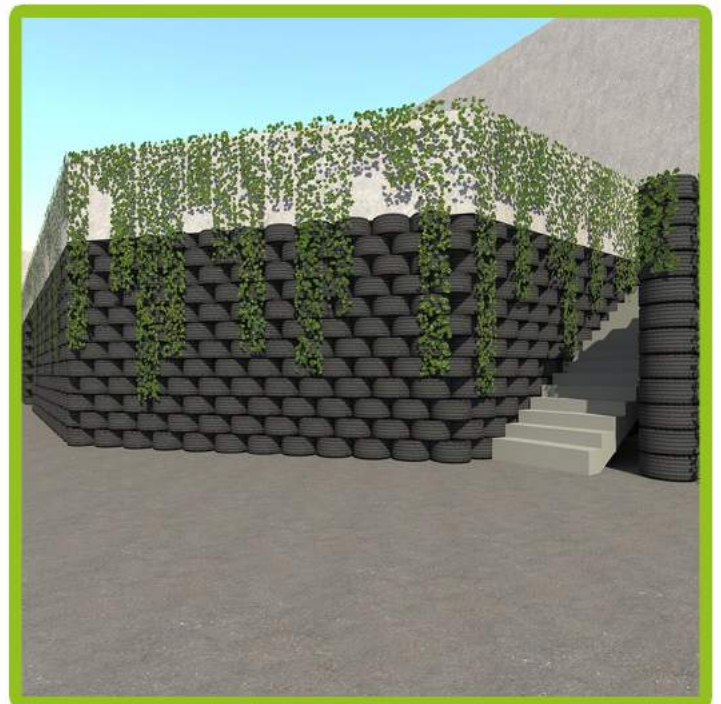


# Collaborative Innovation Lab (CIL)

**The Future Classroom at the first ecological building of the region.**

The **Collaborative Innovation Lab** stands out completely from the traditional constructions and makes a difference since it combines principles such as sustainability, environmental education and the development of media literacy skills.







First Stage

## National Contest "Climate Change" of the Clima@EduMedia project

**Colégio das Terras de Santa Maria** was the great winner of the category "Mitigation" in the national competition "Climate Change", brought by the **Clima@EduMedia** project. **escolaglobal@ Getting Greener (eGG)** was developed by students over twelve years old.

The competition aimed to get students and teachers to reflect on the importance of adaptation and mitigation to climate change, challenging them to think about specific measures to implement in their school and also to produce media content about the subject.

The school received a monetary award of 30.000 euros which was intended to implement its proposal: **the construction of a "green" and ecological building.**

**Clima**   
**EduMedia**

**Climate@EduMedia** is a project developed by the Faculty of Arts – University of Porto under the "AdaPT - Adapting Portugal to Climate Change" program, managed by the Portuguese Environment Agency, IP.



85% co-financed by the **EEA Grants** and 15% by **Portuguese Carbon Fund.**



## Second Stage

# Construction of the first ecological building of the region

This new area stands out completely from the traditional constructions and makes a difference since it combines principles such as **sustainability**, **environmental education** and the development of **media literacy skills**. Its location is strategic since it is implanted in the school centre, between the two buildings and the school playground. So, its presence is constantly noticed.

The construction is based on the **reuse of materials** and was designed to promote sustainable resource management and reducing dependence on non-renewable energy.

The raw materials were selected with the principles of recycling, reuse and the use of squander and /or waste, such as used **tires and metal cans**.

The installation of a relevant **green roof and green forefront wall** in the building is a measure to reduce the impact of construction on the environment, promoting photosynthetic activity and improving air quality.

"**escolaglobal® Getting Greener**" was a change in the school paradigm that aims to affect the entire local community.







## Third Stage

# Collaborative Innovation Lab (CIL)

As already explained, the **Collaborative Innovation Lab (CIL)** is different from traditional constructions as far as the climate change paradigm is concerned, making it a “green” building. The CIL will be the icon that marks the change to a greener school and the adaptation to the new educational requirements.

The CIL is inspired by the concept of “Future Classroom” that was created in 2011 in the framework of the iTEC project with the aim of suggesting a new way of organizing space and, consequently, the practices within the classroom.

This new design of the dynamics of “teaching-learning” process arises from the

need to enrich students with the so-called **competencies of the 21st century**: non-linearity, multitasking, problem-solving ability, concept application to real life, asynchronous communication, use of technology for interaction and establishment of relationships.

We want to provide our students with these tools that will allow them to develop skills, especially in what implies the ability to do self-taught learning, producing content and working collaboratively.

For this, the division of the 200 square metres room into six areas of learning is planned: **interact, present, investigate, create, exchange and develop.**

## Fourth Stage

# Projection of the “Future Classroom” – The six learning zones

### Interact

The teacher can use **technology to enhance student participation** in traditional learning spaces. One challenge of the traditional classroom is getting all students actively involved; technology enables everyone to contribute.

### Present

The students will need a different set of tools and skills to present, deliver, and obtain feedback on their work. The presentation of the pupils' work adds a **communicative dimension** to their work.

### Exchange

Future classroom learning places give much importance to the **ability to collaborate with others**. The quality of collaboration is composed of ownership, shared responsibility and decision-making process within groups.

### Create

The future classroom allows the students to plan, design, and produce their own work—for example, a **multimedia production**. In this zone, interpretation, analysis, teamwork and evaluation are important parts of the creative process.

### Investigate

In the future classroom, students are encouraged to **discover for themselves**; they are given the opportunity to be active participants rather than passive listeners.

### Develop

The Develop zone is a space for **informal learning** and self-reflection. Students can carry out school work independently at their own pace, but they can also learn informally while concentrating on their own interests.

