



LEARNING PROGRAM

"Achieving green living areas from buildings, to cities and territories"

## The 3 courses in a glance

Emilio Hernando IREC

Laia Vinyes MedCities

Maria Calderó - BETA





# Course 1

## Green living buildings

### OBJECTIVES:

1. Make the attendant capable to **evaluate the feasibility of coexistence of PV and BESS system** at building scale.
2. Provide skills to **analyse the energy behaviour** of existing buildings and the weight of the involved factors, as well as to be able to **prioritize the different intervention actions**.
3. Understand how to reduce the **energy consumption** of a building **down to nearly-Zero**.



# Course 1

## Green living buildings

### SCOPE OF THE CHALLENGE:

1. **Design of a PV plant coupled with a storage system**, starting from the analysis of the energy load, through the technical design and arriving to the economical indicators.
2. **Establish which energy efficiency interventions** could be executed to achieve the highest energy savings in a building with the available resources.
3. Perform an energy analysis, evaluate different renovation options and assess the economic feasibility of the interventions to **transform a school in a nearly-Zero Energy Building**.

### MAIN OUTCOMES:

- User-friendly assessment of the energy performance of buildings by **different tools and type of intervention**.
- First steps to **contribute to a sustainable community** through the intervention of public buildings.
- Possibility to continue the path with **wider intervention actions** for bigger groups of users.



# Course 2

## Green living cities

### OBJECTIVES

- Strengthen skills on planning and evaluating integrated cycling policies at city level.
- Identify the different dimensions of cycling mobility and key drivers of a successful implementation and propose concrete solutions.

### SCOPE OF THE CHALLENGE:

Become a cycling advisor and identify priority actions to upgrade the quality, safety, accessibility and experience of cycling in your street, neighbourhood or city !

### MAIN OUTCOMES

1. Launch session
2. E-lessons
3. Self-evaluation quiz
4. Forum Q&A
5. Team work assignment
6. Pitching session





# Course 3

## Green living territories






### OBJECTIVES

- To provide the participants with different circular tools and innovative solutions in the agri-food sector in order to achieve more sustainable economies (i.e. reduce CO<sub>2</sub> emissions along the value chain).
- To encourage reflective and critical thinking between participants and thought-provoking discussions with experts about the transition towards a greener production and consumption committed future.

### SCOPE OF THE CHALLENGE

How to make more sustainable diets in schools based on current discussions on the promotion of animal-based or plant-based products and link it with the new EU Green Deal strategies such as the Farm to Fork Strategy. Think about the persistence of both business models but suggest ways to implement them in a more sustainable way and think about realistic action plans to achieve these changes.

### MAIN OUTCOMES

1. Launch session 
2. 8 e-lessons & SI 
3. Quiz test 
4. Forum Q&A 
5. Team work assignment 
6. Pitching session 