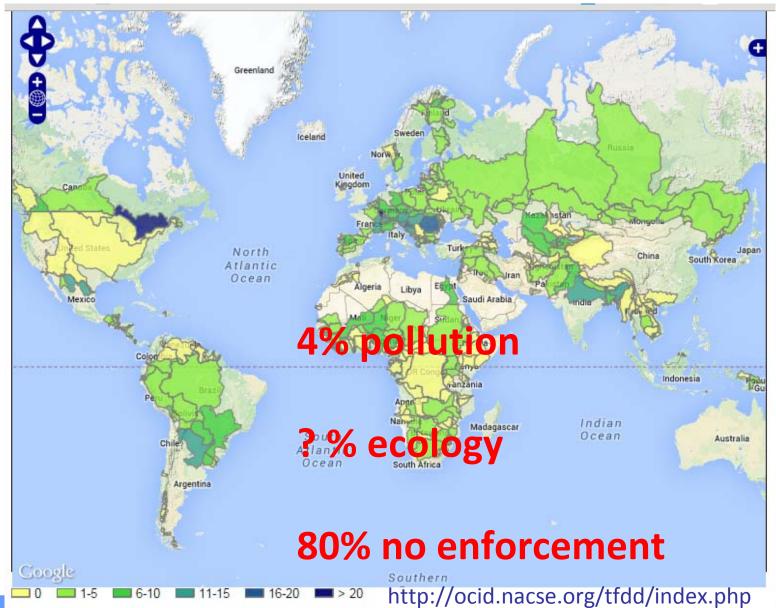


Number of water treaties in the world



Large diversity in structure and mandate of BO's



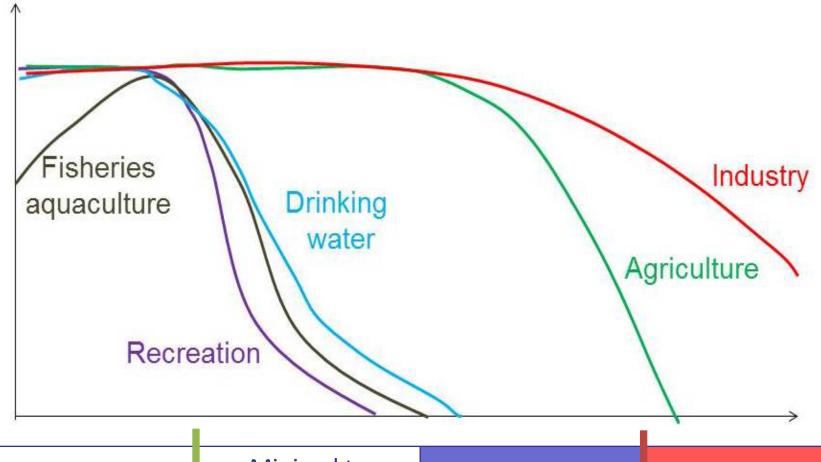
Mandate and tasks of BO

- Goal setting
- Monitoring
- Reporting
- Measures
- Compliance and Enforcement
- •

Role for BO's to balance ecosystem quality versus other uses and interests



Potential uses related to ecosystem quality



High ecosystem integrity

Minimal to moderately disturbed

Highly disturbed

Does not sustain freshwater life



Selection of Indicators and Monitoring

A few countries / regions (EU!) have set indicators

Biological	Fish
	Invertebrates
	Algae
	Macrophytes
Physico-chemical	Metabolic
	Trophic
	Toxicants
Hydrogeomorphic	Aquatic habitats
	Riparian habitats



Criteria

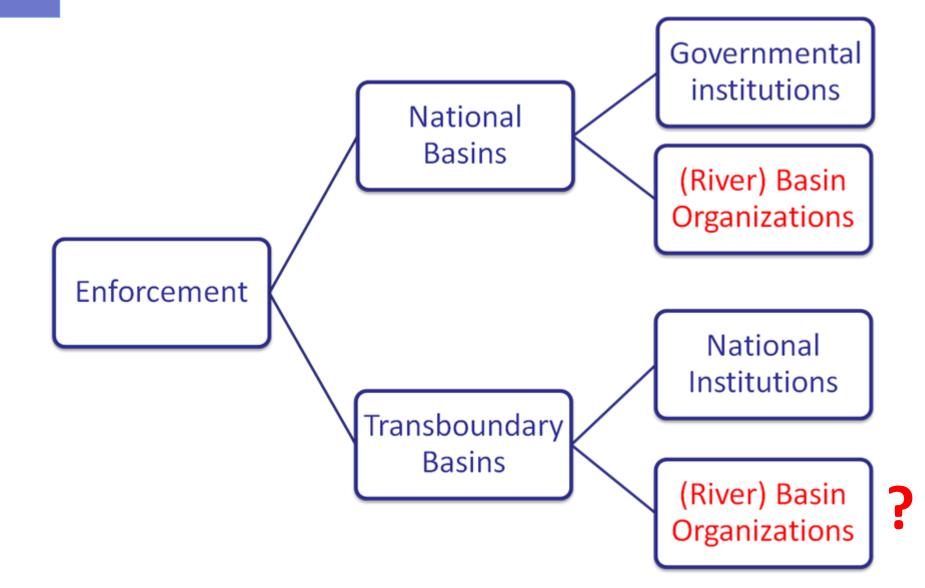
O₂, Nutrients Guidelines available
Site specific application needed

Toxics Not site specific
Different guidelines available
Harmonize!!

Biological
Need for reference values, within or with similar basins



Enforcement



Recommendations

- Assessment for aquatic ecosystems includes physio-chemical, biological and hydromorphological indicators
- Reference values are needed for biological indicators
- Develop international water quality criteria for toxic substances in fresh water ecosystems
- Provide a common terminology concerning water quality assessment



Recommendations

- Strengthen the mandate and cooperation between authorities, stakeholders and states in basin organizations to protect and restore aquatic ecosystems by
 - Long-term goals
 - Technical and financial capacity
 - Stakeholder engagement
 - Cooperation in monitoring, data-analysis, reporting, dissemination of results
 - Clear enforcement

