

Water issues in the Netherlands





Water management: water resources and water use



Water pollution



Water quality



Water economic benefits



Policy demands

- Main users: Ministry of infrastructure and environment, Ministry of economic affairs water boards, water companies and Eurostat.
- Water Framework Directive
 - Description of the economic importance / interests related to the use of water
 - Important as potential ground for derogation (disproportionate costs; socioeconomic reasons)
- Marine Strategy Framework Directive
 - Initial Assessment asks for 'Economic analysis of marine waters'
- Climate change policies → expenditure for climate change mitigation / adaptation
- Indicators for green growth



Dutch water accounts - overview

- 1. Physical water flow accounts (m³)
- 2. Emission accounts, based on emission registration (kg), national and regional data
- **3. Economic accounts,** based on the national and regional accounts (euro's, employment)
- 4. NAMWA matrix (National accounting Matrix including water accounts), including water related monetary data (taxes, subsidies etc.)



Water use examples

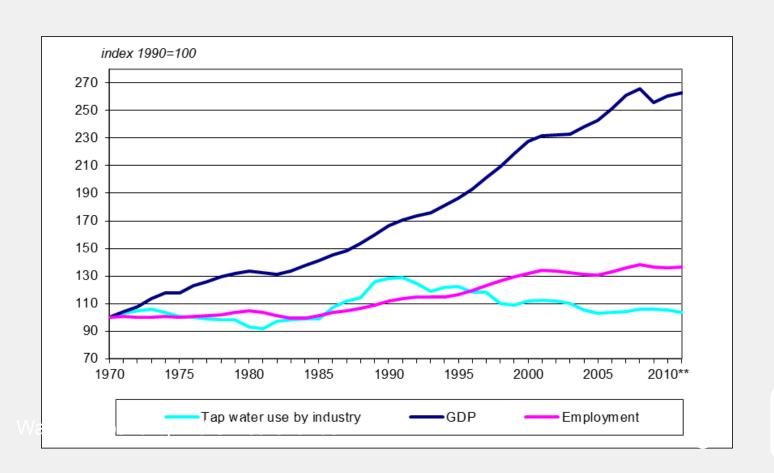






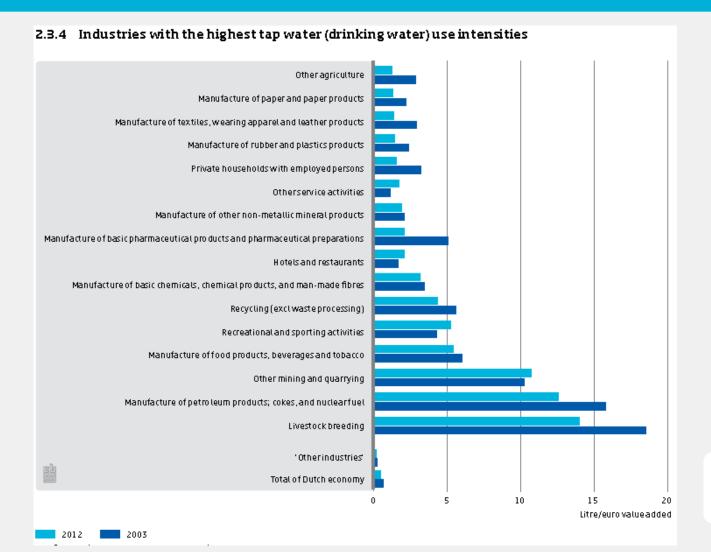
Decoupling between water use and economic growth.

Volume change GDP, employment and tap water used for production





Water efficiency of most important water users





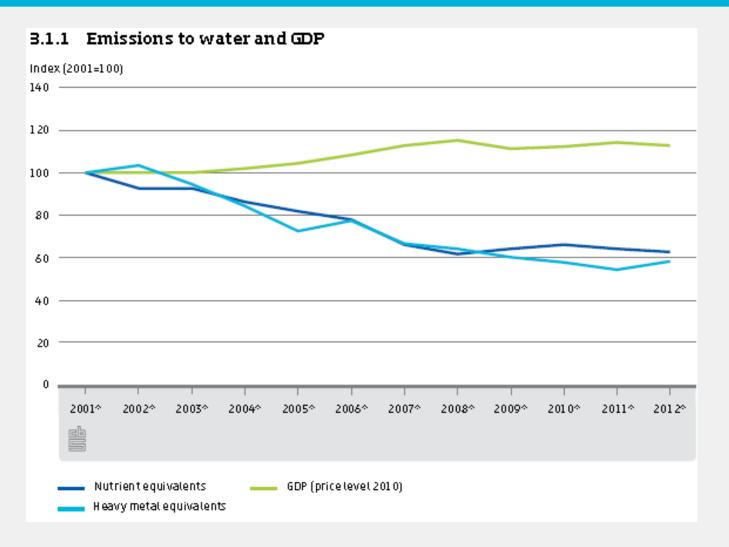
Water emissions and water quality: examples







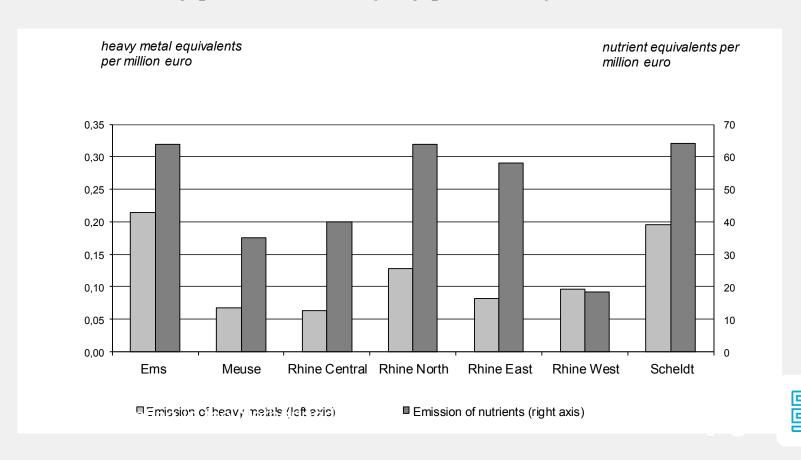
Decoupling between emissions in water and economic growth





Regional differences in emission intensity

Emission-intensity per river basin (only producers)



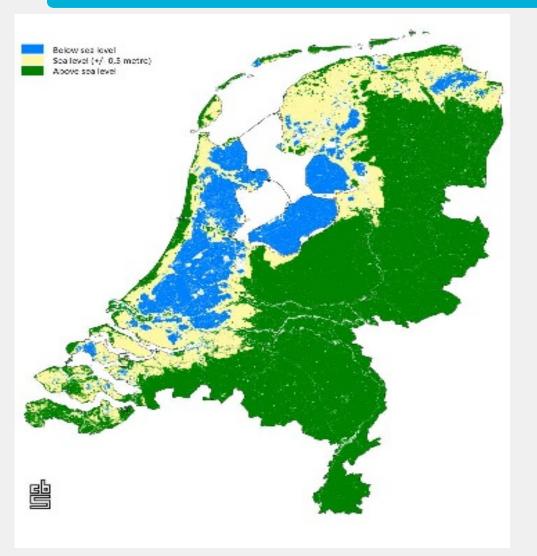
Water economic accounts example







Economy in flood prone areas



	Employment		Value added	
	Flood prone area	Percentage of total	Flood prone area	Percentage of total
Economic sector	x 1000 empl.	% 	bil euro	%
Agriculture	42	47%	5	50%
Industry		27%		26%
Energy and water	11			39%
Construction	143	38%	11	39%
Trade	379	35%	27	36%
Transprot	120	32%	11	32%
Services	452	34%	48	34%
Government		31%		31%
Other	309	30%	19	29%
Total economy	1 926	33%	161	32%



Thank you for your attention!

