

PEPPER SMART GARDEN



SERBIA STUDENTS AGED FROM 15 TO 16 AGRICULTURE FOOD PRODUCTION ELECTRONICS

THE SCHOOL

- Zaječar Gymnasium
- A very active school with a lot of STEM activities
- A community centre for science related activities with a maker space and a science club

Familiarity with the open schooling approach before joining the SALL project

Beginner

Experienced

AHA MOMENTS

Shared by the teacher: "All 15 students that have participated in SALL signed up for the elective course Applied sciences. Which is great! Their interest in science rised and kept rising."

By stakeholder: "It is always a pleasure to work with young people and exit our everyday routine."

By students: "I liked this project because, above all, we socialised while realising it. [...] We tried our best to make something work and it paid off in the end."

THE LIVING LAB PROJECT



THE PROBLEM(S)

Eastern Serbia has been performing poorly in terms of food yield for years, with mostly grain and wheat planted. This living lab project wants to address this issue and develop solutions suitable for the region.



THE COMMUNITY

- Agricultural pharmacy contributed with fertilizers and pest control techniques
- The local Chilly club provided advices, plant pods and seeds
- Parents took care of the sprouts at home
- Local restaurants were offered the food production



THE SOLUTION

- Determine which crops could grow better in the region
- Create smart garden tools to monitor the crops
- Raise awareness of the production and consumption of local products within the community



THE PROTOTYPE

- A mini smart garden for growing chili peppers
- System of watering and tracking which includes Arduino controls



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