



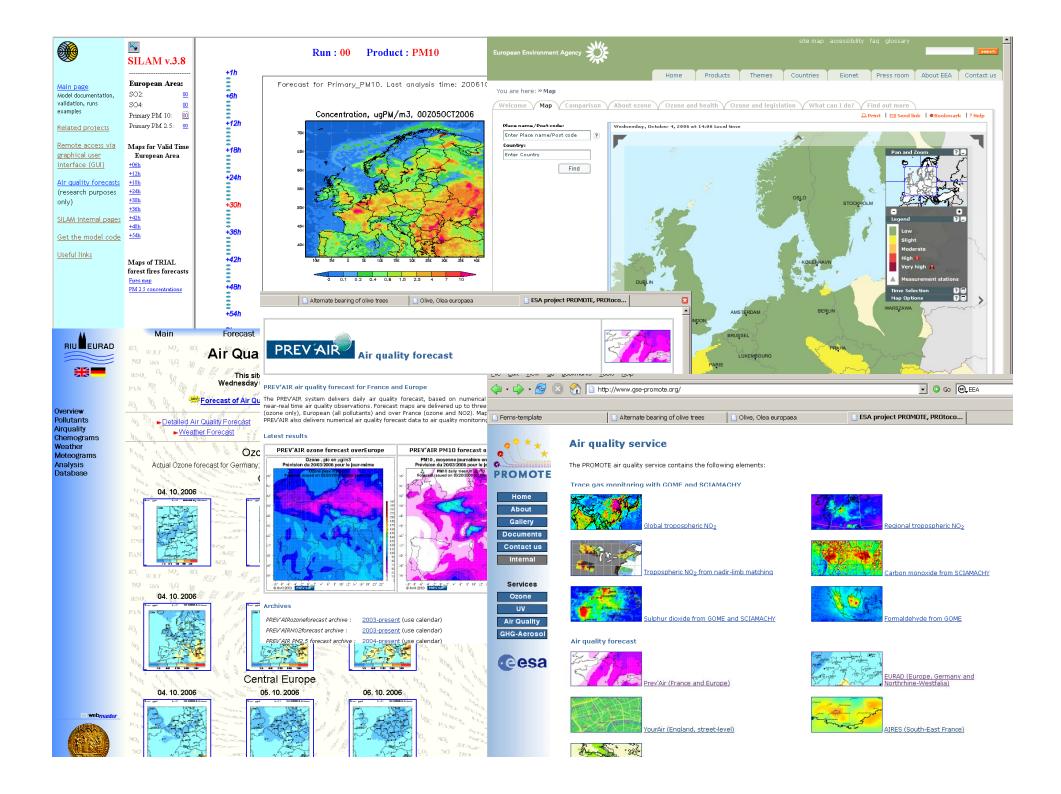
COST ES0602:

Towards a European Network on Chemical Weather Forecasting and Information Systems

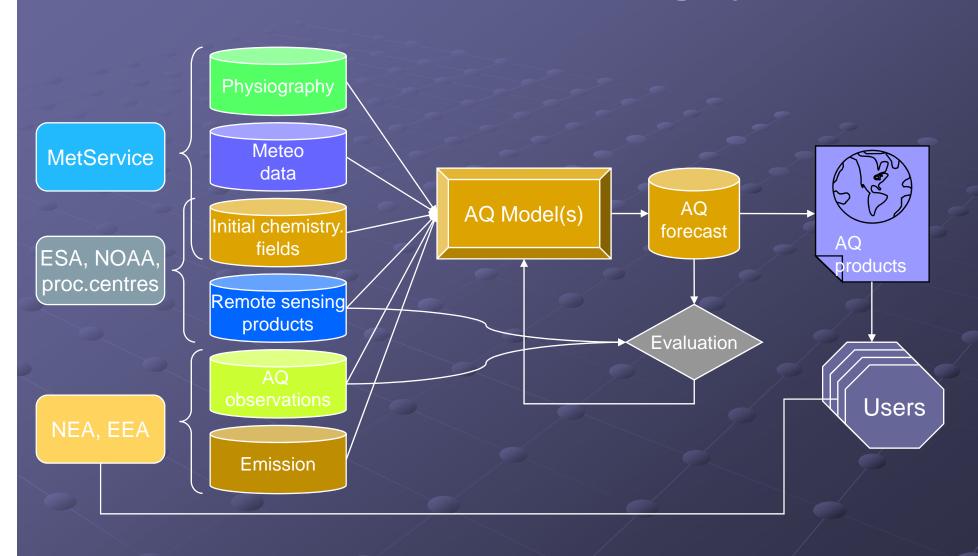
Chair: Jaakko Kukkonen, Finnish Meteorological Institute

Vice-chair: Konstantinos Karatsas, Aristotle Univ., Thessaloniki

http://www.chemicalweather.eu



Motivation (2): structure of AQ forecasting system

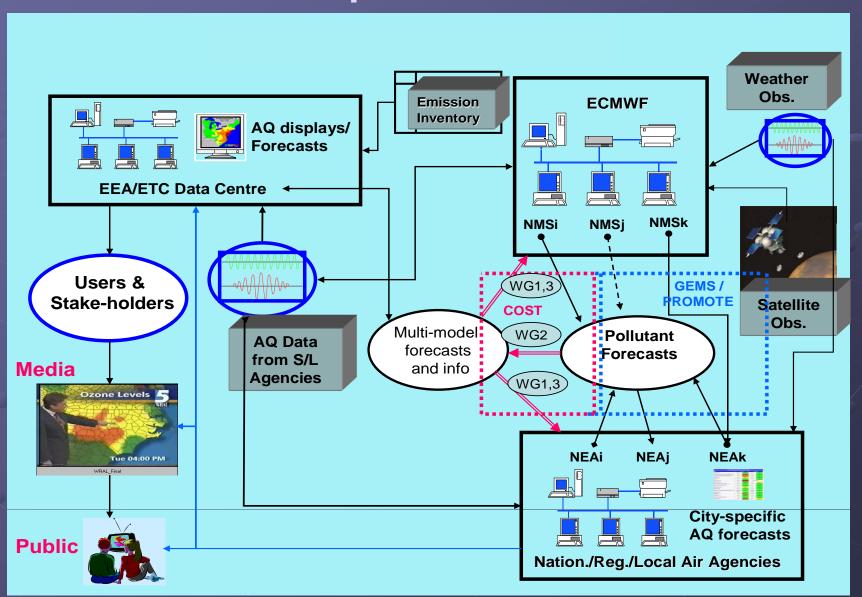


Objectives

To setup a forum for benchmarking, harmonizing and developing approaches and practices for chemical weather forecasting network and near-real-time information systems in Europe.

- Identify needs for the optimisation and harmonization of exchange of AQ data & integration of modelling systems;
- Find out the gaps of existing knowledge and practices;
- Review the potential for and means of multi-model ensemble and chemical data assimilation;
- QA/QC criteria for CW forecasting systems;
- Assess visualisation and dissemination platforms, arrangements, formats and protocols;
- Build up on current systems, enhance cooperation and coordination between providers, operators, and users for improving the science and application of CW forecasting;
- Establish and/or strengthen links with similar ongoing national and international activities and dedicated projects

ENCWF: scope and interactions



Scientific Programme

- WP1. Exchange of AQ forecasts and input data (Kjetil Torseth, NILU):
 - requirements on data exchange frequency, formats, existing infrastructure. Combining forecast data and NRT observations in a single system. Provisions for quality checks.
- WP2. Multi-scale forecasting, multi-model ensemble, boundary data (Mikhail Sofiev, FMI)
 - Multi-model AQ assessments and forecasting. QA/QC issues.
 Ensemble. Feasibility of emission scenarios (short term abatement).
 Multi-scale CW forecast and assessment
- WP3. Dissemination and visualization (Kostantinos Karatsas, AUT):
 - Dissemination of AQ information to users. What to display, harmonization possibilities: separate pollutants vs. AQ index. Inventory of national systems, other activities and organisations.
- A cross-cutting activity: to coordinate with other organizations (EEA, EUMETNET/WG-ENV, WMO, etc.) and ongoing activities (GEMS, PROMOTE).

Time table, Management, Dissemination

- Phase 1: Planning, operational arrangements, establishment of WGs and inventory activities (year 1);
- Phase 2: Main assessment, benchmarking and development work to be conducted by all WGs (years 2, 3);
- Phase 3: Final conclusions and recommendations to be formulated in reports and final publications (year 4).

Participation / contributions: EoC

Web-site: continuous updating: reports & selected results

Workshops with proceedings;

Dedicated attention to relevant international organisations concerning the process, solutions and outreach in order to achieve a broader impact, e.g.: the UN-ECE, WMO, EEA, DG-ENV, ...

Participants

- From each country:
 - one met-service delegate to MC
 - one environmental agency (or other AQ forecast provider) delegate to MC
- EEA
- Key on-going European activities in the field
 - GEMS (Global and regional Earth-system Monitoring using Satellite and in-situ data), lead by ECMWF
 - involvement of WMO through ECMWF
 - PROMOTE (Near-Real-Time delivery of the satellite products of GMES system), project of ESA lead by DLR
 - involvement of ESA