

# Expert Panel on Nitrogen and Food

Proposal for approach and terms of reference

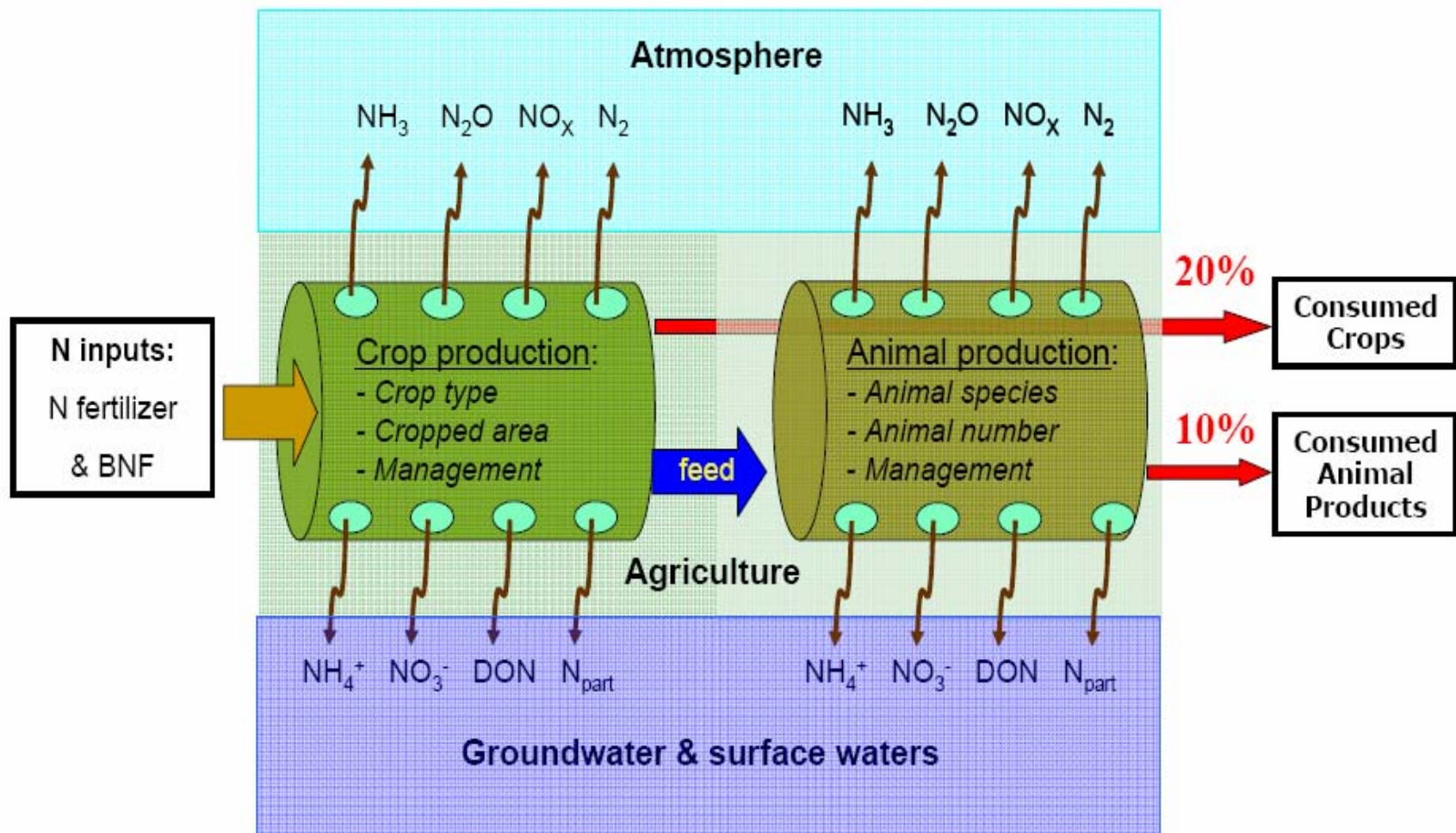
TFRN-3 Amsterdam  
November 24-25 2009

CO-CHAIRS:  
Christian Pallière (EFMA)  
and  
Henk Westhoek (PBL)

# Suggested tasks

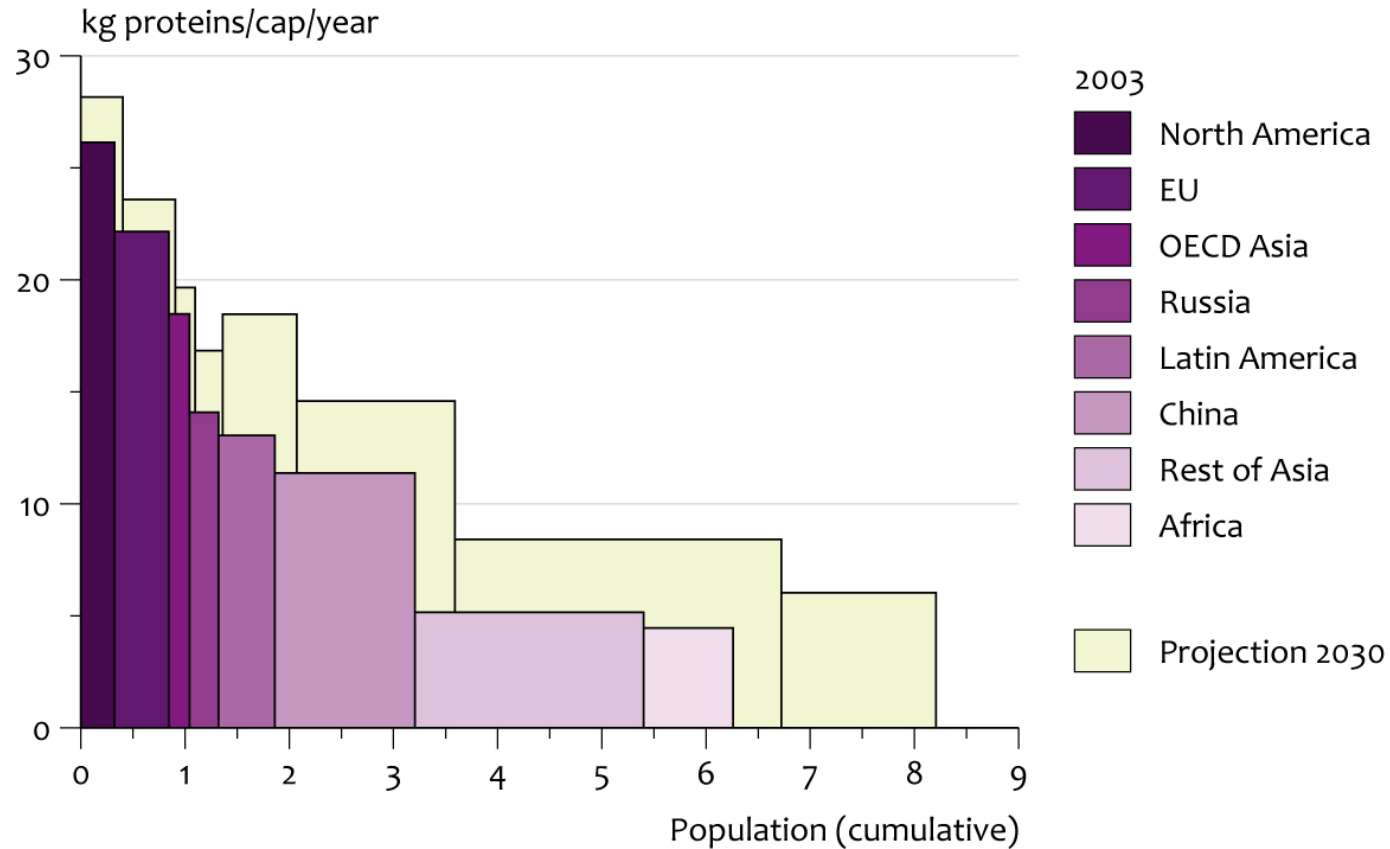
1. to create a **better understanding** of the relationship between **human diets and the N-cycle**;
2. to investigate **the effects a lower human intake** of plant and animal originated protein **on N emissions and the societal cost** for mitigation NH<sub>3</sub> and greenhouse gas emissions;
3. to investigate **additional side-benefits** of dietary changes, compared with technical measures, including effects on land use, greenhouse gas emissions and biodiversity.
4. to **investigate the translation of the WHO-recommendations** for protein into national requirements and to analyze the current human diets in (most) countries (parties of CLRTAP).

# Large N losses in production chain

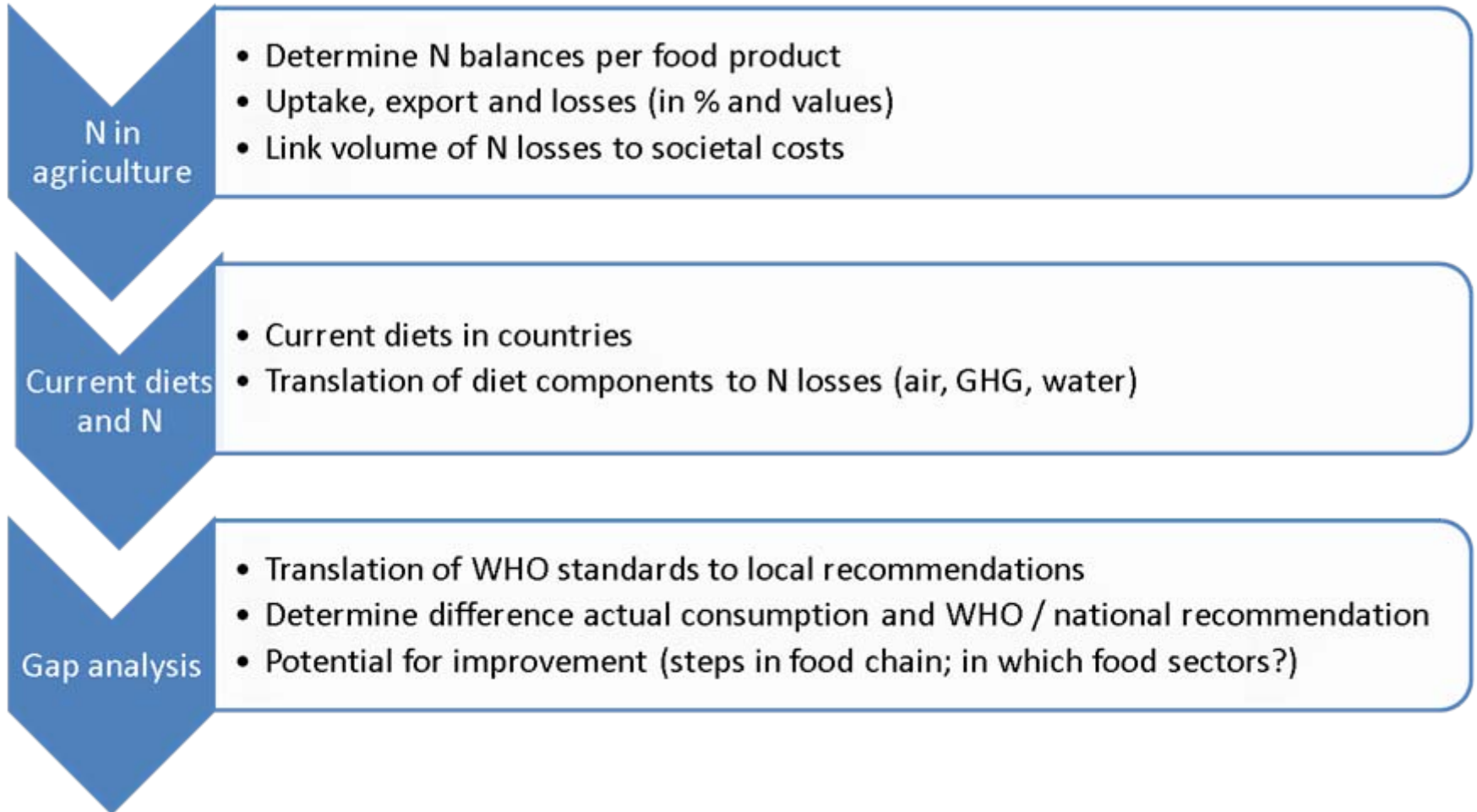


# Large differences in consumption of animal products

## Consumption of animal proteins per regio



# Suggested approach




# Suggested time frame

2009: Definition of task  
Invitation of experts



2010: 1-2 meetings  
First draft document



2011: 1-2 meetings  
Draft final document:  
internal and external review  
Adoption of final document by TFRN

# Expertise needed

Expertise on:

- Nutrition
- Nitrogen flows and losses in agro-systems
- Step from agriculture to food (amongst others: losses in the food production chain)