



Welcome to first meeting of
**Expert Panel on Mitigation of Agricultural
Nitrogen emissions (EPMAN)**

FAST Conference
MILANO, ITALY,
12 November 2008



Task Force on Reactive Nitrogen (TFRN)

Secretariat: Clair Britton

Chairs: Mark Sutton & Oene Oenema

Three expert panels

- EPMAN; Chabtai Bittman & Martin Dedina
- EPNBB; Wilfried Winiwarter
 - (EPNFood); ?

General objectives of the TFRN:

- To provide technical information to be able
 - to develop an integrated vision and approach to abatement of Nr emissions and effects;
 - to improve coordination on the development of integrated Nr policies;
 - to search for synergies between policies on air pollution and other policies;

Current activities of the TFRN:

- a) Expert Panel on N balances and budgets
- b) Expert Panel on mitigation of agricultural N emissions
- c) (Expert Panel on protein in diets)
- d) European Nitrogen Assessment (ENA)
- e) Analyse the linkages across Convention,
plus Convention Biological Diversity and Marine
Conventions
- f) Develop Nr related options for revision of the
Gothenburg Protocol



Expert Panel on N balances and budgets (EPNBB)

Objectives

- To provide overviews of existing budgeting approaches;
- To identify weaknesses in current N balances, and provide suggestions for improvements;
- To analyze N flows and to derive key indicators, which may help policy makers to set priorities.



Expert Panel on Mitigation of Agricultural Nitrogen emissions (EPMAN)

Objectives

- To develop options for a more integrated approach to mitigate Nr emissions from agriculture;
- To continue work of the former Ammonia Expert Panel;
- To contribute to Gothenburg Protocol revision;
 - Annex IX,
 - Code of Good Agricultural Practice,
 - Guidance Document



Possible contributions of TFRN to the revision of Gothenburg Protocol, as reported to WGSR (1)

To provide technical information related to:

- New insights and information related to NH_3 abatement measures, including possible synergies and trade offs;
- Integrated measures for decreasing NO_x , NH_3 and N_2O emissions to air and NO_3 -leaching to water;
- Highlight interactions between the measures in Gothenburg Protocol and Climate Change Policy;



Possible contributions of TFRN to the revision of Gothenborg Protocol, as reported to WGSR (2)

To provide technical information related to:

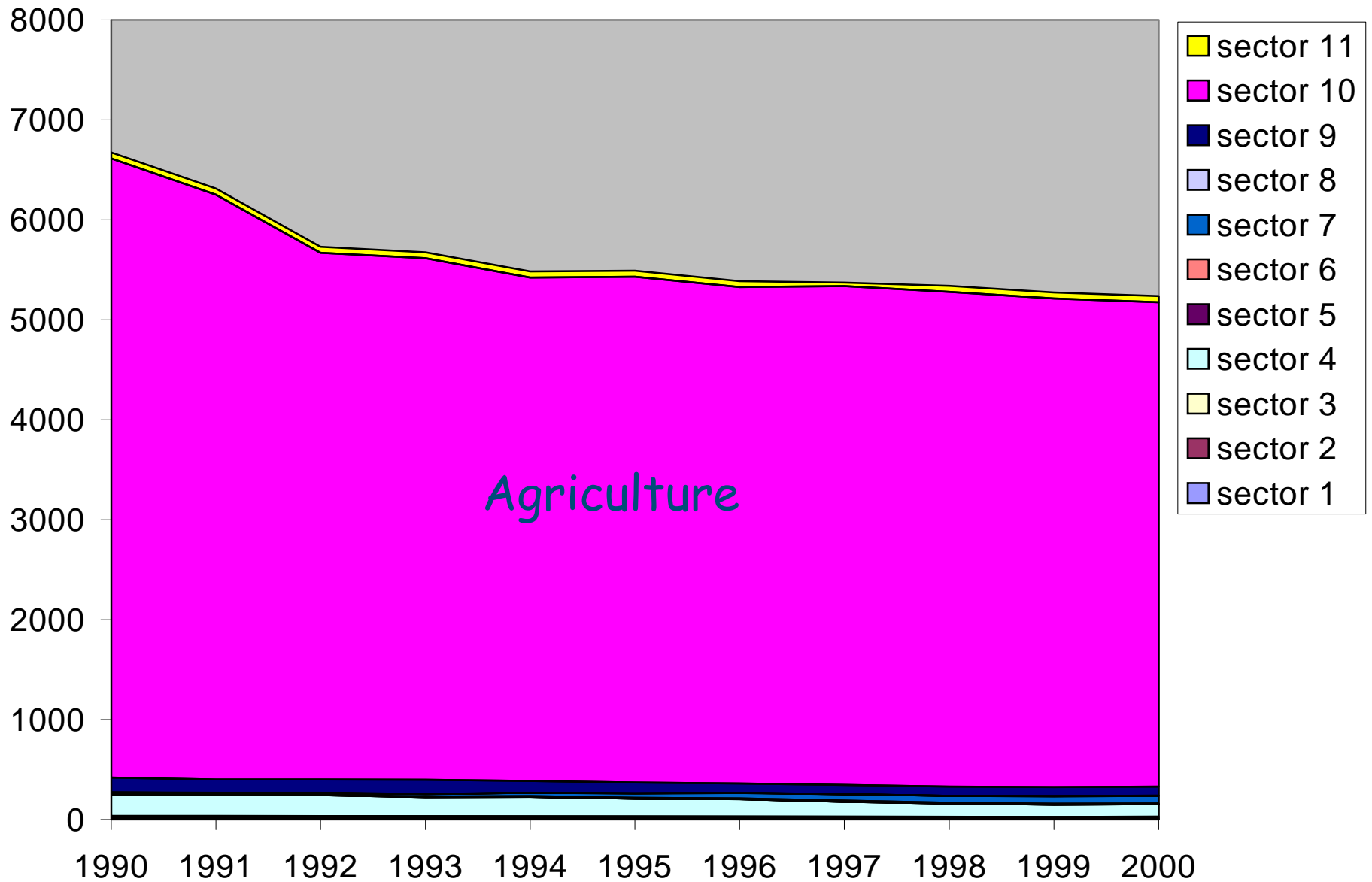
- the roles of managerial measures and structural measures on NH_3 emissions;
- integrative indicators for N use efficiency in agriculture;
- economic instruments for effective implementation of policies aimed at decreasing N emissions
-



Review of Gothenborg Protocol (Report of TFIAM/CIAM, 2007)

- Downward emissions trends, but effects are less than initially thought;
- Only modest decreases in NH_3 emissions;
- To achieve objectives, additional measures needed;
- These further measures need to be considered in close conjunction with other policies
- Emissions controls offered by non-technical measures and structural changes in agriculture, need to be considered

Agriculture is main source of NH3





Suggestions of the co-chairs of TFRN to EPMAN

- Review the three documents & revise where needed:
 - How to invite & encourage farmers to mitigate N emissions;
 - Greater considerations of interactions and synergies of measures as regards the various N species emissions
 - How to arrive at smarter, integrated mitigation strategies
More emphasis on animal feeding, especially (dairy) cattle
(using milk urea as indicator?)
 - Using N balances as N use efficiency indicators?



Outlook

- Recommendations of EPMAN have to be adopted by the TFRN (meeting in Garmisch, Germany, April 2009).
- Recommendations of TFRN have to be adopted by WGSR and the Executive Body (meetings Geneve, September 2009).
- Revision of the Protocol.....