

SCHOOLS  
AS LIVING  
LABS

**SALL**

## **Schools as Living Labs**

**New way to approach science education programs by  
fostering collaboration between schools and local  
communities**

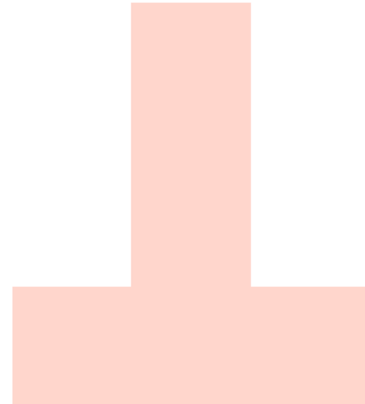
Jelena Joksimović, Center for the Promotion of Science, Serbia

October, 2022



# Principles of open laboratories

- A. Real problem - real solution
- B. Co-creation
- C. Prototyping



School  
community

CPN

## Who are the stakeholders in SALL in Serbia?

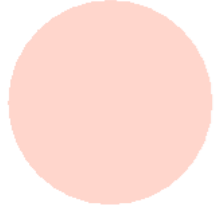
Local partners

Parents



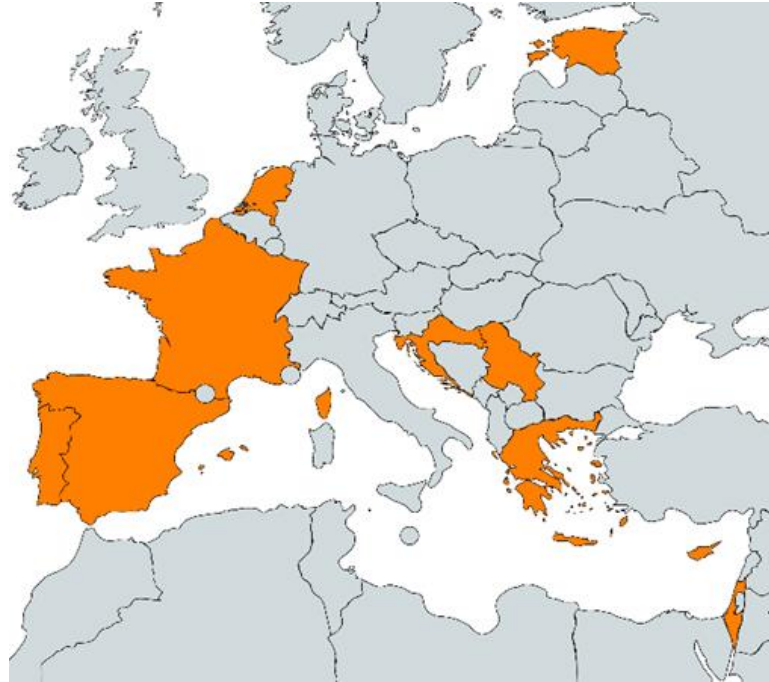
## What do we want to achieve

- students who are interested in science
- a school community that is ready to experiment
- a school that is in partnership with the local community
- to address a certain real problem related to the food system
- to cross STEAM disciplines and civic engagement
- to network with SALL schools in Europe

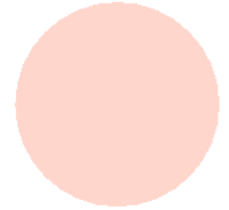


# SALL across Europe

Total number of  
schools involved:  
412

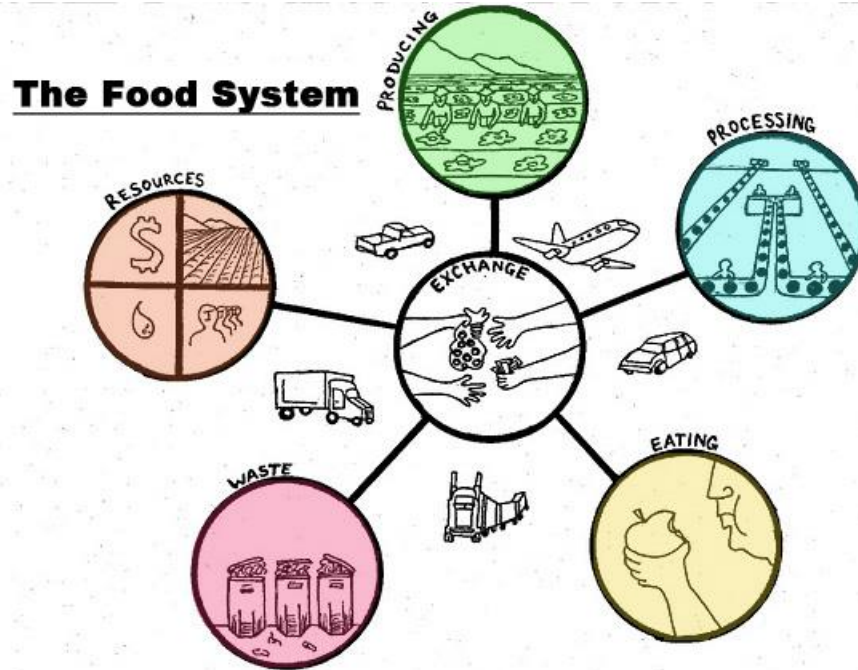


SALL 2021



|             | Country     | National coordinator                | Focus community -<br>no of schools | Wider<br>community -<br>no of schools | Total no of<br>schools: |
|-------------|-------------|-------------------------------------|------------------------------------|---------------------------------------|-------------------------|
| 1           | Cyprus      | UCY                                 | 5                                  | 55                                    | 60                      |
| 2           | Greece      | EA                                  | 6                                  | 55                                    | 61                      |
| 3           | France      | TRACES                              | 5                                  | 10                                    | 15                      |
| 4           | Israel      | ORT                                 | 5                                  | 55                                    | 60                      |
| 5           | Netherlands | NEMO                                | 5                                  | 55                                    | 60                      |
| 6           | Portugal    | CVIVA                               | 5                                  | 55                                    | 60                      |
| 7           | Spain       | UDEUSTO                             | 5                                  | 55                                    | 60                      |
| 8           | Estonia     | AHHAA (ECSITE's linked third party) | 2                                  | 10                                    | 12                      |
| 9           | Croatia     | BWI (ECSITE's linked third party)   | 2                                  | 10                                    | 12                      |
| 10          | Serbia      | CPN (ECSITE's linked third party)   | 2                                  | 10                                    | 12                      |
| <b>Suma</b> |             |                                     | 42                                 | 370                                   | 412                     |

# Thematic context of SALL



## Ways of learning in SALL

- "Engaging students in rich and open-ended challenges that require and support complex problem solving, application of multi-disciplinary knowledge and fosters the enactment of creative strategies. With teaching more readily considered to be a design profession" (Laurillard, 2012, p.621)
- Students lived experience in all spheres of living and learning is included with SALL methodology.
- "For many youth, learning science is as much about becoming a legitimate participant in the science learning community as it is about learning the content of science" (Barton et al. 2008, p.72).
- "The creation of context-based teaching methods and practices aligned to the needs of both society and the industrial sector, at the same time enhancing the capabilities of students." (Gabriele, et al, 2018, p.956)



## TurijaLab - focus community

OŠ “Veljko Dugošević” Turija



The problem:

- Adaptation of agricultural production in Kučevo to climate changes

Steps in the project:

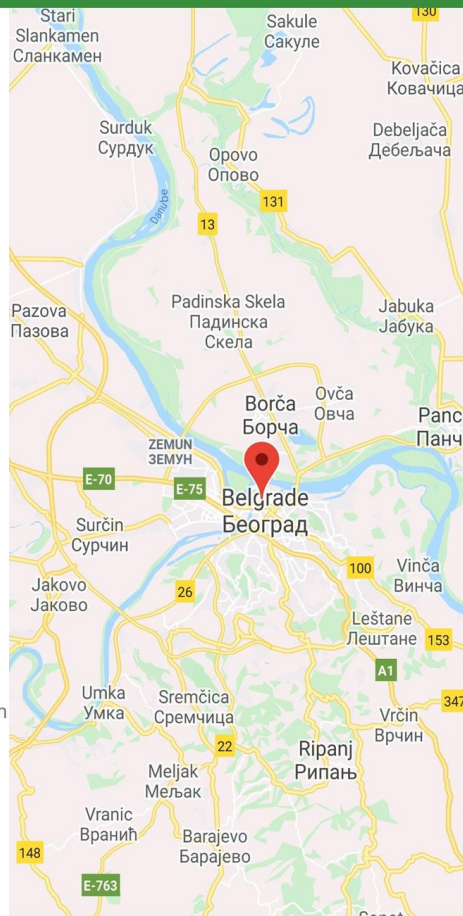
- Research
- Creation of the mobile app
- Promotion of the app in local community



## Moja bašta

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IZABERI LOKACIJU

## Izaberite biljku



Artičoka



Bamija



Blitva



Brokoli



Celer



Cvekla



Dinja

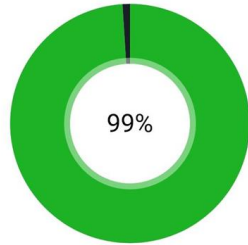


Grasak

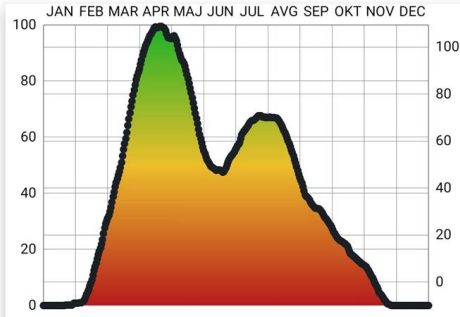


Preuzimanje i obrada meteoroloških podataka u toku...

## Uslovi sadnje za biljku cvekla

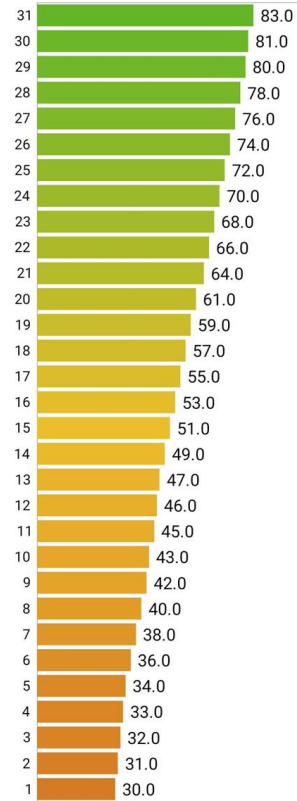


■ Najoptimalniji datum sadnje je oko 22.04



Januar

## Uslovi sadnje za biljku cvekla



## WonderLab - focus community

OŠ "Petar Kočić" Indija



The problem:

- Primarily: students' lack of knowledge about tea herbs (growing, processing and other procedures)
- Secondly: food waste in the local community

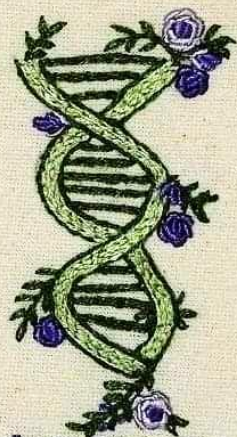
Steps in the project:

- Creation of compost site
- Creation of the joint calendar of planting and growing tea herbs
- Growing tea herbs
- Picking and drying tea herbs

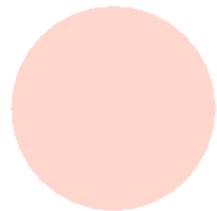




ЛИПА

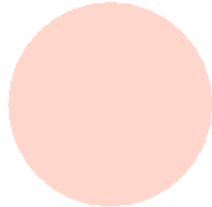


КОПРИВА





## Some results in Serbia

- 12 prototypes are developed
  - 12 communities dedicated to food system actions are strengthened
  - 12 Serbian schools became part of SALL network and an online platform
- 

**There are individual and collective learnings in SALL.**

**Personal meaning of the project topic, and clear relevance to one's life contributed to building science related identity among individual participants.**

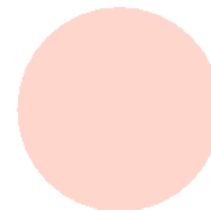
**For the community sense of agency and togetherness is supported with positive attitude towards science and a new, more relevant and flexible way of understanding food system.**







ЦЕНТАР  
ЗА  
ПРОМОЦИЈУ  
НАУКЕ



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