

Update of the EMEP/EEA Guidebook – Agriculture chapters

TFEIP 2026 Annual Meeting
Agriculture & Nature Expert Panel
29/04/2026

Possible
advances in
the evidence
base

Inconsistent
interpretation
and application
of methodology
by Parties

Difficulties
harmonising
Parties' air
pollution and
GHG
inventories

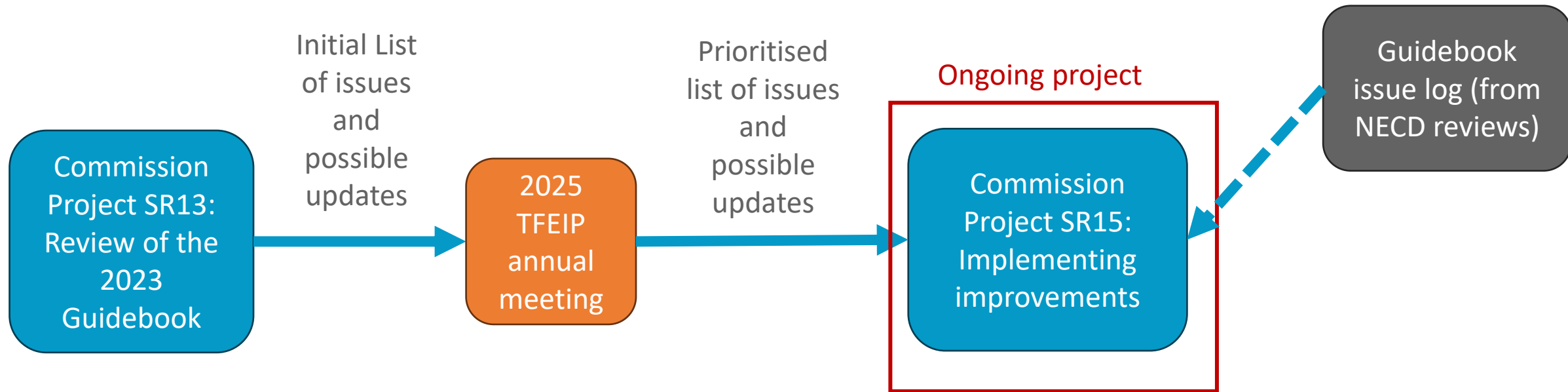
Increasing use
of the IPCC
2019
Refinement for
GHG
inventories

Use of GB
by countries
outside of
Europe

Parties need
to better
track
progress
against ERCs

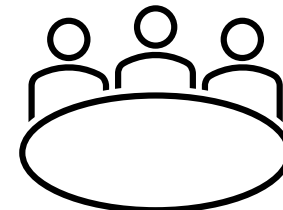
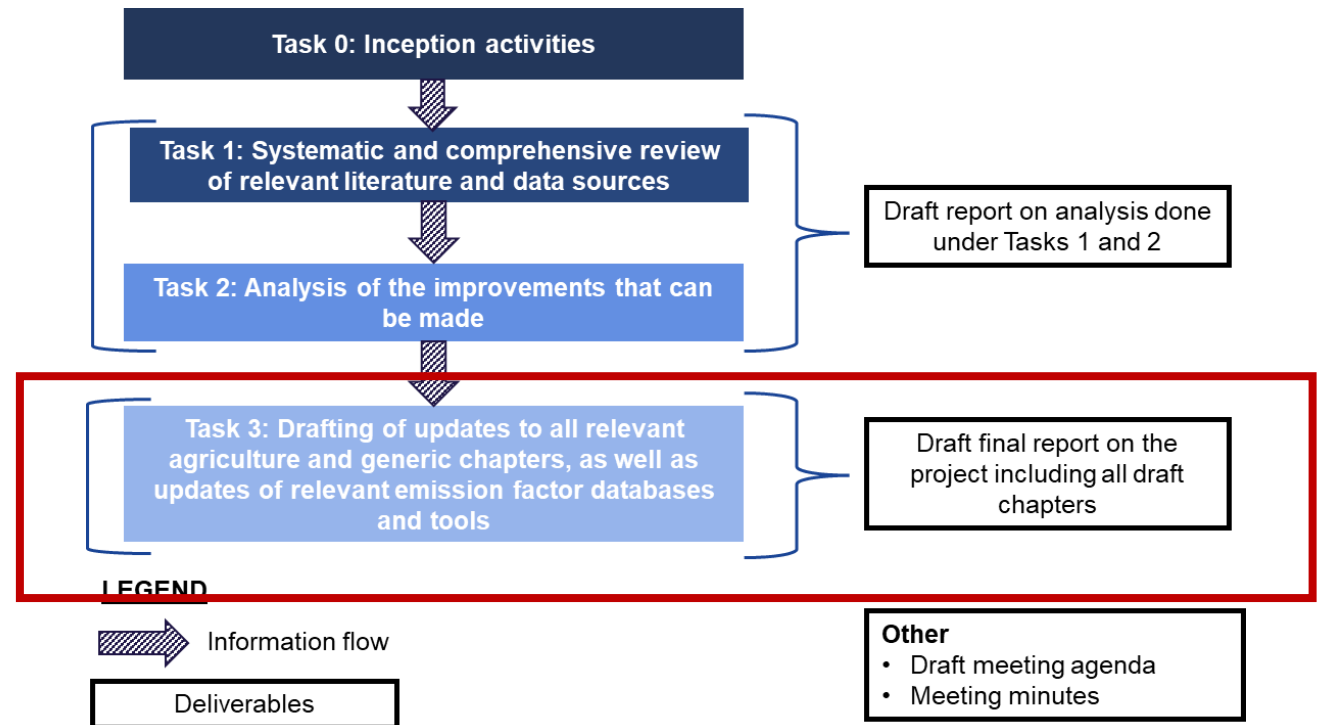
NH₃
abatement
impact on
other
pollutants?

- Updates are being funded by the European Commission, DG Environment*



Current status:

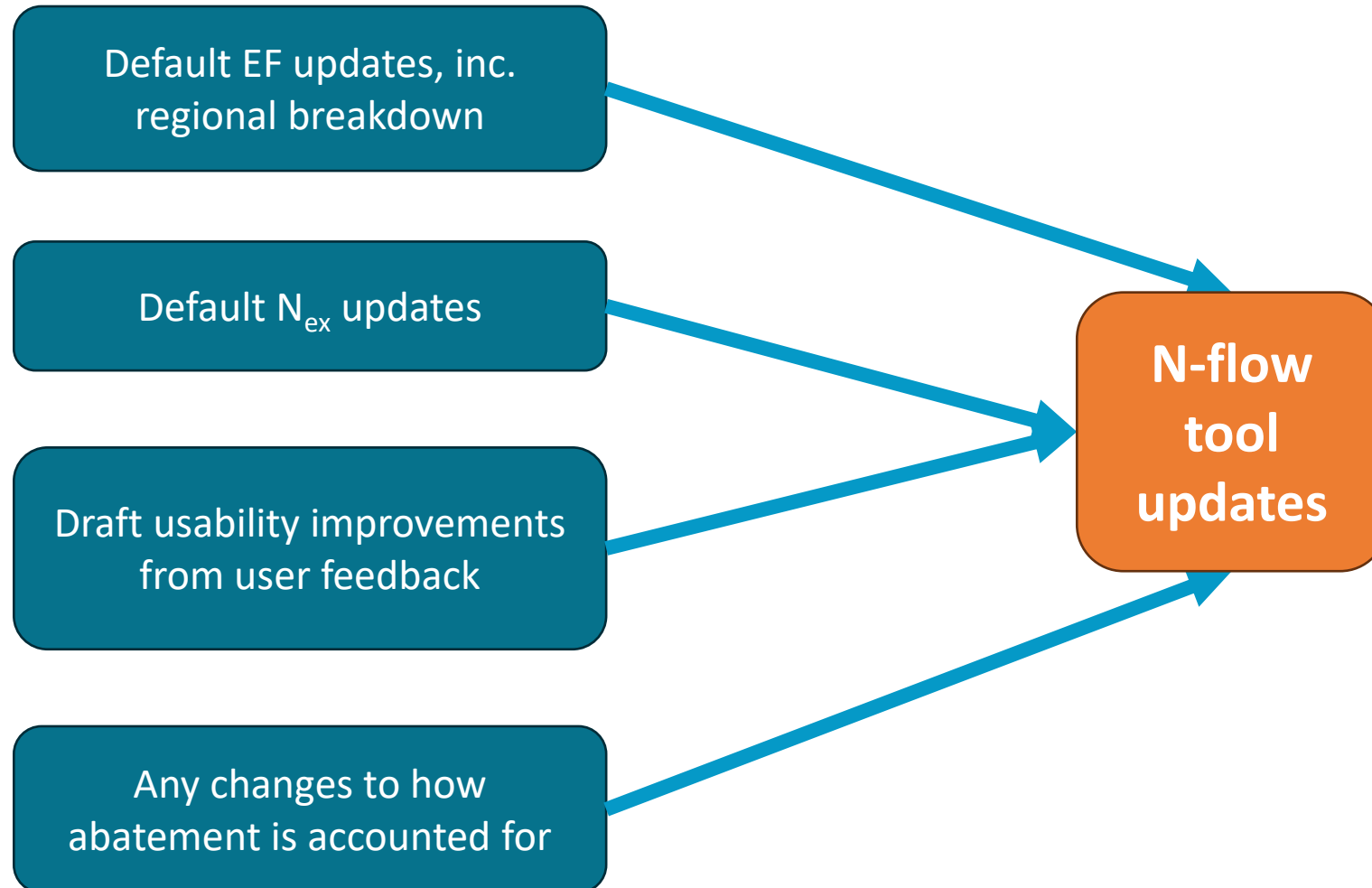
- Completed the literature review and planning of updates to be made
- Some draft changes in agriculture chapters already shared with ag&nature panel
- Other updates to be drafted by end of August 2026
- **We are seeking as much discussion and feedback from TFEIP expert panel members as possible!**



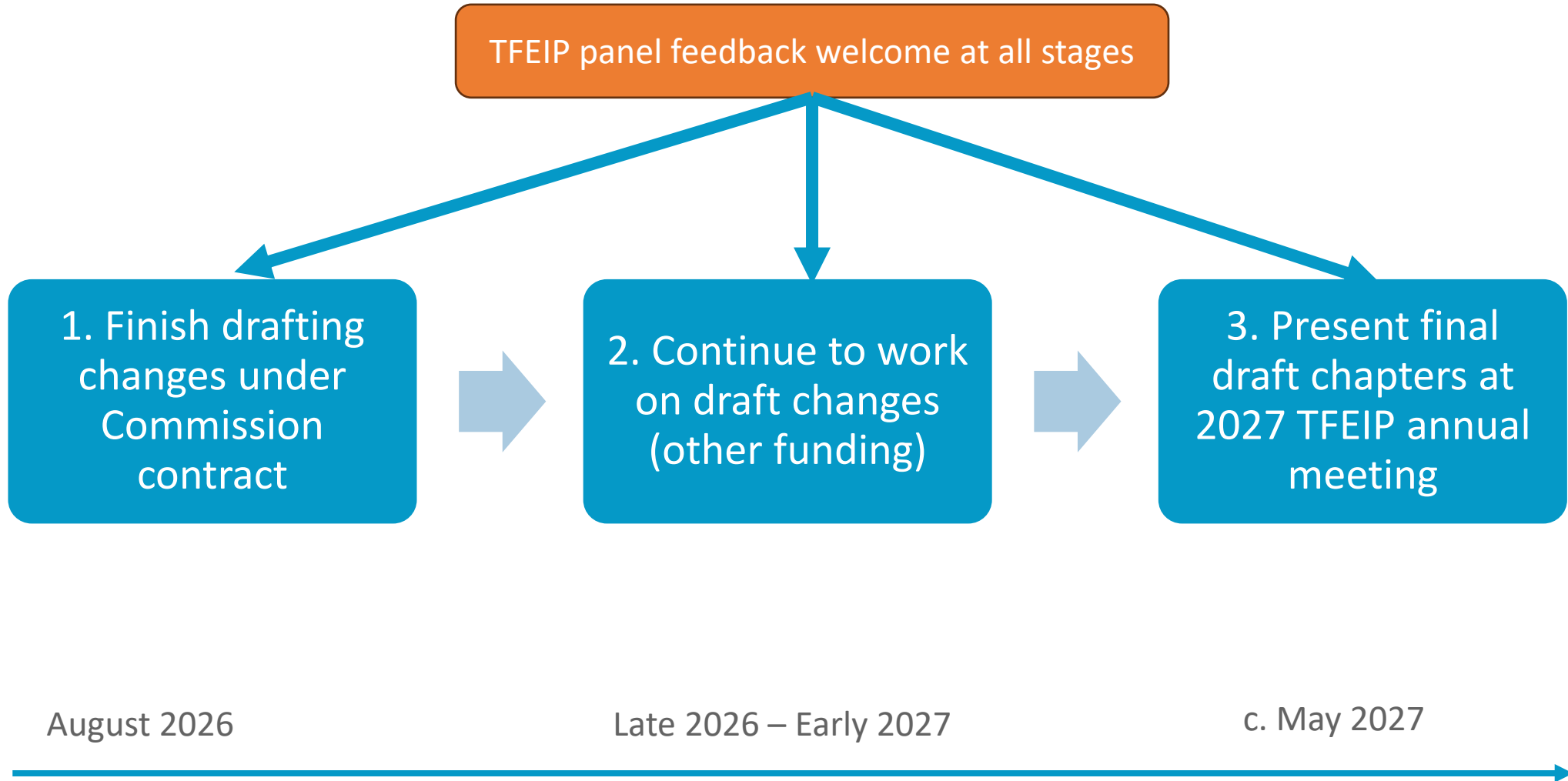
Improvement	Status of update
Need for guidance on integration of (NH ₃) abatement options	Draft additional text added, covering: <ul style="list-style-type: none">- Data sources- Documentation requirements for measure uptake and abatement efficiency (specific reference to urease inhibitors evidence requirements by Hutchings et al 2024)- Calculation options- Use of installation level data reported under IED (in progress)
Guidance on NH ₃ abatement impacts on NOx and NMVOC	NOx: Summary of key interactions as identified in the UNECE guidance on integrated sustainable nitrogen management NMVOC: Draft text added outlining potential impact of measures, esp. acidification (not quantitative)
Update reference percentage contributions/indicators	Tier 2 NH ₃ EFs for the N-flow algorithm have been reviewed using the DATAMAN database – presentation to follow.

Improvement	Status of update
Review and update of default emission factors including EFs for new housing systems and new mitigation options	Tier 2 NH ₃ EFs for the N-flow algorithm have been reviewed using the DATAMAN database – presentation to follow.
Review references to the 2006 IPCC Guidelines	2019 Refinement default values of N _{ex} added to table 3-10 (including Western vs. Eastern Europe split), and N ₂ O EFs updated with 2019 Refinement values (for use in Tier 2 N-flow algorithm). - Tier 1 EF updates to follow
More guidance on use of country-specific EFs	Guidance to be drafted. Will include guidance on measurement campaigns and documentation
Broaden regional scope / geographic disaggregation of EFs	Regional differences in Tier 2 NH ₃ EFs have been reviewed using the DATAMAN database – presentation to follow.
Knowledge of PM and NMVOC emissions	Draft text added regarding recent research into PM and NMVOC emissions, including BAT requirements and abatement options. Clarification of expected application of Tier 1 PM Efs taking into account X _{hous} .
Improve the explanation of the Tier 2 NMVOC algorithm	Draft text updated

Improvement	Status of update
Update guidance on NO _x emissions from agricultural soils	In progress – text to add summarising latest research (including evidence from the earlier presentation).
Small editorial corrections (from GB issues log) where feasible	Drafted, including: <ul style="list-style-type: none">- Correction to units in NMVOC EFs from cultivated crops in tables 3-4 and 3-5- Clarification of definition of activity data for NH₃ emissions from crop residues (3Da4)



- Changes to be drafted once all changes to chapters are finalised



- **Ease of inclusion of abatement efficiency of measures**
 - Is inclusion of a measure as Category 1 in the UNECE Ammonia Mitigation Guidance sufficient justification for inclusion?
 - Validity of using the mean or middle-of-the-range abatement efficiency, due to lack of data on a country-specific abatement efficiency.
- **Impact of NH₃ abatement on NO_x and NMVOC emissions**
 - For NO_x emissions from soils, any thoughts on using m_{returned} as the activity data rather than m_{applic} would be reasonable? i.e. assuming most NH₃ emission occur before NO_x emissions?
 - Appetite for more research on NMVOC emissions from silage and housing under different NH₃ abatement measures
- **Strength of evidence for updating the NO_x EFs from agricultural soils**

