



EUROPEAN UNION

# EU MISSIONS



**Concrete solutions for our greatest challenges**


**Valencian Region. Mission Adaptation**









Fostering the local climate policy at regional level

#EUmissions #HorizonEU



# Context



-  5,058,138 inhabitants
-  Area of 23,255 Km<sup>2</sup>
-  470 km of coastline
-  542 municipalities
-  649 natural spaces
-  Average temperatures have exceeded normal values by 0.5°C
-  Renewables sources represent 7% of total energy
-  Reduced inland rainfall and increased torrential rains



# Context

Our main impact/vulnerability: Increased water stress in a context of rising temperatures.





# Legal framework

## European Level:

- EU GREEN DEAL
- RePowerEU

## Spanish level:

- Law 7/2021 Climate Change and Ecological Transition
- National Plan for Adaptation to Climate Change (PNACC)
- Law 7/2022 on waste and contaminated soils for a circular economy

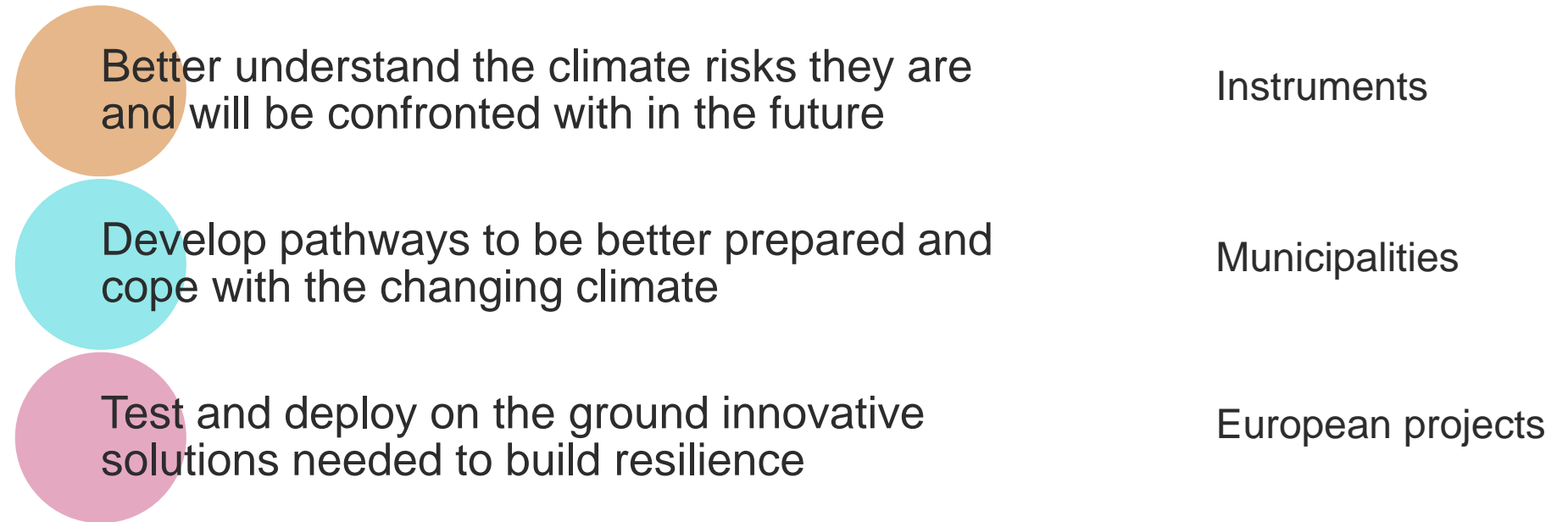
## Valencian Level:

- Climate Emergency Declaration
- Valencian Climate Change Strategy 2030
- Climate Change and Ecological Transition Law
- Integrated Valencian Energy and Climate Change Plan

- Coordinate with the rest of state, regional and local administrations, aligned with European guidelines to create a resilient environment taking into account the vulnerability of our territory.
- To value the role of forest resources and the rural territory as carbon sinks and to halt the loss of biodiversity, as well as fight against invasive species.
- Pay special attention to the role of water resources and the water cycle in adapting to climate change.

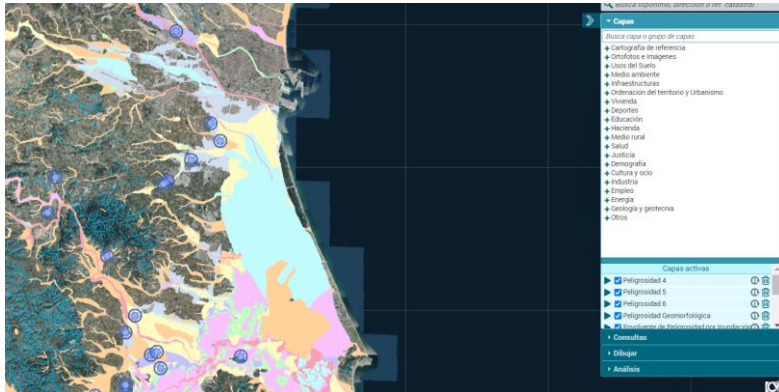


# EU Mission: Adaptation to Climate Change

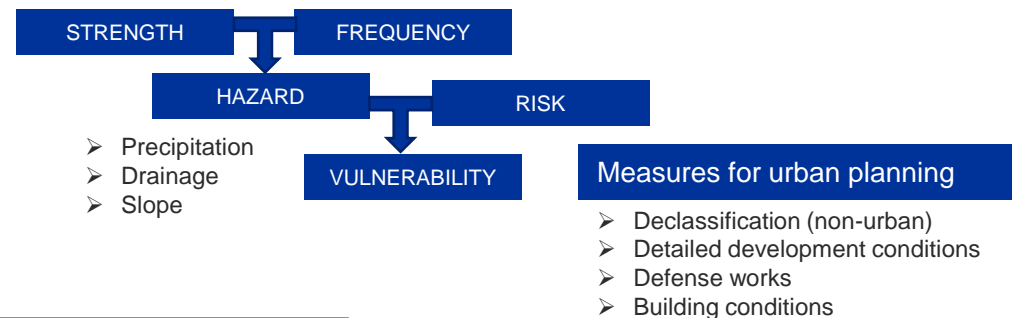




# Better understand the climate risks they are and will be confronted with in the future



## SECTORAL TERRITORIAL ACTION PLAN ON FLOOD RISK PREVENTION IN THE REGION OF VALENCIA



### Decrease in hazard

- Increase of the flood threshold
  - Plot elevation
  - Canalisations
  - Dikes and embankments
  - Urban storm drainage
- Decrease in magnitude/frequency throughout the catchment.
  - Reservoirs and laminate/laminate ponds
  - Hydrological-forestry restoration
  - Flow diversion and sacrifice areas
  - SUDS

### Decrease vulnerability and/or exposure

- Pre-flood:
  - Zoning of uses.
  - Adequacy of buildings and infrastructures.
  - Improvement of evacuation routes.
  - Insurance policy
- During the flood:
  - Emergency plans.
  - Forecasting and warning systems
- After the flood:
  - Insurance / subsidies.

Flood risk management plans





# Better understand the climate risks they are and will be confronted with in the future

## VIEWER FOR THE ADAPTATION OF THE VALENCIAN COAST TO CLIMATE CHANGE

At a technical level, the viewer is made up of three tabs where you can consult the estimates:

- Hazard (changing parameters in sea level height, waves, meteorological tide and surface temperature);
- Impacts on the coast (mainly flooding and erosion of the coastline);
- Natural and socioeconomic risks.

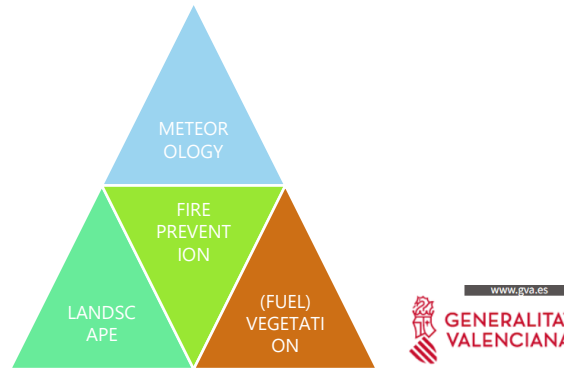


In this example you can see a forecast of the sea surface temperature for the period between 2026 - 2045. Its analysis allows characterizing the climatic conditions for different scales and different types of studies.



# Better understand the climate risks they are and will be confronted with in the future

## FIRE PREVENTION. MOSAIC STRATEGY



Sistema Integrado de Gestión de Incendios Forestales

Observatorio	Temp	H.R.	Lluvia	Vto. dir.	Vel.	Fecha
Alto del Pino	8	55			0	30/01/2023 18:00
Cabezo	6	62		↑	6	30/01/2023 18:00
Caroche	7	56		↑	5	30/01/2023 18:00
Castillico	7	50		→	16	30/01/2023 18:00
Creu del Gelat	5	52		↓	10	30/01/2023 18:00
Desert de les Palmes	7	63		↓	5	30/01/2023 18:00
El Gavilán	2	39			0	30/01/2023 18:00
El Salviar	5	75		↑	8	30/01/2023 18:00
Feliciano	8	51		↑	9	30/01/2023 18:00
Fredes	1	67		↑	30	30/01/2023 18:00
La Travina	9	34		↓	3	30/01/2023 18:00
Lloma Bernat	5	47		↓	2	30/01/2023 18:00
Miserat	8	52		↓	0	30/01/2023 18:00
Mondúver	7	61		↑	10	30/01/2023 18:00
Palmeral	12	51		↑	0	30/01/2023 18:00
Pico del Remedio	8	33		→	9	30/01/2023 18:00
Puntal Aljibe	7	50		→	3	30/01/2023 18:00
Reconco	6	54		→	6	30/01/2023 18:00
Santa Bárbara	2	41			0	30/01/2023 18:00
Santa Faz	17	57		↓	0	30/01/2023 18:00



### PLANNING

- Local Plans for fire prevention
- Forest management, farming plots, biomass plan
- Urbanism
- Regulation

### PREVENTION

- Fire prevention infrastructure (Firewall, watchtowers, water ponds, fire roads)
- Volunteering
- Building capacity

### MANAGING

- Teledetection
- Emergency services

### INNOVATION





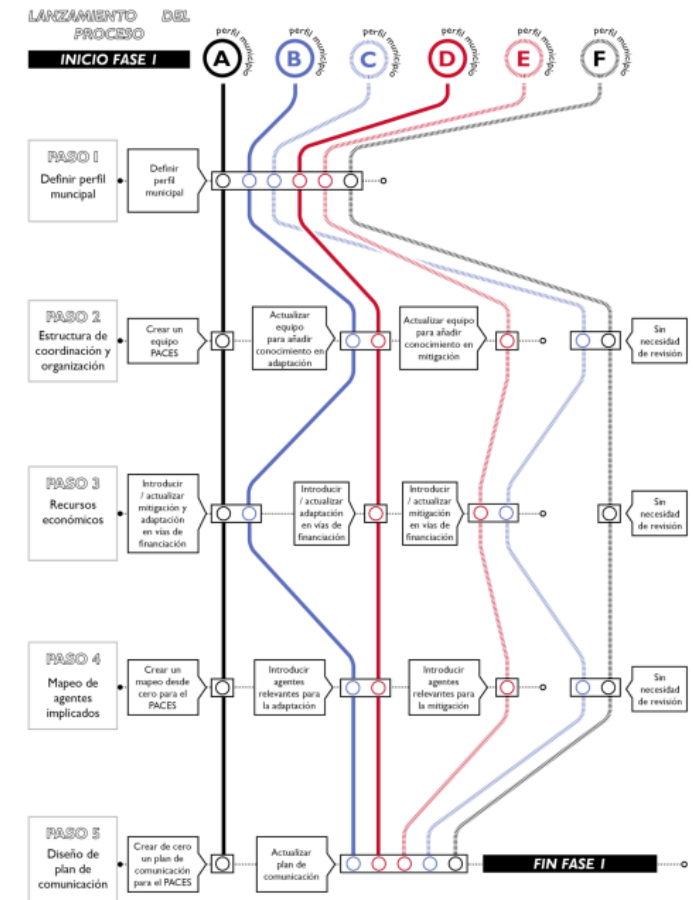
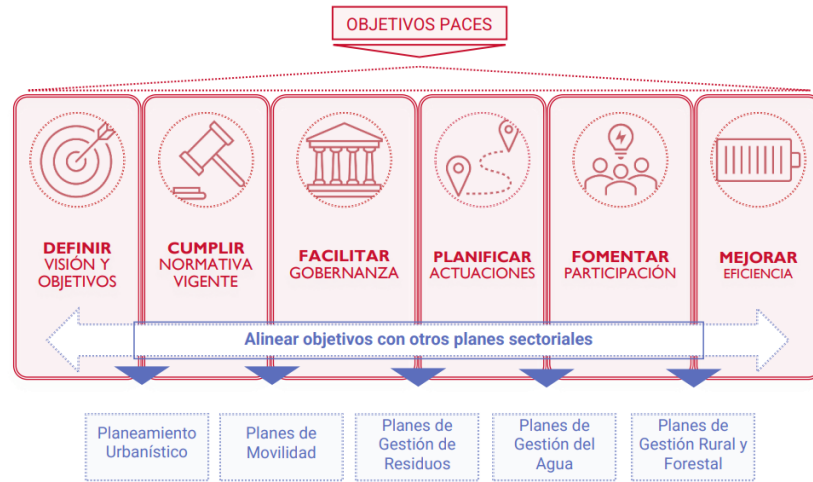
# Develop pathways to be better prepared and cope with the changing climate

## Municipalities

Regulation	Guidelines	Capacity building	Financing	Best practices
<ul style="list-style-type: none"><li>• Climate Action Plans</li><li>• Register</li><li>• CC Perspective:<ul style="list-style-type: none"><li>• urban planning</li><li>• budget</li></ul></li></ul>	<ul style="list-style-type: none"><li>• Methodology</li><li>• Templates</li><li>• Guides</li><li>• Resources</li></ul>	<ul style="list-style-type: none"><li>• Infodays</li><li>• Intermediate bodies</li><li>• Climate Support Facility</li></ul>	<ul style="list-style-type: none"><li>• Subsidies</li><li>• European projects</li></ul>	<ul style="list-style-type: none"><li>• Repository</li></ul>



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# Test and deploy on the ground innovative solutions needed to build resilience

**DESIRMED** (DEmonstration and mainstreaming of nature-based Solutions for climate Resilient transformation in the MEDiterranean)

- 33 partners: 5 demonstrating regions & 3 replicant regions
- 18.4 milion €
- 60 months

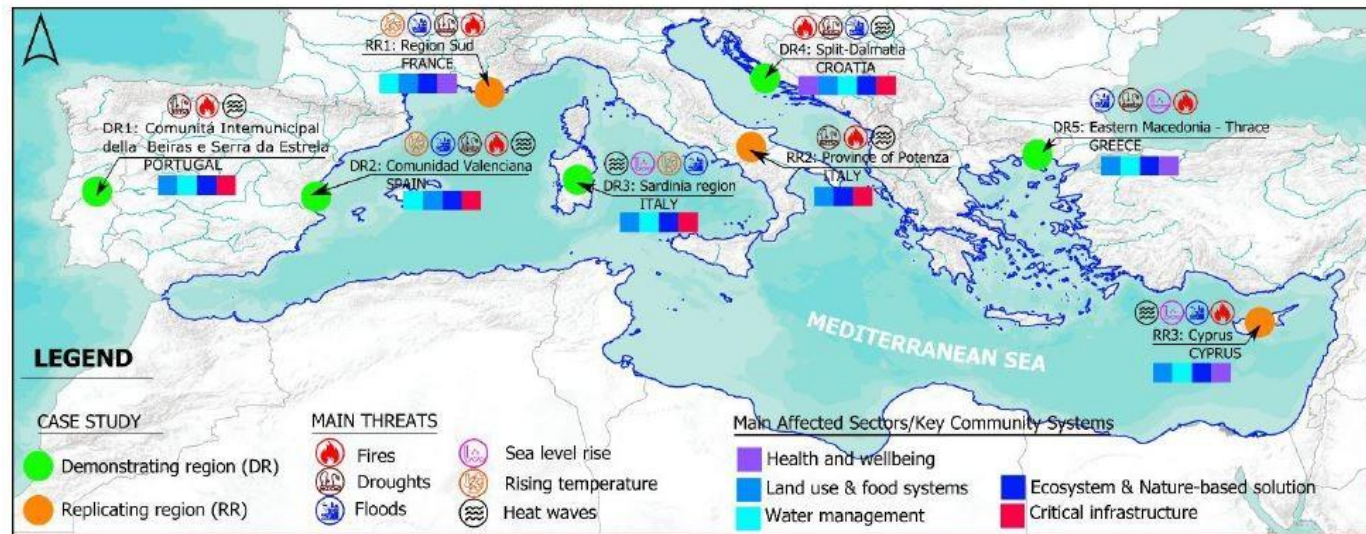


Figure 1.2c: Geographical scope of DesirMED

**87. ATENCIÓN DE EMERGENCIAS, PROTECCIÓN CIVIL Y SEGURIDAD ANTE EL CAMBIO CLIMÁTICO**

**OBJETIVO:**  
Establecer las bases para la reducción del riesgo de desastres asociados al cambio climático.

**METAS:**

- Meta 1: Mejorar la comprensión del riesgo de desastres asociados al cambio climático.
- Meta 2: Fortalecer la coordinación entre organismos y administraciones para la mejora de la gestión del riesgo de desastres climáticos.
- Meta 3: Mejorar la capacidad de respuesta de la población y de los organismos de emergencia para disminuir la vulnerabilidad.
- Meta 4: Facilitar protocolos que mejoren la capacidad de recuperación, rehabilitación y reconstrucción tras eventos climáticos extremos.

**ADICIONES:**

- 1) Desarrollar escenarios climáticos regionalizados para la Comunidad Valenciana, de acuerdo con el informe de evaluación (ARE) del IPCC (V4).
- 2) Elaborar y actualizar estudios regionalizados de los escenarios climáticos probables para la Comunidad Valenciana, que consideren los principales variables climáticas: temperatura, precipitación y aumento del nivel del mar) hasta finales de siglo, con escenarios paralelos a 2040 y 2070.
- 3) Elaborar estudios que profundicen en cómo los futuros escenarios climáticos afectarán al incremento y a la intensidad de los desastres (principalmente incendios, inundaciones, temporales marinos, temperaturas extremas), para rediseñar los medios para la gestión de las emergencias.
- 2) Mejorar la coordinación entre instituciones (M2, M4).
- 3) Fortalecer la coordinación con los órganos implicados en el seguimiento y respuesta a emergencia, para asegurar una capacidad de respuesta eficaz.
- 4) Impulsar la cultura preventiva en la Comunidad Valenciana, a través de la Sociedad Valenciana de Gestión Integral de los Servicios de Emergencias SVGE y la Comisión de Coordinación del Programa de Temperaturas Extremas de la Comunidad Valenciana.
- 3) Actualizar los planes de emergencia y protección civil, incorporando los efectos probables de cambio climático (M1, M4).
- 4) Incorporar en los nuevos planes sectoriales, planes especiales y procedimientos de actuación los requisitos de los escenarios climáticos para la Comunidad Valenciana.
- 5) Incluir en los protocolos y planes actuaciones post-emergencia que aseguren la reversión de los impactos y minimicen las consecuencias.



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# Thank you !

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