Project outputs

RIAT+, a software tool

to support local authorities in designing and assessing efficient air quality plans.

RIAT+ application

to Emilia Romagna (IT) and Alsace (FR) and assessment of air quality plans in these two regions.

A register

collecting technical and non-technical emission reduction measures.

A full documentation, workshops and courses

to support new users implementing the methodology to other European regions.

A standardized set of quantitative indicators

to monitor the action plans effectiveness.

Guidelines

for local administrations and environmental agencies to integrate local planning to national and European air quality policies.

Partners

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CNRS (FR)

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In cooperation with JRC (EC)

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Opera

Operational Procedure for Emission Reduction Assessment

Air Pollution remains one of the most important environmental issue in Europe as confirmed with the adoption by the European Parliament of the resolution on the Thematic Strategy on Air Pollution which aims to attain levels of air quality that do not give rise to significant negative impacts on human health and environment.

In agreement with the EU Strategies (*) for air quality OPERA objectives are:

Set-up a methodology to assist local (sub-national) authorities in:

- preparing, implementing and monitoring air quality plans to reduce population exposure to PM_{10}, NO_X and O_3 pollution and ecosystems exposure to NO_X and O_3;
- integrating regional air quality plans with national and European plans;
- assessing the synergies between actions to reduce the burden of poor air quality and actions to limit climate change impacts.

Develop an integrated assessment tool (RIAT+)

The tool will support the Authority to select air quality effective policies, following the proposed methodology:

- Identify the area or the subarea suffering by unacceptable air quality conditions,
- Determine the criterion for judging alternative policies (e.g., minimum cost, maximum air quality, etc)
- Define the feasible actions (enforce a given cleaning technology, tax emissions, ...)
- Use the system up to several times to determine different alternative solutions.

RIAT+ will be modular, user friendly, efficient (helping the user to find the best solution in a reasonable time), with an open-source approach. The results will be visualized by a GIS.

(*) EU Thematic Strategy for air quality COM(2005) 446) and the DIRECTIVE 2008/50/EC of 21 May 2008 on ambient air quality and cleaner air for Europe