



<http://aqmeii.jrc.ec.europa.eu>



Air Quality Evaluation International Initiative (AQMEII)

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European Commission - Joint Research Center
Institute for Environment and Sustainability



ies

JRC
EUROPEAN COMMISSION



Environment
Canada

Environnement
Canada

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Sustainability

- Air quality model validation as essential process on model development and improvement
- Air quality models are important assets of the decision making process on emission regulation and definition of air quality standards

AQMEII's foci:

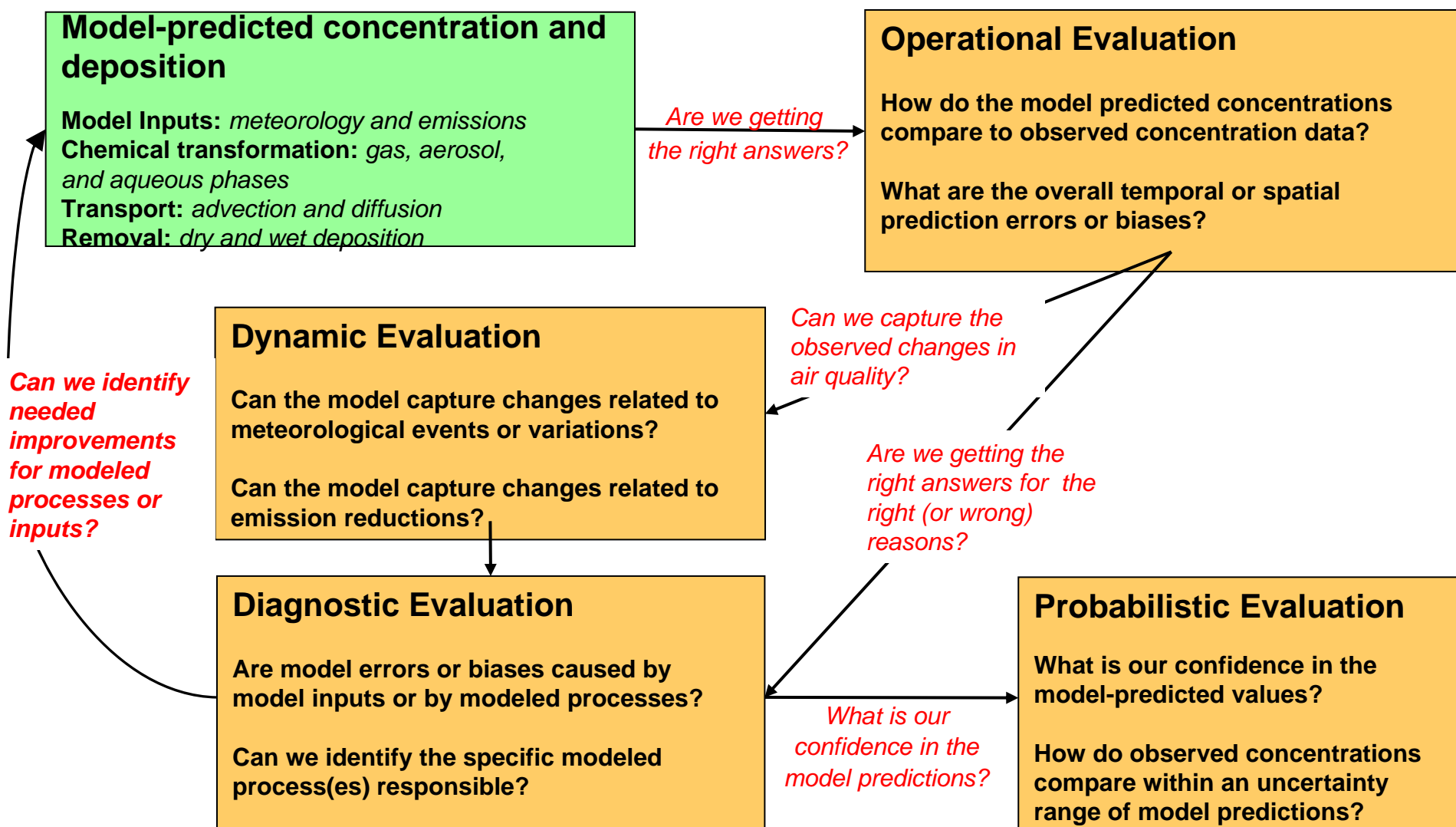
Evaluation of regional scale air quality models
Development of a common evaluation framework
Bridging North American and European modeling communities

- Activity supported by JRC-IES, US-EPA, Environment Canada, DG-RTD and DG-ENV
- May 2009: JRC-IES organizes the Stresa workshop. In depth analysis of the four evaluation streams defined by AQMEII and starting the definition of the a the first activity involving the two communities



Stresa workshop:

- Definition of the four model evaluation streams
- Research gaps within each theme + priorities
- Preliminary definition of the first practical activity

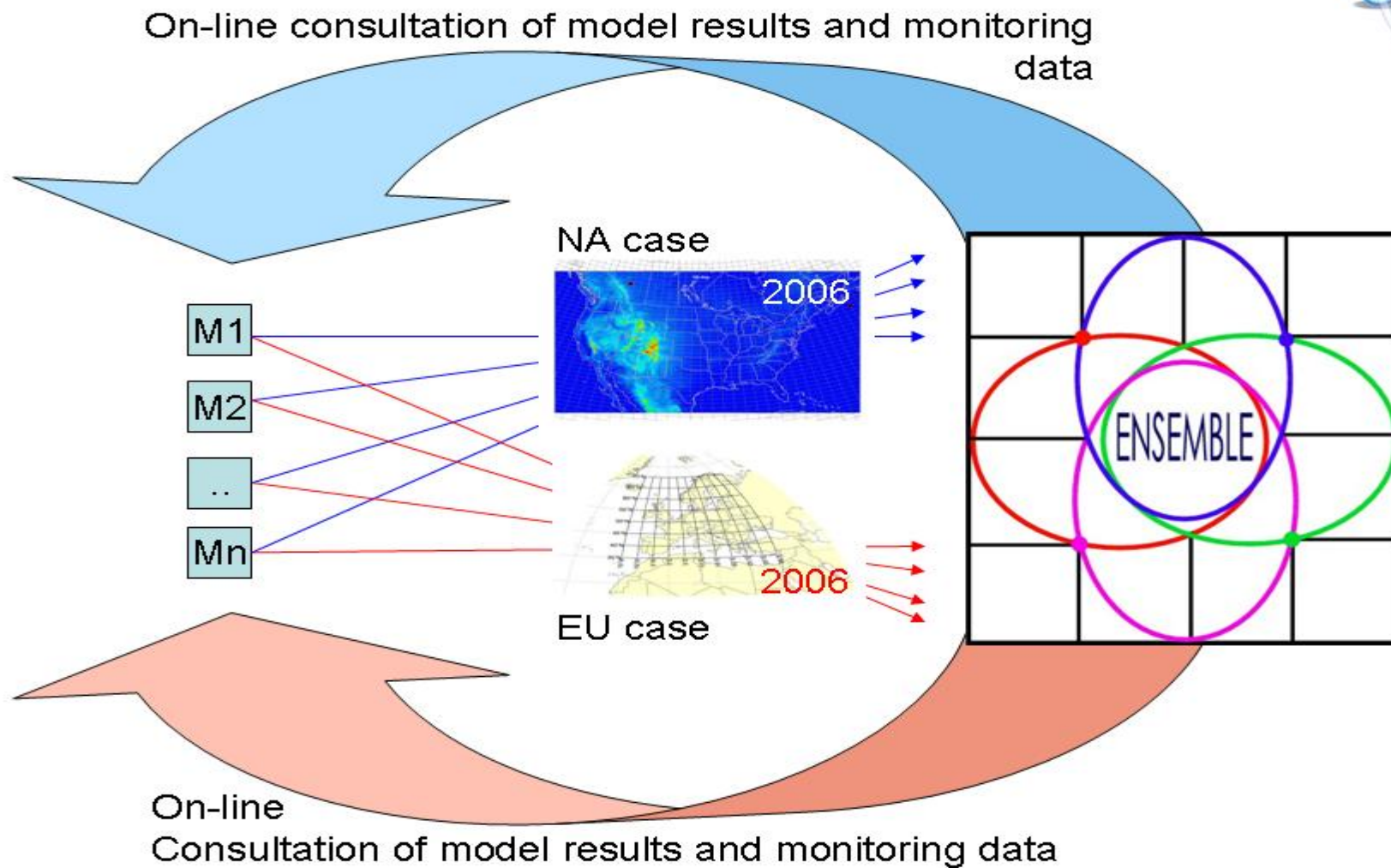


First phase (2010) :

focus **operational**, **diagnostic** and **probabilistic** evaluation

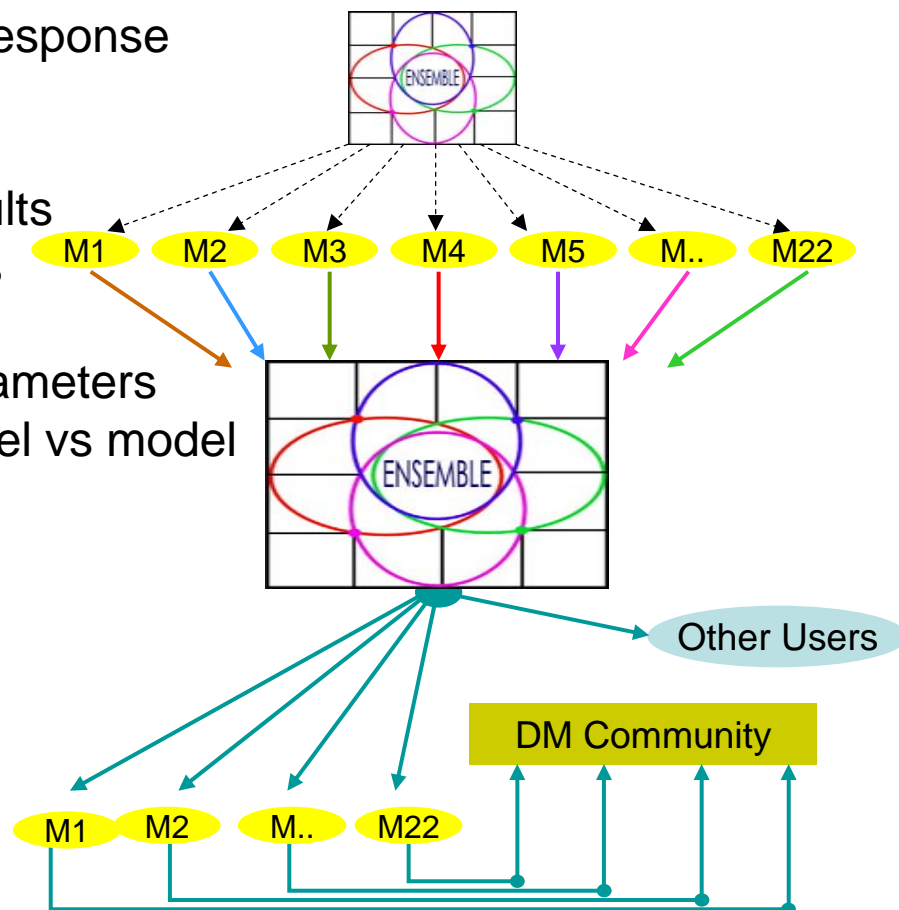
- Collection of model results for [EU](#) and [North American](#) continent over a period of 1 year (2006)
- Collection of model and monitoring data for the case study
- **Organize the information of a central database with the high level of harmonization**
- Exchanging experience on the use of emission inventories produced in NA and EU
- Spatial analysis of model behavior and evaluation at monitoring stations against measurements
- Introduction of the vertical dimension as important element of the evaluation => use of vertical profile and MOZAIC data for the two continents





Platform developed in 2000 for emergency response
real time ensemble dispersion analysis

- The facility allows acquisition of model results
- Real-time on the fly consultation of the sets
- Client based analysis
- Hard wired model evaluation tools and parameters
- Acquisition of point measurements for model vs model analysis
- Global as well as regional scale coverage



Participation still opened:

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