



# **National Integrated Assessment Modelling activities**

***Report to TFIAM February 2011***

**16 countries actively involved.**

**Some using GAINS at a national scale, some with independent IAM modelling, others just starting**

**Expanding activities**

**EECCA countries, France now implementing GAINS**

**NIAM meeting to be held at IIASA 21 March,  
followed by joint day with EC4MACS partners  
*agenda illustrates range of national activities***

**Review IAM activities including update by Sweden on joint programme with EECCA countries**

**Shipping:**

***Netherlands: Calculations with GAINS-NL of the beneficial effects and cost efficiency of SO<sub>2</sub> and NO<sub>x</sub> measures for shipping***

***Belgium : Integrated assessment of an emissions trading scheme to reduce SO<sub>2</sub> and NO<sub>x</sub> emission from international shipping and the related environmental impact over Europe***

**Short lived climate forcing**

***Finland: Short lived climate forcing and mitigation of black carbon: & MACEB project (Mitigation of Arctic warming by Controlling European black carbon Emissions)***

**Biofuels**

***Sweden: Compilation of emission factors for biofuels in a GAINS model script***

**Regional scale**

***Italy: Regional Integrated Assessment Tool (RIAT) and the OPERA (Life Prog) Project: An IA methodology to plan local cost-effective air quality policies harmonised with national and European activities***

## **Reaching emissions ceilings**

***Ireland: NOx 2010 NEC target for Ireland: progress, problems and further options***

## **Road transport emissions & modelling of urban air quality**

***UK: Evaluation of the BRUTAL/UKIAM modelling against urban background and road-side concentrations and sensitivity to changes in emission projections.***

***Germany: Model concept and application for estimating urban air quality with focus on urban background and kerbside concentrations in Germany***

***Poland. Uncertainty of air quality forecasting in Warsaw due to emissions uncertainty***

## **Detailed modelling extended to 2030**

***Netherlands: High resolution modelling of NO<sub>2</sub>, PM<sub>10</sub> and PM<sub>2.5</sub> concentrations and deposition maps for 2010 up to 2030 for checking compliance with air quality limit values and Natura 2000 goals***



## **National Integrated Assessment Modelling**

***Further information available on NIAM  
web-site : [www.niam.scarp.se](http://www.niam.scarp.se)***

***or contact Helen ApSimon :  
[h.apsimon@imperial.ac.uk](mailto:h.apsimon@imperial.ac.uk)  
or Stefan Astrom  
[Stefan.Astrom@ivl.se](mailto:Stefan.Astrom@ivl.se)***