# FAIRMODE WG4 – Planning Activities

» Alain Clappier







### WG4 activities: Overview

Goal of the WG4: identify a common and simple methodology to evaluate model performances with regards to the simulation of emission reduction scenarios.

- The methodology which could be used (A. Clappier)
- The tool which provide graphic indicators (K. Cuvelier)
- Results over Portugal (A. Monteiro), Belgium (P. Viaene)
- Inter-comparison between reduction effects over North Belgium, South Poland and Po Valley (A. Clappier).



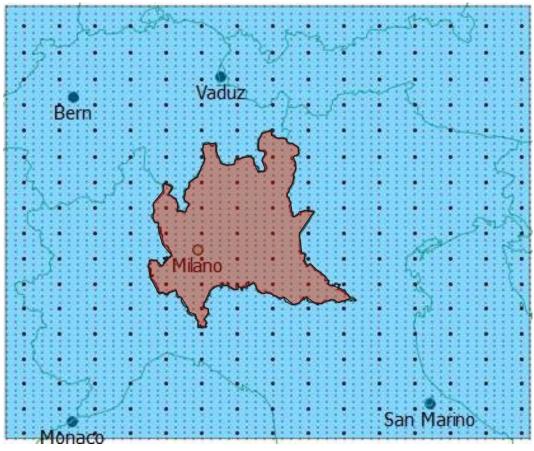




# Indicators

European Commissio

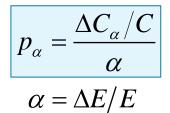
#### **Reduction area:**



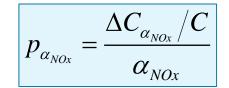
UNIVERSITÉ DE STRASBOURG

Calculation of potencies,

#### for all precursors:



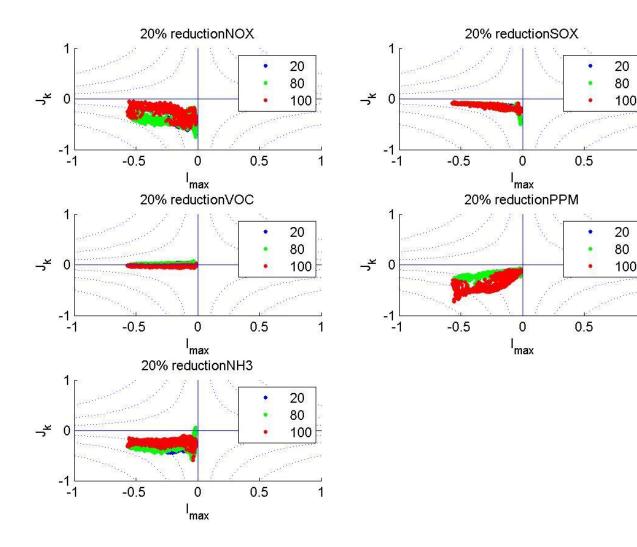
#### for each single precursor:



$$\alpha_{NOx} = \Delta E_{NOx} / E_{NOx}$$



# Indicators









### WG4 activities: Overview

Goal of the WG4: identify a common and simple methodology to evaluate model performances with regards to the simulation of emission reduction scenarios.

- The methodology which could be used (A. Calppier)
- The tool which provide graphic indicators (K. Cuvelier)
- Results over Portugal (A. Monteiro), Belgium (P. Viaene)
- Inter-comparison between reduction effects over North Belgium, South Poland and Po Valley (A. Clappier).







### WG4 activities: Work-plan

### Level 1 participation:

*Tasks:* Participants will run their models in order produce the required scenario runs to plot the indicator graphics. Each of them will **use the model and the data they want over the domain and the time period they want**.

Participants: - Barcelona Supercomputing center

- NILU
- MetNo
- INERIS
- VITO
- Aveiro
- Deadlines: September 2014 to provide the tool (JRC)
  October 2014 to provide the results (participants).
  December 2014 to provide the interpretation and decide if an additional meeting is necessary in February 2015.







### WG4 activities: Work-plan

### Level 2 participation:

*Tasks:* Participants will run their models in order produce the required scenario runs to plot the indicator graphics. Each of them uses his model but with a **common set of data** and over a **common domain and time period**.

Participants: ?

Deadlines: After February 2015 (we will wait for other benchmarking activities in other WG).







# Thank you





