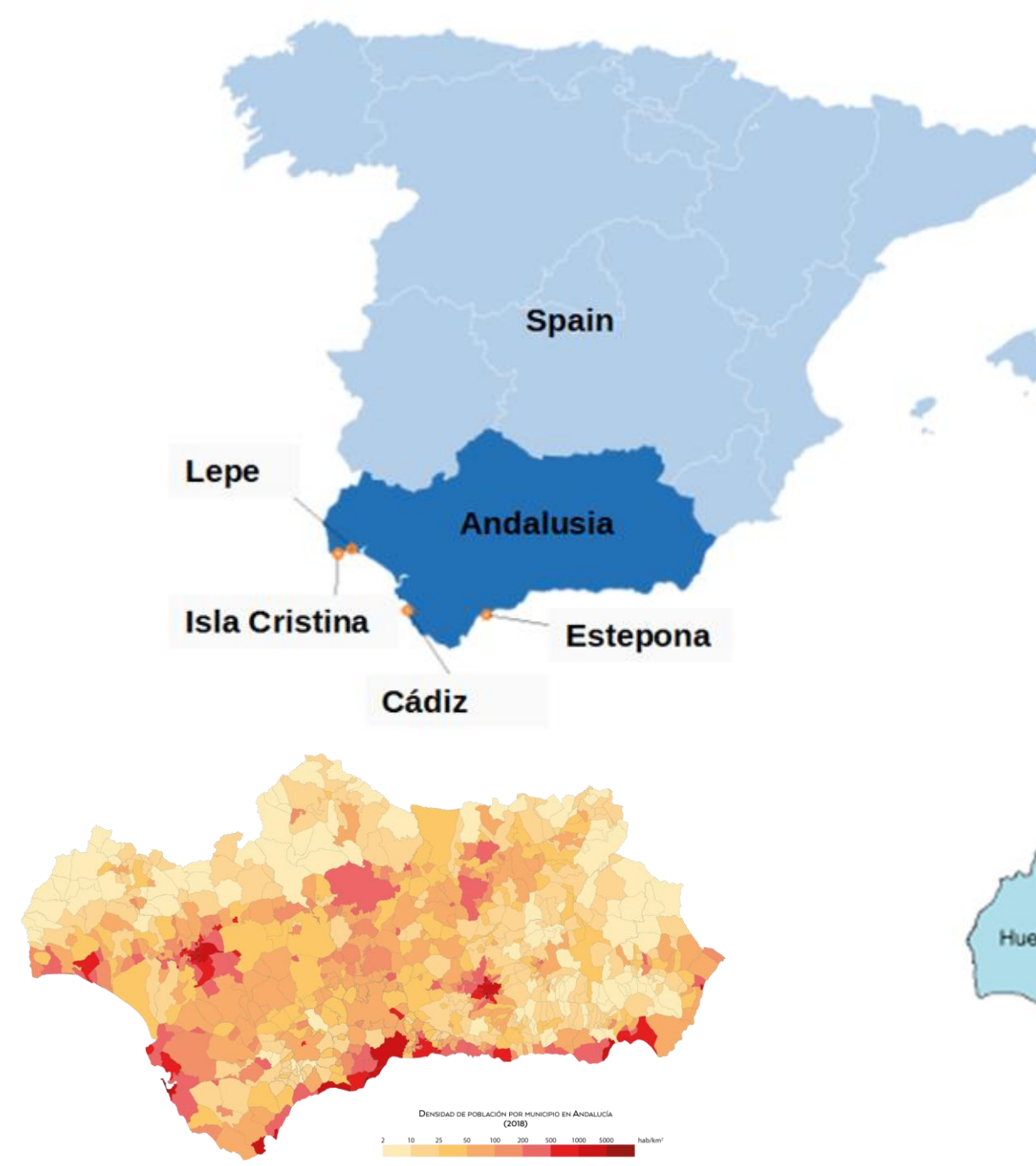


- Andalusia is the southeast region of Spain with an extension similar to Portugal.
- Administrative division in provinces (8) and municipalities (785).
- The most populated region of Spain, with more than 8,6 million people.
- Population is concentrated mainly in coastal areas and in the provincial capitals.



Related partners



Tsunamis



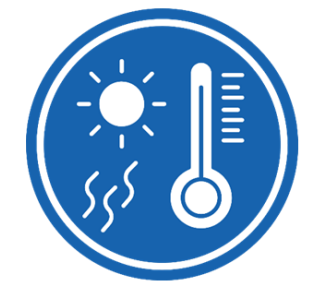
Wildfires



Floods



Earthquakes



Heatwaves



Heavy rainfall

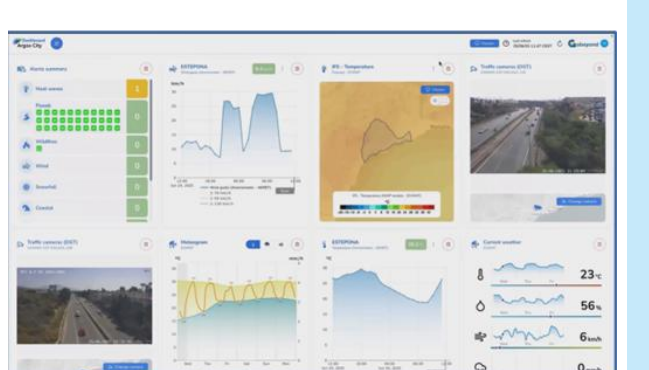
Main hazards addressed

Challenges

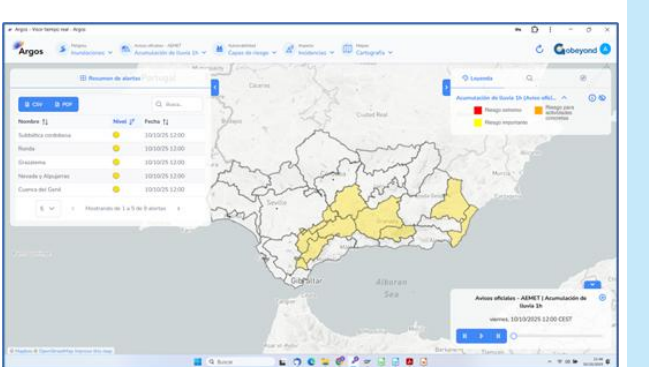
- Explore multi-hazard impact-based early warning tools.
- Integrate relevant information across multiple spatial and administrative scales.
- Integrate the generated products into daily decision-making.
- Interaction with other local tools and regional platforms.
- Key information must flow across different levels of emergency response authorities.

GOBEYOND solution (Local prototypes)

- Tailored implementation of the platform with adaptation at regional and local levels.
- Continuous integration of new relevant information (sensor data, predictive models, risk layers and vulnerable elements) across multiple spatial and administrative scales.
- Provision of end-user customization functionalities.



Customisation



Official sources

Use case & results : City platform Estepona (Flood risk prevention)

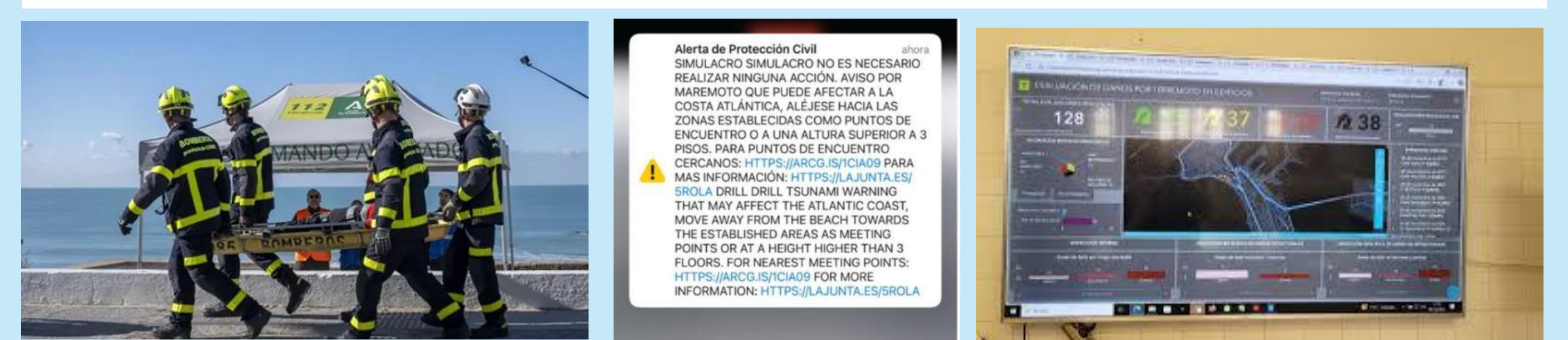


- Within the GoBeyond framework, the City Platform of Estepona has been used to systematically identify flood-prone vulnerable points within the municipality, with a particular focus on low-water crossings (vados inundables).
- These points represent critical locations where circulation of pedestrians and vehicles poses a significant risk during intense rainfall events.
- The platform supports the monitoring and visualization of these vulnerable locations, enabling local authorities to anticipate hazardous situations.
- Based on the identified risk, preventive measures can be activated, such as the temporary closure of crossings and the installation of physical barriers to prevent unsafe crossings by the population.

Lessons learned

The system was tested during the sequence of storms affecting Andalusia in early February 2026, supporting preventive actions and situational awareness at local level.

Use case & results : City platform Cádiz (Tsunami risk prevention)

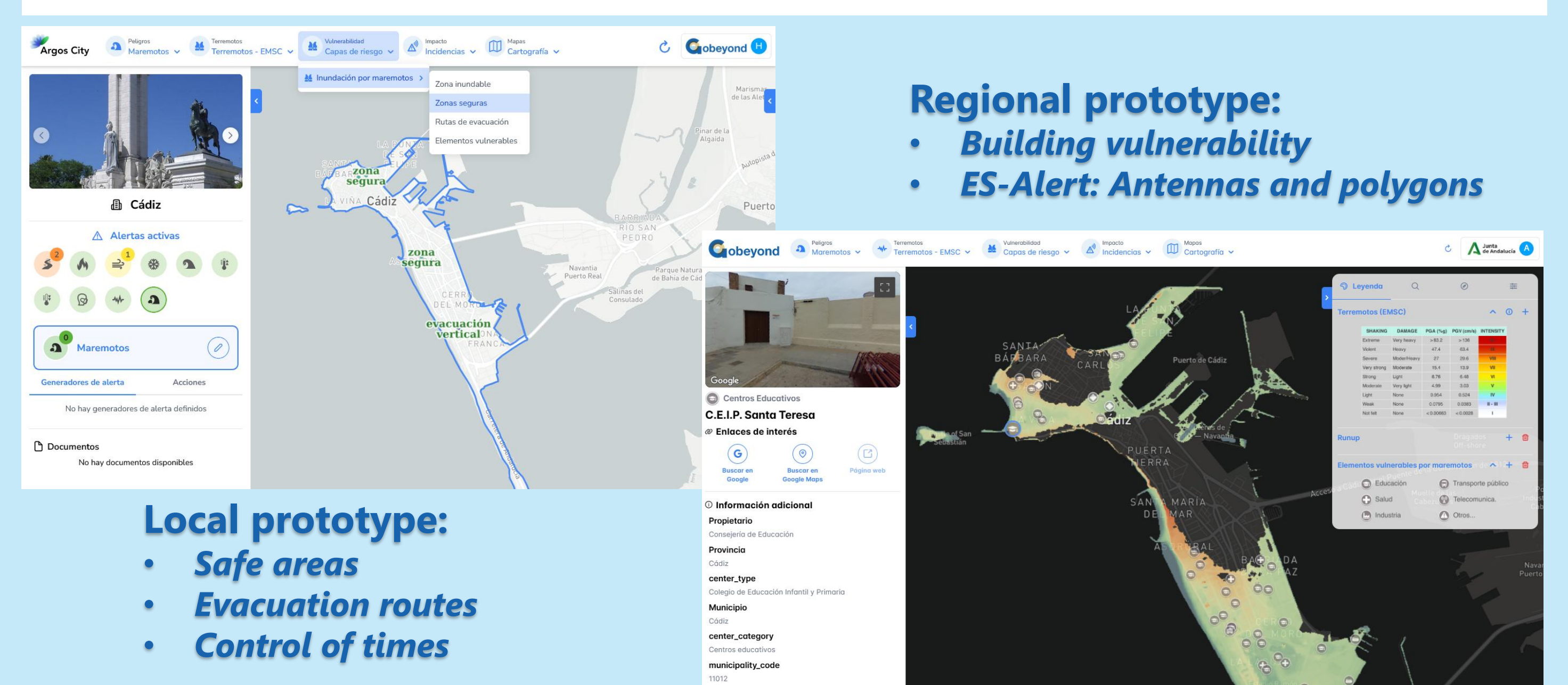


On 20 November 2025, the regional large-scale exercise "Respuesta25" simulated the impact of a tsunami affecting the city of Cádiz, testing regional and local emergency coordination. Within this context, the City Platform integrated key information from the Regional Tsunami Emergency Plan, including potential inundation areas and expected inland water depths, while Local Civil Protection identified schools located in exposed zones and defined evacuation routes towards safe areas, strengthening urban preparedness and operational planning.

"Tsunami warning: go inland, go high."

Lessons learned

Simulation exercises are key to testing emergency plans and coordination mechanisms, and City Platforms enable both preparedness activities and the integration of post-exercise lessons.



Regional prototype:

- Building vulnerability
- ES-Alert: Antennas and polygons

Local prototype:

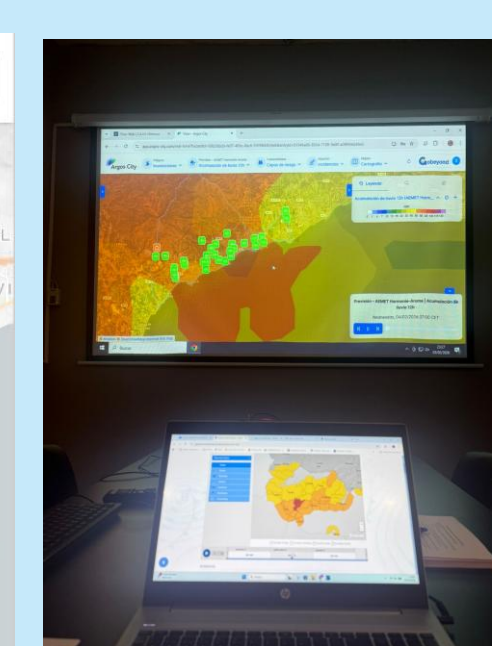
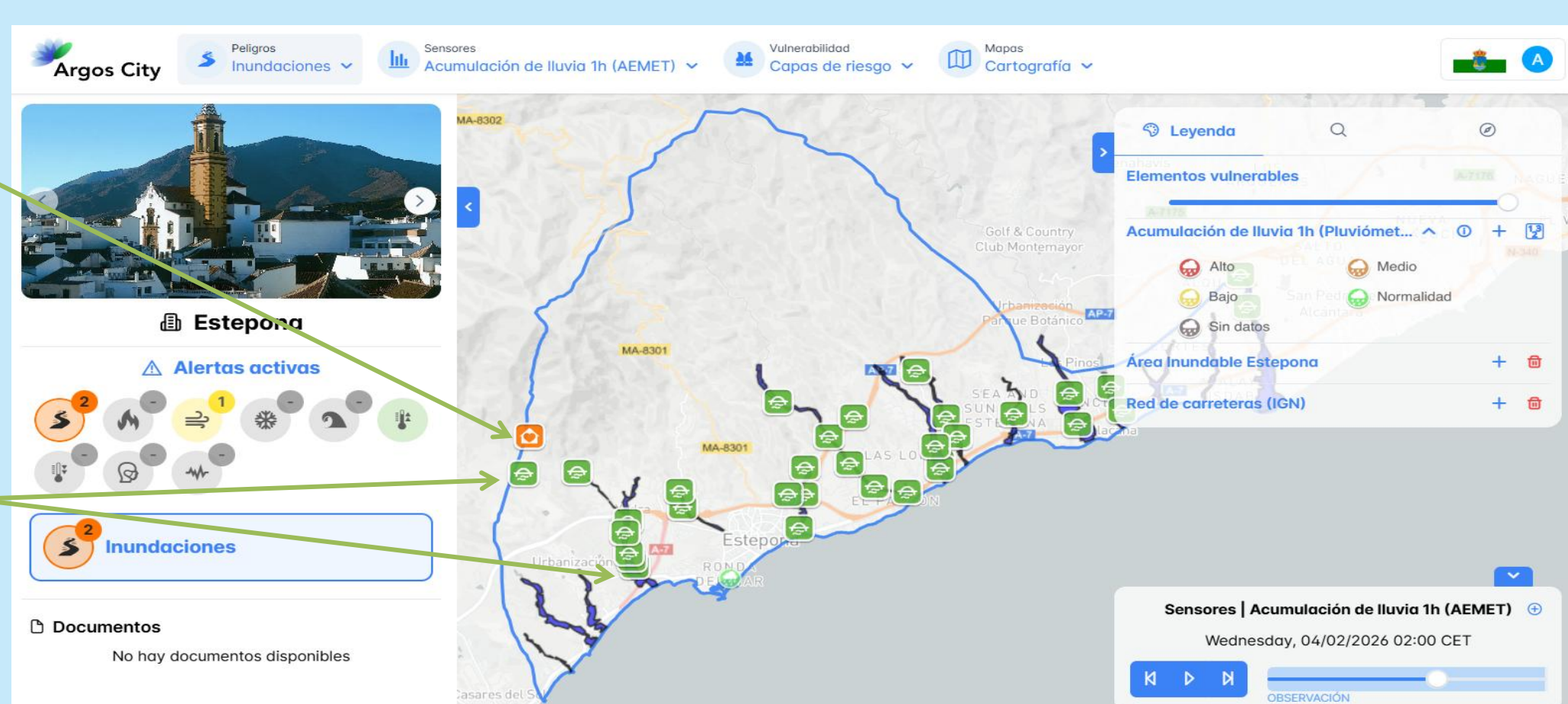
- Safe areas
- Evacuation routes
- Control of times

ANIMAL SHELTER
(CLOSE TO RIVER)

CONCRETE
ACTIONS

FLOODABLE
FORDS

CONCRETE
ACTIONS



Situational
monitoring of
vulnerable
points.
(3/2/2026-23:30)