

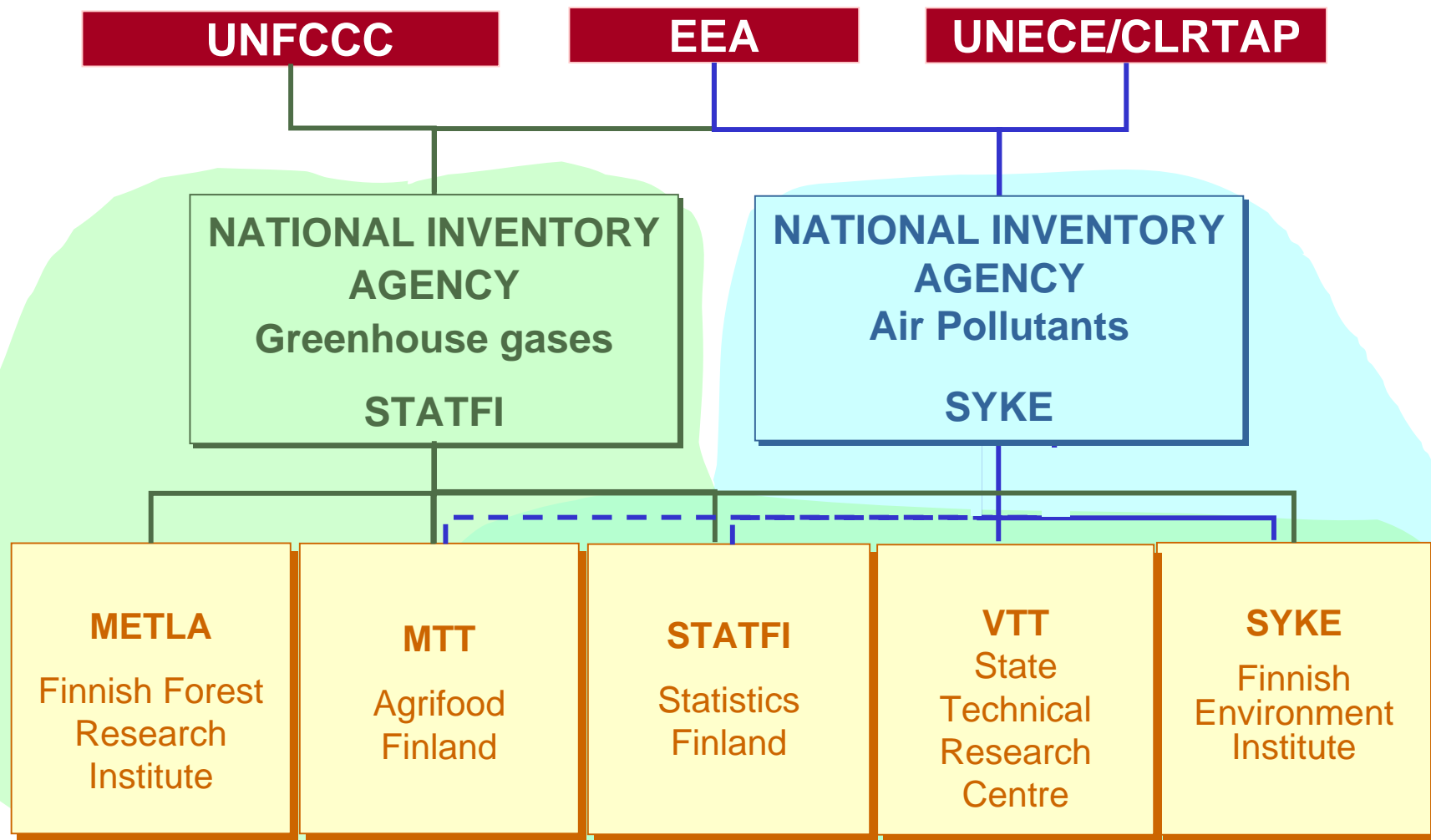
Capacity Building Workshop on Air Emission Inventories
17-18 October 2005, Rovaniemi, Finland

National Inventory System in Finland

Kristina Saarinen



THE NATIONAL INVENTORY SYSTEM IN FINLAND



ORGANISATION OF INVENTORIES

TWO INVENTORY LINES: **Greenhouse Gas Inventory**
 Air Pollutant Inventory

National inventory agencies report directly to the conventions
Close cooperation between the experts between the two inventories.

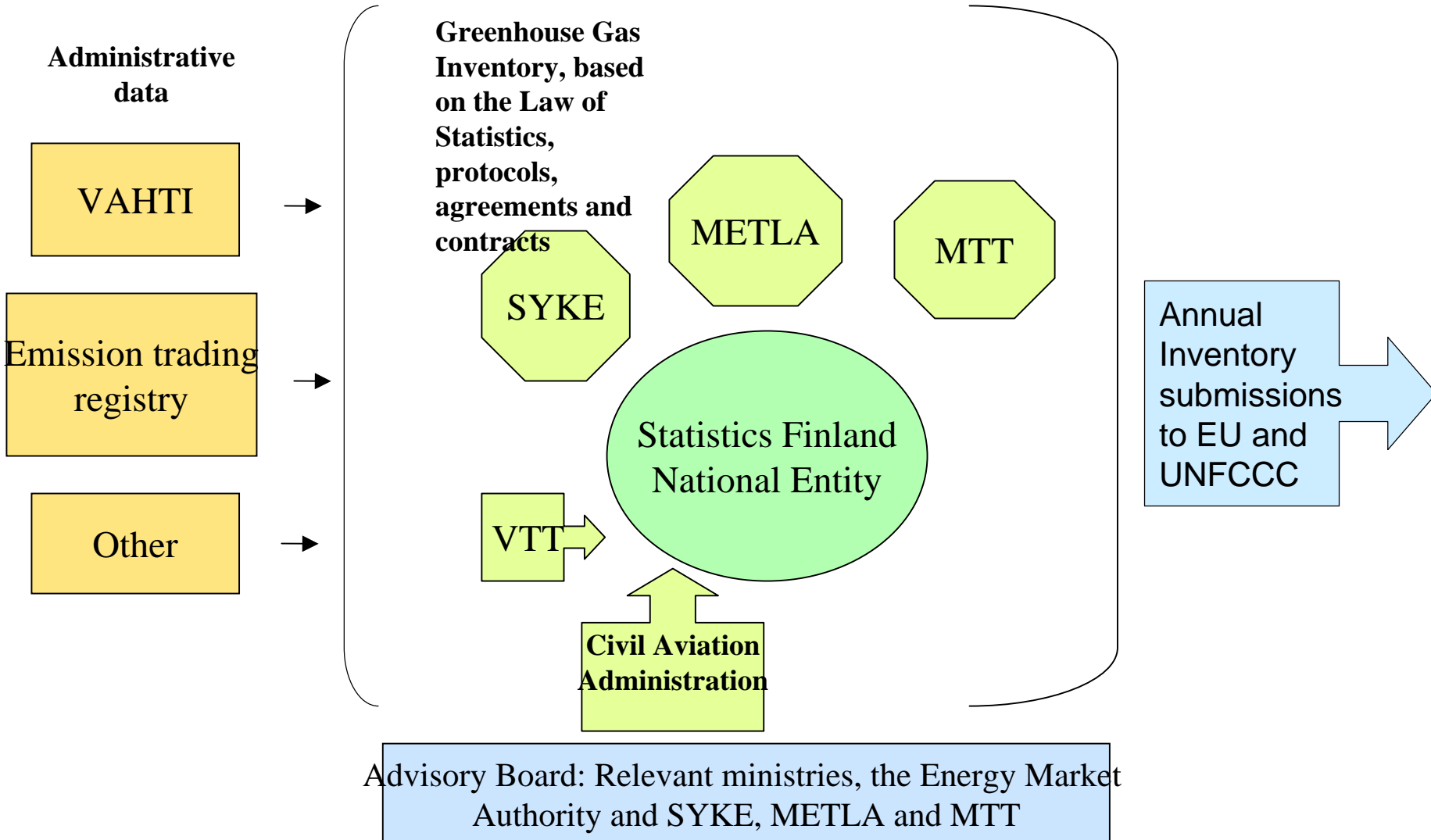
NATIONAL SYSTEM FOR GREENHOUSE GASES

National Inventory System officially established.
Expert institutes participate in the inventory which is
coordinated by Statistics Finland ([www. stat.fi/greenhousegases](http://www.stat.fi/greenhousegases))

INVENTORY OF AIR POLLUTANTS

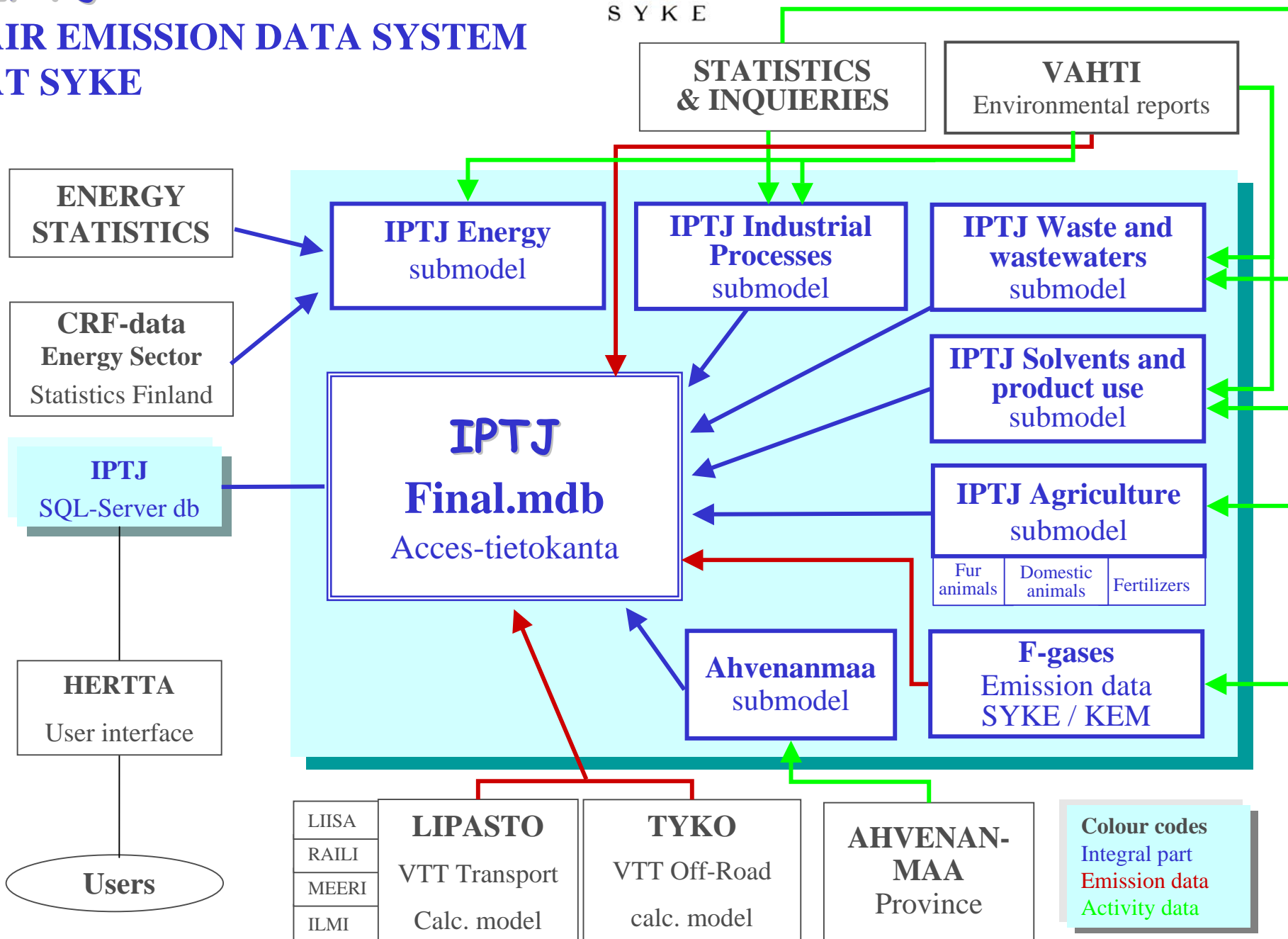
Inventory is carried out at the Finnish Environment Institute (SYKE).
Data available by sources and geographically
(www.environment.fi > State of the environment > Air).

National Greenhouse Gas Inventory System in Finland



IPTJ

AIR EMISSION DATA SYSTEM AT SYKE



INTERCOMPARISON OF FUEL BASED DATA BETWEEN STATFI AND SYKE

STATISTICS FINLAND Greenhouse Gases

ILMARI
Data System for
FuelBased Emissions

**National GHG
database**

Energy sector
FUEL & CO₂
data in
CRF format

NMVOC

NMVOC
CH₄

FINNISH ENVIRONMENT INSTITUTE – Air Pollutants

Energy

Industrial
processes

Solvent &
prod use

Waste &
ww

Agriculture

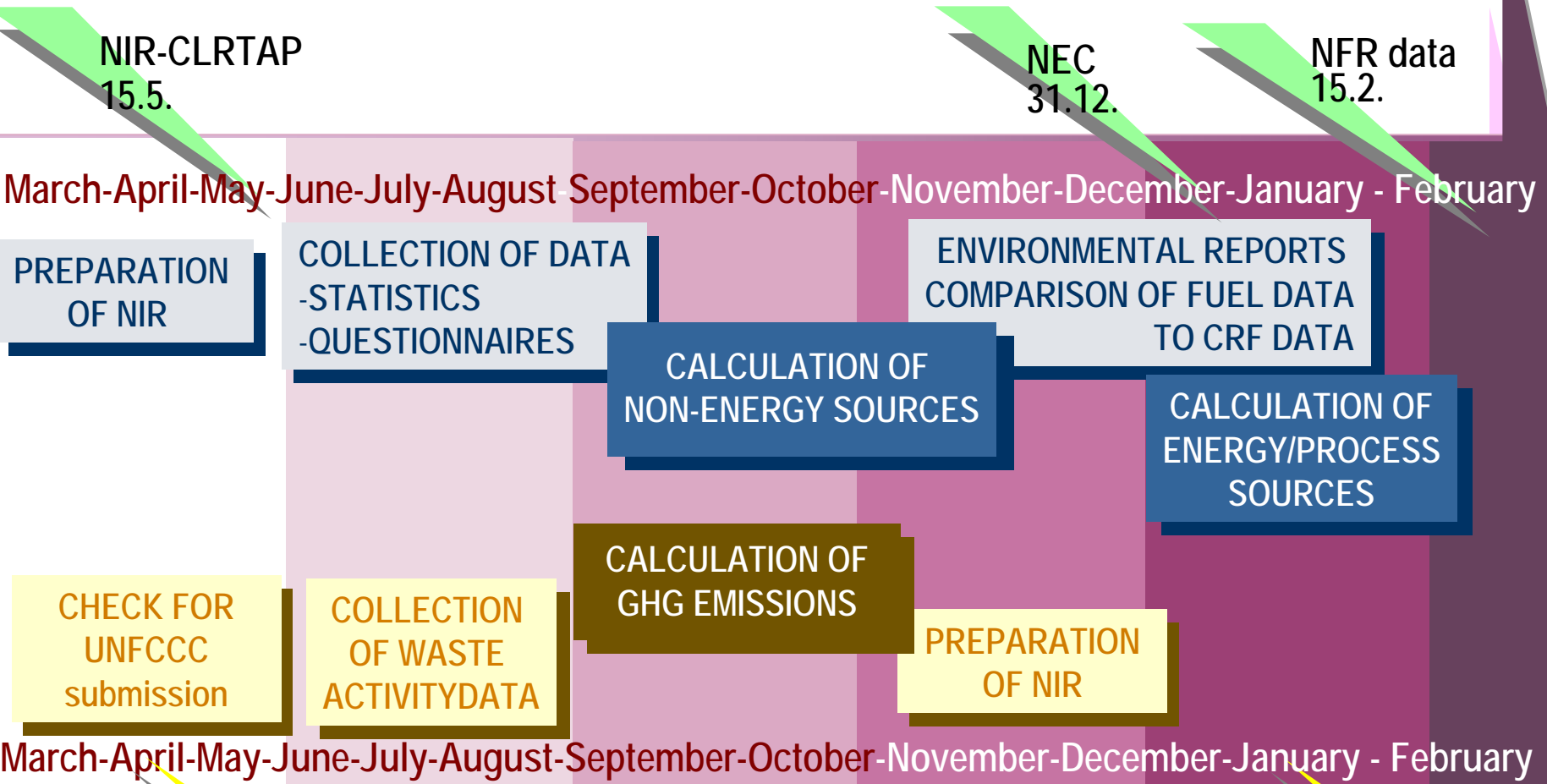
Åland
Territory

**IPTJ
National Air
Emissions Data
System**

F gases

**National Emission Data
Production Methods**

THE INVENTORY YEAR FOR AIR POLLUTANTS



THE INVENTORY YEAR FOR GHGs



MANAGEMENT & DEVELOPMENT OF THE INVENTORIES

Inventory Groups (Target ISO 9001 or the same level)

- Greenhouse gas inventory: all experts from the expert institutes that participate calculation of emissions
- Air pollutant inventory: Air pollutant Team

Methodologies

- Estimation and development of the methodologies is the responsibility of the expert institutes together with the inventory agencies
- Participation in national and international projects

Industrial emissions

- Projects together with the industry coordinated by SYKE (www.ymparisto.fi/paastot - in Finnish: Pulp&paper industry, Energy production, Metal industry...)
- Coordination between methodologies in UNFCCC, CLRTAP, EPER, PRTR

QA/QC

GHG documentation

- Templates to all experts for documenting data, methods etc.
- Archiving of the documents, maintenance/supervision of the quality system and compilation of reports by Statistics Finland
- The QAQC group has frequent meetings

Air Pollutant documentation

- Quality manual with responsibilities
- Documentation to be transferred under a QMS software to help maintenance and searching of material (documents and reports, manuals/descriptions (input data, calculation, data system, codelists, contacts, correspondence....), assists in planning and checking of quality and preparation of quality reports
- In line with GHG QA/QC

A "real" QMS cycle is still under development at both systems.

STATISTICS FINLAND

SYKE

**UNFCCC and CLRTAP reporting guidelines
IPCC, EMEP/CORINAIR guidelines**

from 2006..

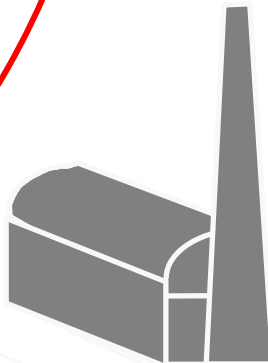
Emission Trading Register

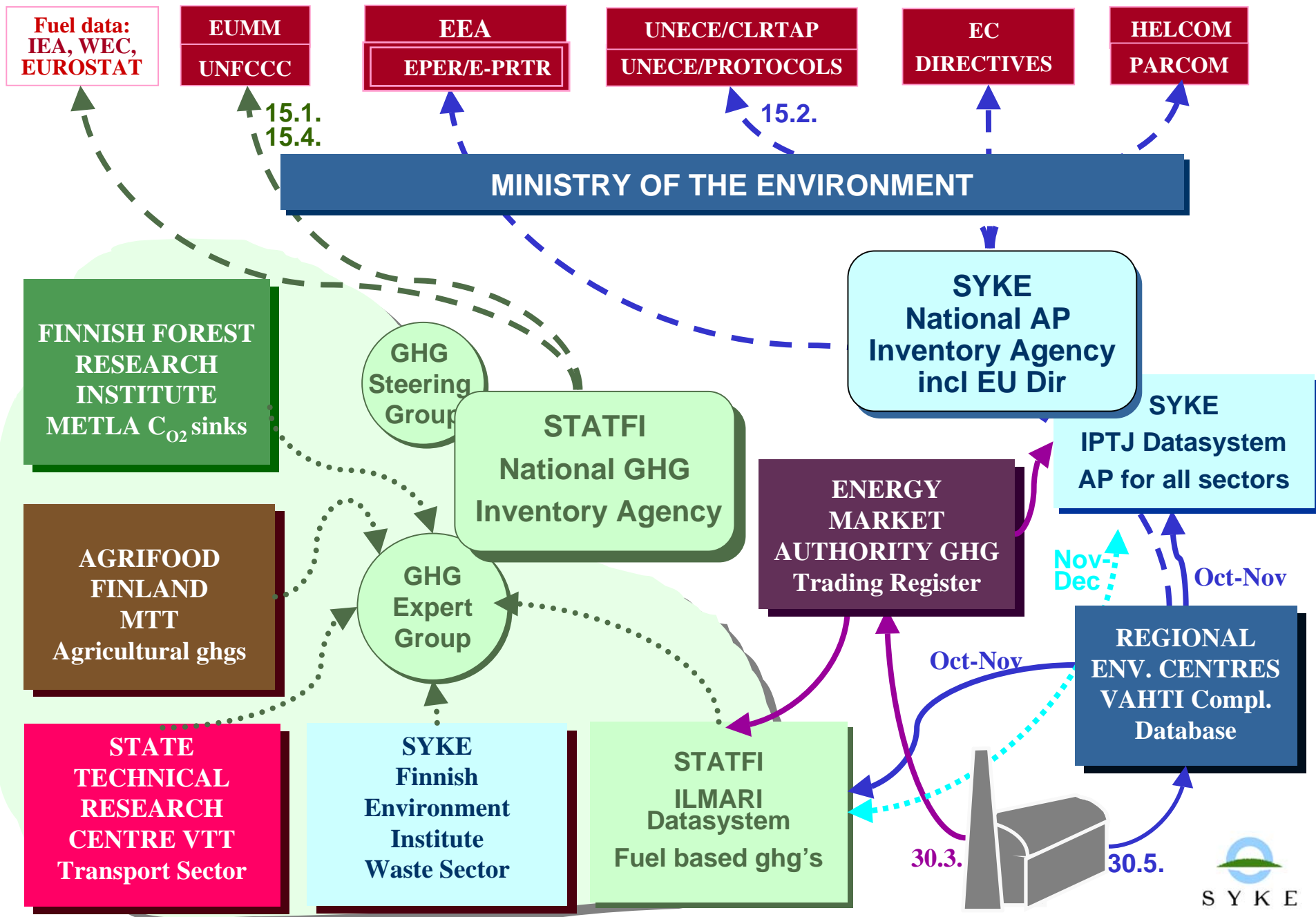
VAHTI
Regional Environment Centres' database for supervision

Verified according to EU regulations

CHECK & APPROVAL BY ENVIRONMENTAL AUTHORITY

- Requirements in the permit
- Data Production Chain in IPPC Monitoring BREF
- Estimation of Total Uncertainty
- QMS, EMS





Thankyou