



Company profile



Professional weather services
for operative support:

- 24/7 weather support services
- Applications for data visualization
- DSS



Meteorological data and services on
high resolution digital grids :

- Historical, real-time and forecast data
- Early warning systems / push notifications
- Weather and climate risk indexes
- Climate scenarios

for the management and optimization of
activities affected by meteorological
phenomena and climate change

About

Italian-based company specialized in
professional weather services

Team includes about 20 people specialized in
Physics, Atmospheric Physics, Data Science.
Forestry and Agricultural Sciences, Environmental
Engineering

Operative on the B2B market only

ISO 9001:2015 certified company for
Provision of professional weather services



Industries



UTILITY

Weather data visualization applications

Provision of near real-time and forecast data for early warning purposes (e.g. rain, lightning)

24/7 operational weather support



LAND RECLAMATION AUTHORITY

Weather data visualization applications

24/7 operational weather support

Ex-post analysis with historical data



TRANSPORT & ROAD

24/7 operational weather support

Weather data visualization applications

Ex-post analysis with historical data



OIL & GAS, MARITIME

24/7 operational weather support

Probabilistic long-term forecasts (ensemble methodology)

Alert and notifications of lightning and severe weather

Industries



AIRPORTS

24/7 operational weather support

Alert and notifications of lightning and severe weather

Weather data visualization applications



SMART AGRICULTURE

Weather data integration (historical, real-time, forecast) for DSS

Consultancy for installation and integration of IoT sensors



INSURANCE

Supply of historical data for risk assessment and policy pricing

Development of risk index

Supply of on-demand reports to operative groups



CIVIL PROTECTION

Weather data visualization applications

24/7 operational weather support

Industries



ENERGY

Integration of historical weather data for climatological analysis

Integration of real-time and forecast data for plant producibility

Alerts and notifications on severe events to minimize impact on infrastructure



RETAIL

Integration of forecast data to supply purchase proposals in line with weather conditions (website, e-commerce)

Customization of in-store messages, adapting the contents according to real-time weather conditions

Cross-analysis of weather-sales data to optimize marketing campaigns

Predictive support for analyzing demand

References

e-distribuzione

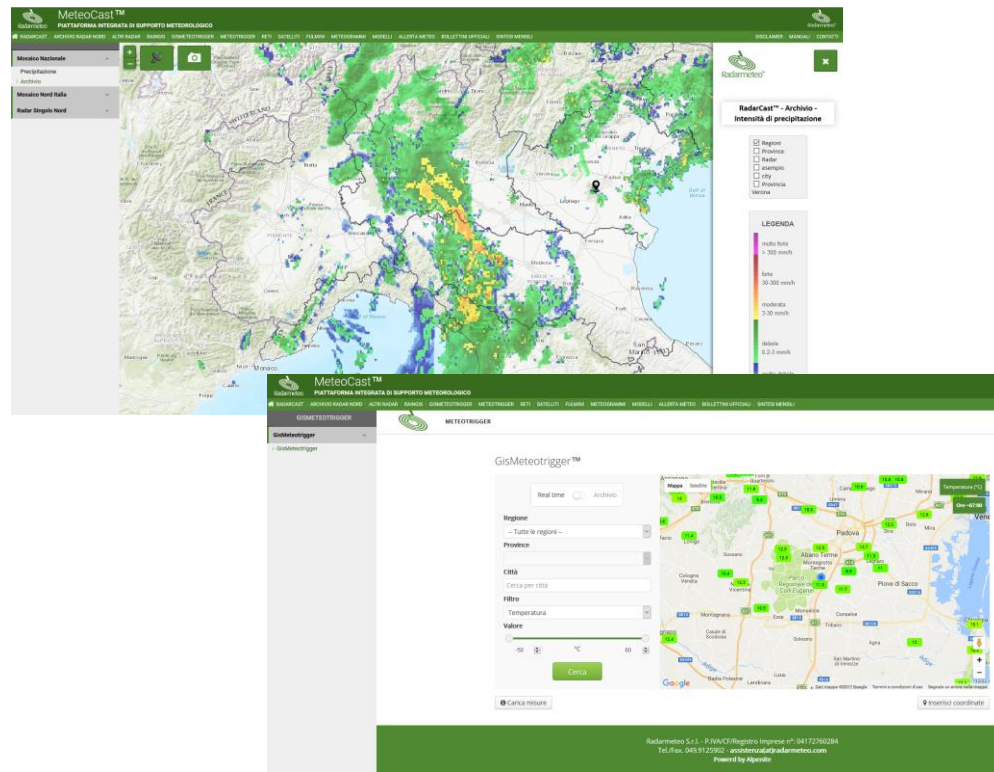


Meteorological Decision Support System

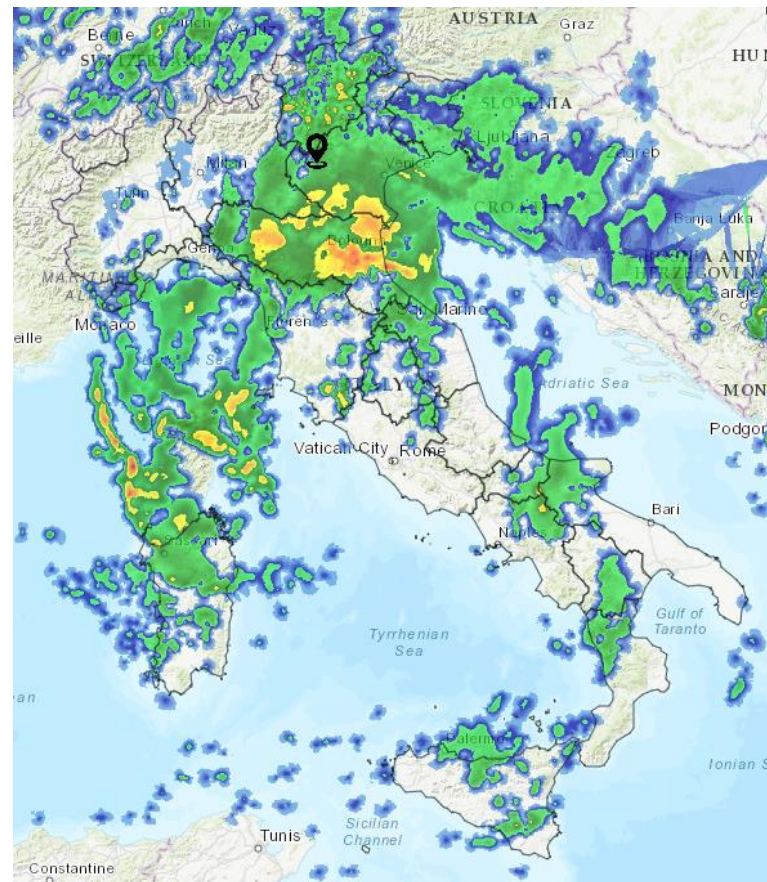
MeteoCast[®]

The platform, accessible via a web-app, collects the whole available meteorological information:

- RadarCast[®]
- RainGis[®] /SnowGis[®]
- GisMeteotrigger[®]
- Meteotrigger[®]
- Lightning and thunderstorm monitoring
- Nowcasting and forecasting bulletins
- Forecast maps and graphs
- Satellite images



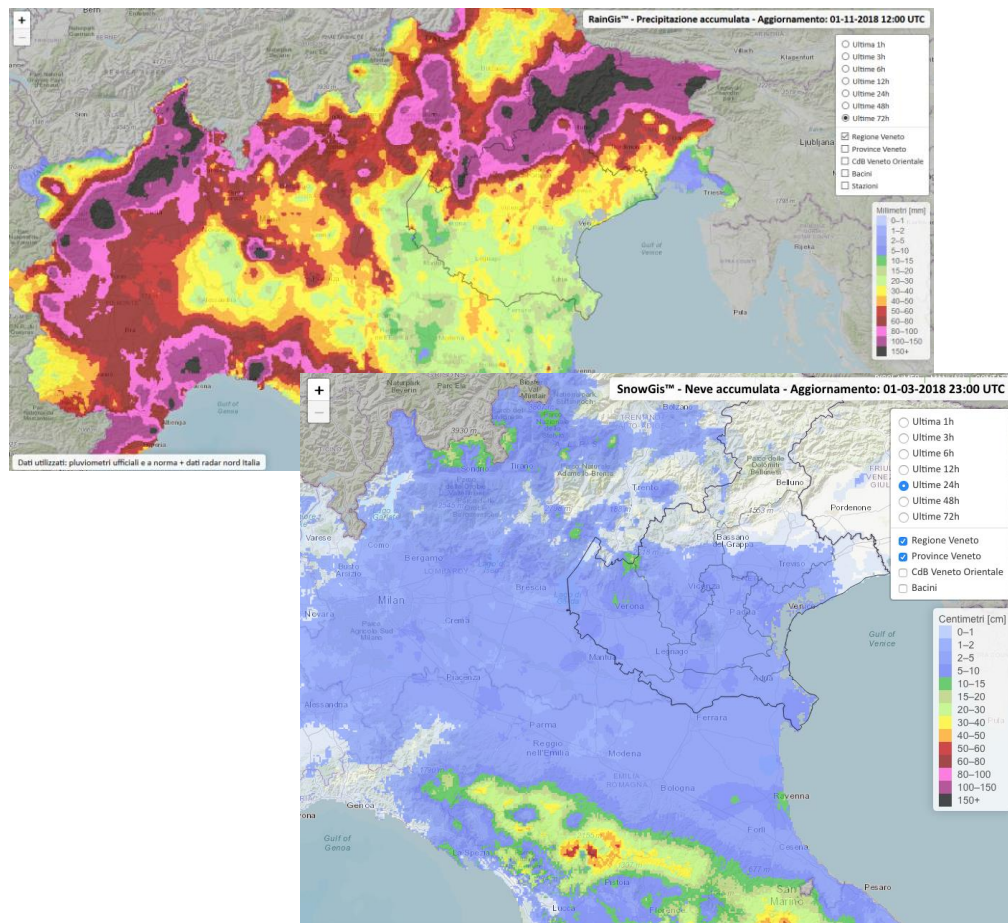
- Includes approximately 40 Italian and near countries' weather radars
- 1 km data spatial resolution
- Interactive visualization of precipitation in real time
- Interactive visualization of precipitation type (rain, snow, hail...)
- Nowcasting feature (high precision short-term forecast)
- Historical archive



Real-time & historical accumulated precipitation maps

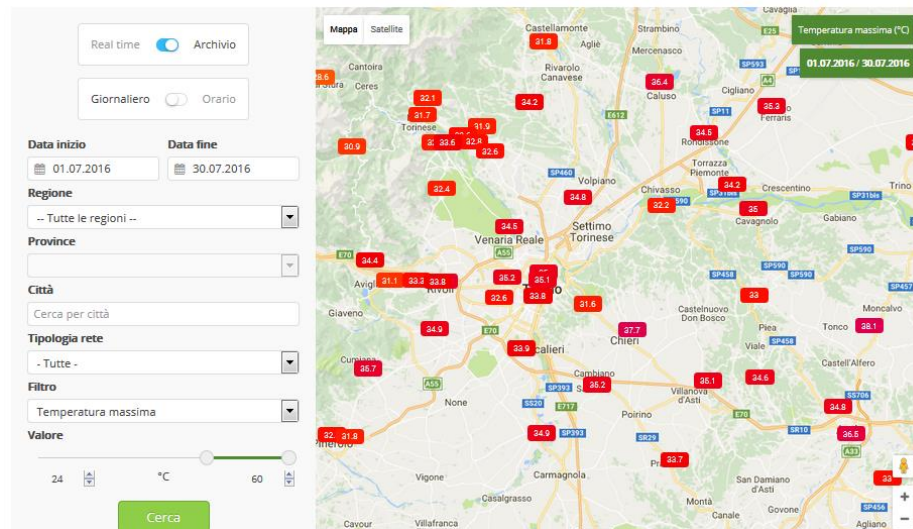
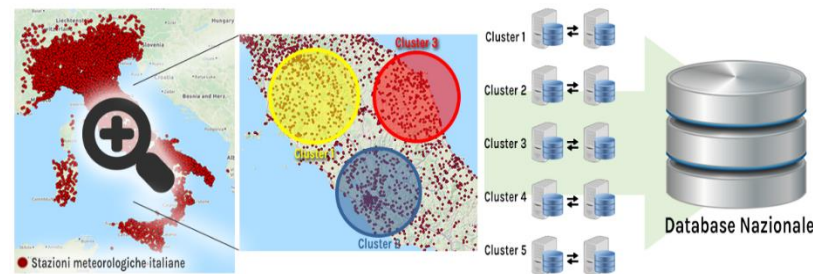
RainGis® & SnowGis®

- Accumulated precipitation processed by integrating radar data with weather stations data.
- Visualization of rainfall accumulation on an interactive GIS system.
- Integration of Client-owned data for improved accuracy and quality information.



GisMetetrigger[®]

- Data visualization tool of the database of certified, official and WMO compliant meteorological data
- Collects all available meteorological data continuously
- Easily provides both real time and historical data
- Geolocates the user and shows data related to nearby weather stations
- Recently integrated with historical lightning data

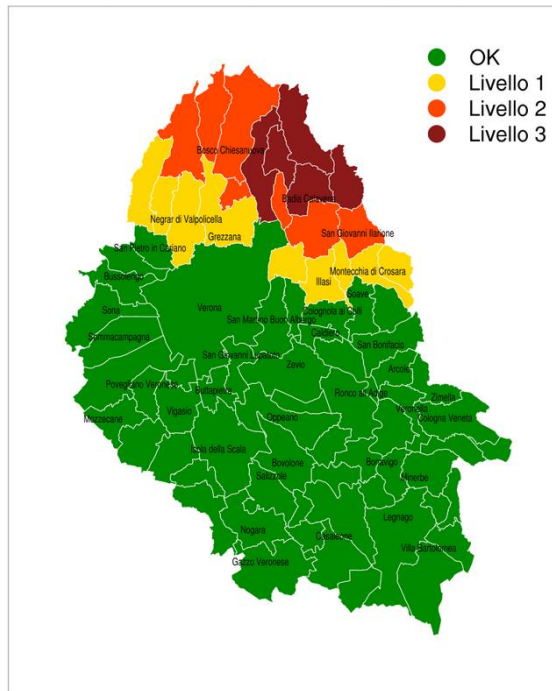


Accurate prediction of precipitation accumulations

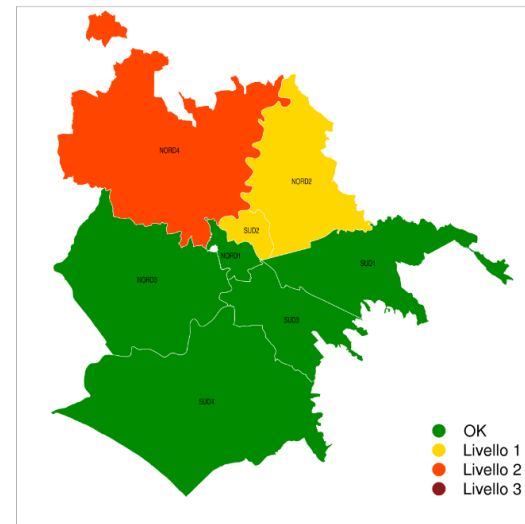
RainCast®

- Integration of different forecasting methodologies (nowcasting and models) depending on the time horizon of the forecast;
- Hourly updated;
- Alert thresholds contextualized to the local climatology (e.g. return times) and defined on different time windows of accumulation (1, 3, 6, 12, 24, 48 and 72 hours).

Previsione livelli di allerta prossime 72 ore
Periodo dalle ore 15:00 del 01/10/2020 alle ore 15:00 del 04/10/2020



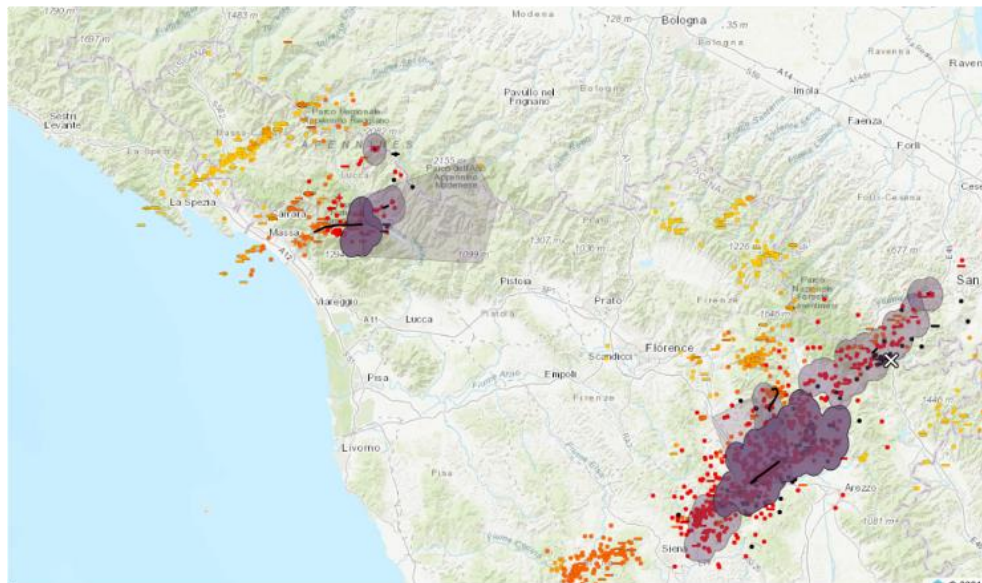
Previsione livelli di allerta prossime 72 ore
Periodo dalle ore 12:00 del 11/06/2020 alle ore 12:00 del 14/06/2020



Lightnings and thunderstorms monitoring

Network for the high-precision tracking of storms, with indication of their position, intensity and direction of movement

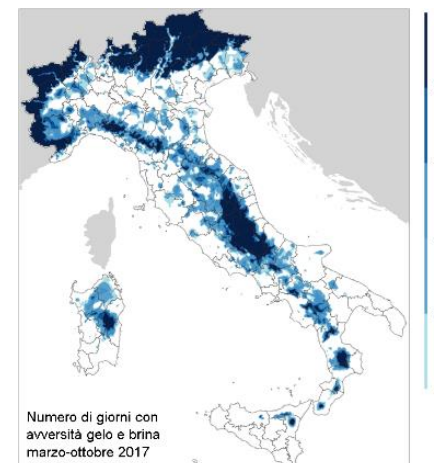
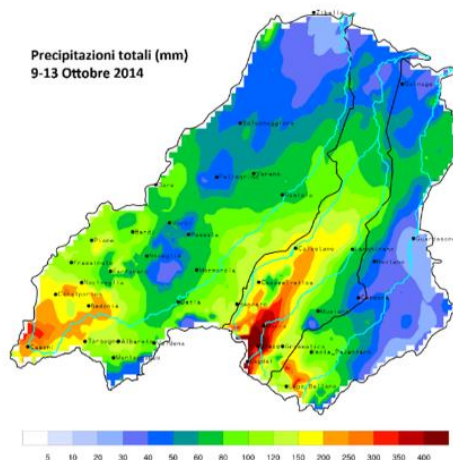
- High detection efficiency (over 98% of all lightning) and high accuracy (about 100m)
- Tracking each storm with:
 - Indication of the areas affected by the storm in the next hour
 - Indication of the position, intensity and direction of movement
- Alert and notification system



Meteotrigger® & Alert Ex-Post®

- Services for the supply of reports for the verification of severe weather conditions described in insurance contracts, starting from certified, official data and in accordance with WMO
- They also offer support in institutional communication, in relations with media and in any legal disputes

Località	Accumulo precipitativo in 3h			Info superamento soglia	
	Massimo	Minimo	Media	Porzione comunale	Zona
Soave	52 mm	35 mm	45 mm	75 %	Centro-Sud
Monteforte d. A.	41 mm	34 mm	37 mm	6 %	Sud
San Bonifacio	49 mm	40 mm	43 mm	100 %	-
Arcole	43 mm	37 mm	40 mm	47 %	Nord-Est
Colognola	53 mm	35 mm	43 mm	57 %	Est
Caldiero	47 mm	36 mm	41 mm	50 %	Est
Illasi	45 mm	30 mm	34 mm	8 %	Sud-Est



24/7/365 weather support service

- Weather forecast bulletins from 72h ahead the occurrence of severe weather phenomena, supported by interactive maps with territorial focus and highlighting the areas on which the severe weather is expected.
- Bulletins are sent via email and is available on a dedicated web-app.
- Continuous support to the operating room, operators, decision makers in the delicate phases of severe weather, in particular to correctly inform on the intensity and evolution of the meteorological situation

domenica 7 gennaio 2018

Piemonte - Tempo perturbato con nevicate moderate o localmente abbondanti (20-50 cm in media) sulle Alpi oltre i 1000-1200m (a tratti più in basso) sulle valli più strette e Cuneese. Piogge intense nelle zone collinari e pedemontane (30-60mm). Vento moderato o debole, ma sui 50km/h sui rilievi.

Lombardia - Nevicate molto leggere oltre i 1000-1300m, appena più consistenti in serata (3-5 cm). Vento debole o moderato.

Liguria - Piogge persistenti sui settori ad ovest di Savona, specie verso il confine con il Piemonte, dove a tratti non sono escluse nevicate deboli o moderate oltre i 7-900m (5-15 cm in quota). Vento sui 50-70km/h sui crinali appenninici e coste occidentali, altrimenti debole. Vento debole ovunque dalla sera.

Veneto - Giornata con tempo perlopiù stabile. Vento leggero o moderato.

Friuli-Venezia-Giulia - Piovigini o piogge leggere in serata, ma con accumuli scarsi. Vento leggero o moderato.

Emilia-Romagna - Qualche rovescio in arrivo in serata sull'Emilia, altrimenti stabile. Venti moderati sui rilievi, altrimenti deboli.

Marche - Tempo stabile. Venti moderati, ma sui 20-40km/h sulle coste dal pomeriggio.



Bollettino realizzato da Radarmeteo Srl

Emissione del 07/01/2018 delle ore 09:30 - [Legenda](#)

Pagina n° 1

venerdì 1 febbraio 2019

Bollettino elaborato da: Lorenzo Catania

DTP Torino - Inizialmente ancora neve fino al fondovalle su tutta la regione, specie province AL, NO, AT (acc. 5-10 cm). Possibili episodi di gelicidio entro il primo pomeriggio nelle vallate appenniniche. Migliora nel tardo pomeriggio. Temperature minime -10°C su buona parte delle linee, -4°C in montagna, massime sui +1+2°C in pianura. **DTP Milano** - Neve unida su pianura ovest, in trasf. in pioggia. Neve a tratti moderata sui monti (acc. fin sui 5-10 cm). Temp. minime attorno i -1+0°C su buona parte delle linee, massime sui +1+3°C in pianura. **DTP Genova** - Fino a sera piogge e temporali su buona parte della regione, neve oltre 200m su province GE e SA, oltre 700-1000m altrove (10-15cm a bassa quota su Savonese). Probabili episodi di gelicidio nel pomeriggio nelle vallate appenniniche. Acc. piovosi: 40-70mm tra Genovese e Spezzino. Temp. minime attorno i -1+1°C su buona parte delle linee interne, massime sui +5+13°C sulla costa. **DTP Verona** - Neve su Alpi con quota in salita, pioggia altrove. Acc. fino 10-20 cm sul Brennero. Temp. minime -20°C sul Brennero, 0+5°C a bassa quota, massime -3+4°C in pianura e attorno a zero in montagna. **DTP Venezia** - Quota neve in progressivo rialzo, abbondanti nevicate verso Calalzo (15-20cm), poi in serata aumento delle temperature e pioggia probabile. Accumuli piovosi fin sui 40-70mm sulle Prealpi. Vento attorno i 50-70km/h in montagna. Temperature minime attorno i +2+6°C su buona parte delle linee, valori massimi sui +4+9°C in pianura. **DTP Trieste** - Piogge gradualmente più intense, ma quota neve in aumento fin sui 600-1000m. Accumuli piovosi fin sui 40-70mm sui rilievi. Vento sui 50-70km/h dal pomeriggio in poi. Temperature minime attorno 0+2°C in montagna, su +5+9°C altrove, valori massimi sui +6+10°C in pianura.



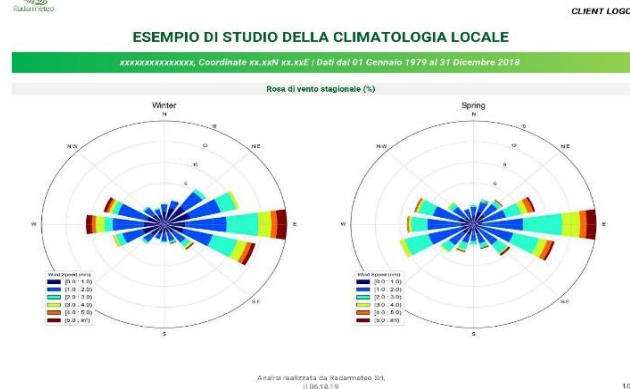
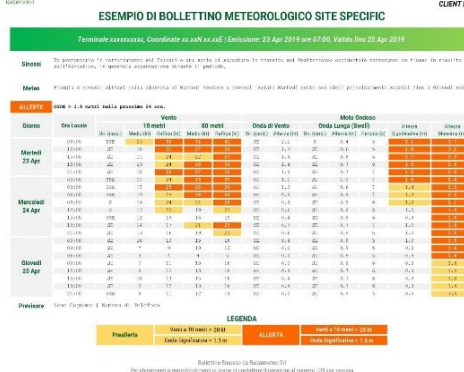
Bollettino realizzato da Radarmeteo Srl

Emissione del 01/02/2019 delle ore 12:00 - [Legenda](#)

Pagina n° 1

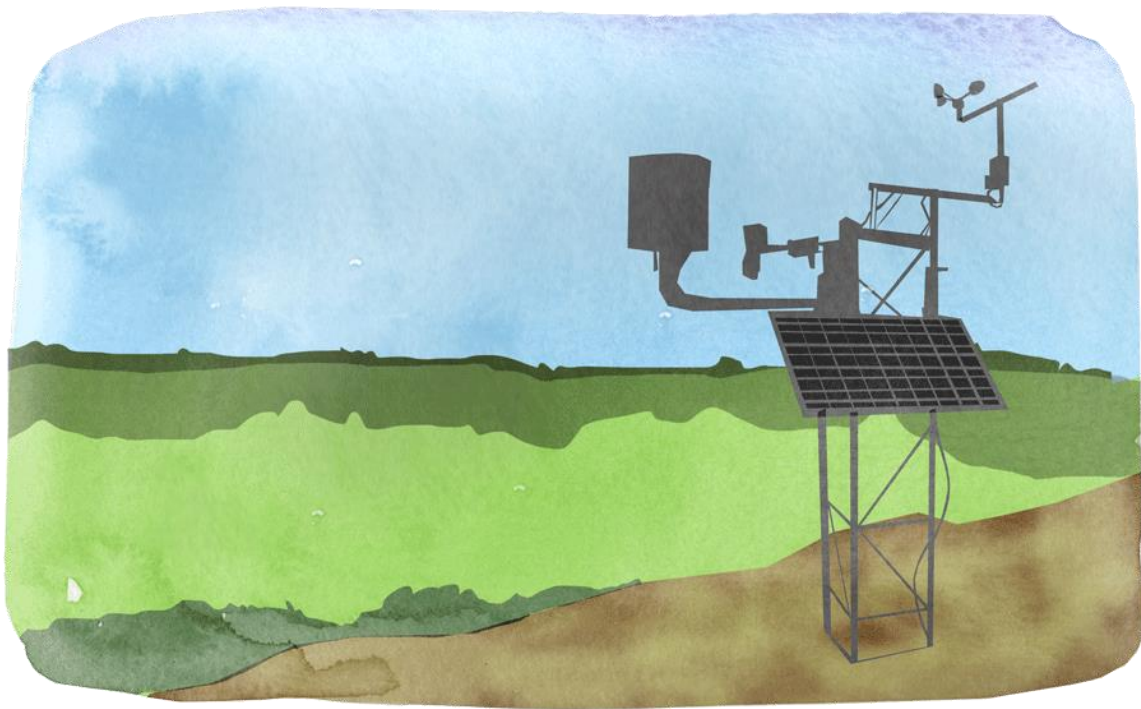
SeaCast®

- 



Designing support and certification of weather networks

- Support service in order to analyze, adjust and certificate the weather network in compliance with World Meteorological Organization (WMO) guidelines
- Designing support service for new monitoring networks or for existing networks





Historical, real-time and forecast
meteorological data on high resolution grids

Complete and homogeneous

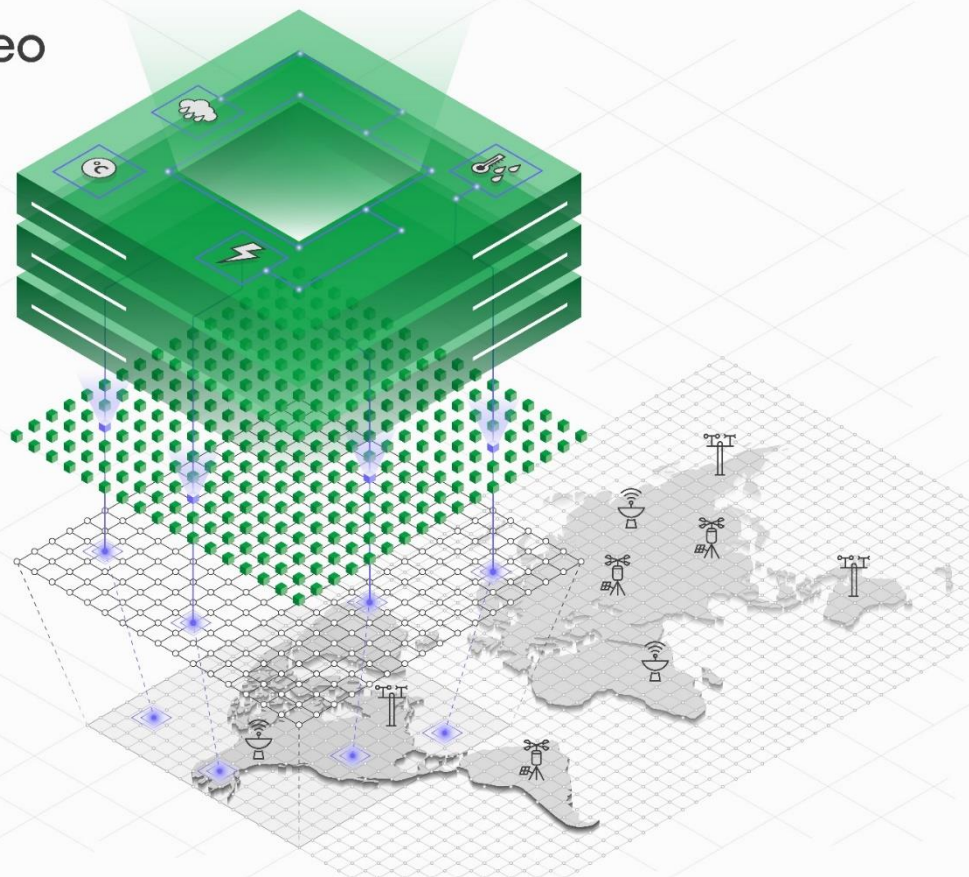
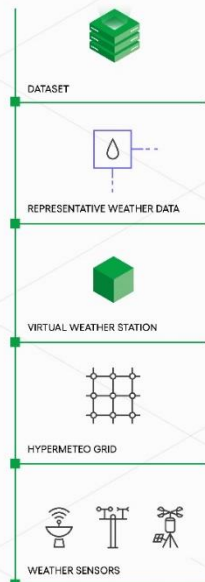
Data are provided for all
european/global territory and
are subjected to verification,
control and validation processes

Independent

Data derive from certified,
official and WMO compliant
weather monitoring networks
that meet specific quality,
objectivity and transparency
criteria.

Easily «pluggable»

Hypermeteo datasets are
developed to easily interface with
third-party services / systems /
applications.



Aggregation of value to existing open data

Use of re-analysis (or retrospective analysis) methods

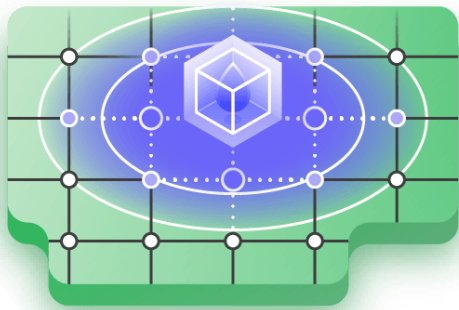
Integration of data of various types (stations, radar, lightning, satellites, ...)

High representativeness of the data on the entire globe

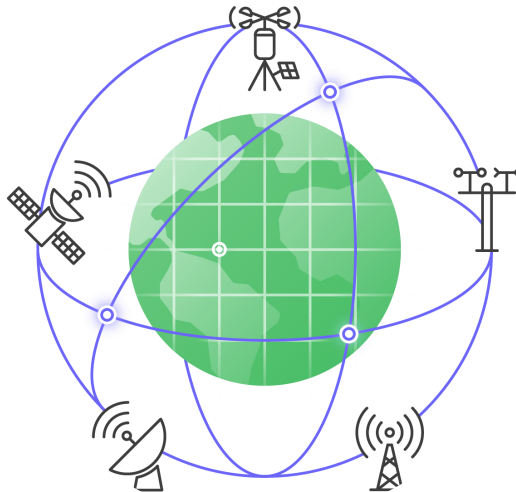
Hypermeteo



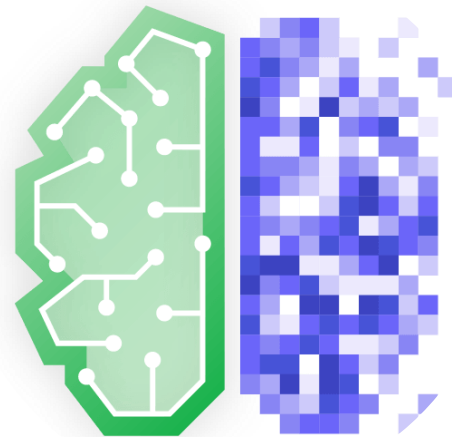
Paradigm shift



01 «Virtual» weather station



02 Data integration

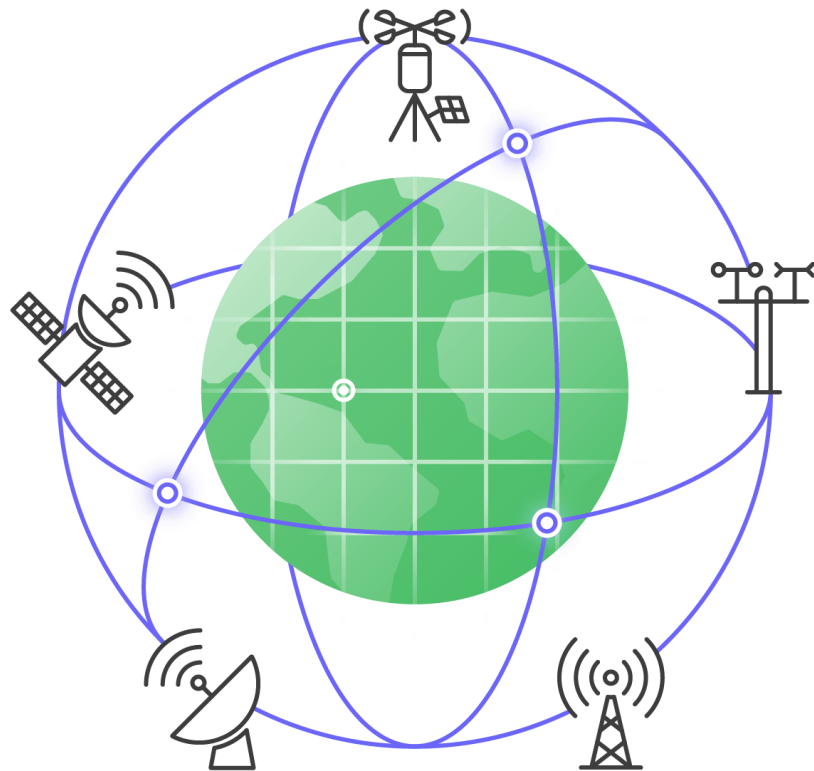


03 Machine learning

The observation set

Hypermeteo collects and archives meteorological data originating from an observation set of 11,000 sensors.

These are both public and private official WMO-compliant meteorological monitoring systems

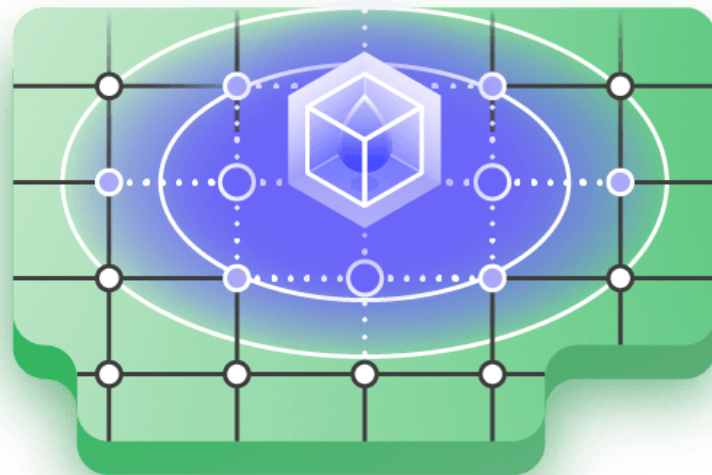


Meteorological reanalysis

Method for "re-analyzing" historical data and observations in order to develop homogeneous datasets (in space and time)

HRS – Hypermeteo Reanalysis System

Name	Spatial coverage	Spatial resolution	Temporal coverage
HRSITA_1KM	Italy	1 km	1990-today
HRS EUR_5KM	Europe	5 km	1990-today
HRS WOR_25KM	Global	25 km	1979-today



Nowcasting

Optimized forecast for the very short term (next 0-6 hours)

The main feature of the method is that it can be performed with a high refresh rate (up to 5 mins).

HNS – Hypermeteo Nowcasting System

Name	Spatial coverage	Spatial resolution	Forecast time window	Refresh rate
HNS ITA_1KM	Italy	1 km	0-6 hours	Up to 5 mins



Ensemble Multimodel Forecast

Medium-term probabilistic forecast
that exploits the simulation of
several models (up to 15/30 days)

HFS – Hypermetero Forecasting System

Name	Spatial coverage	Spatial resolution	Forecast time window	Refresh rate
HFS ITA_4KM	Italy	4 km	0-288 hrs	2 times a day
HFS EUR_12KM	Europe	12 km	0-288 hrs	2 times a day
HFS WOR_25KM	Global	25 km	0-288 hrs	2 times a day

HFS-LT – Hypermetero Forecasting System - Long Term

Name	Spatial coverage	Spatial resolution	Forecast time window	Refresh rate
HFS-LT ITA_10KM	Italy	10 km	0-720 hrs (30gg)	2 times a day

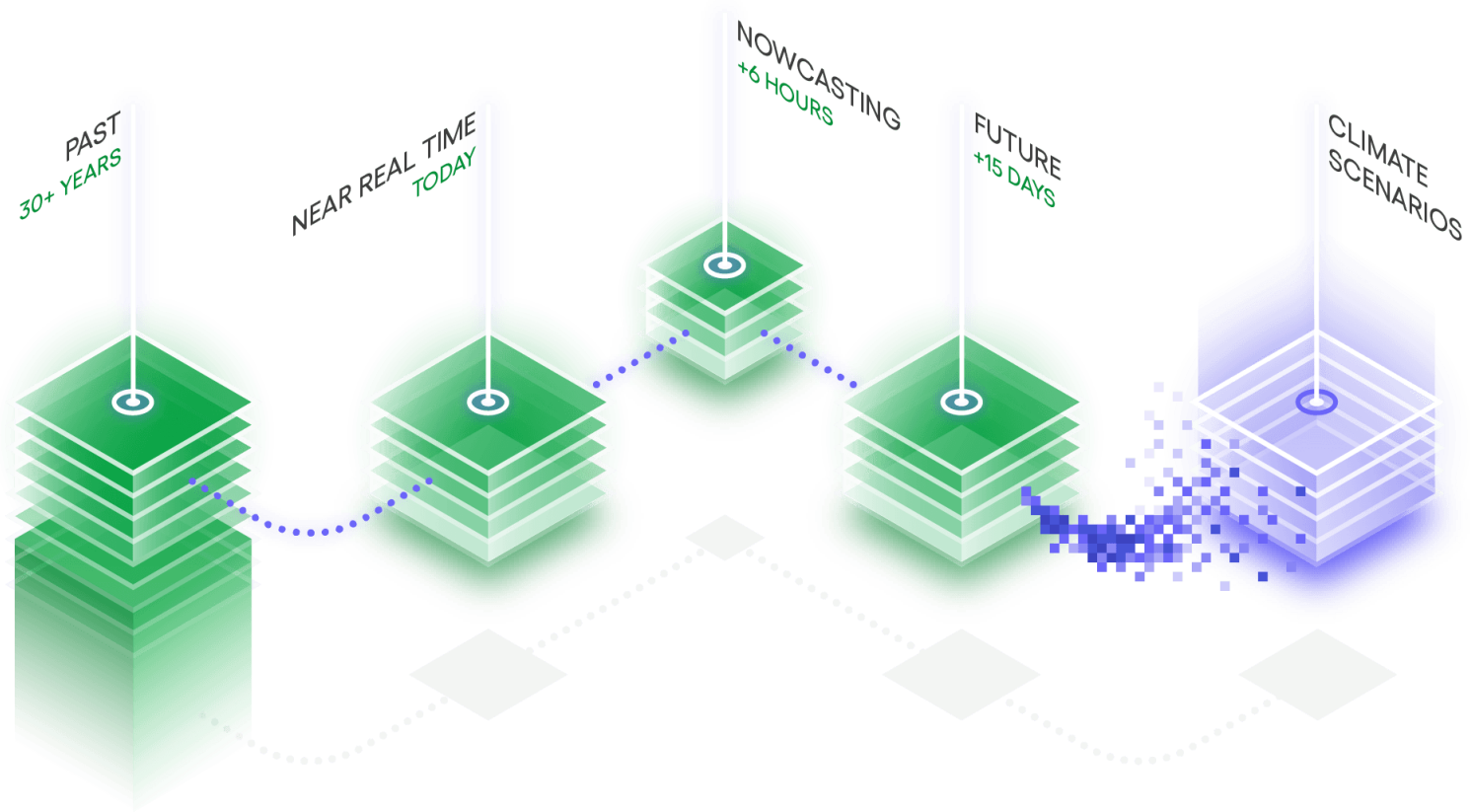


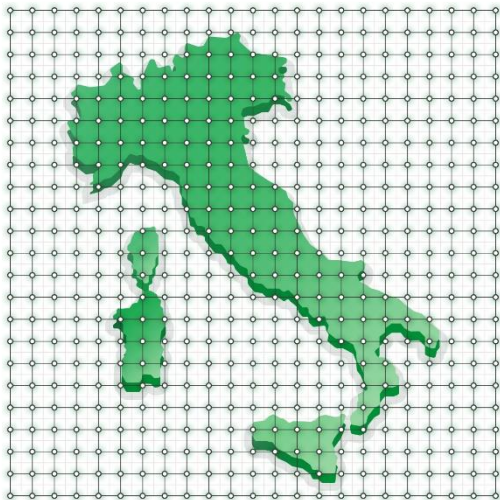
Data quality, control and validation

Procedures for:

- Increase the resolution
- To correct
- Reprocess the output variables of the reanalysis

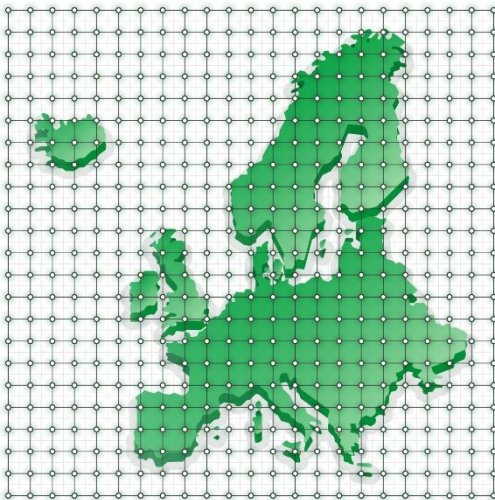






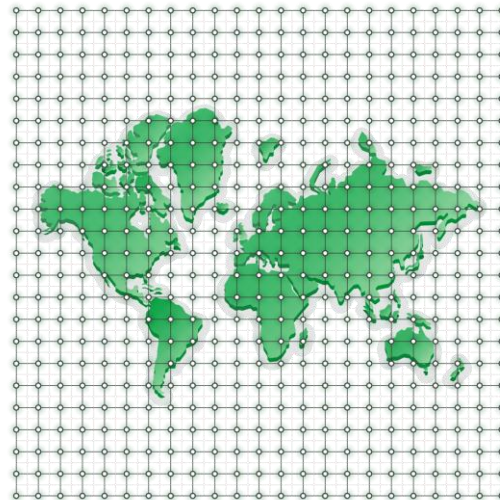
Domain Italy

Up to 1 km of spatial resolution



Domain Europe

Up to 5 km of spatial resolution



Domain World

Up to 25 km of spatial resolution

For more informations:

Andrea Chini

Chief Operating Officer

Email andreachini@radarmeteo.com

Phone +39 329 8408380

Francesco Dell'Orco

Chief Sales Officer

Email francescodellorco@radarmeteo.com

Phone +39 340 2942178

RADARMETEO S.r.l.

Via IV Novembre, 117
35020 - Due Carrare (PD)
(+39) 049 9125902

radarmeteo.com | info@radarmeteo.com

HYPERMETEO S.r.l.

Sede legale

Via Nazionale, 181
00184 – Roma (RM)

Sede operativa

Via IV Novembre, 119
35020 - Due Carrare (PD)
(+39) 049 9125902

hypermeteo.com | info@hypermeteo.com