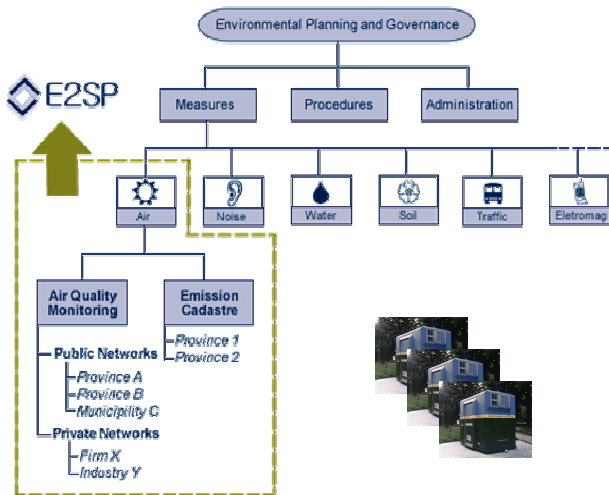


E²SP objective is to provide innovative and effective services about air quality management to all actors operating in environmental monitoring, planning, governance and assessment activities all over Europe, by creating service centres acting as Environmental Application Service Providers.

An ASP is a third-party entity that manages and distributes software-based services and solutions to customers across a wide area network from a central data centre and E²SP is a way for environmental agencies and companies to outsource some or almost all aspects of their information technology needs. E²SP is Vertical Market ASP, providing support to environmental actors and industries.

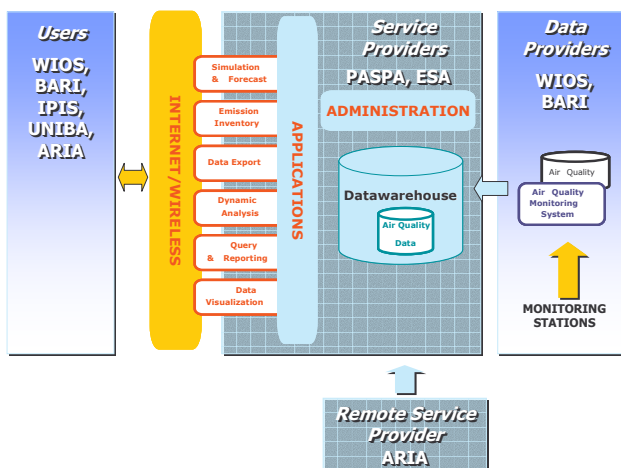
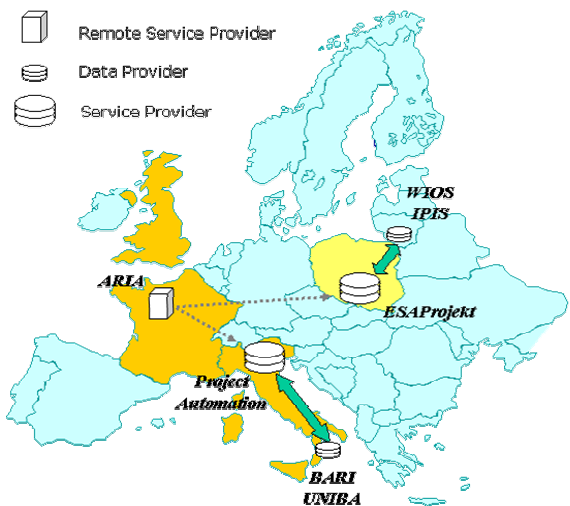
The final objective of E²SP project is to define the commercial deployment of multilingual, interactive, web-based environmental data management.



E²SP target users are the Environmental Agencies, industries, educational and research centres, environmental consultancy firms.

The project, funded by eTEN program, involves partners representing a relevant “panel” of operators in Air Quality area:

- **Regional and Local Agencies:** Regional Environmental Inspectorate of Silesia (WIOS, Poland), Municipality of Bari (Bari, Italy).
- **Research and Educational:** University of Bari (Uniba, Italy), Academy of Science (IPIS, Poland).
- **Industrial environmental partners:** Project Automation (*coordinator*, Italy), ESAPROJEKT (Poland),
- **Environmental industries (air pollution modelling) :** Aria Technologies (France).
- **Business partners:** Sineura (Italy), GL2006 (UK).

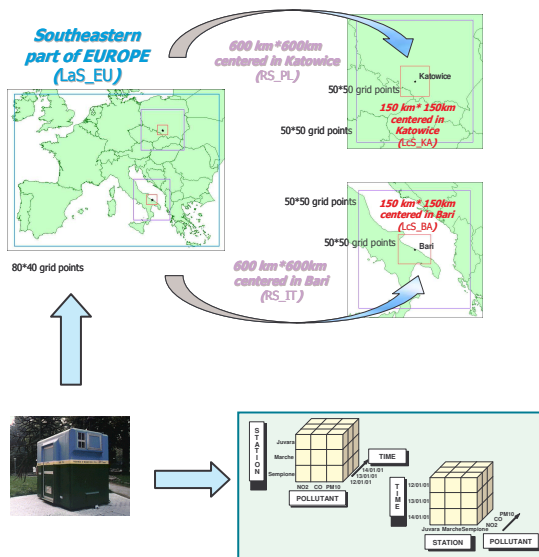
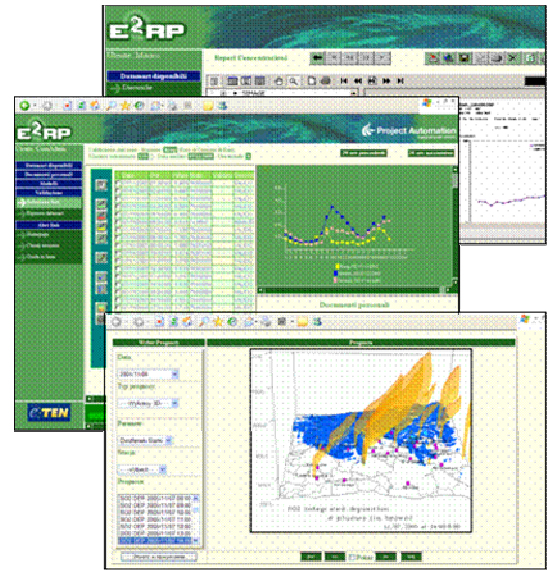


E²SP services offer Internet-based user interfaces for:

- Environmental data hosting
- Configurable query & reporting
- Air quality data visualization
- Air quality data analysis
- Air quality data validation
- Data export in XML format
- Emission inventories display
- Modelling and forecast of air pollution concentrations
- Geo-referenced and thematic representation
- Knowledge management & information retrieval
- Environmental portal
- Content management

Service architecture for online reporting and forecasting is based on the cost effective Application Service Provide model, and takes into consideration the mandatory issues of compliance of produced reports and data analysis to national legislation and data quality constraints. Air quality services in E²SP are currently supplied by two pilot service centres in Italy (Monza, at Project Automation premises) and Poland (Katowice, at Esaprojekt premises).

Data from Bari and Silesia air pollution monitoring networks and laboratories are extracted and stored via ETL procedures in the service centres datawarehouses. Collected data are typically hourly average values both for pollutants and meteorological parameters from networks supervision centres.



The acquired data are also sent to the remote service provider in Paris (Aria), that uses them as initial conditions together with meteorological inputs from MM5 model, to generate pollution and deposition forecasts for the next 48 hours, through mathematical models (CHIMERE, SPRAY, FARM) running on remote modelling servers. The results are sent to E²SP systems via Internet, where they are integrated in the E²SP datawarehouses and presentation layers.

The environmental operators remotely access E²SP Environmental Information System and related environmental decision support tools via Internet. The only additional requirement to existing infrastructure is a common data connection via modem or ADSL.

The online reporting and decision support services start from the same real time data available at users side.

Because these data are usually validated in the agencies according to specific validation protocols, the online reporting services generate reports starting from officially validated data, so compliant with regulation in terms of quality of data. Where no validated data are available, the user can validate them according to the validation protocols by using the data validation panel integrated in E²SP.

E²SP will be an enabling eGovernment service platform capable to foster trans-boundary initiative, both between different countries and between different regions and administrations in the same country.

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