

# Progress on the development of the 5<sup>th</sup> Clean Air Outlook

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# Agenda

- Objectives of the fifth Clean Air Outlook study
- Objective and focus of consultations
- The GAINS model
- Updates to the fifth Clean Air Outlook GAINS Baseline
- Next steps
- Q&A

Feel free to ask brief clarification question during the presentation while we can come back then to any of the slides

# Objectives of the fifth Clean Air Outlook study

The overall objective for this study is to provide the underlying analysis to support the preparation of the Commission's fifth Clean Air Outlook report.

The analysis will help addressing several policy questions, e.g.,:

- Assess achievement of ERCs
- Assess achievement of ZPAP targets
- What are the most effective and efficient NH<sub>3</sub> measures to achieve ERCs & ZPAP ecosystem target
- What are the effects of local measures on attainment of air quality limits and exposure
- What are the effects of projection emission reductions on air quality in the EU beyond 2030

Involvement of MS experts in joint review and validation of key data, assumptions and *Baseline* scenario, will be critical

The outputs, and potentially further scenario variants (or new scenarios tbd, depending on capacity), will assist the ongoing revision of the Gothenburg Protocol.

# Objective and focus of consultations

Present, discuss, and validate the assumptions and key results of the baseline scenario with all MS, in particular:

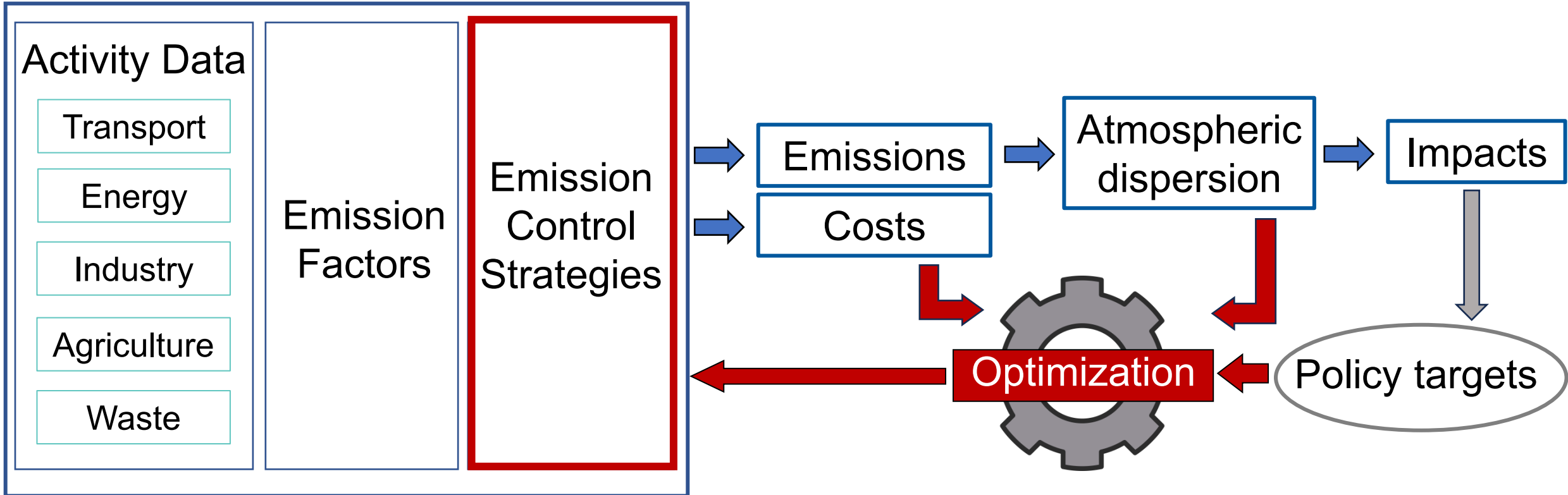
- Historical emissions from NFR 2025 compared with GAINS *Baseline*
- Emission trajectories (WM and WAM) from NFR 2025 compared with GAINS *Baseline*
  - Evaluating NECD compliance
- Key historical activity data and structural assumptions in the GAINS model
- Policies and measures with an air pollution impact

# Consultation meetings

- From late February until today
- 27 meetings with great attendance
- Exchange of data and information before and after meetings
- Ongoing updates to the baseline until end of May

# Concept of the GAINS Model

Consultations  
with National  
Experts



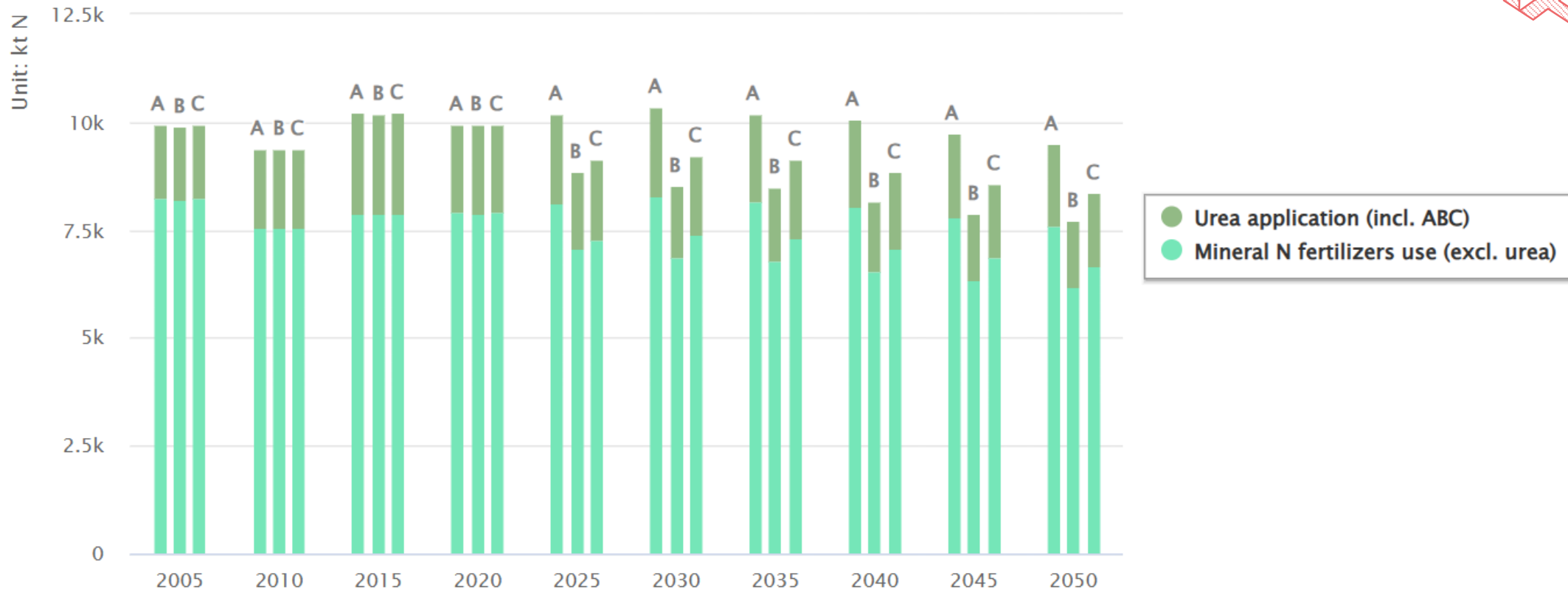
# Mineral N fertilizer consumption (CAO4 vs new projection for CAO5 and CAPRI update)



## Mineral nitrogen fertilizer consumption

Region: EU\_27

Scenario: [A]: Base\_v6b, [B]: CAO5\_Baseline\_v3a, [C]: EUCLIMIT\_P2030\_85p\_var3\_v1a



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# Livestock numbers (Livestock units - LSU)

*(CAO4 vs new projection for CAO5 and CAPRI update)*

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Livestock numbers (LSU)

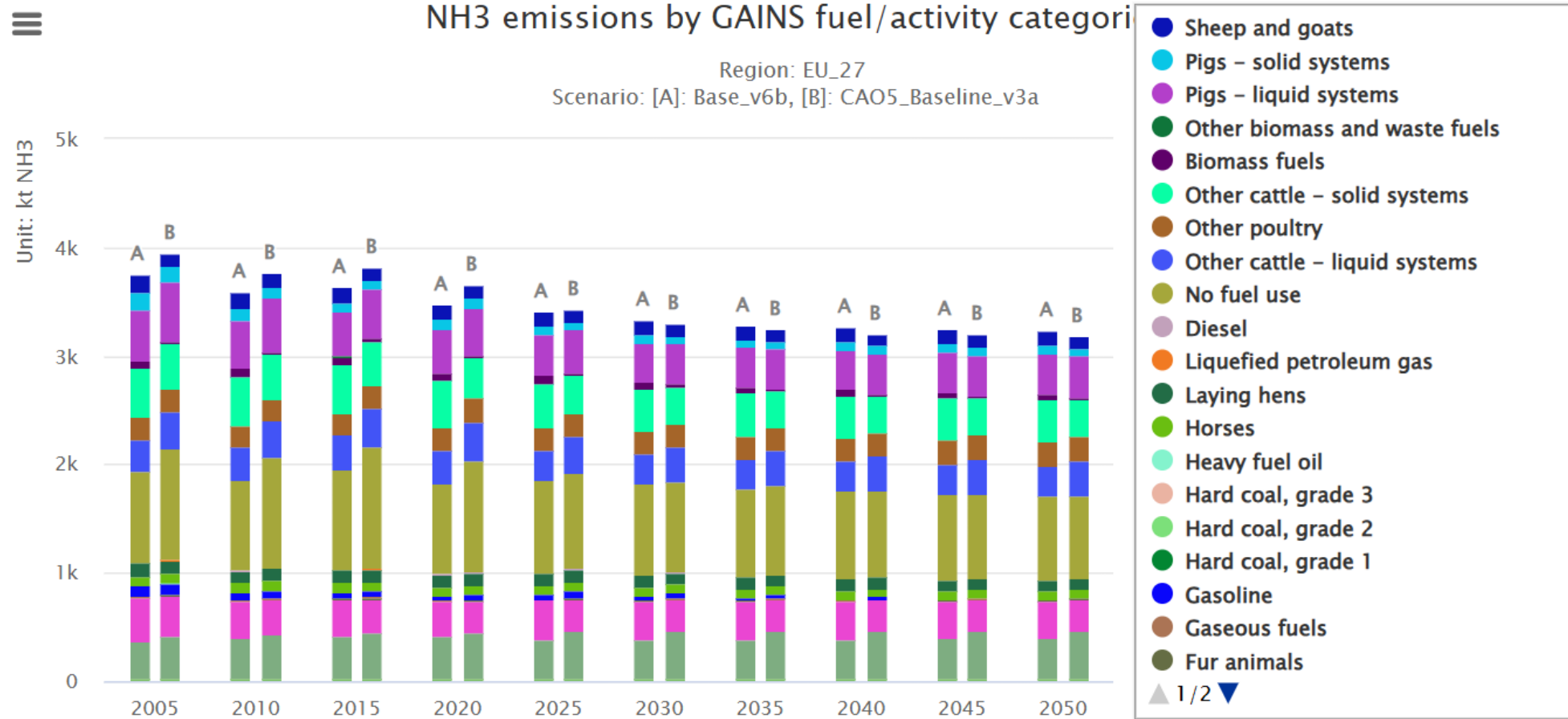
Region: EU\_27

Scenario: [A]: Base\_v6b, [B]: CAO5\_Baseline\_v3a, [C]: EUCLIMIT\_P2030\_85p\_var3\_v1a

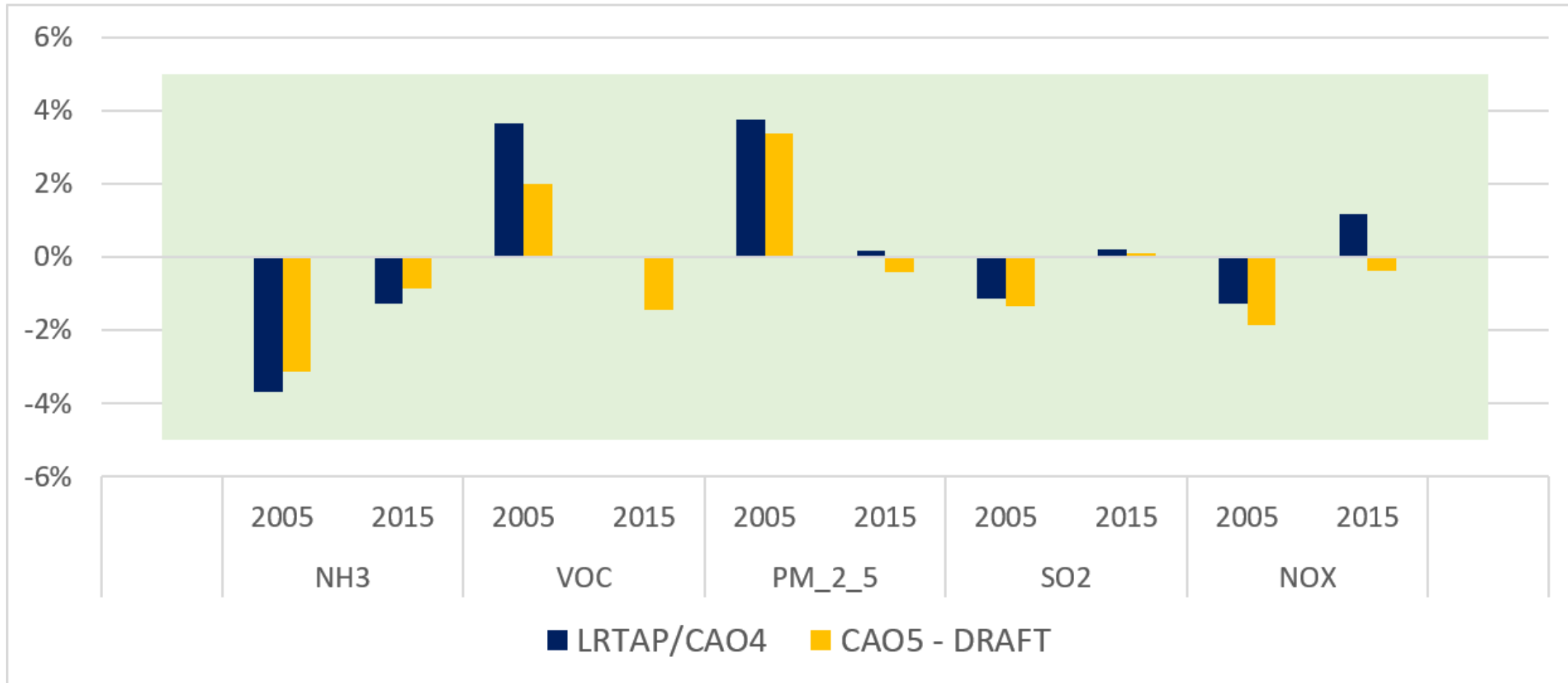


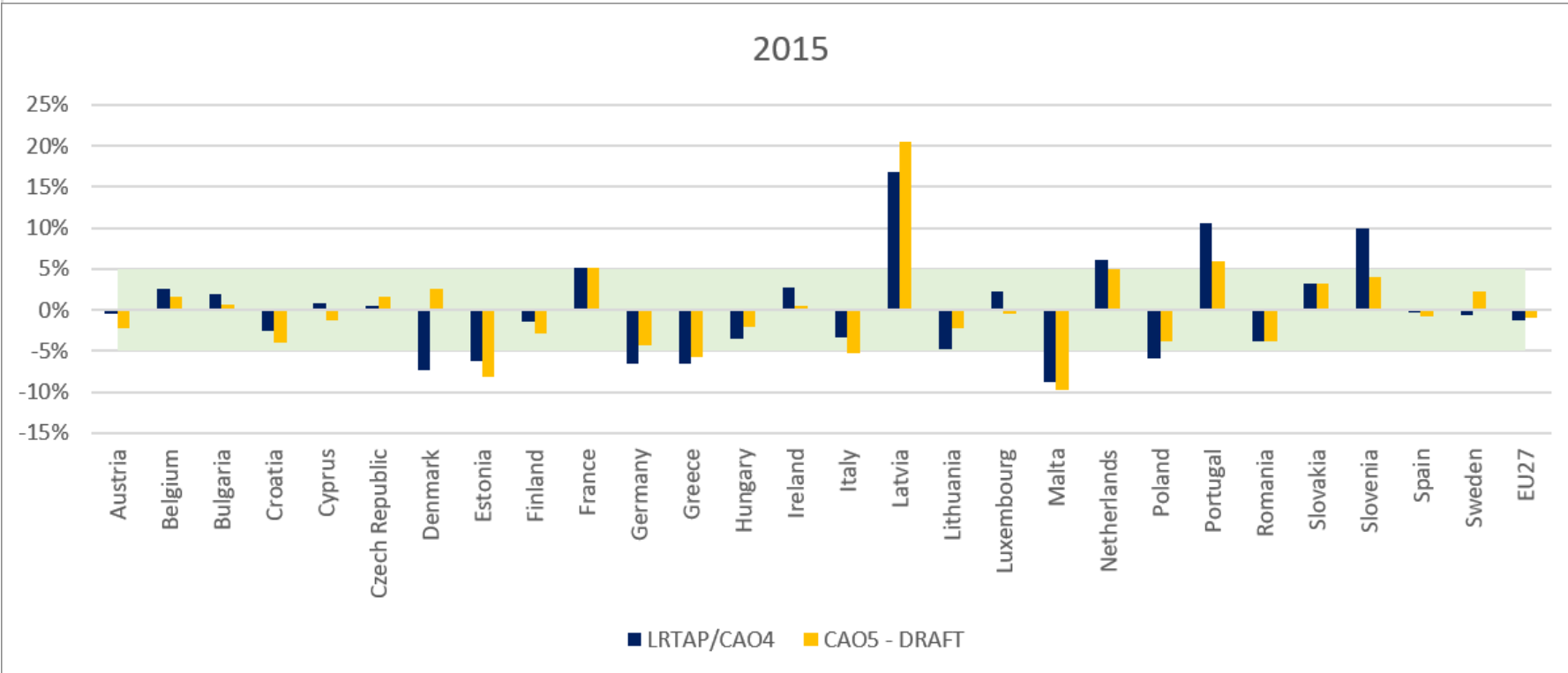
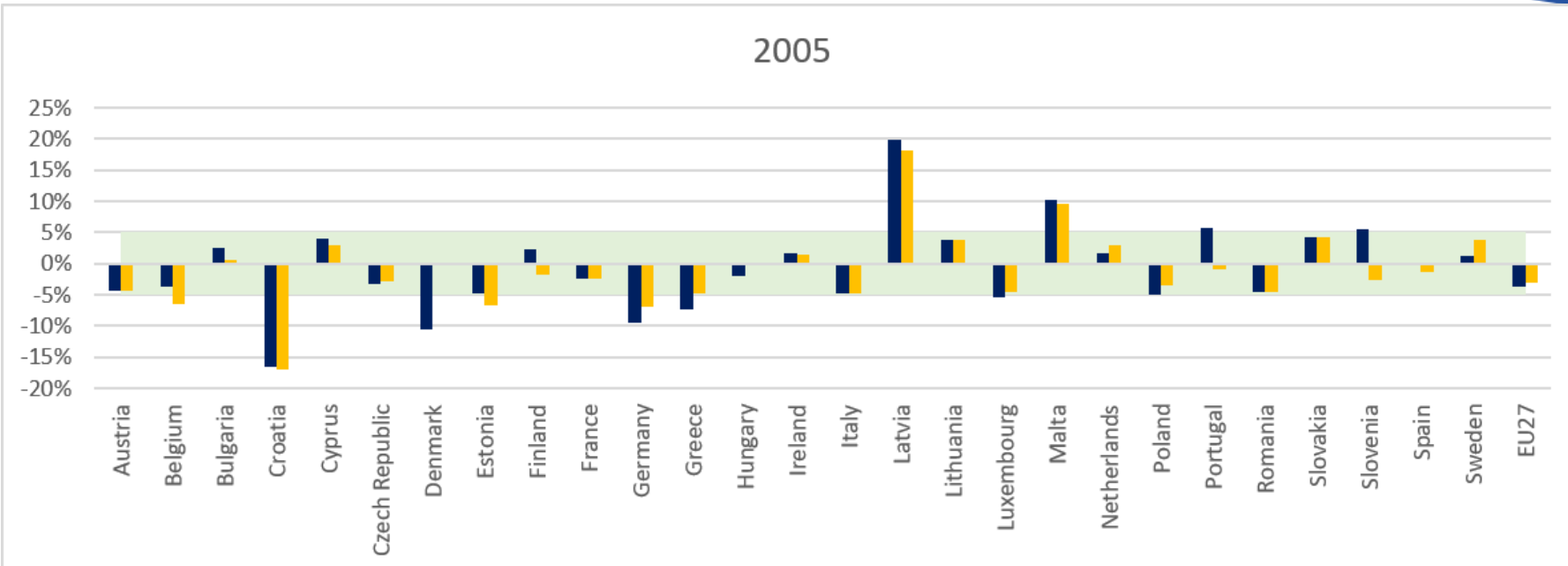
# Past and future NH<sub>3</sub> emissions

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# EU – 27 Differences between GAINS baseline 5<sup>th</sup> CAO and LRTAP and NFR 2025





## NH<sub>3</sub>

- Updated emission factors for fertilizers
- Updated emission for livestock
- More details on mitigation technologies

## Next steps

- Fully implement all information received during and after consultation meetings
- Finalize GAINS baseline
- Further updates in all MS meeting in June