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# Task Force on Reactive Nitrogen



Co-chairs: Tommy Dalgaard, Cláudia Marques-dos-Santos, Mark Sutton

Lead country: Denmark

**Report to the 9th TFTEI Annual Meeting. Warsaw, Poland 12-13 June 2023**

***Cooperation with the TFIAM, TFICAP, TFRN, EECCA Countries and SEE***

# **New policy brief and guidance in collaboration with the TFTEI**

## **Co-mitigation of methane and ammonia emissions from agricultural sources**

*Policy Brief and Guidance*

Submitted by the co-chairs of the Task Force on Reactive Nitrogen\*, May 2023.

*Thank you to the Task Force on Techno-Economic Issues (TFTEI) for the supporting draft technical measures background guidance document, delivered via the Italian Council for Agricultural Research and Economics (CREA).*

# Methane and ammonia from agriculture

Table 1. Anthropogenic sources for emissions of methane and ammonia in the EU, and a similar distribution expected for the UN-ECE region.

Source of emission	Methane <sup>1</sup>	Ammonia <sup>2</sup>
Agriculture	56 %	93 %
- Livestock and livestock manure	45 %	74 %
- Other	10 %	19 %
Waste (household, sewage, garden)	1 %	24 %
Energy industry and other sectors	20 %	6 %

1) 2021 data: <https://climate-energy.eea.europa.eu/topics/climate-change-mitigation/greenhouse-gas-emissions-inventory/data>

2) 2019: data: <https://www.eea.europa.eu/publications/lrtap-1990-2019>

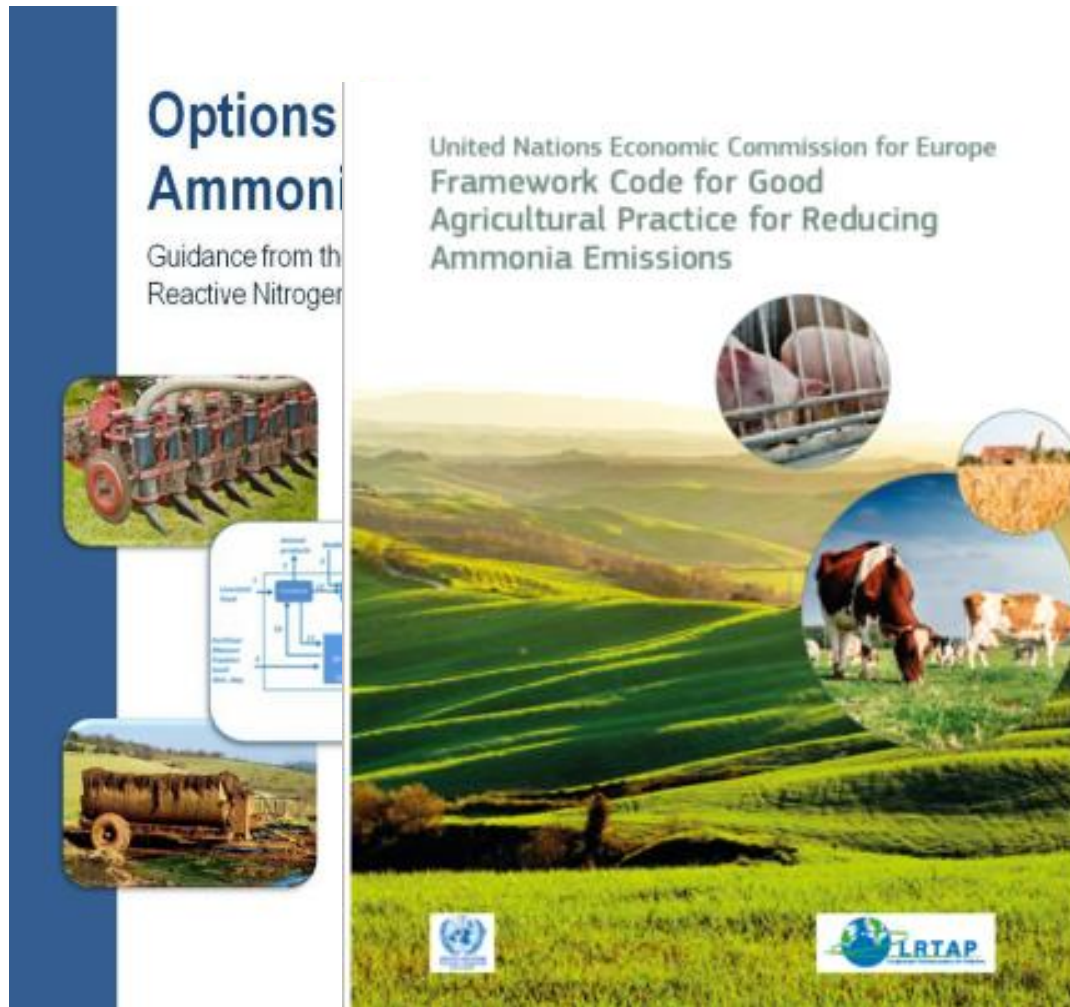
# Principles for measures related to livestock, manure and Integrated nutrient management

- Measures which reduce both methane and ammonia
- Measures which reduce one pollutant but has no effect on the other
- Measures which reduce on pollutant but increase the other



# EPMAN – ammonia guidance

- Co-chairs Shabtai Bittman (Agriculture & Ag Food Canada), and Barbara Amon (ATB-DE)



Revision process started

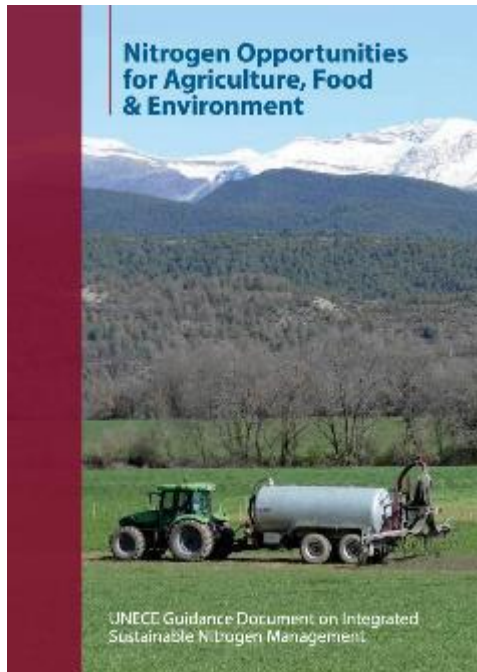
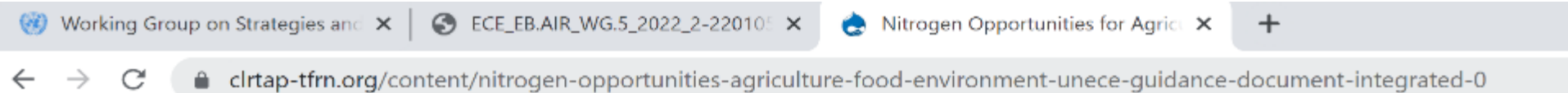
(proposed 2 yr process for discussion)

Alberto Sanz-Cobena on board



# Integrated N guidance document

[https://unece.org/sites/default/files/2021-04/Advance%20version\\_ECE\\_EB.AIR\\_149.pdf](https://unece.org/sites/default/files/2021-04/Advance%20version_ECE_EB.AIR_149.pdf)



## Nitrogen Opportunities for Agriculture, Food & Environment: UNECE Guidance Document on Integrated Sustainable Nitrogen Management

Submitted by Natalie on Mon, 21/11/2022 - 12:26

Publication Type:

Report

Authors:

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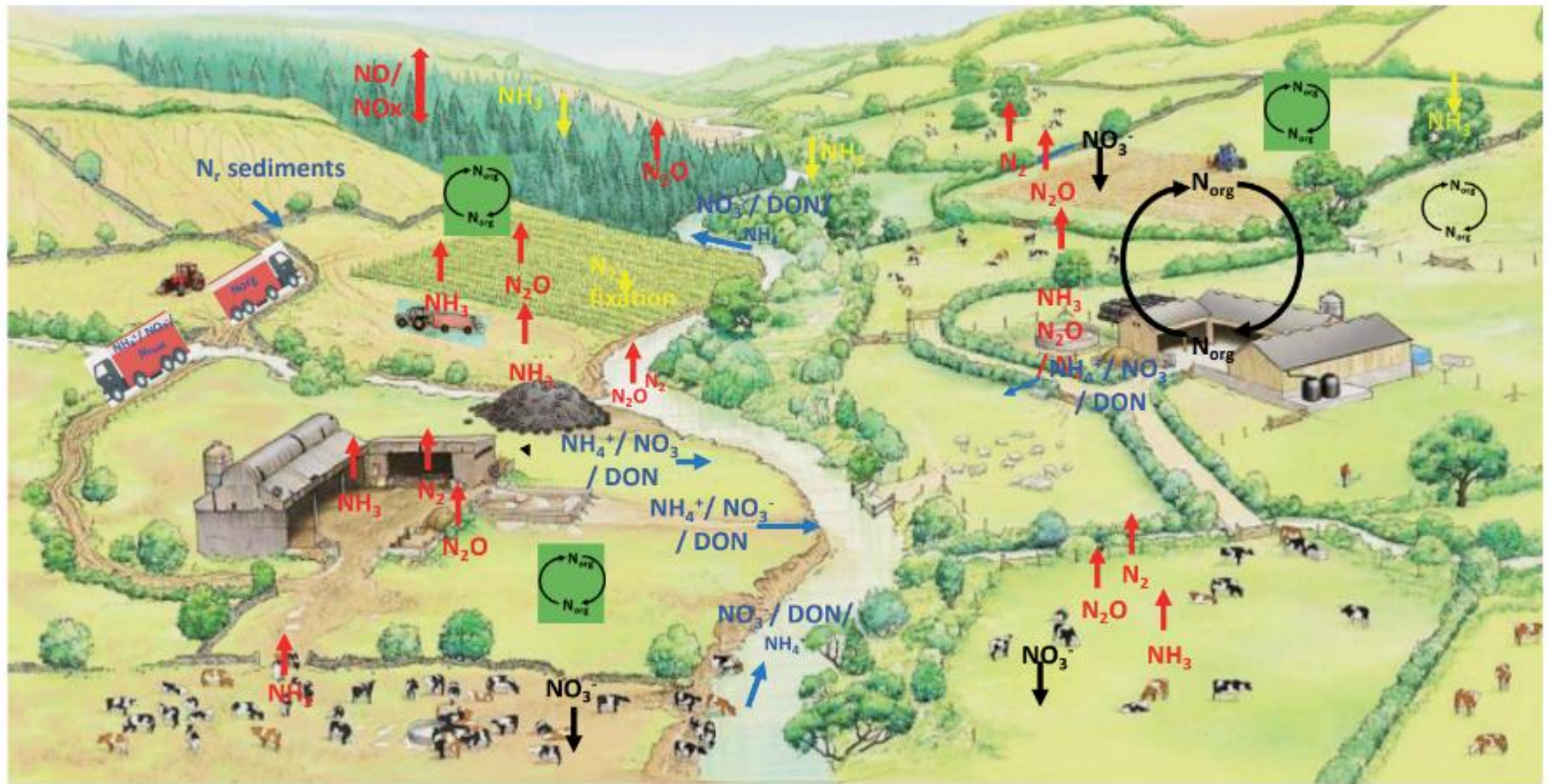
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**Figure VI.1:** Simplified overview of landscape N, flows showing source and sink functions of landscape elements such as farm buildings, fields, forests, pasture etc. for various N, forms





# Further TFRN/TFTEI and other cross task force activities

- Green Ammonia as a fuel is an upcoming topic, with risks of future NO<sub>x</sub>, N<sub>2</sub>O and NH<sub>3</sub> emissions
- TFTEI has just submitted to the Secretariat the Draft Guidance Document on Shipping, regarding the emerging issue of ammonia fuel.
- Workplan collaboration with other task forces and bodies, TFIAM, TFICAP, TFTEI etc.