

On the 1999 Gothenburg Protocol

TFRN proposal to contribute to its revision

Co-chairs TFRN



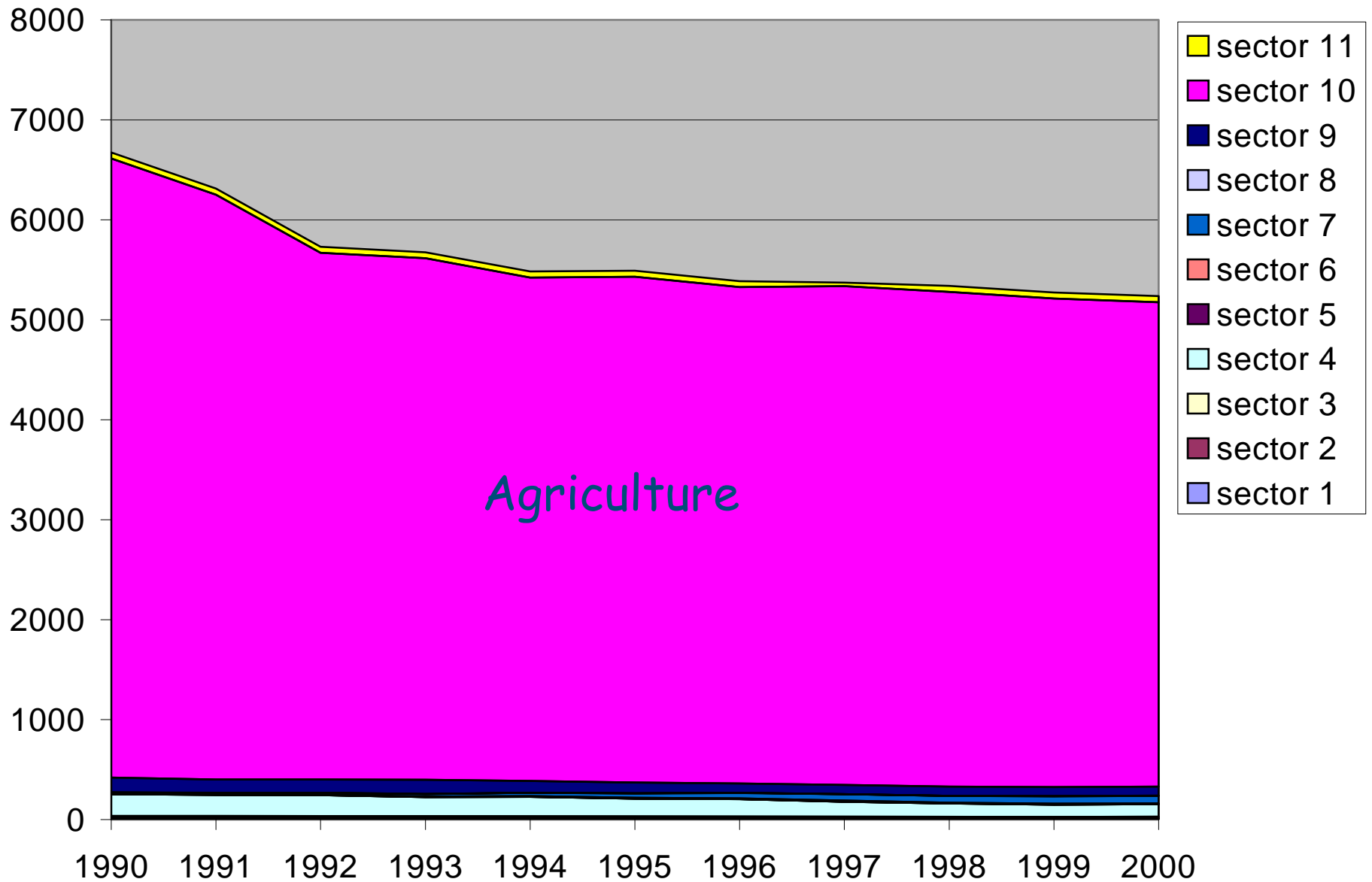
Purpose of this presentations

- Discuss some recent studies
- Proposal for possible contributions of the TFRN to the revision of the Gothenborg Protocol.

Review of Protocol (CLRTAP-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, transport, and energy use

Agriculture is main source of NH₃



EU Thematic Strategy on Air Pollution

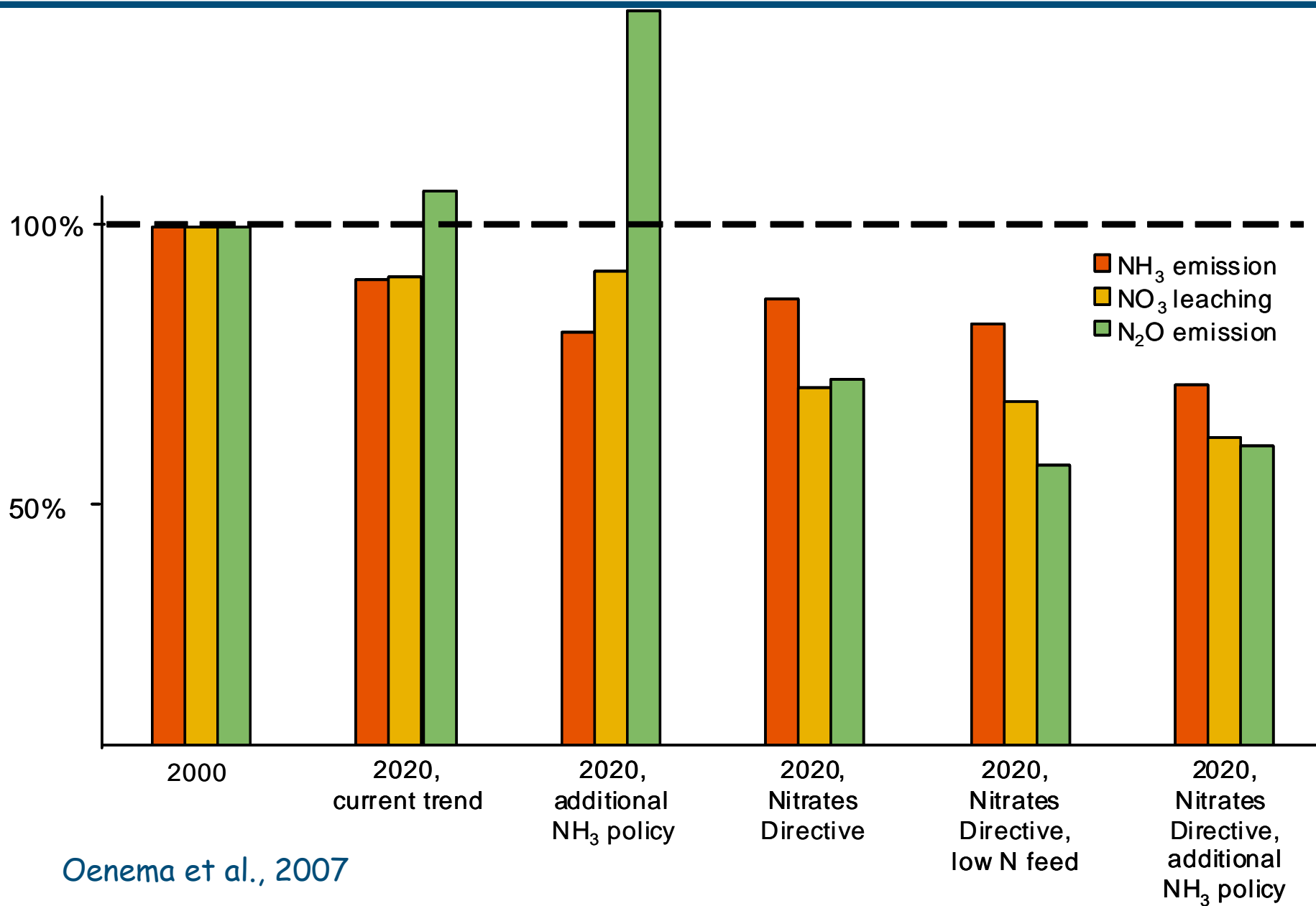
- Objective:
'to attain levels of air quality that do not give rise to significant negative effects on, and risks to human health and the environment by 2020'.
- Policies actions:
 - Making environment legislation work better
 - includes a revision (lowering) of the emission ceilings
 - Integrating air quality concerns into other policy areas:
 - expects a reduction in NH_3 emissions from agricultural sources

"Integrated measures to decrease NH₃ emissions"

■ Objectives:

- To analyze the effects of various policies on NH₃ emissions and other N emissions in EU-27.
- Define and assess most promising measures
- Explore possible modifications to the EU IPPC Directive

Results of scenario analyses



"Integrated measures to decrease NH₃ emissions"

■ Policy recommendations:

- Integrated N management as guiding principle
- Integrate abatement measures for NH₃ emissions and NO₃ leaching;
- Formulate targets for N use efficiency at farm level;
- Reward those farmers that go beyond certain standards;
- Spatial planning of N polluting agricultural activities;
- Involve the agro-complex: suppliers, processing industry, retail

Proposal: "Possible TFRN contributions to the revision of the Gothenburg Protocol" (1)

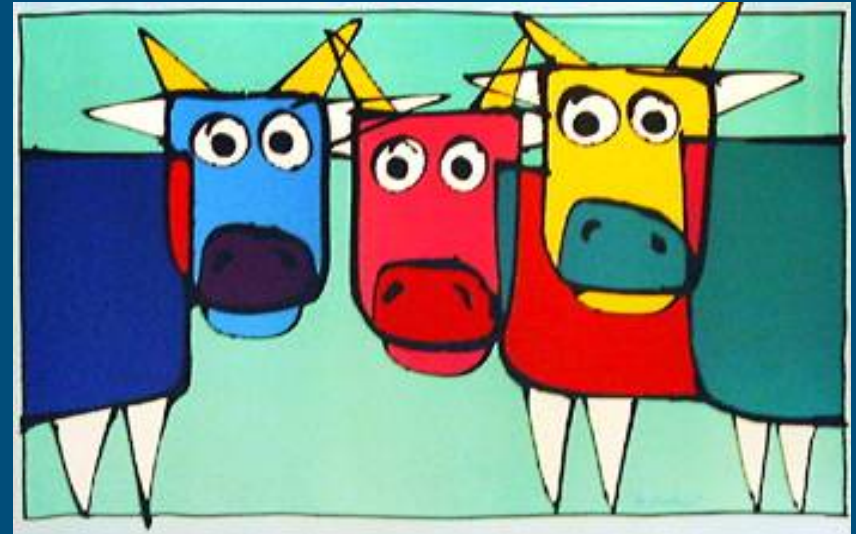
- To include explicitly the synergies and trade offs with abatement measures of N_2O emissions and NO_3 leaching;
- To further explore and define integrated measures for decreasing NO_x , NH_3 and N_2O emissions to air and NO_3^- leaching to water simultaneously;
- To discuss the interactions between the measures of the Gothenburg Protocol and possible measures of Climate Change Policy;

Proposal: "Possible TFRN contributions to the revision of the Gothenburg Protocol" (2)

- To fully recognize the important roles of managerial measures and structural measures, on gaseous N emissions;
- To promote integrative indicators for N use efficiency in agriculture;
- To define possible economic instruments for effective implementation of policies aimed at decreasing N emissions;

Thanks!

Questions?
Suggestions?



Agriculture is main source of NH₃

Trend in NH₃ emissions in EU-25 (1990-2001)

