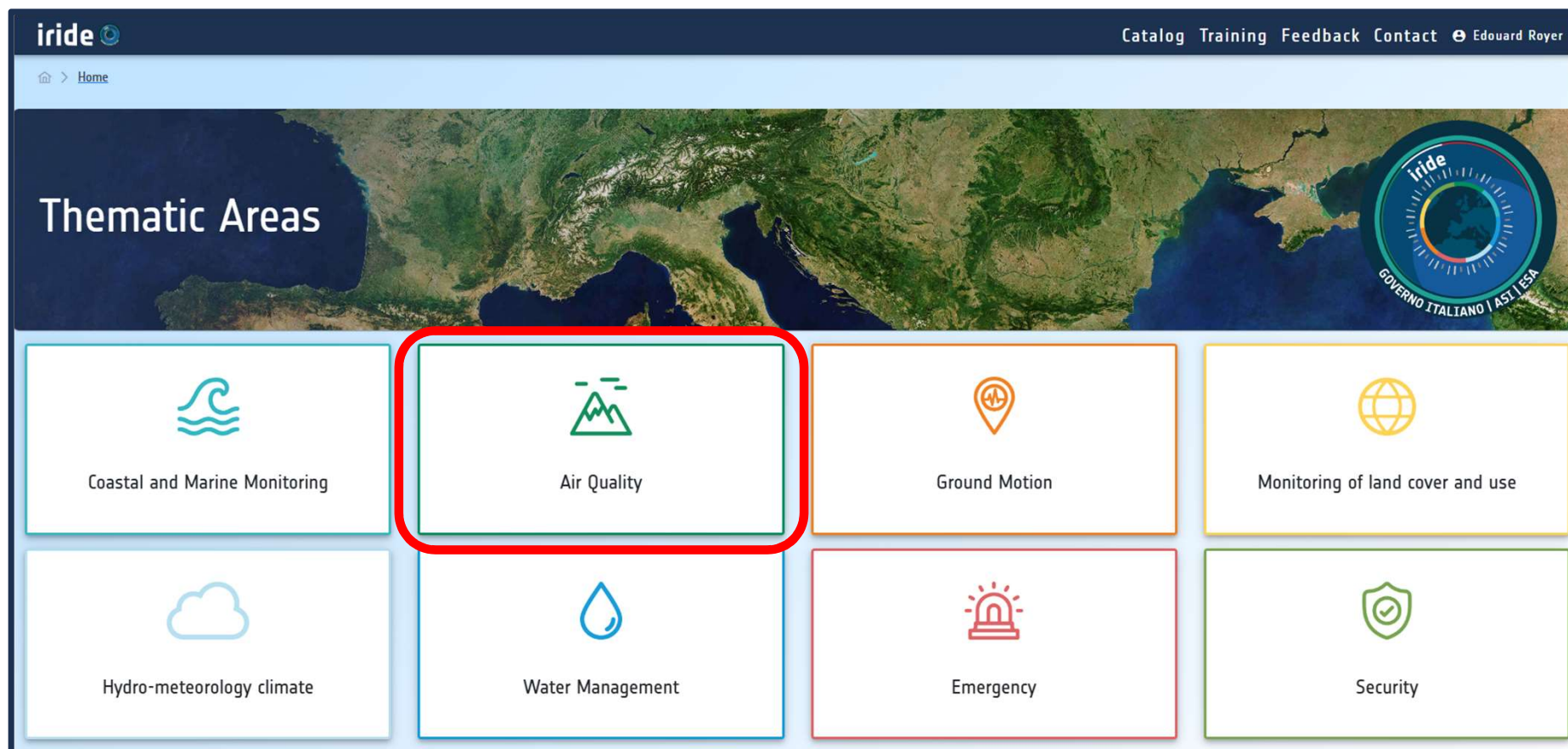


S2 – Air quality

ceriola@planetek.it



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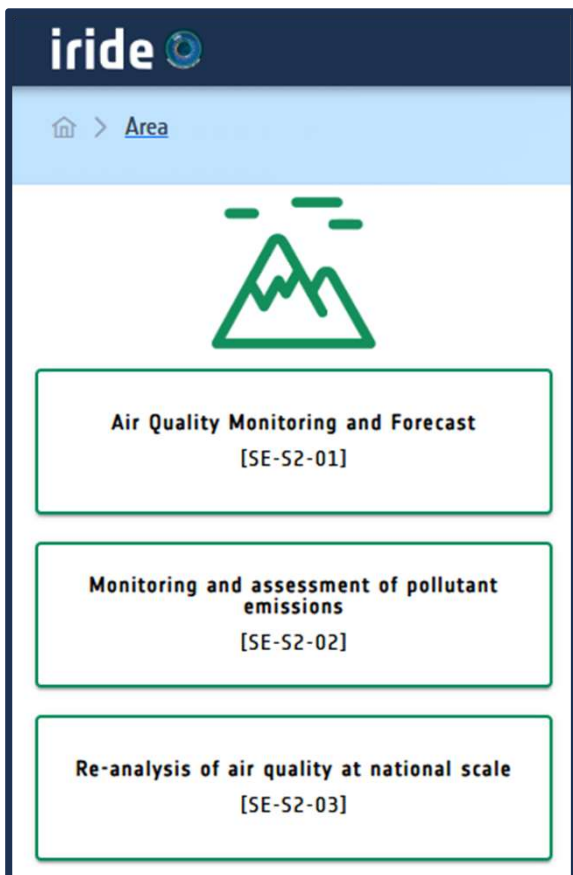


S2 – Air Quality

Servizi che **supportano tutti gli attori coinvolti nel monitoraggio e la modellazione** della qualità dell'aria.

Perché i servizi IRIDE ?

- Integrazione di tutte le tipologie di dato utile per la qualità dell'aria: **dati satellitari**, dati **in-situ** e di **modellazione**.
- **Unico punto di accesso** per un'ampia gamma di applicazioni
- **Prodotti pronti per l'immediata integrazione** negli strumenti e metodologie attualmente in uso da parte dei vari attori coinvolti (modellazione, prevenzione, pianificazione, ecc.)



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Air Quality Monitoring and Forecast



Air quality

Air Quality Monitoring and Forecast

[SE-S2-01]

Monitoring and assessment of pollutant emissions

[SE-S2-02]

Re-analysis of air quality at national scale

[SE-S2-03]

Servizio a scala italiana che integra in un unico punto d'accesso, dati di qualità dell'aria ottenuti da sensori satellitari (Sentinel-3, Sentinel-5p e IRIDE Platino) e da modellazione numerica previsionale a scala nazionale.

«Analysis Ready Data» (ARD), direttamente utilizzabili in applicazioni di web mapping, ottimizzati per l'analisi di Big Data su cloud e per l'assimilazione all'interno di modelli previsionali di qualità dell'aria.

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Monitoring and assessment of pollutant emissions



Air quality

Air Quality Monitoring and Forecast

[SE-S2-01]

Monitoring and assessment of pollutant emissions

[SE-S2-02]

Re-analysis of air quality at national scale

[SE-S2-03]

Servizio a scala italiana che integra misure di inquinanti dell'aria e aerosol, ottenute da diverse fonti, che includono satelliti di Osservazione della Terra (OT) e misure a terra.

Le misure sono fornite giornalmente come «Analysis Ready Data» (ARD), per permettere l'utilizzo immediato all'interno di strumenti di analisi e/o modellazione numerica per valutare fenomeni di trasporto degli inquinanti.

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Re-analysis of air quality at national scale



Air quality

Air Quality Monitoring and Forecast

[SE-S2-01]

Monitoring and assessment of pollutant emissions

[SE-S2-02]

Re-analysis of air quality at national scale

[SE-S2-03]

Servizio di rianalisi della qualità dell'aria su aree definite dall'utente, selezionabili nell'intero territorio italiano per fornire informazioni a supporto della comprensione dell'andamento e delle fonti di inquinamento dell'aria e della valutazione del loro effetto.

Capacità di fornire con cadenza giornaliera mappe di concentrazione inquinanti (NO_2 , O_3), particelle sottili, indice di qualità dell'aria e anidride solforosa.

Integrazione di misure da differenti fonti, inclusa la possibilità di integrare misure da sensori operati dall'utente.

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Air Quality Monitoring and Forecast

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folegani@meeo.it

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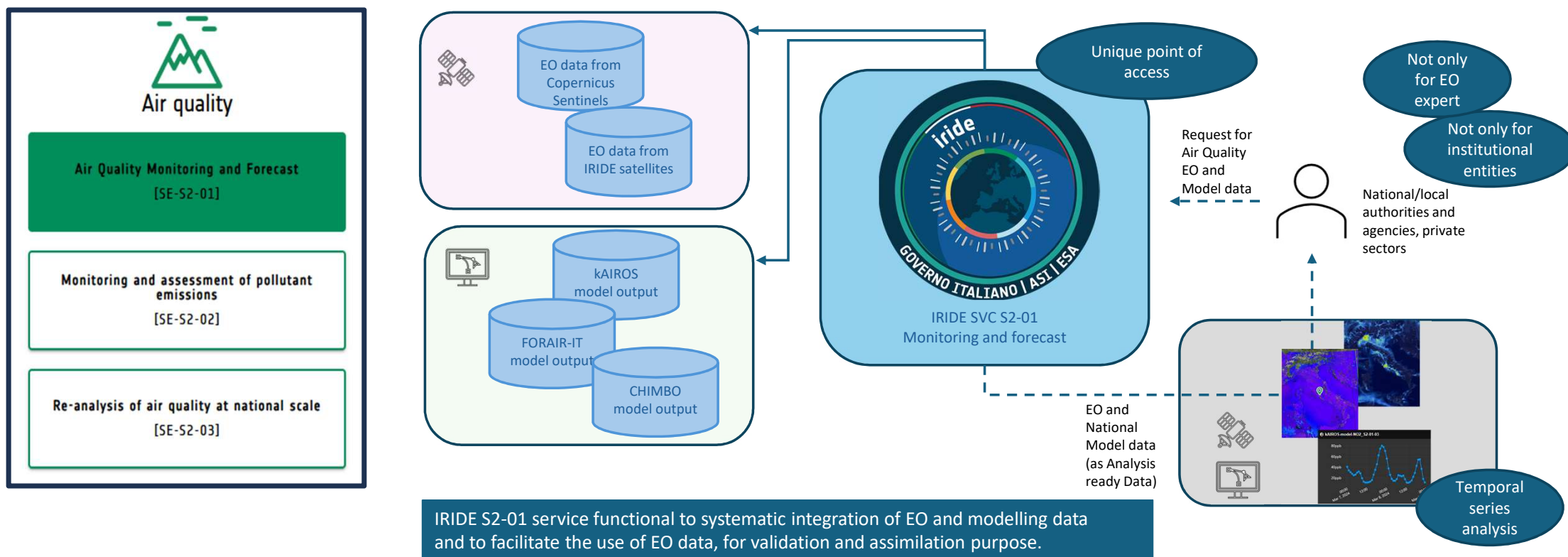
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Air Quality Monitoring and Forecast Objective



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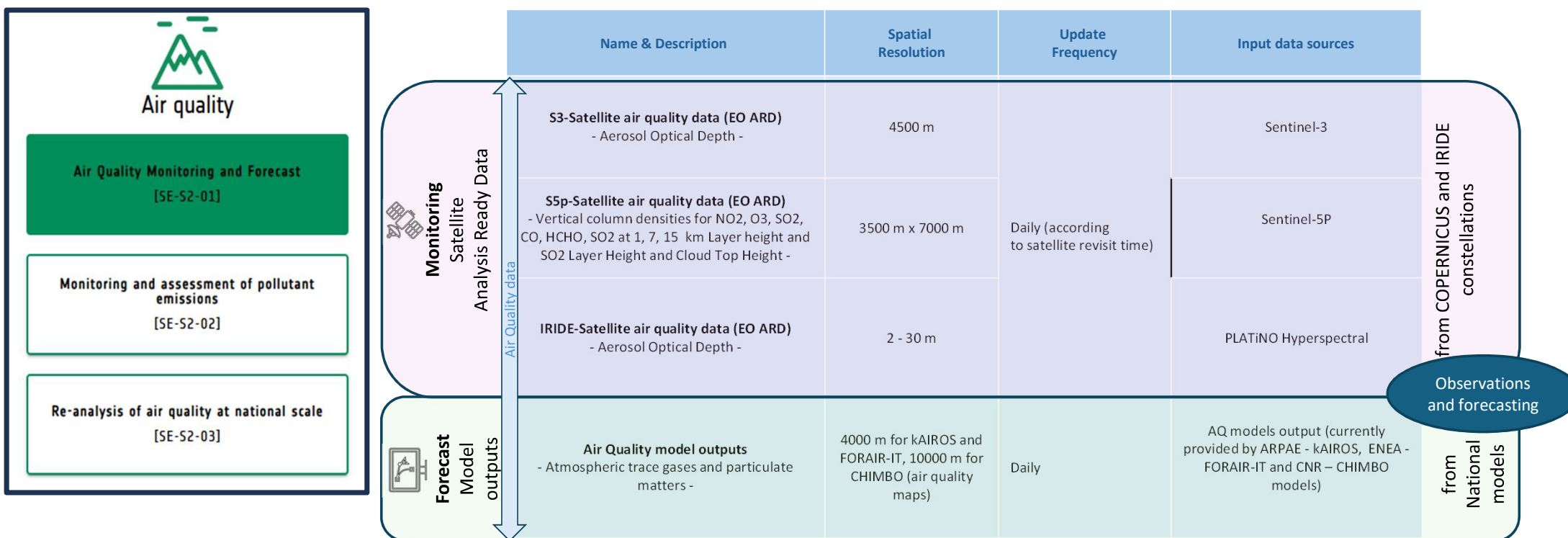


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Air Quality Monitoring and Forecast

Product overview



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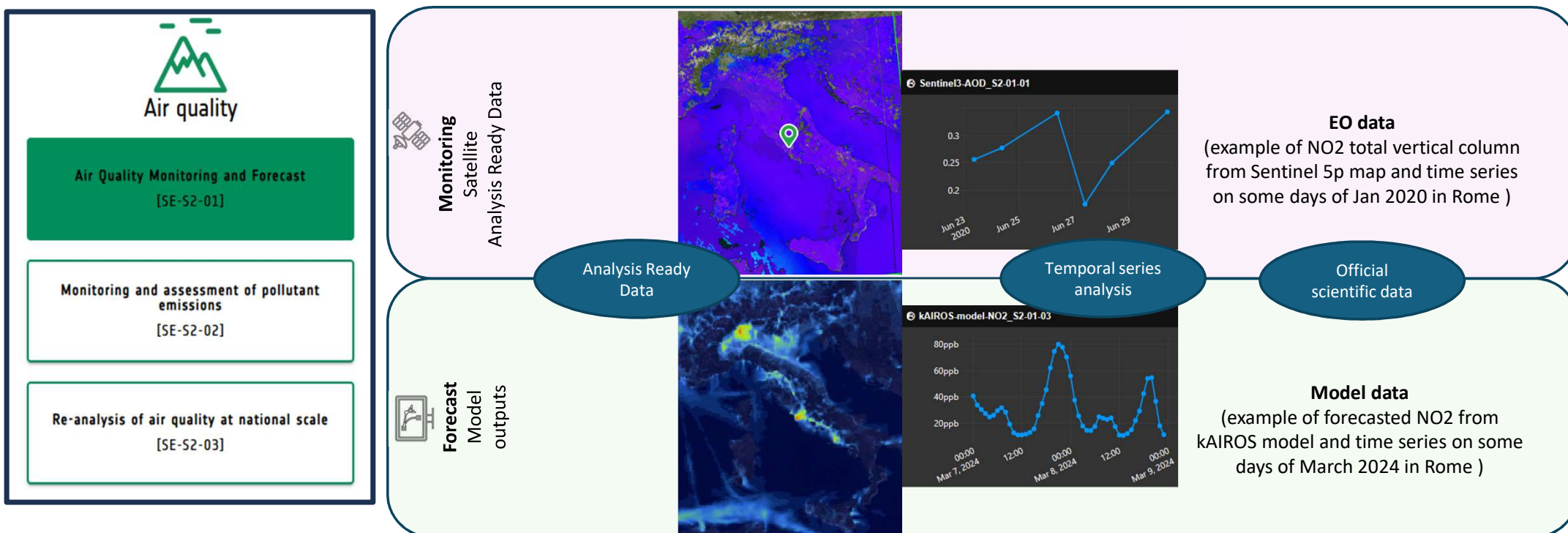


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Air Quality Monitoring and Forecast

Example of EO and Model data



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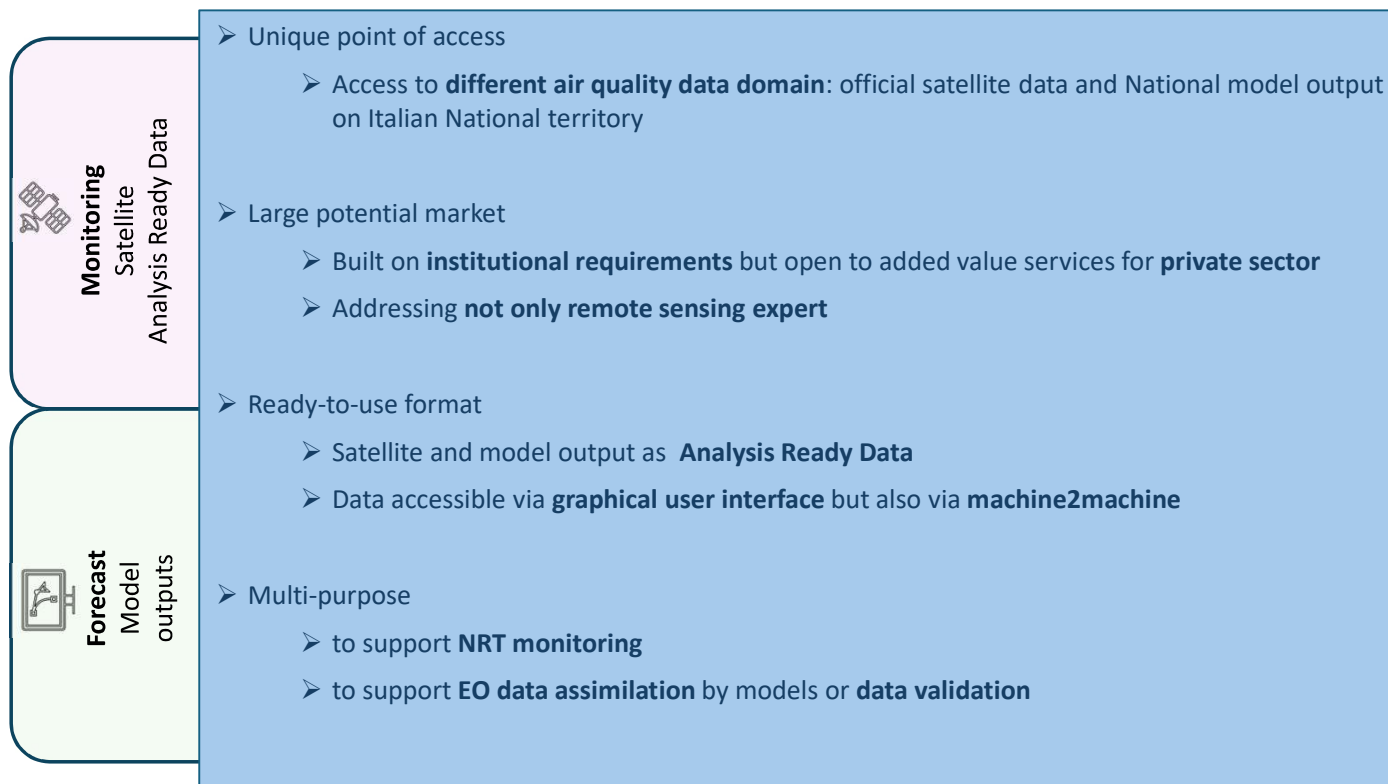
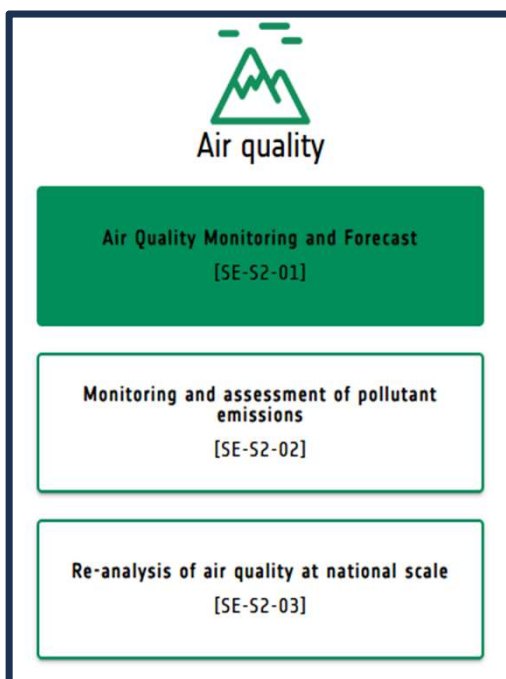


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Air Quality Monitoring and Forecast

Why IRIDE for Air Quality monitoring and forecast?



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Rianalisi di qualità dell'aria sul territorio italiano

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Re-analysis of air quality at national scale

A Next-Generation Air Quality Re-Analysis Service

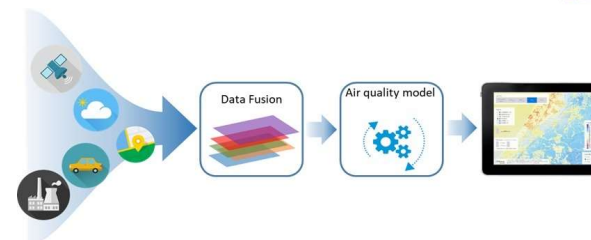
- **Innovative: broad spatial coverage @ very high resolution**



- **On-demand service**



- **Using data from multiple sources (data fusion):** EO data (CAMS), Land use data (CAMS), ERA5 (weather), OTM (traffic), EEA (ground stations)



- **Designed** for businesses, municipalities, and environmental organizations, to provide **historical insights** to enhance **decision-making** and **regulatory compliance**

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Re-analysis of air quality at national scale ^{s[&t}

Tailored to Your Needs – adapts to specific user requirements, offering:

Customizable Area of Interest (Aoi): **anywhere** in Italy

Flexible Analysis Period: **diverse years** of historical data

Products to request, high spatial and temporal resolution (.tiff and .nc files), **pollutant concentration** in $\mu\text{g}/\text{m}^3$:

- Trace Gases of **NO₂**, **O₃** & Air Quality Index (**AQI**) at **100m resolution, daily** values
- Particulate Matter (**PM10, PM2.5**) at **100m resolution, daily** values
- Sulfur Dioxide (**SO₂**) at **1km resolution, daily** values

Data Integration Capabilities: Users can supplement satellite-based insights with their own ground-based sensor data for enhanced accuracy



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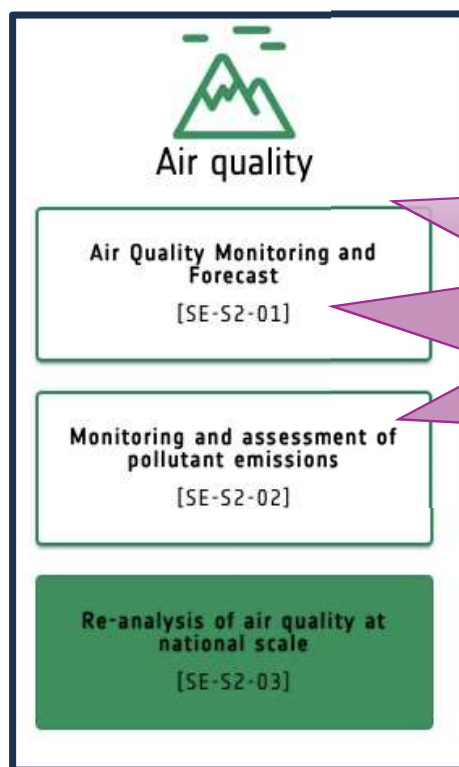


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Re-analysis of air quality at national scale

Why Choose the service



Data-Driven Decision Making: Gain an edge with high-resolution **environmental intelligence**, optimizing urban planning, industrial operations, and **environmental compliance**.

Advanced Automation & Efficiency: Automated workflow, ensuring rapid delivery of insights while maintaining precision and reliability

Scalability & Multi-Region Support: Successfully deployed across **landscapes**, from metropolitan hubs to rural areas. It can be activated across **multiple locations** simultaneously, supporting industrial and governmental applications.

Optimized Model Performance: The service leverages AI-driven **calibration** using European Environmental Agency (EEA) ground station data. The system is fine-tuned to achieve **optimal accuracy**, ensuring a **minimal margin of error**.

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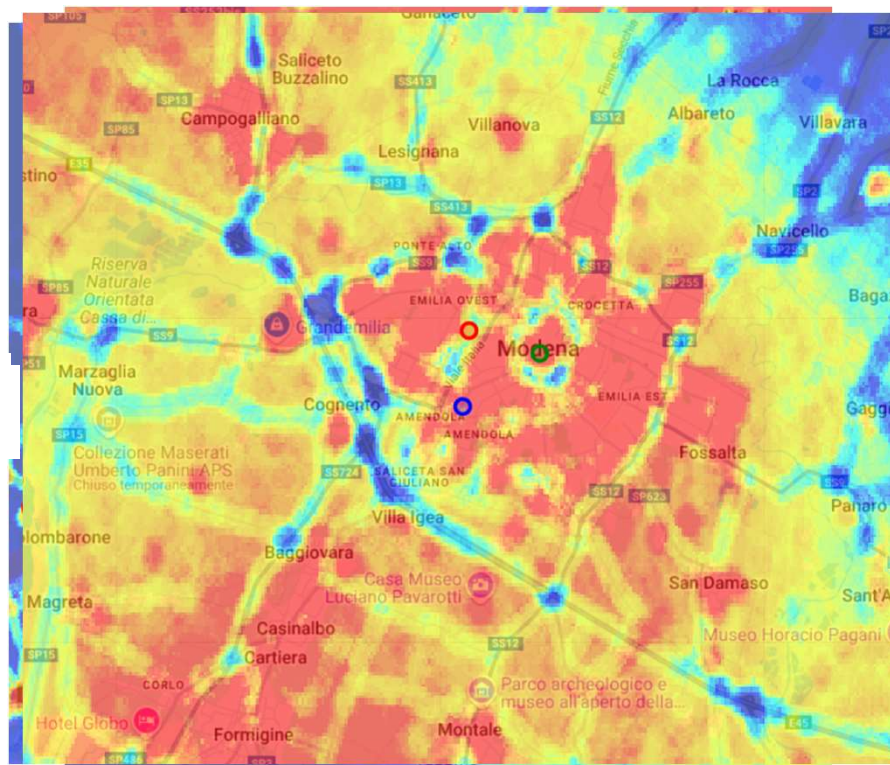
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Re-analysis of air quality at national scale

Some Samples of Products: Roma, Bologna, Modena



Roma, PM10
Modena, PM2.5



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Re-analysis of air quality at national scale ^{s[&t}

Transform Data into Action

The service empowers organizations with **high-fidelity air quality insights**, supporting:

- ✓ **Environmental Impact Assessments**
- ✓ **Urban & Industrial Air Quality Management**
- ✓ **Regulatory Compliance & Reporting**
- ✓ **Public Health & Risk Mitigation Strategies**

Whether you're a municipality, an industry leader, or an environmental consultant, this service provides the precision and flexibility you need.



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Monitoring and assessment of pollutant emissions

Massimo Valeri, Serco

massimo.valeri@serco.it

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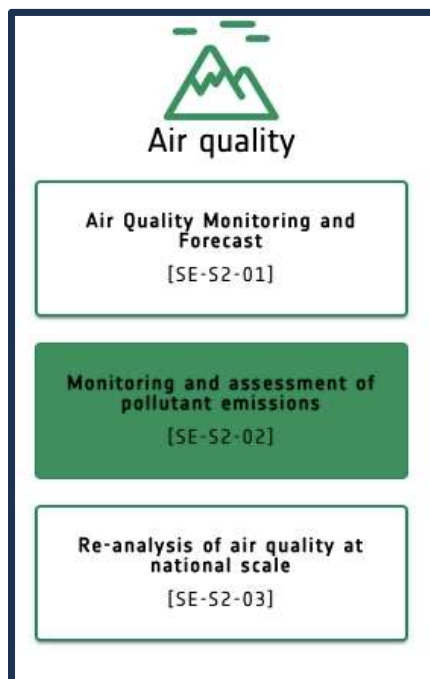
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Monitoring and assessment of pollutant emissions



The air quality thematic domain is offering services for supporting **all the actors** involved in **air quality monitoring and modelling**.

The SVC S2-02 provides a **stack of complementary information on pollutants and aerosol** presence in the atmosphere over a set of points of interest.

The S2-02 output products are **automatically** generated **daily** across the **Italian territory**.

The S2-02 output products exploit information from air quality **satellite L2** products, ground-based **remote sensing networks** products and **in-situ** observations.

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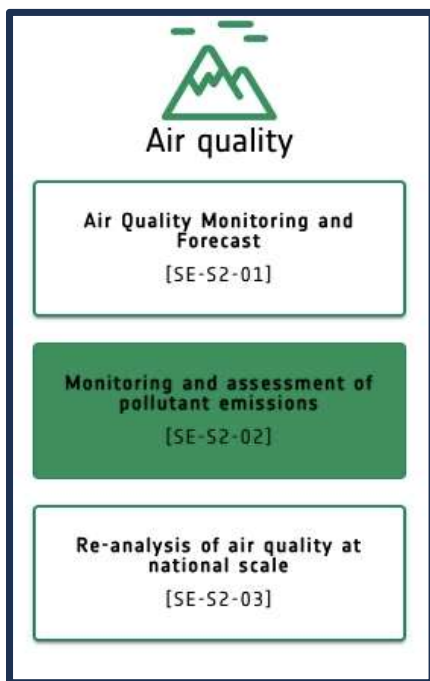


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Monitoring and assessment of pollutant emissions

Stack of information on pollutants and aerosol presence from:



➤ Satellites

- **Sentinel-5p**: air pollutants (e.g., nitrogen dioxide, ozone) columnar content
- **MODIS MAIAC**: Aerosol presence and properties
- **PRISMA** (and **PLATiNO**, once available): Aerosol presence and properties

➤ Ground-based networks

- **PGN**: air pollutants (e.g., nitrogen dioxide, ozone) columnar content
- **AERONET**: Aerosol presence and properties

➤ In-situ stations

- **ISPRA-SNPA**: air pollutants (e.g., nitrogen dioxide, ozone) and aerosol (PM2.5 and PM10) concentrations

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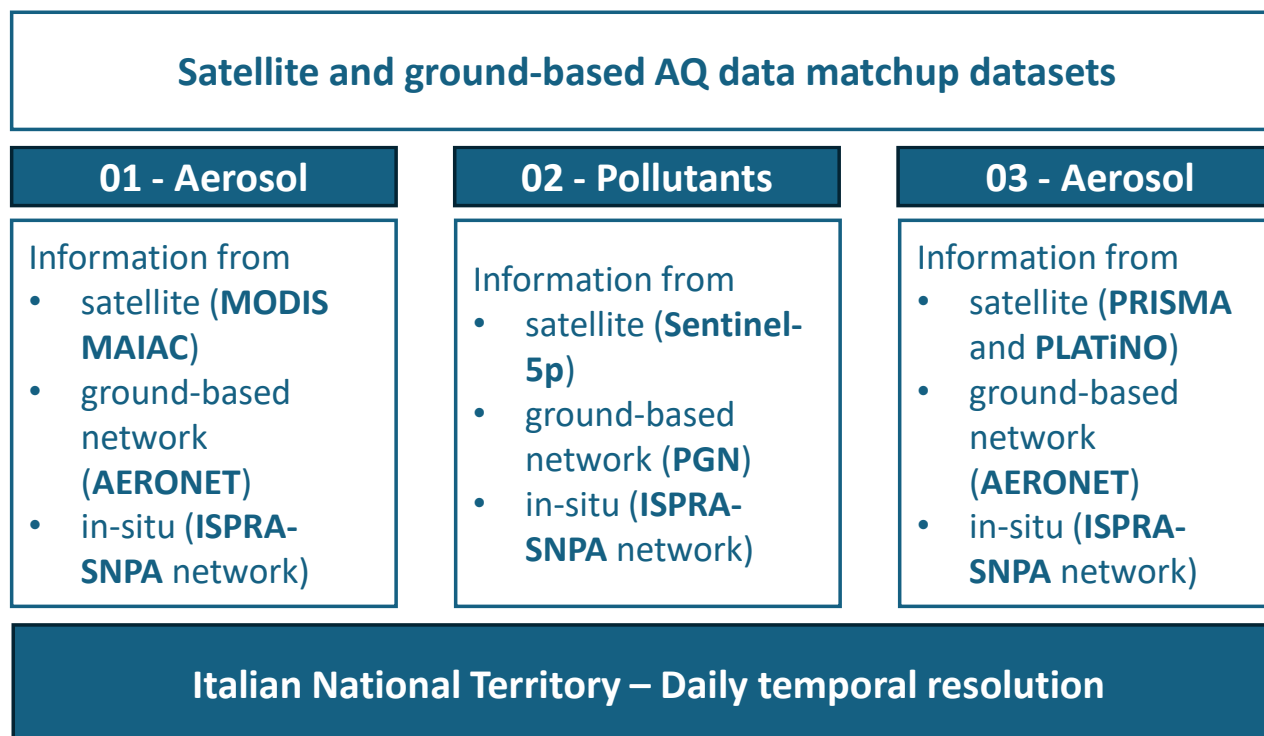
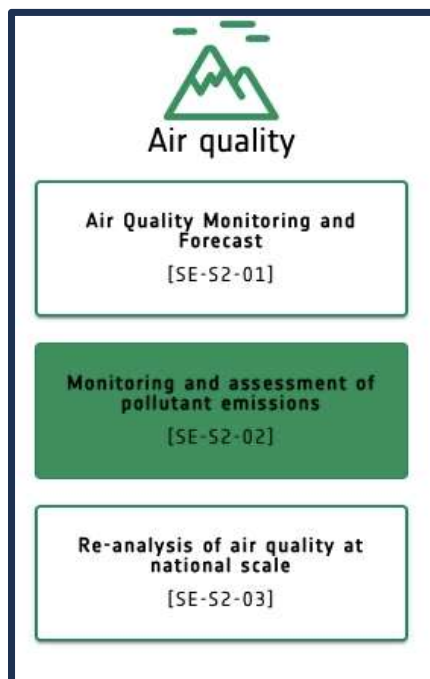
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Monitoring and assessment of pollutant emissions



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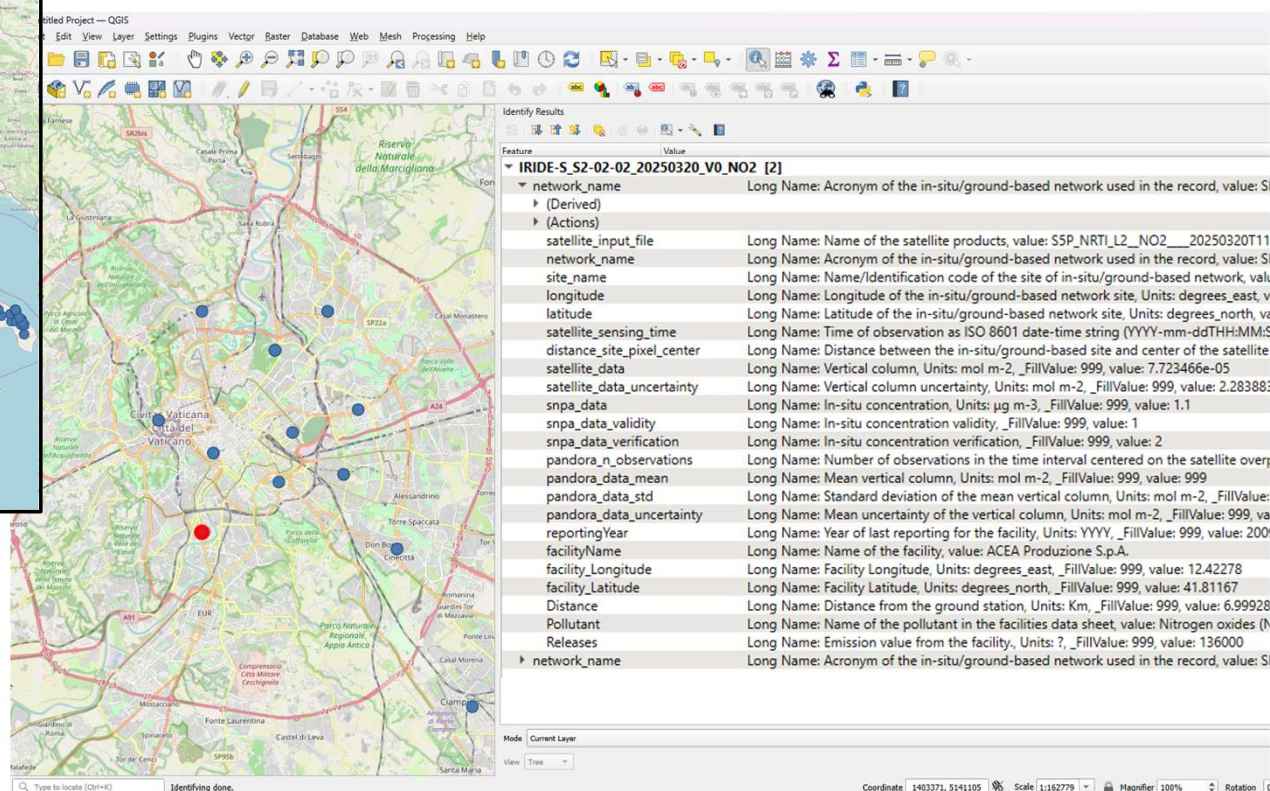
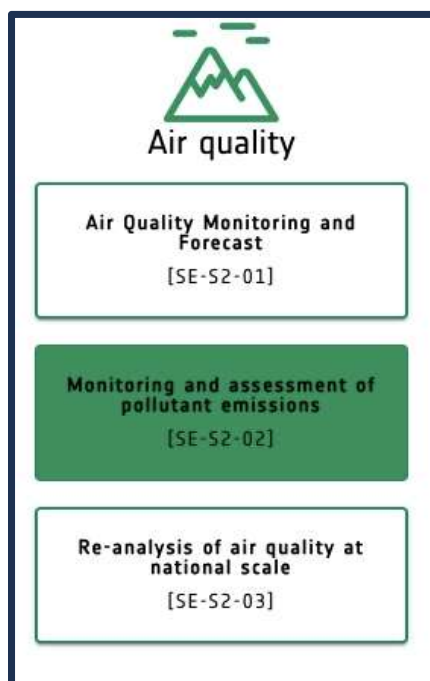


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S2-02

Example of OU-S2-02-02 NO₂ product for March 20, 2025



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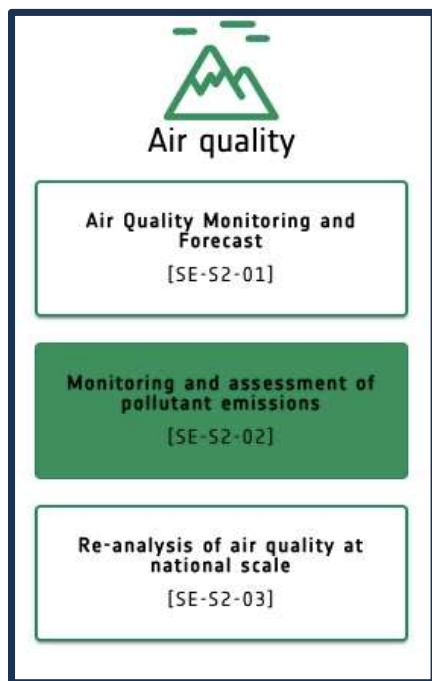


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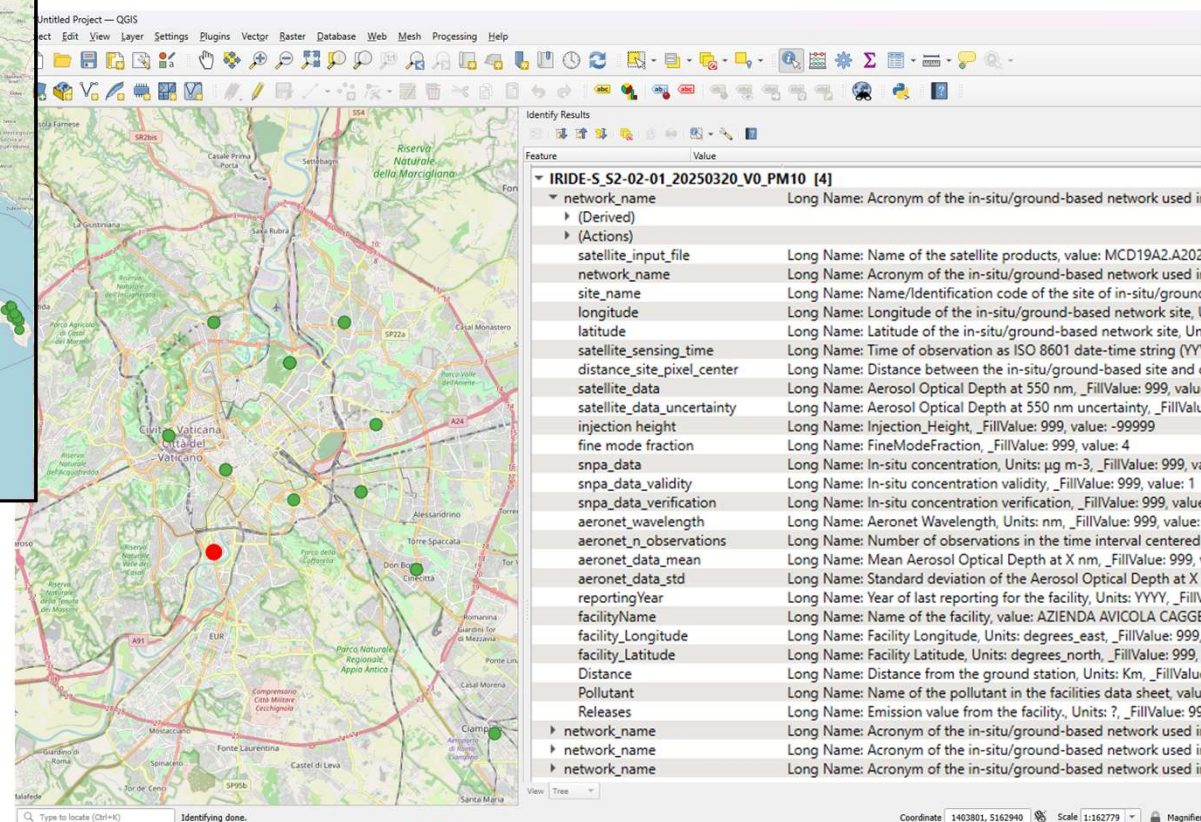


S2-02

Example of OU-S2-02-01 PM10 product for March 20, 2025



Integration of PRISMA and PLATiNO (once available) products for generating similar aerosol matchup products (OU-S2-02-03)



About the IRIDE constellation. The IRIDE constellation is a programme of the European Union – Next GenerationEU funded by the Presidency of the Council of Ministers of the Italian Republic, pursuant to Article 1, paragraph 25A, of the Italian Law 160/2019 and Funded by the Presidency of the Council of Ministers from the Complementary Fund carried out under an ESA Contract for the purposes of EQ PNRR IRIDE PROGRAMME.

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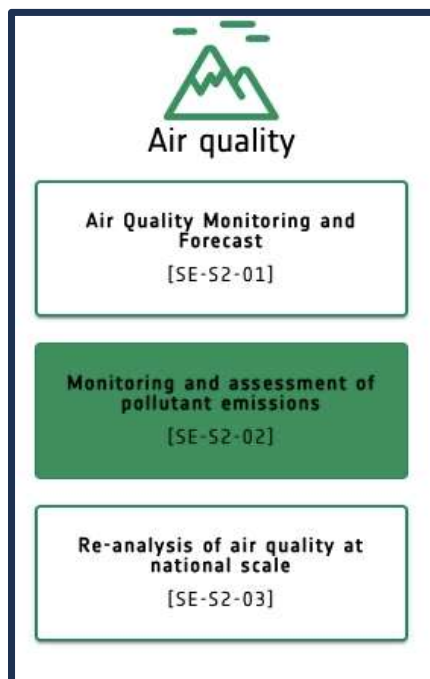
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Monitoring and assessment of pollutant emissions



Conclusions and added values

- Fully **automated** processing and data distribution
- **Daily** products across the **entire Italian territory**
- Support **all the actors** involved in **air quality monitoring and modelling**
- **Fostering and simplifying access** to air quality information **from different sources**
- Information on pollutants and aerosol presence in a **unique set of products**

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