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Water management in the Netherlands: Challenges & Solutions

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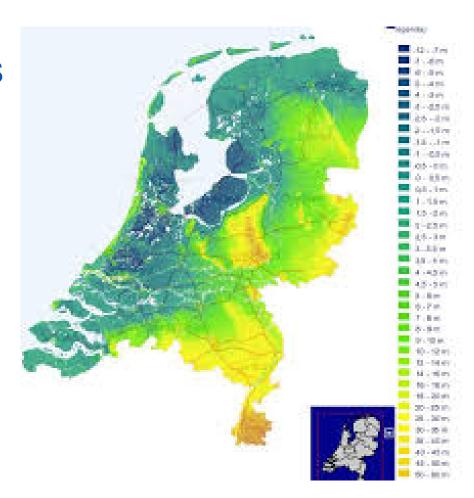


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TODAY

- Water management in The Netherlands
- Solutions
- Fit for the future?
- Financing Dutch Water Management
- Conclusions

THE NETHERLANDS





Institutional layers of water management in the Netherlands

European level

European Union

Legislation and regulation for water, floods and the environment

International River Basin Commissions (Rhine, Scheldt, Meuse, Ems)

Cross-border water management

National level

Ministry of Infrastructure and the Environment

Water, spatial planning and flood protection at national level Planning of the national water policy Co-ordination with other policy areas (spatial planning,

environment, economic development, agriculture, etc.)

Operation and maintenance of main water system

National Water Authority

Provincial level

Provinces (12)

Integrated spatial and environmental planning Supervision of regional water authorities (RWAs) Groundwater regulation Co-ordination with other regional policy areas

Watershed level

Regional water authorities (24)

Operation and management of regional water systems

Flood defence

Water quality & water quantity

Wastewater transport & treatment

Municipal level

Municipalities (408)

Local spatial planning

Sewerage collection & wastewater transport

Urban drainage

Stormwater collection

DUTCH WATER AUTHORITIES

Independent government body:

- 23 DWA (2600 in 1953)
- since 1122
- own legal power
- own tax system
- own elections
- Water management tasks:
- flood protection
- surface water quantity
- surface water quality
- waste water treatment
- not drinking water



THE DUTCH SOLUTION TO CLIMATE CHANGE: THE DELTA PROGRAMME

- A **proactive** nationwide programme
- Cooperation between State, provinces, municipalities, Dutch Water Authorities, social organizations and the business community
- Objective:
 - to protect the Netherlands from flooding
 - to ensure adequate supplies of freshwater for generations ahead
- Completed by 2050

THE DELTA PROGRAMME

- Water Safety
- Fresh Water Supply
- New-build and restructuring

General programmes

STATE OF PLAY

- Budget Day 2014: Presentation of the Delta Programme
- 3 interrelated new measures:
 - new water safety standards;
 - sustainable fresh water provision;
 - climate-resilient design and water-robust construction.
- Two decisions on:
 - the Rhine-Meuse delta,
 - the Lake IJssel region.

€ 20 billion



INDEPENDENT OECD STUDY

- Challenges clear, but is institutional framework up to date?
- Independent OECD review
- Think tank on 'governance issues'
- World wide water expertise



OECD STUDY: FIT FOR THE FUTURE? KEY FINDINGS

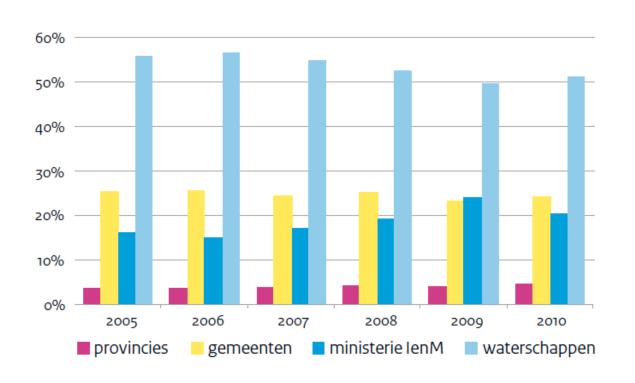
- Striking "awareness gap";
- Limitations caused by system of checks and balances;
- Concerns about water quality;
- Weak economic incentives for management "too much", "too little" and "too polluted" water;
- Recommendation for better use and cooperation between water, land use and spatial development- in relation to costs;
- Recommendation for establishment of an independent authority to oversee the water governance in the Netherlands.







FINANCING OF DUTCH WATER MANAGEMENT



Total budget 2010: 6 billion euro

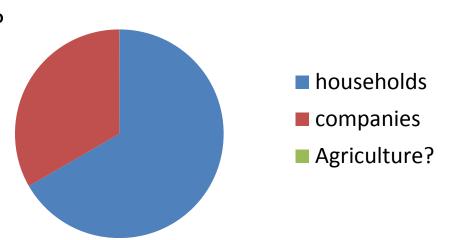
REMAINING CHALLENGES

- Stricter application of *Polluter Pays Principle* and *User Pays Principle*,
- Equity considerations: among groups and regions,
- Greater policy coherence: lower societal costs,
- Improved transparency leads to cost efficiency.



CONCLUSIONS

- Water management is of national importance in the NL,
- Clear view on work to be done,
- Solid institutional framework,
- Key element: local, targeted financial system,
- Ongoing debate: who pays the bill?





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THANK YOU FOR YOUR ATTENTION



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