

Task Force on Reactive Nitrogen

Good practices to strengthen the implementation of air pollution-related policies, strategies and measures

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Lead country: Denmark

Status report, WGSR 55, Geneva

31 May 2017

Aim of TFRN (EB decision 2007)

“the long-term goal of developing technical and scientific information, and options which can be used for strategy development across the UNECE to encourage coordination of air pollution policies on nitrogen in the context of the nitrogen cycle and which may be used by other bodies outside the Convention in consideration of other control measures”

Progress Report 2016-2017

- Dissemination of ECE Framework Code for GAP to reduce NH₃ emission (living document, web, share TFTEI clearing house)
- Gathering task on National Ammonia Abatement Codes (NACs) for good agricultural practices, re the Göteborg protocol
- Collaboration links: UNEP, GEF / INMS, OECD, WHO, ECE conventions on "Protection and use of transboundary waterscourses and lakes" and The Marine Conventions
- Workshop on "Joined-up nitrogen guidance for air, water and climate co-benefits", co-sponsored by the EU (Brussels, Oct 11-12 2016)
- Special session on "Agriculture and Air Pollution" (Geneva, June 1 2017): Conclusions and Recommendations to WGSR
- International conference and TFRN-12 annual meeting in Aarhus, DK
- Workplan 2018-2019 and forward

TFRN working groups

- EPMAN - Expert Panel on **Mitigating Agricultural Nitrogen**
- EPNB - Expert Panel on Nitrogen **Budgets**
- EPNF - Expert Panel on Nitrogen and **Food**
- EPN-EECCA - Expert Panel on Nitrogen in **EECCA countries**

EPMAN - Ammonia Framework Code

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Framework Code for Good Agricultural Practice for Reducing Ammonia Emissions

Published: April 2015

The Framework Code takes account of the latest scientific knowledge and experience in ammonia abatement, as described in the recent update of the guidance document on preventing and abating ammonia emissions from agricultural sources (ECE/EB.AIR/120). Its purpose is to provide the Convention's Parties with easily understandable information on the good practices that are necessary to reduce ammonia emissions from agricultural sources.

The document is for guidance only, and it is not a prescriptive set of measures for full adoption; alternative and novel measures and technologies can be considered by countries if evidence can be provided.



A living Framework Code

Options Ammonia

Guidance for
Reactive Nitrogen



United Nations Economic Co
Framework Code for
Agricultural Practice
Ammonia Emissions

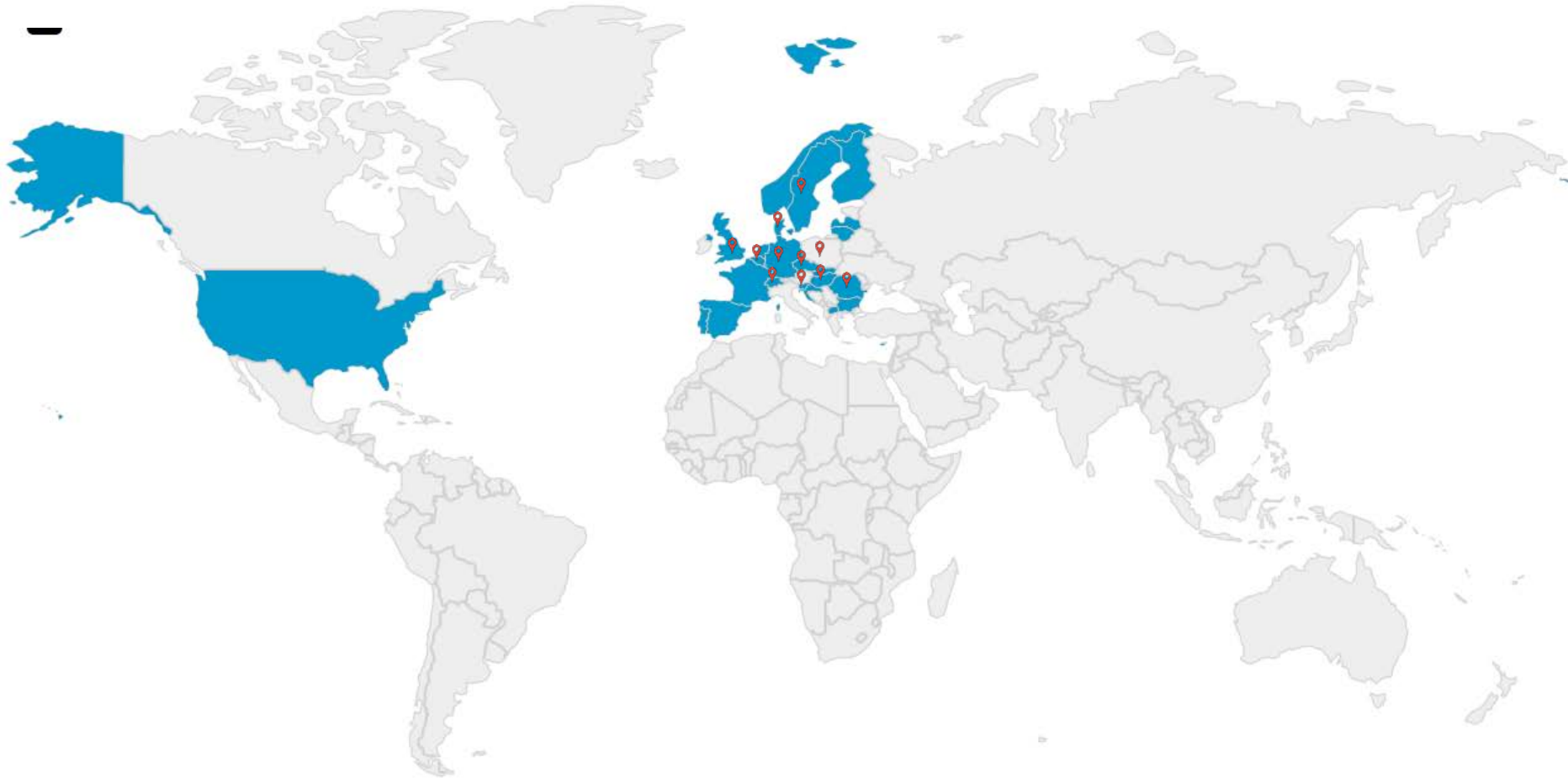


National Code of Good Agricultural Practice for Ammonia Abatement (NAC)

**11 out of 25 countries reported a
national code**

11 reported country NACs

■ Ratification
📍 NAC





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EPNB - Expert Panel on Nitrogen Budgets

The **Expert Panel on Nitrogen Budgets (EPNB)** provides expert guidance to the Task Force on Reactive Nitrogen in providing mass-consistent information of the fate of nitrogen in the environment. It was initiated at the first meeting of the Task Force in Wageningen, Netherlands, in June 2008 as an ad-hoc expert panel. Between 2008 and 2016, 14 meetings of the EPNB have been organized, many of which coinciding with regular task force meetings. The most recent one, EPNB-14, was organized as a virtual meeting, September 29, 2016.

EPNB prepared the "Guidance Document on National Nitrogen Budgets". The document was presented and approved at the 31st meeting of the Executive Body of the Convention on Long-Range Transboundary Air Pollution. The document can be downloaded from [here](#). There is also a [French](#) and a [Russian](#) version available.

The detailed provisions of creating N budgets for six out of eight pools defined in the GD (and a general overview on definitions and principles) have now been provided by EPNB. These Annexes to the GD are now available for public review. Please download and use the annexes provided as one file [here](#) (~7 MB file size). This file version includes all comments received by September 21, 2016. Additional feedback especially on topics that appear during use of these documents will continue to be highly valued even after full adoption. Please download and fill in the [review sheet](#) for your feedback, and send it by e-mail to the EPNB co-chairs (Wilfried Winiwarter, winiwarter(at)iiasa.ac.at, and Markus Geupel,

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EPNB – Nitrogen Budgets

- Co-chairs Wilfried Winiwarter IIASA-AUS, and Markus Geupel, UBA-DE
- Guidance documents available in English, French and Russian
- All annexes to the guidance document, except two, are made available online (after international review)
- NEC – EU Directive recommends that Member states may establish national N budgets
- More info at <http://www.clrtap-tfrn.org/epnb>

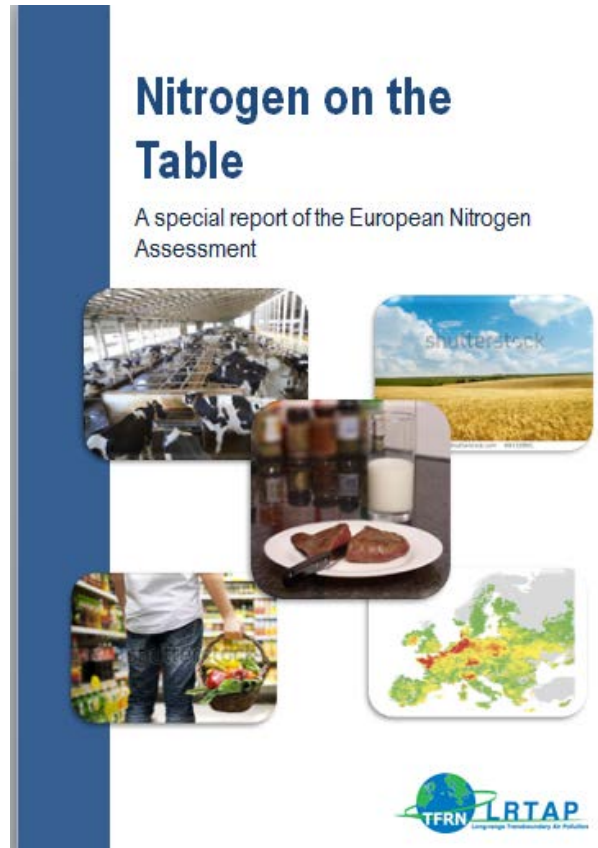
EPNB – Ongoing work

1. Finalization of the 2 last Annexes (2017)
2. Further development of Agriculture Annex together with FAO Technical Advisor Group (ongoing)
3. Full application of the Annexes to the German Case including a User Workshop in Germany (2017) – further test applications are strongly welcomed, as also reported in a coming report from the Nordic countries
4. Development of a draft reporting template within the German project (2017)
5. Translation of the „General Annex“ into Russian (depends on the availability of funding)

EPNF – Nitrogen and Food

New co-chairs Susanna Kugelberg, WHO; and Benjamin Bodirski, PIK, DE (in addition to Adrian Leip, EC-JRC)

- Opportunities for farm and food chain mitigation versus changes in consumption (supply vs demand)
- Contribution of waste reduction to reducing demand of high N-footprint food
- Health effect of diets and health effect of agricultural Nr emissions



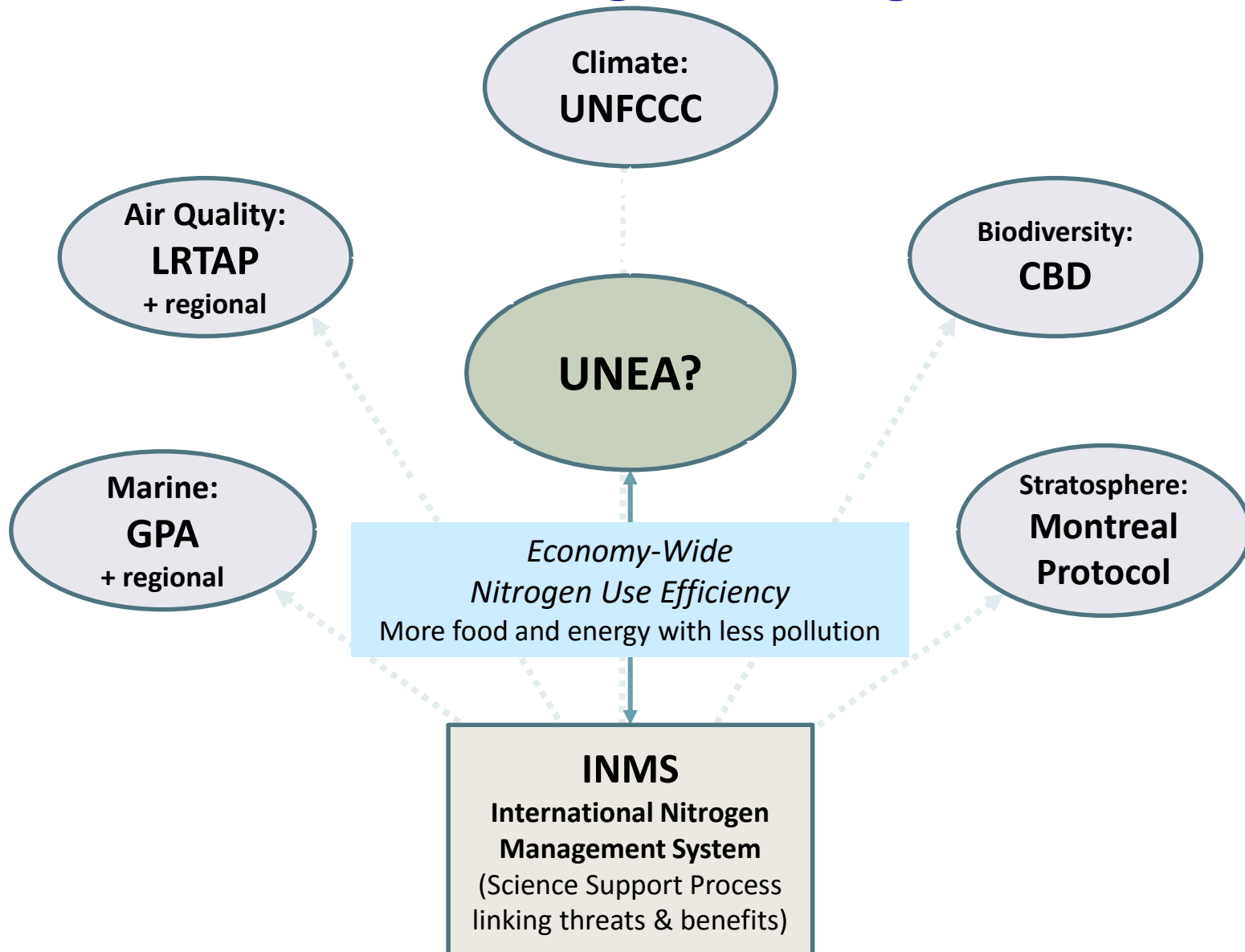
EPN-EECCA panel tasks

- Special link of this expert panel with an East Europe demonstration region funded by INMS
- INMS partnership with GEF and UNEP
- Linking Convention activities with other conventions at global-scale

Towards a joined-up nitrogen guidance for air, water and climate co-benefits

- Theme 1: Principles of overall N management
- Theme 2: Livestock, manure storage and manure processing
- Theme 3: Field application of organic and inorganic fertilisers
- Theme 4: Land use and landscape management

Joined-up N guidance: Counting the co-benefits of better nitrogen management



TFRN-12 meeting in Aarhus, Denmark

Innovative solutions for a SUSTAINABLE MANAGEMENT OF NITROGEN IN AGRICULTURE

NEXT WORKSHOP ON N – TFRN 12

SustainableNconference.dnmark.org

**International
Conference**

JUNE 26-28

**Task Force
on Reactive
Nitrogen
workshop**

JUNE 29-30

**in
Aarhus
European
Capital of Culture
2017**

TFRN workplan for 2017–2018

- Follow-up to the “Air pollution and agriculture” workshop as part of WGSR-55, 1 June 2017
- Production of **technical notes** on for e.g.:
 - implementation of health impacts of nitrogen dioxide
 - new information on ecosystems impacts
 - Costs and benefits of emission abatement
- Provide **support to Parties**:
 - in particular **EECCA** countries (Eastern Europe, the Caucasus and Central Asia)
 - Implementation of **National Codes of Good Agricultural Practice for Ammonia Abatement (NACs)**