |   |
| ⑤ BASSIE Odélie     | Société Sodeco       | Odélie.bassie@sodeco.fr       |   |
| ⑥ AODIC Marc        | Univ. La Rochelle    | marc.aodic@univ-lr.fr         |   |
| ⑦ LE MEUR Jérôme    | "                    | jlemer@univ-lr.fr             |   |
| ⑧ MARCOURT Emile    | Ville de La Rochelle | —                             |   |
| ⑨ BOUET Gilles      | Ville de Buzay       | gilles.bouet@ville-buzay.fr   |   |

| Nom Prénom            | Organisme                 | e-mail                                | Signature   |
|-----------------------|---------------------------|---------------------------------------|---|
| ① GUYON Aurélie       | IREPS NA                  | a.guyon@ireps-na.org                  |  |
| ② REY Pauline         | Lygis Doulet              | paulline.rey@lygis-doulet.com         |   |
| ③ SEIGNEURIN Adèle    | IUT La Rochelle           | adeline.seigneurin@iut-lr.fr          |    |
| ④ MARCILLATIN Capella | Département de la Gironde | capella.marcillatin@iut-lr.fr         |    |
| ⑤ LAFRESSES Aurélie   | Département 17            | aurélie.lafresses@iut-lr.fr           |    |
| ⑥ REINE Thomas        | Université de Bordeaux    | thomas.reine@univ-bordeaux.fr         |    |
| ⑦ JONSSON David       | Paris de la Rochelle      | david.jonsson@paris-de-la-rochelle.fr |    |
| ⑧ MERRILLON Noémie    | Lygis Doulet              | noemie.merrillon@lygis-doulet.com     |    |
| ⑨ GUYON Marc          | Le Petit Breoulleux       | marc.guyon@le-petit-breoulleux.fr     |    |



Atelier « Qualité de l'air dans les établissements scolaires », IUT de La Rochelle, 8 Février 2018


  
 ClimACT









| Nom Prénom               | Organisme               | e-mail                        | Signature   |
|--------------------------|-------------------------|-------------------------------|---|
| (18) MARTEL Paul         | Université LR           | paul.martel@univ-lr.fr        |  |
| (19) HUBERT Mehdi        | Univ La Rochelle        | mehdi.hubert@univ-lr.fr       |   |
| (20) PELLERIN Simon      | ATMO Nouvelle-Aquitaine | sp@atmo-nouvelle-aquitaine.fr |    |
| (21) GATIGNOUX Sylvie    | Parcine bp Rochelle     | sylvie.gatignoux@univ-lr.fr   |    |
| (22) BARRAUD Emilien     | IUT La Rochelle         |                               |    |
| (23) DEHOVE Arson        | Universals LR           |                               |    |
| (24) Evola M. Etienne    | Mairie LR               |                               |    |
| (25) GETHAMU Ogele       | Polytechnique de Pau    |                               |    |
| (26) MASSIVET D. Schmitt | Mairie Thoiry           | dmasivet@thoiry.fr            |    |

Atelier « Qualité de l'air dans les établissements scolaires », IUT de La Rochelle, 8 Février 2018

ClimACT

| Nom Prénom           | Organisme               | e-mail                        | Signature   |
|----------------------|-------------------------|-------------------------------|---|
| ② RAVNER Marianne    | lycée Jean Dautet       | marianne.ravner@laposte.fr    |  |
| ②3 GRAMINE Gaëlle    | UNIV LA                 | gaëlle.gramine@univ-lr.fr     |   |
| ②4 DESVALLAIS Adrien | lycée Jean Dautet       | adrien.desvallais@laposte.fr  |    |
| ②5 DECERIE Joann     | ESLH Air nous sauvegard | joann.decerie@univ-lr.fr      |    |
| ②6 DORREAU Frédéric  | lycée Dautet            | frederic.dorreau@univ-lr.fr   |    |
| ②7 GUILLEMIN Fabrice | VLR - Septi-9           | fabrice.guillemain@univ-lr.fr |    |
| ②8 DUTHIER Lion      | PMO Nouvelle Aquitaine  | lion.duthier@univ-lr.fr       |    |
| ②9 GIRAUDON Fabrice  | VLR - Septi-9           | fabrice.giraudon@univ-lr.fr   |    |
| ③0 Le Dellec Fanny   | lycée Dautet            | fanny.le-dellec@univ-lr.fr    |    |

Atelier « Qualité de l'air dans les établissements scolaires », IUT de La Rochelle, 8 Février 2018

| Nom Prénom           | Organisme                              | e-mail                      | Signature   |
|----------------------|--|-----------------------------|---|
| ① MEERON Hugo        | Lycee Duval                            | zackmoulay@univ-lr.fr       |  |
| ② Pailley Clement    | Univ - LR                              | c.pailley@univ-lr.fr        |   |
| ③ Vivier Guillaume   | ville la Rochelle                      |                             |    |
| ④ M. Elhachimi Fekri | ville d'Angoulême                      | f.elhachimi@univ-lr.fr      |    |
| ⑤ LUPIN Hugo         | Bureau d'étude                         | hugo.lupin@univ-lr.fr       |    |
| ⑥ NOTARD DENIS       | ville de La Rochelle                   | denis.notard@univ-lr.fr     |    |
| ⑦ BOATIN Bernard     | Sec. Environnement<br>C.A. La Rochelle | bernard.boatin@univ-lr.fr   |    |
| MICHAUX Ghislain     | Univ LR                                | ghislain.michaux@univ-lr.fr |    |

## Presentation C. Berthier (opening)

interreg  
Sudoe

ClimACT

Atelier QAI – présentation ClimACT

Cécile Berthier – service Nature & Paysage  
Ville de La Rochelle

Forum Sud-ouest de l'Europe

www.climact.net

Qu'est-ce que le projet ClimACT

• Un projet européen de l'Agence Interreg Sudoe

Région Sud-ouest de l'Europe

www.climact.net

Les partenaires ClimACT

• Les partenaires de l'Agence Interreg Sudoe  
• Economie faible carbone

Objectif : Proposer des outils, d'aide à la décision et éducatifs, aux établissements scolaires afin d'encourager la transition vers une économie faible carbone.

Juillet 2016 → Juillet 2016

www.climact.net

Les écoles du projet ClimACT

• 33 écoles pilotes en France  
• 4 pays concernés : France, Espagne, Portugal, Gibraltar

En France :

• 9 écoles pilotes à La Rochelle  
• 6 écoles primaires  
• 2 lycées  
• 1 RUT

www.climact.net

Les actions ClimACT

• Plateforme internet  
• Formation en E-learning  
• Ressource éducative  
• Mise en relation des acteurs

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Les actions ClimACT

• Plateforme internet  
• Formation en E-learning  
• Ressource éducative  
• Mise en relation des acteurs

• Actions dans les écoles  
• Plan d'actions par année scolaire  
• Comité de pilotage multi-acteurs  
• Proposition d'activités pédagogiques

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### Les actions ClimACT

- Plateforme Internet
  - Formation en E-learning
  - Ressource éducative
  - Mise en relation des acteurs
- ACTION DANS LES ÉCOLES
  - Plan d'actions par année scolaire
  - Comité de pilotage multi-acteurs
  - Proposition éducative
- Outils techniques
  - Réalisé par les partenaires
  - Création d'outils d'analyse des données
  - Énergie, eau, déchets, alimentation, espaces verts, mobilité, qualité de l'air

20 mars 2020

www.climact.net

### Communication ClimACT

Facebook: @CLIMACTSUDOE  
Instagram: @Climact  
LinkedIn: Interreg.SUDOE.ClimACT

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20 mars 2020

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### ClimACT – Atelier QAI 8 février 2020

- Résultat des ateliers ClimACT concernant la QAI
  - Université de La Rochelle
- Ateliers de la ville pour améliorer la QAI - IMMACM
  - E. Garmier, Directeur Général Adjoint de la Ville de La Rochelle
- Résultats de la pré-enquête nationale "Écoles" pour la QAI
  - C. Rivière, Directeur de la Direction de l'Énergie

20 mars 2020

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### ClimACT – Atelier QAI 8 février 2020

- 16:30 Interventions
- 18:10 Discussion
- 18:30 Cocktail

20 mars 2020

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Interreg  
Sudoe

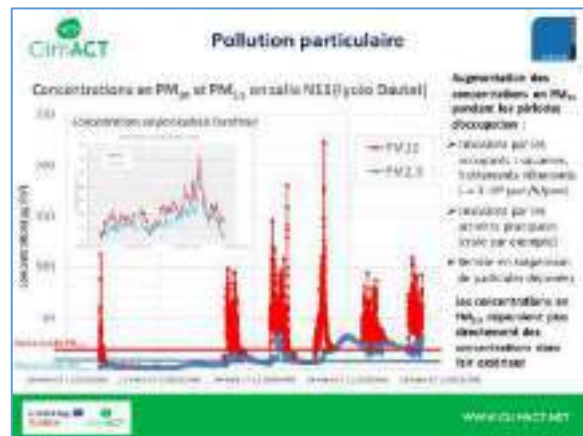
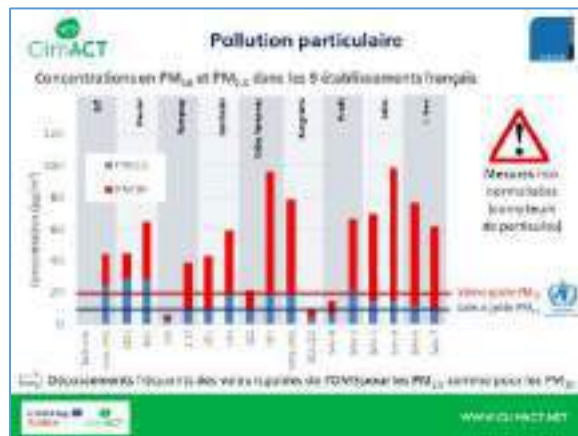
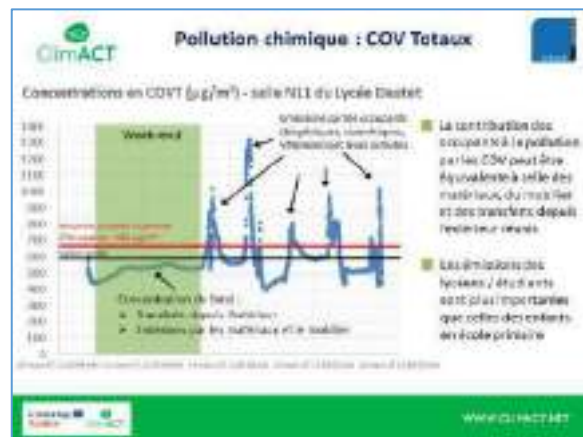
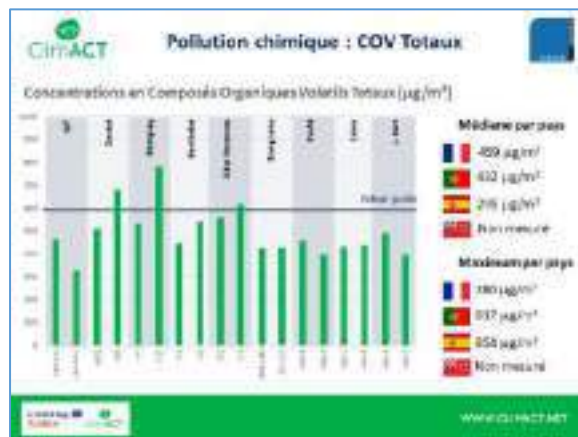
**ClimACT**

To encourage the transition to Low Carbon Schools through the development of technical and educational tools and activities

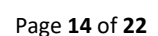
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## Presentation P. Blondeau









## Presentation B. Cormerais

8 février 2018

ClimACT

Amélioration de la qualité de l'air  
dans les écoles et les crèches de la  
Rochelle- IMPACTAIR

Direction Santé, Prévention et Environnement



QUALITÉ DE L'AIR INTÉRIEUR EN SAVOIR PLUS POUR AGIR

### Origine et contexte local

- Dynamiques encouragées par la Ville de La Rochelle
  - Membre du Réseau Français des Villes Saines de l'OMS
  - Qualité de l'air intérieure
    - Intégration campagne pilote écoles et crèches : mesures test dont une école de la ville + actions de sensibilisation (2010 - 2013)
    - Prem QAI depuis 2011
    - Motivité de mettre en place une stratégie pour améliorer la QAI et sensibiliser les acteurs
  - Maintien des mesures de QAI malgré assouplissement de cadre réglementaire
- Appel à projet AXCT AIR - IMPACTAIR - INOVAR

QUALITÉ DE L'AIR INTÉRIEUR EN SAVOIR PLUS POUR AGIR

### Objectifs d'IMPACTAIR

- Objectif global : Répondre à un enjeu de santé publique en améliorant la qualité de l'air intérieur (QAI) dans les établissements scolaires et les crèches
- Objectifs opérationnels :
  - Mieux comprendre la situation des établissements de La Rochelle et les déterminants de la QAI
  - Renforcer les connaissances sur les sources de pollution et les différents déterminants dynamiques de son niveau
  - Tester l'effet de différentes stratégies d'action sur la qualité de l'air
  - Guider les occupants des bâtiments pour une meilleure gestion de la QAI
  - Identifier des plans d'action pour la Ville et accompagner les acteurs et décideurs locaux




QUALITÉ DE L'AIR INTÉRIEUR EN SAVOIR PLUS POUR AGIR

### Phases du projet IMPACTAIR



**Phase 1 : Diagnostic** (Situation, enjeux, acteurs)

**Phase 2 : Planification** (Stratégie, actions, ressources)

**Phase 3 : Mise en œuvre** (Actions, suivi, évaluation)

**Mettre en place des actions pour améliorer la qualité de l'air intérieur**

QUALITÉ DE L'AIR INTÉRIEUR EN SAVOIR PLUS POUR AGIR

### Déterminants de la QAI collectés pour tous les établissements



**Autres paramètres de situation**  
Température, humidité, bruit

**Profil de l'établissement**  
Type d'établissement, Configuration, Ancienneté, Surface, Coefficient d'isolation

**Source d'émissions extérieures**  
Émission relative au trafic, Proximité au trafic

**Source d'émissions intérieures**  
Type de bâtiment, Matériaux, Meubles, Matériel

**Activités et comportements**  
Occupation et usage de la pièce, Activités réalisées, Équipement, Déplacement, Éclairage, Pratiques d'entretien

QUALITÉ DE L'AIR INTÉRIEUR EN SAVOIR PLUS POUR AGIR

### Résultats clés de la phase de surveillance

- Bien-être : pas de situation préoccupante à La Rochelle mais quelques cas à surveiller (proximité d'axes de circulation importante)
- Niveau de confinement : pas de situation préoccupante ; des problèmes de confinement plus fréquents dans les crèches
- Formalisme :
  - Aucune situation extrême
  - Aucune situation préoccupante en termes d'atteinte des objectifs à long terme : une majorité de cas entre la valeur cible ( $0,3 \mu\text{g}/\text{m}^3$ ) et la valeur guide ( $0,5 \mu\text{g}/\text{m}^3$ )
  - Deux cas préoccupants : bâtiments classés avec une attention portée sur les matériaux à faible émission de COV et/ou la ventilation
  - Des disparités importantes entre établissements et classes / DUIS / DIF







**QUALITÉ DE L'AIR INTÉRIEUR** **EN SAVOIR PLUS POUR AGIR**

Actions déjà réalisées par la ville de la Rochelle

Diagnostic des établissements de la Rochelle  
Appui des associations  
Intégration des données  
Mise en œuvre des mesures correctives

**ACCORD**

- Collège d'experts pour les problèmes de construction et de rénovation des écoles

**ENTRETIEN DES LOCAUX**

- Révision et mise à jour des protocoles d'entretien des locaux et des équipements, et maintenance
- Contrôle de l'état des points d'aération dans les écoles
- Nettoyage à l'eau tiède dans 2 groupes scolaires
- Mise en œuvre des protocoles d'entretien des locaux (produits labellisés, etc.)

Appui des associations  
Mise en œuvre des mesures correctives

**QUALITÉ DE L'AIR INTÉRIEUR** **EN SAVOIR PLUS POUR AGIR**

Actions déjà réalisées par la ville de la Rochelle

Diagnostic des établissements de la Rochelle  
Appui des associations

**VERIFICATION DES DISPOSITIFS DE VENTILATION ET MESURES CORRECTIVES**

Optimisation des dispositifs de ventilation avec des mesures correctives

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**QUALITÉ DE L'AIR INTÉRIEUR** **EN SAVOIR PLUS POUR AGIR**

Actions déjà réalisées par la ville de la Rochelle

Diagnostic des établissements de la Rochelle  
Appui des associations

**CONSEILS D'INFORMATION ET APPROPRIATION PAR LES USAGERS**

- Outil d'information sur la qualité de l'air intérieur
- Guide d'information sur la qualité de l'air intérieur
- Présentation aux parents et enseignants des écoles et collèges
- Utilisation d'outils de mesure de la qualité de l'air intérieur

Appui des associations  
Mise en œuvre des mesures correctives

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**QUALITÉ DE L'AIR INTÉRIEUR**

ClimACT

Merci de votre attention

Service Santé Publique et Environnement

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## Presentation C. Mandin



**Qualité de l'air intérieur dans les écoles : une approche globale**

Caroline Mandin  
La Rochelle  
9 février 2018

CSTB ClimACT




**Environnement intérieur, santé et apprentissage scolaire**

CEPA

Environnement intérieur et santé  
Building and Environment 2015

An assessment of indoor environmental quality in schools and its association with health and performance  
Ulla Rönnerd Sharpsham <sup>1,2</sup>, Robert S Sharpsham <sup>1,2</sup>, Eugene C Cole <sup>1</sup>, Helena Koller <sup>1,2</sup> (eds.), Stockholm, Sweden 2015

2015  
Do indoor (pollutant and thermal) conditions in schools influence student performance? A critical review of the literature



**Une approche nécessairement globale**

Pour autant :

- Peu de données à l'échelle du parc des écoles en France
- Données le plus souvent limitées à quelques paramètres : benzène, formaldéhyde
- Données limitées à quelques territoires

**Campagne nationale de l'Observatoire de la qualité de l'air intérieur menée entre 2013 et 2017**



**Constitution d'un échantillon représentatif des écoles en France**

Base de sondage du Ministère de l'Éducation nationale  
Stratification sur la zone climatique, le type d'écoles (maternelle ou élémentaire) et le type d'environnement (urbain ou rural)  
Tirage au sort à 3 degrés : zone d'enquête > école > classe



500 écoles > 1000 classes interrogées



**Mesures réalisées (1/2)**

Pendant une semaine (Lu-Ve) dans 2 salles de classe

- Mesures en continu de la température, de l'humidité relative, du dioxyde de carbone, des particules fines et du bruit
- Mesure ponctuelle des niveaux d'électromagnétisme et des champs électromagnétiques
- Prélèvements passifs : COV, aldéhydes et NO<sub>2</sub>
- Prélèvements actifs pour les COV (passives, passives, mélanges de flamme brûlée, etc.), les particules (mauve)
- Détermination de l'indice de contamination fongique




**Mesures réalisées (2/2)**

- Poussières déposées au sol : COSV, métaux dont le plomb
- Poussières des matelas : allergènes de chat, de chien et d'acariens
- Plomb dans les peintures





**Premiers éléments relatifs aux CEM**

Prendre en compte les données brutes en ligne par Carte de France  
Données non redressées présentées à titre illustratif

| Données        | Indicateur | Unité | France | France | France | France |
|----------------|------------|-------|--------|--------|--------|--------|
| Données (en %) | 10         | ---   | 0,11   | 0,01   | 0,01   | 0,01   |
| Données (en %) | 100        | ---   | 0,11   | 0,01   | 0,01   | 0,01   |
| Total des Vies | 100        | ---   | 0,11   | 0,01   | 0,01   | 0,01   |

Le niveau limite de 28 µg/m<sup>3</sup> et le niveau d'attention de 8 µg/m<sup>3</sup> ne sont jamais dépassés.

**Les suites**

- Définir la QAI et le confort à l'échelle du parc des écoles en France
- Mettre en perspective la qualité des environnements intérieurs avec les variables descriptives des bâtiments et des activités → recherche des déterminants
- Etude croisée de la QAI et du bruit (par exemple)
- Formulations de recommandations et bonnes pratiques pour l'amélioration de la qualité des ambiances scolaires

Présentation des résultats QAI et confort lors du prochain Atelier de l'OQAI, Paris, Juin 2018

**Une approche globale**

- S'intéresser aux sources
- ET à la ventilation

**Produits d'entretien (1/3)**

- Phase pilote de la surveillance réglementaire (2009-2011) : collecte des références des produits d'entretien utilisés dans les 310 écoles et crèches étudiées et des pratiques de nettoyage
- 504 références commerciales différentes utilisées dans ces établissements. De 1 à 7 produits utilisés par établissement : 3 ou 4 en moyenne.
- Seules 218 fiches de données de sécurité sont disponibles
- Dans ces fiches, 152 substances différentes sont recensées
- Parmi ces substances :
  - 40 % sont classées « très toxiques » (classification européenne)
  - 5 % sont classées « extrêmement toxiques » (classification européenne)
  - 2 % sont classées « très toxiques » (classification européenne)
- Les pratiques de nettoyage sont par ailleurs plutôt « favorables » : classes aérées pendant le ménage, ménage réalisé en fin de journée par ex.

Source : Hérault, 2010, 2011

**Produits d'entretien (2/3) : Moment du nettoyage**

Source : Hérault, 2010, 2011

**Produits d'entretien (3/3) : Aération pendant le nettoyage**

| Matérielles (n=331) | Non | Ouvert | Mixte | Verrouillé |
|---------------------|-----|--------|-------|------------|
| Remarque            | 10  | 10     | 10    | 10         |
| Remarque            | 10  | 10     | 10    | 10         |
| Remarque            | 10  | 10     | 10    | 10         |
| Remarque            | 10  | 10     | 10    | 10         |

| Matérielles (n=331) | Non | Ouvert | Mixte | Verrouillé |
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| Remarque            | 10  | 10     | 10    | 10         |
| Remarque            | 10  | 10     | 10    | 10         |
| Remarque            | 10  | 10     | 10    | 10         |
| Remarque            | 10  | 10     | 10    | 10         |

Source : Hérault, 2010, 2011





## Un renouvellement d'air souvent insuffisant

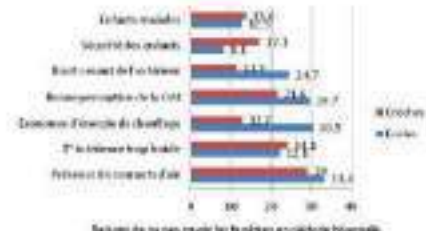
- 15 % des écoles sont équipées d'une VMC ; 5 % dans toutes les classes (DREAL, 2011)\*
- 40 % des crèches disposent d'une VMC
- Dans les écoles, le renouvellement de l'air repose principalement sur l'ouverture des fenêtres.
- Mais celle-ci est insuffisante ou peu pratiquée (occasionnelle) dans 56 % des écoles

\*Enquête au sein de 1000 établissements (y compris les Régions) de l'ordre de 1000m²

Document DREAL / La Direction Régionale de l'Environnement, de l'Aménagement et du Développement / 2011 (données actualisées)



## Les freins à l'aération



(DREAL, 2011)

100 établissements et 600 personnes de chaque

Document DREAL / La Direction Régionale de l'Environnement, de l'Aménagement et du Développement / 2011 (données actualisées)



## En conséquence : des espaces confinés

- Des niveaux de confinement non négligeables observés lors de la phase pilote de la surveillance de l'air intérieur dans les ERP (2009-2011) : n = 310 écoles et crèches, France entière

| Indice ICONE    | Tous   | Crèches | Maternelles | Élémentaires |
|-----------------|--------|---------|-------------|--------------|
| 0               | 14 %   | 25 %    | 17 %        | 8,4 %        |
| 1               | 18 %   | 30 %    | 24 %        | 9,7 %        |
| 2               | 12 %   | 23 %    | 30 %        | 18 %         |
| 3               | 20 %   | 17 %    | 20 %        | 19 %         |
| 4               | 20 %   | 8,7 %   | 9,1 %       | 11 %         |
| 5               | 16,9 % | 6,9 %   | 9 %         | 14,3 %       |
| Moyenne         | 1,9 %  | 0,1 %   | 0,7 %       | 1,2 %        |
| Nombre d'écoles | 310    | 157     | 101         | 400          |

(Barral et al., International Journal of Ventilation 2013)

Document DREAL / La Direction Régionale de l'Environnement, de l'Aménagement et du Développement / 2011 (données actualisées)



CSTB  
Centre Scientifique et Technique  
du Bâtiment

## Merci de votre attention !

Pour plus d'informations :

[www.osai.fr](http://www.osai.fr)

[corinne.mandie@cstb.fr](mailto:corinne.mandie@cstb.fr)

Remerciements  
aux Financiers  
de l'OSAI :



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Document DREAL / La Direction Régionale de l'Environnement, de l'Aménagement et du Développement / 2011 (données actualisées)



## **REPORT OF STAKEHOLDER SESSION**

**Minutes: 8<sup>th</sup> February 2018**

**Venue: Institute of Technology, 15 Rue François de Vaux de Foletier, 17000 La Rochelle**

### **Attendees (in alphabetical order)**

See signature sheets below

### **Agenda of the session**

- 4:30 Opening – Presentation of the ClimACT project
- 4:40 Overview of indoor air quality in the 35 pilot schools of the Climact project - P. Blondeau, LasIE / Université de La Rochelle
- 5:10 Initiatives to provide healthy indoor air in La Rochelle nursery and primary schools - B. Cormerais, Direction Santé Publique et Accessibilité de la Ville de La Rochelle
- 5:40 Indoor environment quality in schools, an integrated approach: indoor air quality, noise and electromagnetic fields - C. Mandin, Observatoire de la Qualité de l’Air Intérieur
- 6:10 Open discussion
- 6:30 Conclusion and cocktail party

### **Minutes of the session**

The theme of the stakeholder meeting was Indoor Environment Quality in Schools. ULR and VLR organized the meeting at the Institute of Technology (IUT), which is one of the nine French pilot schools. Forty-four persons representing a very large variety of stakeholders attended the event: teachers, researchers, students, elected representatives, technical managers, person in charge of hygiene and safety in schools, HVAC engineers, environmental engineers, etc. The stakeholder meeting was organised as a joint stakeholder and focus group meeting as a way to present results and to promote ideas of actions to take in schools as a way to improve comfort and indoor air quality.

The first objective of the stakeholder meeting was to present the results of the IAQ and ventilation measurements that were carried out in the ClimACT pilot schools, with a focus on French schools (Patrice Blondeau’s speech). However, the meeting was also an opportunity to broaden the discussion by presenting two related projects. First of them was actions taken by the city of La Rochelle to improve IAQ in primary and nursery schools (Béatrice Cormerais’ presentation). The second one dealt with measurements of IAQ, noise and electromagnetic fields in the frame of a national survey of indoor environment quality in schools (speech given by the invited speaker Corinne Mandin, from CSTB). Each of the three presentations lasted for 20 minutes. Ten minutes sessions of questions and discussions followed before a general discussion on possible actions took place (focus group meeting).

## **1. Welcome and opening**

Céline Berthier (City of La Rochelle) chaired the meeting. As an opening, she made a brief presentation of the ClimACT project, agenda and objectives of the meeting.

## **2. Overview of the discussion**

The following points were addressed at the end of the speeches:

When discussing TVOC concentration peaks during the occupancy periods of the classrooms, someone suggested that a significant part of the emissions to the indoor air might originate from second-hand tobacco smoke in high schools and universities (i.e. VOCs that adsorb on clothes and hair when students are smoking, and then desorb from surfaces when the students are in the classrooms). This is a likely assumption, indeed.

Some teachers noted that they would be willing to open the windows more often during classes, but it is practically impossible for technical reasons (many windows cannot open).

Questions aroused about the periods when windows should preferentially be opened, i.e. occupancy periods or breaks. Experiments conducted by the City of La Rochelle in the frame of the Impactair project showed that window openings have a big but short-term impact on CO<sub>2</sub> concentrations. Therefore, based on CO<sub>2</sub> and energy, it is more efficient to open windows more often but for short times.

Many teachers and technical managers showed great interest in having Class'Air CO<sub>2</sub> sensors in their schools. ULR and VLR provided information about the cost and the way they are working.

Among the possible solutions to control indoor air quality, somebody asked the question of the relevance of installing air-cleaning materials in schools. P. Blondeau answered that these materials divide into two categories and only sportive materials should be considered. Moreover, materials tested according to standards shall be preferred as a way to be able to assess the possible improvement of IAQ. The crux of the matter is nevertheless the lifetime of these materials, in terms of adsorption capacity. The lifetime included on the commercial documentations are determined based on theoretical considerations. They have not been verified so far. Finally, the cost is also significantly higher.

Many people keep thinking that indoor quality directly relates to the outdoor air pollution, which is obviously wrong. C. Mandin answered a question about the impact of traffic and oil regulations on indoor quality by saying that lead is no longer detected in the indoor air, indoor benzene concentrations are lower than they were some time ago, but nitrogen dioxide is still an indoor quality issue. An attendee who had recently worked in the suburbs of Paris noted that benzene concentrations that he measured in some schools there were pretty higher than those measured in the ClimACT pilot schools.

C. Mandin's presentation of measurements of electromagnetic fields in schools called for many questions, although any value exceeded the guidelines in the French schools investigated. C. Mandin and B. Cormerais indicated the procedure to apply for a free diagnosis in a building. They also

underlined that the results of all the measurements made by the accredited agency are open to the public on the web. An attendee also highlighted that the question of electromagnetic field might be a more serious issue in secondary and university schools than in primary schools due to the large majority of students having a cellular phone.

Attendees asked for information about the mandatory measurements of indoor air quality in schools, which will extend to secondary schools by 2020.

### **3. Conclusions**

The event has been a success considering the number and variety of attendees. The presentations and discussions were the opportunity to present the results of IAQ measurements as a whole (stakeholder / LCC meetings had previously taken place at IUT and Dautet high school to present specific results). They also contributed to raise awareness on indoor air quality on the one hand, and to insist on the fact that the challenge is not only to decrease energy consumption and CO<sub>2</sub> emissions, but to conciliate energy savings, indoor air quality and comfort. The focus group meeting that followed also allowed understanding and facing the practical constraints of all kinds of stakeholders represented.

### **4. AOB**

One student from Dautet high school, Miss Maroussia Rayner, attended the meeting. She contacted P. Blondeau few days later to ask for a CO<sub>2</sub> sensor as she decided to present indoor air pollution as the topic of her free presentation to the jury for the Baccalaureat.

#### **Action Points**

Two schools (IUT and Dautet) asked to conduct experiments consisting in installing ClassAir CO<sub>2</sub> sensors in classrooms as a way to encourage window openings and reduce air stuffiness. ULR purchased four of these sensors. It will provide the schools with them.

The measurements revealed high air stuffiness in building N of high school Dautet. A mechanical ventilation system will be installed next summer.

Pictures of the session





## Signature lists

Atelier « Qualité de l'air dans les établissements scolaires », IUT de La Rochelle, 8 Février 2018

 ClimACT

| Nom Prénom         | Organisme            | e-mail                       | Signature  |
|--------------------|----------------------|------------------------------|--|
| ① BEAUDEAU Patrice | Univ. La Rochelle    | patrice.blanchard@univ-lr.fr |  |
| ② BERNIERE Céline  | Ville de La Rochelle | prophete-nature@ville-lr.fr  |   |
| ③ MAUDIN Cécilia   | CLTR                 | cecilia.maudin@cltr.fr       |   |
| ④ BASTINE Corinne  | Ville de La Rochelle | bastine.corinne@ville-lr.fr  |   |
| ⑤ BASSIE Odeline   | Société Sudoe        | Odeline.Bassie@sudoe.fr      |   |
| ⑥ AODIC Marc       | Univ. La Rochelle    | marc.aodic@univ-lr.fr        |   |
| ⑦ LE MEUR Jérôme   | "                    | jlemer@univ-lr.fr            |   |
| ⑧ MAROINNE Emile   | Ville de La Rochelle | —                            |   |
| ⑨ BOUET Gilles     | Ville de Buzay       | gilles.bouet@ville-buzay.fr  |   |

| Nom Prénom            | Organisme                 | e-mail                            | Signature   |
|-----------------------|---------------------------|-----------------------------------|---|
| ① GUYON Aurélie       | IREPS NA                  | a.guyon@ireps-na.org              |  |
| ② REY Pauline         | Lygis Douctit             | paulline.rey@lygis.com            |   |
| ③ SEIGNEURIN Adèle    | IUT La Rochelle           | adeline.seigneurin@iut-lr.fr      |    |
| ④ MARCILLATON Capella | Département de la Gironde | capella.marcillaton@de.gironde.fr |    |
| ⑤ LAFRESSES Aurélie   | Département 17            | aurélie.lafresses@de.17.fr        |    |
| ⑥ REINÉ Thomas        | Universités de Bordeaux   | thomas.reine@univ-bordeaux.fr     |    |
| ⑦ JONSSON Linnéa      | Paris de la Vallée        | linnea.jonsson@paris-vallee.fr    |    |
| ⑧ MERVILLEAU Noémie   | Lygis Douctit             | noemie.mervilleau@lygis.com       |    |
| ⑨ GUYON Marc          | Le Petit Breoulleau       | marc.guyon@le-petit-breoulleau.fr |    |

Atelier « Qualité de l'air dans les établissements scolaires », IUT de La Rochelle, 8 Février 2018


 ClimACT

| Nom Prénom               | Organisme               | e-mail                        | Signature   |
|--------------------------|-------------------------|-------------------------------|---|
| (18) MARTEL Paul         | Université LR           | paul.martel@univ-lr.fr        |  |
| (19) HUBERT Mehdi        | Univ La Rochelle        | mehdi.hubert@univ-lr.fr       |   |
| (20) PELLERIN Simon      | ATMO Nouvelle-Aquitaine | sp@atmo-nouvelle-aquitaine.fr |    |
| (21) GATIQUEN Sylvie     | Parc de la Rochelle     | sylvie.gatiquen@univ-lr.fr    |    |
| (22) BARRAUD Emilien     | IUT La Rochelle         |                               |    |
| (23) DEHOVE Arson        | Universités LR          |                               |    |
| (24) Evola M. Etienne    | Maître LR               |                               |    |
| (25) GETHAMU Ogele       | Polyculture de Juive    |                               |    |
| (26) MASSIVET D. Schmitt | Mairie Thoiré           | dmasivet@thoires.fr           |    |

Atelier « Qualité de l'air dans les établissements scolaires », IUT de La Rochelle, 8 Février 2018


**ClimACT**

| Nom Prénom          | Organisme                  | e-mail                       | Signature   |
|---------------------|----------------------------|------------------------------|---|
| ② RAVNER Marianne   | lycée Jean Dautet          | marianne.ravner@laposte.fr   |  |
| ③ GRAMINE Gaëlle    | UNIV LA                    | gaëlle.gramine@univ-la.fr    |   |
| ④ DESVALLAIS Adrien | lycée Jean Dautet          | adrien.dessvalais@laposte.fr |    |
| ⑤ DECERIE Jeanne    | Ecole primaire Beaumais    | jeanne.decerie@laposte.fr    |    |
| ⑥ DORVILLE Frédéric | lycée Dautet               | frederic.dorville@laposte.fr |    |
| ⑦ GILLES Savin      | VLR - Sept-9               | gilles.gilles@laposte.fr     |    |
| ⑧ DUTHIER Lion      | PMI Nouvelle-Aquitaine     | lion.duthier@laposte.fr      |    |
| ⑨ GIRAUDON Fabien   | Ville de Rochelle          | fabien.giraudon@laposte.fr   |    |
| ⑩ Le Dellec Fanny   | lycée Dautet et CHSCT D 17 | fanny.le-dellec@laposte.fr   |    |

Atelier « Qualité de l'air dans les établissements scolaires », IUT de La Rochelle, 8 Février 2018

| Nom Prénom            | Organisme                              | e-mail                      | Signature |
|-----------------------|--|-----------------------------|-----------|
| ① MEERON Hugo         | Lycee Duval                            | zackmoulay@univ-lr.fr       | Hugo      |
| ② Polley Clement      | Univ - LR                              | cpolley@univ-lr.fr          | Pol       |
| ③ Vivier Guillaume    | Ville La Rochelle                      |                             |           |
| ④ M. Eliezerka Victor | Ville de l'Agglomération               | B. eliezerka@univ-lr.fr     |           |
| ⑤ LUPIN Hugo          | Bureau d'étude                         | hugo.lupin@univ-lr.fr       |           |
| ⑥ NOTARD DENIS        | Ville de La Rochelle                   | denis.notard@univ-lr.fr     |           |
| ⑦ BOATIN Bernard      | Sec. Environnement<br>C.A. La Rochelle | bernard.boatin@univ-lr.fr   |           |
| MICHAUX Ghislain      | Univ LR                                | ghislain.michaux@univ-lr.fr |           |



## Presentation C. Berthier (opening)

Interreg  
Sudoe

ClimACT

Atelier QAI – présentation ClimACT

Cécile Berthier – service Nature & Paysage  
Ville de La Rochelle

Forum Sudoe et les projets co-financés par l'Union Européenne et les régions de la région Sudoe

www.climact.net

Qu'est-ce que le projet ClimACT

• Un projet européen de l'Agence Interreg Sudoe

Région Sud-ouest de l'Europe

www.climact.net

Les partenaires ClimACT

• Les partenaires de l'Agence Interreg Sudoe  
• Economie faible carbone

Objectif : Proposer des outils, d'aide à la décision et éducatifs, aux établissements scolaires afin d'encourager la transition vers une économie faible carbone.

Juillet 2016 → Juillet 2016

www.climact.net

Les écoles du projet ClimACT

• 33 écoles pilotes en France  
• 4 pays concernés : France, Espagne, Portugal, Gibraltar

En France :

• 9 écoles pilotes à La Rochelle  
• 6 écoles primaires  
• 2 lycées  
• 1 RUT

www.climact.net

Les actions ClimACT

• Plateforme interactive  
• Formation en E-learning  
• Ressource éducative  
• Mise en relation des acteurs

www.climact.net

Les actions ClimACT

• Plateforme interactive  
• Formation en E-learning  
• Ressource éducative  
• Mise en relation des acteurs

• Actions dans les écoles  
• Plan d'actions par année scolaire  
• Comité de pilotage multi-acteurs  
• Proposition d'activités pédagogiques

www.climact.net

### Les actions ClimACT

- Plateforme Internet
  - Formation en E-learning
  - Ressource éducative
  - Mise en relation des acteurs
- Action dans les écoles
  - Plan d'action par école-scolaire
  - Comité de pilotage multi-acteurs
  - Proposition éducative
- Audio techniques
  - Réalisé par les partenaires
  - Création d'outils d'analyse des données
  - Energie, eau, déchets, alimentation, espaces verts, mobilité, qualité de l'air

20 mars 2020

www.climact.net

### Communication ClimACT

Facebook: @CLIMACTSUDOE  
Instagram: @Climact  
LinkedIn: Interreg.SUDOE.ClimACT

CLIMACT  
#interreg  
@interreg.sudoeurope  
@climact\_sudoe

**www.climact.net**

20 mars 2020

www.climact.net

### ClimACT – Atelier QAI 8 février 2020

- Résultat des ateliers ClimACT concernant la QAI
  - Université de La Rochelle
- Ateliers de la ville pour améliorer la QAI - IMPRCQAI
  - E. Garmier, Directeur Général Adjoint de la Ville de La Rochelle
- Résultats de la pré-congrégation nationale "Écoles" pour la QAI
  - C. Rivière, Directeur de la Direction de l'Éducation

20 mars 2020

www.climact.net

### ClimACT – Atelier QAI 8 février 2020

- 16:30 Interventions
- 18:10 Discussion
- 18:30 Cocktail

20 mars 2020

www.climact.net

Interreg  
Sudoe

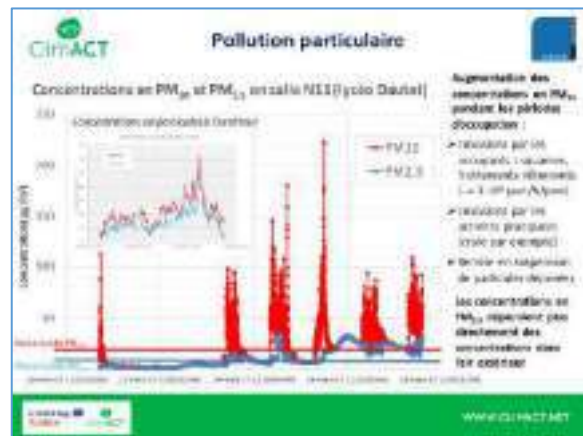
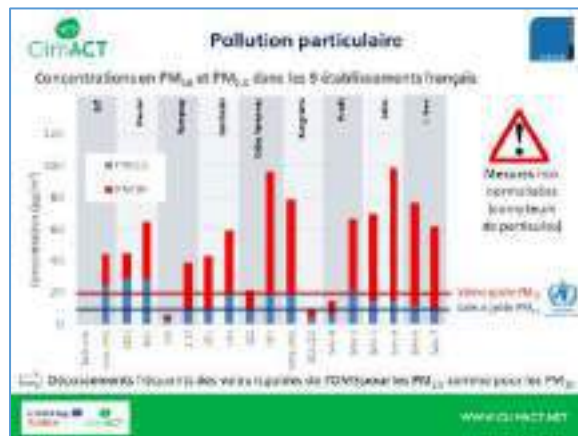
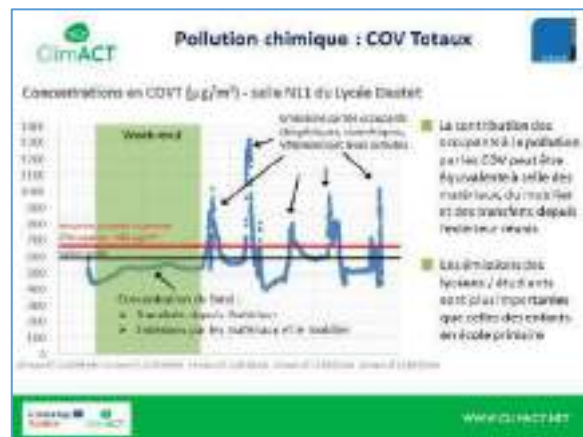
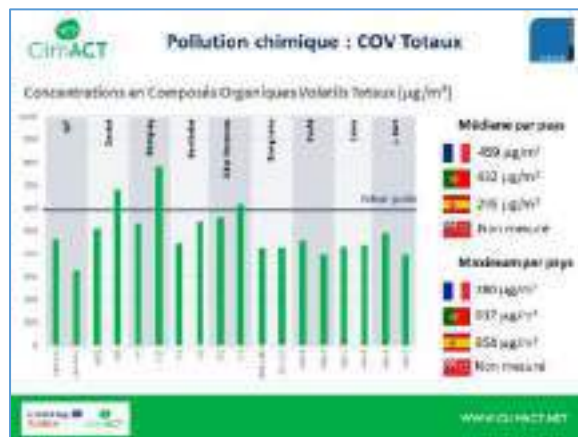
**ClimACT**

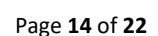
To encourage the transition to Low Carbon Schools through the development of technical and educational tools and activities

www.climact.net









## Presentation B. Cormerais



QUALITÉ DE L'AIR INTÉRIEUR EN SAVOIR PLUS POUR AGIR

### Origine et contexte local

- Dynamiques encouragées par la Ville de La Rochelle :
  - Membre du Réseau Français des Villes Saines de l'OMS
  - Qualité de l'air intérieure :
    - Intégration campagne pilote écoles et crèches : mesures test dont une école de la ville + actions de sensibilisation (2010 - 2013)
    - Prem QAI depuis 2011
    - Motivité de mettre en place une stratégie pour améliorer la QAI et sensibiliser les acteurs
  - Maintien des mesures de QAI malgré assouplissement de cadre réglementaire
- Appel à projet AXCT AIR - IMPACTAIR - INCTAIR

QUALITÉ DE L'AIR INTÉRIEUR EN SAVOIR PLUS POUR AGIR

### Objectifs d'IMPACTAIR

- Objectif global : Répondre à un enjeu de santé publique en améliorant la qualité de l'air intérieur (QAI) dans les établissements scolaires et les crèches
- Objectifs opérationnels :
  - Mieux comprendre la situation des établissements de La Rochelle et les déterminants de la QAI
  - Renforcer les connaissances sur les sources de pollution et les différents déterminants dynamiques de ces derniers
  - Tester l'effet de différentes stratégies d'action sur la qualité de l'air
  - Guides des occupants des bâtiments pour une meilleure gestion de la QAI
  - Identifier des plans d'action pour la Ville et accompagner les acteurs et décideurs locaux



QUALITÉ DE L'AIR INTÉRIEUR EN SAVOIR PLUS POUR AGIR

### Résultats clés de la phase de surveillance

- Bien-être : pas de situation préoccupante à La Rochelle mais quelques cas à surveiller (proximité d'axes de circulation importante)
- Index de confinement : pas de situation préoccupante ; pas de problèmes de confinement plus importants dans les crèches
- Formis (type) :
  - Aucune situation préoccupante
  - Aucune situation préoccupante en termes d'atteinte des objectifs à long terme : une majorité de valeurs de la valeur cible ( $0,1 \mu\text{g}/\text{m}^3$ ) et la valeur guide ( $0,2 \mu\text{g}/\text{m}^3$ )
  - Deux cas préoccupants : bâtiments classés avec une attention portée sur les matériaux à faible émission de COV et/ou la ventilation
  - Des disparités importantes entre établissements et écoles / DUS / DIF







**QUALITÉ DE L'AIR INTÉRIEUR** **EN SAVOIR PLUS POUR AGIR**

Actions déjà réalisées par la ville de la Rochelle

Diagnostic des établissements de la Rochelle  
Appui des associations  
Intégration des données  
Mise en œuvre des mesures correctives

**ACCORD**

- Collège d'experts pour les établissements de santé, écoles et de formation des adultes

**ENTRETIEN DES LOCALS**

- Révision et mise à jour des protocoles d'entretien des locaux et des équipements, et accompagnement
- Contrôle de l'efficacité des points de ventilation dans les écoles
- Nettoyage à l'eau tiède dans 2 groupes scolaires
- Mise en œuvre des protocoles d'entretien des locaux, produits labellisés (ecocert), tout en assurant la qualité de l'entretien des locaux

Qualité de l'air intérieur  
ICL ON AGIT

**QUALITÉ DE L'AIR INTÉRIEUR** **EN SAVOIR PLUS POUR AGIR**

Actions déjà réalisées par la ville de la Rochelle

Diagnostic des établissements de la Rochelle  
Appui des associations

**VERIFICATION DES DISPOSITIFS DE VENTILATION ET MESURES CORRECTIVES**

Optimisation des dispositifs de ventilation avec des mesures correctives

Qualité de l'air intérieur  
ICL ON AGIT

**QUALITÉ DE L'AIR INTÉRIEUR** **EN SAVOIR PLUS POUR AGIR**

Actions déjà réalisées par la ville de la Rochelle

Diagnostic des établissements de la Rochelle  
Appui des associations

**CONSEILS D'INFORMATION ET APPROPRIATION PAR LES USAGERS**

- Outil d'information sur la qualité de l'air intérieur
- Guide d'information sur la qualité de l'air intérieur des locaux d'habitat - Affiche
- Présentation aux personnels municipaux des écoles et des collèges
- Utilisation d'outils numériques pour l'information des usagers

Qualité de l'air intérieur  
ICL ON AGIT

**QUALITÉ DE L'AIR INTÉRIEUR**

Qualité de l'air intérieur  
ICL ON AGIT

Merci de votre attention

Service Santé Publique et Environnement









**Premiers éléments relatifs aux CEM**

Prendre en compte les données brutes en ligne par Carte de France  
Données non redressées présentées à titre illustratif

| Données        | Indicateur | Unité | France | France | France | France |
|----------------|------------|-------|--------|--------|--------|--------|
| Données (en %) | 10         | ---   | 0,11   | 0,01   | 0,01   | 0,01   |
| Données (en %) | 100        | ---   | 0,11   | 0,01   | 0,01   | 0,01   |
| Total des Vies | 100        | ---   | 0,11   | 0,01   | 0,01   | 0,01   |

Le niveau limite de 28 µg/m<sup>3</sup> et le niveau d'attention de 8 µg/m<sup>3</sup> ne sont jamais dépassés.

**Les suites**

- Définir la QAI et le confort à l'échelle du parc des écoles en France
- Mettre en perspective la qualité des environnements intérieurs avec les variables descriptives des bâtiments et des activités → recherche des déterminants
- Etude croisée de la QAI et du bruit (par exemple)
- Formulations de recommandations et bonnes pratiques pour l'amélioration de la qualité des ambiances scolaires

Présentation des résultats QAI et confort lors du prochain Atelier de l'OQAI, Paris, Juin 2018

**Une approche globale**

- S'intéresser aux sources
- ET à la ventilation

**Produits d'entretien (1/3)**

- Phase pilote de la surveillance réglementaire (2009-2011) : collecte des références des produits d'entretien utilisés dans les 310 écoles et crèches étudiées et des pratiques de nettoyage
- 504 références commerciales différentes utilisées dans ces établissements. De 1 à 7 produits utilisés par établissement : 3 ou 4 en moyenne.
- Seules 218 fiches de données de sécurité sont disponibles
- Dans ces fiches, 152 substances différentes sont recensées
- Parmi ces substances :
  - 40 % sont classées « très toxiques » selon la classification européenne
  - 5 % sont classées « extrêmement toxiques » selon la réglementation de l'UE
  - 2 % sont classées « extrêmement toxiques » selon la réglementation de l'UE
- Les pratiques de nettoyage sont par ailleurs plutôt « favorables » : classes aérées pendant le ménage, ménage réalisé en fin de journée par ex.

Source : Hout et al. (2011)

**Produits d'entretien (2/3) : Moment du nettoyage**

Source : Hout et al. (2011)

**Produits d'entretien (3/3) : Aération pendant le nettoyage**

| Matérielles (n=331) | Non | Ouvert | Modifié | Modifié |
|---------------------|-----|--------|---------|---------|
| Produit             | 10  | 10     | 10      | 10      |
| Après               | 10  | 10     | 10      | 10      |
| Pas d'aération      | 1   | 4      | 2       | 2       |
| Pas de réponse      | 10  | 10     | 10      | 10      |

| Matérielles (n=331) | Non | Ouvert | Modifié | Modifié |
|---------------------|-----|--------|---------|---------|
| Produit             | 10  | 10     | 10      | 10      |
| Après               | 10  | 10     | 10      | 10      |
| Pas d'aération      | 1   | 4      | 2       | 2       |
| Pas de réponse      | 10  | 10     | 10      | 10      |

Source : Hout et al. (2011)



## Un renouvellement d'air souvent insuffisant

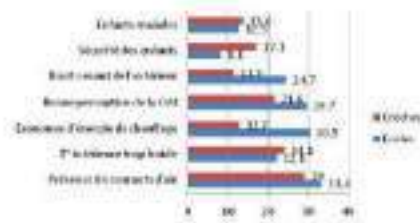
- 15 % des écoles sont équipées d'une VMC ; 5 % dans toutes les classes (DREAL, 2011)\*
- 40 % des crèches disposent d'une VMC
- Dans les écoles, le renouvellement de l'air repose principalement sur l'ouverture des fenêtres.
- Mais celle-ci est insuffisante ou peu pratiquée (occasionnelle) dans 56 % des écoles

\*Enquête au sein de 1000 établissements (y compris les Régions) de la part de DREAL

Document DREAL / La Région Occitanie / Région Occitanie / Région Occitanie / Région Occitanie



## Les freins à l'aération



(DREAL, 2011)

(= 100 établissements et 600 personnes de crèches)

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## En conséquence : des espaces confinés

- Des niveaux de confinement non négligeables observés lors de la phase pilote de la surveillance de l'air intérieur dans les ERP (2009-2011) : n = 310 écoles et crèches, France entière

| Indice ICONE     | Tout   | Crèches | Maternelles | Elémentaires |
|------------------|--------|---------|-------------|--------------|
| 0                | 1,4 %  | 2,5 %   | 1,7 %       | 8,4 %        |
| 1                | 10 %   | 10 %    | 11 %        | 6,7 %        |
| 2                | 12 %   | 2,3 %   | 30 %        | 18 %         |
| 3                | 20 %   | 1,7 %   | 20 %        | 19 %         |
| 4                | 20 %   | 8,7 %   | 9,1 %       | 81 %         |
| 5                | 47,9 % | 6,8 %   | 0 %         | 1,4 %        |
| Qualité de l'air | 1,0 %  | 0,1 %   | 0,0 %       | 1,4 %        |
| Nombre d'écoles  | 310    | 157     | 153         | 400          |

(Barral et al., International Journal of Ventilation 2013)

Document DREAL / La Région Occitanie / Région Occitanie / Région Occitanie / Région Occitanie

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## **Annex 2: Gibraltar**

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## Gibraltar: Presentation of the ClimACT project

### Presentation of the ClimACT project to Department of Education in Gibraltar

UniGib organized two meetings with the representatives of the Department of Education of Gibraltar to present the ClimACT project. The first one took place at 11 o'clock on 19<sup>th</sup> August 2016 in Department of Education, Gibraltar. The second meeting took place at 10 o'clock on December 13<sup>rd</sup>, 2016 in Department of Education, in Gibraltar. Both meetings were attended by 3 and 4 persons, respectively, who held an open discussion on the ClimACT project, the role of the partners and the pilot schools throughout the project's time frame (Table 12 and Table 13).

Table 3 - List of participants in 1<sup>st</sup> UniGib Meeting with Dept. of Education

| Full Name    | Affiliation           |
|--------------|-----------------------|
| Joey Britto  | Director of Education |
| Darren Grech | Deputy Director       |
| Darren Fa    | UniGib                |

Table 4 - List of participants in 2<sup>nd</sup> UniGib Meeting with Dept. of Education

| Full Name       | Affiliation           |
|-----------------|-----------------------|
| Darren Grech    | Director of Education |
| Darren Fa       | UniGib                |
| Krystle Robba   | UniGib                |
| Amaia Fernandez | UniGib                |

At that time, no pictures were taken neither list of attendance signed.

### Presentation of the ClimACT project to Department of Environment in Gibraltar

UniGib organized a meeting with the representatives of the Department of Environment of Gibraltar to present the ClimACT project. This meeting took place at 10 o'clock on August 12<sup>th</sup>, 2016 in Department of Environment, in Gibraltar. This meeting was attended by 2 persons who held an open discussion on the ClimACT project, the role of the partners and the pilot schools throughout the project's time frame (Table 14).

Table 5 - List of participants in Gibraltar' Meeting

| Full Name       | Affiliation               |
|-----------------|---------------------------|
| Catherine Walsh | Department of Environment |
| Amaia Fernandez | UniGib                    |

At that time no pictures were taken neither List of Attendance signed.

## Presentation of the ClimACT project to St. Bernard's First School

UniGib organized one meeting with the representatives of the teachers from St. Bernard's First School. This meeting took place at 13h15 on March 1<sup>st</sup>, 2017 in School's facilities, Gibraltar. This meeting was attended by 5 persons (Table 15 and Figure 39).

Table 6 - List of participants in St. Bernard's First School

| Full Name            | Affiliation  |
|----------------------|--|
| Amaia Fernandez (AF) | University of Gibraltar  |
| Catherine Walsh (CW) | HM GoG Department of the Environment, Heritage and Climate Change (DECC) |
| Denise Chiappe (DC)  | St. Bernard's First School, Head Teacher                                 |
| Desiree Holmes (DH)  | St. Bernard's First School   |
| George Parody (GP)   | University of Gibraltar  |
| Nati Maclaren (NM)   | HM GoG Department of Education (DoE)                                     |

ClimACT - Aiming for the provision to a low carbon economy in schools – development of support tools (SOES/PA/19/032)

Interreg  
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ClimACT

Attendance List

Meeting with Schools - St. Bernard's First School

Date: 01/03/2017      Venue: 3      Activity: 3.1

Start time: 13h15 pm      End time: 14h30 pm

Meeting location (city and country): St. Bernard's First School, Gibraltar

Responsible leader: ☒ DC    ☒ CW    ☐ GP    ☐ NM    ☐ AF

| Organisation            | Name            | E-mail                                    | Signature |
|-------------------------|-----------------|---|-----------|
| Education               | Denise Chiappe  | den.chiappe@stbernards.net                |           |
| Education               | Desiree Holmes  | holmes@gibraltar.net                      |           |
| DECC                    | Catherine Walsh | cath.walsh@gibraltar.gov.gi               |           |
| Education               | Nati Maclaren   | nati.maclaren@gibraltar.gov.gi            |           |
| University              | George Parody   | george.parody@gibraltar.net               |           |
| UNIVERSITY OF GIBRALTAR | Amaia Fernandez | amaia.fernandez@universityofgibraltar.net |           |
|                         |                 |   |           |
|                         |                 |   |           |

ClimACT project co-funded by European Regional Development Fund

Figure 5 - Attendance List assigned of St. Bernard's First School

### Minute of the meeting in St. Bernard's First School

#### 1. Welcome and opening

- Reception of Denise Chiappe at the entrance of the school;
- Official introduction amongst attendees;
- Handing over the ClimACT presentation.

#### 2. Overview of the discussion

- The discussion was opened by GP but in which the rest of the participants had the freedom of step into the presentation as it went along.
- AF explained the framework of this project, the wider international partnership and European funding programme.
- The discussion continued with an overall overview the project, general objectives and educational approach.
- The general structure proposed for the interaction with schools was presented (roles involved in decision, coordination and implementation levels).
- Questionnaire (online and written) and the aim of the environmental audits was discussed. A paper copy of the Under 10-s questionnaire was handed to school members.
- Educational resources were presented and discussed: E-learning materials for teachers and gamification approaches proposed.
- St. Bernard's First school is a new building but is already experiencing some management issues that affect the environmental performance of the school, e.g.:
  - Push-taps run water for too long after cleaning hands;
  - Kids don't know how to use hand dryers are those are on for far too long;
  - Auto-on sensor system of lights is too sensitive and lights are on even when they are not needed (e.g. very sunny day, at night);
  - Light bulbs are very energy-efficient but also very costly to repair (£500 per unit), plus there is lack of expertise locally to replace them;
  - Fire-panels featuring too sensitive sensors triggering alarm too frequently, resulting in a very faulty and inefficient system;
  - Glass panelling design of the building creates an unpleasant greenhouse effect, and windows cannot be opened completely to prevent overheating of the indoor environment;
  - The air circulating system is not fully functional and conventional air conditioning systems had to be installed in top floor;
- The possibility of including year 2 students (42 kids) was discussed, likely to be extended to other school years.
- A proposal of an action plan was discussed and agreed amongst those present in the meeting.
  - Environmental audits and questionnaire to be done before summer;
  - Definition of a small working group within the school;
  - Designation of one contact person within the school to channel communications.

### 3. Conclusions

- There was an agreement on:
  - Overall approach of the ClimACT initiative;
  - Discussing initiative in the next school staff meeting;
  - Determine the level of engagement of the school (nº of school years, etc.);
  - Nominating a contact person.



### ***AOB during the meeting with St. Bernard's First School***

During the session, two pictures were taken and they are presented below.  
No other business was brought to the attention of the attendees.  
AF thanked the school members for attending the meeting and the session was closed.

#### ***Picture of the Session***



**Figure 6 - Participants on the meeting with St. Bernard's First School (I)**



**Figure 7 - Participants on the meeting with St. Bernard's First School (II)**

## Presentation of the ClimACT project to St. Bernard's Middle School

UniGib organized one meeting with the representatives of the teachers from St. Bernard's Middle School. This meeting took place at 2:15 pm on March 1<sup>st</sup>, 2017 in School's facilities, in Gibraltar. This meeting was attended by 5 persons (Table 15 and Figure 39).

Table 7 - List of participants in St. Bernard's Middle School

| Full Name            | Affiliation  |
|----------------------|--|
| Amaia Fernandez (MF) | University of Gibraltar  |
| Catherine Walsh (CW) | HM GoG Department of the Environment, Heritage and Climate Change (DECC) |
| George Parody (GP))  | University of Gibraltar  |
| Kenneth Saez (KS)    | St. Bernard's Middle School, Head Teacher                                |
| Nati Maclaren (NM)   | HM GoG Department of Education (DoE)                                     |

interreg  
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ClimACT

ATTENDANCE LIST

Topic of the meeting: Meeting with Schools - St. Bernard's Middle School

Date: 21/03/2017

Start time: 2:15 pm

Meeting Venue (City and country): St. Bernard's Middle School, Gibraltar

Is this a day leader?

| Organization                   | Name            | E-mail                          | Signature   |
|--------------------------------|-----------------|---------------------------------|-------------|
| DECC                           | Catherine Walsh | cath.walsh@gibraltar.gov.gi     | [Signature] |
| St. Bernard's Middle School    | Kenneth Saez    | kenneth.saez@stbernardschool.gi | [Signature] |
| UNIVERSITY                     | George Parody   | george.parody@unigib.com        | [Signature] |
| HM GoG Department of Education | Nati Maclaren   | nati.maclaren@gibaltargov.gi    | [Signature] |
| University of Gibraltar        | Amaia Fernandez | amaia.fernandez@unigib.com      | [Signature] |
|                                |                 |                                 |             |
|                                |                 |                                 |             |
|                                |                 |                                 |             |

ClimACT project is co-financed by European Regional Development Fund

Figure 8 - Attendance List assigned of St. Bernard's Middle School

### Minute of the meeting in St. Bernard's Middle School

#### 1. Welcome and opening

- Reception of Kenneth Saez at the entrance of the school.
- Official introduction amongst attendees.
- Handing over the ClimACT presentation.

#### 2. Overview of the discussion

- The discussion was opened by GP.

- KS welcomed the environmental assessment because even though St. Bernard's Middle school is a new building it is already experiencing some management issues that affect the environmental performance of the school, e.g.:
  - Under floor heating and cooling system is not the most appropriate for Gibraltar climate;
  - Automatic roof that opens as a cooling system does not function properly;
  - The green roof serves as food for seagulls, so it defeats its purpose
  - Seagulls eat the silicone of window joints so the water runs through and comes in the building when it rains;
  - Pigeons are also a big problem because of nesting and defecations, which are a health risk;
  - Push water-taps and hand blowers don't prove to be efficient as they run water and blow air for far too long;
  - On the positive side, the school is equipped with latest IT technology and features smartboards and touchscreens in classrooms.
- GP explained the framework of this project, the wider international partnership and European funding programme.
- The general structure proposed for the interaction with schools was presented (roles involved in decision, coordination and implementation levels).
- Questionnaire (online and written) and the aim of the environmental audits was discussed.
- A proposal of an action plan was discussed and agreed amongst those present in the meeting:
  - Environmental audits and questionnaire to be done before summer;
  - Designation of one contact person within the school to channel communications and take ClimACT activities forward.

### **3. Conclusions**

- There was an agreement on:
  - Discussing ClimACT initiative in the next school staff meeting;
  - Rolling out the questionnaire in IT lessons;
  - Support the environmental assessment process;
  - Designate a Low Carbon Coordinator.
- Time constraints may prevent further commitment of school staff.

### ***AOB during the meeting with St. Bernard's Middle School***

During the session, two pictures were taken and they are presented below.

No other business was brought to the attention of the attendees.

AF thanked the school members for attending the meeting and the session was closed.

## Picture of the Session



Figure 9 - Participants on the meeting with St. Bernard's Middle School (I)



Figure 10 - Participants on the meeting with St. Bernard's Middle School (II)

## Presentation of the ClimACT project to St. Joseph's First School

UniGib organized one meeting with the representatives of the teachers from St. Joseph's First School. This meeting took place at 9:30 am on March 3<sup>rd</sup>, 2017 in School's facilities, in Gibraltar. This meeting was attended by 7 persons (Table 15 and Figure 39).

Table 8 - List of participants in St. Joseph's First School

| Full Name            | Affiliation  |
|----------------------|--|
| Amaia Fernandez (MF) | University of Gibraltar  |
| Catherine Walsh (CW) | HM GoG Department of the Environment, Heritage and Climate Change (DECC) |
| George Parody (GP))  | University of Gibraltar  |
| Charmain Burgod (CB) | St. Joseph's First School, Head Teacher                                  |
| Elaine Prescott (EP) | HM GoG Department of the Environment, Heritage and Climate Change (DECC) |
| Jeremy Clinton       | St. Joseph's First School  |
| Nati Maclaren (NM)   | HM GoG Department of Education (DoE)                                     |

CLIMACT - Making the 17 Sustainable Development Goals a reality. Development of support tools and LCP (LIFE) projects.

Interreg  
Sudoe  
CLIMACT

Attendance List

Date of the meeting: 03/03/2017  
Time: 09:30  
Location: St. Joseph's First School, Gibraltar

Project: CLIMACT - Making the 17 Sustainable Development Goals a reality. Development of support tools and LCP (LIFE) projects.

Organization / Name / Title / Signature

| Organization              | Name            | Title                  | Signature   |
|---------------------------|-----------------|------------------------|-------------|
| St. Joseph's First School | Charmain Burgod | Head Teacher           | [Signature] |
| DECC                      | Catherine Walsh | Climate Change Officer | [Signature] |
| DECC                      | Elaine Prescott | Climate Change Officer | [Signature] |
| St. Joseph's First School | Nati Maclaren   | Deputy Head Teacher    | [Signature] |
| St. Joseph's First School | Jeremy Clinton  | Teacher                | [Signature] |
| UNIVERSITY                | George Parody   | Lecturer               | [Signature] |

CLIMACT project is funded by European Regional Development Fund

Figure 11 - Attendance List assigned of St. Joseph's First School

## Minute of the meeting in St. Joseph's First School

### 1. Welcome and opening

- Reception of CB at the entrance of the school.
- Official introduction amongst attendees.
- Handing over the ClimACT presentation.

### 2. Overview of the discussion

- The discussion was opened by GP but in which the rest of the participants had the freedom of step into the presentation as it went along.



- AF explained the framework of this project, the wider international partnership and European funding programme.
- The discussion continued with an overall overview the project, general objectives and educational approach.
- The general structure proposed for the interaction with schools was presented (roles involved in decision, coordination and implementation levels).
- Questionnaire (online and written) and the aim of the environmental audits was discussed. A paper copy of the Under 10-s questionnaire was handed to school members.
- St. Joseph's First school was converted from an old police barracks and has undergone some renovations over the years. Even though the building is not at its best conditions, staff try and make the best of their ability by conducting small actions such as:
  - Exploring the installation of solar panels;
  - Encouraging the use of recycling bins, although emptying the bins afterward is an issue since caretakers or cleaners do not have the proper means to dispose the content of the bins;
  - Fire doors have also been identified as a hazard. Kids find it difficult to push and open doors either because the push bar is too high for their height or because it is too hard to push.
- The future possibility of capitalising the Low Carbon Coordinator nominee was discussed. This could evolve into a permanent post in the future.
- Linking ClimACT activities with Young Enterprise initiative was discussed. E.g. linking activities amongst various schools and creating a Big Book that would gather all environmental initiatives happening in Gibraltar schools.
- The possibility of including year 2 students (aged 6) was discussed. Students aged 4 and 5 may be too young to understand some concepts and the questionnaire.
- A proposal of an action plan was discussed and agreed amongst those present in the meeting:
  - Environmental audits and questionnaire to be done before summer;
  - Definition of a small working group within the school;
  - Designation of one contact person within the school to channel communications.

### 3. Conclusions

- There was an agreement on:
  - Overall approach of the ClimACT initiative
  - Discussion initiative in the next school staff meeting.
  - Determinate the level of engagement of the school (school year, class, etc.).
  - Nominating a contact person.

### **AOB during the meeting with St. Joseph's First School**

During the session, two pictures were taken and they are presented below.

No other business was brought to the attention of the attendees.

AF thanked CB and JC members for attending the meeting and the session was closed.



## Picture of the Session



Figure 12 - Participants on the meeting with St. Joseph's First School (I)



Figure 13 - Participants on the meeting with St. Joseph's First School (II)

## Presentation of the ClimACT project to Bayside Comprehensive School

UniGib organized one meeting with the representatives of the teachers Bayside Comprehensive School. This meeting took place at 12:15 pm on March 3<sup>rd</sup>, 2017 in School's facilities, in Gibraltar. This meeting was attended by 7 persons (Table 18 and Figure 48).

**Table 9 - List of participants in Bayside Comprehensive School**

| Full Name                | Affiliation   |
|--------------------------|---|
| Amaia Fernandez (MF)     | University of Gibraltar   |
| Catherine Walsh (CW)     | HM GoG Department of the Environment, Heritage and Climate Change (DECC)                  |
| George Parody (GP))      | University of Gibraltar   |
| Denise Marsden (DM) (CB) | Bayside Comprehensive School, Senior Teacher PSHE (Personal, social and health education) |
| Elaine Prescott (EP)     | HM GoG Department of the Environment, Heritage and Climate Change (DECC)                  |
| Michael Tavares (MT)     | Bayside Comprehensive School, Head Teacher  |
| Nati Maclaren (NM)       | HM GoG Department of Education (DoE)  |

**Figure 14 - Attendance List assigned Bayside Comprehensive School**

### Minute of the meeting in Bayside Comprehensive School

#### 1. Welcome and opening

- Reception of DM at the entrance of the school and heading to MT's office.
- Official introduction amongst attendees.
- Handing over the ClimACT presentation.

## 2. Overview of the discussion

- The discussion was opened by GP but in which the rest of the participants had the freedom of step into the presentation as it went along.
- AF explained the framework of this project, the wider international partnership and European funding programme.
- The discussion continued with an overall overview the project, general objectives and educational approach.
- The general structure proposed for the interaction with schools was presented (roles involved in decision, coordination and implementation levels).
- Questionnaire (online and written) and the aim of the environmental audits were discussed.
- Bayside Comprehensive School lies on a very demanding environment, which has just emphasised some weaknesses:
  - Poor light in office area and classrooms;
  - Noise pollution due to construction works nearby.
- However there has been a strong investment in IT area which has put the school up-to-date IT wise.
- Important to note that staff will try and make the best of their ability to engage in ClimACT initiative by connecting to ongoing actions such as:
  - Feed outputs of the audits into building design of new schools;
  - Plan 1 week to work in different ClimACT themes in the whole school;
  - Link actions to sustainability campaigns such as Clean-up the World campaign, which is held annually;
  - Showcasing learning materials developed at the school, e.g. Big Book, and linking activities with First Schools;
  - MT and DM seemed keen on up-taking some ClimACT ideas like the solar cookers and designing their own board environmental games;
  - Bayside Comprehensive School is also keen on participating in the EU mobility week held annually, which promotes activities for sustainable transport.
- It was also agreed to ask Bayside Comprehensive School teachers if they are doing something to do with sustainability in their subjects, which they could bring into the ClimACT as a good practice showcase.
- A proposal of an action plan was discussed and agreed amongst those present in the meeting:
  - Environmental audits and questionnaire to be done before summer;
  - Definition of a small working group within the school;
  - Designation of one contact person within the school to channel communications.

## 3. Conclusions

- There was an agreement on:
  - Overall approach of the ClimACT initiative.
  - Discussion initiative in the next school staff meeting.
  - Determinate the level of engagement of the school (school year, class, etc.).
  - Nominating a contact person.

### ***AOB during the meeting with St. Joseph's First School***

During the session, two pictures were taken and they are presented below.

No other business was brought to the attention of the attendees.

AF thanked MT and DM members for attending the meeting and the session was closed.

### ***Picture of the Session***



**Figure 15 - Participants on the meeting with Bayside Comprehensive School (I)**



Figure 16 - Participants on the meeting with Bayside Comprehensive School (II)

## Presentation of the ClimACT project to St. Anne's Middle School

UniGib organized one meeting with the representatives of the teachers St. Anne's Middle School. This meeting took place at 1:30 pm on May 3<sup>rd</sup>, 2017 in School's facilities, in Gibraltar. This meeting was attended by 3 persons (Table 19 and Figure 51).

**Table 10 - List of participants in St. Anne's Middle School**

| Full Name            | Affiliation                           |
|----------------------|---------------------------------------|
| Amaia Fernandez (MF) | University of Gibraltar               |
| George Parody (GP)   | University of Gibraltar               |
| Patricia Duarte (PD) | St. Anne's First School, Head Teacher |

**Figure 17 - Attendance List assigned St. Anne's Middle School**

## Minute of the meeting in Bayside Comprehensive School

### 1. Welcome and opening

- Reception of PB at her office.
- Official introduction amongst attendees.
- Handing over the ClimACT presentation.

### 2. Overview of the discussion

- The discussion was opened by AF. St Anne's was keen on the initiative as a result of seen it advertised in local media and seeing other schools involved;
- AF explained the framework of this project, the wider international partnership collaborating under the European funding programme;
- The discussion continued with an overall overview the project, with special focus on the educational approach;
- The online questionnaire was discussed. A paper copy of the questionnaire was presented to PD so she could have an insight of the questions;



- The possibility of a future environmental audit was discussed. They would welcome an environmental audit since the school is sitting on an old building and outcomes from audit would complement the results of the online questionnaire. However, the audit shall be subject to the availability of resources from the DECC, since the Department has already committed auditing other schools that entered into the programme before;
- The possibility of including year 6 and 7 students was discussed. Last year students would leave school the following year and proposed activities will not have the continuity the school is looking for;
- A proposal of an action plan was discussed and agreed amongst the attendees:
  - Designation of one contact person within the school to channel communications;
  - Definition of a small working group within the school;
  - Questionnaire to be conducted in May.

### 3. Conclusions

- There was an agreement on:
  - Overall approach of the ClimACT initiative.
  - Discussion initiative in the next school staff meeting.
  - Determinate the level of engagement of the school (school year, class, etc.).
  - Nominating a contact person – Low Carbon Coordinator.

### *AOB during the meeting with St. Joseph's First School*

During the session, two pictures were taken and they are presented below.

No other business was brought to the attention of the attendees.

AF thanked MT and DM members for attending the meeting and the session was closed.

### *Picture of the Session*



**Figure 18 - Participants on the meeting with St. Anne's Middle School (I)**



Figure 19 - Participants on the meeting with St. Anne's Middle School (II)

## ClimACT – SOE1/P3/P0429

UNIGIB / DOE / DEHCC

### SUSTAINABLE SCHOOLS COMMITTEE MEETING

**Date:**

Wed, 25<sup>th</sup> April 2018

**Time:**

4pm

**Venue:**

University of Gibraltar, Boardroom

**Attendees (in alphabetical order);**

|   |                      |  |
|---|----------------------|--|
| 1 | Sean Ballester (SB)  | Westside School (Co-opted member)  |
| 2 | Amaia Fernandez (AF) | University of Gibraltar  |
| 3 | Denise Marsden (DM)  | Bayside Comprehensive School, Senior Teacher (Pastoral)  |
| 4 | Elaine Prescott (EP) | HM GoG Department of the Environment, Heritage and Climate Change (DEHCC), Assistant Environment Officer |
| 5 | George Parody (GP)   | University of Gibraltar  |
| 6 | Lianne Parral (LP)   | Bishop Fitzgerald Middle School  |
| 7 | Jackie Linares (JL)  | Department of Education (DoE), Education Adviser   |
| 8 | Kevin Wahnnon (KW)   | St. Bernard's First School, Teacher  |

**Proposed agenda points:**

1. Discuss and agree on a general structure for the framework document
2. Action points (small tasks) to be completed by each member before next meeting (e.g. gathering/analysing school audits, developing content for each section of the document, etc.)
3. Next meeting dates

**Outline of the meeting:**

**1. Welcome and opening**

- Welcome of attendees by AF;
- Handing over the Sustainable Schools draft framework.

**2. Review of the framework**

- Conclusions arising from previous meetings had been collected into a **single document**, with the aim of helping to developing the structure and content of the framework;
- The document is in its initial stages, it is very rough, completely **open to discussion** and modifiable;

- In an exercise of trying to move away from 'Eco-Schools', AF suggested to the committee members to check information about **Sustainable Schools Framework UK** at <http://sustainable-schools-alliance.org.uk/sustainable-schools-framework/>;
- The group started reviewing the notes within the document and tried to **group core and optional elements for the different sectors** (first, middle and secondary schools);
- **Core elements** will influence the **Ethos** of the school;
- **Optional elements** will shape **Curricula**;
- The framework has to set **achievable targets** for schools, so that they are encouraged to progress to the next level;
- How the progress will be **assessed** has still to be discussed. The Dept. Education should monitor the progress but schools must keep evidence of activities;
- **Indicators** to help schools monitoring their progress should be provided;
- Schools have to demonstrate **progress every year**, if not, they would go back to the previous level.
- Focus should be put into **Reduce, Reuse, Recycle**;
- A long-term policy should come from the **Dept. Education**. The policy should **tackle issues that are out of the reach of schools**, e.g. green procurement, A+ rated equipment, use of 'organic' cleaning products, purchase or recycling paper, etc. All this should be centrally overseen by the Dept. Education.

### 3. Next meeting dates

- Thurs 10<sup>th</sup> May, 10am, at the University – JL, GP, EP, AF
- Thurs 17<sup>th</sup> May 4pm, at the University – Sustainable Schools Core Committee
- Tues 29<sup>th</sup> May 4pm, at the University – Sustainable Schools Core Committee
- Wed 13<sup>th</sup> June 4pm, at the University – Sustainable Schools Working Party (School representatives)
- Wed 20<sup>th</sup> June 4pm, at the University – NGOs Forum

### 4. AOB

- AF informed attendees that the session with Daniella Tilbury (DT) scheduled for the 22<sup>nd</sup> May had to be cancelled due to an unexpected visit of the University's Chancellor Lord Luce;
- AF to inform DT of the next meeting dates to try and re-schedule the session;
- DM, JL and LP left the session at round 5.30pm, 6pm and 6.30pm respectively;
- The rest of the attendees followed with discussion;

- The session was closed at 7pm.

## 5. Actions Points

- KW, LP and SB to send possible Core (Ethos) and Optional (Curriculum) activities for Bronze, Silver and Gold levels by the 9th May);
- EP and AF to check audit inputs that could form part of the framework;
- JL to make the call for Working Party;
- AF to make the call for the NGOs;
- AF to keep the core group informed of any updates.

## 6. List of attendees

ClimACT - Acting for the transition to a low carbon economy in schools - development of support tools (SC11/PS/P0429)

interreg Sudoe ClimACT

**Attendance List**

Title of the meeting: Sustainable Schools Gibraltar

Date: 25 / 04 / 2018 WP# 4 / 5 Activity n.º: 1.2 / 3.1

Start time: 16:00 End time: 19:00

Venue: University of Gibraltar (Boardroom)

Beneficiary Leader: ☐ IST ☐ ISQ ☐ ED-GREEN ☐ ABAE ☐ CIEMAT  
☐ USE ☐ UIR ☐ VLR ☒ UNIGIB

In attendance/over:

| Surname   | Name   | Organisation/School                  | E-mail  | Contact Number | Signature   |
|-----------|--------|--------------------------------------|---|----------------|---|
| Ballester | Sean   | Westside School                      | s_ballester@outlook.com;<br>s.ballester@westsideschoolgibraltar.com | 54003245       |   |
| Fernandez | Amelia | University of Gibraltar              | amelia.fernandez@unigib.edu.gi                                      | 54015116       |  |
| Lineros   | Jackie | Dep of Education (Education Adviser) | jackie.lineros@gibraltar.gov.gi                                     | 56000321       |  |
| Marsden   | Denise | Boyside                              | dmarsden@boysideschoolgibraltar.gi                                  | 54863000       |  |

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ClimACT - Acting for the transition to a low carbon economy in schools - development of support tools (SOE1/P3/0429)

| Surname  | Name   | Organisation/School                                   | E-mail  | Contact Number | Signature |
|----------|--------|---|---|----------------|-----------|
| Parody   | George | University of Gibraltar                               | geopar@gibtelecom.net;<br>george.parody@unigib.edu.gi   | 54007728       |           |
| Parral   | Lianne | Bishop Fitzgerald Middle School                       | lmparral@gmail.com  | 54017033       |           |
| Prescott | Elaine | Dep. Environment, Heritage and Climate Change (DEHCC) | elaine.prescott@gibraltar.gov.gi  | 54004530       |           |
| Wahnon   | Kevin  | St. Bernard's First School                            | <del>george.wahnon@gibtelecom.net</del><br>kevinwahnon@gmail.com<br>kevin.wahnon@education.gov.gi | 54022741       |           |

## 7. Photos of attendees



From left to right: EP, SB, LP



From left to right: GP, JL, DM, KW

## ClimACT – SOE1/P3/P0429

UNIGIB / DOE / DEHCC

### SUSTAINABLE SCHOOLS COMMITTEE MEETING

**Date:**

Thurs, 17<sup>th</sup> May 2018

**Time:**

4pm

**Venue:**

University of Gibraltar, Boardroom

**Attendees (in alphabetical order, by surname);**

|   |                      |  |
|---|----------------------|--|
| 1 | Sean Ballester (SB)  | Westside School (Co-opted member)  |
| 2 | Amaia Fernandez (AF) | University of Gibraltar  |
| 3 | Jackie Linares (JL)  | Department of Education (DoE), Education Adviser   |
| 4 | Denise Marsden (DM)  | Bayside Comprehensive School, Senior Teacher (Pastoral)  |
| 5 | George Parody (GP)   | University of Gibraltar  |
| 6 | Lianne Parral (LP)   | Bishop Fitzgerald Middle School (Headteacher)  |
| 7 | Elaine Prescott (EP) | HM GoG Department of the Environment, Heritage and Climate Change (DEHCC), Assistant Environment Officer |
| 8 | Kevin Wahnnon (KW)   | St. Bernard's First School, Teacher  |

**Proposed agenda points:**

1. Progress on the general structure for the Foundation, Bronze, Silver, Gold and Diamond levels.
2. Credit system proposal, suggested by Elaine Prescott
3. Next meeting dates

**Outline of the meeting:**

**1. Welcome and opening**

- Welcome of attendees by AF;
- Handing over the document with all the proposed criteria put forward by school representatives – compiled by Elaine.

**2. Updates since the last meeting**

- JL and AF briefed the attendees of the offer made by Prof Daniella Tilbury (Vice-Chancellor and CEO of the University) to facilitate the Sustainable Schools initiative in Gibraltar.
- Daniella offered to assist with a series of workshops with the objective of mentoring/coaching teachers in understanding the learning that goes behind each action, which requires

unpacking concepts that are usually taken for granted and also identifying the 'Hooks' (i.e. entry points) to engage each school in sustainable activities. E.g. Transport, Food, etc.

- Ideally, the workshops will take place in an in-service.
- Attendees endorsed the idea that before taking action with teachers, Headteachers have to be, at least, informed of the plans, and kept in the loop of what is going on with regards the Sustainable Schools initiative and how that will impact on their particular school.
- Daniella committed to draft an action plan to start working with schools as from September, starting with First schools, then focusing on Middle schools and finally Secondary schools. JL provided the list of First, Middle and Secondary schools to Daniella so that she can outline the plan ahead.
- The plan will have to run past the new Director of Education once appointed.

On another note, JL mentioned that Gibraltar is part of the Duke of Edinburg Golf Award and as such, schools can access funds to support Environmental Projects. JL has been asked by Minister Cortes to provide ideas of what schools could do in Gibraltar. Attendees had the opportunity to list a few ideas, e.g.:

- Placement of light and water sensors, TV screens showing monthly water and electricity consumption, building a 'plastic tree', paint the concrete blocks placed at the entrance of Main Street to make them more 'eco-friendly', students visiting other schools or projects, contribute to the Alameda Biodome, installation of solar panels, creating/enhancement of existing green areas and gardens within schools, re-invest in schools a % of fund raised through charitable activities, etc.

The proposed activity had to be for the benefit of students only (not teachers).

### 3. Review of the Structure

- EP compiled a word document with all the proposed criteria put forward by school reps, and included a few more, adding up to 40 targets established.
- Some amendments were suggested to the current structure, as follows:
  - o Foundation stage: Instead of delivering a 5 year action plan, it was agreed that schools should complete a 1 year plan plus a long-term vision for the school.
  - o It was agreed to have all elective elements (instead of core and optional elements) as this would allow more flexibility to schools to shape their progress.
  - o Therefore, instead of having to complete two elements (1 core + 1 optional) to progress through Bronze/Silver/Gold levels, it was agreed to allocate a credit system for the elective elements.

- Following the 'credit-based' system proposed by EP, the amended structure would be based on points/credits, having to attain a certain number of credits to qualify for the next level.
- Selected credits will have to impact in both ethos and curriculum. E.g. a visit to Los Barrios landfill followed up by a presentation to other pupils at school.
- Subsequently, the list of 40 activities was credit-rated by the attendees, being 1 the easiest activities to achieve, up to 6 being the most difficult element.
- Once scores/ratings had been agreed, GP suggested to multiply the final value by 10, as higher figures sound more encouraging and worthwhile.
- A template to record activity progress was suggested, including boxes to refer curriculum, ethos, community or other links.

#### **4. Next meeting dates**

- Tues 29<sup>th</sup> May 4pm, at the University – Sustainable Schools Core Committee.
- Wed 13<sup>th</sup> June 4pm, at the University – Sustainable Schools Working Party (School representatives).
- Wed 20<sup>th</sup> June 4pm, at the University – NGOs Forum.

LP, DM and JL left the meeting.

#### **5. September Seminar and AOB**

- AF shared with SB the general outline for the 2 day ClimACT in September.
- Young Enterprise presentations will be included at the end of Day 2 ideally to be held at the University, if possible.
- DT could facilitate teacher's session on the afternoon of Day 1.
- An after-meeting debriefing will be planned for Friday 28<sup>th</sup> evening / Saturday 29<sup>th</sup>.
- SB asked if Core Group members could meet Young Enterprise Students to present their book, before the end of the Academic Year.
- The session was closed at 18:30pm.

#### **6. Actions Points**

- SB and AF to finalise the proposed structure, credit system and activity record template; and amend it through google docs accordingly.
- SB to propose tentative dates to meet with Young Enterprise Students.

- For next meeting;
  - o Revisit the activity/credit system and possibly increase scoring by 10.
  - o Think how we will present the structure to the Working Group.
- Think of activities for the Duke of Edinburg award, and forward ideas to JL.



## 7. List of attendees

ClimACT - Acting for the transition to a low carbon economy in schools – development of support tools (SOCL/PS/P0429)

Interreg Sudoe  ClimACT

**Attendance List**

Title of the meeting: Sustainable Schools Gibraltar

Date: 17 / 05 / 2018 WP n°: 1 / 2 Activity n°: 1.2 / 3.1

Start time: 16 : 00 End time: 18 : 30

Venue: University of Gibraltar (2nd floor)

Beneficiary Leader: ☐ IST ☐ ISO ☐ EDIGREEN ☐ AMAE ☐ GEMAT  
☐ USE ☐ ULR ☐ VUR ☒ UNIGIB

In alphabetical order:

| Surname   | Name   | Organisation/School                  | E-mail  | Contact Number | Signature   |
|-----------|--------|--------------------------------------|---|----------------|---|
| Ballester | Sean   | Westside School                      | s_ballester@outlook.com;<br>s.ballester@westsideschoolgibraltar.com | 54003245       |   |
| Fernandez | Amalia | University of Gibraltar              | amalia.fernandez@unigib.edu.gi                                      | 54025116       |  |
| Linares   | Jackie | Dep of Education (Education Adviser) | jackie.linares@gibraltar.gov.gi                                     | 56000321       |  |
| Marsden   | Denise | Haywards                             | dmarsden@haywardschoolgibraltar.gi                                  | 54863000       |  |

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ClimACT - Acting for the transition to a low carbon economy in schools – development of support tools (5013/P3/P0429)

Interreg  
Sudoe

ClimACT

| Surname  | Name   | Organisation/School                                  | E-mail  | Contact Number | Signature |
|----------|--------|--|---|----------------|-----------|
| Parody   | George | University of Gibraltar                              | geopan@gibtelecom.net;<br>george.parody@unigib.edu.gi | 54007728       |           |
| Parrai   | Lianne | Bishop Fitzgerald Middle School                      | lmparra@gmail.com                                     | 54017033       |           |
| Prescott | Elaine | Dep Environment, Heritage and Climate Change (DEHCC) | elaine.prescott@gibraltar.gov.gi                      | 5400530        |           |
| Wahnon   | Kevin  | St. Bernard's First School                           | kevin.wahnon@education.gov.gi                         | 54022743       |           |

ClimACT project is co-financed by the European Regional Development Fund (ERDF)

## 8. Photos of attendees



From left to right: LP, JL, GP, KW



From left to right: EP, DM, SB

## ClimACT – SOE1/P3/P0429

### UNIGIB / DOE / DEHCC

### SUSTAINABLE SCHOOLS COMMITTEE MEETING

**Date:**

Tue, 29<sup>th</sup> May 2018

**Time:**

4pm

**Venue:**

University of Gibraltar, Boardroom

**Attendees (in alphabetical order, by surname);**

|   |                      |  |
|---|----------------------|--|
| 1 | Sean Ballester (SB)  | Westside School (Co-opted member)  |
| 2 | Amaia Fernandez (AF) | University of Gibraltar  |
| 3 | Jackie Linares (JL)  | Department of Education (DoE), Education Adviser   |
| 4 | George Parody (GP)   | University of Gibraltar  |
| 5 | Elaine Prescott (EP) | HM GoG Department of the Environment, Heritage and Climate Change (DEHCC), Assistant Environment Officer |

**Apologies:**

- Denise Marsden (DM), Bayside Comprehensive School, Senior Teacher (Pastoral)
- Lianne Parral (LP), Bishop Fitzgerald Middle School (Headteacher)
- Kevin Wahnnon (KW), St. Bernard's First School, Teacher

**Proposed agenda points:**

1. Revisit the activity/credit system and possibly increase scoring;
2. Discuss how to present the structure to the Working Party;
3. Agenda for September Seminar;
4. Tentative dates to meet with Young Enterprise Students;
5. Possible activities for the Duke of Edinburgh award;
6. Next meeting dates;

**Outline of the meeting:****1. Welcome and opening**

- Welcome of attendees by AF and EP;
- TV screen on with Google docs presenting the structure, activities and credits.

## 2. Activity review and score increase

- Attendees agreed to multiply by 10 the scoring assigned to activities; since higher figures sound more encouraging and worthwhile.
- Having moved away from 'Core' and 'Optional' activities gives more freedom to schools to progress at their own pace.
- The list of activities remains open and additional activities would be assessed by the Core Group to check suitability and scoring of the activity before adding them to the list.
- The structure, credit and activity record template can be accessed here:  
<https://docs.google.com/spreadsheets/d/1ZO7dFIOUqoa8QYITSG0qtq0431cPcsKW-TBfi-Rowqw/edit?usp=sharing>

## 3. Presentation of the Structure to the Working Party

- Attendees reviewed activity scoring and discussed points needed to qualify for each stage.
- Attendees agreed to let teachers discuss and decide on the number of credits that schools should to achieve in order to qualify for the next stage.
- The above would be discussed in a group activity/workshop-type meeting with the Working Party.
- The agenda for the next Working Party was discussed, agreed, and tasks divided as follows:

### **SUSTAINABLE SCHOOLS WORKING PARTY**

**Wednesday 13 June, 4pm**

University of Gibraltar, Europa Point Campus

#### **Agenda**

**16.00 - 16.05:** Feedback Brussels (AF)

**16.05 - 16.10:** Updated Structure (EP)

**16.10 - 16.15:** List of activities and credits (open and inclusive) (EP)

**16.15 - 16.35:** Group activity (establish the amount of credit per stage) (SB)

**16.35 - 17.15:** Group presentation (SB)

**17.15 - 17.25:** Plenary and summary of the year (JL)

**17.25 - 17.30:** Next steps (JL)

- The Power Point presentation for the Working Party was made available through Google docs:  
[https://docs.google.com/presentation/d/1y6a\\_OKVLyCCeolVdQRRzEAld69bpFA\\_vHDWiwdw6Ccw/edit?usp=sharing](https://docs.google.com/presentation/d/1y6a_OKVLyCCeolVdQRRzEAld69bpFA_vHDWiwdw6Ccw/edit?usp=sharing)

## 4. September Seminar

- AF briefly presented the outline for the 2-day seminar in September.
- Day 1 will see an afternoon workshop with local and international schools teachers, possibly facilitated by Daniella Tilbury (TBC).

- Day 2 will see a school visit in the morning, and Young Enterprise presentation of most developed projects in the afternoon, ideally at the University.
- JL (DoE) to ensure release of teachers for the seminar.
- AF to secure as many international delegates as possible, including Andorra that attended the kick-off meeting in Lisbon.
- An after-meeting debriefing will be planned for Friday 28<sup>th</sup> evening / Saturday 29<sup>th</sup>.

## 5. Next meeting dates

- Wed 13<sup>th</sup> June 4pm, at the University – Sustainable Schools Working Party (School representatives).
- Wed 20<sup>th</sup> June 4pm, at the University – NGOs Forum.
- Thurs 27 and Fri 28 Sep – ClimACT Progress Meeting.

## 6. AOB

- Attendees talked about the recent appointment of Daniella Tilbury as Commissioner of Sustainable Development.
- The Sustainable Schools Core Committee acknowledged the value of the appointment and agreed on engaging with Daniella as an external advisory/expert, as and when needed (e.g. workshop session for September seminar).
- Attendees established that ClimACT will continue running as usual, and that Daniella could deliver coaching sessions to teachers, as agreed on the meeting held on 10/05/2018. Both activities would be complementary.
- Those coaching sessions would take place during the 2018/19 Academic Year, and by May 2019 when ClimACT comes to an end and phases out naturally, Sustainable Schools Gibraltar would continue growing strong.
- Interreg Sudoe Brussels conference. JL and AF will be attending a conference in Brussels on the 6<sup>th</sup> June that celebrates the 15<sup>th</sup> anniversary of the Sudoe Programme. The programme has invited ClimACT to present how it is impacting in local schools and in Education for Sustainable Development. The presentation will be delivered by JL, as they requested that the Gibraltar case should be presented by an 'end user', i.e. a final beneficiary of the project's results, which in this case would be Dept. of Education.

Attendees had to leave and there was no time left to discuss the following points:

- Tentative dates to meet with Young Enterprise Students;
- Possible activities for the Duke of Edinburgh award.



## 7. Actions Points

- AF to follow-up confirmation of international teachers for September seminar.
- AF to approach Daniella to explore possibility of delivering a workshop to teachers during the September ClimACT meeting.
- AF, EP, SB and JL to populate their respective slides for the Working Party meeting. Updates to be done directly into the Power Point presentation, through Google docs, as follows:
  - o Feedback Brussels (AF)
  - o Updated Structure (EP)
  - o List of activities and credits (open and inclusive) (EP)
  - o Group activity (establish the amount of credit per stage) (SB)
  - o Group presentation (SB)
  - o Plenary and summary of the year (JL)
  - o Next steps (JL)

## 8. List of attendees

ClimACT - Acting for the transition to a low carbon economy in schools – development of support tools (SDEI/PI/90425)

### Attendance List

Title of the meeting: ClimACT - Sustainable Schools Gibraltar

Date: 29 / 05 / 2018 WP n.º A / 3

Activity n.º: 1, 2 / 3.1

Start time: 16 : 00 End time: 18 : 00

Venue: University of Gibraltar (Boardroom)

Beneficiary leader:

☐ IST    ☐ ISQ    ☐ EDGREEN    ☐ ABAB    ☐ GEMAT  
☐ USE    ☐ UIR    ☐ VLR    ☒ UNIGIB

In alphabetical order

| Surname   | Name   | Organisation/School                  | E-mail  | Contact Number | Signature   |
|-----------|--------|--------------------------------------|---|----------------|---|
| Ballester | Sean   | Westside School                      | s_ballester@outlook.com;<br>s.ballester@westsideschoolgibraltar.com | 54003245       |   |
| Fernandez | Amaia  | University of Gibraltar              | amaia.fernandez@unigib.edu.gi                                       | 54025116       |  |
| Urianes   | Jackie | Dep of Education (Education Adviser) | jackie.urianes@gibraltar.gov.gi                                     | 50090321       |  |
| Marsden   | Denise | Bayside                              | dmarsden@baysideschoolgibraltar.gi                                  | 54863000       |   |

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ClimACT - Acting for the transition to a low carbon economy in schools – development of support tools (SDE1/P3/P0429)

| Surname  | Name   | Organisation/School                                  | E-mail  | Contact Number | Signature   |
|----------|--------|--|---|----------------|---|
| Parody   | George | University of Gibraltar                              | geopar@gibtelecom.net;<br>george.parody@unigib.edu.gi | 54007728       |  |
| Perrai   | Lianne | Bishop Fitzgerald Middle School                      | Imperrai@gmail.com                                    | 54017033       |   |
| Prescott | Elaine | Dep Environment, Heritage and Climate Change (DEHCC) | elaine.prescott@gibraltar.gov.gi                      | 54004530       |  |
| Wahnon   | Kevin  | St. Bernard's First School                           | kevin.wahnon@education.gov.gi                         | 54022741       |   |

## 9. Photos of attendees



From left to right: GP, EP, JL, SB

## ClimACT – SOE1/P3/P0429

### CLIMACT / SCHOOL REPRESENTATIVES

**Date:**

Wed, 13<sup>th</sup> June 2018

**Time:**

4pm

**Venue:**

University of Gibraltar, Seminar Room 9

**Attendees (in alphabetical order);**

| No | Surname       | Name      | Acronym | Organisation/School             |
|----|---------------|-----------|---------|---------------------------------|
| 1  | Andrews       | Lizanne   | LA      | St. Anne's Middle School        |
| 2  | Ballester     | Sean      | SB      | Westside School                 |
| 3  | Borrell       | Claire    | CB      | Westside School                 |
| 4  | Bosano        | Gianna    | GBo     | Gibraltar College               |
| 5  | Burgod        | Charmaine | CBu     | St. Joseph's First School       |
| 6  | Caruana       | Charlene  | CC      | St. Mary's First School         |
| 7  | Catania       | Lijianna  | LC      | Westside School                 |
| 8  | Clinton       | Ewen      | EC      | St. Joseph's Middle School      |
| 9  | Coelho        | Anne      | AC      | Westside School                 |
| 10 | Fernandez     | Chrisanne | CF      | Notre Dame First School         |
| 11 | Fernandez     | Amaia     | AF      | University of Gibraltar         |
| 12 | Garner        | Gaby      | GG      | Loreto Convent (Middle School)  |
| 13 | Grech         | Robert    | RL      | Loreto Convent (First School)   |
| 14 | Lester        | Gaynor    | GL      | Bayside School                  |
| 15 | Linares       | Jackie    | JL      | Dep of Education                |
| 16 | Lopez         | Cathy     | CL      | Bishop Fitzgerald Middle School |
| 17 | Marsden       | Denise    | DM      | Bayside School                  |
| 18 | Marsden       | Caitlin   | CM      | Bayside School                  |
| 19 | Neish         | Crissy    | CN      | Loreto Convent                  |
| 20 | Parody        | George    | GP      | University of Gibraltar         |
| 21 | Parral        | Lianne    | LPa     | Bishop Fitzgerald Middle School |
| 22 | Piñero        | Lisanne   | LPI     | Governor's Meadow First School  |
| 23 | Piri          | Monica    | MPir    | St. Paul's First School         |
| 24 | Prescott      | Elaine    | EP      | DEHCC                           |
| 25 | Prior-Hawkins | Jacqui    | JPH     | Bishop Fitzgerald Middle School |
| 26 | Russo         | Ian       | IR      | Bishop Fitzgerald Middle School |
| 27 | Wahnon        | Kevin     | KW      | St. Bernard's First School      |

**Absent;**

- St. Bernard's Middle School

**Agenda points:**

- 1) Feedback Brussels (AF)
- 2) Updated Structure (EP)
- 3) List of activities and credits (open and inclusive) (EP)
- 4) Group activity (establish the amount of credit per stage) (SB)
- 5) Group presentation (SB)
- 6) Plenary and summary of the year (JL)
- 7) Next steps (JL)

**Outline of the session, and summary of discussions:****1. Feedback from Brussels conference**

- AF updated the attendees on the recent Brussels event.
- The international conference took place on the 6<sup>th</sup> June in Brussels to commemorate the 15<sup>th</sup> Anniversary of the SUDOE EU programme, which funds the ClimACT project.
- The conference included slots to present project results, and one of those slots was offered to the ClimACT project and the University of Gibraltar.
- This was an excellent opportunity to appear at an international event, to put Gibraltar on the map, and to showcase how ClimACT is impacting in local schools, the progress made so far, and how this will be reflected in schools' ethos and curricula in the future.
- The event organisers requested that the Gibraltar case should be presented by an 'end user', i.e. the speaker had to be a final beneficiary of the project's results, and in this case Jackie Linares was proposed to represent the Dept. of Education.
- So the project was introduced by the leading partner, the University of Lisbon, followed by Jackie explaining 1) What was happening in Schools previous to joining ClimACT; 2) What has changed since joining ClimACT; and what the legacy of the ClimACT project would be.
- There event also saw panel sessions discussing about future regional policies, priorities, cohesion policies and budget allocations.
- Around 60 delegates attended the conference, including MEP, members of the European Commission and Head of Units.

**2. Updated structure, activities and credit system**

- EP explained how the Core Committee has considered the contributions from the Working Party.
- The stages will remain the same: Foundation, Bronze, Silver, Gold and Diamond.



- However, she explained how the Core Committee concluded that it would be better to move away from 'Core' and 'Optional' activities as it gives more freedom to schools to progress at their own pace.
- Hence the activities proposed the by the Working Party had been assigned a score depending on the level of difficulty.
- Further, instead of having to choose two elements (core and optional) as initially proposed, schools would now have a list of activities with corresponding scores.
- In order to progress on stages schools would have to achieve a certain number of credits with activities that impact on both the Ethos and Curriculum.
- EP presented the list of activities and credits.
- The list of activities remains open and additional activities could be proposed and added after been assessed by the Core Group to check suitability and scoring.

### 3. Group activity and presentations (SB)

- SB explained the objective of the group activity: Discuss and decide the amount of credits that schools should achieve in order to qualify for each stage.
- Schools could provide examples of combined activities from the list to meet each criteria, and raise any issues or questions that arise during the activity.
- Core Committee members facilitated discussions of different groups.
- After the discussion, a speaker from each group presented their feedback and how they would best apply the credit system.
- During the presentation, a time for discussion on potential issues initiated. Main discussion points of discussion are summarised below:
  - o Some activities listed were things that could just be bought.
  - o Actions that imply developmental/cultural activities would be best.
  - o Teachers tried to divide activities into Ethos and Curriculum (as devised originally).
  - o Points to qualify for each Stage should be achievable.
    - E.g. 80 / 160 / 240 being 40/40, 80/80, 120/120 the credits assigned to Curriculum and Ethos respectively in each Stage.
  - o To refine the language and be more specific with task descriptions. E.g. Does the task apply to a year group? To the whole school?
  - o Each school to check the list and decide where they would be at present. This would help to set up a baseline.
  - o Scores of E.g. 70 / 140 / 210 including uneven numbers force schools to choose a wider variety of tasks, as they would have to choose an extra task to reach the credits.
  - o Keep a folder with evidence (simple).
  - o If a school does all activities on the list, a special award should be presented to that school.

- To have separate schemes for different Key Stages, as there could be a big difference on tasks that only apply to first schools (e.g. use of baby wipes). However, if a particular activity does not apply to a school/stages, schools could simply opt not to do that tasks on the list.

#### 4. Plenary and summary of the year

- JL summarised the activities carried out over the past months:
  - The activities initial with a cohort of pilot schools (Spring 2017).
  - JL moved to DOE (Summer 2017).
  - JL convened all schools (Autumn 2017). Seminars have been held in November, February, March and June.
  - Sustainable Schools has also engaged with NGOs (January and June 2018).
  - The Core Committee has held monthly meetings since January 2018.
- JL reiterated that this is a learning process for all that there will not be a perfect scheme. Activities will have to be trialled out and fine-tuned as Sustainable Schools move forward. Feedback and reflection time will be needed in due course.
- The process to define the Sustainable Schools draft scheme remains open and participatory at all times.
- Working groups and meeting dynamics are now in place.

#### 5. Next steps

- Schools should reach the Foundation Stage at the beginning of the next Academic Year, between September and December 2018.
- Schools should progress on Stages during the 2018/19 Academic Year.
- The Dept. of Education is planning to arrange in services in Sustainable Education for the 2018/19 Academic Year.
- The Dept. of Education will make use of the information collected through the audits in order to identify areas for development.
- The University will host the ClimACT progress meeting on 27 and 28 of September 2018. The 2-day seminar will see attendance of international teachers. The Dept. of Education will try and make arrangements in order to release relevant teachers from school to participate in specific activities (e.g. workshops).
- On another note, AF explained that ClimACT has made it to the final short list of RegioStars 2018 Awards. RegioStars is a competition that honours innovative projects that are attractive and inspiring to other regions. Those project have to be supported by Regional Development Funds.

- There will be panel of experts evaluating the projects but equally important is the voting for the Public Choice Award. The latter will start on 3 July, further details will follow in due course and schools will be encouraged to vote.
- The prize will be to represent a theatre play at a Brussels event. The play will include two students from Gibraltar, two from Spain, two from France and two Portugal. Students will explain the ClimACT project and its impact throughout the play. Gibraltar would feed in with First School students, in order to facilitate the language of communication, as the play would be in English.

## 6. Conclusions

- Main points arisen from discussions:
  - Consider applying uneven points.
  - Activities require more detail – and ideally make everything developmental.
  - Schools would need to establish a baseline (i.e. number of credits they currently qualify for).
  - Schools are welcome to propose more ideas and activities. The list of activities is a working document.
  - Proof of activity achievement should not be cumbersome. Activity assessment should be defined in due course. At present the Core Committee trusts the professionalism of teachers.
  - The materials used in the presentation to be forwarded to each school so they can cascade down the message and to present to staff.

## 7. AOB

- Core Committee to meet shortly to analyse current meeting's discussions.
- On other business was brought to the attention of the attendees and the session was closed at 6pm.

## 8. List of attendees

ClimACT - Acting for the transition to a low carbon economy in schools – development of support tools (SOE1/P3/P0429)

### Attendance List

Title of the meeting: Sustainable Schools Working Party

Date: 13 / 06 / 2018 WP n° 3 / 6

Activity n°: 3.1 / 1.2

Start time: 16:00 End time: 18:30

Meeting Venue (city and country): University of Gibraltar (Seminar Room 9)

Beneficiary Leader:

☐ IST ☐ SQ ☐ EDGREEN ☐ ABAC ☐ CIEMAT  
☐ USE ☐ ULB ☐ VLR ☒ UNGIB

In alphabetical order

| Surname  | Name    | Organisation/School       | E-mail  | Contact Number | Signature   |
|----------|---------|---------------------------|---|----------------|---|
| Andrews  | Lizanne | St. Anne's Middle School  | sams.deputy@schools.edu.gi  | 54011758       |   |
| Balister | Sean    | Westside School           | s_balister@outlook.com;<br>s.balister@westside-school-gibraltar.com | 54013245       |  |
| Beltran  | Mark    | St. Joseph's First School | mbehran@hotmail.co.uk   | 56000114       |   |
| Berlaque | Jenique | Westside School           | jberlaque@westside-school-gibraltar.com                             | 54023208       |   |

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ClimACT - Acting for the transition to a low carbon economy in schools - development of support tools (SOE1/P3/P0429)

| Surname | Name        | Organisation/School            | E-mail                                | Contact Number | Signature   |
|---------|-------------|--------------------------------|---------------------------------------|----------------|---|
| Borrell | Claire      | Westside School                | c.borrell@westsideschoolgibraltar.com | 54003957       |    |
| Burgod  | Charmaine   | St. Joseph's First School      | SJFS.deputyhead@schools.edu.gi        | 54024389       |    |
| Caruana | Charlene    | St. Mary's First School        | smfs.deputyhead@schools.edu.gi        | 54012400       |    |
| Cotania | Pamela      | Governor's Meadow First School | pcotania@hotmail.com                  | 54026341       |   |
| Catania | Ljanna      | Westside School                | lcatania@westsideschoolgibraltar.com  | 54003997       |    |
| Clinton | Jeremy      | St. Joseph's First School      | SJFS.deputyhead@schools.edu.gi        | 58469000       |   |
| Clinton | Ewen        | St. Joseph's Middle School     | sjms.deputy@schools.edu.gi            | 20075615       |   |
| Coelho  | Anne        | Westside School                | a.coelho@westsideschoolgibraltar.com  | 54022181       |  |
| Cortes  | Christopher | St. Bernard's Middle School    | christopher.cortes@schools.edu.gi     | 20073863       |   |

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ClimACT - Acting for the transition to a low carbon economy in schools – development of support tools (SOE1/P3/P0429)

| Surname   | Name          | Organisation/School   | E-mail                               | Contact Number | Signature   |
|-----------|---------------|---|--------------------------------------|----------------|---|
| Cruz      | Priscilla     | Notre Dame First School                                       | cruzp@gibtelecom.net                 | 20075182       |   |
| Fernandez | Amala         | University of Gibraltar                                       | amala.fernandez@unigib.edu.gi        | 54025116       |    |
| Fernandez | Chrisanne     | Notre Dame First School                                       | chrisannefernandez281@gmail.com      | 54002434       |    |
| Ferro     | Rosa Victoria | Governor's Meadow First School                                | gmfs.headteacher@schools.edu.gi      | 20075772       |   |
| Foster    | Sarah         | Dep of Edu B.E.S.T (Behavioural and Educational Support Team) | s.foster@westsideschoolgibraltar.com | 54032923       |   |
| Garner    | Galby         | Loreto Middle   | ggarner@loreto.gi                    | 57967000       |    |
| Golt      | Monica        | Bishop Fitzgerald Middle School                               | monica.golt@schools.edu.gi           | 54010665       |   |
| Grech     | Robert        | Loreto Convent (First School)                                 | rgrech@loreto.gi                     |                |  |
| Howard    | Natalia       | Bishop Fitzgerald Middle School                               | natalia.howard@education.gov.gi      | 54024658       |   |



ClimACT - Acting for the transition to a low carbon economy in schools – development of support tools (SOE1/P3/P0429)

| Surname | Name     | Organisation/School                         | E-mail                             | Contact Number | Signature   |
|---------|----------|---|------------------------------------|----------------|---|
| Linares | Jackie   | Dep of Education (Education Adviser)        | jackie.linares@gibraltar.gov.gi    | 55000321       |    |
| Lomax   | Robert   | Hebrew Primary School                       | hps.head@schools.edu.gi            | 20076906       |   |
| Lopez   | Cathy    | <u>Bishop</u><br>St. Bernard's First School | cathy_lopez2102@hotmail.com        | 54012102       |    |
| Marsden | Caillin  | Bayside School                              | cmarsden@baysideschoolgibraltar.gi | 54023734       |    |
| Marsden | Denise   | Bayside School                              | dmarsden@baysideschoolgibraltar.gi | 54863000       |    |
| Martyn  | Paul     | Prior Park School                           | pmartyn@priorparkschools.com       | 54012367       |   |
| Mcneice | Jonathan | Hebrew Primary School                       | hps.deputy@schools.edu.gi          | 54009372       |   |
| Morgan  | Nyween   | St Paul's First School                      | nyween.morgan@schools.edu.gi       | 54011323       |   |
| Neish   | Crissy   | Loreto Convent                              | cneish@loreta.gi                   | 54023458       |  |

ClimACT - Acting for the transition to a low carbon economy in schools – development of support tools (SOE1/P3/P0429)

| Surname       | Name    | Organisation/School                                  | E-mail  | Contact Number                | Signature   |
|---------------|---------|--|---|-------------------------------|---|
| Pardo-Gomez   | Lizanne | St. Anne's Middle School                             | lizannepardo@yahoo.com                                | 20077161                      |    |
| Parody        | George  | University of Gibraltar                              | geopar@gibtelecom.net;<br>george.parody@unigib.edu.gi | 54007728                      |    |
| Parral        | Lianne  | Bishop Fitzgerald Middle School                      | lmparral@gmail.com                                    | 54017033                      |    |
| Piffero       | Lisanne | Governor's Meadow First School                       | leblagg@yahoo.com                                     | 54022402                      |    |
| Piri          | Monica  | St. Paul's First School                              | monica.piri@schools.edu.gi                            | 54001718                      |   |
| Pitchford     | Mandy   | Loreto Convent (First School)                        | mpitchford@loredo.gi                                  |                               |   |
| Prescott      | Elaine  | Dep Environment, Heritage and Climate Change (DEHCC) | elaine.prescott@gibraltar.gov.gi                      | 54004530                      |  |
| Prior-Hawkins | Jacqui  | Bishop Fitzgerald Middle School                      | jpriorhawkins45@gmail.com                             | 54019588                      |  |
| Ramagge       | Arthur  | Gibraltar College                                    | aramagge@gibc.edu.gi                                  | 20045083<br>2037<br>(centrex) |   |

ClimACT - Acting for the transition to a low carbon economy in schools – development of support tools (SOE1/P3/P0429)

| Surname     | Name       | Organisation/School                                  | E-mail                              | Contact Number | Signature   |
|-------------|------------|--|-------------------------------------|----------------|---|
| Reyes       | Richard    | Bishop Fitzgerald Middle School                      | richard.reyes@schools.edu.gi        | 20077152       |   |
| Russo       | Ian        | Bishop Fitzgerald Middle School                      | bfms.geo@gmail.com                  | 20077152       |    |
| Sanguinetti | Jessica    | St Mary's First School                               | smfs.head@schools.edu.gi            | 54006673       |   |
| Sciaccaluga | Jenny      | St. Bernard's First School                           | jennysciaccaluga@hotmail.com        | 54015589       |   |
| Ulliger     | Chris-Anne | Bayside School                                       | caulliger@baysideschoolgibraltar.gi | 54025778       |   |
| Wahnon      | Kevin      | St. Bernard's First School                           | kepwah@gmail.com                    | 54022741       |   |
| Walsh       | Catherine  | Dep Environment, Heritage and Climate Change (DEHCC) | catherine.walsh@gibraltar.gov.gi    | 54028902       |   |
| GOSMAN      | Gemma      | GIBRALTAR COUNCIL                                    | Gemma.Gosman@schools.edu.gi         | 54048870       |  |
| LESTER      | Gemma      | BAYSIDE  | glester@baysideschoolgibraltar.gi   | 56591000       |  |

## 9. Photos of attendees



Teachers working in groups, addressing Agenda Point 4



Teachers working in groups, addressing Agenda Point 4





Teachers presenting their group discussions, addressing Agenda Point 4

## ClimACT – SOE1/P3/P0429

### CLIMACT / NGOs - STAKEHOLDERS

**Date:**

Wed, 20<sup>th</sup> Jun 2018

**Time:**

4pm

**Venue:**

University of Gibraltar, Seminar Room 6

**Attendees (in alphabetical order);**

|    |           |           |      |  |
|----|-----------|-----------|------|--|
| 1  | Ballester | Sean      | (SB) | Westside School  |
| 2  | Fernandez | Amaia     | (AF) | University of Gibraltar  |
| 3  | Gilder    | Christine | (CG) | Alameda Gardens  |
| 4  | Gomila    | Brian     | (BG) | Monkey-Talk Gibraltar  |
| 5  | Hart      | Lucy      | (LH) | Alameda Gardens Volunteer  |
| 6  | Howitt    | Janet     | (JH) | Environmental Safety Group (ESG)   |
| 7  | Leaper    | Jessica   | (JL) | Alameda Wildlife Conservation Park   |
| 8  | Parody    | George    | (GP) | University of Gibraltar  |
| 9  | Parral    | Lianne    | (LP) | Bishop Fitzgerald Middle School  |
| 10 | Pereira   | Rodney    | (RP) | Gibraltar Teacher's Association (GTA)  |
| 11 | Prescott  | Elaine    | (EP) | HM GoG Department of the Environment, Heritage and Climate Change (DEHCC), Assistant Environment Officer |
| 12 | Triay     | Conchita  | (CT) | Environmental Safety Group (ESG)   |
| 13 | Wahnon    | Kevin     | (KW) | St. Bernard's First School, Teacher  |

**Apologies;**

- Jackie Linares, Education Adviser, Dept. of Education
- Denise Marsden, Bayside Comprehensive School
- Keith Bensusan, Gibraltar Ornithological & Natural History Society (GONHS)

**Absent;**

- Emily Lopez, Conscious Eating
- Alex Menez, GONHS
- Lewis Stagnetto, The Nautilus Project



**Agenda points:**

- ClimACT and outreach activities (AF)
- ClimACT Audits (EP)
- Sustainable Schools: Working groups, structure, activities and conclusions (SB/LP/KW/DM)
- Summary of the year and next steps (GP)
- Q&A, discussion (all)

**Outline of the meeting:****1. Welcome and opening**

- Welcome of attendees by AF;
- Apologies of Jackie Linares and Denise Marsden
- Quick overview of the proposed agenda points;

**2. ClimACT and outreach activities**

- AF gave a quick overview of the main outreach and international activities covered by ClimACT since January 2018. These included: news items of the ClimACT Progress meeting in Madrid (January 2018), Bayside's Environmental Week (February 2018), Sudoe calendars at St. Bernard's First School (February 2018), Brussels Sudoe conference (June 2018) and the upcoming RegioStars Award voting (July 2018).

**3. ClimACT Audits**

- EP explained that ClimACT audits were completed in May and that currently reports are being drafted. Reports will include observations and recommendations for the following aspects: transport, green procurement, green spaces, indoor air quality, energy, water and waste.

**4. Sustainable Schools: Working groups, structure, activities and conclusions**

- SB updated the attendees on the progress made with the sustainable schools framework.
- SB explained the established working groups, namely
  - Core Committee – formed by ClimACT, Dept. of Environment, Dept. of Education, First, Middle and Secondary school reps.
  - Working Party – reps from all schools.
  - NGOs forum.
  - Within schools - Sustainable/Eco School Committee/commission

- SB explained the proposed structure: Foundation, Bronze, Silver, Gold and Diamond Stages. He also showed the list of activities that have resulted from the various sessions of the Working Party.
- He also gave details of the conclusions of the last Working Party held on 13<sup>th</sup> June:
  - o Consider applying uneven points.
  - o Activities require more detail –and ideally make everything developmental.
  - o Schools would need to establish a baseline (i.e. number of credits they currently qualify for).
  - o Schools are welcome to propose more ideas and activities. The list of activities is a working document.
  - o Proof of activity achievement should not be cumbersome. Activity assessment should be defined in due course. At present the Core Committee trusts the professionalism of teachers.

## 5. Summary of the year and next steps

- GP gave an overview of the main milestones achieved during the past year:
  - o The activity commenced with an initial cohort of pilot schools (Spring 2017)
  - o Jackie Linares moved to the Dept. Education and convened all schools (Autumn 2017). Working Party seminars have been held in November, February, March and June.
  - o ClimACT has also engaged with NGOs (January and June 2018)
  - o The Core Committee has held monthly meetings since Jan 2018.
  - o The process is a learning curve for all. ClimACT has tried to keep an open and participatory process throughout to define draft Sustainable Schools scheme, and will continue to do so during the coming months.
  - o Working groups and meeting dynamics are now in place, this will be the legacy of the ClimACT project.
- GP wrapped up by presenting the next steps, as follows:
  - o The Working Party set the target that schools should reach the Foundation stage between Sept-Dec 2018.
  - o Schools would have the opportunity to Progress on Stages during the 2018/19 Academic Year. The roll out will serve to pilot test the scheme.
  - o In services for the 2018/19 Academic Year are being explored by the Dept. Education.
  - o The compiled audits and data will be used to identify areas for development.
  - o ClimACT to host a partner's progress meeting in 27 and 28 September.

- ClimACT still has 12 months to go to construct solid foundations.
- As ClimACT phases out naturally, a sustainable schools scheme will take off strong.

## 6. Q&A, discussion

- Attendees animated the presentation by vivid and positive discussions that touched upon the following aspects:
  - Possibility of mirroring other programmes. ClimACT has looked into other programmes (a lot of resources are readily available online) but the assessment part was always the main drawback preventing Gibraltar schools to access any of those programme (e.g. Eco-Schools UK).
  - Further to above, ClimACT's Core Committee decided to develop their own programme that would apply to Gibraltar schools.
  - The initial (eight) objectives of ClimACT must not be forgotten:
    - Promote the transition to a low carbon economy in schools.
    - Help raising environmental awareness and sustainable practices amongst pupils, teachers and parents.
    - Building upon ongoing activities.
    - Progress underpinned by three elements: environmental audits, embedding activities into curricula and teacher development.
    - Provision of guidelines to support sustainable practise in schools at all levels.
  - NGOs welcomed the progress made so far but, CT expressed that need of having an overarching policy from the Dept. Education to back all this.
  - ClimACT's audits have flagged positive and negative issues. Relevant recommendations shall feed in the new schools projects. It will be up to the respective Departments in charge to take on those recommendations.
  - NGOs suggested that activities should also involve and impact the local community. Activities should go beyond the walls of schools and involve e.g. NGOs, Boy Scouts, Girl Guides or Duke of Edinburgh Award.
  - Students should also approach business as part of community engagement for sustainable development.
  - CT suggested that NGOs could be the independent body that assess progress of schools.
  - It was suggested that a special award should be presented for 'best school progress'.

## 7. AOB

- NGOs enquired about the next meeting date. They were advised that it would probably be once the next academic year had commenced. They would be advised of the new date in due course.
- No other issue was brought to the attention of the attendees and the meeting was closed at 5.40pm.

## 8. List of attendees

ClimACT - Acting for the transition to a low carbon economy in schools – development of support tools (SOL/P3/P0423)

### Attendance List

Title of the meeting: CLIMACT NEEDS FORUM, STAKEHOLDERS

Date: 20 / 06 / 2020 WP n° 3 / 1

Activity n°: 3.1 / 1.2 / 1.3

Start time: 16:00 End time: 17:40

Meeting venue (city and country): UNIVERSITY OF GIBRALTAR, SEMINAR ROOM 6

Beneficiary Leader:

☐ IST  
☐ USE

☐ ISQ  
☐ LIR

☐ EDIGREEN  
☐ VLR

☐ ABAL  
☐ UNIGIB

☐ CEMAT

in alphabetical order

| Surname   | Name  | Organisation/School | E-mail   | Contact Number         | Signature  |
|-----------|-------|---------------------|--|------------------------|--|
| Ballester | Sean  | Westside School     | s.ballester@outlook.com;<br>s.ballester@westsideschoolgibraltar.com    | 54003243               |  |
| Bensusan  | Keith | GONHS               | kbensusan@gibraltargardens.gi<br>kbensusan@gonhs.org<br>info@gonhs.org |                        |  |
| Dewfall   | Daya  | Conscious Eating    | Daya.Dewfall@gha.gi<br>Health.Promotion@gha.gi                         | 200 72266<br>Ext: 2020 |  |
| Feeney    | Tessa | Helping Hand Trust  | Info@helpinghand.gi  | 200 73719              |  |

ClimACT - Acting for the transition to a low carbon economy in schools – development of support tools [SC01/PS/06420]

| Surname   | Name      | Organisation/School                   | Email   | Contact Number         | Signature  |
|-----------|-----------|---------------------------------------|---|------------------------|--|
| Fernandez | Amala     | University of Gibraltar               | amala.fernandez@unigib.edu.gi                 | 54025116               |   |
| Gilder    | Christine | Alameda Gardens                       | cgilder@gibraltargardens.gi                   | 54035323               |   |
| Gomila    | Brian     | Monkey-Tail Gibraltar                 | monkeytailgibraltar@gmail.com                 | 54018096               |   |
| Gonzalez  | Victor    | Gibraltar Teacher's Association (GTA) | victorgib@yahoo.com                           |                        |  |
| Hart      | Lucy      | Alameda Gardens Volunteer             | biodome@gibraltargardens.gi                   | +44<br>7791988121      |   |
| Howitt    | Janet     | Environmental Safety Group (ESG)      | howitts@gibtelecom.net                        | 54960000               |   |
| Leaper    | Jessica   | Alameda Wildlife Conservation Park    | info@awcp.gi + CONSCIOUS EATING               | 54017449               |  |
| Linares   | Jackie    | Dep of Education                      | jackie.linares@gibraltar.gov.gi               | 56000321               |  |
| Lopez     | Emily     | Conscious Eating                      | Emily.Lopez@gha.gi<br>Health.Promotion@gha.gi | 200.72266<br>Ext: 2017 |  |



ClimACT - Acting for the transition to a low carbon economy in schools – development of support tools (5011/P3/P0429)

| Surname   | Name     | Organisation/School                   | E-mail  | Contact Number | Signature   |
|-----------|----------|---------------------------------------|---|----------------|---|
| Marsden   | Denise   | Bayside School                        | dmarsten@baysideschoolgibraltar.gi                                      | 54863000       |   |
| Menez     | Alex     | GONHS                                 | alex.menez@gha.gi   |                |   |
| Parody    | George   | University of Gibraltar               | geopar@gbtelecom.net;<br>george.parody@unigib.edu.gi                    | 54007728       |    |
| Parral    | Dianne   | Bishop Fitzgerald Middle School       | Imparral@gmail.com  | 54017033       |    |
| Pereira   | Rodney   | Gibraltar Teacher's Association (GTA) | rodney.pereira@gta.nxuvvt.org.uk<br><i>rodneypereira@schools.gta.gi</i> | 54003214       |    |
| Prescott  | Elaine   | DEHCC                                 | elaine.prescott@gibraltar.gov.gi  | 54004530       |   |
| Stagnetto | Lewis    | The Nautilus Project                  | info@thenautilusproject.co  | 56001637       |   |
| Triay     | Conchita | Environmental Safety Group (ESG)      | familytc@yahoo.co.uk  | 54003074       |  |
| Wahnon    | Kevin    | St. Bernard's First School            | kevin.wahnon@education.gov.gi   | 54022741       |  |

ClimACT project is co-financed by the European Regional Development Fund (ERDF)

## 9. Photos of attendees



From left to right: GP, EP, KW, LP, BG, CG, JL, CG, LH, CT



From left to right: KW, LP, BG, CG, JL, CG, LH, CT, RP, JH



From left to right: GP, EP, KW, LP, BG, CG, JL, CG, LH, CT, RP, JH

## ClimACT – SOE1/P3/P0429

UNIGIB / DOE / DEHCC

### SUSTAINABLE SCHOOLS COMMITTEE MEETING

**Date:**

Wed, 7<sup>th</sup> Nov 2018

**Time:**

4pm

**Venue:**

University of Gibraltar, Boardroom

**Attendees (in alphabetical order, by surname);**

|   |                      |  |
|---|----------------------|--|
| 1 | Sean Ballester (SB)  | Westside School (Co-opted member)  |
| 2 | Amaia Fernandez (AF) | University of Gibraltar  |
| 3 | Hannah Gonzalez (HG) | University of Gibraltar  |
| 4 | Jackie Linares (JL)  | Department of Education (DoE), Education Adviser   |
| 5 | Denise Marsden (DM)  | Bayside Comprehensive School   |
| 6 | George Parody (GP)   | University of Gibraltar  |
| 7 | Lianne Parral (LP)   | Bishop Fitzgerald Middle School  |
| 8 | Elaine Prescott (EP) | HM GoG Department of the Environment, Heritage and Climate Change (DEHCC), Assistant Environment Officer |
| 9 | Kevin Wahnnon (KW)   | St. Bernard's First School   |

**Proposed agenda points:**

1. ClimACT seminar 27 & 28 Sept 2018. Outcomes and discussion points. (ALL)
2. Briefing on the recent Brussels events (RegioStars and Slam Awards). (AF/GP)
3. Presentation of ClimACT report to schools. (EP/AF)
4. Outcomes of the last Working Party & NGO meetings held in June 2018. (ALL)
5. Agenda and content for the next Working Party meeting. (ALL)
6. Governor's interest. (AF)

**Outline of the meeting:**

At the beginning of the meeting, attendees were asked to fill in the feedback form in relation to the ClimACT progress meeting that was held in Gibraltar on the 27&28 September 2018.

AF presented the agenda points and DM asked if the Governor's interest had any connection with the Duke of Edinburgh Award. AF replied that HE's has probably read latest news on ClimACT (seminar in

Gibraltar and events in Brussels), which have brought his attention, as he is quite involved with education initiatives.

The group continued with the agenda points:

### **1. ClimACT seminar 27 & 28 Sept 2018. Outcomes and discussion points.**

AF showed some notes taken by JL during the two-day seminar. The discussion points included the following:

- Final event in Lisbon, 9-10th May 2019. Which would be the activities for student and teachers? Would they be separate or joint activities? Who would be part of the Gibraltar delegation?
- Impact of environmental audits on schools. We should make schools aware and encourage them to measure their own energy use.
- Educational tools and activities were presented by ClimACT at the seminar - project based learning, e-learning platform. Are these materials worth presenting at the next Working Party?
- Maintain network of ClimACT schools – how could ClimACT schools stay connected? The idea of an easy-to-use blog was welcomed, but who would manage and administer that?

The discussion points led to the following conclusions:

- KW and LP mentioned that their respective schools have now started collecting monthly water and electricity bills in order to be able to monitor progress, apply measures and reduce consumption. KW has tweaked water valves at school so that they allow less water to run through. KW now needs to prove efficiency of the action by monitoring consumption and cost.
- Year 9 students would be the best group to take to Lisbon, given their age and 'less busy' schedule in May.
- Timeline to prepare for Lisbon is tight. Core Group members enquired for more information about the final event, the activities planned for Lisbon and the preparations/student competitions leading up to the event (the Core group did not know if students are expected to present in Lisbon and if all countries are running the same competitions).
- Could the development of an Eco-Code be a competition amongst Gibraltar schools? LP said they are currently designing one at her school. However, middle schools would not be part of the Gibraltar delegation attending Lisbon.
- The Core Group is also aware of financial constraints. ClimACT has around £6,000 to cover travel and accommodation costs, primarily for Core Group members. It was suggested that students could fundraise to cover the travel costs and that parents or Dept. Education could also cover travel costs.

- However, before proceeding with any preparations, the activities and arrangements for Lisbon have to be very clear.
- LP has tried to access the e-learning platform but could not get through. AF will check this issue with the project coordinator. The platform should be accessible by all to test/check the modules of the e-learning. Core Group members should try to access and check the content of the platform.
- LP mentioned that Bishop Fitzgerald uses WIX.com platform to share contents. She suggested that local schools could use a similar platform to share content re ClimACT, sustainability and education. A drawback mentioned by the group was the lack of staff to keep up with progress and report. SB said it would be ideal to have staff released from teaching, just for a few hours per week, to be able to progress on these matters more efficiently. At present, teachers' commitment is on a voluntary basis and often, a lack of time slows down progress of activities. AF commented that students taking part in 'eco-groups' could be in charge of uploading content and keeping information on the respective schools up to date.

## **2. Briefing on the recent Brussels events.**

GP and AF spoke about the ClimACT events in Brussels, which were held at the beginning of October.

RegioStars ceremony was very well organised, the auditorium was full. Kids and jugglers presented nominees in each category in an original way, which kept the audience engaged at all times. ClimACT was competing against three projects in the Low Carbon Economy category and against twenty-five projects from all categories for the public choice award. Within its category, ClimACT was beaten by the TEKIDE project, which involves recycling of textile fabrics to produce clothes. Apparently, TEKIDE is yet in early stages of development, just testing the technology behind the recycling, far from accessing the market place. Rumours were that the jury's decision was somehow influenced by politics. However, achieving the RegioStars nomination in a still ongoing initiative recognises the tangible results it has attained already, provides prestige to the project and acknowledges the work conducted in the field of education and sustainable development.

Rehearsals for the Slam performance took place throughout the several days that the group was in Brussels, in various places including the venue of the event. There were six projects in total competing at Slam. The voting took place after all had performed, by using a mobile application only available to the audience attending the event. Due to a technical problem, the voting had to be revisited and after the initial excitement of appearing first on the rank, ClimACT was pushed down.

ClimACT won the second prize, but with no doubt it was the most cheered project of all. Slam competition brought together four kids that did not know each other but who became friends after the event. It was a very positive experience for all involved, and specially for the students.

### **3. Presentation of ClimACT report to schools.**

The group discussed the best way to present the environmental reports to schools.

It was suggested that separate visits to schools would work better to present and hand over the results (as opposed to inviting them all to a joint meeting at the University).

However, it was agreed that reports would be sent to schools by email first and that face-to-face meetings would be arranged afterwards.

EP shall arrange the meetings with schools and AF will accompany her. EP shall inform JL once the meetings have been scheduled so that JL can attend, agenda permitting.

### **4. Outcomes of the last Working Party & NGO meetings.**

AF showed the notes from last meetings in an exercise to catch up with the Working Party activity.

The items discussed included the following:

- Schools should reach the Foundation Stage at the beginning of 2018/19 Academic Year - It should be in place before the next Working Party meeting.
- Schools should progress on Stages during the 18/19 Academic Year. It shall be the pilot testing of the scheme.
- Schools to establish a baseline (i.e. number of credits they currently qualify for). Consider applying uneven points.
- Activities require more detail – and ideally make everything developmental.
- Proof of activity/achievement should not be cumbersome.
- The list of activities is a working document. Schools welcomed to propose ideas.

### **5. Agenda and content for the next Working Party meeting.**

Further to the above, the group discussed the content and possible date for the next Working Party.

It was agreed that a follow-up meeting is necessary in order to start rolling out the scheme. At this point and by the next meeting, schools should be able to:

- Report on the number of credits they currently account for. This will allow for establishing a baseline of credits per school. This should be in place by the next Working Party meeting.
- Once the baseline is set, it should be easier to establish the number of credits to qualify for each stage, or perhaps a gradual increase in credits (in %).
- The Working Party asked for more detail in activities, but Core Groups feels that schools can start with activities as they are. The list of activities is a working document and it can be amended as the work progresses.
- Schools would need an easy template to report progress on activities.



The Working Party meeting was scheduled for Wednesday 21<sup>st</sup> November at 4pm at the University. JL shall make the call for teachers to attend.

#### **AOB**

- GP left the meeting at 5pm. AF gave him a replica of the Slam trophy and a card for Lauren Gear (the student from Westside who represented Gibraltar in Brussels).
- DoE and DEHCC are committed to ClimACT until the project end date (June 2019). By then, ClimACT will have assisted schools in establishing solid foundations in order to continue with the work developed and progress on the Sustainable Schools framework. The approach of the Commissioner for Sustainable Development, who has already met with officers from DoE (JL) and DEHCC (EP), should acknowledge such groundwork and adapt to the work environment established already.
- There was no time to discuss Agenda point 6. AF will inform the group of any updates.

#### **Action points**

- AF to draft a template for activity report. Accessible and editable online. To be shared with the Core Group for feedback.
- AF to prepare an agenda-pwp for the next Working Party.
- JL to inform Working Party members of the next meeting.
- Core group members to check teaching and learning content of ClimACT.net.
- AF to enquire with Marta/Joana for more information about the final conference in Lisbon.
- Once environmental reports are ready, EP will schedule meeting with schools.

## 6. List of attendees

ClimACT - Acting for the transition to a low carbon economy in schools – development of support tools (SOE1/P3/P0429)

### Attendance List

Title of the meeting: ClimACT Sust. Schools Core Committee

Date: 07 / 11 / 2018 WP n.º 1 / 3

Activity n.º: 1.2 / 3.1

Start time: 16 :00 End time: 18 :15

Venue: University of Gibraltar (Boardroom)

Beneficiary Leader:

☐ IST ☐ ISQ ☐ EDIGREEN ☐ ABAB ☐ CIEMAT  
☐ USE ☐ ULR ☐ VLR ☒ UNIGIB

In alphabetical order

| Surname   | Name   | Organisation/School                  | E-mail  | Contact Number | Signature   |
|-----------|--------|--------------------------------------|---|----------------|---|
| Ballester | Sean   | Westside School                      | s_ballester@outlook.com;<br>s.ballester@westsideschoolgibraltar.com | 54003245       |   |
| Fernandez | Amaia  | University of Gibraltar              | amaia.fernandez@unigib.edu.gi                                       | 54025116       |  |
| Gonzalez  | Hannah | University of Gibraltar              | hannah.gonzalez@unigib.edu.gi                                       | 54014623       |  |
| Linares   | Jackie | Dep of Education (Education Adviser) | jackie.linares@gibraltar.gov.gi                                     | 56000321       |  |

ClimACT - Acting for the transition to a low carbon economy in schools – development of support tools (SOE1/P3/P0429)

| Surname  | Name   | Organisation/School                                  | E-mail  | Contact Number | Signature   |
|----------|--------|--|---|----------------|---|
| Marsden  | Denise | Bayside  | dmarsden@baysideschoolgibraltar.gi                    | 54863000       |  |
| Parody   | George | University of Gibraltar                              | geopar@gibtelecom.net;<br>george.parody@unigib.edu.gi | 54007728       |  |
| Parral   | Lianne | Bishop Fitzgerald Middle School                      | Imparral@gmail.com                                    | 54017033       |  |
| Prescott | Elaine | Dep Environment, Heritage and Climate Change (DEHCC) | elaine.prescott@gibraltar.gov.gi                      | 54004530       |  |
| Wahnon   | Kevin  | St. Bernard's First School                           | kevin.wahnon@education.gov.gi                         | 54022741       |  |

## 7. Photos of attendees



From left to right (clockwise): SB, KW, DM, GP, JL, EP, HG, LP



From left to right (clockwise): GP, JL, EP, HG, LP, SB, KW, DM



## ClimACT – SOE1/P3/P0429

### CLIMACT / SCHOOL REPRESENTATIVES

**Date:**

Thursday, 6<sup>th</sup> Dec 2018

**Time:**

4pm

**Venue:**

University of Gibraltar, Conference Hall

**Attendees (in alphabetical order);**

| No | Surname     | Name     | Organisation/School               |
|----|-------------|----------|-----------------------------------|
| 1  | Marsden     | Denise   | Bayside School                    |
| 2  | Golt        | Monica   | Bishop Fitzgerald Middle School   |
| 3  | Howard      | Natalia  | Bishop Fitzgerald Middle School   |
| 4  | Mellin      | Jemila   | Bishop Fitzgerald Middle School   |
| 5  | Moreno      | Dale     | Bishop Fitzgerald Middle School   |
| 6  | Parral      | Lianne   | Bishop Fitzgerald Middle School   |
| 7  | Russo       | Ian      | Bishop Fitzgerald Middle School   |
| 8  | Prescott    | Elaine   | DEHCC                             |
| 9  | Linares     | Jackie   | Dept of Education                 |
| 10 | Bosano      | Gianna   | Gibraltar College                 |
| 11 | Piñero      | Lisanne  | Governor's Meadow First School    |
| 12 | Lomax       | Robert   | Hebrew Primary School             |
| 13 | Garner      | Gaby     | Loreto Convent (Middle School)    |
| 14 | Federico    | Cathy    | St. Anne's Middle School          |
| 15 | Pardo-Gomez | Lizanne  | St. Anne's Middle School          |
| 16 | Benzecry    | Elaine   | St. Bernard's First School        |
| 17 | Wahnon      | Kevin    | St. Bernard's First School        |
| 18 | Clinton     | Ewen     | St. Joseph's Middle School        |
| 19 | Capurro     | Ian      | St. Mary's First School           |
| 20 | Caruana     | Charlene | St. Mary's First School           |
| 21 | Enriles     | Lorraine | St. Paul's First School           |
| 22 | Aguilera    | Jerry    | St. Paul's First School + Nursery |
| 23 | Fernandez   | Amaia    | University of Gibraltar           |
| 24 | Parody      | George   | University of Gibraltar           |
| 25 | Coelho      | Anne     | Westside School                   |

**Apologies;**

- St. Joseph's First School
- St. Bernard's Middle School

**Agenda points:**

- 1) Sustainable Schools: Aim, Structure and Stages
- 2) Activities and credits
- 3) Activity report
- 4) Discussion & Way forward

**Outline of the session, and summary of discussions:****1. Sustainable schools: Aim, Structure and Stages**

- Jackie welcomed the attendees and started the session by reminding them of the aim for 'Sustainable Schools Gibraltar'. She presented the structure (i.e. Foundation, Bronze, Silver and Gold Stages) to those teachers not yet familiarised with the scheme.
- Jackie described the elements of learning that schools should link up to the rolling out of the programme: teamwork, communication and creation, personalisation of learning, critical thinking and real-world engagement.
- Jackie emphasised that schools should not take this initiative on a competitive basis since the aim is to attain quality and competences, as opposed to completing activities just to 'tick-boxes' to progress on the stages.
- The objective is to embed sustainability within schools' ethos and to gain critical learning skills, which takes time. If the progress is rushed, it could become a burden and schools may lose motivation and interest in the programme. In order to be a success, schools must enjoy the process and for that, there has to be a reasonable balance between yearly objectives and the effort that this implies for each school.

**2. Activities and credits**

- Jackie showed the list of activities and credits that were identified by teachers as a result of the various working party meetings.
- She mentioned that activities could be personalised per school and that the list is not restrictive. As such, activities can be added in order to accommodate each school's progress.
- Having qualified for a stage (e.g. Bronze) means that a school has attained a certain level of competence. Such level of competence implies that the school has successfully embedded initiatives within its learning experience. It was then explained that once initiatives have become part of the school ethos, it should follow that they will be maintained even when progressing to the next level. Therefore, after a school has qualified for a particular stage, that recognition should not be taken away. These stages should be maintained in the long term, however if a school cannot prove they are maintaining these standards, they will be asked to restart the process.



- It is key to have the Foundation Stage well established before schools move on to the next stages. Without a functional school committee in place, it would become harder and harder to progress onto the next stages while maintaining and embedding previous initiatives.
- Jackie reiterated that teachers should pass on the information within their schools and empower colleagues and students to be proactive. Schools need to be aware of the structure so that they can plan accordingly and progress effectively. Schools could also link their activities with international initiatives.

### 3. Activity report

- Amaia presented the template for reporting school activities. The aim of the template is to facilitate Jackie and the Department of Education's work on monitoring the progress by having all schools reporting back to them in the same format. The content of the report is basic but enough to have an overview of the schools' activities and progress.
- The document is available online and it updates automatically as schools input their activities. In addition, schools accessing the document would be able to see what other schools and colleagues have done in a particular area, meaning they will be able to benefit from sharing ideas.
- Teachers suggested changing the title of the box 'Proof of achievement' to a heading that sounded less demanding, in order to lift pressure off the schools.
- George emphasised that schools must have their foundation Stage in place before they can start reporting on activities. However, for those schools willing to complete the Activity Report, credits shall only be taken into account towards their progress when their Foundation Stage has been well-established.

### 4. Discussion and way forward

- At the last Working Party (June 2018) teachers grouped the activities by credits (based on their level of difficulty), but did not have the time to allocate the credits that would qualify for each Stage. Therefore, since schools are trialling the scheme, Jackie suggested the following credits to kick-start the programme, which would be subject to revision, as the scheme develops:
  - o 100 credits to qualify for Bronze
  - o 200 credits to qualify for Silver
  - o 300 credits to qualify for Gold
- The activities undertaken to progress on to the different stages cannot be the same from one level to another. Once a level is attained, those activities should become embedded into schools' ethos and therefore schools should aim to include new initiatives in their educational experience.

- Once a particular stage is attained (level of competence), schools could stay on the same stage for as long as they wish, provided that activities are sustained and proof is shown every 3 years.
- It was suggested that schools could be invited to present their progress at the next Working Party meeting (Feb 2019). Sharing achievements could help other schools to conceive ideas and encourage colleagues. Teachers also suggested that they could do a brainstorming session at the next Working Party.
- As a school initiative, the trip to the Los Barrios waste plant was highly recommended by the teachers attending the meeting. Some of them had already been with their school year groups and said it was eye-opening to see, first-hand, the sorting and recycling facilities as well as the disposal of waste in the landfill.
- Teachers proposed that a visit to the plant in Los Barrios could be planned during an in-service, as it only takes a few hours, which would allow teachers to continue with their training in the afternoon. This way, teachers could experience the visit themselves before taking their year groups.
- Teachers also suggested that a local visit to the Eco-Park facilities could be arranged, as well as another visit to Metal Rock. However, the latter would not be recommended for the younger children, due to safety aspects.
- As the scheme does not aim to be competitive and is not intended to make schools rush to progress, attendees suggested loosening the proposed milestones and dates. As such, it was agreed to push the Foundation Stage forwards, from December 2018 to the end of the 18/19 Academic year. This will then relieve pressure from the schools themselves while preserving a healthy level of motivation.

## 5. Conclusions & Action Points

- Send power point presentation to schools (Jackie Linares).
- Achievement of the Foundation Stage by the end of the 18/19 Academic year.
- Add NGO's details to the Activity Report.
- Teachers to provide contact details of Los Barrios waste plant/Metal Rock etc.
- Schools to present achievements/progress at the next Working Party meeting.

## 6. AOB

- After teachers had left, George Parody mentioned that the Working Party members could work on a 'ClimACT initiative', similar to that of the World Environment Day (WED). However this idea would be steered solely by the schools themselves and involve just the schools. E.g. a 'Sustainable Schools Day' that would belong to schools.

## 7. List of attendees

ClimACT - Acting for the transition to a low carbon economy in schools – development of support tools (SOE1/P3/P0429)

### Attendance List

Title of the meeting: CLIMACT Working Party

Date: 06 / 12 / 2018 WP n.º 1 / 3

Activity n.º: 1.2 / 3.1

Start time: 16 :00 End time: 17 :15

Meeting Venue (city and country): University of Gibraltar (Conference Hall)

Beneficiary Leader:

☐ IST    ☐ ISQ    ☐ EDIGREEN    ☐ ABAE    ☐ CIEMAT  
☐ USE    ☐ ULR    ☐ VLR    ☒ UNIGIB

*In alphabetical order*

| Surname   | Name    | Organisation/School       | E-mail  | Contact Number | Signature        |
|-----------|---------|---------------------------|---|----------------|------------------|
| Andrews   | Lizanne | St. Anne's Middle School  | sams.deputy@schools.edu.gi  | 54011758       |                  |
| Ballester | Sean    | Westside School           | s_ballester@outlook.com;<br>s.ballester@westsideschoolgibraltar.com | 54003245       |                  |
| Beltran   | Mark    | St. Joseph's First School | mbeltran@hotmail.co.uk  | 56000114       | <u>Xmas Fair</u> |
| Berllaque | Jénique | Westside School           | j.berllaque@westsideschoolgibraltar.com                             | 54023208       |                  |

ClimACT - Acting for the transition to a low carbon economy in schools – development of support tools (SOE1/P3/P0429)

| Surname | Name        | Organisation/School            | E-mail                                 | Contact Number | Signature |
|---------|-------------|--------------------------------|--|----------------|-----------|
| Borrell | Claire      | Westside School                | c.borrell@westsideschool.gibraltar.com | 54003957       |           |
| Burgod  | Charmaine   | St. Joseph's First School      | SJFS.deputyhead@schools.edu.gi         | 54024389       | Xmas Fair |
| Caruana | Charlene    | St Mary's First School         | Smfs.deputyhead@schools.edu.gi         | 54012400       |           |
| Catania | Pamela      | Governor's Meadow First School | pcatania@hotmail.com                   | 54026341       |           |
| Catania | Lijanna     | Westside School                | l.catania@westsideschoolgibraltar.com  | 54003997       |           |
| Clinton | Jeremy      | St. Joseph's First School      | SJFS.deputyhead@schools.edu.gi         | 58469000       | Xmas fair |
| Clinton | Ewen        | St. Joseph's Middle School     | sjms.deputy@schools.edu.gi             | 20075615       |           |
| Coelho  | Anne        | Westside School                | a.coelho@westsideschoolgibraltar.com   | 54022181       |           |
| Cortes  | Christopher | St. Bernard's Middle School    | christopher.cortes@schools.edu.gi      | 20073863       |           |

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| Surname   | Name           | Organisation/School   | E-mail                               | Contact Number | Signature   |
|-----------|----------------|---|--------------------------------------|----------------|---|
| Cruz      | Priscilla      | Notre Dame First School                                       | cruzp@gibtelecom.net                 | 20075182       |   |
| Enriles   | Lorraine       | St Paul's First School  | lorraine.enriles@education.gov.gi    | 54014086       |    |
| Federico  | Cathy          | St Anne's Middle School                                       | cathy.federico@education.gov.gi      | 54012102       |    |
| Fernandez | Amaia          | University of Gibraltar                                       | amaia.fernandez@unigib.edu.gi        | 54025116       |    |
| Fernandez | Chrisanne      | Notre Dame First School                                       | chrisannefernandez281@gmail.com      | 54002434       |   |
| Ferro     | Fiona Victoria | Governor's Meadow First School                                | gmfs.headteacher@schools.edu.gi      | 20075772       |   |
| Foster    | Sarah          | Dep of Edu B.E.S.T (Behavioural and Educational Support Team) | s.foster@westsideschoolgibraltar.com | 54032923       |   |
| Garner    | Gaby           | Loreto Middle   | ggarner@loreto.gi                    | 57967000       |  |
| Golt      | Monica         | Bishop Fitzgerald Middle School                               | monica.golt@schools.edu.gi           | 54010665       |  |



ClimACT - Acting for the transition to a low carbon economy in schools – development of support tools (SOE1/P3/P0429)

| Surname   | Name     | Organisation/School   | E-mail                             | Contact Number    | Signature  |
|---|----------|---|------------------------------------|-------------------|--|
| Grech   | Robert   | Loreto Convent (First School)                               | rgrech@loreto.gi                   |                   |  |
| Howard  | Natalia  | Bishop Fitzgerald Middle School                             | natalia.howard@education.gov.gi    | 54024658          |   |
| Linares   | Jackie   | Dep of Education (Education Adviser)                        | jackie.linares@gibraltar.gov.gi    | 56000321          |   |
| Lomax   | Robert   | Hebrew Primary School                                       | hps.head@schools.edu.gi            | 65906<br>20076906 |   |
|  | Cathy    | <del>Bishop Fitzgerald Middle School</del> <i>St Anne's</i> | cathy_lopez2102@hotmail.com        | 54012102          |   |
| Marsden   | Caitlin  | Bayside School  | cmarsden@baysideschoolgibraltar.gi | 54023734          |  |
| Marsden   | Denise   | Bayside School  | dmarsden@baysideschoolgibraltar.gi | 54863000          |  |
| Martyn  | Paul     | Prior Park School   | pmartyn@priorparkschools.com       | 54012367          |  |
| Mcneice   | Jonathan | Hebrew Primary School                                       | hps.deputy@schools.edu.gi          | 54009372          |  |



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ClimACT - Acting for the transition to a low carbon economy in schools – development of support tools (SOE1/P3/P0429)

| Surname     | Name    | Organisation/School             | E-mail  | Contact Number | Signature |
|-------------|---------|---------------------------------|---|----------------|-----------|
| Morgan      | Nyween  | St Paul's First School          | nyween.morgan@schools.edu.gi                          | 54011323       |           |
| Neish       | Crissy  | Loreto Convent                  | cneish@loreto.gi                                      | 54023458       |           |
| Owen        | Rebecca | Prior Park School               |   |                |           |
| Pardo-Gomez | Lizanne | St. Anne's Middle School        | lizannepardo@yahoo.com                                | 20077161       |           |
| Parody      | George  | University of Gibraltar         | geopar@gibtelecom.net;<br>george.parody@unigib.edu.gi | 54007728       |           |
| Parral      | Lianne  | Bishop Fitzgerald Middle School | lmparral@gmail.com                                    | 54017033       |           |
| Piñero      | Lisanne | Governor's Meadow First School  | leblagg@yahoo.com                                     | 54022402       |           |
| Piri        | Monica  | St. Paul's First School         | monica.piri@schools.edu.gi                            | 54001718       |           |
| Pitchford   | Mandy   | Loreto Convent (First School)   | mpitchford@loreto.gi                                  |                |           |

ClimACT - Acting for the transition to a low carbon economy in schools – development of support tools (SOE1/P3/P0429)

| Surname       | Name       | Organisation/School                                  | E-mail                             | Contact Number                | Signature   |
|---------------|------------|--|------------------------------------|-------------------------------|---|
| Prescott      | Elaine     | Dep Environment, Heritage and Climate Change (DEHCC) | elaine.prescott@gibraltar.gov.gi   | 54004530                      |  |
| Prior-Hawkins | Jacqui     | Bishop Fitzgerald Middle School                      | jpriorhawkins45@gmail.com          | 54019588                      |   |
| Ramagge       | Arthur     | Gibraltar College                                    | aramagge@gibc.edu.gi               | 20045093<br>2037<br>(centrex) |   |
| Reyes         | Richard    | Bishop Fitzgerald Middle School                      | richard.reyes@schools.edu.gi       | 20077162                      |   |
| Russo         | Ian        | Bishop Fitzgerald Middle School                      | bfms.geo@gmail.com                 | 20077162                      |  |
| Sanguinetti   | Jessica    | St Mary's First School                               | smfs.head@schools.edu.gi           | 54006673                      |   |
| Saxby         | Paula      | St. Bernard's Middle School                          |                                    |                               |   |
| Sciacaluga    | Jenny      | St. Bernard's First School                           | jennysciacaluga@hotmail.com        | 54015589                      |   |
| Ullger        | Chris-Anne | Bayside School                                       | caullger@baysideschoolgibraltar.gi | 54025778                      |   |

ClimACT - Acting for the transition to a low carbon economy in schools – development of support tools (SOE1/P3/P0429)

| Surname  | Name      | Organisation/School                                  | E-mail                                | Contact Number | Signature   |
|----------|-----------|--|---------------------------------------|----------------|---|
| Wahnon   | Kevin     | St. Bernard's First School                           | kevin.wahnon@education.gov.gi         | 54022741       |    |
| Walsh    | Catherine | Dep Environment, Heritage and Climate Change (DEHCC) | catherine.walsh@gibraltar.gov.gi      | 54028502       |   |
| Mellin   | Jemila    | Bishop Fitzgerald Middle School                      | jemila.mellin@education.gov.gi        | 54015930       |    |
| Aguilera | Jerry     | St Paul's First Nursery                              | spfs.deputy@schools.education.gov.gi  | 54005669       |    |
| Berezny  | Elaine    | St Bernard's First School                            | elaine.berezny@education.gov.gi       | 54015452       |    |
| Moreno   | Dale      | Bishop Fitzgerald Middle School                      | dale.moreno@education.gov.gi          | 56001504       |    |
| Bosco    | Gianna    | GIBRALTAR COLLEGE                                    | gianna.bosco@schools.education.gov.gi | 54038370       |   |
| Canonica | Charles   | St. Mary's First                                     | smfs.deputy@schools.education.gov.gi  | 54012400       |  |
| Capurro  | Ian       | St. Mary's First                                     | ian.capurro@education.gov.gi          | 54021602       |  |

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## 8. Photos of the meeting



Jackie Linares addressing Agenda Point 4



Attendees discussing after Jackie's presentation



Jackie presenting the way forward

## ClimACT – SOE1/P3/P0429

UNIGIB / DOE / DEHCC

### SUSTAINABLE SCHOOLS COMMITTEE MEETING

**Date:**

Wed, 6<sup>th</sup> February 2019

**Time:**

4pm

**Venue:**

University of Gibraltar, Boardroom

**Attendees (in alphabetical order, by surname);**

|   |                      |  |
|---|----------------------|--|
| 1 | Sean Ballester (SB)  | Westside School (Co-opted member)  |
| 2 | Amaia Fernandez (AF) | University of Gibraltar  |
| 3 | Hannah Gonzalez (HG) | University of Gibraltar  |
| 4 | Jackie Linares (JL)  | Department of Education (DoE), Education Adviser   |
| 5 | Denise Marsden (DM)  | Bayside Comprehensive School   |
| 6 | George Parody (GP)   | University of Gibraltar  |
| 7 | Elaine Prescott (EP) | HM GoG Department of the Environment, Heritage and Climate Change (DEHCC), Assistant Environment Officer |
| 8 | Kevin Wahnnon (KW)   | St. Bernard's First School   |

**Proposed agenda points:**

1. ClimACT Final Event, 9<sup>th</sup> & 10<sup>th</sup> May 2019
  - a. Young Enterprise Students?
  - b. Dates of students' & teachers' availability
  - c. Costs of travel/accommodation
  - d. Tentative numbers
2. Agenda and content for the next Working Party/NGO meeting, 27<sup>th</sup> February 2019
3. Setting up of Student Working Party
4. Online platform to share activities and progress beyond ClimACT
5. Governor's interest

**Outline of the meeting:**

At the beginning of the meeting, attendees were asked to sign the attendance register (attached to this document).

AF presented the agenda points and the group commenced with item one:



## **1. ClimACT Final Event, 9th & 10th May 2019**

### **a. Young Enterprise Students?**

The discussion points included the following:

- Final event in Lisbon, 9-10th May 2019; it was agreed that it would make more sense to take a team from the Young Enterprise initiative, rather than pupils from Year 9, taking their different ages and travelling logistics into account.
- There was discussion among the group as to how to decide which group to take and that a meeting with the organisers of the Young Enterprise initiative would probably be most appropriate.
- However when JL arrived, she confirmed that she had already spoken to the relevant people at the Young Enterprise organisation and that those people were on board with the idea. She further confirmed that it would be those groups who had incorporated environmental/sustainable aspects into their Young Enterprise projects that would be considered for the trip to Lisbon. It was also factored in that these groups would need to give their own consent to want to go to Lisbon, but that it would present all the groups with a fantastic opportunity for exposure on a larger scale.
- It was agreed that each group who was willing to, would give a presentation to the ClimACT Core Committee and that the project which best conformed to ClimACT's aims would be picked to go to Lisbon. It was discussed that the criteria that needed to be met was that the aims behind the projects were in line with ClimACT's vision and that the product's potential profit margin would not be taken into account.

### **b. Dates of students' & teachers' availability;**

### **c. Costs of travel/accommodation;**

### **d. Tentative numbers.**

- SB expressed concern about the dates that the Final Event will be taking place. May is usually the time during which local students, at Comprehensive level, take their exams. However, since the Young Enterprise students are AS Level students, it could be more possible that a lot of them would not have exams taking place at the end of the current academic year, given they are following linear formats.
- JL confirmed Ian Torrilla would be sending her the list of students and that this list would be compared against exam dates; this would then enable her to see the feasibility of taking a group to Lisbon.
- AF presented an idea of the costs that the trip would incur and said that she and HG had done some research into the costs of hotels and hostels in Lisbon. She confirmed that the coach trip

would cost in the region of £2,500 inclusive of having the coach driver remain in Lisbon with the group and that they would provide transport in and around Lisbon too.

- It was unanimously agreed that all members who made up a Young Enterprise group would be taken to Lisbon as in other instances and for other competitions, only a portion of the group have been provided for. Therefore, the Core Committee agreed that they were looking at taking possibly 15 people, inclusive of teachers, in total.

## **2. Agenda and content for the next Working Party/NGO meeting, 27th February 2019. (Agenda Point 5 was also incorporated in to this discussion; Governor's interest)**

- The date for the next Working Party meeting was agreed for the 27th February at 4pm. JL said she would send an email contacting the members of the Party and inform them of the date and time and asking them to attend, if they were able to. It was also agreed that in the same email, she would ask each school to provide two or three photos of their progress and initiatives and that all the photos would then be collated in to a general PowerPoint presentation which the core group would present to the schools so each could celebrate each other's accomplishments.
- AF confirmed she would send an email to the NGO's with the same information and inviting them to also attend. AF also informed the group that His Excellency is very interested in ClimACT and their work so she would be sending an email to his PA to ask if HE was able to attend on the 27th too.
- After discussion, it was agreed that two or three schools (possibly Governor's Meadow, Hebrew Primary school and the Gibraltar College) would be asked to give short presentations on their achievements so far and that it would be a chance to showcase their progress, as well as a way to share ideas with other schools. It was agreed that the NGO's would not be asked to give presentations as well, given the time constraints. However, if they so wished, they could give a small update regarding their engagement with local schools this year.
- SB also mentioned that he felt it might be a good idea to share ClimACT's video at the beginning of the meeting. The teachers had not been able to see it when it had been unveiled during the seminar in September. The rest of the group were in agreement with this.

### **AOB**

- It was agreed that agenda points 3 and 4 would be discussed in more depth during a future meeting.
- In respect of point 4, DM mentioned that in her school, they use Schoology as their main online platform and information is shared through this.

- The setting up of a Student working party is to be discussed in more depth during the Working Party meeting on 27th February.

#### **Action points**

- JL to inform Working Party members of the next meeting and request photos of progress/initiatives from them.
- AF to send email to NGO group and Governor's PA to inform them of meeting on 27th February.
- JL to liaise with Ian Torrilla regarding the list of students involved in the Young Enterprise initiative and feasibility of taking a group to Lisbon in light of exam dates.
- When confirmed, Young Enterprise groups whose projects have environmental aspect to give presentations to Core Committee (possibly late March) in order to choose who will go to Lisbon.
- SB to look at the Young Enterprise (Y.E.) judging criteria and to put together sustainability criteria in relation to ClimACT in order to select a winning team for Lisbon.
- JL, GP, AF, EP and HG to meet on Thursday 14th February to further discuss the PowerPoint presentation and agenda for the meeting on 27th February.

### 3. List of attendees

ClimACT - Acting for the transition to a low carbon economy in schools - development of support tools (SOE1/P3/P3422)

Interreg Sudoe  ClimACT

**Attendance List**

Title of the meeting: CLIMACT CORE COMMITTEE

Date: 06 / 02 / 2019 WP n.º 1 / 3 Activity n.º: 1.1 / 3.1

Start time: 10:00 End time: -

Venue: University of Gibraltar (Boardroom)

Beneficiary leader: ☐ IST ☐ ISO ☐ EDIGREEN ☐ ABAR ☐ CEMAT  
☐ USE ☐ ULN ☐ VLN ☒ UNIGIB

In alphabetical order:

| Surname   | Name   | Organisation/School                  | E-mail  | Contact Number | Signature   |
|-----------|--------|--------------------------------------|---|----------------|---|
| Ballester | Sean   | Westside School                      | s_ballester@outlook.com;<br>s.ballester@westsideschoolgibraltar.com | 54003245       |    |
| Fernandez | Amalia | University of Gibraltar              | amalia.fernandez@unigib.edu.gi                                      | 54025416       |   |
| Gonzalez  | Hannah | University of Gibraltar              | hannah.gonzalez@unigib.edu.gi                                       | 54014623       |  |
| Linares   | Jackie | Dep of Education (Education Adviser) | jackie.linares@gibraltar.gov.gi                                     | 56000321       |   |

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Page 1 of 2

ClimACT - Acting for the transition to a low carbon economy in schools – development of support tools (5061/P3/P0429)

| Surname  | Name   | Organisations/School                                 | E-mail  | Contact Number | Signature   |
|----------|--------|--|---|----------------|---|
| Marsden  | Denise | Bayside  | d.marsden@baysideschoolgibraltar.gl                 | 54853000       |  |
| Parody   | George | University of Gibraltar                              | geopar@gbtfa.com.net<br>george.parody@unigib.edu.gl | 54007728       |  |
| Parral   | Lianne | Bishop Fitzgerald Middle School                      | lmparral@gmail.com                                  | 54017033       |   |
| Prescott | Elaine | Dep Environment, Heritage and Climate Change (DEHCC) | elaine.prescott@gibraltar.gov.gl                    | 54004530       |  |
| Wahnon   | Kevin  | St. Bernard's First School                           | kevin.wahnon@education.gov.gl                       | 54022741       |  |

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#### 4. Photos of attendees



From left to right (clockwise): GP, JL, EP, DM, AF, SB



From left to right (clockwise): KW, GP, JL, EP, DM, AF, SB



## ClimACT – SOE1/P3/P0429

### CLIMACT / SCHOOL REPRESENTATIVES & NGOs

**Date:**

Wed, 27<sup>th</sup> Feb 2019

**Time:**

4pm

**Venue:**

University of Gibraltar, Seminar Room 5

**Attendees (in alphabetical order);**

| No | Surname       | Name      | Organisation/School  |
|----|---------------|-----------|--|
| 1  | Abecasis      | Leon      | Gibraltar College  |
| 2  | Aguilera      | Jerry     | St. Paul's First School + Nursery                              |
| 3  | Baccrese      | Elaine    | St. Anne's Middle School                                       |
| 4  | Ballester     | Sean      | Westside School  |
| 5  | Beltran       | Mark      | St. Joseph's First School                                      |
| 6  | Bosano        | Gianna    | Gibraltar College  |
| 7  | Capurro       | Ian       | St. Mary's First School  |
| 8  | Caruana       | Charlene  | St. Mary's First School  |
| 9  | Clinton       | Ewen      | St. Joseph's Middle School                                     |
| 10 | Coelho        | Anne      | Westside School  |
| 11 | Enriles       | Lorraine  | St. Paul's First School  |
| 12 | Fernandez     | Amaia     | University of Gibraltar  |
| 13 | Foster        | Sarah     | Dept of Edu B.E.S.T (Behavioural and Educational Support Team) |
| 14 | Garcia        | Nadyle    | St. Anne's Middle School                                       |
| 15 | Gilder        | Christine | Alameda Botanic Gardens  |
| 16 | Golt          | Monica    | Bishop Fitzgerald Middle School                                |
| 17 | Latin         | Elaine    | Notre Dame First School  |
| 18 | Howitt        | Janet     | Environmental Safety Group (ESG)                               |
| 19 | Linares       | Jackie    | Dept of Education  |
| 20 | Marsden       | Denise    | Bayside School   |
| 21 | Moreno        | Dale      | Bishop Fitzgerald Middle School                                |
| 22 | Parody        | George    | University of Gibraltar  |
| 23 | Parral        | Lianne    | Bishop Fitzgerald Middle School                                |
| 24 | Piñero        | Lisanne   | Governor's Meadow First School                                 |
| 25 | Prescott      | Elaine    | DEHCC  |
| 26 | Prior-Hawkins | Jacqui    | Bishop Fitzgerald Middle School                                |
| 27 | Ramagge       | Arthur    | Gibraltar College  |
| 28 | Reyes         | Katrin    | St. Paul's First School  |
| 29 | Russo         | Ian       | Bishop Fitzgerald Middle School                                |
| 30 | Sanguinetti   | Arianne   | St. Joseph's First School                                      |
| 31 | Saxby         | Paula     | St. Bernard's Middle School                                    |
| 32 | Triay         | Conchita  | Environmental Safety Group (ESG)                               |
| 33 | Wahnon        | Kevin     | St. Bernard's First School                                     |

**Agenda points:**

- 1) ClimACT video
- 2) Sustainable Schools: Aim, structure and progress
- 3) Presentations from Gibraltar College of Further Education (GCFE), Hebrew Primary School (HPS) and Governors Meadow First School (GM).
- 4) Discussion

**Outline of the session, and summary of discussions:****1. ClimACT video**

- Amaia welcomed the attendees and started the session by presenting the short ClimACT video, which was produced in September 2018 for the ClimACT seminar.
- Local students and teachers participate in the video, alongside counterparts from France, Portugal and Spain, as ClimACT is an international initiative.
- The video is publicly available and schools can get inspired by it in order to produce their own Gibraltar video, which could be a collective project. Drama and IT students could be involved in the production of the video, as part of their studies.
- The idea of producing a local video was welcomed positively by the attendees.

**2. Sustainable Schools: Aim, structure and progress**

- Jackie reminded the attendees of the aim for 'Sustainable Schools Gibraltar'. She recapped the elements of learning that schools should link up to the rolling out of the programme: teamwork, communication and creation, personalisation of learning, critical thinking and real-world engagement.
- Jackie quickly run by the structure, stages and credits (i.e. Foundation, Bronze, Silver and Gold Stages), a useful refresher for the teachers and in particular for those new at the Working Party not so familiarised yet with the scheme.
- Jackie reiterated that schools should not take this initiative on a competitive basis since the aim is to attain quality and competences. The objective is to embed sustainability within schools' ethos and to gain critical learning skills, for as long as it takes. Therefore, there is no timeline to complete the programme.
- As such, once a stage is attained (level of competence) schools can stay on the same stage for as long as they wish. The stage (level of competence) would be renewed after a three year period if activities are sustained and proof is shown – relevant Activity Reports should be produced.
- Jackie emphasised that the scheme is still at an early piloting stage and therefore it is subject to amendments and contributions from schools as it develops.

- She quickly showed the list of activities and credits and the template for Activity Report, which has been included in the presentation for reference.

### 3. Presentations from First, Middle and Secondary schools

- Ahead of the meeting schools were asked to produce 2-3 slides including photos and information on initiatives they have carried out in order to give an over view of their work.
- Jackie showed the materials that schools had put together for the meeting. The schools which sent their inputs in time for the meeting had the opportunity to showcase and celebrate their, namely:
  - o St. Joseph's First School & Nursery
  - o St. Mary's First School
  - o St. Bernard's First School
  - o St. Anne's Middle School
  - o Westside Comprehensive School
  - o Bayside Comprehensive School
- Some remarks arising from the discussions were the following:
  - o Eco-warriors in playgrounds are being adopted more and more by schools; it has become a standard practice for many of them.
  - o The creation of Eco-groups or assemblies within schools is gathering momentum and they are increasing in number, activities and responsibility within schools' structure.
  - o Schools are increasing efforts to embed sustainability in their day-to-day lessons. For example, Bayside is committed to run an Environmental Week every other year, which is a whole school approach that incorporates sustainability in every aspect affecting the school.
  - o With so many school activities happening throughout the school year, awareness is increasing towards promoting 'Plastic free events' and '0 residue' activities.
  - o The majority of schools seem to have recycling bins now in place, keeping consistency throughout all the schools, which facilitates the learning when staff or students move from one school to another.
  - o The water fountains recently installed at Westside School attracted significant interest and attendees enquired about the service provider, installation and running costs. The fountains currently at Westside could be used by other schools once Westside has moved to their new premises.
  - o Westside's Eco-Group has produced a webpage which collects the activities carried out at the school and includes testimonials from students. The webpage is currently in working progress but it could be made accessible to all schools in the future and transform it into a joint cross-school project.

#### 4. Presentations from GCFE, HPS and GM

- GCFE, Guianna Bosano and Arthur Ramagge, presented their progress to attendees. This included remarks such as:
  - o A sustainability working group has been established.
  - o Delivery of a 1 year and 5 year plan of action.
  - o Their student handbook and induction lectures include references to the environment and sustainable principles.
  - o The GCFE is looking into including Continuing Professional Development (CPD) in the field of sustainable development.
  - o Production of monthly newsletters with relevant references to environmental initiatives and projects undertaken by the school.
  - o A dedicated wall display which gives visibility to the activities and encourages more initiatives. Only one copy of each material is printed for display. Any additional material is distributed electronically.
  - o GCFE has already planned activities for the next year, which include: printing credits, paperless student applications, air quality monitors in classrooms, filtered water fountains, promotion of Young Enterprise teams, continue to embed environmental topics in subjects and tutorials and the introduction of environmental vocational courses.
- GM, Lisanne Piñero, presented the progress and achievements at her school. It included the following remarks:
  - o Inclusion of sustainability as part of CPD.
  - o The relevance of community projects (e.g. outings to learn about the water catchments). Project based learning (PBL) is gathering momentum.
  - o Significant efforts to embed learning in curriculum are being made.
  - o Implementation of Eco-warriors in the playground alongside a 'Quiet Playground'. The latter provides an additional space for pupils which inspires reflection and encourages questions about the outdoor spaces and the environment.
- HPS (Robert Lomax) was unable to attend the meeting and therefore his presentation was rescheduled for future Working Party meetings.

#### 5. Discussion and Action Points

- As in previous meetings, it was highlighted that the scheme does not aim to be competitive and it is not intended to make schools rush to progress. The aim is that schools enjoy the process whilst they learn throughout the journey. This shall relieve pressure from the schools themselves while preserving a healthy level of motivation.

- Jackie Linares explained that ClimACT will celebrate a final conference in Lisbon in May 2019 and that Young Enterprise students will present their environmental projects at the international conference.

## **6. Action points**

- The next Working Party is likely to be scheduled before Easter. Jackie Linares will make the call in due course. St. Joseph's First school will be invited to present their progress, alongside other schools.
- Attendees suggested that a nice group photo and press release could be prepared to celebrate the closure of the project and the academic year.

## **7. AOB**

- On this occasion, NGOs were invited to the meeting, as they work closely with schools, contributing to the discussion and inspiring ideas.
- A video of Greta Thunberg, a young Swedish activist fighting against climate change, was played on the TV screen after attendees discussed the power of her message (school strikes on Fridays until Governments take action to stop climate change) and the impact she has created in students and schools around the globe.
- Arthur Ramagge (GCFE) enquired about the role of the Commissioner for Sustainable Development. Jackie Linares answered that once ClimACT comes to an end in June 2019, avenues could be explored to marry, in the best possible way, the work that has been carried out by the Working Party with the approach from the Commissioner, where applicable.

## 8. List of attendees

ClimACT - Acting for the transition to a low carbon economy in schools – development of support tools (SDE1/P3/P0429)

**Interreg Sudoe** **ClimACT**

**Attendance List**

Title of the meeting: ClimACT Working Party 4-N501

Date: 27 / 02 / 2019 WP n.º: 1 - 3 Activity n.º: 1.2 - 1.3

Start time: 16:00 End time: 18:30

Meeting Venue (city and country): University of Gibraltar (Seminar Room 5)

Beneficiary Leader: ☐ IST ☐ ISQ ☐ EDIGREEN ☐ ABAE ☐ CIEMAT  
☐ USE ☐ ULH ☐ YLR ☒ UNIGIB

in alphabetical order

| Surname   | Name   | Organisation/School               | E-mail  | Contact Number | Signature   |
|-----------|--------|-----------------------------------|---|----------------|---|
| Aguilera  | Jerry  | St. Paul's First School + Nursery | sprts.deputy@schools.edu.gi   | 54005699       |   |
| Balteston | Sean   | Westside School                   | s_balteston@outlook.com;<br>s.balteston@westside.school.gibraltar.com | 54003245       |  |
| Beltran   | Mark   | St. Joseph's First School         | mbeltran@hotmail.co.uk  | 56000114       |  |
| Benzerary | Elaine | St. Bernard's First School        | elaine.benzerary@education.gov.gi                                     | 54015452       |   |

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ClimACT - Acting for the transition to a low carbon economy in schools – development of support tools (SQE1/73/PD429)

| Surname | Name      | Organisation/School        | E-mail                                | Contact Number | Signature   |
|---------|-----------|----------------------------|---------------------------------------|----------------|---|
| Borrell | Claire    | Westside School            | c.borrell@westsideschoolgibraltar.com | 54003057       |   |
| Bosano  | Gianna    | Gibraltar College          | gianna.bosano@schools.edu.gi          | 54038370       |    |
| Burgod  | Charmaine | St. Joseph's First School  | SJFS.deputyhead@schools.edu.gi        | 54034380       |   |
| Capurro | Ian       | St. Mary's First School    | ian.capurro@education.gov.gi          | 54021602       |    |
| Caruana | Charlene  | St. Mary's First School    | smfs.deputyhead@schools.edu.gi        | 54012400       |    |
| Clinton | Ewen      | St. Joseph's Middle School | sjms.deputy@schools.edu.gi            | 20075615       |    |
| Clinton | Jeremy    | St. Joseph's First School  | SJFS.deputyhead@schools.edu.gi        | 58469000       |   |
| Coelho  | Anne      | Westside School            | a.coelho@westsideschoolgibraltar.com  | 54022181       |  |
| Enriles | Lorraine  | St. Paul's First School    | lorraine.enriles@education.gov.gi     | 54014056       |  |

ClimACT - Acting for the transition to a low carbon economy in schools – development of support tools (SCER1/PS/19/426)

| Surname   | Name       | Organisation/School   | E-mail   | Contact Number | Signature   |
|-----------|------------|---|--|----------------|---|
| Federico  | Cathy      | St. Anne's Middle School  | cathy.federico@education.gov.gi                        | 54012102       |   |
| Fernandez | Christiane | Notre Dame First School   | christiannefernandez281@gmail.com                      | 54002434       |   |
| Fernandez | Amalia     | University of Gibraltar   | amalia.fernandez@unigib.edu.gi                         | 54025116       |    |
| Foster    | Sarah      | Dept of Edu B.E.S.T<br>(Behavioural and Educational Support Team) | s.foster@westsideschoolgibraltar.com                   | 54032923       |    |
| Gamer     | Gaby       | Loreto Convent (Middle School)                                    | ggamer@loredo.gi                                       | 57567000       |   |
| Gilder    | Christine  | Alameda Gardens   | cgilder@gibraltargardens.gi                            | 54035323       | FD- ✓   |
| Goff      | Monica     | Bishop Fitzgerald Middle School                                   | monica.goff@education.gov.gi<br>monica.goff@schools.gi | 54010666       |  |
| Howard    | Natalia    | Bishop Fitzgerald Middle School                                   | natalia.howard@education.gov.gi                        | 54024658       |   |
| Howitt    | Janet      | Environmental Safety Group (ESG)                                  | jhowitt@gibtelecom.net                                 | 54960000       |  |

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ClimACT – Acting for the transition to a low carbon economy in schools – development of support tools (5061/P3/P0429)

| Surname     | Name    | Organisation/School             | E-mail  | Contact Number | Signature   |
|-------------|---------|---------------------------------|---|----------------|---|
| Linares     | Jackie  | Dept of Education               | jackie.linares@gibraltar.gov.gi                       | 56000321       |    |
| Lomas       | Robert  | Hebrew Primary School           | hps.head@schools.edu.gi                               | 20065906       |    |
| Marsden     | Denise  | Bayside School                  | dmarsden@baysideschoolgib.org.gi                      | 54863000       |    |
| Mellie      | Jemila  | Bishop Fitzgerald Middle School | jemila.mellie@education.gov.gi                        | 54015930       |    |
| Moreno      | Dale    | Bishop Fitzgerald Middle School | dale.moreno@education.gov.gi                          | 56001504       |    |
| Pardo-Gomez | Lizanne | St. Anne's Middle School        | lronnepardo@yahoo.com                                 | 20077163       |    |
| Parody      | George  | University of Gibraltar         | geopar@gibtelecom.net;<br>george.parody@unigib.edu.gi | 54007728       |   |
| Parra       | Lianne  | Bishop Fitzgerald Middle School | lmparra@gmail.com                                     | 54017033       |  |
| Pillero     | Licenne | Governor's Meadow First School  | lablugg@yahoo.com                                     | 54021402       |  |

ClimACT - Acting for the transition to a low carbon economy in schools – development of support tools (SDE1/P3/P0329)

| Surname     | Name     | Organisation/School              | E-mail                           | Contact Number | Signature   |
|-------------|----------|----------------------------------|----------------------------------|----------------|---|
| Prescott    | Elaine   | DEHCC                            | elaine.prescott@gibraltar.gov.gi | 54004530       |    |
| Russo       | Ian      | Bishop Fitzgerald Middle School  | bfms.geo@gmail.com               | 20077162       |    |
| Saxby       | Paula    | St. Bernard's Middle School      | paula.saxby@education.gov.gi     | 54008577       |    |
| Tray        | Conchita | Environmental Safety Group (ESG) | familytc@yahoo.co.uk             | 54028074       |    |
| Wahnon      | Kevin    | St. Bernard's First School       | kevin.wahnon@education.gov.gi    | 54022741       |    |
| Abacus      | Leon     | Everett's College                | leon.abacus@schools.edu.gi       | 54005511       |   |
| Ramsey      | Arthur   | Gib. College                     | arthur.ramsey@schools.edu.gi     | 54008100       |  |
| Sanguinetti | Annmarie | St. Joseph's First School        | annmarie_sanguinetti@hotmail.com | 54004102       |  |
| Burgess     | Elaine   | SAMS                             | elaine.burgess@education.gov.gi  | 54008077       |  |



ClimACT - Acting for the transition to a low carbon economy in schools – development of support tools (SOT1/P3/P9429)

| Surname       | Name     | Organisation/School | E-mail                          | Contact Number | Signature    |
|---------------|----------|---------------------|---------------------------------|----------------|--------------|
| Garcia        | Nadyle   | St. Anne's ☺        | nadyle.garcia@education.gov.gi  | 54007145       | N. Garcia.   |
| Reyes         | Katrin   | St. Paul's          | katrinreyes@education.gov.gi    | 54011871       | Katrin       |
| Ernie         | Lorraine | St. Paul's          | lorraine.ernie@education.gov.gi |                | L. Ernie     |
| Lotin         | Elaine   | Notre Dame          | Elaine.Lotin@schools.edu.gi     | 58003440       | Elaine Lotin |
| Prior-Hawkins | Jacqui   | BFMS                | jacqui.prior@education.gov.gi   | 54019583       | J. Prior     |
|               |          |                     |                                 |                |              |
|               |          |                     |                                 |                |              |
|               |          |                     |                                 |                |              |
|               |          |                     |                                 |                |              |

## 9. Photos of the meeting



Amaia Fernandez addressing Agenda Point 1



Attendees discussing during the presentations





Jackie giving an overview of the progress of schools

## ClimACT – SOE1/P3/P0429

### CLIMACT / SCHOOL REPRESENTATIVES

**Date:**

Tues, 2<sup>nd</sup> April 2019

**Time:**

4pm

**Venue:**

University of Gibraltar, Seminar Room 5

**Attendees (in alphabetical order);**

| No | Surname       | Name      | Organisation/School  |
|----|---------------|-----------|--|
| 1  | Aguilera      | Jerry     | St. Paul's First School + Nursery                              |
| 2  | Ballester     | Sean      | Westside School  |
| 3  | Beltran       | Mark      | St. Joseph's First School                                      |
| 4  | Berllaque     | Jenique   | Westside School  |
| 5  | Burgod        | Charmaine | St. Joseph's First School                                      |
| 6  | Capurro       | Ian       | St. Mary's First School  |
| 7  | Caruana       | Charlene  | St. Mary's First School  |
| 8  | Clinton       | Jeremy    | St. Joseph's First School                                      |
| 9  | Coelho        | Anne      | Westside School  |
| 10 | Enriles       | Lorraine  | St. Paul's First School  |
| 11 | Federico      | Cathy     | St. Anne's Middle School                                       |
| 12 | Fernandez     | Chrisanne | Notre Dame First School  |
| 13 | Fernandez     | Amaia     | University of Gibraltar  |
| 14 | Foster        | Sarah     | Dept of Edu B.E.S.T (Behavioural and Educational Support Team) |
| 15 | Golt          | Monica    | Bishop Fitzgerald Middle School                                |
| 16 | Howard        | Natalia   | Bishop Fitzgerald Middle School                                |
| 17 | Lester        | Gaynor    | Bayside School   |
| 18 | Linares       | Jackie    | Dept of Education  |
| 19 | Lomax         | Robert    | Hebrew Primary School  |
| 20 | Marsden       | Caitlin   | Bayside School   |
| 21 | Mellin        | Jemila    | Bishop Fitzgerald Middle School                                |
| 22 | Parody        | George    | University of Gibraltar  |
| 23 | Parral        | Lianne    | Bishop Fitzgerald Middle School                                |
| 24 | Piñero        | Lisanne   | Governor's Meadow First School                                 |
| 25 | Pitchford     | Mandy     | Loreto Convent (First School)                                  |
| 26 | Prescott      | Elaine    | DEHCC  |
| 27 | Prior-Hawkins | Jacqui    | Bishop Fitzgerald Middle School                                |
| 28 | Reyes         | Katrin    | St. Paul's First School  |
| 29 | Russo         | Ian       | Bishop Fitzgerald Middle School                                |
| 30 | Sanguinetti   | Arianne   | St. Joseph's First School                                      |
| 31 | Saxby         | Paula     | St. Bernard's Middle School                                    |
| 32 | Wahnon        | Kevin     | St. Bernard's First School                                     |
| 33 | Wallace       | Marie     | Loreto Convent   |

**Also in attendance:**

1. Min Cortes
2. Chris Gomila (Dept. Edu)
3. Christine Gilder (Alameda Gardens)
4. Janet Howitt (ESG)
5. Jessica Leaper (Alameda Wildlife Conservation Park)

**Agenda points:**

- 1) Welcome
- 2) Recap video
- 3) Presentations from schools:
  - a. Hebrew Primary School (HPS)
  - b. Bishop Fitzgerald Middle School (BFMS)
  - c. Westside School (WS)
  - d. St. Joseph's First School (SJFS)
  - e. St. Paul's First School (SPFS)
- 4) Discussion

**Outline of the session, and summary of discussions:****1. Welcome**

- Amaia Fernandez (AF) opened the session by welcoming the attendees and she gave special thanks to Minister Cortes and Chris Gomila (Dept. Education) for attending the meeting.
- Jackie Linares (JL) also welcomed the attendees.
- Both AF and JL presented the agenda for the meeting.

**2. Recap video**

- AF showed a summary video, which included the work done on ClimACT and by the Working Party over the past months.

**3. Presentations from schools**

- **Hebrew Primary School (HPS).** Robert Lomax (RL) presented their school initiatives, which included an Environmental Audit on Electricity and Water consumption and the recycling activity at school. By recording and monitoring data, the school has been able to detect areas for improvement and apply corrective measures to achieve a more sustainable running of the school. Students have set up an Eco-Council at school by which they propose sustainable initiatives to teachers, who facilitate the implementation of those proposals. Students

produced a 'Recycling Rap' motto for the school, which has become very popular. Project-Based Learning (PBL)

- **Bishop Fitzgerald Middle Schools (BFMS).** Ian Russo (IR) delivered the presentation on behalf of the school. They have reduced plastic usage considerably within the school (e.g. by implementing bamboo cutlery) and students now use custom-made reusable water bottles with the school logo. They have a gardening project, which is looked after by the students and where employed materials comprise e.g. upcycled empty plastic bottles. The schools has also worked very hard in education and recycling and they have promoted Eco-Warriors including a 'professional job-description' for the role, an activity that the students have taken on board very seriously. The school has redesigned their interim reports, which has led to a significant reduction on the amount of paper used. Their school handcrafts are made of recycled and upcycled materials, usually delivered through DT curriculum. The schools keeps now monthly records of their amount of paper/cardboard and plastics disposed of for recycling.
- **Westside School (WS).** Sean Ballester (SB), Anne Coelho (AC) and Jenique Berllaque (JB) delivered the presentation on behalf of Westside School. They explained their action plan for the 2018/2019 academic year, which is divided into two phases. Phase 1 has been completed and it included the set-up of a student & teacher Eco-Committee, a refuse initiative (remove single-use plastic bottles), a reduce/reuse initiative (installation of water fountains and promotion of reusable bottles) and a recycle initiative (introduction of recycling bins in playgrounds). WS is now embarked in Phase 2 which encompasses curriculum links (embedding sustainable learning within the curriculum), education (hosting assemblies across all year groups), reinforcing (introducing recycling bins in all staff workrooms) and reviewing (Eco website review and plan for the new school). The school was proud that student stood up for the 'Climate Strike Fridays'.
- **St. Joseph's First School (SJFS).** Charmaine Burgod (CB) and Mark Beltran (MB) gave the presentation and explained the main schools initiatives that have had a significant impact on the ethos of the school. Bringing children on board has been the key for success since kids at young age strongly commit to the initiatives and even take them beyond school, influencing their families and friends to act more sustainably. School initiatives involve students, teachers, lunch supervisors, caretakers and cleaners. The schools has encouraged recycling, reuse of materials, displays, outings and school plays, all of them linked to PBL projects as a way embedding the learning in cross-curriculum lessons. The two initiatives that were most welcomed by the attendees were the 'Sustainable Garden' in the playground, including a compost maker, entirely made of reclaimed/upcycled materials, and the 'reusable-recyclable wet wipes' system, which the attendees experienced first-hand as MB brought a sample of it. The schools has also implemented Eco-Monitors. CB explained that the progress is part of the performance management of teachers and said their intention is to progress on this and make it a school policy (led by the year coordinator). Attendees suggested that this could become a Department policy and agreed to work on the initiative in subsequent Working Party meetings.
- **St. Paul's First School (SPFS).** Jerry Aguilera (JA), Lorraine Enriles (LE) and Katrin Reyes (KR) presented the achievements of the school. SPFS also have implemented an 'Eco-Friendly' team, with the aim of developing the school to be as sustainable as possible; raising awareness

across the whole school community. The schools has also put a strong focus on recycling and reusing materials for classroom activities and school displays. Teachers are now more aware of using less paper in class and there are light monitors in every class. The school has adapted their lesson plans to use more recycled materials. Most school correspondence is now sent electronically to parents. JA mentioned that their IT teacher would be happy to share their experience with the other schools. Personalised St. Paul's water bottles have been very popular too. The school also has a gardening club, in which kids from each year group take part on a weekly basis. They are also promoting bee keeping since bees are essential for humans. Moving forward, the school is aiming to do more trips linked to sustainability, take action on nearby community by cleaning up the Varyl Begg vicinity, promote a walk to school day and Eco-Buddies. SPFS is also aiming to work on a whole school sustainability policy next year.

#### **4. Discussion**

- The Minister praised the work done by the schools and encouraged them to keep on working on this direction.
- No other particular items were discussed.

#### **5. AOB**

- JL presented the Gibraltar Mini-Hackathon scheduled for 22<sup>nd</sup> May at 2.30pm at the University. The event is organised by The Leadership Foundation and the Dept. of Education and it is hosted and facilitated by the University. JL asked for teachers and students to volunteer for the event.

#### **6. Action points**

- Working Party to work on a 'Sustainability policy' in subsequent meetings, ideally to be adopted by all schools.
- JL shall make the call for the next Working Party meeting.



## 7. List of attendees

ClimACT - Acting for the transition to a low carbon economy in schools - development of support tools (SDE1/P3/P0426)

Interreg Sudoe ClimACT

**Attendance List**

Title of the meeting: ClimACT Working Party - Sustainable Schools

Date: 07/04/2019 WP a.R. 1-3 Activity a.P. 1.2 - 1.3

Start time: 16:00 End time: 18:00

Meeting Venue (city and country): University of Gibraltar (Seminar Room 5)

Beneficiary Leader: ☐ BT ☐ BD ☐ EDGREEN ☐ AME ☐ DEMAT  
☒ USE ☐ ILL ☐ VLR ☒ DRIGH

In alphabetical order by surname

| Surname   | Name   | Organisation/School               | E-mail                                  | Contact Number | Signature   |
|-----------|--------|-----------------------------------|---|----------------|---|
| Abecasis  | Leon   | Gibraltar College                 | leon.abecasis@schools.mv.gi             | 54005511       |   |
| Agallera  | Jerry  | St. Paul's First School - Nursery | spfs.deputy@schools.edu.gi              | 54005669       |  |
| Baccresse | Elaine | St. Anne's Middle School          | elaine.baccresse@education.gov.gi       | 54028037       |   |
| Ballester | Sean   | Westside School                   | s.ballester@westsideschoolgibraltar.com | 54003245       |  |

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ClimACT - Acting for the transition to a low carbon economy in schools – development of support tools (SOE1/P3/P0429)

| Surname  | Name      | Organisation/School        | E-mail                               | Contact Number | Signature  |
|----------|-----------|----------------------------|--------------------------------------|----------------|--|
| Beltran  | Mark      | St. Joseph's First School  | mbeltran@hotmail.co.uk               | 56000114       |       |
| Benzecry | Elaine    | St. Bernard's First School | elaine.benzecry@education.gov.gi     | 54015452       |  |
| Bosano   | Gianna    | Gibraltar College          | gianna.bosano@schools.edu.gi         | 54038370       |  |
| Burgod   | Charmaine | St. Joseph's First School  | SJFS.deputyhead@schools.edu.gi       | 54024389       | P.O.  |
| Capurro  | Ian       | St. Mary's First School    | ian.capurro@education.gov.gi         | 54021602       |       |
| Caruana  | Charlene  | St. Mary's First School    | smfs.deputyhead@schools.edu.gi       | 54012400       |       |
| Clinton  | Jeremy    | St. Joseph's First School  | SJFS.deputyhead@schools.edu.gi       | 58469000       |  |
| Clinton  | Ewen      | St. Joseph's Middle School | sjms.deputy@schools.edu.gi           | 20075615       |  |
| Coelho   | Anne      | Westside School            | a.coelho@westsideschoolgibraltar.com | 54022181       |     |

ClimACT - Acting for the transition to a low carbon economy in schools – development of support tools (SDE1/P3/P0425)

| Surname   | Name      | Organisation/School  | E-mail                                   | Contact Number | Signature |
|-----------|-----------|--|--|----------------|-----------|
| Cortes    | John      | HMGOS Min. Education and the Environment                       |  |                | ✓         |
| Enriles   | Lorraine  | St. Paul's First School  | lorraine.enriles@education.gov.gi        | 54014056       |           |
| Federico  | Cathy     | St. Anne's Middle School                                       | cathy.federico@education.gov.gi          | 54012103       |           |
| Fernandez | Amalia    | University of Gibraltar  | amalia.fernandez@unigib.edu.gi           | 54025116       |           |
| Foster    | Sarah     | Dept of Edu B.E.S.T (Behavioural and Educational Support Team) | s.foster@westsidetechschoolgibraltar.com | 64032923       |           |
| Garcia    | Nadyle    | St. Anne's Middle School                                       | nedyle.garcia@education.gov.gi           | 54007145       |           |
| Garrett   | Gaby      | Lombis Convent (Middle School)                                 | ggarrett@loredo.gi                       | 57967000       |           |
| Gilder    | Christine | Alameda Gardens  | cgilder@gibraltargardens.gi              | 54035323       |           |
| Golt      | Monica    | Bishop Frigerio Middle School                                  | monica.golt@education.gov.gi             | 54010565       |           |

ClimACT - Acting for the transition to a low carbon economy in schools – development of support tools (SOE1/P3/P0429)

| Surname | Name    | Organisation/School                | E-mail                             | Contact Number | Signature   |
|---------|---------|------------------------------------|------------------------------------|----------------|---|
| Gomila  | Chris   | Dept. Education                    |                                    |                | ✓   |
| Howard  | Natalia | Bishop Fitzgerald Middle School    | natalia.howard@education.gov.gi    | 54024658       |    |
| Howitt  | Janet   | Environmental Safety Group (ESG)   | howitts@gibtelecom.net             | 54960000       |    |
| Latin   | Elaine  | Notre Dame First School            | elaine.latin@schools.edu.gi        | 58008440       |   |
| Leaper  | Jessica | Alameda Wildlife Conservation Park | info@awcp.gi                       | 54017449       |    |
| Linares | Jackie  | Dept. of Education                 | jackie.linares@gibraltar.gov.gi    | 56000321       |    |
| Lomax   | Robert  | Hebrew Primary School              | hps.head@schools.edu.gi            | 20065906       |   |
| Marsden | Denise  | Bayside School                     | dmarsden@baysideschoolgibraltar.gi | 54863000       |   |
| Mellin  | Jemila  | Bishop Fitzgerald Middle School    | jemila.mellin@education.gov.gi     | 54015930       |  |

ClimACT - Acting for the transition to a low carbon economy in schools – development of support tools (SOE1/P3/P0429)

| Surname                     | Name                  | Organisation/School             | E-mail  | Contact Number | Signature  |
|-----------------------------|-----------------------|---------------------------------|---|----------------|--|
| Moreno                      | Dale                  | Bishop Fitzgerald Middle School | dale.moreno@education.gov.gi                          | 56001504       |  |
| Morgan                      | Nyween                | St. Paul's First School         | nyween.morgan@schools.edu.gi                          | 54011323       |  |
| Neish                       | Crissy                | Loreto Convent                  | cneish@loreto.gi                                      | 54023458       |  |
| Pardo-Gomez                 | Lizanne               | St. Anne's Middle School        | lizanepardo@yahoo.com                                 | 20077161       |  |
| Parody                      | George                | University of Gibraltar         | geopar@gibtelecom.net;<br>george.parody@unigib.edu.gi | 54007728       |                        |
| Parral                      | Lianne                | Bishop Fitzgerald Middle School | Imparral@gmail.com                                    | 54017033       |                        |
| Piñero                      | Lisanne               | Governor's Meadow First School  | leblagg@yahoo.com                                     | 54022402       |                       |
| Pitchford<br><i>wallace</i> | Mandy<br><i>Marie</i> | Loreto Convent (First School)   | mpitchford@loreto.gi<br><i>mwallace@loreto.gi</i>     |                |  + <i>all wallace</i> |
| Prescott                    | Elaine                | DEHCC                           | elaine.prescott@gibraltar.gov.gi                      | 54004530       |                       |



ClimACT - Acting for the transition to a low carbon economy in schools - development of support tools (SDEI/P3/P0629)

| Surname       | Name     | Organisation/School              | E-mail                          | Contact Number | Signature |
|---------------|----------|----------------------------------|---------------------------------|----------------|-----------|
| Prior-Hawkins | Jacqui   | Bishop Fitzgerald Middle School  | jacqui.prior@education.gov.gi   | 54019588       |           |
| Ramagge       | Arthur   | Gibraltar College                | arthur.ramagge@schools.edu.gi   | 54008120       |           |
| Reyes         | Katrin   | St. Paul's First School          | katrin.reyes@education.gov.gi   | 54011871       |           |
| Russo         | Ian      | Bishop Fitzgerald Middle School  | ian.russo@gmail.com             | 20077162       |           |
| Sanguinetti   | Arianne  | St. Joseph's First School        | arianne_sanguinetti@hotmail.com | 54004102       |           |
| Saxby         | Paula    | St. Bernard's Middle School      | paula.saxby@education.gov.gi    | 54008377       |           |
| Scott         | Karl     | Dept. Education                  |                                 |                |           |
| Torres        | Liesl    | DECC - CEO                       |                                 |                |           |
| Triay         | Conchita | Environmental Safety Group (ESG) | familytc@vodafone.co.uk         | 54028074       |           |



ClimACT - Acting for the transition to a low carbon economy in schools – development of support tools (SOE1/P3/P0429)

| Surname     | Name      | Organisation/School           | E-mail                                   | Contact Number | Signature   |
|-------------|-----------|-------------------------------|--|----------------|---|
| Wahnon      | Kevin     | St. Bernard's First School    | kevin.wahnon@education.gov.gi            | 54022741       |    |
| Wallace     | Marie     | Loreto Convent                |  |                |   |
| Lester      | Gayne     | Boyside                       |  |                |    |
| Morson      | Carlin    | Boyside                       |  |                |    |
| Fernandez   | Chrisanne | Notre Dame                    | chrisanne.fernandez251@gmail.com         | 54006434       | af  |
| CLINTON     | SEREMY    | Hebrew Primary School<br>SIFS | jeremy.clinton@education.gov.gi          |                |    |
| Sanguinetti | Ariane    | St Joseph's First             | arianne.sanguinetti@hotmail.com          |                |   |
| Belluque    | Jenique   | Westside                      | j.belluque@westside-school-gibraltar.com |                |  |
|             |           |                               |  |                |   |

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## 8. Photos of the meeting



AF and JL opening the session and welcoming the attendees



IR presenting the initiatives of BFMS



Attendees listening to school presentations

## ClimACT – SOE1/P3/P0429

### CLIMACT / SCHOOL REPRESENTATIVES

**Date:**

Tues, 18 June 2019

**Time:**

1pm

**Venue:**

University of Gibraltar, Seminar Room 9

**Attendees (in alphabetical order);**

| No | Surname       | Name      | Organisation/School  |
|----|---------------|-----------|--|
| 1  | Aguilera      | Jerry     | St. Paul's First School + Nursery                              |
| 2  | Ballester     | Sean      | Westside School  |
| 3  | Beltran       | Mark      | St. Joseph's First School                                      |
| 4  | Bosano        | Melissa   | Westside School  |
| 5  | Burgod        | Charmaine | St. Joseph's First School                                      |
| 6  | Capurro       | Ian       | St. Mary's First School  |
| 7  | Caruana       | Charlene  | St. Mary's First School  |
| 8  | Clinton       | Ewen      | St. Joseph's Middle School                                     |
| 9  | Clinton       | Jeremy    | St. Joseph's First School                                      |
| 10 | Coelho        | Anne      | Westside School  |
| 11 | Enriles       | Lorraine  | St. Paul's First School  |
| 12 | Federico      | Cathy     | St. Anne's Middle School                                       |
| 13 | Fernandez     | Amaia     | University of Gibraltar  |
| 14 | Foster        | Sarah     | Dept of Edu B.E.S.T (Behavioural and Educational Support Team) |
| 15 | Garcia        | Louise    | Bayside School   |
| 16 | Holmes        | Desiree   | St. Bernard's Middle School                                    |
| 17 | Linares       | Jackie    | Dept of Education  |
| 18 | Marsden       | Denise    | Bayside School   |
| 19 | Montegriffo   | Amy       | Bishop Fitzgerald Middle School                                |
| 20 | Montegriffo   | Gizelle   | St. Joseph's First School                                      |
| 21 | Pardo-Gomez   | Lizanne   | St. Anne's Middle School                                       |
| 22 | Parody        | George    | University of Gibraltar  |
| 23 | Parral        | Lianne    | Bishop Fitzgerald Middle School                                |
| 24 | Prescott      | Elaine    | DEHCC  |
| 25 | Prior-Hawkins | Jacqui    | Bishop Fitzgerald Middle School                                |
| 26 | Ramagge       | Arthur    | Gibraltar College  |
| 27 | Reyes         | Katrin    | St. Paul's First School  |
| 28 | Russo         | Ian       | Bishop Fitzgerald Middle School                                |
| 29 | Saxby         | Paula     | St. Bernard's Middle School                                    |
| 30 | Trinidad      | Tiana     | St. Joseph's First School                                      |
| 31 | Wahnon        | Kevin     | St. Bernard's First School                                     |

**Also in attendance:**

1. Lewis Stagnetto (The Nautilus Project)

**Agenda points:**

- 1) Summary of the Lisbon conference
- 2) Celebration of progress
- 3) Schools' input on their stages
- 4) Plans for 2019/20
- 5) Helsinki training
- 6) Low Carbon game

**Outline of the session, and summary of discussions:**

Prior to the meeting, a quick lunch was offered to the attendees to celebrate the end of the project. The group also celebrated the award won by ClimACT on the EU Sustainable Energy Week 2019 in the Youth category.

**1. Summary of the Lisbon conference**

- Amaia Fernandez (AF) briefed the attendees on the two-day conference held in Lisbon in May 2019. The conference celebrated the closure of the project and received over 80 attendees including institutions and schools from Gibraltar, France, Portugal and Spain.
- The Gibraltar delegation included two Young Enterprise (YE) groups who presented their projects 'The Ambient Project' and 'Compass Direct'. Students also took part on a performance, which included dance, music and acting disciplines, through which they expressed the impacts of climate change and actions to reduce the carbon footprint at schools.
- AF updated the conference attendees on the progress made in Gibraltar, where teachers have shaped the aim, the structure and operation of Sustainable Schools Gibraltar.
- Teachers attending the ClimACT conference expressed their wishes to continue with the relationship beyond the project's lifespan.

**2. Celebration of progress**

- Jackie Linares (JL) presented a video, which included recent activities developed by schools e.g. World Environment Day (WED) celebrations, solar oven competition, World Ocean Day, the Hackathon, and many more.



- AF handed over certificates to schools in recognition of their achievements, dedication and commitment towards embedding sustainable principles in schools ethos and curricula. The certificate acknowledged the achievement of the Foundation Stage by all schools.

### **3. Schools input on their stages**

- The proposed google docs to monitor and follow-up schools' progress has not worked out as initially planned. However, schools are committed and want to show progress and advance on the stages.
- Therefore, JL shall circulate by email to schools the list of activities, so that schools can simply 'tick' or add the activities they have accomplished over the past months.
- The core group would then assess schools' progress and start the 2019/20 academic year based on that.

### **4. Plans for 2019/20**

- The working party agreed to continue with this forum and meet regularly to exchange ideas and have a support network.
- JL mentioned that the involvement of the Commissioner for Sustainable Development (Daniella Tilbury) is not clear yet.
- Teachers discussed some ideas which could be implemented during the next academic year. E.g.: monthly monitoring of water and electricity consumption by each school, e-registers, e-marking books, pollution monitors, campaigns to prevent car idling, a 'Walking bus' / 'traffic free Tuesdays' (which Loreto currently does), another Hackathon edition, involve parents in the activities proposed by schools' eco-groups.
- These ideas would be further explored in subsequent meetings to mark the start of the 2019/20 year.

### **5. Helsinki training**

- Two teachers from the working party have been selected to attend a high-level training on education for sustainable development in Helsinki in July.
- The teachers are Gianna Bosano (GB) from the Gibraltar College and Jackie Linares (JL), Education Adviser (previously at St. Anne's Middle School).
- Both GB and JL shall report to the group on the next session.

### **6. Low carbon game**

- Schools received the 'Low Carbon' board game produced for ClimACT in which students learn by playing the role of a given country aiming to reduce their carbon emissions.
- Schools were very thankful for the gift provided by ClimACT.

- AF also mentioned that a mat version of the game is also available for any school that wished to have a fun game on e.g. a school open day or any other relevant occasion. The mat will be kept at the University but schools or any other interested party are free to use it upon request (via AF).
- The mat game was displayed on WED 2019 at the Commonwealth Park and it was a hit.

## **7. AOB**

- Teachers agreed that the working party meetings have given them the confidence to take their work on sustainability and education to the next level. The group has given the teachers the ownership of the process has empowered them to involve younger students. Schools have found a reliable network of like-minded colleagues.

## 8. List of attendees

ClimACT – Acting for the transition to a low carbon economy in schools – development of support tools (SDE1/P3/P0429)

**Interreg Sudoe**  **ClimACT**

**Attendance List**

Title of the meeting: ClimACT Working Party - sustainable Schools

Date: 18/06/2019 WP n.º 4,3 Activity n.º: 4.2 - 4.3

Start time: 13:00 End time: 15:00

Meeting Venue (city and country): University of Gibraltar

Beneficiary Leader: ☐ IST ☐ ISQ ☐ EDIGREEN ☐ ABAF ☐ OEMAT  
☐ USE ☐ ULR ☐ VLR ☒ UNGIB

In alphabetical order, by surname:

| Surname  | Name    | Organisation/School               | E-mail                           | Contact Number | Signature   |
|----------|---------|-----------------------------------|----------------------------------|----------------|---|
| Abecasis | Leon    | Gibraltar College                 | leon.abecasis@schools.edu.gi     | 54005511       |   |
| Aguilera | Jerry   | St. Paul's First School - Nursery | spts.deputy@schools.edu.gi       | 54005669       |  |
| Andrews  | Lizanne | St. Anne's Middle School          | sams.deputy@schools.edu.gi       | 54011758       |   |
| Baccrese | Elaine  | St. Anne's Middle School          | elaine.baccrese@education.gov.gi | 54028037       |   |

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ClimACT – Acting for the transition to a low carbon economy in schools – development of support tools (SO11/P3/P0629)

| Surname  | Name      | Organisation/School        | E-mail                                 | Contact Number | Signature   |
|----------|-----------|----------------------------|--|----------------|---|
| Balteser | Sarah     | Westside School            | s.balteser@westsideschoolgibraltar.com | 54003245       |    |
| Beltran  | Mark      | St. Joseph's First School  | mbeltran@hotmail.co.uk                 | 56000114       |    |
| Benedry  | Elaine    | St. Bernard's First School | elaine.benedry@education.gov.gi        | 54015452       |   |
| Berlaque | Jenique   | Westside School            | j.berlaque@westsideschoolgibraltar.com | 54023208       |   |
| Borrell  | Claire    | Westside School            | c.borrell@westsideschoolgibraltar.com  | 54003857       |   |
| Bosano   | Gianna    | Gibraltar College          | gianna.bosano@schools.edu.gi           | 54038370       |   |
| Burgod   | Charmaine | St. Joseph's First School  | stjfs.deputyhead@schools.edu.gi        | 54024389       |   |
| Capurro  | Ian       | St. Mary's First School    | ian.capurro@education.gov.gi           | 54021602       |  |
| Caruana  | Charlene  | St. Mary's First School    | smfs.deputyhead@schools.edu.gi         | 54011400       |  |

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ClimACT - Acting for the transition to a low carbon economy in schools - development of support tools (SOE1/P3/P0429)

| Surname   | Name      | Organisation/School            | E-mail                                  | Contact Number | Signature |
|-----------|-----------|--------------------------------|---|----------------|-----------|
| Catania   | Lijanna   | Westside School                | l.catania@westside.school.gibraltar.com | 54003997       |           |
| Catania   | Pamela    | Governor's Meadow First School | p.catania@hotmail.com                   | 54006343       |           |
| Clinton   | Ewen      | St. Joseph's Middle School     | s.jms.deputy@schools.edu.gi             | 20075615       |           |
| Clinton   | Jeremy    | St. Joseph's First School      | SJFS.deputyhead@schools.edu.gi          | 58469000       |           |
| Coelho    | Anne      | Westside School                | a.coelho@westside.school.gibraltar.com  | 54022181       |           |
| Cruz      | Priscilla | Notre Dame First School        | pruzp@igibtelecom.net                   | 20075182       |           |
| Enríles   | Lorraine  | St. Paul's First School        | lorraine.enriles@education.gov.gi       | 54034056       |           |
| Federico  | Cathy     | St. Anne's Middle School       | cathy.federico@education.gov.gi         | 54022102       |           |
| Fernandez | Amalia    | University of Gibraltar        | amalia.fernandez@unigib.edu.gi          | 54025116       |           |



ClimACT - Acting for the transition to a low carbon economy in schools – development of support tools (LOE1/PS/P0429)

| Surname   | Name           | Organisation/School  | E-mail                               | Contact Number | Signature   |
|-----------|----------------|--|--------------------------------------|----------------|---|
| Fernandez | Chrisanne      | Notre Dame First School  | chrisannefernandez281@gmail.com      | 54002434       |   |
| Ferro     | Fiona Victoria | Governor's Meadow First School                                       | gmfs.headteacher@schools.edu.gi      | 20075772       |   |
| Foster    | Sarah          | Dept. of Edu. B.E.S.T.<br>(Behavioural and Educational Support Team) | s.foster@westsideschoolgibraltar.com | 54032923       |  |
| Garcia    | Nadyle         | St. Anne's Middle School   | nadyle.garcia@education.gov.gi       | 54007145       |   |
| Gerner    | Gaby           | Loreto Convent (Middle School)                                       | ggerner@loreto.gi                    | 57967000       |   |
| Golt      | Monica         | Bishop Fitzgerald Middle School                                      | monica.golt@education.gov.gi         | 54010865       |   |
| Grech     | Robert         | Loreto Convent (First School)  | rgrech@loreto.gi                     |                |   |
| Howard    | Natalia        | Bishop Fitzgerald Middle School                                      | natalia.howard@education.gov.gi      | 54024658       |   |
| Latin     | Elaine         | Notre Dame First School  | elaine.latin@schools.edu.gi          | 58008440       |   |

ClimACT - Acting for the transition to a low carbon economy in schools – development of support tools (SCE1/P3/P0429)

| Surname | Name     | Organisation/School             | E-mail                             | Contact Number | Signature  |
|---------|----------|---------------------------------|------------------------------------|----------------|--|
| Lester  | Gaynor   | Bayside School                  | glester@baysideschoolgibraltar.gi  | 56691000       |  |
| Linares | Jackie   | Dept. of Education              | jackie.linares@gibraltar.gov.gi    | 5600321        |   |
| Lomas   | Robert   | Hebrew Primary School           | hps.head@schools.edu.gi            | 20669906       |  |
| Lopez   | Cathy    | Bishop Fitzgerald Middle School | cathy_lopez2102@hotmail.com        | 56012102       |  |
| Marsden | Caitlin  | Bayside School                  | cmarsden@baysideschoolgibraltar.gi | 54023234       |  |
| Marsden | Denise   | Bayside School                  | dmarsden@baysideschoolgibraltar.gi | 54863000       |  |
| Martyn  | Paul     | Prior Park School               | pmartyn@priorparkschools.com       | 54012367       |  |
| Monroe  | Jonathan | Hebrew Primary School           | hps.deputy@schools.edu.gi          | 54009372       |  |
| Mellin  | Jemila   | Bishop Fitzgerald Middle School | jemila.mellin@education.gov.gi     | 54016930       |  |

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ClimACT – Acting for the transition to a low carbon economy in schools – development of support tools (SDE/P3/P0429)

| Surname        | Name    | Organisation/School             | E-mail  | Contact Number | Signature |
|----------------|---------|---------------------------------|---|----------------|-----------|
| Moreno         | Dale    | Bishop Fitzgerald Middle School | dale.moreno@education.gov.gi                          | 56001504       |           |
| Morgan         | Nyween  | St. Paul's First School         | nyween.morgan@schools.edu.gi                          | 54011325       |           |
| Neish          | Crissy  | Loreto Convent                  | cneish@loreta.gi                                      | 54023458       |           |
| Owen           | Rebecca | Prior Park School               |   |                |           |
| Pardo<br>Gomez | Uzanne  | St. Anne's Middle School        | lizanepardo@yahoo.com                                 | 20077151       |           |
| Parody         | George  | University of Gibraltar         | geopar@gibtelecom.net;<br>george.parody@unigib.edu.gi | 54007728       |           |
| Parral         | Janine  | Bishop Fitzgerald Middle School | Imparal@gmail.com                                     | 54017033       |           |
| Pihara         | Lisanne | Governor's Meadow First School  | lebbagg@yahoo.com                                     | 54022402       |           |
| Pini           | Monica  | St. Paul's First School         | monica.pini@schools.edu.gi                            | 56001718       |           |

ClimACT - Acting for the transition to a low carbon economy in schools – development of support tools (S0612/P3/P0429)

| Surname       | Name    | Organisation/School             | E-mail                           | Contact Number | Signature   |
|---------------|---------|---------------------------------|----------------------------------|----------------|---|
| Patchford     | Mandy   | Loreto Convent (First School)   | mpatchford@loredo.gi             |                |   |
| Prescott      | Elaine  | DEHCE                           | elaine.prescott@gibraltar.gov.gi | 54004530       |    |
| Prior-Hawkins | Jacqui  | Bishop Fitzgerald Middle School | jacqui.prior@education.gov.gi    | 54019588       |    |
| Ramagge       | Arthur  | Gibraltar College               | arthur.ramagge@schools.edu.gi    | 54008120       |    |
| Reyes         | Katrin  | St. Paul's First School         | katrin.reyes@education.gov.gi    | 54011871       |    |
| Reyes         | Richard | Bishop Fitzgerald Middle School | richard.reyes@schools.edu.gi     | 20077162       |   |
| Russo         | Ian     | Bishop Fitzgerald Middle School | bfms.geo@gmail.com               | 20077162       |  |
| Sanguinetti   | Arianna | St. Joseph's First School       | arianna_sanguinetti@hotmail.com  | 54004102       |   |
| Sanguinetti   | Jessica | St. Mary's First School         | smfs.head@schools.edu.gi         | 54006673       |   |

ClimACT - Acting for the transition to a low carbon economy in schools - development of support tools (S0E1/PS/10429)

| Surname     | Name       | Organisation/School         | E-mail                                 | Contact Number | Signature   |
|-------------|------------|-----------------------------|--|----------------|---|
| Saxby       | Paula      | St. Bernard's Middle School | paula.saxby@education.gov.gi           | 54008377       |    |
| Slacaluga   | Jenny      | St. Bernard's First School  | jennyslacaluga@hotmail.com             | 54015589       |   |
| Ullger      | Chris-Anne | Bayside School              | caullger@baysideschoolgibraltar.gi     | 54025778       |   |
| Wahnon      | Kevin      | St. Bernard's First School  | kevin.wahnon@education.gov.gi          | 54022741       |    |
| Wallace     | Marie      | Loreto Convent              |  |                |   |
| Goveia      | Louise     | Bayside                     | lgoveia@baysideschoolgibraltar.gi      | 54025475       |   |
| Holmes      | Jessica    | St. Bernard's Middle        | jessica.holmes@education.gov.gi        | 58495000       |  |
| Basano      | Marissa    | Westside School             | m.basano@westside-school-gibraltar.com | 54018814       |  |
| Pardo Gomes | Luzanne    | St. Anne's School           | luzanne.pardo@education.gov.gi         | 54020977       |  |

Apologies from Luzanne Andrews: smrs.kend@teacher@schools.edu.gi



ClimACT - Acting for the transition to a low carbon economy in schools – development of support tools (S0EL/P3/P0429)

| Surname      | Name    | Organisation/School      | E-mail                              | Contact Number | Signature |
|--------------|---------|--------------------------|-------------------------------------|----------------|-----------|
| Edwards      | Carly   | St. Anne's Middle School | carly.edwards@education.gov.gi      |                |           |
| Montegriff   | Amy     | Bishops                  | amy.montegriff@education.gov.gi     | 5402607        |           |
| Trinidad     | Tiana   | St Joseph's First School | tiana.dorcas@education.gov.gi       | 5401968        |           |
| MONTTEGRIFFO | GIZELLE | "                        | gizelle.montegriff@education.gov.gi | 54012407       |           |
|              |         |                          |                                     |                |           |
|              |         |                          |                                     |                |           |
|              |         |                          |                                     |                |           |
|              |         |                          |                                     |                |           |
|              |         |                          |                                     |                |           |
|              |         |                          |                                     |                |           |



## 9. Photos of the meeting



AF and JL addressing the attendees and discussing inputs for next academic year



AF presenting the ClimACT certificates to schools



Attendees watching the video presented by JL

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## **Annex 3: Portugal**

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## Portugal: Focus group meeting on Integrating Education for Sustainability in School Curricula

Several partners from ClimACT project had participated in Annual Eco-Schools Seminar that was held in Ílhavo, Portugal between 20<sup>th</sup> and 22<sup>th</sup> January 2017. This event gathered more than 400 teachers, municipalities and professionals of environmental education. During the meeting, a ClimACT focus group discussion was organised by ABAE about “Integrating Education for Sustainability in School Curricula” (Focus Group #1) and account with 15 participants.

The list of participants is presented in [Table 2](#) and [Figure 2](#)

**Table 11 - List of participants in Focus Group #1**

| Name                  | Institution                |
|-----------------------|----------------------------|
| Ana Isabel Ribeiro    | Câmara Municipal de Loures |
| Artur Vieira          | Escola Júlio Dinis         |
| Giovanni Giorgetti    | ABAE                       |
| Inês Correia          | Escola Maria Veleda        |
| José Luis Alexandre   | Edigreen                   |
| Karla Gonçalves       | Edigreen                   |
| Margarida Bento Pinto | Município de Matosinhos    |
| Margarida Gomes       | ABAE                       |
| Nuno Canha            | IST                        |
| Paulo Amorim          | Escola Júlio Dinis         |
| Pedro Pena            | Escola Mário Sá Carneiro   |
| Renata Santos         | ESAS                       |
| Rui Xavier            | Escola Júlio Dinis         |
| Tânia Vicente         | ABAE                       |
| Vítor Manteigas       | ESTeSL                     |

## Workshop do Projeto ClimACT Interreg SUDOE

Assunto: Apresentação dos PT2.9. e 2.11.  
Partilha de Ações e Componente Técnica.

20 de janeiro de 2017, 14h30-16h30, Seminário Eco-Escolas  
Ilhavo, Portugal

### Lista de Presenças

| Nome                  | Entidade                   | Contacto                             |
|-----------------------|----------------------------|--------------------------------------|
| MARGARIDA GOMES       | ABAE                       | margarida.gomes@abae.pt              |
| Giovanni Giorgetti    | ABAE                       | giorgetti@abae.pt                    |
| João Luís Alayalme    | EDIGREEN                   | jlalme@EDIGREEN.pt                   |
| Karla Gomes           | EDIGREEN                   | Karla.g@edigreen.pt                  |
| Renata Seabra         | Ex. Fundação Ecológica     | RenataSeabra@gmail.com               |
| Margarida Bento Pinto | CTN                        | margarida.bento.pinto@ctn-matuebo.pt |
| NUNO CANHA            | IST                        | NUNOCANHA@CTN.TECNICO.LISBOA.PT      |
| Tânia Vicente         | ABAE                       | Tania.vicente@abae.pt                |
| Isabel Correia        | Escola Básica Maria Veloso | isabelc@matuebo.pt                   |

|                      |                |                              |
|----------------------|----------------|------------------------------|
| Paulo Amoroso        | EB 23 Maria Sá | prof.amoroso@iol.pt          |
| António Vieira       | EB 23 Maria Sá | engarturvieira@gmail.com     |
| Rui Xavier           | //             | TURBURA@HOTMAIL.COM          |
| Isabel Monteiro      | ESTESL         | isabel.monteiro@estesl.mt.pt |
| PEDRO PENA           | EB 23 Maria Sá | PEDRO PENA @ HOTMAIL . COM   |
| ANA ISABEL ALEXANDRE | ESTESL         | isabel-alexandre@cm-lousa.pt |

Figure 20- Attendance List assigned (Focus Group Meeting #1)



## Agenda of the Focus group meeting

| Schedule      | Topic   | Trainers                        |
|---------------|---|---------------------------------|
| 14:30 – 14:45 | Presentation of the Participants  |                                 |
| 14:45 – 15:30 | ClimACT Education   |                                 |
| 14:45 – 15:00 | PT2.9. Presentation of the training plan for the E-learning Module about sustainable development – course for Low Carbon Teachers | ABAE<br>Margarida Gomes         |
| 15:00 – 15:30 | PT2.11. Presentation and discussion about Gamification Module.  |                                 |
| 15:30 – 16:00 | Share the Actions – Eco-Schools / ClimACT   |                                 |
| 16:00 – 16:30 | Technical Component – ClimACT   |                                 |
| 16:00 – 16:15 | Indoor Air Quality – To prevent air pollution in the school community   | IST<br>Nuno Canha               |
| 16:15 – 16:30 | Monitoring and Energy Efficiency in Low Carbon Schools  | Edigreen<br>José Luis Alexandre |

**Duration of the session: 120 minutes approximately.**

## Minute of the Focus group meeting

The session was scheduled for 2:30 pm and, due to the delay in the arrival of the participants, began at 3:00 pm with the presence of 15 people from various entities, as presented on the attendance sheet. After the individual presentation of each participant, Margarida Gomes, coordinator at ABAE, requested that each person present the work so far carried out by each school. Several examples were given, such as the questionnaires filled out by ESTeSL. This higher school chose to organize the questionnaire on its own platform and obtained 530 answers.

The Basic School Júlio Dinis indicated that some of the terms used in the questionnaire are not very understandable by students, such as bike path, metro, petition, among others. ABAE presented the graphs of the results and some of the behaviors to be taken into account in the analysis by each school, such as the rate of students going by car to school or not separating waste in school (Presentation in attachment 6.2). There are several good practices identified as always carrying reusable bags for purchases or even always turning off lights when they are not needed.

Margarida Gomes presented the training plan of the e-learning course that will take place next school year and Professor Artur of the Júlio Dinis School proposed to include also in this plan the integration of the environmental themes in the curricular program.

Professor Renata Santos presented a game that will develop on the Day of Geography and the engineer Alexandre, from Edigreen, proposed to include a glossary on the ClimACT themes in the training plan with the explanation of technical concepts.

Margarida Gomes, Giovanni Giorgetti and Tânia Vicente (ABAE) presented the plan for the development of games in the gamification module, such as “COP do Futuro” or solar cars built by schools. The groups already constituted in the schools (Low Carbon Committee) were

presented. ESTeSL presented the plan for the environmental awareness campaigns as the production of short videos (7 seconds) that will attract the attention of the academic community.

The Júlio Dinis school presented an activity on air pollution that developed in partnership with the police and community at the school, as well as actions to promote the use of public transportation. Teacher Renata Santos will plan the activities of the school according to the results of the ClimACT questionnaire.

The Maria Veleda school has already organized 4 brigades / groups of students that will make their colleagues aware of good environmental practices (about waste, energy, food and water). ESTeSL proposed that higher education students go to elementary schools to raise awareness and work together on various environmental issues. The Mário Sá Carneiro school in Loures has a team of students who visit other of the city and carry out environmental audits. Nuno Canha, from IST, trained participants on indoor air quality and presented the importance of correct airing in classrooms as well as various informations on the risks of air pollution to human health.

José Luís Alexandre, from Edigreen, gave training on the work that will be developed on energymanagement in schools and presented the equipment and platform used in the ClimACT project. For example, the platform will demonstrate in real time the energy consumption of each school.

At the end, the organization thanked everyone for their presence and the meeting was adjourned at 5:00 p.m., with no further business to discuss.

### ***AOB during Focus group meeting***

During the session, pictures were taken in all different moments of the event, from the registration of attendees, the session explanation and some others of groups of attendees.

## Pictures of the Session



Figure 21 - Focus Group Meeting about Education for Sustainability



Figure 22 - Focus Group Meeting about Education for Sustainability (II)



Figure 23 - Focus Group Meeting about Education for Sustainability (III)

## Presentation on the Focus Group Meeting

**ClimACT - Atuar na transição para uma economia de baixo carbono nas escolas**

**Workshop ClimACT**  
Seminário Nacional Eco-Escolas 2017

20 janeiro 2017, Ilhavo

**Interreg Sudoe**

O Programa Interreg Sudoe está cofinanciado pela Fundação Europeia de Desenvolvimento Regional (FEDER)

**ClimACT - Atuar na transição para uma economia de baixo carbono nas escolas**

**ClimACT - Atuar na transição para uma economia de baixo carbono nas escolas**

| Horário       | Assunto  | Formadores                   |
|---------------|--|------------------------------|
| 14:30 - 14:45 | Apresentação dos Participantes   |                              |
| 14:45 - 15:30 | Introdução ClimACT   |                              |
| 14:45 - 15:00 | PT2.9. Apresentação do plano de formação para o episódio de e-learning sobre desenvolvimento sustentável - curso para Professores Básico (carbono) | ABAE<br>Margarida Gomes      |
| 15:00 - 15:30 | PT2.11. Apresentação e discussão sobre o método de Gamificação (jogos lúdico-pedagógicos)  |                              |
| 15:30 - 16:00 | Partilha de Ações - Eco-Escolas / ClimACT  |                              |
| 16:00 - 16:20 | Componente Teórica - ClimACT   |                              |
| 16:00 - 16:15 | Qualidade do Ar Interior - perigos e poluição atmosférica na comunidade escolar  | DT<br>Nuno Cabral            |
| 16:15 - 16:30 | Monitorização e Eficiência Energética nas Escolas Básico Carbono   | Edgardo<br>José Luis Almeida |

**ClimACT - Atuar na transição para uma economia de baixo carbono nas escolas**

## Resultados do Questionário ClimACT Comunidade Escolar – até 31 de janeiro 2017

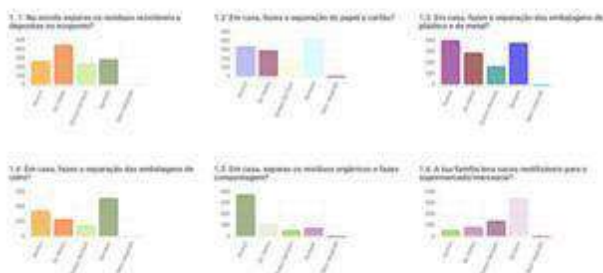
| Escola  | Resposta e Percentagem | Resposta | Percentagem |
|---|------------------------|----------|-------------|
| 1. Escola Básica do 1.º Ciclo do Ensino Básico (Lagoa), 1.º C   | 1                      | 1%       | 10.00%      |
| 2. Escola Básica do 1.º Ciclo do Ensino Básico (Lagoa), 2.º C   | 1                      | 1%       | 10.00%      |
| 3. Escola Básica do 1.º Ciclo do Ensino Básico (Lagoa), 3.º C   | 1                      | 1%       | 10.00%      |
| 4. Escola Básica do 1.º Ciclo do Ensino Básico (Lagoa), 4.º C   | 1                      | 1%       | 10.00%      |
| 5. Escola Básica do 1.º Ciclo do Ensino Básico (Lagoa), 5.º C   | 1                      | 1%       | 10.00%      |
| 6. Escola Básica do 1.º Ciclo do Ensino Básico (Lagoa), 6.º C   | 1                      | 1%       | 10.00%      |
| 7. Escola Básica do 1.º Ciclo do Ensino Básico (Lagoa), 7.º C   | 1                      | 1%       | 10.00%      |
| 8. Escola Básica do 1.º Ciclo do Ensino Básico (Lagoa), 8.º C   | 1                      | 1%       | 10.00%      |
| 9. Escola Básica do 1.º Ciclo do Ensino Básico (Lagoa), 9.º C   | 1                      | 1%       | 10.00%      |
| 10. Escola Básica do 1.º Ciclo do Ensino Básico (Lagoa), 10.º C | 1                      | 1%       | 10.00%      |

## Resultados do Questionário ClimACT Identificação





## 1. Resíduos



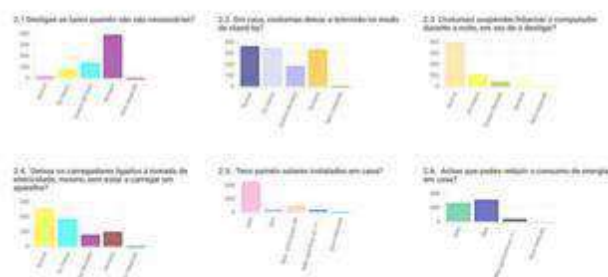
## 3. Qualidade do Ar Interior



## 5. Cidadania



## 2. Energia



## 4. Mobilidade / Transportes



## Proposta de Formação ClimACT

- Sustentabilidade: dados nacionais, europeus e internacionais – metas, Acordo de Paris, Objetivos de Desenvolvimento Sustentável, etc.
- 7 passos – objetivos da metodologia Eco-Escolas / ClimACT
- Guião dos jogos lúdico-pedagógicos / Gamificação
- Componente técnica (auditorias) do ClimACT
- Resultados previstos do ClimACT
- Boas práticas / partilha de atividades de educação ambiental
- Links de referência (Ecoteca)
- Produto da formação = apresentação (.ppt) sobre 2 temas ClimACT

## ClimACT e os Objetivos de Desenvolvimento Sustentável



## Corridas Solares



## ClimACT: cronograma | 2017 (Jan - Abr)

| 2ª Ano Letivo                 | Ações   | Dir | Coord. BC | Coord. Prof. | Estudantes | Staff | Comunidade | Equipa ClimACT |
|-------------------------------|---|-----|-----------|--------------|------------|-------|------------|----------------|
| 20 a 22 Janeiro 2017          | Workshop sobre ferramentas educacionais ClimACT e corridas escolares (no Seminário Nacional EL*);<br>Análise comportamental pelas Brigadas Baixo Carbono; |     |           |              |            |       |            |                |
| 05-06-2017<br>a<br>01/1/2017  | 1ª reunião do Conselho Baixo Carbono - resultados do questionário, proposta das ações comportamentais, Código Climático;                                  |     |           |              |            |       |            |                |
|                               | Apresentação dos resultados dos inquéritos comportamentais à comunidade escolar;  |     |           |              |            |       |            |                |
| 05-05-2017<br>a<br>29-02-2017 | Desenvolvimento de, pelo menos, 4 ações pelas escolas e BRC com o objetivo de sensibilizar a comunidade sobre a economia de baixo carbono;                |     |           |              |            |       |            |                |
| 15-02-2017<br>a<br>30-04-2017 | Apoio nas auditorias técnicas;  |     |           |              |            |       |            |                |
|                               | Implementação das ações comportamentais pela Brigada do Baixo Carbono (BBC);  |     |           |              |            |       |            |                |
| 26/2/2017 a<br>30-04-2017     | Avaliação das ações comportamentais;  |     |           |              |            |       |            |                |
| Abril                         | 2ª reunião Conselho Baixo Carbono - monitorização das ações e preparação do "Community Action Day";   |     |           |              |            |       |            |                |
|                               | "Community Action Day": apresentação das ações às comunidades escolares;  |     |           |              |            |       |            |                |
| 22 Abril (7)                  | Apresentação do Código Climático de cada escola para uma Economia de Baixo Carbono.   |     |           |              |            |       |            |                |

\* Em Portugal

## Módulo de Gamificação

| AÇÕES E OBJETOS PEDAGÓGICOS | DESCRIÇÃO  | GRANDEZAS |    |    |    |    |    |
|-----------------------------|--|-----------|----|----|----|----|----|
|                             |  | At        | 1ª | 2ª | 3ª | 4ª | 5ª |
| COF de Fatos                | Ata de apoio para exploração das políticas de baixo carbono e suas implicações nas políticas |           |    |    |    |    |    |
| Fichas de Exploração        | Guia de exploração da filmes, textos e vídeos  |           |    |    |    |    |    |
| Cartões Dinâmicos           | Ata para construção de cartões com valores formativos  |           |    |    |    |    |    |
| ClimACT Quiz                | Perguntas sobre os diferentes temas e áreas de atuação                                       |           |    |    |    |    |    |
| Climaplay                   | Jogo de tabuleiro com cartas e fichas de identificação                                       |           |    |    |    |    |    |
| Concurso Escolar "Solares"  | Concurso interno de formos solares   |           |    |    |    |    |    |

## ClimACT: cronograma | 2016

| 2ª Ano Letivo                | Ações  | Dir | Coord. BC | Coord. Prof. | Estudantes | Staff | Comunidade | Equipa ClimACT |
|------------------------------|--|-----|-----------|--------------|------------|-------|------------|----------------|
|                              | Compromisso com uma política que conduza a uma economia de baixo carbono na escola;  |     |           |              |            |       |            |                |
|                              | Nomeação do Coordenador Baixo Carbono na escola;   |     |           |              |            |       |            |                |
| 1/10/2016<br>a<br>10/11/2016 | Reunião com a equipa ClimACT   |     |           |              |            |       |            |                |
|                              | Identificação e convite aos membros da Comissão Baixo Carbono;   |     |           |              |            |       |            |                |
|                              | Elaboração para a identificação e convite aos membros da Brigada Baixo Carbono;  |     |           |              |            |       |            |                |
|                              | Voluntários para a Comissão Baixo Carbono;   |     |           |              |            |       |            |                |
|                              | Voluntários para a Brigada Baixo Carbono;  |     |           |              |            |       |            |                |
|                              | 1ª reunião da Comissão Baixo Carbono;  |     |           |              |            |       |            |                |
| 1/11/2016<br>a<br>01/12/2016 | Aplicação do 1º questionário comportamental para ser respondido por estudantes, professores, pais e colaboradores;                                   |     |           |              |            |       |            |                |
|                              | Aplicação das ações comportamentais sobre energia, água, resíduos, ar, compras sustentáveis e espaços verdes a serem executadas pela equipa ClimACT. |     |           |              |            |       |            |                |

## ClimACT: cronograma | 2017

(Abril - Sept)

| 2ª Ano Letivo | Ações   | Dir | Coord. BC | Coord. Prof. | Estudantes | Staff | Comunidade | Equipa ClimACT |
|---------------|---|-----|-----------|--------------|------------|-------|------------|----------------|
| Abril 2017    | Participação no curso "Learning sobre Desenvolvimento Sustentável";   |     |           |              |            |       |            |                |
| Maio 2017     | Participação no curso de formação ClimACT sobre ferramentas de apoio à decisão;   |     |           |              |            |       |            |                |
| Junho 2017    | Participação no curso de formação ClimACT sobre operação das ferramentas educacionais;  |     |           |              |            |       |            |                |
| Junho 2017    | 1ª reunião Conselho Baixo Carbono - avaliação do 1º ano, preparação do 2º ano: metas globais;   |     |           |              |            |       |            |                |
| Junho 2017    | Participação na definição das metas globais e desenvolvimento dos planos de ação baseados na avaliação de comportamentos, nas ferramentas educacionais desenvolvidas, soluções de gestão e medidas de alto custo; |     |           |              |            |       |            |                |
| Set-17        | Participação no Seminário sobre modelos de negócios na área energética;   |     |           |              |            |       |            |                |



ClimACT - Atuar na transição para uma economia de  
baixo carbono nas escolas

## Partilha de Ações ClimACT

### Debate



## Portugal: Focus group meeting

ISQ organized a focus group meeting entitled “Business models and management strategies for schools”. This event was held in Oeiras, Portugal in 27<sup>th</sup> March 2017 and account with 8 participants.

The list of participants is presented in [Table 4](#) and [Figure 9](#).

**Table 12 - List of participants in Focus Group #3**

| <b>Name</b>     | <b>Institution</b> |
|-----------------|--------------------|
| António Pereira | EcoInside          |
| João Pombo      | ISQ                |
| Ricardo Leite   | Galp               |
| Luis Fernandes  | Grow Vision        |
| Cláudia Mafra   | ISQ                |
| Ricardo Rato    | ISQ                |
| Marina Baptista | ISQ                |
| Sara Fernandes  | ISQ                |

Title of the meeting: Focus Group sobre Eficiência Energética em Escolas

WP n.º 1

Activity n.º 1-2

End time: 16:00

Airline - Portugal  
(Lisbon)

☐ IST    ☒ ISQ    ☐ EDIGREEN    ☐ ABAE    ☐ CIEMAT  
☐ USE    ☐ ULR    ☐ VLR    ☐ UniGib

[illegible]

### Minute of the focus group meeting

Ricardo Rato gave his welcome to all participants and started the meeting presenting the project (presentation is in attachment 6.3.).

The meeting was open for discussion and several participants had made questions about ClimACT project and its strategies for schools.

### ***AOB during focus group meeting***

During the session, pictures were taken in all different moments of the event, from the registration of attendees, the session explanation and some others of groups of attendees.

### ***Pictures of the Session***



**Figure 25 - Focus Group Meeting about Business models**

## Attendance List Assigned (Focus Group Meeting)

INTERREG - Adding the line item below to a new contract or modify an existing one - development of a report (see: 624517540420)

**Attendance List**

interreg studies CONTACT

Total time meeting: \_\_\_\_\_ "Use Cycle Assessment as a tool to enhance sustainability in educational centres performance"

Start: 2008/04/17 WP6: 1 Activity: 1.2

End: 2018/04/17 End time: \_\_\_\_\_

Meeting Venue (city and country): \_\_\_\_\_ Meeting: Study

Specifically Location: ☐ IST ☐ BQ ☐ EDU/EDU ☐ ABAS ☒ CONTACT  
☐ GISE ☐ GEM ☐ VUB ☐ UNG2


| Organization                      | Name                    | Email                              | Signature |
|-----------------------------------|-------------------------|------------------------------------|-----------|
| Universidad Rey Juan Carlos       | José Manuel Arribas     | jman.arribas@urjc.es               |           |
| Basquegipuzkoa (UNN)              | Julen Igoe Arribas      | juleni.igoe@educacion.gipuzkoa.eus |           |
| Universitat Complutense de Madrid | José María Rodríguez    | jrmr@ccma.es                       |           |
| Collegio Mayor de Madrid          | Enrique María Rodríguez | enrique.maria2@gmail.com           |           |
| Instituto Ortega y Gasset         | Alejandra Martínez      | alejandra.martinez@ortega.es       |           |

|                                   |                         |                                   |  |
|-----------------------------------|-------------------------|-----------------------------------|--|
| Ayuntamiento Alcalá de Henares    | José Antonio Olmeda     | jolmeda@ayto-alcaladehenares.es   |  |
| Instituto Ortega y Gasset         | Javier Ramos Díaz       | jrd.ramosdiaz@telefonica.net      |  |
| EducaMadrid (CAM)                 | Alejandro Romero Abello | alejandro.romero1@educamadrid.org |  |
| Universidad Politécnica de Madrid | Guillermo San Miguel    | g.sanmiguel@upm.es                |  |



## Portugal: Focus group meeting (Seminário Eco-Escolas - Guimarães)

ABAE organized a focus group meeting entitled “Fórum do Projeto Interreg Sudoe ClimACT”. This event was held in Guimarães, Portugal in 26<sup>th</sup> January 2018 and account with 9 participants. The list of participants is presented in Figure 11.




Interreg Sudoe ClimACT  
EUROPEAN REGIONAL DEVELOPMENT FUND

### Fórum do Projeto Interreg Sudoe ClimACT

26 de janeiro de 2018, 17h30-19h30, Seminário Eco-Escolas  
Guimarães, Portugal

#### Lista de Presenças

| Nome                           | Entidade  | Contactos   |
|--------------------------------|---|---|
| Giovanni Giorgetti             | ABAE  | GIORGETTI@ABAE.PT                                     |
| Rui Sousa Lemos                | A-E JULIA DIMIS   | IUR.SOUSA@HOTMAIL.COM                                 |
| Paula Amorim                   | A-E JULIA DIMIS   | prof.amorim@col.pt                                    |
| Cecília Ferreira               | Es. Abel Salazar<br>Hobsonian                                 | cec.mendes@esab.pt                                    |
| PEDRO PENA                     | AGRUPAMENTO DE ESCOLAS DE COMARTE -<br>J. NUNO ALVARES GARCIA | PED.PENA@HOTMAIL.COM<br>934 10 33 85                  |
| Vitor Manteigas                | ESRSL   | VITOR.MANTEIGAS@ESRSL.PT                              |
| Ana Carolina Bernardo Ferreira | EBGHD   | acristinabferreira@espp.pt<br>ghd.cavaleiro@gmail.com |
| Paula Cristina Castelo Viegas  | EBGHD   | pccviegas@gmail.com                                   |
| INES CARDIM                    | EBGHD   | inescardim@gmail.com<br>ghd.cavaleiro@gmail.com       |
|                                |   |   |
|                                |   |   |
|                                |   |   |



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Figure 26 – Attendance List assigned (Focus Group Meeting #4)

### Minute of the focus group meeting

The scheduled meeting timetable was from 17:30 to 19:30. Participants arrived and at 17:30 with the arrival of the last participant, the photos of the event were taken by Vítor Manteigas

(IST/ESTeSL) and the session begun. This meeting was attended by the Low Carbon Coordinators of schools in Portugal.

Giovanni Giorgetti gave his welcome to all participants and started the meeting presenting the situation of the project in Portugal and in other countries. The meeting was open for discussion and all the teachers presented the work developed in each school and the difficulties they had in the first year of the project.

### ***AOB during focus group meeting***

During the session, pictures were taken in all different moments of the event, from the session explanation and some others of the participants.

#### *Pictures of the Session*





# Portugal: Presentation of the ClimACT project

## First External Advisory Board Meeting

The first ClimACT External Advisory Board Meeting was hosted by Instituto Superior Técnico (IST) and it was held at Bobadela (Portugal) on 7<sup>th</sup> September 2016. Twenty-one EAB members participated in this meeting. The list with the names is presented below (Table 5).

**Table 13 - List of EAB Members in 1<sup>st</sup> EAB Meeting**

|           |   |
|-----------|---|
| Portugal  | 1. Câmara Municipal de Loures   |
|           | 2. Câmara Municipal de Matosinhos   |
|           | 3. Câmara Municipal de Vila Nova de Gaia  |
|           | 4. Agência Portuguesa do Ambiente - Ministério do Ambiente  |
|           | 5. Direção Geral da Educação - Ministério da Educação   |
|           | 6. Agência de Energia do Porto  |
|           | 7. Associação das Agências de Energia e Ambiente  |
|           | 8. Associação Pólo de Competitividade e Tecnologia da Energia   |
|           | 9. Associação Portuguesa das Empresas de Serviços de Energia  |
| Spain     | 10. Ayuntamiento de Alcala de HERNANDES   |
|           | 11. Municipality of Seville   |
|           | 12. Ministry of Agriculture, Food and Environment. Spanish Office of Climate Change                     |
|           | 13. Ministry of Education, culture and sports. Instituto Nacional de Tecnologías Educativas y Formación |
|           | 14. Agencia Pública Andaluza de Educación (Consejería de Educación, Junta de Andalucía)                 |
|           | 15. Agencia Andaluza de la Energía  |
|           | 16. Asociación de Educación Ambiental y del Consumidor  |
|           | 17. Argos. Proyectos educativos S.L.  |
| France    | 18. Agence pour la Défense de l'Environnement et la Maîtrise de l'Energie                               |
| Gibraltar | 19. Her Majesty's Government of Gibraltar's Department of the Environment and Climate Change            |
|           | 20. Her Majesty's Government of Gibraltar's Department of Education                                     |
| Andorra   | 21. Departament d'Escola Andorrana i Formació Andorrana, Ministeri d'Educació i Ensenyament Superior    |

The working agenda of the Kick-off meeting was the following:

1. Reception of the EAB members;
2. Opening and Welcome Address;
3. General overview of the project: objectives, introduction of the team (beneficiaries and EAB members) and structure of the project;
4. WP description and expected roles and involvement of each EAB member in the WP;
5. Round Table: SWOT analysis of the project.

## SWOT Analysis

### Strengths

- Greater involvement of users
- Networking obligation
- More systematic information that allows better reference states.
- Environmental education in schools from childhood
- Trade of experiences between different countries and institutions
- More efficient management of school buildings.
- LCE = to save
- User + community – engagement approach
- Innovative business models
- Regional networks
- Relationship between members and university
- Motivation of partners
- Commitment of EAB members
- This project is in accordance to European aims and regulations. Less CO2 emissions will be “a must” to achieved near zero energy near zero energy building (2018 public buildings)
- High level of expertise from the coordinating entities
- Multinationalism – diversity of situations
- Multidisciplinary of the team
- Easy involvement of stakeholders
- Active involvement of stakeholders
- Ambitions
- Multidisciplinary
- Education at all levels
- Networking
- All in one solution
- Communication effort
- Broad partner and AB. BASE
- A lot of previous project and resources in the field that can be use as initial point
- Multidisciplinary networking development of tool to be used
- Good initial networking
- Good plan well thought!!!

### Weaknesses

- Lack of dissemination effort form the schools outside of the project
- Different school curriculum between countries
- Requires collaboration of many decision agents
- Time for this ambitious project
- Level of information for the start of the project at school level
- Schools participations
- Implementation of action plans
- The need of “public contest” for the acquisition of goods and services in public sector



- Lack of time (maybe)
- Too many projects working in the same field
- Little impact of project activities
- Difficulty of communication and interaction between agents
- There will be a multiplicity of different multi-speakers from which obtain the data.  
Could be difficult to organize and coordinate them
- Language and traduction
- Validation path between partner and availability
- Difficulty of interaction between various stakeholders
- Discrepancies between the levels of information between partners
- Slowness in represented
- No funds are available for co-financing the implementation of project actions
- Money not sure
- Broad range of base variables (energy, IAQ, waste)
- Correct definition of energy services level (lighting level, CO2 level, confort parameters...)
- May be too scientific/academic
- Low reception of the schools to the project activities (meetings, AB..)
- Lack of communication
- Information of schools could be inappropriate
- Poor knowledge of school staff

## Opportunities

- Tools let the interaction between potential funding agents and school staffs
- New products and cheap coming!
- General project city
- Increase the know-how of the school community in this area
- It's a way to reach all the community around schools
- Business models
- Opportunity to reach a large number of schools
- Opportunity to change attitudes in children driver to a much large scale change
- Holistic approach to the global problem through education
- Highlighting of the best energy efficiency solutions for buildings
- Teach future generations
- Engage local authorities
- Increased awareness and consequent changes in behavior
- Behavior changes
- Economic with possible increase of new businesses and jobs
- Common methodology to work with schools
- Exchange of experiences knowledge
- Increase know-how of schools
- Increase networking
- Common platform to gather info and share
- Education about sustainability for children, ensure sustainable future
- Networking e learning together

- European targets to CO2 emissions decrease
- Partnership with another research projects
- Near zero energy buildings approach for schools
- To improve indoor air quality and the learning work conditions for students and teachers
- New citizen skills needed for education
- Networking LCE awareness
- Increase of society awareness about low carbon economy sustainability
- Rising awareness on sustainability by local governments
- Work on a pilot model for "Scale up"
- Opening new areas for deployment as other public buildings

### Threats

- Schools selection and schools engagements
- Too ambitious goals to achieve, can be lost in time
- Effective motivation of audience, stakeholders and focus groups
- In some schools the fact that the management of more efficient buildings not translate into direct benefits for school
- Don't get many schools
- Lack of engagement from the school community
- Adequate choice of school liaison teacher/group
- Schools' engagement (not) get involved with teacher and a student community
- Constraints due to lack of funds to implement important measures
- External changes: - regulations and contacts
- Impossible to see and prevent the results
- Don't win access to schools, because only a low motivation level in school community are achieved
- Perennity of project
- Animation along the times of actions
- Calendar
- ESCO contracts and public procurement.
- ESCO and "one school" financial dimension
- Lack of funding for implementing measures
- Lack of sustainability in time of the measures due to lack of maintenance
- Language barriers
- No use of beyond the lifespan of the project
- Behavior change resistance
- Investment costs of measures
- Different support to develop for different ages (elementary school and university)
- Other similar projects
- Lack of support or commitment by the stakeholders namely schools staff
- Economically



Figure 27 - EAB Participants and Speakers

## Presentation of the ClimACT project to Pilot-Schools in Matosinhos – first meeting

ABAE, in collaboration with EDIGREEN and the Associate Partner of the Municipality of Matosinhos, organized a meeting with the representatives of the Pilot Schools of Matosinhos and Vila Nova de Gaia to present the ClimACT project. This meeting took place on October 19, 2016 in the Municipal Library of Matosinhos. This meeting was attended by 8 people (Table 6 and Figure 15) who held an open discussion on the ClimACT project, the role of the partners and the pilot schools throughout the project's time frame.

**Table 14 - List of participants in Matosinhos' Meeting**

| Full Name         | Affiliation                    |
|-------------------|--------------------------------|
| Margarida Gomes   | ABAE                           |
| Giovani Giorgetti | ABAE                           |
| Renata Santos     | Escola Secundária Abel Salazar |
| Paulo Amorim      | E. B. Júlia Dinis              |
| Ana Paula Castro  | E.B. Padre Manuel              |
| Karla G.          | EDIGREEN                       |
| José L. Alexandre | EDIGREEN                       |
| Ricardo Teixeira  | C. M. Matosinhos               |

## Reunião de Apresentação do Projeto ClimACT Interreg SUDOE | Escolas do Norte

19 de Outubro de 2016, 14h00 – Biblioteca Municipal Florbela Espanca  
Matosinhos, Portugal

### Lista de Presenças

| Nome               | Entidade          | Contacto                       |
|--------------------|-------------------|--------------------------------|
| MARGARIDA GOMES    | ABAE              | margaridagomes@abae.pt         |
| GIOVANNI GIORGETTI | ABAE              | giorgetti@abae.pt              |
| RENATA SANTOS      | A.E.A.S.          | Renata.santos@easmatosinhos.pt |
| Paulo Amaro        | E.B. Júlio Dinis  | prof.amaropaulo@ebjdp.pt       |
| Alia Paula Castro  | E.B. Paulo Passos | AliaPaulaCastro@ebpp.pt        |
| Karla G.           | EDIGREEN          | Karla.g@edigreen.pt            |
| JOSE L. ALEXANDRE  | EDIGREEN          | JLA@EDIGREEN.pt                |
| Ricardo Teixeira   | C.M. Matosinhos   | maire@cm-matosinhos.pt         |
|                    |                   |                                |
|                    |                   |                                |
|                    |                   |                                |
|                    |                   |                                |
|                    |                   |                                |

Figure 28 - Attendance List assigned (Matosinhos first meeting)



## ***Agenda of the first meeting in Matosinhos***

| <b>ClimACT - Stakeholder Meeting in Matosinhos</b> |   |   |
|--|---|---|
| <b>Time</b>  | <b>Session</b>  | <b>Participants</b>                                   |
| 14:00 - 14:30                                      | Registration and delivery of documentation.                                       | Margarida Gomes<br>Ricardo Teixeira<br>José Alexandre |
| 18:00 - 18:30                                      | ClimACT project: Initial explanation, general objectives, scope and expectations. | Margarida Gomes<br>José Alexandre                     |
| 18:45 - 19:15                                      | ClimACT project: structure, tasks, dates and work-phases.                         | Margarida Gomes<br>José Alexandre                     |
| 19:15 - 19:30                                      | Debate and answer to any doubts.  | All   |

**Duration of the session: 120 minutes approximately.**

## ***Minute of the first meeting in Matosinhos***

### **Welcome and opening**

The session began with the registration and delivery of the documentation to all participants who attended representing to each educational centre or other institutions.

The institutions and the pilot-schools which attended to the session were the municipality of Matosinhos, ABAE, EDIGREEN, Escola Secundária Abel Salazar, E. B. Júlia Dinis, E.B. Padre Manuel.

### **Overview of the discussion**

Ricardo Teixeira, Head of the Quality Department of Municipality of Matosinhos, started with a brief welcome remark to all the participants. Then, Margarida Gomes and José Alexandre presented themselves and also acknowledged the participants to be there.

Margarida Gomes, member of the research team from the ABAE, started the session with a brief explanation of the project, defining the main objectives, methodology tools which are going to be needed and what relation is expected between the research team of the university and each educational centre for the correct development of the project (Annex 6.4).

Also Margarida Gomes presented the structure of the project, detailing the delivery dates and content of each phase. In addition, the surveys required to be completed by the educational community were explained and the foreseen schedule of the visits to carry out pre-audits in all pilot centres was shown.

José Alexandre presented the structure of the tool.

Finally, a time of debate was opened about different contributions of the attendees and the doubts that arose, as well as checking at the end the availability of each centre to receive members of the ClimACT team to carry out pre-audits.

## **Conclusions**

The meeting served as a starting point to explain the ClimACT project and organize tasks with all the pilot-schools. The main objective of the ClimACT project was shown, to promote the transition to a Low Carbon Economy in schools through the experience of the teaching community, researchers and management administrations.

The participating institutions and educational centres had a first contact with the research team of ABAE and EDIGREEN of the ClimACT project, and received initial information about the objectives, necessary requirements, deadlines and phases of action to be able to inform their teaching community of their own centres.

## ***AOB during the first meeting in Matosinhos***

During the session, pictures were taken in all different moments of the event, from the registration of attendees, the session explanation and some others of groups of attendees.

## ***Pictures of the Session***



***Figure 29 – Table with the representative of each partner: ABAE, EDIGREEN and Municipio de Matosinhos***



*Figure 30 – Margarida Gomes from ABAE during her presentation*



*Figure 31 – Participants on the Stakeholder Meeting in Matosinhos*

## Presentation of the ClimACT project to pilot-schools in Loures – first meeting

ABAE, in collaboration with the leading partner - IST - and the Associated Partner, the Municipality of Loures, organized a meeting with the representatives of the Loures Pilot Schools to present the ClimACT project. This meeting took place on October 24, 2016 at the premises of the Municipality of Loures. This meeting was attended by 20 persons (Table 7 and Figure 19) who held an open discussion on the ClimACT project, the role of the partners and the pilot schools throughout the project time frame.

**Table 15 - List of participants in Loures' Meeting**

| Full Name             | Affiliation                            |
|-----------------------|--|
| Margarida Gomes       | ABAE                                   |
| Giovani Giorgetti     | ABAE                                   |
| Marta Almeida         | IST                                    |
| Ana Risota            | CMLoures                               |
| Susana Entrezede      | CMLoures                               |
| Marina Almeida-Silva  | IST                                    |
| Carlos Pina           | IST                                    |
| Ana Isabel Ribeiro    | CMLoures                               |
| Rui Campos            | E.B. 2,3 Mário Sá Carneiro             |
| Rui Pecurto           | CMLoures                               |
| Fernando Noivo        | CMLoures                               |
| Teresa Loureiro       | Agrupamento de Escolas João Villaret   |
| Ana Monteiro          | ESTeSL                                 |
| Ana Sabino            | ESTeSL                                 |
| Ana Cristina Ferreira | Escola Secundária Humberto Delgado     |
| Anabela Pereira       | Escola Secundária José Cardoso Pires   |
| Ana Margarida Brito   | Escola Secundária José Cardoso Pires   |
| Inês Passos           | Escola Básica General Humberto Delgado |
| Ana Isabel Lobo       | Agrupamento de Escolas de Camarate     |
| Catarina Vasconcelos  | Agrupamento de Escolas de Camarate     |

## Reunião de Apresentação do Projeto ClimACT Interreg SUDOE | Escolas de Lisboa

24 de Outubro de 2016, 14h00 – Auditório do Palácio Marqueses da Praia  
Loures, Portugal

### Lista de Presenças

| Nome                  | Entidade  | Contacto                       |
|-----------------------|---|--------------------------------|
| Margarida Gomes       | ABAE  | margaridagomes@abae.pt         |
| Giovanni Giorgetti    | ABAE  | giorgetti@abae.pt              |
| Murk Almeida          | IST   | Smart@ctn-ist.utl.pt           |
| Ana Rinate            | CM Loures                                       | ana_rinate@cm-loures.pt        |
| Silvana Entrecede     | CM Loures                                       | silvana-entrecede@cm-loures.pt |
| Maria Alinda Sim      | IST   | mariaalinda@ist.utl.pt         |
| Carlos Pina           | IST   | carlos.pina@gmail.com          |
| João Tiago Ribeiro    | CM Loures                                       | joao.tiago@cm-loures.pt        |
| Rui Gonçalves         | ESB 23 Maria Joia Loures                        | rui.goncalves@gmail.com        |
| Dr. Francisco         | Cap Loures                                      | francisco@cap-loures.pt        |
| Rui do Minho          | Cap Loures                                      | rui.do.minho@cap-loures.pt     |
| Teresa Loureiro       | Ag. Impulso Escolas<br>José Villaverde - Loures | teresa.loureiro@ag-impulso.com |
| Ana Monteiro          | ESTES   | ana.monteiro@estes.ips.pt      |
| Ana Sabina            | ESTES   | ana.sabina@estes.ips.pt        |
| Ana Cristina Ferreira | Esc. Gen. Humb. Delgado                         | ghd.cavaleiro@gmail.com        |
| Anabela Pereira       | Esc. Sec. José Castilho                         | expressoanabela@gmail.com      |
| Ana Margarida Baixo   | Esc. Sec. José Castilho                         | anamargarida.baixo@gmail.com   |
| Inês da Paixão        | Esc. Sec. General Humberto Delgado              | ecoescdasghd@gmail.com         |
| Ana Isabel Lobo       | Ag. Escolas Castilho                            | anabellobo@gmail.com           |
| Catarina Vasconcelos  |   | catarina.vasconcelos@gmail.com |

Figure 32 - Attendance List assigned (Loures first Meeting)

## **Agenda of the first meeting in Loures**

| ClimACT - Stakeholder Meeting in Loures |   |   |
|---|---|---|
| Time                                    | Session   | Participants  |
| 14:00 - 14:30                           | Registration and delivery of documentation.                                       | Margarida Gomes<br>Marta Almeida<br>Pedro Amorim<br>Ana Gaiolas |
| 18:00 - 18:30                           | ClimACT project: initial explanation, general objectives, scope and expectations. | Margarida Gomes<br>Marta Almeida                                |
| 18:45 - 19:15                           | ClimACT project: structure, tasks, dates and work-phases.                         | Margarida Gomes<br>Marta Almeida                                |
| 19:15 - 19:30                           | Debate and answers to any doubts.   | All   |

**Duration of the session: 120 minutes approximately.**

## **Minute of the first meeting in Loures**

### **Welcome and opening**

The session began with the registration and delivery of the documentation to all participants who attended representing to each educational centre or other institutions.

The institutions and the pilot-schools which attended to the session were the municipality of Matosinhos, ABAE, EDIGREEN, Escola Secundária Abel Salazar, E. B. Júlia Dinis, and E.B. Padre Manuel.

### **Overview of the discussion**

Pedro Amorim, Head of the Environmental Department of Municipality of Loures, started with a brief welcome remark to all the participants. Then, Margarida Gomes and Marta Almeida presented themselves and also acknowledged the participants to be there.

Marta Almeida, member of the research team from the IST and coordinator of the ClimACT project, started the session with a brief explanation of the project, defining the main objectives, the structure of the project, methodology tools which are going to be needed and what relation is expected between the research team of the university and each educational centre for the correct development of the project.

Margarida Gomes presented the structure of the project, detailing the delivery dates and content of each phase. In addition, the surveys required to be completed by the educational community were explained and the foreseen schedule of the visits to carry out pre-audits in all pilot centres was shown.

Finally, a time of debate was opened about different contributions of the attendees and the doubts that arose, as well as checking at the end the availability of each centre to receive members of the ClimACT team to carry out pre-audits.



At the end of the meeting Municipality of Loures offered a coffee and a snack to all participants giving the opportunity to chat to each other in an informal way.

### **Conclusions**

The meeting served as a starting point to explain the ClimACT project and organize tasks with all the pilot-schools. The main objective of the ClimACT project was shown, to promote the transition to a Low Carbon Economy in schools through the experience of the teaching community, researchers and management administrations.

The participating institutions and educational centres had a first contact with the research team of ABAE and IST of the ClimACT project, and received initial information about objectives, necessary requirements, deadlines and phases of action to be able to inform their teaching community of their own centres.

### ***AOB during the first meeting in Loures***

During the session, pictures were taken in all different moments of the event, from the registration of attendees, the session explanation and some others of groups of attendees.

### ***Pictures of the Session***



***Figure 33 – Table with the representative of each partner: ABAE, IST and Municipio de Loures***



Figure 34 - Participants in Stakeholders Meeting in Loures (part I)



Figure 35 - Participants in Stakeholders Meeting in Loures (part II)



Figure 36 - Participants in Stakeholders Meeting in Loures (part III)



Figure 37 - Coffee break offered by Loures Municipality



Figure 38 – Participants on the meeting of Loures' Pilot-Schools

*Presentation on the Stakeholder' Meeting in Matosinhos and Loures: first meeting*

# ClimACT

Acting for the transition to a low carbon  
economy in schools  
— development of support tools

Interaction with the schools presentation



# ClimACT main objective:

to promote the transition to a Low Carbon Economy (LCE) in the Educational Sector.



ClimACT project summary 

## The project aims:

- The development of **tools, specific for schools, for monitoring** and optimizing their energy and environmental performance.
- To disseminate in schools **innovative methodologies** that will internalize the environment, safety and health costs.
- The identification of the most sustainable solutions for schools, based on **smart management of energy**, renewable energy and behaviors, among others.
- The development of **new business models** for schools that will ensure cost-efficiency and significantly reduced payback periods for Energy Service Companies (ESCOs) and Energy Performance Contracts (EPC) projects.
- The development and delivering of holistic, comprehensive and technology-assisted **educational tools for active learning** towards educating school children and younger's in low carbon-awareness.

ClimACT project summary 

## The project will be developed:

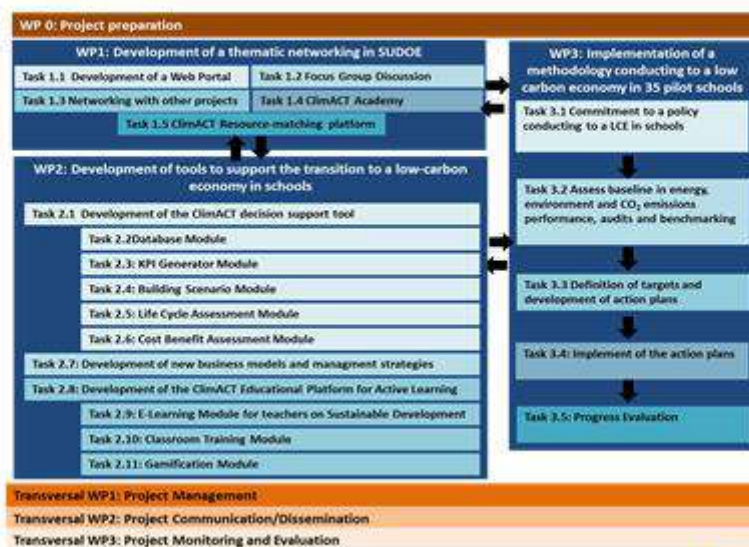
- in 35 pilot schools from Portugal, Spain, France and Gibraltar.

- By 9 partners with complementary roles from all SUDOE countries that will coordinate sharing of good practice and implementation of joint solutions to common challenges affecting effective energy and environment management in schools.

**After the end of the project, the awareness-raising activities and tools deployed in the educational sector could be transferred to a wider number of schools (including international Eco-Schools network) and even more to other environments like public buildings, hotels or homes.**

interreg  
Sudoe  
ClimACT  
ClimACT project summary

## Project structure



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Sudoe  
ClimACT  
ClimACT project summary



## Description of the project modules (workpackages)

### •Work Package 1(WP1) - Development of a thematic networking in SUDOE

Thematic Network in the SUDOE Region to promote the transition to a LCE in schools. The thematic networking in SUDOE will be boosted by the ClimACT Living Lab that will raise awareness, foster capacity building and a communication framework with end-users and relevant stakeholders.

The ClimACT Living Lab will involve the:

- 1) development of the ClimACT Gateway (task 1.1);
- 2) promotion of Focus Group Discussion Events (task 1.2);
- 3) interaction with other projects (task 1.3);
- 4) creation of the ClimACT Academy (task 1.4);
- 5) creation of the ClimACT Resource Matching Platform (task 1.5).



*outputs*

|  |
|--|
| ClimACT Gateway  |
| Network of stakeholders, end-users and other project teams               |
| ClimACT Academy Infrastructure   |
| Training course on the ClimACT Decision Support Tool Operation           |
| Seminar on Business Models for ESCO                                      |
| E-Learning Course on Sustainable Development                             |
| Training Course on the ClimACT Educational Tools Operation               |
| Awareness Campaigns with Presentation of ClimACT Gamification Approaches |
| Awareness-raising Campaigns for Parents                                  |
| ClimACT Resource-Matching Platform                                       |

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ClimACT project summary

## Description of the project modules (workpackages)

### Work Package 2 (WP2) - Development of a thematic networking in SUDOE

• Decision Support Tool to assess schools' energy and environment performance, to predict building energy consumption along the whole lifecycle and to identify sustainable action plans (Task 2.1)

• Database Module (Task 2.2) will create an available, accessible, comparable and interoperable database. The KPI Generator Module (Task 2.3) will help schools to track their performance, to measure their progress and to identify scope for improvement. Building Scenario's Module (Task 2.4) users will shape scenarios associated to action plans whose impacts and costs will be assessed through the Life Cycle Analysis Module (Task 2.5) and Cost Benefit Assessment Module (Task 2.6).

• The usability of current Energy Performance Contracts and dominant business models in the ESCO educational sector market will be validated, and first-kind business models will be tested on the basis of Innovative Energy Efficiency Services Agreements (Task 2.7).

• Educational Platform for Active Learning (Task 2.8), with 3 modules:

E-Learning Module (Task 2.8),  
Classroom Training Module (Task 2.9)  
and Gamification Approaches Module (Task 2.10).



*outputs*

|  |
|--|
| Climact Decision Support Tool  |
| ClimACT Benchmarking Platform for the Educational Sector                     |
| Methodology for Cost/Benefit Analysis  |
| Energy Performance Contracts Business Models                                 |
| ClimACT Educational Platform for Active Learning                             |
| Strategy to include the ClimACT LCE contents and activities in the curricula |

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ClimACT

ClimACT project summary

## Description of the project modules (workpackages)

### Work Package 3 (WP3) - Implementation of a methodology conducting to a low carbon economy in 35 pilot schools

The methodology, supported by the tools developed in WP2, will be validated in real-life conditions, in 35 schools from Portugal, Spain, France and Gibraltar, over a period of 34 months with the aim to ensure the reliability of the final outcomes.

The methodology will involve 6 steps:

- the commitment to a LCE policy in schools;
- the assessment of baseline performance of the schools including technical audits, generation of KPI and Benchmarking;
- the identification of environment and energy efficiency goals to help maintain momentum for environment and energy management activities, guide daily decision making and track and measure progress and the selection of action plans that will serve as a road-map towards meeting the energy and environment goals;
- the implementation of the action plans;
- progress evaluation.



#### outputs

- Implementation of a methodology aiming a LCE in 35 pilot schools
- Methodology to implement a LCE in schools
- ClimACT tools validated
- Strategic Action Plans conducting to a LCE in SUDOE schools

## ClimACT | Project team

| Country                    | Institution   | Acronym  | Image  |
|----------------------------|---|----------|--|
| Portugal                   | Instituto Superior Técnico  | IST      |  |
|                            | Instituto de Soldadura e Qualidade                                    | ISQ      |  |
|                            | EDIGREEN - Soluções Energéticas, Lda                                  | EDIGREEN |  |
|                            | Associação Bandeira Azul da Europa                                    | ABAE     |  |
| Spain                      | Centro de Investigaciones Energéticas Medioambientales y Tecnológicas | CIEMAT   |  |
|                            | Universidad de Sevilla  | USE      |  |
| France                     | Université de La Rochelle   | ULR      |  |
|                            | Ville de La Rochelle  | VLR      |  |
| United Kingdom (Gibraltar) | University of Gibraltar   | UoGib    |  |

| Country   | Institution   |
|-----------|---|
| Portugal  | <ol style="list-style-type: none"> <li>1. Câmara Municipal de Loures</li> <li>2. Câmara Municipal de Matosinhos</li> <li>3. Câmara Municipal de Vila Nova de Gaia</li> <li>4. Agência Portuguesa do Ambiente - Ministério do Ambiente</li> <li>5. Direção Geral de Educação - Ministério da Educação</li> <li>6. Agência de Energia do Porto</li> <li>7. Associação das Agências de Energia e Ambiente</li> <li>8. Associação Pólo de Competitividade e Tecnologia da Energia</li> <li>9. Associação Portuguesa das Empresas de Serviços de Energia</li> </ol>                                |
| Spain     | <ol style="list-style-type: none"> <li>1. Ayuntamiento de Alcalá de Henares</li> <li>2. Municipality of Seville</li> <li>3. Ministry of Agriculture, Food and Environment, Spanish Office of Climate Change</li> <li>4. Ministry of Education, Culture and Sports, Instituto Nacional de Tecnologías Educativas y Formación</li> <li>5. Agencia Pública Andaluza de Educación (Consejería de Educación, Junta de Andalucía)</li> <li>6. Agencia Andaluza de la Energía</li> <li>7. Asociación de Educación Ambiental y del Consumidor</li> <li>8. Argos, Proyectos educativos S.L.</li> </ol> |
| France    | <ol style="list-style-type: none"> <li>1. Agence pour la Défense de l'Environnement et la Maîtrise de l'Énergie</li> </ol>  |
| Gibraltar | <ol style="list-style-type: none"> <li>1. Her Majesty's Government of Gibraltar's Department of the Environment and Climate Change</li> <li>2. Her Majesty's Government of Gibraltar's Department of Education</li> </ol>   |
| Andorra   | <ol style="list-style-type: none"> <li>1. Departament d'Escoles Andorranes i Formació Andorran, Ministeri d'Educació i Ensenyament Superior</li> </ol>  |

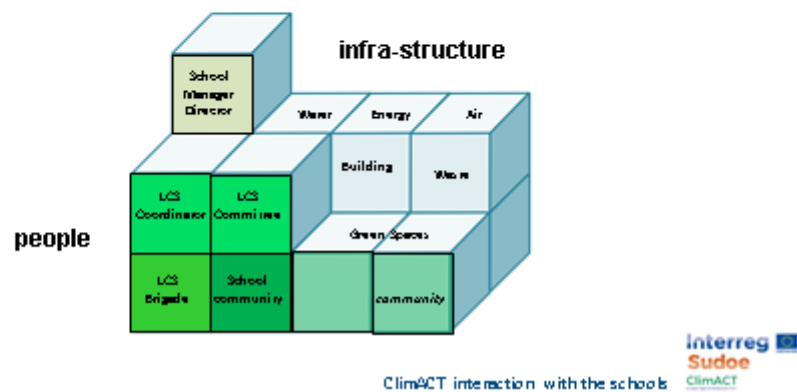
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# ClimACT : what is involved

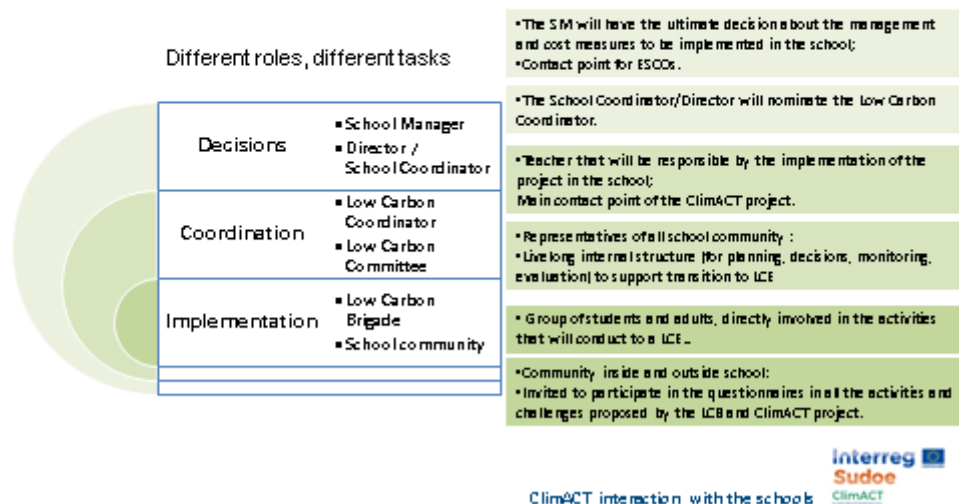
## - infra-structure and people

To assure the effective transition to a LCE, a robust structure needs to be created in the schools that involves not only the **infra-structure** but also **people** with different levels of engagement



## ClimACT: who is involved

The ClimACT project aims to **involve all the school community**



## ClimACT: School Direction



DIRECTOR

- The Director is the person who decides about infrastructure, resources, and people management.
- In some countries or schools this role can be played for 2 different persons : the School Manager (SM) and the School Coordinator (SC)

Tasks

- Commitment to a policy conducting to a LCE in the school;
- Nomination of LC Coordinator (SC)
- Supervising the best strategies to involve the alls school and community in implementing, monitoring and evaluating the actions (SC)
- Participation in LC Committee meetings (SC)
- Attend the training courses on: ClimACT decisions support tool (SM) and (SC);
- Attend the Seminar on business models for ESCO (SM)
- Ultimate decision about the management and cost measures to be implemented in the school (SM)



ClimACT interaction with the schools

## ClimACT: Low Carbon Coordinator



COORDINATOR

- One\* teacher choosed by School Manager/Director
- Leads the Project in school
- Contact point to ClimACT project

Tasks

- Invite LC Committee members; coordinate the meetings
- Implement the best strategies to involve the alls school and community in implementing, monitoring and evaluating the actions
- Communication about the project in school and community
- Monitor, evaluate and report the evolution of conditions, behavior, knowledge and skills for LCEconomy;



ClimACT interaction with the schools

## ClimACT: Low Carbon Committee



### COMITEE

- Livelong internal structure;
- Forum for ideas, discussion, proposals, planning, monitoring and evaluation that will meet 3 to 4 times a year;
- Compos ed by students, teachers, staff, parents, municipalities and other relevant entities (e.g. local energy/environment agencies; NGOs) (50% adults/50% students).

### Tasks

- Prioritize actions to be developed;
- Decide on the best strategies to involve the school and implement, monitor and evaluate the actions
- Set responsibilities;
- Monitor, evaluate and report the evolution of conditions, behaviours, knowledge and skills for LCE.



ClimACT interaction with the schools



## ClimACT: Low Carbon Brigade

### BRIGADE

- Compos ed mainly by students; participation of teachers and other staff;
- Put in operation the activities that will conduct to a LCE.
- The school can select the LCB according to their interest. Examples: 3 classes from the school or extra-curricular activities atelier.

### Tasks

- Implementation and analyses of behaviour questionnaire
- Use of the Educational Tools developed in the framework of the ClimACT project;
- Participation in the audits;
- Implementation of actions for school community and parents;
- Monitor and evaluation of actions



ClimACT interaction with the schools



## ClimACT: questionner and audits



### Behaviour questionnaire

about individual behaviour and habits  
is the use of energy, water, waste,  
mobility, green procurement and  
green spaces

Questioner proposed by ClimACT  
team, approved in LC Committee and  
implemented by teachers with the  
support of the LCE Brigades.  
To be answered by students, teachers,  
staff and parents



### Technical audits

on energy, water, waste, air, green  
procurement and green spaces

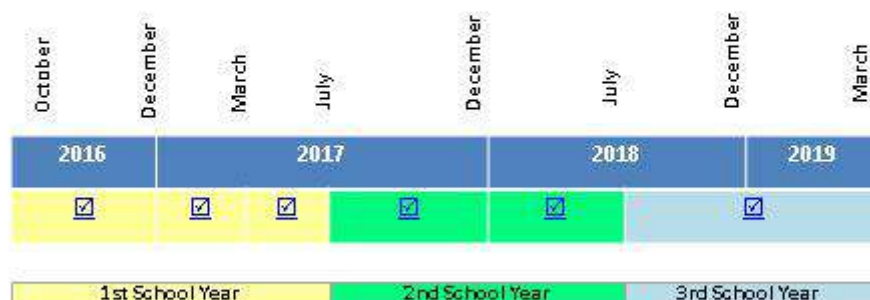
Work based on measurements on the  
schoolsto be performed by the  
ClimACT team with the support of the  
LC Brigades.



ClimACT interaction with the schools



## ClimACT: timeline



ClimACT interaction with the schools

## ClimACT: timeline | 2016 (Sept - December)

| 1st School year         | Actions   | Director                            | LC Coordinator                      | Other teachers                      | Students                            | Staff                               | Community                           | ClimACT team                        |
|-------------------------|---|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| 1/10/2016 to 15/11/2016 | Commitment to a policy conducting to a LCE in the school;   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |                                     |                                     |                                     |                                     |
|                         | Nomination of the <u>Low Carbon Coordinator</u> in the school;  | <input checked="" type="checkbox"/> |                                     |                                     |                                     |                                     |                                     |                                     |
|                         | Meeting with ClimACT team   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |                                     |                                     |                                     | <input checked="" type="checkbox"/> |
|                         | Identification and invitation of LC Committee members   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |                                     |                                     |                                     |                                     |
|                         | Strategy to identification and invitation of LC Brigades.   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |                                     |                                     |                                     |                                     |
|                         | Volunteer to the Low Carbon Committee.  |                                     |                                     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |                                     |
|                         | Volunteer to the Low Carbon Brigades.   |                                     |                                     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |                                     |
| 1/11/2016 to 31/12/2016 | <u>1st LC Committee meeting.</u>  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
|                         | Application of the 1st behaviour questionnaire (baseline) to be answered by students/ teachers/ staff/parents).                                 |                                     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |                                     | <input checked="" type="checkbox"/> |
|                         | Support of technical pre-audits related with energy, water, waste, air, green procurement and green spaces to be performed by the ClimACT team. | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     | <input checked="" type="checkbox"/> |                                     |                                     | <input checked="" type="checkbox"/> |

ClimACT interaction with the schools



## ClimACT: timeline | 2017 (January - April)

| 1st School year          | Actions  | Director                            | LC Coordinator                      | Other teachers                      | Students                            | Staff                               | Community                           | ClimACT team                        |
|--------------------------|--|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| 20 to 22 January 2017    | ClimACT workshop on educational ClimACT tools and curriculum (in Eco-Schools National Seminar <sup>1</sup> )       |                                     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |                                     |                                     | <input checked="" type="checkbox"/> |
| 01-01-2017 to 31/1/2017  | Analysis of the behavior questionnaire by the LC Brigades  |                                     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |                                     |                                     |
|                          | <u>2nd LC Committee meeting</u> – results of questionnaire; proposal of behavior actions; eco-code                 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |                                     |
|                          | Presentation of the behavior questionnaire results to the school community.  |                                     | <input checked="" type="checkbox"/> |                                     | <input checked="" type="checkbox"/> |                                     | <input checked="" type="checkbox"/> |                                     |
| 01-02-2017 to 28-02-2017 | Development of at least 4 actions by the school and LCB in order improve the community awareness about LC behavior |                                     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |                                     |                                     |
| 15-02-2017 to 30-04-2017 | Support of technical audits.   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |                                     |                                     |                                     |                                     |
| 28/2/2017 to 30-04-2017  | Implementation of the behavior actions by the LCB;   |                                     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |                                     |                                     |
|                          | Evaluation of behavior actions   |                                     | <input checked="" type="checkbox"/> |                                     | <input checked="" type="checkbox"/> |                                     |                                     | <input checked="" type="checkbox"/> |
| April                    | <u>3rd LC Committee meeting</u> – monitor and evaluate Community Action Day  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |                                     |
| 22 April (?)             | Community Action Day: presentation of the actions to the schools community;  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
|                          | Sign the School Eco-Code for a Low Carbon Economy  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |

<sup>1</sup> in Portugal;

ClimACT interaction with the schools



## ClimACT: timeline | 2017 (April - Sept)

| 1st School year | Actions  | Director                            | LC Coordinator                      | Other teachers                      | Students                            | Staff                               | Community                           | ClimACT team                        |
|-----------------|--|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| April 2017      | Participation in the E-learning course on Sustainable Development  |                                     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |                                     |                                     |                                     |
| May 2017        | Participation in the training course on ClimACT decision support tool.   | <input checked="" type="checkbox"/> |                                     |                                     |                                     |                                     |                                     |                                     |
| June 2017       | Participation in the training course on the ClimACT educational tools operation;   |                                     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |                                     |                                     |                                     |
| June 2017       | <a href="#">4<sup>th</sup> LCC meeting</a> : evaluation of the 1 <sup>st</sup> year; preparation of 2 <sup>nd</sup> year: global targets   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| June 2017       | Participation in the definition of global targets and development of action plans based on change of behaviour, supported by the developed educational tools, management solutions and high cost measures. | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     | <input checked="" type="checkbox"/> |
| Sept-17         | Participation in the Seminar on business models for ESCO.  | <input checked="" type="checkbox"/> |                                     |                                     |                                     |                                     |                                     |                                     |

ClimACT interaction with the schools



## ClimACT: timeline | 2017 (Sept - December)

| 2nd School year             | Actions   | Director                            | LC Coordinator                      | Other teachers                      | Students                            | Staff                               | Community                           | ClimACT team                        |
|-----------------------------|---|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| 1-9-2017<br>To 15-10-2017   | <a href="#">5th LCC meeting</a> – validation of action plans  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| 1-9-2017<br>To<br>30-8-2018 | Implementation of action plans. For high cost measures, business models will be proposed and ClimACT Resource-Matching Platform will be used to identify financing entities.<br>The five steps for ensuring effective implementation of the action plan will include:<br>- Create a communication plan<br>- Raise awareness<br>- Capacity building<br>- Motivation<br>- Track and monitor | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| October<br>to<br>April 2017 | Participation on Awareness campaigns with presentation of ClimACT gamification approaches.  |                                     |                                     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |                                     | <input checked="" type="checkbox"/> |
|                             | Participation in the challenges proposed by the ClimACT project and LCB.  |                                     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |                                     | <input checked="" type="checkbox"/> |

ClimACT interaction with the schools



## ClimACT: timeline | 2018 (January - August)

| 2nd School year            | Actions  | Director | LC Coordinator | Other teachers | Students | Staff | Community | ClimACT team |
|----------------------------|--|----------|----------------|----------------|----------|-------|-----------|--------------|
| Sept 2017 to August 2018   | Implementation of action plans.  | ✓        | ✓              | ✓              | ✓        | ✓     | ✓         | ✓            |
| October 2017 to April 2018 | Participation on Awareness campaigns with presentation of ClimACT gamification approaches.                 |          | ✓              | ✓              | ✓        |       |           | ✓            |
|                            | Participation in the challenges proposed by the ClimACT project and LCB.                                   |          | ✓              | ✓              | ✓        |       |           | ✓            |
| January 2018               | Workshop for teachers on gamification approaches (in Eco-Schools National Seminar*)                        |          | ✓              | ✓              |          |       |           |              |
| January 2018               | 6th LC Committee meeting - monitorization of Action Plans; preparation of awareness campaigns for parents. |          | ✓              | ✓              |          |       |           |              |
| January 2018 to May 2018   | Awareness campaigns for parents.   |          | ✓              | ✓              | ✓        |       |           |              |
| May 2018                   | 7th LC Committee Meeting - evaluation  | ✓        | ✓              | ✓              | ✓        | ✓     | ✓         | ✓            |
| June 2018 or Sep 2018      | Meeting with other schools. Award ceremony (challenges winners)  | ✓        | ✓              | ✓              | ✓        |       |           | ✓            |

\* in Portugal



ClimACT interaction with the schools

## ClimACT: timeline | 2019 (Sept - March)

| 3rd School year        | Actions   | Director | LC Coordinator | Other teachers | Students | Staff | Community | ClimACT team |
|------------------------|---|----------|----------------|----------------|----------|-------|-----------|--------------|
| 1/9/2018 to 31/08/2019 | Participation in the progress evaluation: Application of the behaviour questionnaire to be answered by students/teachers/staff/parents, by the LCB. The questionnaire will be developed by ClimACT team, adapted and validated by the LCC and implemented | ✓        | ✓              | ✓              | ✓        | ✓     | ✓         | ✓            |
|                        | Participation in the progress evaluation: Support the energy, water, waste, air, green procurement and green spaces technical audits. Work based on measurements on the schools to be performed by the ClimACT team with the support of the LCB;          | ✓        | ✓              | ✓              | ✓        | ✓     | ✓         | ✓            |



ClimACT interaction with the schools



## Timeline: Low Carbon Committee

| Back to global timeline | Meetings                                    | Agenda   |
|-------------------------|---|--|
|                         | 1 <sup>st</sup> LCC meeting <sup>1</sup>    | Presentation of: LCC members; ClimACT project, and the work for the year.<br>Definition of the strategy to involve the entire school community and implement the questionnaire.<br>Validation of the behavior questionnaire (until 15 November).   |
|                         | 2 <sup>nd</sup> LCC meeting<br>January 2017 | Discussion of results of behavior questionnaire; proposal of behavior actions.<br>Definition of the strategy to communicate the questionnaire results and actions to the school community. Selection and prioritization of awareness behavior actions.<br>Approve an Eco-Code for a LCE (principles to be followed by school members). |
|                         | 3 <sup>rd</sup> LCC meeting<br>April 2017   | Monitor and evaluate behavior actions<br>Community Action Day planning   |
|                         | 4 <sup>th</sup> LCC meeting<br>June 2017    | Evaluation of the 1 <sup>st</sup> year; preparation of 2 <sup>nd</sup> year<br>Participation in the definition of global targets and development of Action Plans   |
|                         | 5 <sup>th</sup> LCC meeting<br>October 2018 | Validation of Action Plans to be implemented during the 2 <sup>nd</sup> school year<br>Definition of the strategy to involve the entire school community   |
|                         | 6 <sup>th</sup> LCC meeting<br>January 2018 | Monitoring of Action Plans.<br>Preparation of awareness campaigns for parents.   |
|                         | 7 <sup>th</sup> LCC meeting<br>May 2018     | Evaluation of the 2 <sup>nd</sup> year   |

<sup>1</sup> Invitation for the 1<sup>st</sup> meeting of all the members of LC Committee

including the students that will participate in the Low Carbon Brigades; ClimACT interaction with the schools



## ClimACT: outputs | schools



- Methodology for auditing.
- Methodology conducting to a LCE in schools.
- Detailed report on the schools performance in energy, water, waste, air, green procurement and green spaces.
- Benchmarking.
- Implementation of measures that will improve the environment performance, decrease costs and motivate of the school community.
- Networking with other schools.
- Access to financing schemes.



ClimACT interaction with the schools

## ClimACT: outputs | teachers



- |   |
|---|
| • Access to accredited training in sustainable development and LCE.                                   |
| • Access to new educational tools and materials linked to the curriculum.                             |
| • Physical and digital resources to be used in active learning process                                |
| • Networking with pilot-schools from Portugal, Spain, France and Gibraltar.                           |
| • Access to new educational methodologies that will highly motivate students.                         |
| • Contribute to promote the transition to a LCE in schools.   |
| • Recognition with certificate of the participation in ClimACT   Interreg Sudoe international project |



ClimACT interaction with the schools

## ClimACT: outputs | students



- |   |
|---|
| • Empowerment of students to take informed decisions and actions on real life sustainability issues.                                |
| • Encouragement of students to work together actively and involving their communities in collaborative solutions.                   |
| • Development of critical thinking.   |
| • Development of applied multi-disciplinary skills (sciences, mathematics, arts, languages, etc).                                   |
| • Creation or development of a sense of commitment (with LCE policy) and responsibility (to implement the LCE action plans);        |
| • Access to educational tools based on fun, action-oriented and socially responsible learning.                                      |
| • Potentiate the students' leadership and capacity to change behaviours in their one family and friends networks and in the future  |
| • Promotion of a networking with students from pilot-schools from Portugal, Spain, France and Gibraltar.                            |
| • Access to participate in challenges and be awarded  |
| • Recognition with certificate of the participation in ClimACT   Interreg Sudoe international project (Low Carbon Brigade elements) |
| • Engagement of the youth of today to protect the climate in the future.  |



ClimACT interaction with the schools



## ClimACT Team | contact

*In each country one (or more?)  
focal person/ institution  
to contact with the schools*

## Presentation of the ClimACT project to E.B. 2, 3 Maria Veleda pilot-school in Loures

ABAE organized a meeting with the representatives of the E.B. 2, 3 Maria Veleda Pilot-School to present the ClimACT project. This meeting took place on November 7<sup>th</sup>, 2016 at the premises of the pilot-school. This meeting was attended by 4 people (Table 8) who held an open discussion on the ClimACT project, the role of the partners and the pilot-schools throughout the project time frame.

Table 16 - List of participants in E.B 2,3 Maria Veleda' Meeting

| Full Name         | Affiliation           |
|-------------------|-----------------------|
| Margarida Gomes   | ABAE                  |
| Giovani Giorgetti | ABAE                  |
| Inês Correia      | E.B. 2,3 Maria Veleda |
| Irene Louro       | E.B. 2,3 Maria Veleda |

### Agenda of the meeting with E.B. 2, 3 Maria Veleda pilot-school

| Time        | ClimACT - Stakeholder Meeting Session   | Participants                         |
|-------------|---|--------------------------------------|
| 10h30 – 11h | ClimACT project: initial explanation, general objectives, scope and expectations. | Margarida Gomes<br>Giovani Giorgetti |
| 11h – 12h   | ClimACT project: structure, tasks, dates and work-phases.                         | Margarida Gomes<br>Giovani Giorgetti |
| 12h – 13h   | Debate and answers to any doubts.   | All                                  |

### Minute of the meeting with E.B. 2, 3 Maria Veleda pilot-school

Margarida Gomes, member of ABAE, started with a brief welcome remark to the participants, presenting her and acknowledged the participants to be there.

Margarida Gomes started the session with a brief explanation of the project, defining the main objectives, the structure of the project, methodology tools which are going to be needed and what relation is expected between the research team of the university and each educational centre for the correct development of the project. Margarida also presented the structure of the project, detailing the delivery dates and content of each phase. In addition, the surveys required to be completed by the educational community were explained and the foreseen schedule of the visits to carry out pre-audits in all pilot centres was shown.

Finally, a time of debate was opened about different contributions of the attendees and the doubts that arose, as well as checking at the end the availability of each centre to receive members of the ClimACT team to carry out pre-audits.

### Conclusions

The meeting served as a starting point to explain the ClimACT project and organize tasks with all the pilot-school. The main objective of the ClimACT project was shown, to promote the transition to a Low Carbon Economy in schools through the experience of the teaching community, researchers and management administrations.

### ***AOB during the meeting with E.B. 2, 3 Maria Veleda Pilot-School***

During the session, one picture was taken and it is presented here.





|                          |  |   |
|--------------------------|--|---|
| VITOR<br>MONTEIGAS       | EST/EST/IST  | VITOR MONTEIGAS @ESPOL-IPLE.PT<br>964019018 |
| Ana Cristina<br>Teixeira | Gen. Humberto<br>Delgado                               | ghd-cavateira@gmail.com<br>917426960        |
| Inês Ferreira<br>Correia | Escola Básica<br>Maeia Velada                          | inesfc@netcabo.pt<br>962392533              |
| Guilherme<br>Lopes       | Escola E.B. 1<br>P.O. VILHARSA<br>(Escola de Montebom) | Guilherme.Lopes@gmail.com<br>96233839       |
| Ana Santos               | Escola E.B. 1<br>Prior Velho<br>(E.S. S. Lourenço)     | ANANHAQUE.SANTOS@EMV.COM<br>914578509       |
| P. P. P.                 | CM Loures  | P. P. P. @CM-Loures.PT<br>21 115 1190       |
| Ana Rita                 | CM Loures<br>D. Ambiente                               | ana_risota@cm-loures.pt<br>21 115 1190      |
| Helena Bernardes         | C. N. Loures<br>D.A/ SESA                              | helenabernardes@cm-loures.pt<br>ext. 405023 |
| M. Almeida               | C. N. Loures<br>D.A/ SESA                              | maria_figueiras@cm-loures.pt<br>ext. 405023 |
| Ducktor                  | Escola Básica<br>H. Delgado                            | montealec_ano1@gmail.com                    |
|                          |  |   |
|                          |  |   |
|                          |  |   |
|                          |  |   |



Figure 39 - Attendance List assigned (Loures second Meeting)

## Agenda of the second meeting in Loures

| ClimACT - Stakeholder Meeting in Loures |   |   |
|---|---|---|
| Time                                    | Session                                     | Participants  |
| 14:00 - 14:30                           | Registration and delivery of documentation. | Margarida Gomes<br>Marta Almeida<br>Pedro Amorim<br>Ana Gaiolas |

|               |   |  |
|---------------|---|--|
| 14:30 - 15:30 | ClimACT project: explanation, general objectives, scope and expectations. | Margarida Gomes<br>Marta Almeida                       |
| 15:30 - 17:30 | ClimACT project: structure, tasks, dates and work-phases.                 | Margarida Gomes<br>Marta Almeida<br>Giovanni Giorgetti |
| 17:30 - 18:00 | Debate and answers to any doubts.   | All  |

## ***Minute of the second meeting in Loures***

### **Welcome and opening**

The session began with the registration and delivery of the documentation to all participants who attended representing to each educational centre or other institutions.

### **Overview of the discussion**

The session was scheduled for 2:30 p.m. and a tolerance time was given for the arrival of all participants, starting at 3:00 p.m. with the presence of 21 people from all schools in the district of Lisbon, except for EB 2,3 Mario Sá Carneiro, who for professional reasons could not be present, as presented on the attendance sheet.

After the welcome given by the Municipality of Loures, Eng. Marta Almeida, coordinator of the ClimACT project, requested the individual presentation of each participant. Each school was represented by the coordinating teacher or by representatives of the school management.

Marta Almeida presented the project from its inception, as new teachers were integrated into the project, as is the case of José Cardoso Pires Secondary School, since there was a change / exit of teachers from some ClimACT schools. Since the placement of teachers may vary, the Commitment Statement that was signed by the School Board at the beginning of the 2016/2017 school year is valid until the end of the project to ensure continuation of the schools throughout the project.

Marta Almeida highlighted the motivations for the constitution of the project, namely the lack of knowledge about the environmental and energy performance of schools; budgetary constraints; lack of information on financial support mechanisms; and enormous potential in the formation and sensitization of the school community.

The various work packages, the working methodology, the modules and the expected results were presented. Teachers got to know some of the results of school audits in 2016/2017, such as the presence of CO2 and particles above the recommended values in almost all schools.

Margarida Gomes (MG), pedagogical director of the ABAE, presented a summary of the activities developed by the schools in the previous school year. Regarding the Low Carbon Commissions, organized by each school, the numbers of the people involved were presented, highlighting more than one hundred students involved and about fifty representatives of community entities. It was also highlighted the high number of responses to the behavioral questionnaire, totaling 2210 (two thousand two hundred and ten) surveys. MG reported that this same



questionnaire will be available for schools to respond in 2017/2018 because it is important to analyze the evolution of behaviors over the three years of the project.

Subsequently, the communication materials to be used by the schools in all activities developed under the Interreg Sudoeste ClimACT project were presented.

MG presented one or more of the activities developed by each of the Portuguese schools in the previous school year, namely the construction of solar furnaces, environmental awareness actions, construction of solar cars from kits provided by ABAE, tree planting and garden maintenance and pedagogical gardens, the Climate Code, the analysis of the results of the behavioral questionnaires, the student brigades, among others. All these activities were planned and organized by schools through defined-purpose activity plans, assessment tools, necessary resources, etc.

Professor Inês Correia presented the work developed at the Maria Veleza School, which organized 4 brigades / groups of students that sensitized their younger colleagues to good environmental practices in the following areas: waste, energy, food and water. Professor Vítor Manteigas presented some of the initiatives that take place at the Higher School of Health Technology in Lisbon, such as the show of environmental documentaries and films during class hours, which were sessions open to the whole community.

MG also presented the new challenges for the 2017/2018 academic year, such as the teacher training course that will take place in this school year in e-learning or b-learning format, in case teachers wish to obtain the credits of this credited training. This course is open to all interested teachers from ClimACT schools in Portugal, Spain, France and Gibraltar.

Some of the proposals for Hands-On activities were also presented, which teachers will receive in the Teacher's Manual ClimACT. The schools will also have available ClimACT games within the scope of the gamification module, namely the Quiz ClimACT, the board game "Zero Carbon", a webapp to calculate the carbon footprint, Serpente Papa-Leguas, among others. The webapp will be available this school year for computer and mobile devices.

Lastly, MG presented the schedule for the 2017/2018 school year, especially the meetings of the Baixo Carbono Commissions, awareness raising actions for the parents of the students, online and face-to-face training for teachers, participation in the new behavioral questionnaire to students, teachers and other staff, as well as the preparation of activity plans and participation in ClimACT challenges / contests and sessions.

In the end, the organization thanked everyone for their presence and the meeting was adjourned at 6:00 p.m., with no further business to discuss.

## **Conclusions**

The meeting served to explain the tasks for the present school year on ClimACT project and to understand the main difficulties that the Low Carbon Coordinators had in the first school year of the ClimACT project.

The participating institutions and schools received information about goals, necessary requirements, deadlines and phases of action to be able to inform their teaching community of their own schools.

### ***AOB during the first meeting in Loures***

During the session, pictures were taken in all different moments of the event, from the registration of attendees, the session explanation and some others of groups of attendees.

### ***Pictures of the Session***



**Figure X - Participants in Stakeholders Meeting in Loures**



Participants in Stakeholders Meeting in Loures



Participants in Stakeholders Meeting in Loures

## Portugal: National Stakeholder Meeting in Portugal

### 5.2.1. IST and ISQ “Descarbonização da Economia” organized meeting

IST and ISQ organized a stakeholder meeting in Portuguese Energy Day – 29<sup>th</sup> May 2017. ClimACT and MOEBBIUS projects get together and organized this meeting, where several institutions, researcher experts and national authorities had participated. This event aimed to present European projects – ClimACT and MOEBBIUS – and to announce the latest developments without framing, implementation and study of low carbon actions in buildings.

The agenda of the meeting is presented in [Figure 28](#).

| PROGRAMA        |  |
|-----------------|--|
| 09:00h          | RECEÇÃO DOS PARTICIPANTES  |
| 09:30h   10:00h | SESSÃO DE ABERTURA<br>Conselho da CNA (Associação Nacional das Indústrias)<br>Afonso Almeida   Presidente do Conselho da CNA<br>Miguel Mendes   Presidente do Conselho da CNA<br>Miguel Mendes   Presidente do Conselho da CNA |
| 10:00h   10:30h | ENQUADRAMENTO EUROPEU E NACIONAL<br>Programa de Investimento Europeu (PIE)<br>Programa de Investimento Europeu (PIE)<br>Programa de Investimento Europeu (PIE)   |
| 10:30h   11:00h | GOVERNANÇA<br>Programa de Investimento Europeu (PIE)<br>Programa de Investimento Europeu (PIE)   |
| 11:00h   11:30h | PROJETOS DE I&D<br>Programa de Investimento Europeu (PIE)<br>Programa de Investimento Europeu (PIE)  |
| 11:30h   12:00h | IMPLEMENTAÇÃO CASE STUDIES<br>Programa de Investimento Europeu (PIE)<br>Programa de Investimento Europeu (PIE)   |
| 12:00h   12:30h | MERCADOS DE FINANCIAMENTO<br>Programa de Investimento Europeu (PIE)<br>Programa de Investimento Europeu (PIE)  |
| 12:30h          | SESSÃO DE ENCERRAMENTO<br>Conselho da CNA (Associação Nacional das Indústrias)   |

Figure 40 - Agenda of the "Descarbonização da Economia"

The invited speakers were selected according to their expertise in air quality, energy efficiency, sustainability, research and financing programs.

The event was attended by more than 60 participants and more than 10 news were published by the social media. The list of participants is presented in [Figure 29](#).

Dictionnaire des Français II. Noms D'Action pour l'Étude

Amphibien, p. 8.

End time 12:30

### Career Potential

CONDUCT

☐ **U=256**[illegible][illegible]

170400



## ***AOB during the National Stakeholders Meeting in Portugal***

During the session two pictures were taken and are presented here.

Picture of the Session



**Figure 42 - Marta Almeida and Ricardo Rato from IST and ISQ, respectively.**




**Figure 43 - Stakeholders Meeting' Audience.**



## Presentation and discussion of the ClimACT application software

ABAE organized a meeting with IST and Mobinteg in Lisbon, Portugal in 19<sup>th</sup> February 2018 and account with 8 participants.

The list of participants is presented in Figure 29.



EUROPEAN REGIONAL DEVELOPMENT FUND


### Reunião do Projeto ClimACT Interreg SUDOE

**Assunto:** Aplicação móvel (App) ClimACT - Gamificação

19 de fevereiro de 2018, 12h00-14h00, ABAE  
Lisboa, Portugal

#### Lista de Presenças

| Nome                   | Entidade | Contacto                        |
|------------------------|----------|---------------------------------|
| MARGARIDA GOMES        | ABAE     | margaridagomes@abae.pt          |
| GIOVANNI GIORGETTI     | ABAE     | giorgetti@sapo.pt               |
| TANIA VICENTE          | ABAE     | tania.vicente@abae.pt           |
| MARTA ALMEIDA          | IST      | Smart@ctn.tecnico.lisboa.pt     |
| VÍTOR MATEIAS          | IST      | vitor.mateias@ESPOL.IPL.PT      |
| JORDA LAGE             | IST      | jordalage@cn.tecnico.ulisboa.pt |
| MARTA BOTELHO DE SOUSA | mobinteg | mbotelhof@mobinteg.com          |
| Fernando Pinto         | mobinteg | f.pinto@mobinteg.com            |
|                        |          |                                 |
|                        |          |                                 |



interreg Sudoeste

O Programa Interreg Sudoeste está cofinanciado pelo Fundo Europeu de Desenvolvimento Regional (FEDER)

Figure 29 – Attendance List assigned

### **Minute of the meeting**

The scheduled meeting timetable was from 12:00 to 14:00. Participants arrived and at 12:00 with the arrival of the last participant, the photos of the event were taken by Giovanni Giorgetti and the meeting begun.

ABAE's team gave his welcome to all participants and started the meeting discussing the characteristics of the App. Mobinteg presented the design of the App and IST gave their opinion about the functionalities needed to apply this tool in secondary schools and universities. It was decided that IST, ABAE and ISQ will work together on defining the forms to be used by Mobinteg in the development of the application for Android and iOS.

Mobinteg is the company that is developing the mobile computing application for the ClimACT project, already with vast experience in this area.

### **AOB during meeting**

During the session, were taken some pictures by Giovanni Giorgetti.

#### **Picture of the Session**



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## **Annex 4: Spain**

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