



GAINS–France Project

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INERIS
*maîtriser le risque |
pour un développement durable*

GAINS-France

The background

- Early 2010: INERIS report investigating national IAM approaches of several European countries (GAINS and other models) and the options for France
- Summer 2010: Preliminary discussions with IIASA about GAINS-FR
- Autumn 2010: INERIS report outlining a suggestion for the setup of the GAINS-FR project
- Autumn 2010: INERIS mandated by the French Ministry for Ecology (MEDDTL) to set up the GAINS-FR project
- December 2010: Contract between INERIS and IIASA on GAINS-FR established
- January 2011: Start of the GAINS-FR project

Objectives of the project

- **Develop an IAM capacity in France**
- **Have a modelling tool that allows**
 - **Simulation and analysis of alternative national scenarios**
 - **Running of sensitivity analyses with respect to GAINS-Europe scenarios**
 - **Improving France's capacity to compare results from GAINS modelling with those from national emission projections**
 - **Providing additional input to negotiations of European policies**
- **Create procedures for regular and transparent updating of national scenarios in GAINS**
- **Facilitate exchanges with stakeholders**

The GAINS-France model

- **The initial phase**

- **A model version consisting essentially in a copy of GAINS-Europe, accessible via internet and secured by user rights**
- **France, via INERIS, can create and modify its own activity pathways, control strategies and emission vectors**
- **Possibility of creating an external link between GAINS-FR and the national chemistry-transport model CHIMERE to increase the spatial resolution of impact indicators**

- **Possible further developments at a later stage**

- **Adaptations to French specificities - e.g. modification of the sector aggregation of data output; introduction of (a limited number of) additional control measures**
- **Replacement of EMEP SRMs for France by CHIMERE SRMs to increase the spatial resolution - could be structured as country-to-grid, sector-to-grid or region-to-grid matrixes**

The provisional work plan

- **Objectives for 2011**

- **Development of a good understanding of the contents, structure and internal functioning of GAINS**
- **Introduction of a reference scenario into GAINS-France (a CLE scenario based on the most recent national activity projections) and analysis of the results**
- **Transparent documentation of the translation of national data and hypotheses into GAINS variables**
- **Establishment of a network of, and a co-operation with, French experts**

- **Objectives from 2012 onwards (provisional)**

- **In depth investigation of possible differences in results between GAINS-FR and national emission projections**
- **Collection of missing data**
- **Investigation of hypotheses on emission factors and costs in GAINS**
- **Introduction of alternative scenarios / running of sensitivity analyses**
- **Investigation of possible further developments of the model**

Institutions involved

- **INERIS is in charge of the coordination and management of the project**
 - **For GAINS-FR INERIS is financed by the French Ministry for Ecology, Sustainable Development, Transport and Housing (MEDDTL)**
- **National experts to be associated to introduce the best available national information into the model**
 - **CITEPA (emission inventories and emission projections)**
 - **Institutions in charge of activity projections**
 - **Experts from different departments of the environment and other ministries**
 - **Experts from industry**
- **Plan to set up a stakeholder forum**
 - **Objectives: inform about the project and its progress, gather recommendations, other expertise, questions ...**
 - **Stakeholders: ministries, industry, research institutions, modellers ...**



Thank you for your attention!

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