

# **EGTEI → RAINS**

## **Recent developments**

**Janusz Cofala, Zbigniew Klimont**

International Institute for Applied Systems Analysis

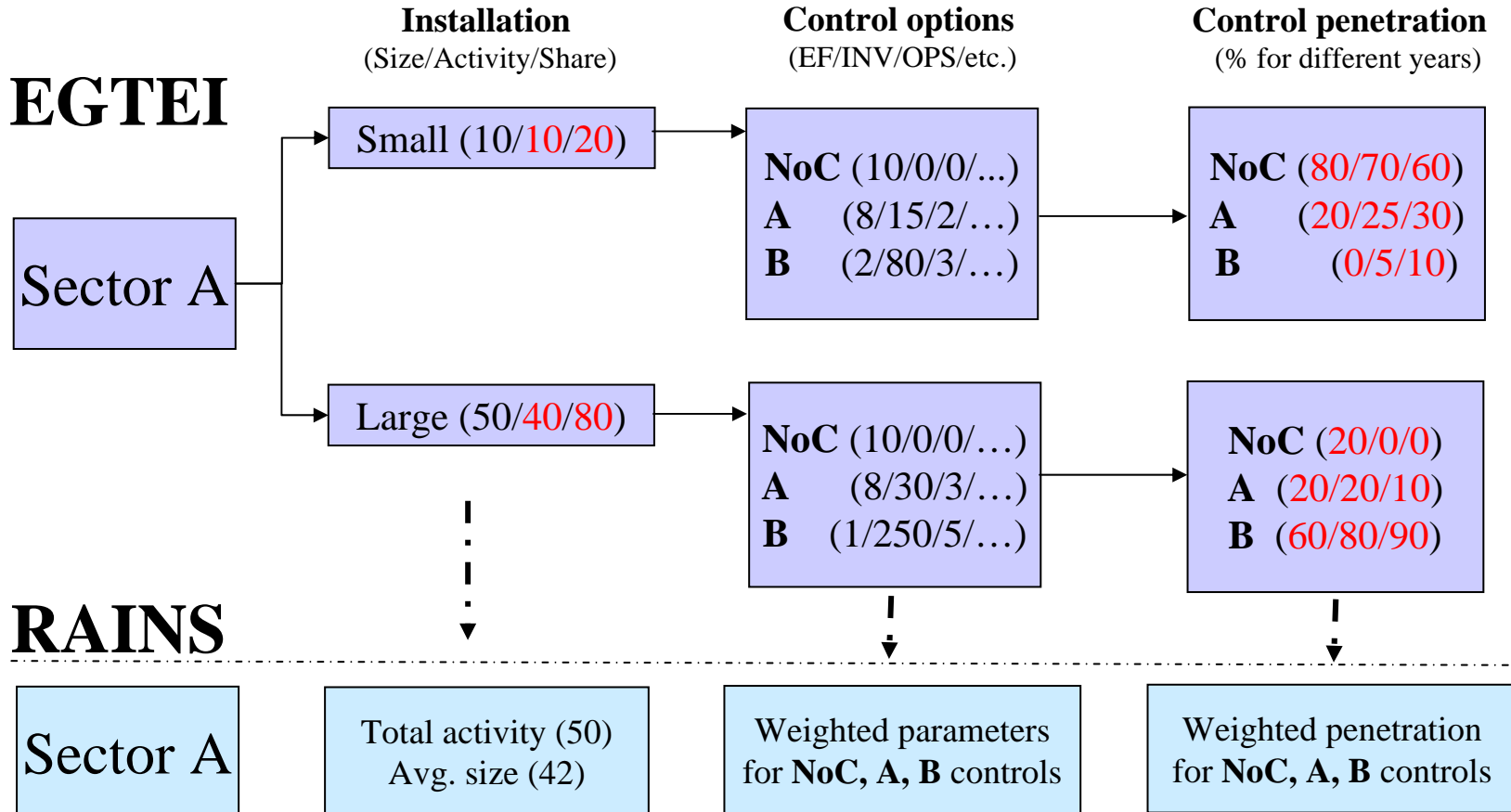
EGTEI Steering Group meeting, Rome, Italy,  
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# Scope of the presentation



- **Flow of information:**
  - ideal world
  - pragmatic solutions
- **State of implementation of EGTEI data in RAINS**
- **Further actions – IIASA's point of view**

# Flow of information EGTEI->RAINS: Example – Ideal World



# Real world problems



- **Country-specific data available only for a limited number of countries (France, Belgium other countries for selected VOC sectors)**
- **For every sector a separate interface needs to be built**
- **Data collection and interface building worth doing only for sectors with high enough potential for further control (on top of current legislation)**
- **Changing of the RAINS model structure time consuming, can be done for subsequent versions only**

# Practical approach



- **Sector-specific solutions adopted, depending on data availability**
- **Already partial use of data importantly improves the quality of assessment**
- **Implementation of EGTEI results in RAINS needs to be approved/endorsed by the WGSR**
- **Changes in model structure need to be discussed with (requested by) the TFIAM**

# Implementation of EGTEI data in RAINS (1)



## Implemented:

- Most of NMVOC related sectors – emission characteristics as well as control options and their costs considered and evaluated; in some cases modifications (consulted with EGTEI) introduced
- Off-road mobile sources – emission and cost characteristics of control stages according to the current European legislation; country-specific activity data not available
- Road transport – information on costs of controls (EURO stages - RICARDO)
- Process emissions from refineries and cement - generic technologies based on French data

# Implementation of EGTEI data in RAINS (2)



## Implemented:

- Large combustion sources (SO<sub>2</sub>, NO<sub>x</sub>, PM) – cost info in RAINS modified based on a draft EGTEI document

## Not implemented:

- Combustion in refineries – two sets of data with different costs – which should be used?
- Glass – country-specific parameters not known

# NEW Implementation (1)



- **PRINTING** – following new round of consultations with experts representing printing industry (meeting at IIASA, March 2005) update and revision of emission and cost characteristics in EGTEI and RAINS
  - For publishing, heat set offset, and packaging EGTEI data were incorporated in RAINS
  - Data for screen printing were reviewed in RAINS in collaboration with EGTEI
  - **NEW** category including sheetfed offset and ‘coldset’ (mostly newspaper printing) was developed in collaboration with industrial experts and introduced in RAINS.

## NEW implementation (2)



- **ADHESIVES** – following a consultation with experts representing adhesive industry (meeting at IIASA, March 2005) update and revision of emission and cost characteristics in EGTEI and RAINS; New split of this activity into two categories
  - Tape manufacturing,
  - Industrial use of adhesives (wood applications and other)
- **RESIDENTIAL COMBUSTION** – update and revision of data in RAINS including current EGTEI document plus additional information available recently and incorporated in collaboration with EGTEI.

# Ongoing activities



- **DOMESTIC USE OF SOLVENTS** – review und update of data in RAINS based on recent information
- **COIL COATING** – New contacts with representatives of coil coating industry might lead to review of some of the assumptions in RAINS
- **SEVERAL SOLVENTS SECTORS** – review and update of information on applicability of control technologies done in collaboration with EGTEI experts (partly completed).

# Further actions



- **Concentrate on finalizing data for sectors already covered, help IIASA in implementing reviewed and endorsed documents**
- **Collect missing country-specific information and pass it to IIASA (in RAINS aggregation) via national NEC Directive coordinators**
- **Timing:**
  - **General data: ASAP**
  - **Country-specific data - before beginning of consultations with individual countries, see [http://www.iiasa.ac.at/rains/CAFE\\_files/timetable\\_NECD\\_JC.html](http://www.iiasa.ac.at/rains/CAFE_files/timetable_NECD_JC.html)**