

SCHOOL GARDEN, ANOTHER WAY TO LEARN



SPAIN STUDENTS AGED BETWEEN 14-16 YEARS OLD SCIENCE AND TECHNOLOGY LANGUAGE ARTS

THE SCHOOL

- IES Bertendona BHI in Bilbao
- The school is characterised by having its classes in the afternoon (between 14:00 and 18:00h)
- Since 1988 it has been co-educational, it is also characterised

The relationship of this school with the SALL project has been through a teacher of the school, responsible for designing a STEAM project

Beginner

Experienced

AHA MOMENTS

Shared by the teacher: "Students learn habits of sustainability, protection of the environment, recycling... and others put their technological skills into practice to design a real, tangible solution that can continue to improve."

By stakeholder: "The collaboration for the moment has been at the level of consultation on the recommendations for the maintenance of the garden and especially for the design of the composting plant."

By students: "The project favors our inquiry as students. Learning will have much more impact with the collaboration of local companies."

THE LIVING LAB PROJECT



THE PROBLEM(S)

Need to design and carry out maintenance of the School Garden as a practical learning classroom: To maintain the School Garden from one school year to the next; keep the soil of our growing tables nutrient-rich and automatic irrigation when the center is closed.



THE SOLUTION

- Building a compost bin and irrigation system based on the selection by consensus of the best designed project.
- Once built, a comparison will be made with similar solutions on the market.



THE PROTOTYPE

- Laboratory elements for the study of the earth
- Weather stations for the study of environmental conditions
- Technology Workshop: Construction of the compost bin and the irrigation system
- Design on paper and transfer to Sketchup or Tinkercad with measurements to scale for the sketch of the solutions proposed by the students.



THE COMMUNITY

- Local companies of urban gardens have been contacted
- Elicol, expert agent in garden works and ecological agriculture
- Urban Cooperative Garden of San Francisco



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