Using the DRP results in addressing Key Water Management Issues

Joachim Heidemeier, P&M

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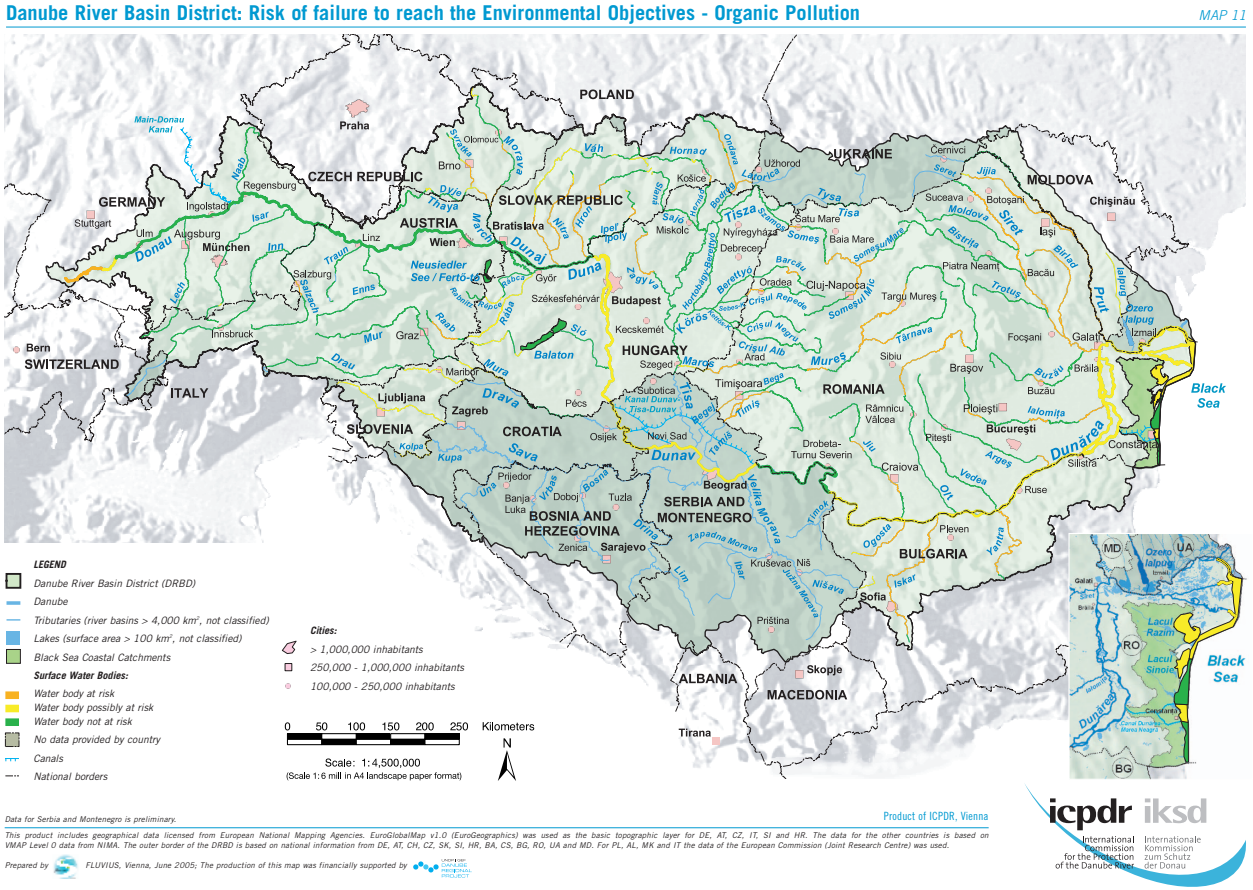
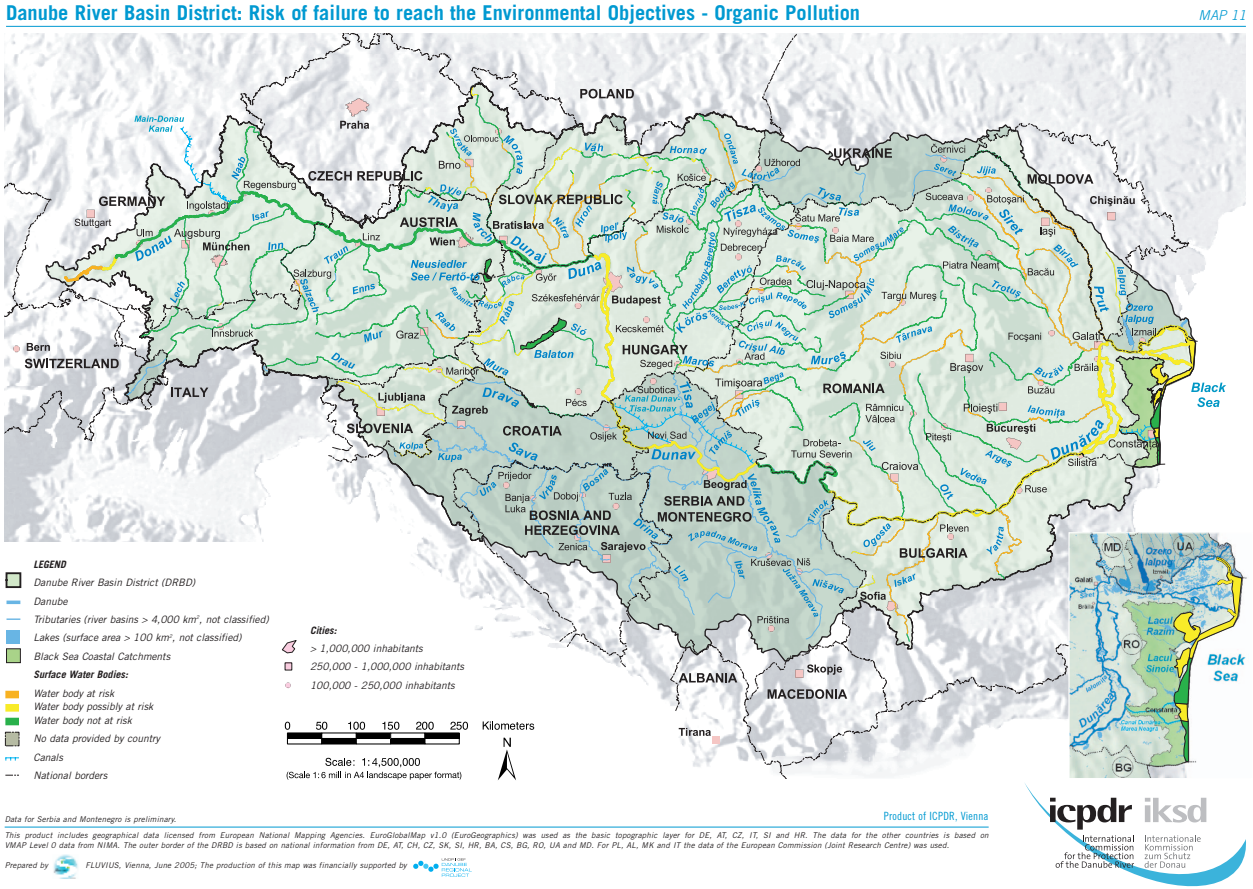
Key Water Management Issues identified

organic pollution (insufficient waste water treatment)



Key Water Management Issues identified

eutrophication (excess nutrient inputs — point and diffuse sources)



selected measures and information / planning tools

effective information gathering and evaluation

- MONERIS model to link information on
  - inputs from point on diffuse sources
  - effects of measures
- Improving Urban Waste Water Treatment (basic measure)
  - UWWTD Implementation
  - Information Collection according to UWWTD-Reporting
- Introduction of phospate free detergens

UWWT implementations & WFD

key measure to address organic pollution and nutrient inputs from point sources

- Important Part of the Acquis Communitaire for new Member States
- Non EU Countries Danube Declaration goal
- BS Coastal Area as Sensitive Area $\Rightarrow$ Nutrient removal upstream
- transition period until 2018 (Romania)

UWWT implementations & WFD

key measure to address organic pollution and nutrient inputs from point sources

Key element of POM (basic measures), but:

- higher nutrient inputs during implementation phase
  - time mismatch sewer systems / treatment plants
  - discharges from small settlements
- Time Scale beyond RBMP Cycle
- very high costs
- most likely not sufficient to reach reduction required

$\Rightarrow$additional measures on shorter timescale required

Why phosphate free detergents ?

- Zeoliltes as substitutes available, positive experiences in other countries
- necessary information for substiution process available
- achieveable on short time scale
- reduction also from small settlements
- no visible influence on consumer prices for detergents
- reduction in operational costs of UWWTPs
- less sewage sludge
- phosphate in detergents may jeopardize UWWTP investments

MONERIS calculated Scenarios on Inputs of Phosphates

(Behrendt, pers. communication, adapted JH)

Scenarios	WWTP discharges	total Emissions	riverine load
UWWT state 2005			
- P in detergents state 2000	100	100	100
- only P-detergents	165	161	153
- without P in Detergents	84	88	91
UWWT state 2019			
- P in detergents state 2000	41	55	64
- only P-detergents	90	77	86
- without P in Detergents	35	52	61

How to achieve phosphate substituiton

Conclusions from the DRP Workshop January 2007

- EU ban unlikely during the next couple of years
- Action needed from most of CP's
- Voluntary agreement not effective (example Czech Republic)
- Romania highest priority in terms of
  - population in the catchment
  - possible benefits on the Black Sea Coast
  - available production capacity
- Concerted action prefered, ICPDR as »information broker«
- Phosphate free detergents included in POM (supplementary measures) ?

icpdr iksd
International Commission for the Protection of the Danube River
Internationale Kommission zum Schutz der Donau