

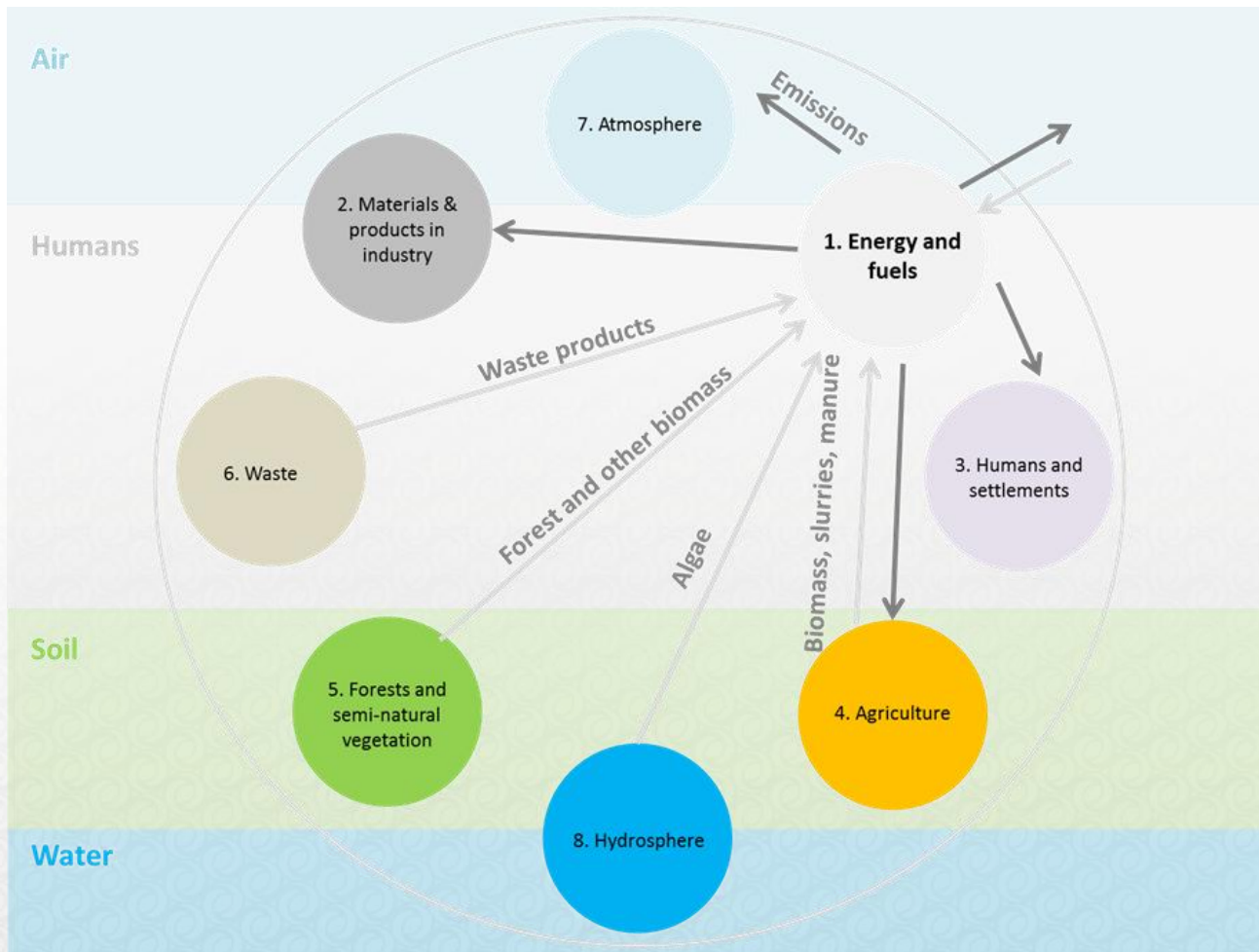
# Constructing Swedish national nitrogen budget

Work initiated/planned in close co-operation with Expert Panel on Nitrogen Budgets within TFRN.

## TFRN & EPNB

- TFRN established in 2007 under WGSR
- It has four expert panels, one is EP on Nitrogen Budgets
- Countries are encouraged to construct national N budgets
- Methodology is described in "Guidance document on national nitrogen budgets" (2012) followed up by 1+8 Annexes
  
- Annex 0 – Definitions and Principles, 1. **Energy and fuels**, 2. **Materials and products in industry**, 3. **Agriculture**, 4. **Forests and semi-natural vegetation**, 5. **Waste**, 6. **Humans and settlements** 7. **Atmosphere** and 8. **Hydrosphere**.
- Major leap forward with work on Annexes under 2016, the methodology is ready (pretty much) Editor: Wilfried Winiwarter

# Nitrogen flows between Energy and Fuels and the other pools of the NNB (including the rest of the world). Annex 1, draft 2016-01-26



## Current status and plans in Sweden

- Currently largest progress done in Switzerland and Germany, several other countries are active, (Canada, Denmark)
- Availability of Annexes is major step forward and opens possibility for all countries to use the developed methodology and to construct N budget in comparable fashion
- Three levels of ambition: Tier 1 – 3, (similar to IPCC approach)
- Tier 1 (simplest) is much better than no N budget at all
- Bulk of work under Tier 1 – 2 ambition level requires no new studies and model runs or calculations. Most of the required information should be publicly available in most countries.

## Current status and plans in Sweden (cont.)

- Sweden is about to launch three years project to construct N budget for Sweden according to TFRN EPNB methodology
- Connection between WGE and TFRN (WGSR) should be strengthened on national level, there is an overlap with regards to N cycling/environmental effects
- Ultimately national n budgets constructed using consistent methodology across all countries would be powerful tool for combating variety of N related problems in cost effective and co-ordinated way.