



International and policy perspective on alternative water resources in coastal regions

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The international water challenge

Drivers, challenges and consequences



Based upon Netherlands Environmental Assessment Agency, the geograpfhy of future water challenges, 2018

1 Challenges repeat themselves on all scales



1 International water policy – "soft policy"

- There is no such thing as an Global Water Agreement, nor an international agreement on "sustainable water use in the production of goods and services" (= trade policy).
- The Paris Agreement, art. 7, stipulates that adaptation is country-driven.
- UN-Water is, in the United Nations, an inter-agency coordination mechanism for freshwater related matters.
- Still, there is the yearly UNESCO World Water Development Report is the UN-Water flagship report on water – 2018 on nature based solutions.



1 Water in the Sustainable Development Goals





The Water Framework Directive ... as a framework

A water bodies / water systems approach ...



- Systems approach is projected upon river basins and water bodies
- Member States ought to reach and keep the "good status".
- "Good status" is essentially the situation whereby the water system and the social systems that depend upon it, are functioning in equilibrium and can remain so in a sustainable way.

2 ... a directive of the 3rd generation ...



... leading to programmes of measures

2



2 The WFD – a partial success

OUTPUT

- Common implementation strategy
- River basin districts
- Competent authorities
- River basin management plans (RBMP)
- Programs of measures
- Monitoring programs
- Subsequently: Flood Risk management plans (FRMP)

OUTCOME ± 2015

	Number of member states	Number of water bodies	good status or potential 2009 (%)	good status or potential 2015 (%)
cological status f surface waters	25	89.000	38 %	40 %
Quantitative status of groundwater	25	13.400	81 %	86 %
Chemical status of groundwater	25	13.400	68 %	70 %



Alternative water resources ... co-operating for water

3 Water and watersystems as economic goods

"Increasing the **ecosystem-based** adaptation capacity to climate change and associated effects is particularly important in the 2 Seas area, which is particularly prone to the risks and effects of climate change, in a context of potentially increasing vulnerability and reducing **public resources**. Local and regional authorities, environmental agencies, emergency services and coast quard centres, universities and research centres and local communities will be among the **beneficiaries**. A particular attention will be given to **the most** vulnerable sectors and those likely to be affected by stronger impacts."

	Rival usage or consumption	Non rival usage or consumption
Users are excludable / good can be exclusive	Private goods	Club goods
No excludability	Common goods	Public goods

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	Rival usage or consumption	Non rival usage or consumption
Users are excludable / good can be exclusive	Surfaces and soils / Specific water quantities	Water structures (= blue infrastructure)
No excludability	Water (eco-) systems	Services from water (eco-) systems

Water resources and adaptation policy



3





Conclusions

- The international challenges being what they are, most action will be local, regional and/or water-body oriented.
- The Water Framework Directive provides in a basic framework for the many policies that relate to the water challenge... but there is no clear-cut regulation, directive or instrument that specifically tackles water resource management.
- The challenge is to construct the appropriate willingness-topay or -to-invest and fitting management structures.
- Only with feasible projects, and with proper consultation and/or participation ... we'll be able to tackle the challenges.



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