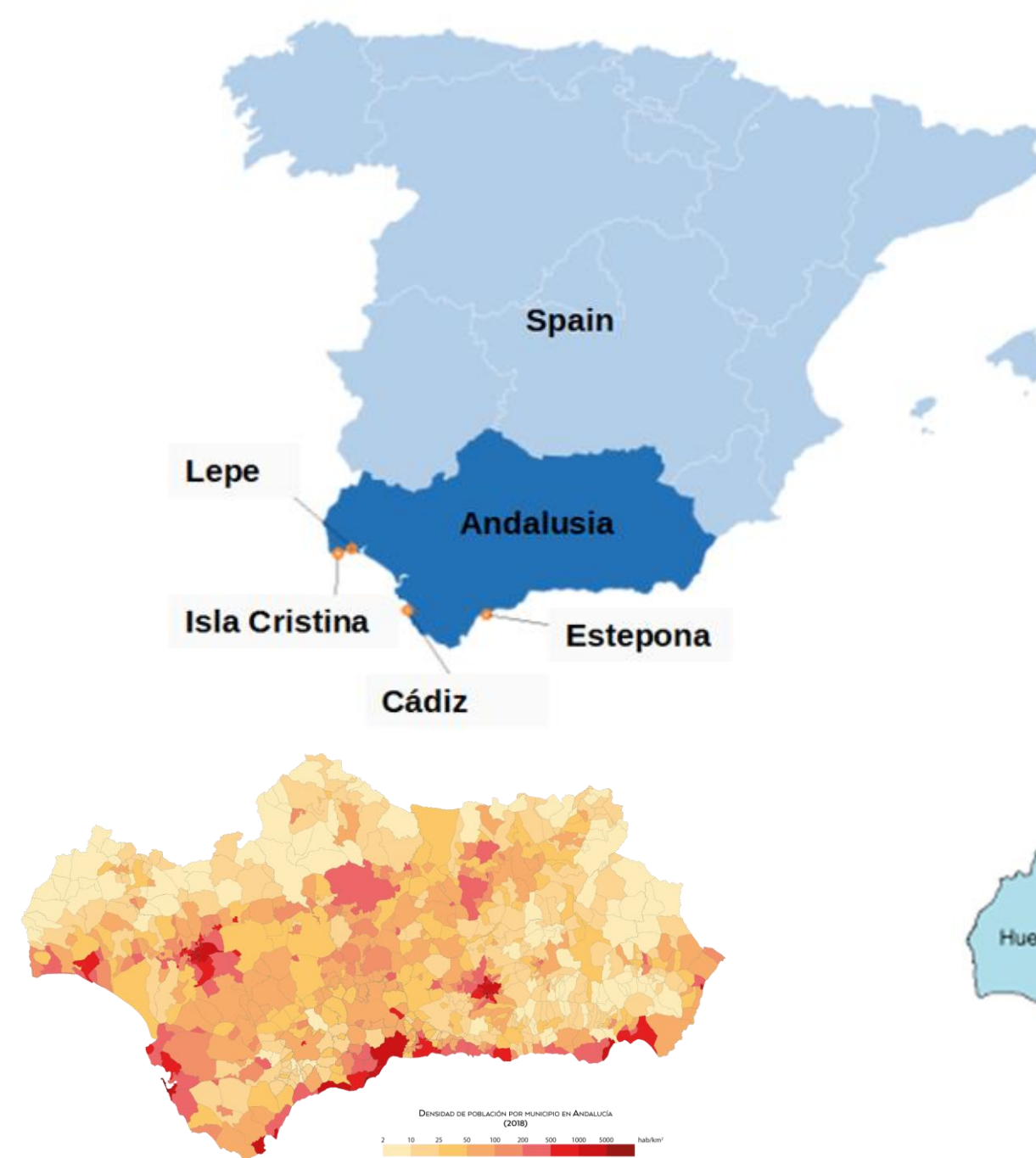


- Andalusia is the southeast region of Spain with an extension similar to Portugal.
- Administrative division in provinces (8) and municipalities (785).
- The most populated region of Spain, with more than 8,6 million people.
- Population is concentrated mainly in coastal areas and in the provincial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



Related partners



Tsunamis



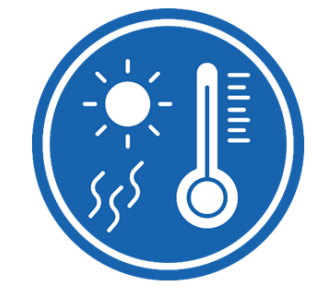
Wildfires



Floods



Earthquakes



Heatwaves



Heavy rainfall

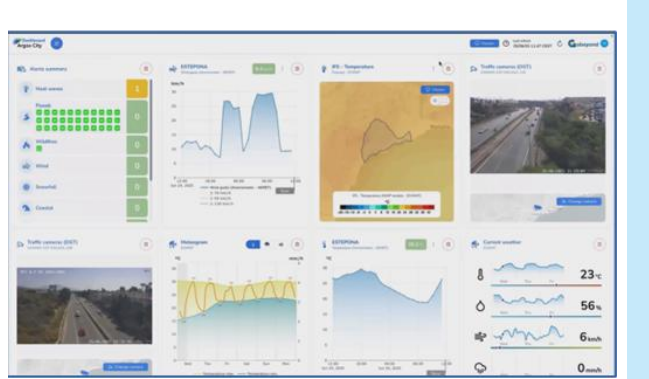
Main hazards addressed

Challenges

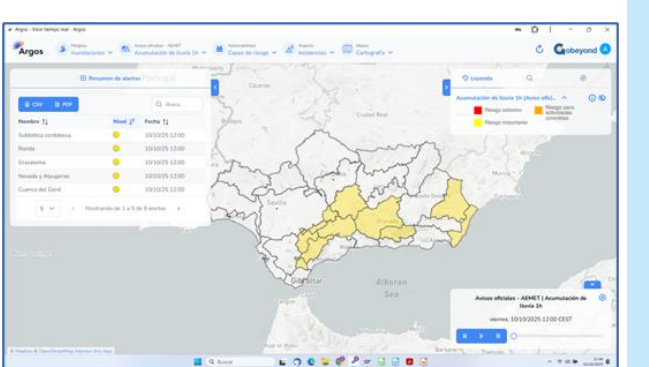
- Explore multi-hazard impact-based early warning tools.
- Integrate relevant information across multiple spatial and administrative scales.
- Integrate the generated products into daily decision-making.
- Interaction with other regional (PIGEA-SASE) and national (RAN) platforms.
- Key information must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

GOBEYOND solution (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.
- Ongoing work on interaction capabilities with other platforms.



Customisation



Official sources

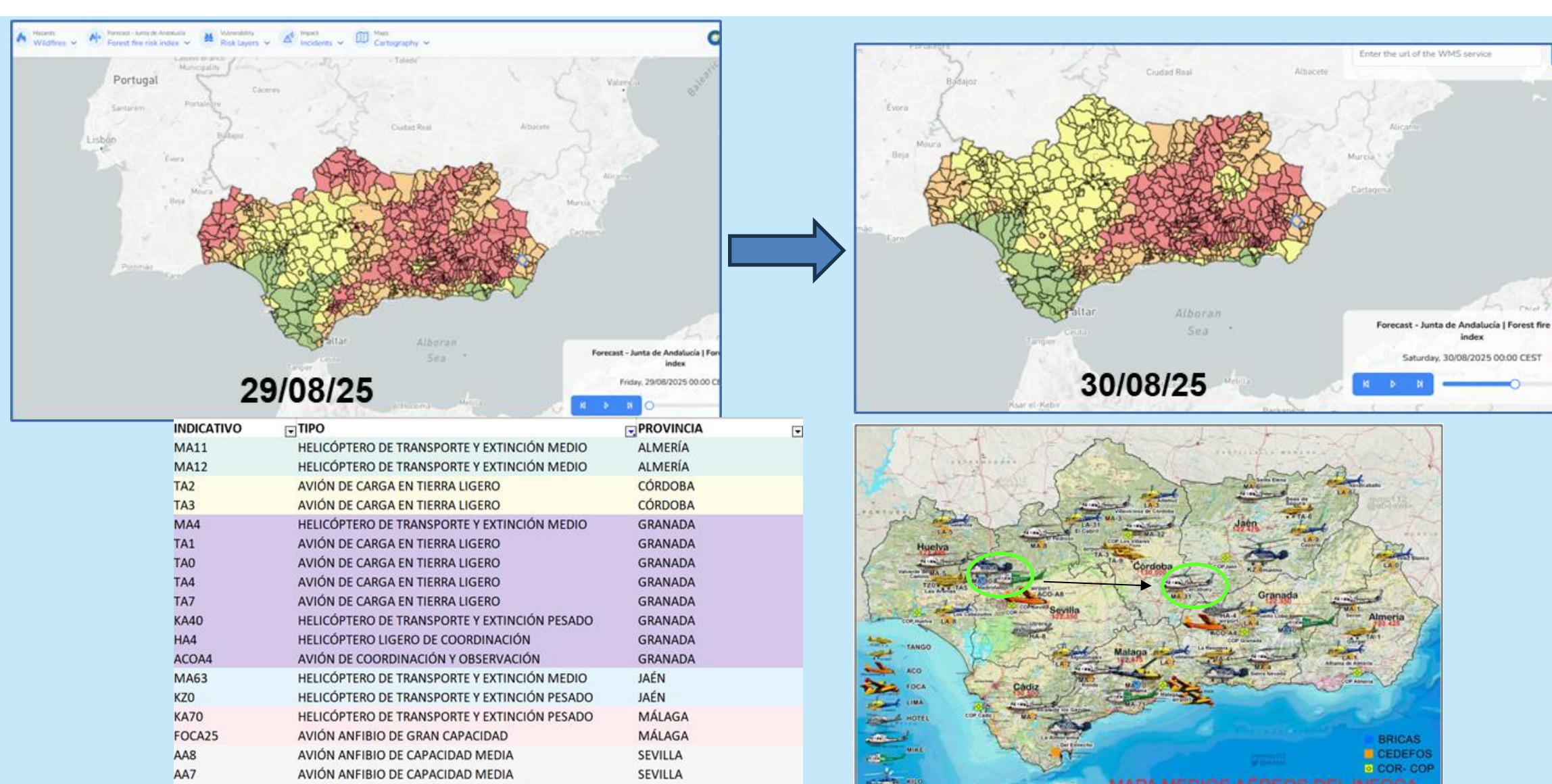
Use case & results : Lubrín forest fire



- During Lubrín forest fire (28/08/25, Almería), consulting the Forest fire risk index forecast through the regional platform proved to be very useful.
- The forecast of the Forest fire risk index for the next days reveals a disparity between eastern and western Andalusia.
- In Andalusia, the aerial resources dedicated to firefighting are positioned at their bases, which are distributed throughout the region.
- Specialized forest fire unit (BRICA) from Madroñalejo (West of the region) has changed temporally its base to Carcabuey (East of the region).

Lessons learned

Within the GoBeyond framework, enhancements have been implemented to the visualization of the forest fire risk index, enabling its representation at municipal scale.



Use case & results : Series of storms from late January to 6th February 26



Between late January and early February 2026, a sequence of storm events impacted Andalusia, resulting in widespread flooding, significant disruption to transport systems, and substantial impacts on the population and critical infrastructure.

Monitoring

- Official AEMET warnings.
- Precipitation accumulation products (observation and forecast).
- River warnings.
- Impacts products.

Anticipation

- First time a Level 2 operational situation under the Flood Emergency Plan has been activated in advance.
- Preventive and mitigation measures.

Lessons learned

Effective management of extreme events requires real-time access to integrated data sources, supported by predictive and forecasting capabilities to anticipate impacts and support timely decision-making.

