

Wilfried Winiwarter, Albert Bleeker (co-chairs)

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## Task Force on Reactive Nitrogen

### Expert Panel on Nitrogen Budgets – 3 (Prague meeting)

report to TFRN

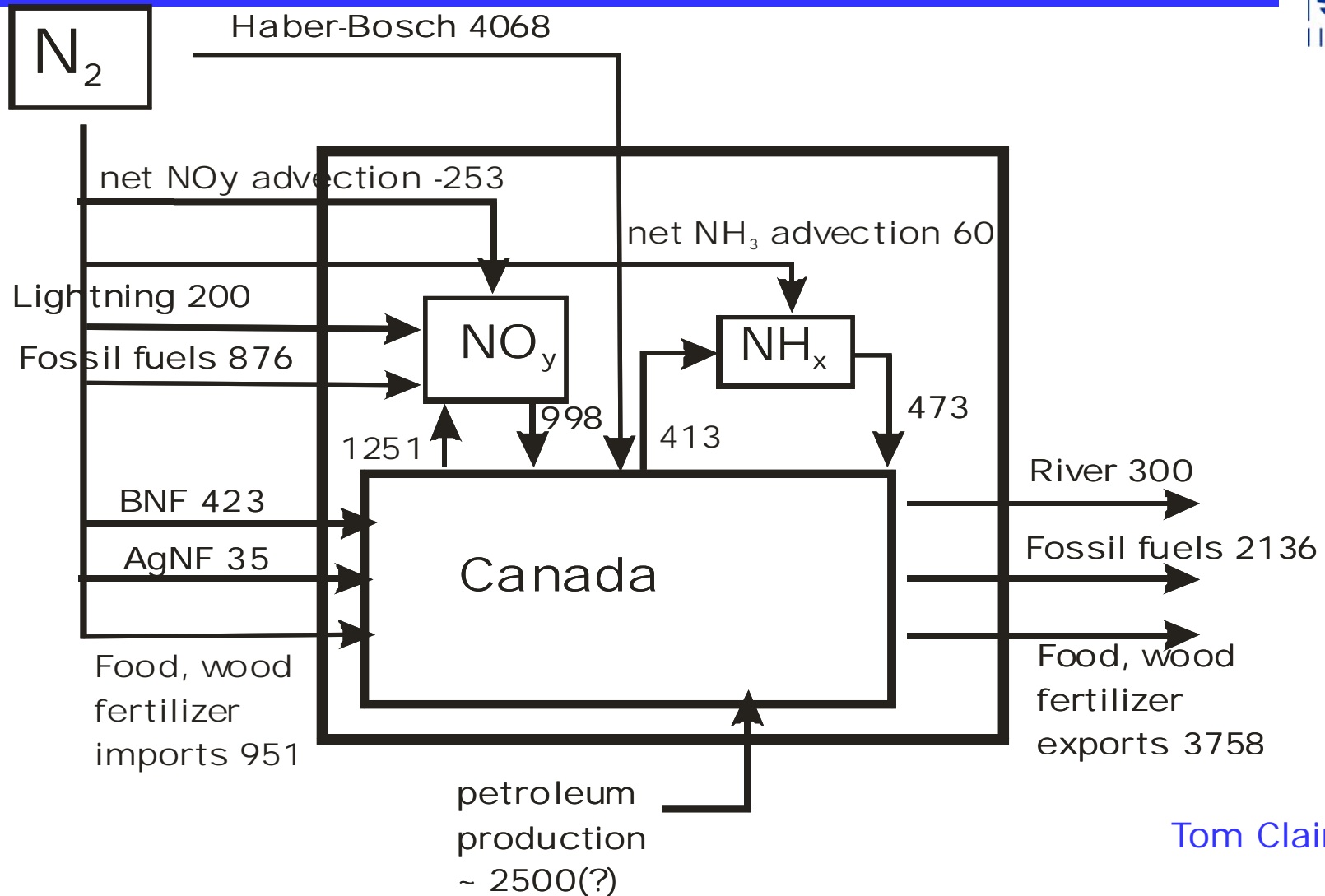
# EPNB Agenda

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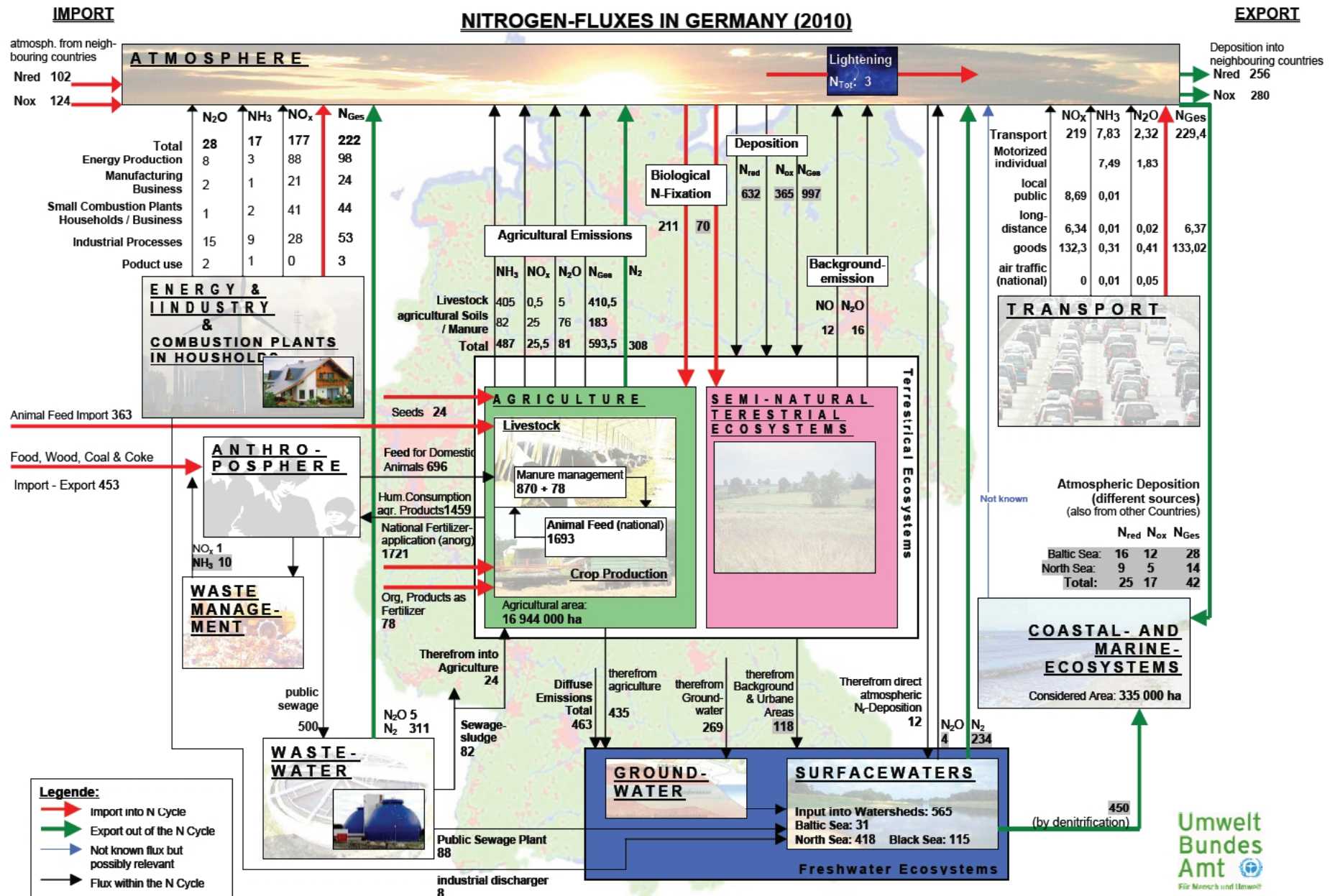
- A) Reports from related activities
- B) Country budgeting reports
- C) Status of N-budgeting guidelines
- D) Status of farm level budgets and their relationship to options as presented in Annex IX

# Simplified N budget for Canada



Tom Clair

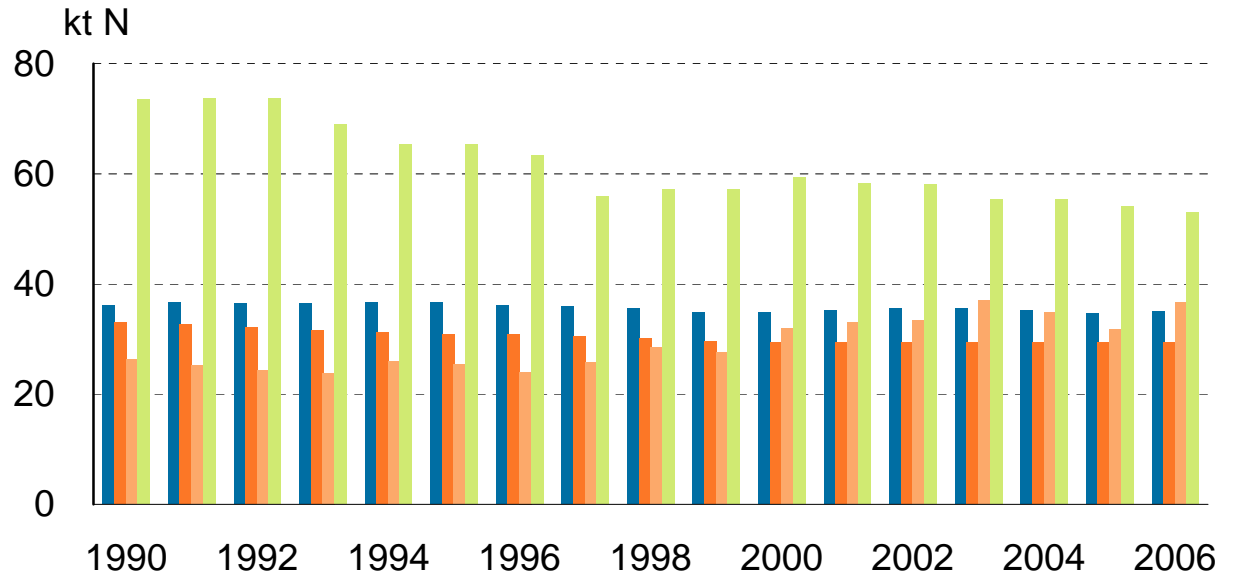
# Preliminary results: national N-budgeting map (Gg/a)



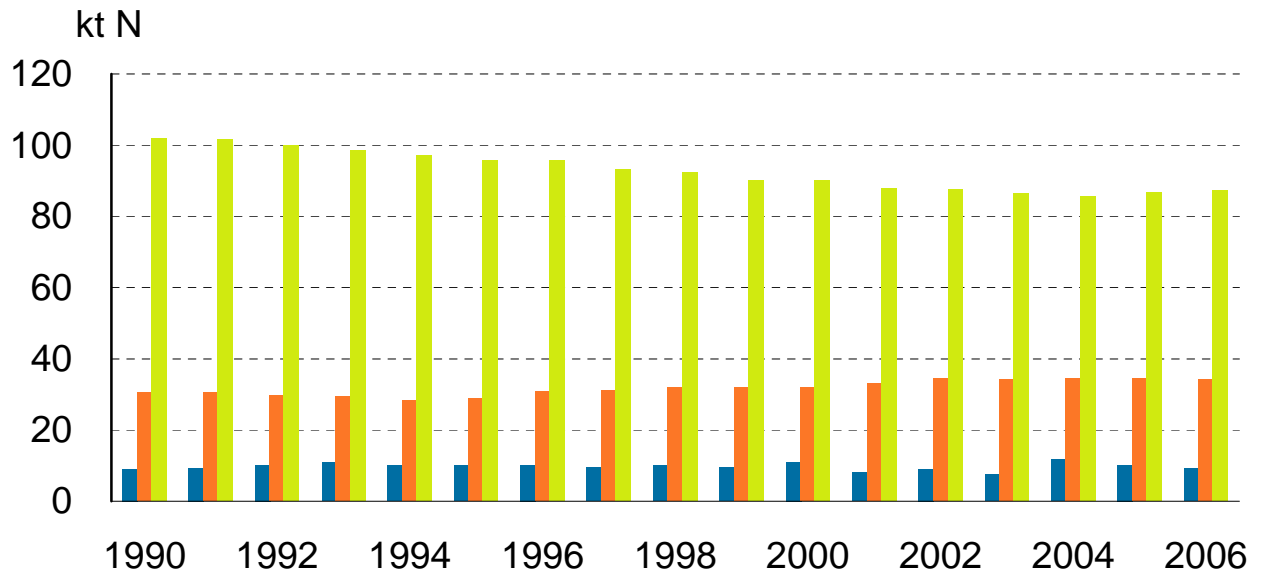
# Swiss Trends 1994-2005



- N-fixation
- deposition
- imported fodder
- mineral fertilizer

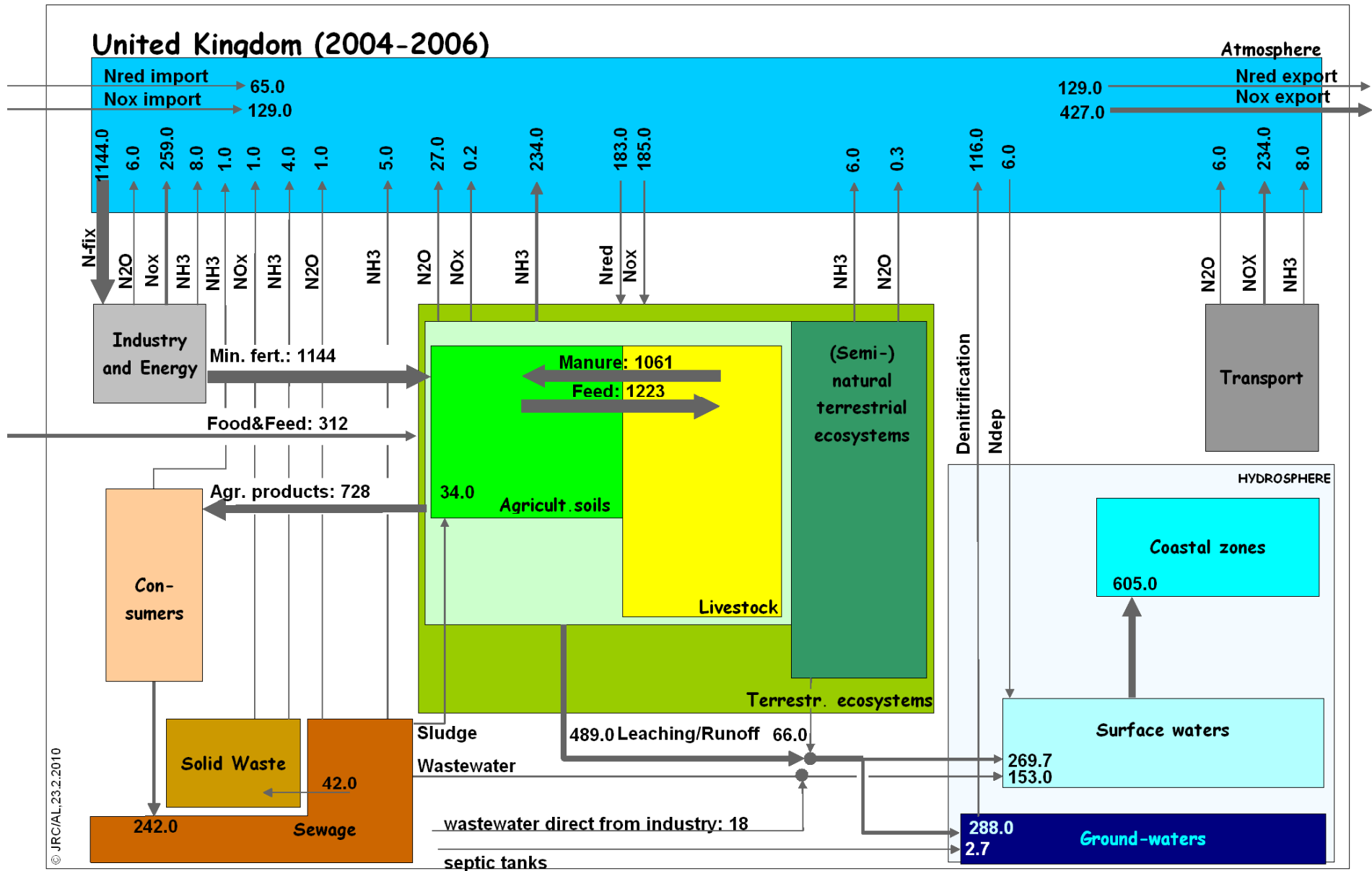


- vegetable products
- animal products
- manure (liquid and solid)



Jürg Heldstab

# UK budget on EPNB template



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Unit: kt N/year

Penny Johnes

Situation around 2004-2006 - Reference

# Policy use of national budgets

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- Use as quantification tools (compare fluxes)
- Scenarios
- Communication tool
- Identify intervention points
- Extract indicators

# National budgets for management

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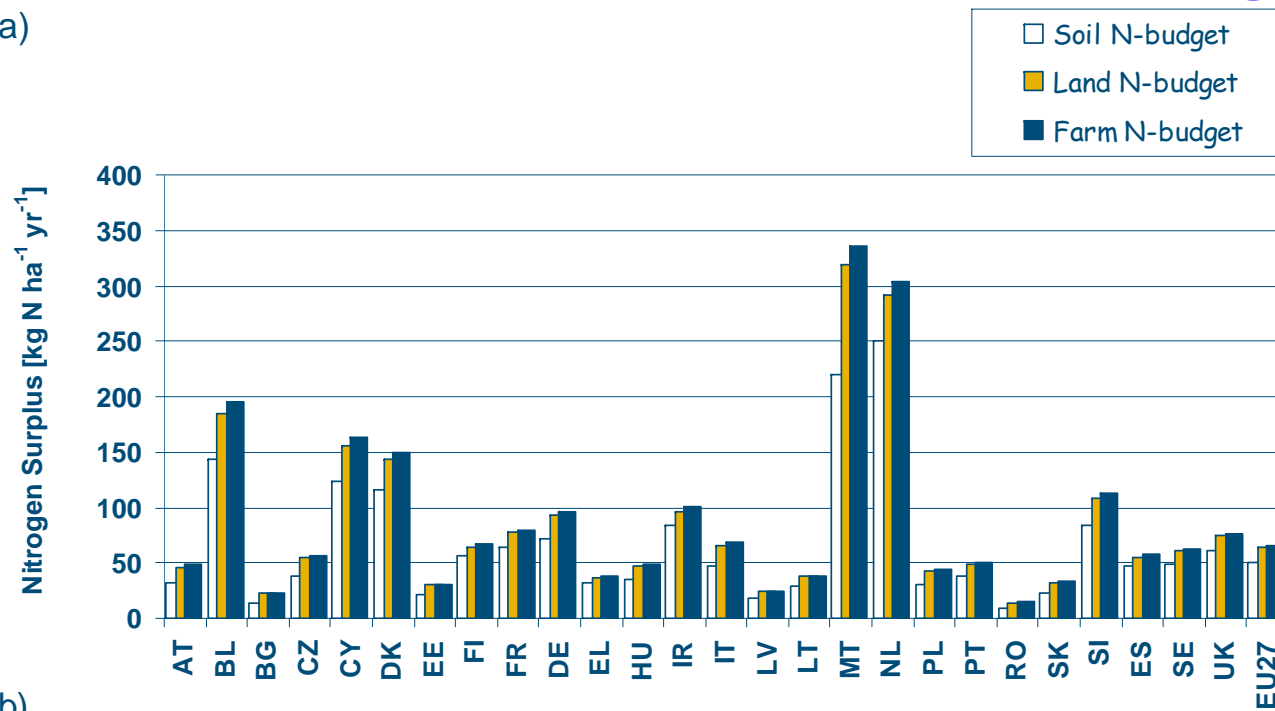


- Indicators
  - Total NH<sub>3</sub> vs. NEC
  - Deposition vs. Critical loads
  - Limits to fertilizer application
- The latter would require also spatial resolution

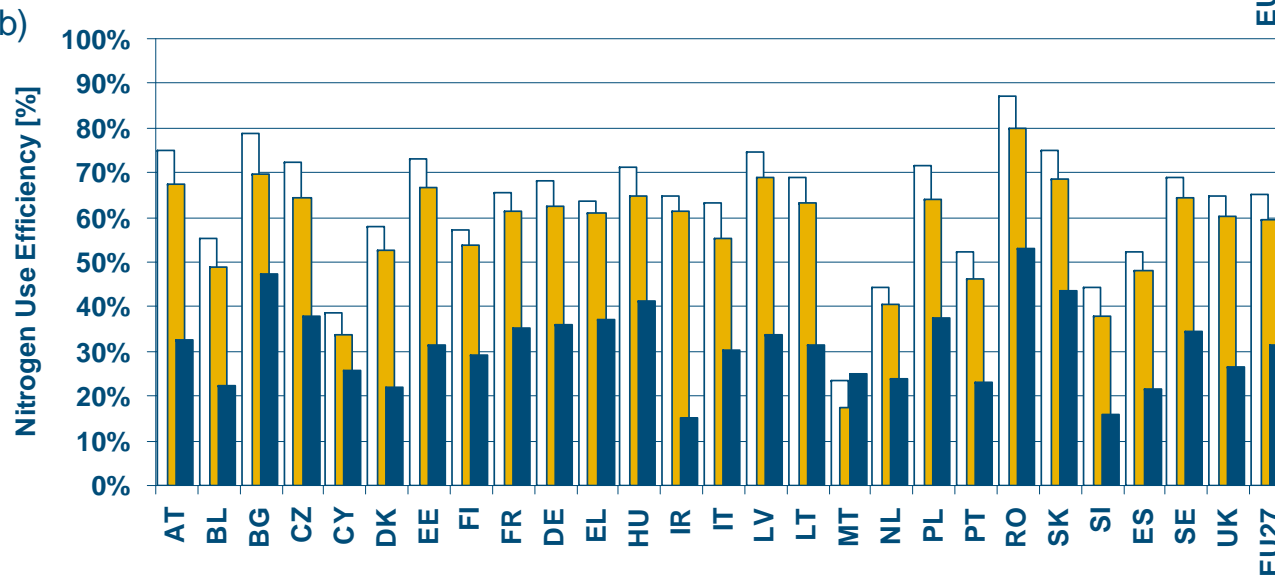


# NS/NUE for farm, land and soil N-budgets

a)



b)



Wim de Vries

# Contributions to Annex IX

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- Farmgate balances for demonstration farms using OECD methodology
  - extension possible if needed
- No possibility to define “level of high efficiency” – also as strongly dependent on specific country and sector /farm situation (animal vs. plant production) – instead results of reports (and improvements) would create benchmark
- National budgets: clearly indicators can be extracted – available results from countries would constitute a benchmark.

# Workplan 2010/11

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- Improve on calculation template (web-based)
- Provide guidelines (description / methodology)
- Liaise with OECD – OECD/EUROSTAT/EPNB-TFRN meeting in fall (details to be determined)
- Reference to OECD farmgate-balance in guidance document
  
- Long – term perspective: see previously

# Long term targets

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- Pool changes  $\leftrightarrow$  N<sub>2</sub> emissions
  - Time lag
  - Local / regional budgets (Spatial differentiation)
  - Validation; QA/QC on inputs
- } Dynamic system