

High resolution weather-climate
services, applications and data



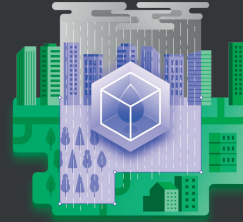
The scenario

Climate change mitigation and adaptive resilience actions require a suitable climate knowledge base in order to support the most effective strategies and monitor their results.



Unified database

The data collected from the observation set (networks of weather stations, radars, lightning, satellites, radiometers, etc.) feed into a systematic, coordinated national database.



Representative weather data

By convention, in probative situations (contractual, legal), meteorological data is considered to be adequately representative at up to 1 km² of land area.

Our approach

From the physical atmosphere to the digital copy of the atmosphere



01

The Hypermeteo grid

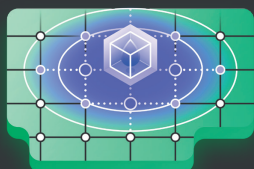
Data from the global observation set are processed and spatialised on high-resolution (up to 1 km) digital grids.



02

Updating the dataset

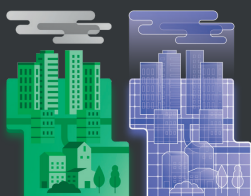
A constant flow of information feeds the process of continuously updating the dataset with historical, real-time and forecast data.



03

Virtual weather stations

Each cell of the digital grid corresponds to a virtual weather station that detects, processes and stores all weather parameters.



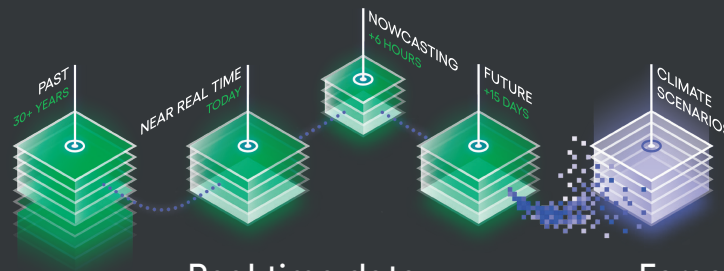
04

Atmospheric digital twin

The datasets populate a regular system of digital map grids that stand out for their high representativeness of weather-climate trends and the complete coverage in space and time offered.

The dataset

A single digital meteorology, multiple opportunities for use



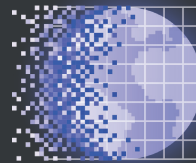
Historical data

Faithful reconstruction of past climates through digital reanalysis of historical datasets.



Real-time data

Continuous, real-time monitoring of the trends of all weather variables.



Forecast data

Nowcasting developed using medium-term proprietary algorithms, with a multi-model ensemble system.

Risk indices and indicators

Accurate and representative information summarising the climatology of each adversity for each point in the territory.

Climate scenarios

A medium- and long-term view, correlated with the different possible hypotheses of climate evolution according to IPCC, to measure the impact of climate change.

The solutions

Take charge of your business



Integration with API system

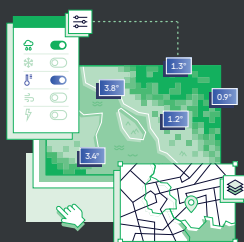
Display of data using three-dimensional grids (time, latitude, longitude), two-dimensional grids (latitude, longitude), vector grids (station and lightning data) and time series for specific geographical locations.



MeteoCast®

All the weather information at your fingertips

The WebGIS platform, which provides a comprehensive and detailed visualisation of weather data and events, is aimed at end-users, even those without a specific meteorological background.



Operational support and reporting

A 24/7/365 operations room where a team of specialists offers a continuous service of direct support, reports, bulletins and forecast alerts, both on land and at sea.



About



Radarmeteo

Professional weather services

An innovative SME developing technologies and services for weather-climate monitoring to support operations, decision-making and risk analysis in the energy, oil & gas, utilities, insurance, credit management, road, transportation, civil protection, health care and agricultural sectors.



Hypermeteo

Climate & weather grids

A company specialising in the development of high-resolution weather and climate datasets - including historical, real-time and forecast data, climate indices and scenarios - supporting businesses and organisations in assessing risks and developing strategies for climate change adaptation.

The quality of the data and services provided
by the two companies is certified



Radarmeteo

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Find out more

