

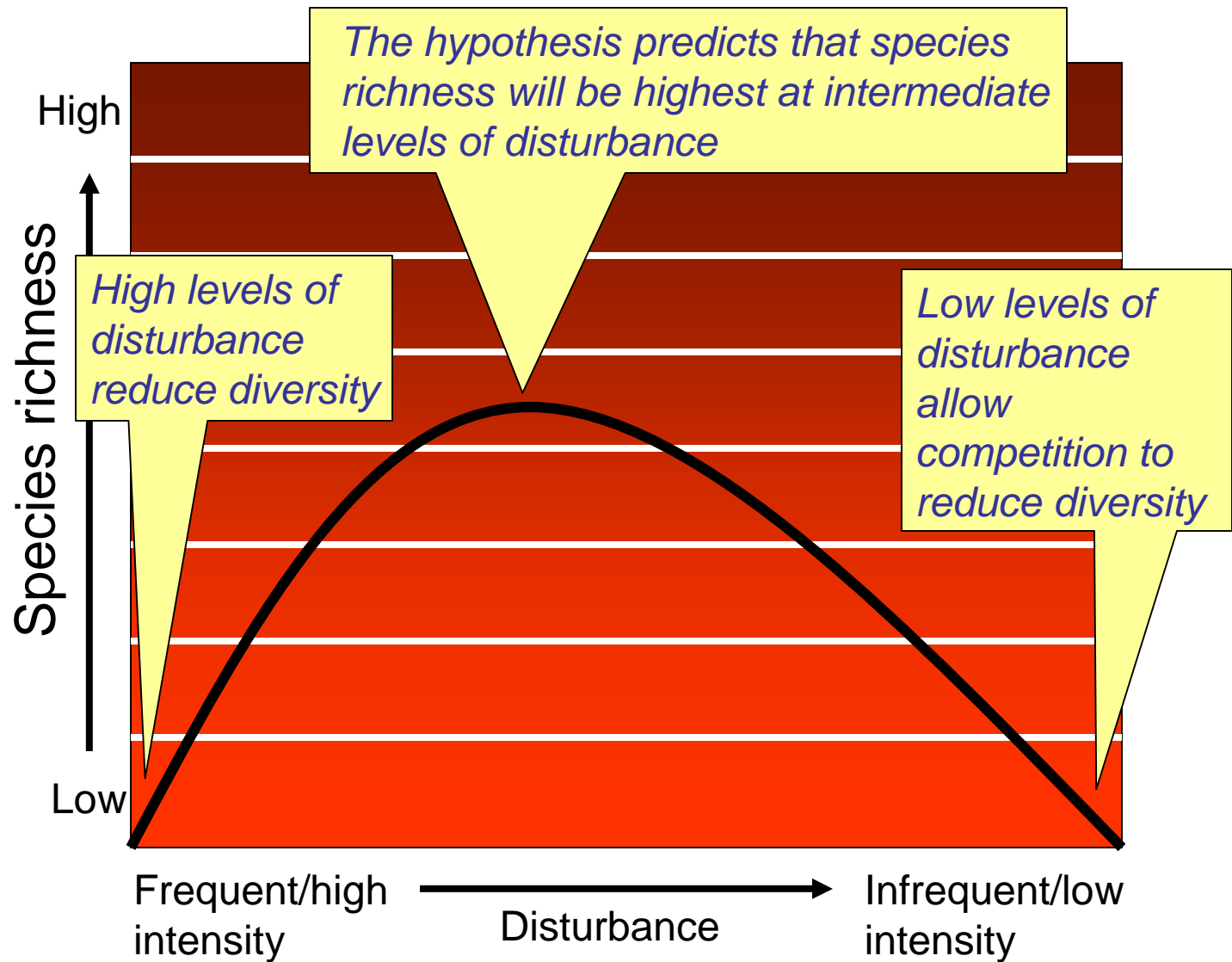
Hydropower de-briefing Outline

- Social Sustainability
- Environmental Sustainability
- Economic Analysis under Uncertainty
- Hydropower: emerging views
- A few suggestions for next steps

Hydropower – Social Sustainability

- Create an enabling environment (e.g. Petersberg II Process/ Athens Declaration)
- Involve representative stakeholders in the assessment of needs and options to meet those needs
- Consider all options (structural/ non structural; demand/ supply)
- Reach a decision in a timeframe compatible with the needs to be addressed

Ecosystems Resilience: The intermediate disturbance hypothesis





www.unesco.org



www.attempto-projects.de/AquaTerra



www.icpdr.org



www.vituki.hu

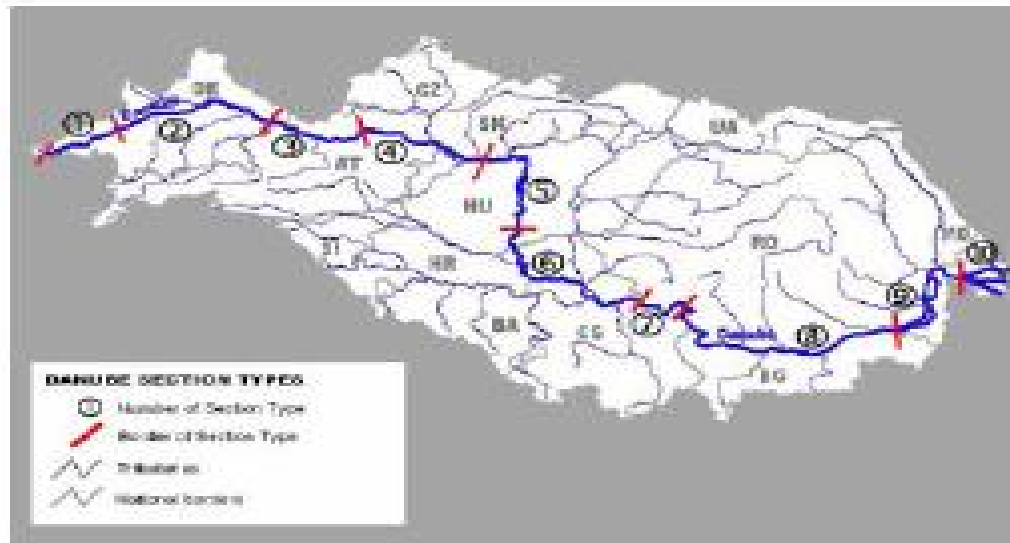


www.SedNet.org

RiskBase

Towards the integrated management of the Danube sediment-soil-water-system as

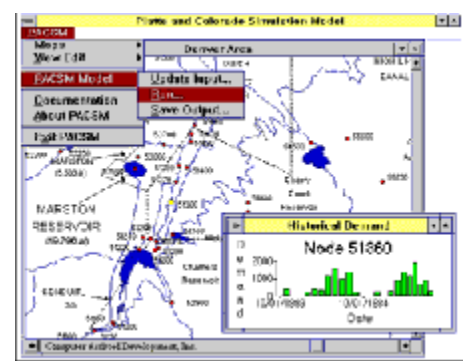
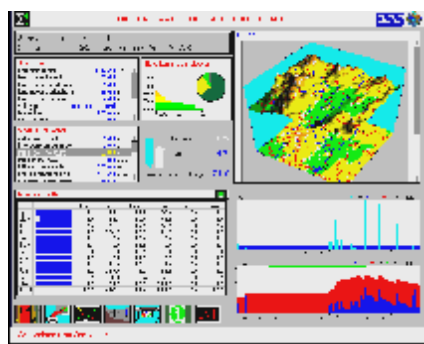
Support to the implementation of the EU Water Framework Directive in the Danube river basin



Source : Danube Basin Analysis (WFD River Report 2004)

Economic Analysis under Uncertainty: the role of modern Decision Support Systems

- Simple, yet robust enough to simulate:
 - Trade-offs among sectors and purposes,
 - Development scenarios, including economic analysis,
 - Emergency management (contamination control, flood protection, etc.),
 - Adaptation to climate variability (water availability scenarios),
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Hydropower: emerging views

- Do not compromise the environment to seek short term development, yet
- Do not let underdevelopment become the enemy of environment
- Modernize existing plants, update their operation
- Complete/ modify schemes under construction
- Plan and built new sustainable plants

A few suggestions for next steps

- Workshop to agree ToRs for a shared DSS
- Adopt a risk-based approach to development with particular reference to social changes and climate variability
- Make realistic assessments of the resilience of ecosystems to guide sustainable development options
- Address existing hydropower schemes in parallel to the development of new ones