



Italian National Agency for New Technologies,
Energy and Sustainable Economic Development

ENEA

Activities on air quality modeling

Fairmode Plenary Meeting

Rome - Italy, March 2-3 2023

Antonio Piersanti, Mihaela Mircea

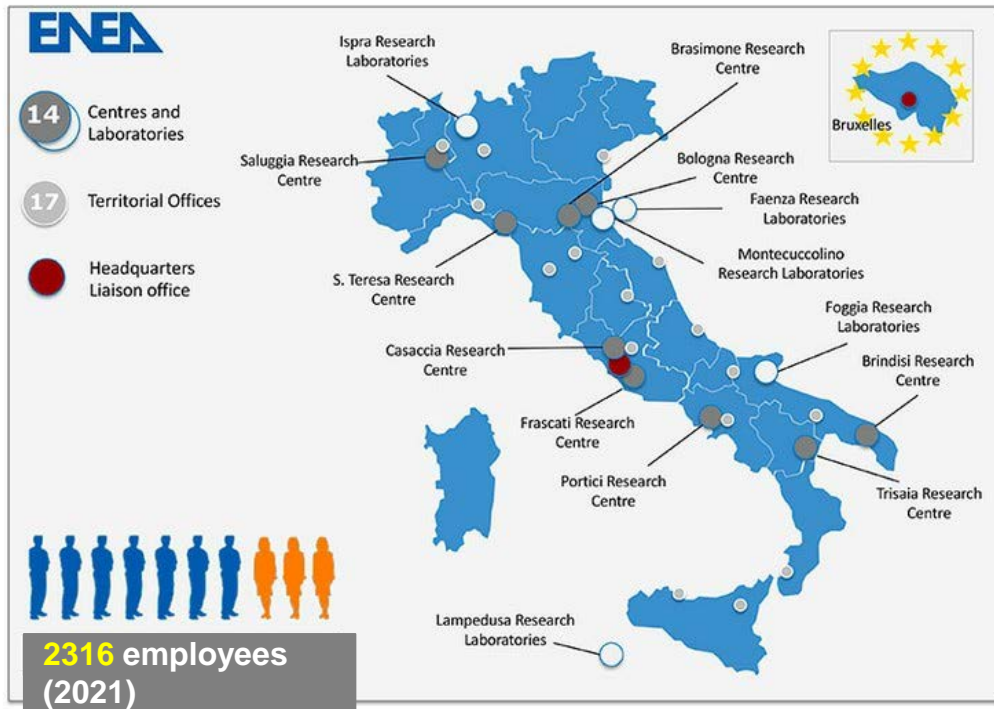


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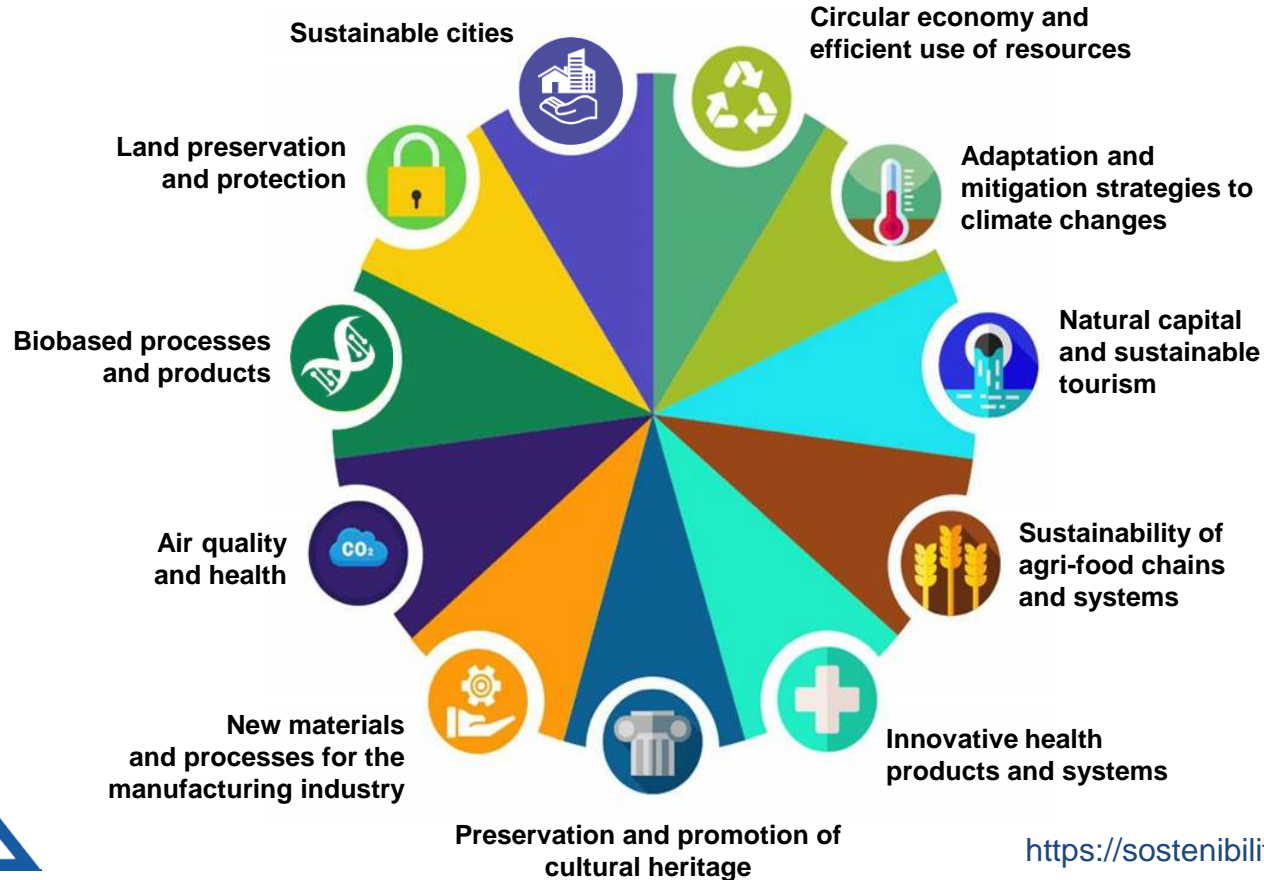


ENEA is the **National Agency for New Technologies, Energy and Sustainable Economic Development**, a public body aimed at research, technological innovation and the provision of advanced services to enterprises, public administration and citizens in the sectors of energy, the environment and **sustainable economic development** (article 4, Law no. 22 of 28 December 2015).

ENEA's mission is to contribute to Italy's competitiveness and sustainable development by conducting research and technology development activities in support of Public Administration, companies, particularly SMEs, and citizens.



Department of Sustainability (SSPT)

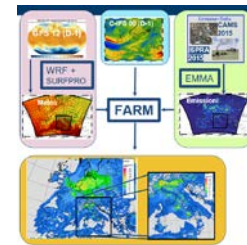
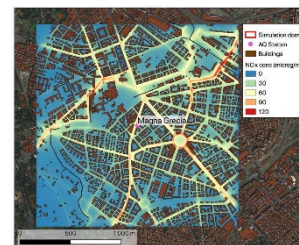


Division Models and Technologies for Risks Reduction (SSPT-MET)

- numerical models describing the interactions between GHGs emissions, **atmospheric pollution**, climate change, energy and technological scenarios: Earth System modelling, Regional Climate Modelling, operational forecasts
- impacts on the national economic system and society, for supporting adaptation and mitigation strategies: climate services, effects on human health, vegetation and cultural heritage
- characterization of seismic input, anti-seismic technologies, geomatics techniques and geomorphological risk analysis for environment and cultural heritage protection

Atmospheric Pollution Lab. (SSPT-MET-INAT) and AQ-IA modeling

- experimental activities regarding chemical transformation of gases and aerosols in the troposphere, chemical and physical characterization of atmospheric particulate matter
- **development of models for simulating the concentration and deposition fields of air pollutants at different scales - from national/continental scales to street canyons**
- **integrated modeling approaches allowing to evaluate the efficiency and cost-effectiveness of possible emission reduction strategies**
- **evaluation of impacts of air pollution on human health, ecosystems and cultural heritage**

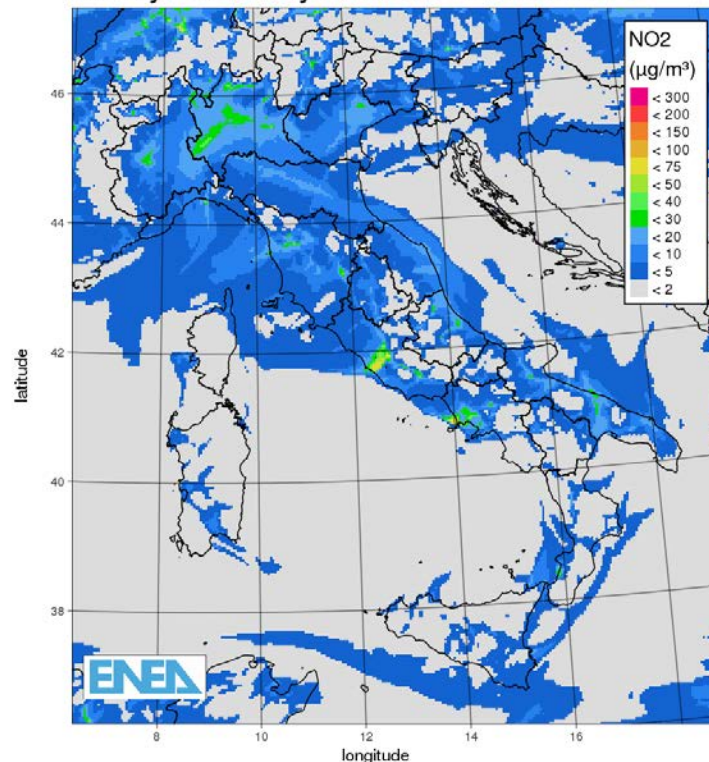


Atmospheric Pollution Lab. (SSPT-MET-INAT) and AQ-IA modeling

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- Mihaela Mircea ser
- Antonio Piersanti (

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Validity: Thursday 2023-03-02 00:00 UTC



Atmosphere
Monitoring Service



Joint Research Centre

FAIRMODE

Atmospheric Pollution Lab.



Antonio Piersanti



Mario Adani



Gino Briganti



Andrea Cappelletti



Lina Vitali



Ilaria D'Elia



Massimo D'Isidoro



Maurizio Gualtieri



Teresa M. G. La Torretta



Antonella Malaguti



Mihaela Mircea



Ettore Petralia



Felicita Russo



Milena Stracquadiano



Giovanni Vialetto



Maria Gabriella Villani

Fairmode Plenary Meeting – the organizing team



Mihaela Mircea



Ilaria D'Elia



Sonia Pirozzi



Lina Vitali



Antonio Piersanti

Welcome to Rome!

For any request, ask us!