



RE-ACT Schools

Interreg
Euro-MED



Co-funded by
the European Union

RE-ACT SCHOOLS

Transformation of Schoolyards to Combat Climate Change Effects
and Promote Healthy and Active Environments

June 26th 2025
Green Infrastructure Case Studies
Re-Natura Mataró project



RE-ACT Schools

Interreg
Euro-MED



Co-funded by
the European Union

RE-ACT SCHOOLS

Transformation of Schoolyards to Combat Climate Change Effects
and Promote Healthy and Active Environments

June 26th 2025
Green Infrastructure Case Studies
Re-Natura Mataró project



Municipality of Mataró #team



Martí Comas

Municipal Manager's
Office at Mataró City
Council.



Marisol Carrillo

Director of Public
Spaces and Facilities
Services.



Carla Blanch

Architect in the Project
and Works Service.

Re-Active Schools
Project Manager



Karen Martínez

Green Infrastructure
Technician



RE-ACT Schools

Interreg
Euro-MED



Co-funded by
the European Union



Ajuntament
de Mataró





Mataró #quick look



RE-ACT Schools

Interreg
Euro-MED



Co-funded by
the European Union



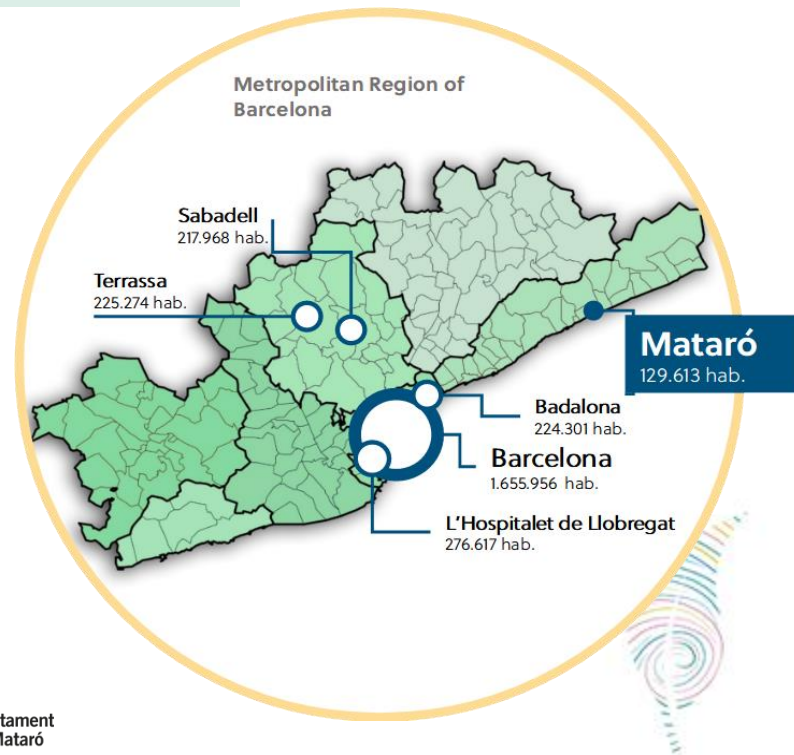
Ajuntament
de Mataró





Mataró #quick view

129.613 inhabitants
+4,4% last decade



RE-ACT Schools

Interreg
Euro-MED



Co-funded by
the European Union



Ajuntament
de Mataró



Mataró #quick view



RE-ACT Schools

Interreg
Euro-MED



Co-funded by
the European Union



Ajuntament
de Mataró





Mataró #city in transition



TecnoCampus Park



Angeleta Ferrer School



RE-ACT Schools

Interreg
Euro-MED



Co-funded by
the European Union



Ajuntament
de Mataró



Mataró #local strategy framework

Focusing on adaptation and resilience to climate change

The Renaturalisation of urban space is one of the 28 strategic projects of the Local Action Plan of the Urban Agenda of Mataró



Action Plan for Sustainable Energy and Climate (PAESC)



Master Plan for Mataró's Street Tree Canopy



Mataró Circular 2030 Strategy



Urban Planning update (in progress)



Re-Natura Project (in progress)

MATARÓ
Agenda Urbana **2030**



RE-ACT Schools



Co-funded by
the European Union



Ajuntament
de Mataró



Mataró #quick look



RE-ACT Schools

Interreg
Euro-MED



Co-funded by
the European Union



Ajuntament
de Mataró





Mataró #quick look



Lamine Yamal



RE-ACT Schools

Interreg
Euro-MED



Co-funded by
the European Union

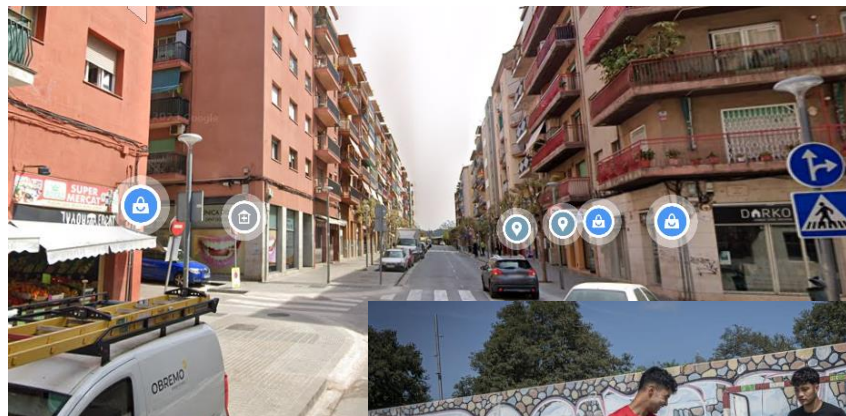


Ajuntament
de Mataró





Mataró #quick view



Rocafonda neighbourhood (08304)



RE-ACT Schools

Interreg
Euro-MED



Co-funded by
the European Union



Ajuntament
de Mataró



Mataró #working
together



RE-ACT Schools

Interreg
Euro-MED



Co-funded by
the European Union

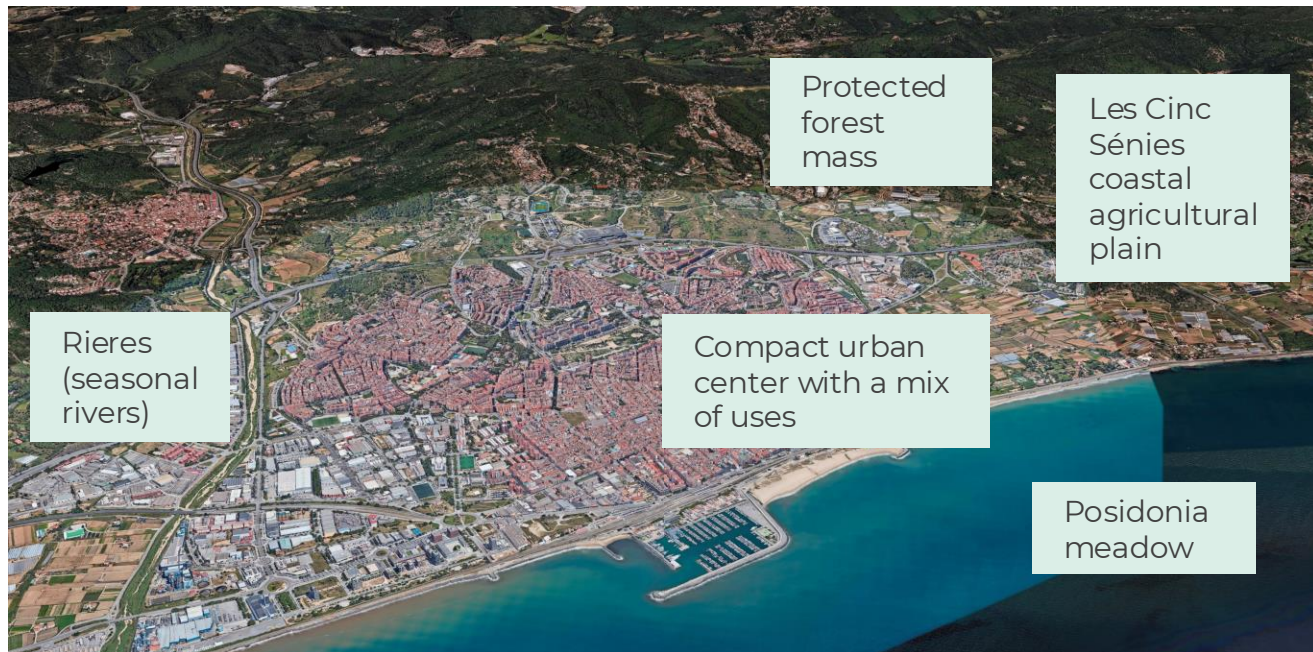


Ajuntament
de Mataró





Mataró #green infrastructure elements



RE-ACT Schools

Interreg
Euro-MED



Co-funded by
the European Union



Ajuntament
de Mataró



the project #objectives



GREEN INFRASTRUCTURE PROJECT FOR ENHANCING BIODIVERSITY AND PROMOTING ECOLOGICAL RESILIENCE IN MATARÓ



budget (VAT included)

6.089.891 €

65,67 % funded by EU

timeline

**01 / 07 / 2023 -
31 / 12 / 2025**



Urban renaturation, make cities greener and more nature-friendly



Boost biodiversity, protect and enhance urban ecosystems



Climate resilience, help cities adapt to climate change effects



Improve livability, create healthier, more pleasant spaces for people



Reduce flood risk, use green infrastructure to improve water flow



Connect green & blue spaces, link green areas with seasonal rivers and the sea



RE-ACT Schools



Co-funded by
the European Union



Ajuntament
de Mataró





the project #strategic actions



A // PDIVM

Strategic Green Infrastructure Plan for Mataró.



B // IMPLEMENTATIONS OF 6 SPECIFIC ACTIONS

Overall objective Contribute to the **renaturalization of Mataró**

Main strategy Enhance the **green infrastructure and connectivity**

Expected outcomes Improved **biodiversity**
Increased **climate resilience**
Enhance **urban livability**



C // 3 CROSS-CUTTING ACTIONS

Governance and Participation Plan
Communication and Awareness Plan
Measurement and Monitoring of Indicators



RE-ACT Schools



Co-funded by
the European Union



Ajuntament
de Mataró





the project #strategic actions

B1 Enhancing the ecological value of the Sant Simó Stream

budget
1.825.909 €

project area
19.021 m²



Eradication of invasive exotic plants



Enhancing native vegetation

Implementation of bioengineering solutions



RE-ACT Schools

Interreg
Euro-MED



Co-funded by
the European Union



Ajuntament
de Mataró





the project #strategic actions

B2 Argentona
Stream socio-
environmental
restorations

budget
908.333 €

project area
32.000 m²



Removing pavement to
improve soil permeability

Socio-environmental upgrading
of the streamside path

Water Quality improvement
Groundwater Recharge



RE-ACT Schools

Interreg
Euro-MED



Co-funded by
the European Union



Ajuntament
de Mataró





the project #strategic actions

B3 Enhancing biodiversity and resilience in Central Park and New CP

budget
534.957 €

project area
134.000 m²



- Trees provides shade - urban cooling - enhancement of ecological connectivity and biodiversity

Enhancing native vegetation



RE-ACT Schools

Interreg
Euro-MED



Co-funded by
the European Union



Ajuntament
de Mataró





the project #strategic actions

B4 Making
Pollancreda
Park greener

budget
627.000 €

project area
13.086 m²



Biodiversity swales
Supports pollinators and plants

Miyawaki forests
Fast, native, green



RE-ACT Schools

Interreg
Euro-MED



Co-funded by
the European Union



Ajuntament
de Mataró



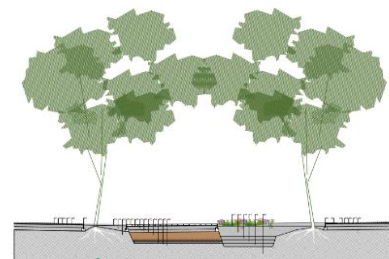


the project #strategic actions

B6 Adapting urban green spaces to climate challenges

budget
750.000 €

project area
65.350 m²



Enhance soil permeability and ecological connectivity



RE-ACT Schools

Interreg
Euro-MED



Co-funded by
the European Union



Ajuntament
de Mataró





the project #key factors



B5 TRANSFORMING SCHOOLYARDS INTO CLIMATE REFUGES AND BIODIVERSITY LEARNING SPACES



timeline

01/07/2023 - 31/12/2025



scope

31 schoolyards



budget

750.000 € (VAT included)



**PLANTING THE SEED:
A PROJECT TO INSPIRE MANY MORE**



RE-ACT Schools

Interreg
Euro-MED



Co-funded by
the European Union



Ajuntament
de Mataró





the project #methodology



RE-ACT Schools

Interreg
Euro-MED



Co-funded by
the European Union

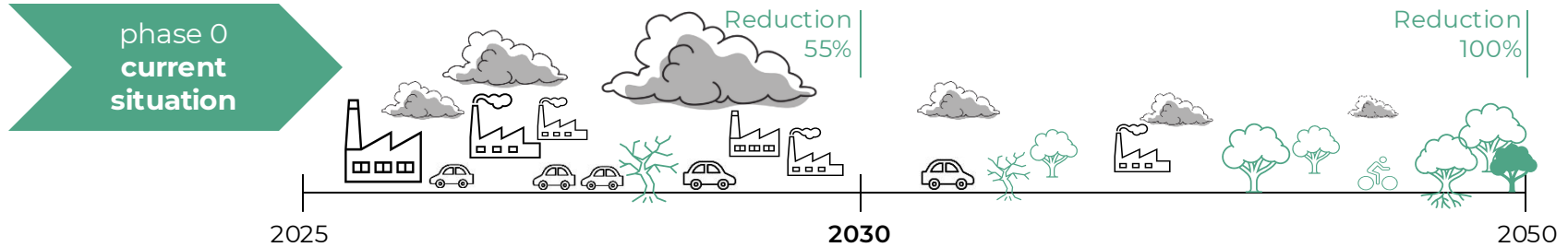


Ajuntament
de Mataró

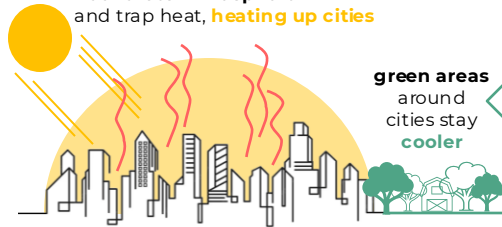




the project #where do we are?



urban heat island effect
building materials such as **concrete** and **asphalt** absorb and trap heat, **heating up cities**



green areas
around
cities stay
cooler



benefits of urban green infrastructure

- reduces risk of **cardiovascular disease** and **cancer**
- improves **mental health** and increases **life satisfaction**
- reduces **air** and **noise pollution**
- improves **memory** and **attention**
- promotes **physical activity**
- decreases the **urban heat island effect**



RE-ACT Schools

Interreg
Euro-MED



Co-funded by
the European Union



Ajuntament
de Mataró



the project #where do we are?

phase 0
current
situation



121.220 m²
schoolyards
surface
31 alveolus

=



155.600 m²
comparable to the
great lung of the city
Nou Central Park



8.270 users
de 0 a 11 years

6,41% of
population



156.569 m²
educational equipment surface



121.220 m² schoolyards surface
= 17 football pitches



44%



52.906 m²
schoolyard
surface **sunny**
all day

=



50% Mataró
beach
surface



RE-ACT Schools

Interreg
Euro-MED



Co-funded by
the European Union



Ajuntament
de Mataró



the project #what do we have?

phase 1
diagnosis

physical
environment
identification

number of trees or
shrubs

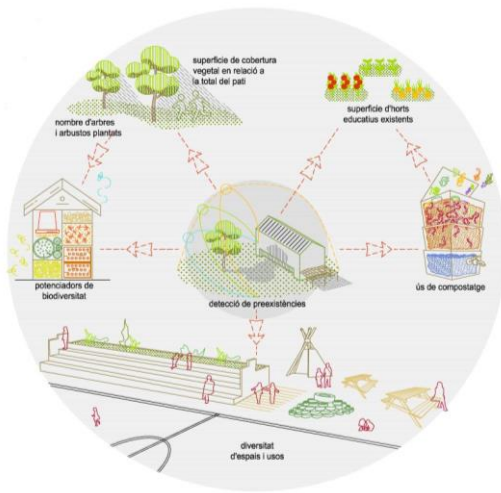
shaded surface area

composting use

biodiversity
enhancing elements

surface of school
vegetable gardens

ground
permeability



RE-ACT Schools

Interreg
Euro-MED



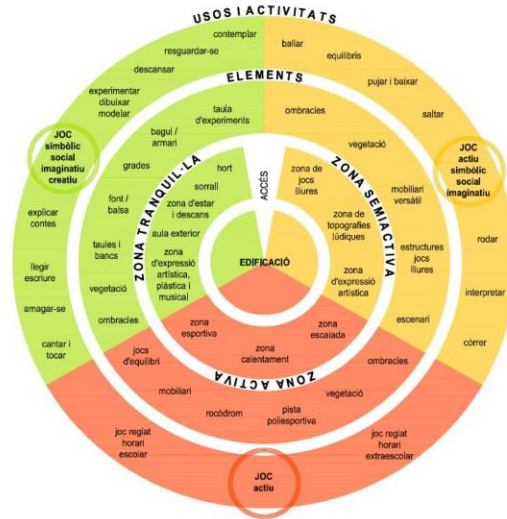
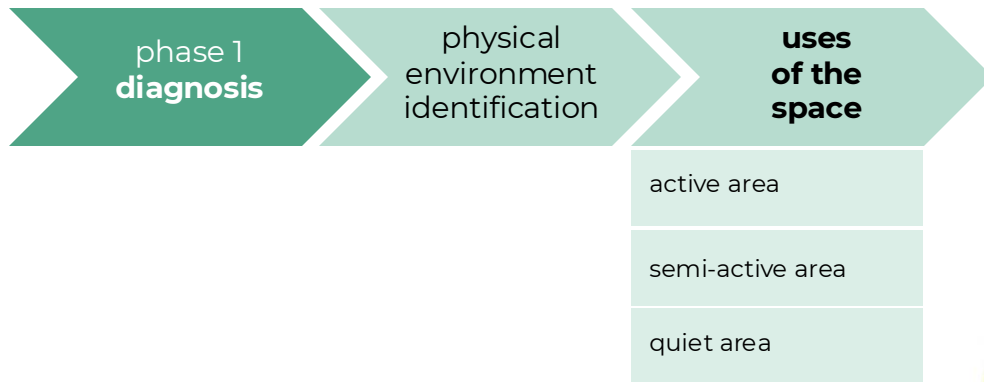
Co-funded by
the European Union



Ajuntament
de Mataró



the project #what do we have?



RE-ACT Schools



Co-funded by
the European Union

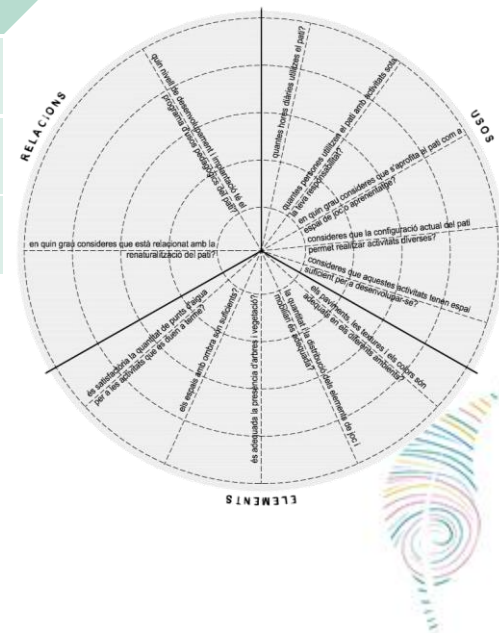
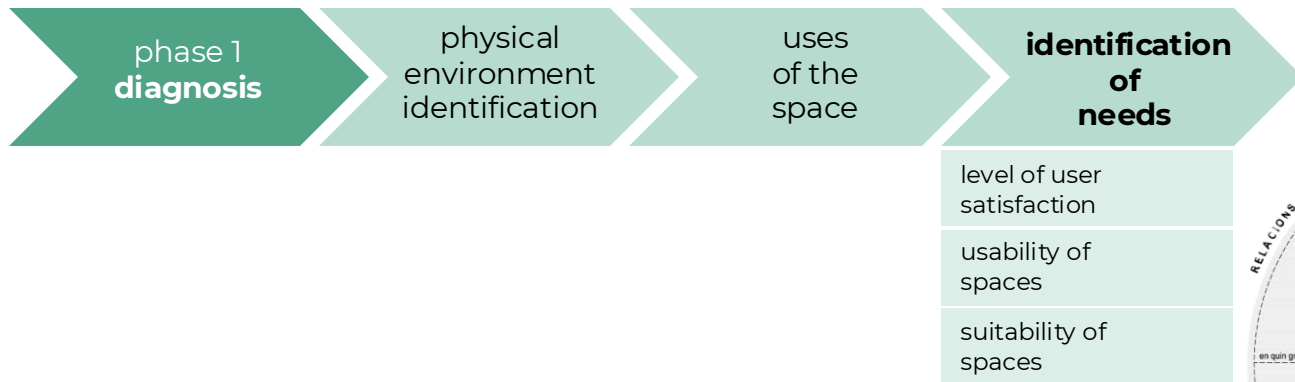


Ajuntament
de Mataró





the project #what do we have?



RE-ACT Schools



Co-funded by
the European Union



Ajuntament
de Mataró



the project #what do we have?

phase 1
diagnosis

physical
environment
identification

uses
of the
space

identification
of
needs

current state
of the 31
schoolyard



RE-ACT Schools

Interreg
Euro-MED



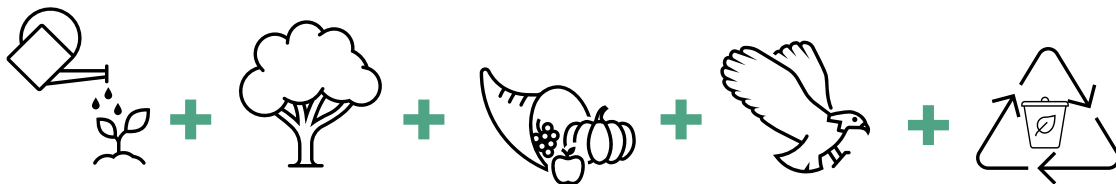
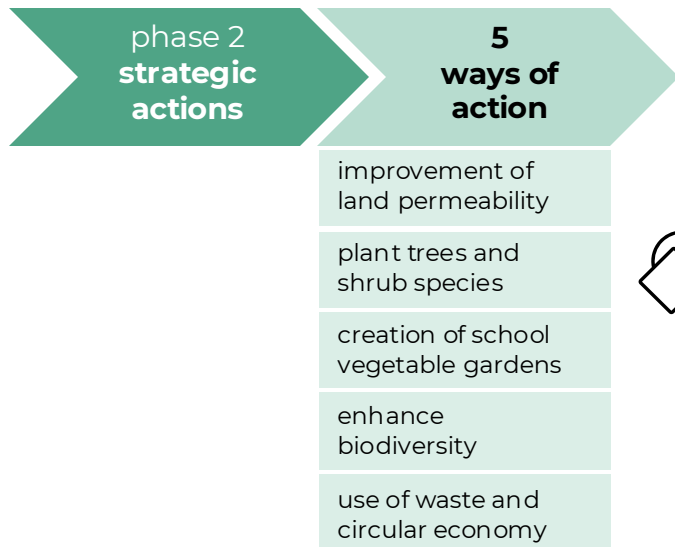
Co-funded by
the European Union



Ajuntament
de Mataró



the project #how should we act?



RE-ACT Schools

Interreg
Euro-MED



Co-funded by
the European Union



Ajuntament
de Mataró





the project #how should we act?

phase 2
**strategic
actions**

5
ways of
action

**catalogue
of
solutions**

develop each line
of action into
several options

combine lines of
action to enhance
results



examples



RE-ACT Schools

**Interreg
Euro-MED**



Co-funded by
the European Union



Ajuntament
de Mataró





the project #how should we act?

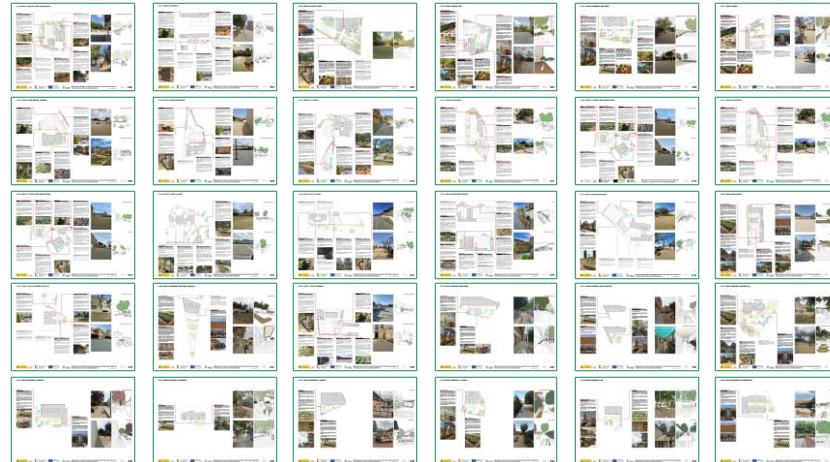
phase 2
strategic
actions

5
ways of
action

catalogue
of
solutions

masterplan
for each
schoolyard

opportunity
for the
future



RE-ACT Schools

Interreg
Euro-MED



Co-funded by
the European Union



Ajuntament
de Mataró





the project #where should we focus on?

phase 3
**pilot
actions**

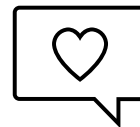
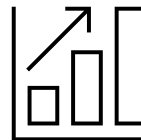
**merging
variables**

current state and
potential for
improvement

budget available

target indicators of
the grant

users' needs and
wants



RE-ACT Schools

Interreg
Euro-MED



Co-funded by
the European Union



Ajuntament
de Mataró





the project #where should we focus on?

phase 3
**pilot
actions**

merging
variables

**engaging
educational
community**

1st meeting // 11-2023
project goals and
objectives



2nd meeting // 12-2024
build consensus
around proposals



RE-ACT Schools

Interreg
Euro-MED



Co-funded by
the European Union



Ajuntament
de Mataró



the project #where should we focus on?



july 2023 – initial state



june 2025 – current state
execution process



november 2025 – expected result
example Mare Nostrum School, BCN



RE-ACT Schools



Co-funded by
the European Union



Ajuntament
de Mataró





the project #what will we have?

phase 4
expected
results

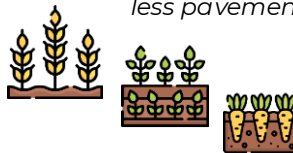
joint decision-making process

building consensus on interventions with the educational community



400 m² new school gardens

in raised tables or directly in the ground



4.210 m² new permeable surface

better drainage, less pavement



45 trees
from 8 species adapted to the climate of the future



boosting biodiversity

thanks to the combined impact of all actions



waste regeneration

use of composters linked to school gardens



883 shrubs
from 9 different species

to be continued ...



RE-ACT Schools

Interreg
Euro-MED



Co-funded by
the European Union



Ajuntament
de Mataró





**Thank you for your
attention!**



RE-ACT Schools

Interreg
Euro-MED



Co-funded by
the European Union

