

Hackathon

It was held on 30 May in Milan, in the evocative setting of the plumbing laboratory G. Fantoli, at the Politecnico di Milano, the hackathon of the MISTRAL project, to collect the requirements of the open data meteorological portal at national level under construction.



Nine thematic tables (**transport, energy, sport and tourism, media, research, institutions, insurance, agriculture and private providers of weather services**), for a total of 70 people, answered some precise questions about the **strategic nature of data and weather forecasts** for their sector, the limits and **opportunities** that meteorology offers today, the contribution that the sector could make to public meteorology.

Wishes were collected, even in the long term, on the subject of weather forecasting. Finally, possible **collaborative business models** were also outlined to support a quality and authoritative meteorology.

MISTRAL
Meteo Italian Supercomputing Portal



www.mistralportal.eu



Co-finanziato dall'Unione europea per collegare l'Europa dell'Unione europea

The **MISTRAL** (Meteo Italian Supercomputing poRtAL) project is funded by the European Union's Connecting Europe Facility (CEF) programme - Telecommunication Sector

Purpose

The main aim of the project is the creation of a **National Portal of Open Meteorological Data** to provide citizens, Public Administration and national and international private organizations, meteorological data from the observational network, historical analysis and forecasts in real time, with high accuracy.

The purpose of the **MISTRAL** portal is to facilitate and promote the re-use of meteorological datasets by both the meteorological community and other potentially interested sectors, to provide value-added **services** through the use of supercomputing resources, identifying new business opportunities.

Partner

The project is coordinated by **CINECA**, excellent technical provider, and involves the joint participation of very important partners: **ECMWF** (European Centre for Medium-Term Forecasts), **Arpa Piemonte** (responsible for providing data and weather forecasts), **Arpa Emilia-Romagna**, **Civil Protection Department** and **Dedagroup Public Services srl**.

open portal of weather Italian forecasts in a numerical form as an output of the meteorological modeling and from subsequent reworkings

Promotion of MISTRAL portal: an activity related to the public dissemination of the portal's functionalities and opportunities will be carried out to ensure its effectiveness and raise awareness of potential users. There will also be a dedicated interaction with stakeholders and specific users

Open Italian portal of observational meteorological data collected in a digital archive digitale

Deriving services from the post processing of meteorological data and forecasts through the use of High Performance Computers:

- Observational meteorological data;
- Weather forecast data on a regular grid through an interactive service;
- Meteorological maps and fields from retrospective rework
- High accuracy precipitation probabilistic forecasts for forecasting sudden floods

Connectivity between data and computational nodes will be improved as necessary

Open data policies for national meteorological data in order to finalize a national regulation and promote the reuse of meteorological data. Stakeholders will be consulted in a pro-active way in the definition of the policy process and in the design of the portal.

High reliability services: the national portal of the open meteorological data will be designed to operate in high reliability to ensure a 24x7 service with the necessary assistance and maintenance