



**1st Meeting Task Force on Reactive Nitrogen
Wageningen, The Netherlands, 21 – 23 May 2008**

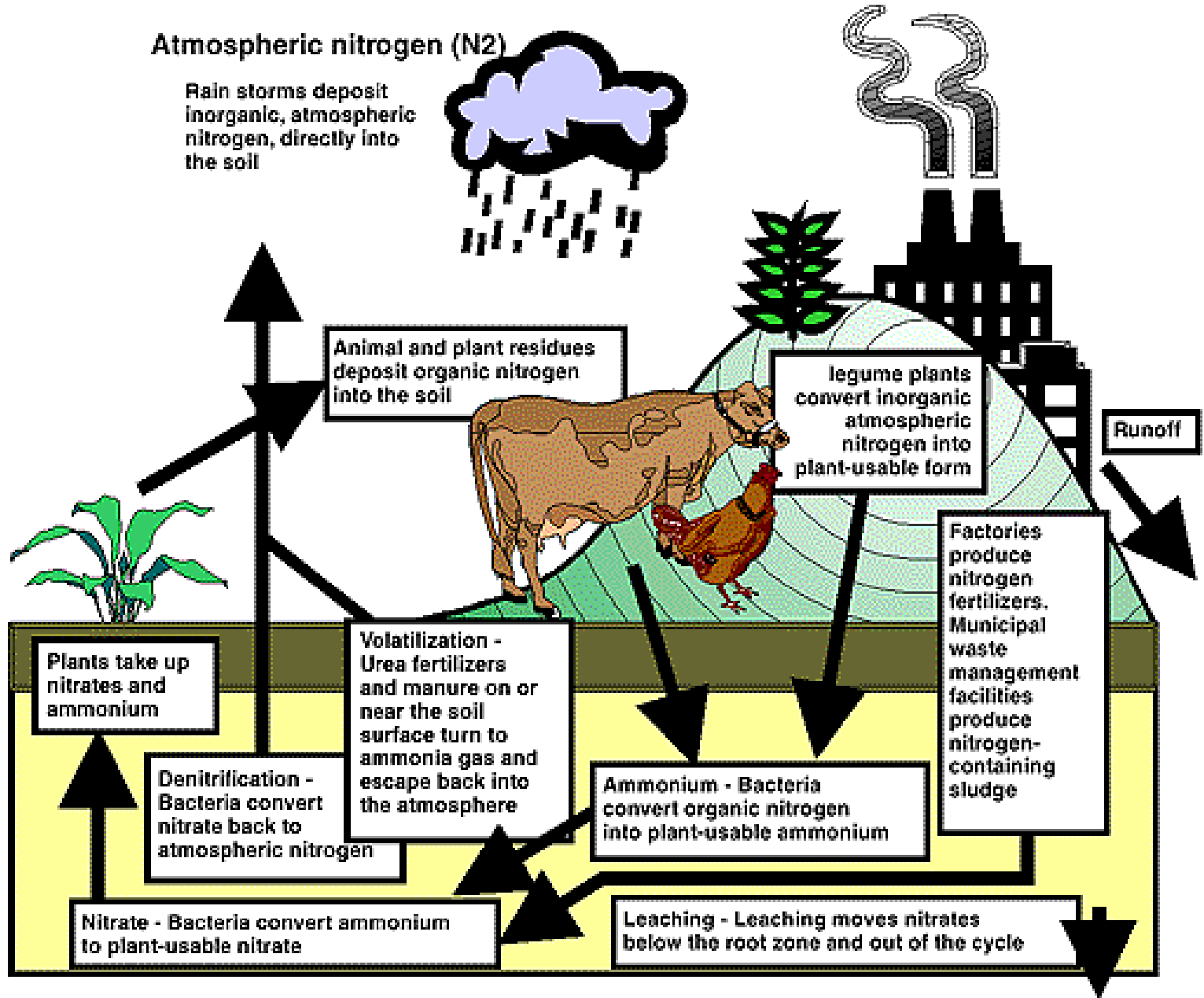
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Overview of presentation

- **Nitrogen emissions from agriculture**
- **Current policies**
- **Control measures**
- **Conflicts and new perspectives for emission control**
- **Expectations from policy**

Atmospheric nitrogen (N₂)

Rain storms deposit inorganic, atmospheric nitrogen, directly into the soil



Relevant Policies

Nitrates

- Nitrates directive
- Water Framework Directive

Ammonia

- IPPC Directive
- NEC directive (National Emission Ceiling)
- Thematic Strategy Air pollution

Climate (N₂O)

- Kyoto and other international ‘agreements’.

Nature

- Birds- and Habitats Directive

Control measures for agriculture

- **Housing systems for animals**
- **Manure application methods**
- **Spatial planning**
- **Fertiliser and manure application ceilings**
- **Other measures (e.g. catch crops, time of application, fertiliser free zones)**
- **Animal feed**

New perspectives on emission control

- **Housing systems**
- **Manure treatment**
- **Closing mineral cycles at different scales:**
 - global**
 - national**
 - regional**
 - farm level**

Expectations from policy

- Categorizing treated manures as fertiliser
- Spatial planning oportunities for manure facilities
- Financial stimuli
- Innovation / research
 - housing systems
 - feeding systems
 - fertilisers from manure

Challenging remarks

- Integrated nitrogen emission policy is missing
- Farmers have to deal with various (conflicting) policies and legislative measures
- Develop a system that:
 - targets total nitrogen emission from farming systems
 - provides (cost) effective tools to reduce emissions
 - gives farmers freedom to choose from these tools depending on their situation

Thank you

**Thank you very much for
your attention!**

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