

Estonian Environmental Research Centre

# Development of National GHG System in Estonia.

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## Agenda

- Functioning Institutional Arrangements
- Data Supply System
- QA-QC Procedures
- Team Building



## Republic of Estonia



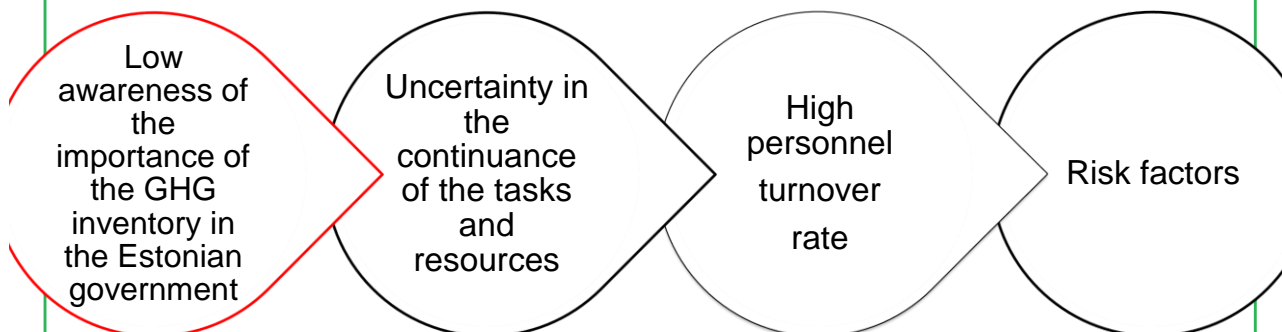
**Head of State:** President  
**Independence declared :** 24 February 1918  
**Foreign occupation by the Soviet Union:** 1940–1991  
**Independence restored:** 20 August 1991  
**Government:** Parliamentary Republic, single chamber Parliament (Riigikogu) of 101 members  
**Currency:** Euro (since 01.01.2011)  
 Estonia became a **NATO member state** on 29 March 2004.  
 Estonia became a **European Union member state** on 1 May 2004.  
**Area:** 45 227 square km  
**Population:** 1.340 million  
**Population density:** 31 inhabitants per square km  
 The proportion of **urban population** (2011): 68%  
 The proportion of **rural population** (2011): 32%  
**Largest ethnic groups:** Estonians (69%), Russians (26%), Ukrainians (2%), Belarussians (1%) and Finns (1%).  
**Temperature range** -2,0°C in winter (may sink to -20°C usually in February) and +19.4°C in summer (may rise to +30°C usually in July).

## Establishment of the National System (NS)



- Prepared National Inventory Reports (NIR) since 1993
- In 1994 an Inter-ministerial Committee of Climate Change was created at the Estonian Government.
- The Ministry of the Environment organized the practical providing of GHG inventories
- Financial resources planned in the State Budget.
- Practical work done on the basis of contracts

## Initial shortcomings of the NS



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## Legal basis



### Ministry of the Environment

- §117 of the Ambient Air Protection Act (RT I 2004, 43,298), activities for the reduction of climate change are organised by the Ministry of the Environment on the basis of the requirements of the UNFCCC and the Kyoto Protocol to the UNFCCC
- §6 of the Statutes of the Ministry of the Environment (RT I 2009, 63, 412), the MoE is responsible for climate change related tasks.
- In accordance with the Statutes of the Climate and Radiation Department the department is responsible for organizing and coordinating the GHG emission reporting activities

### The Estonian Environment Agency

- In accordance with §9 section 12 of the Statute of the EtEA, the tasks of the Forest Monitoring Department are to plan, organize and perform forest monitoring and applied research, statistical forest inventory, land-use and land use change and carbon cycle monitoring, and to control, process and analyse monitoring data, comply national and international reporting obligations.

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- A new contract agreement with the EERC for inventory compilation in the energy, industrial processes and product use, agriculture and waste sectors and for inventory coordination was entered into in 2016 **for three years** (for the 2017, 2018 and 2019 submissions).

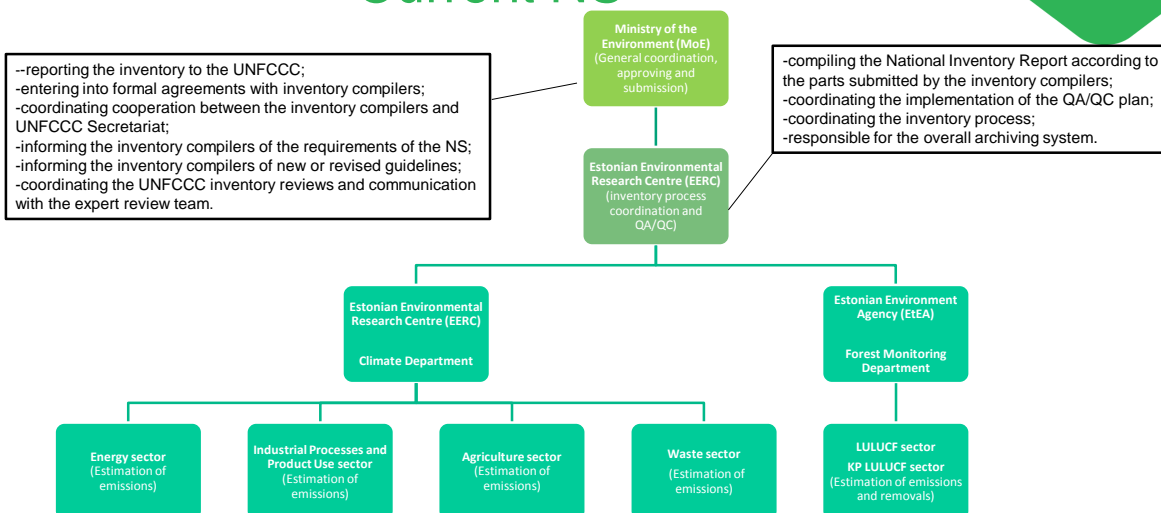
### Statistics Estonia

- Statistics Estonia (SE) collects statistical data on the basis of the **Official Statistics Act § 3(2)**, taking into consideration the official statistical surveys approved by the Government of the Republic. MoE has a bilateral agreement with SE.

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## Current NS



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## Set up of the data supply system

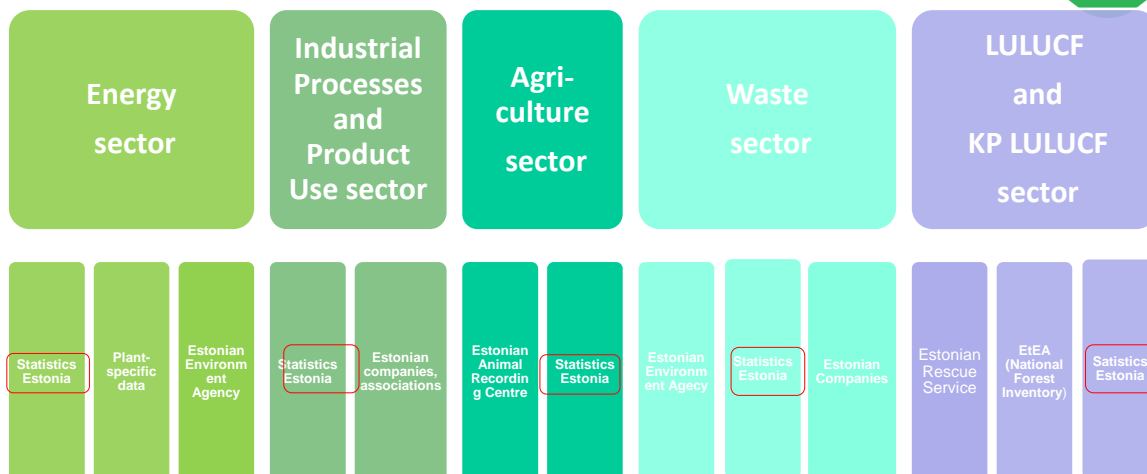


- Some sectors used largely aggregated activity data, e.g. from national statistics.
- The access to metadata was based on personal contacts rather than established procedures and agreement between organizations.
- Insufficient collaboration with experts indirectly involved in the inventory preparation

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## Main pathways of data collection



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## Lessons learned



- **Awareness:**
  - Take full advantages of review reports, twinning projects
  - Acknowledge the importance of compiling a good quality inventory – climate planning policy tool
- **Data:**
  - Involvement of MoE to ensure sustainable data flow
  - Establishing legal arrangements to access publicly unavailable data

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## Quality Assurance/Quality Control (QA/QC) plan



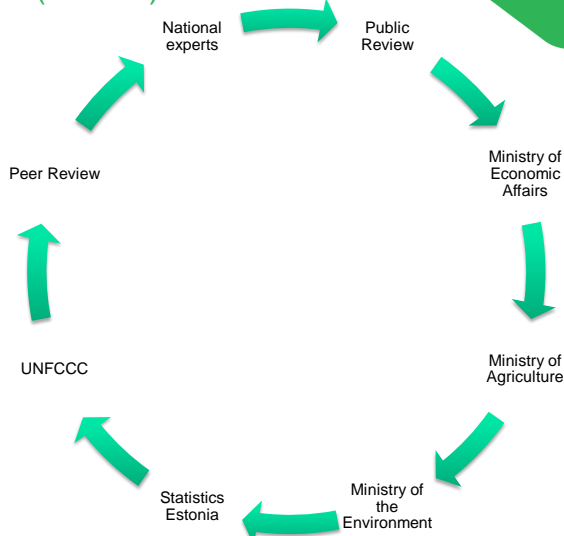
Estonia's QA/QC plan consists of seven parts:

- (1) Production plan;
- (2) Annual meetings;
- (3) QA/QC checks;
- (4) QA results documentation form;
- (5) Archiving structure;
- (6) Response tables to the review process; and
- (7) A list of planned activities and improvements.

## Quality Assurance/Quality Control (QA/QC) Procedures



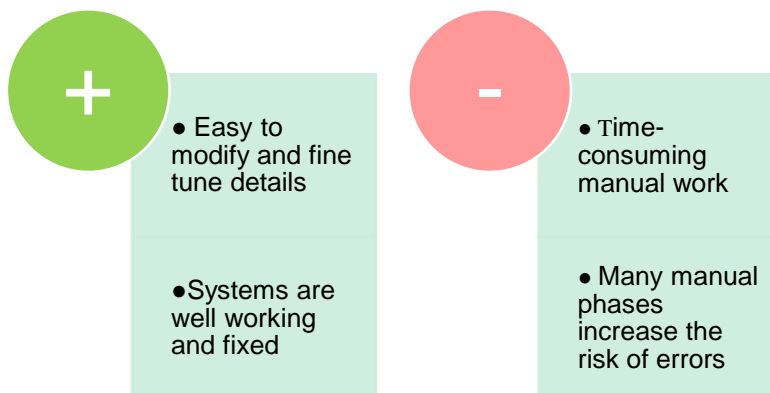
- The 2015 submission was checked by experts from Tallinn University of Technology, University of Tartu, Estonian University of Life Sciences and other national experts.



## Reporting to the EC and UNFCCC



Currently sectoral experts use mostly spreadsheet models based on the IPCC 2006 guidelines and its supplements.



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## Estonian inventory team



### Experiences building a well functioning team

- Expert's responsibility for their sector
- Efficient communication between the compilers and the national focal point
- Motivation:
  - ✓ Long-term contracts
  - ✓ Professional development



- **Co-ordinators:** Kristina Kaar (EERC); Cris-Tiina Türkson (MoE)
- **Energy:** Andre Tammik (EERC)
- **Industrial Processes:** Kelly Joa (EERC)
- **LULUCF:** Kadri Konsap and Maris Nikopensius (EtEA)
- **Agriculture:** Marilyn Möls (EERC)
- **Waste:** Hanna-Lii Kupri (EERC)

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## What has worked for Estonia's NS in the long-run?



- Raising awareness among the policy makers and getting sufficient support
- Focus on establishing binding legal arrangements
- Clearly distributed roles and sound archiving system
- Mapping out all potential activity data resources
- Multiannual contracts

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## Thank you for your attention!

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