

5th stakeholder forum for the project "Preparation of documentation for river training works on the critical sectors of the Danube River in Serbia"

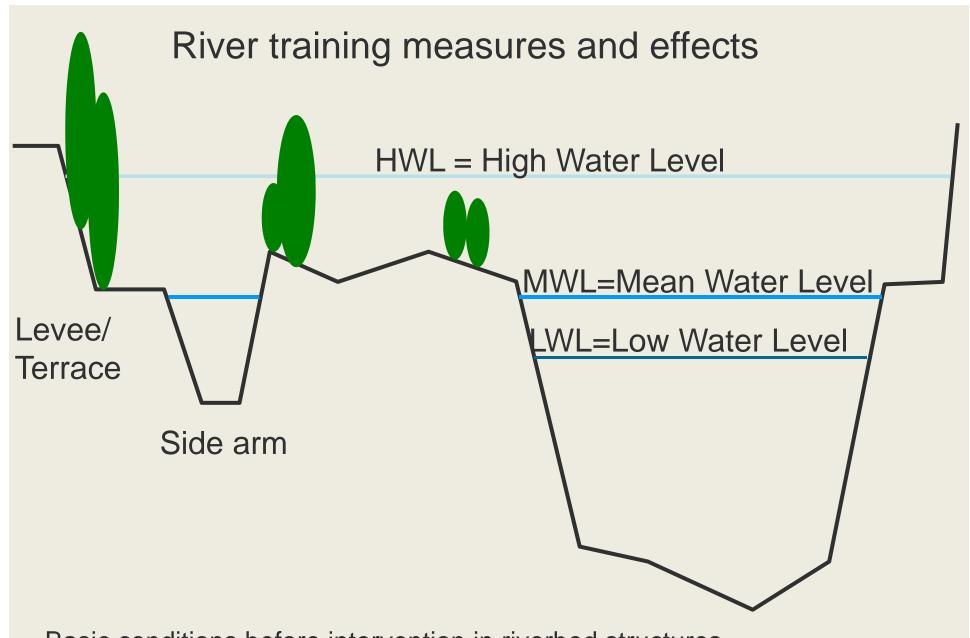
Morphological processes and river training works in view of ecosystem functions and reference conditions

Georg Rast, WWF Germany

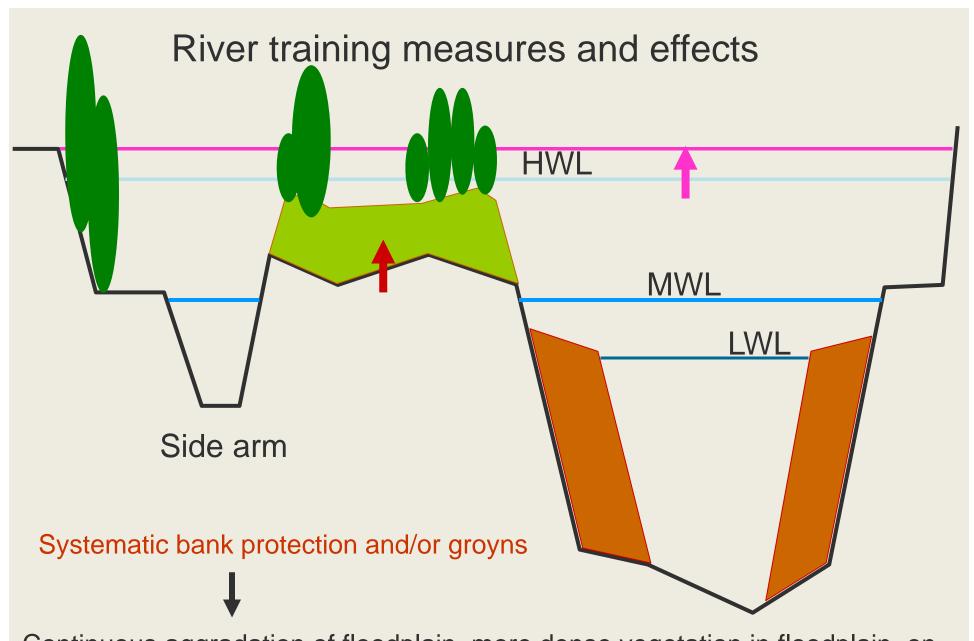


Structural interventions - aspects from environmental point of view

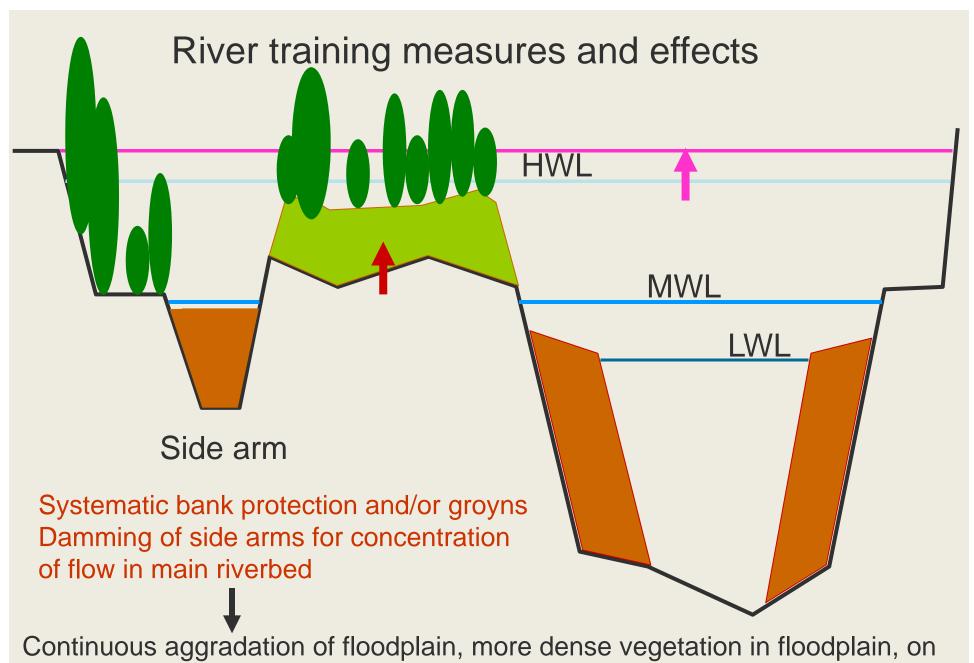
- Joint Statement objectives for environment include also opportunities for environmental improvements
 - Limit river bed incision
 - Sustain riverbed dynamics/habitats
 - Rehabilitate floodplain dynamics
- Include effects from interventions in the past (are there on-going changes?)
- Orientation on reference conditions (what can we learn from historical maps?)



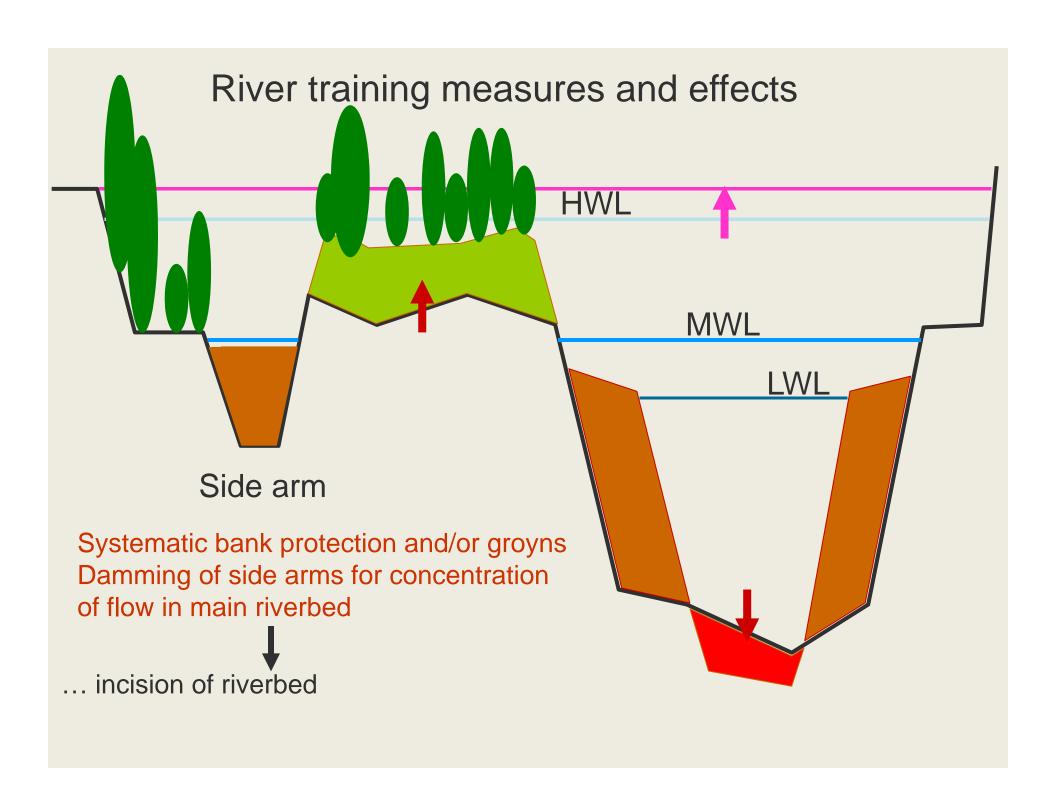
Basic conditions before intervention in riverbed structures

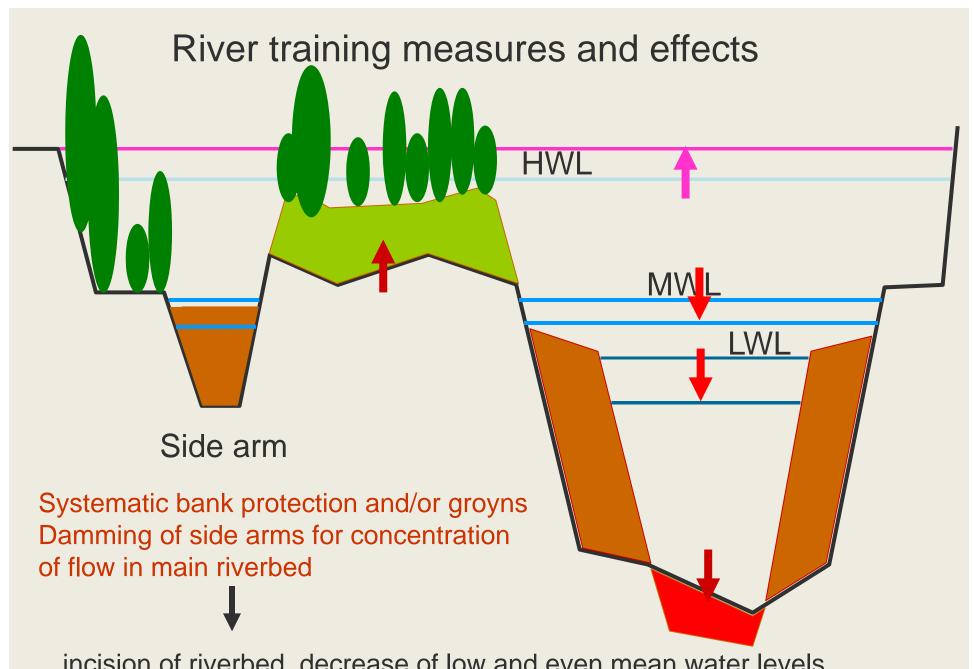


Continuous aggradation of floodplain, more dense vegetation in floodplain, on banks and on islands elevation of flood water levels

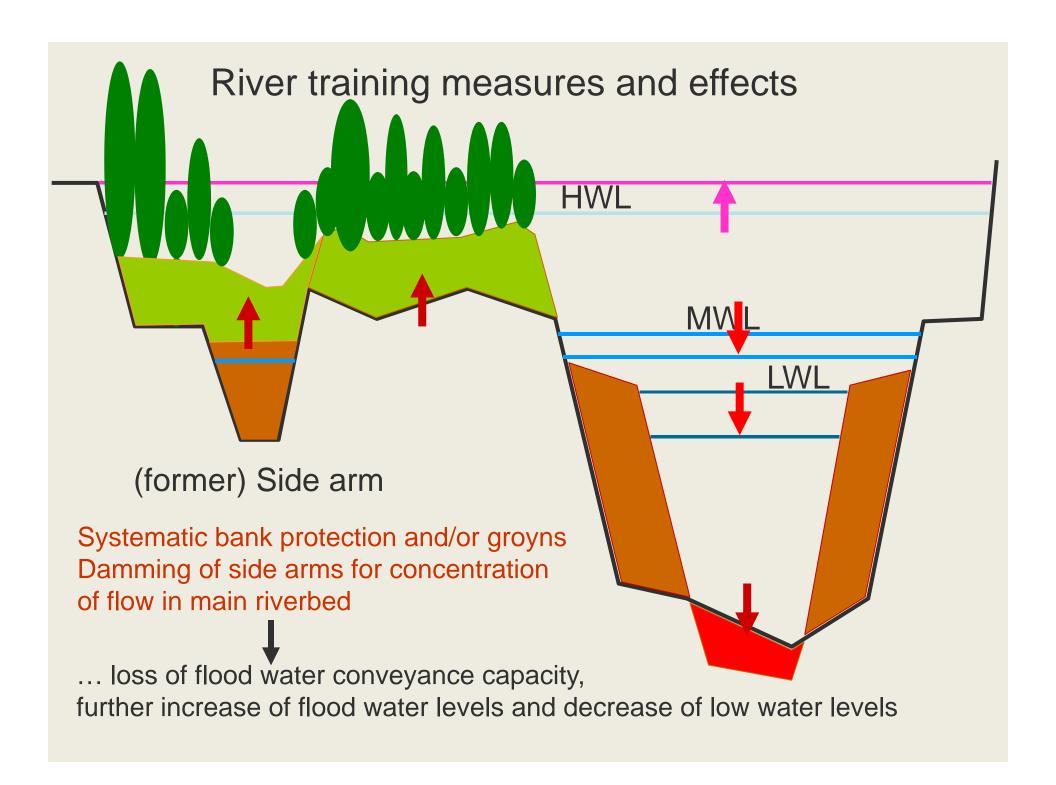


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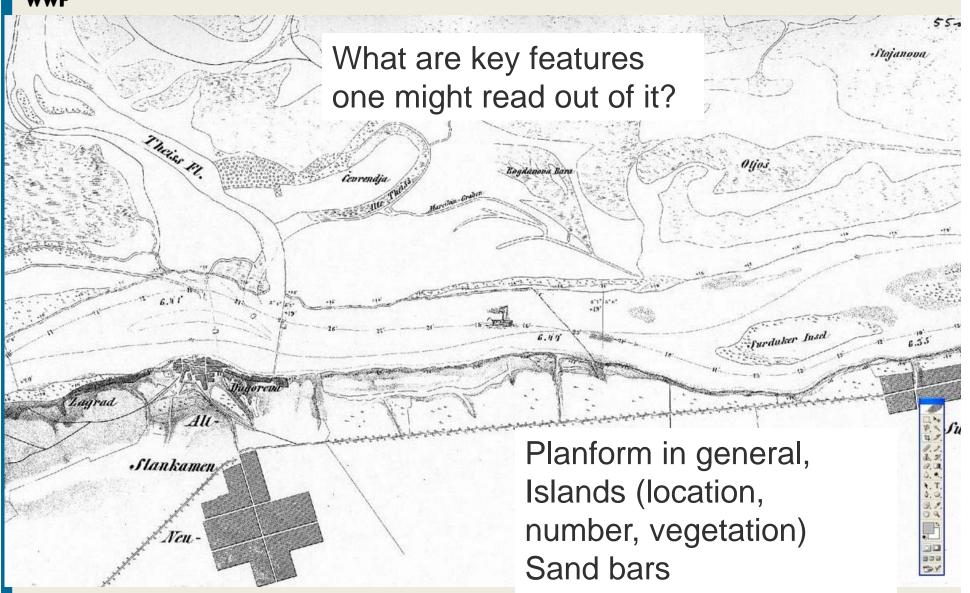


... incision of riverbed, decrease of low and even mean water levels subsidence of groyns and bank reinforcements, increased maintenance





Historical maps – reference conditions?

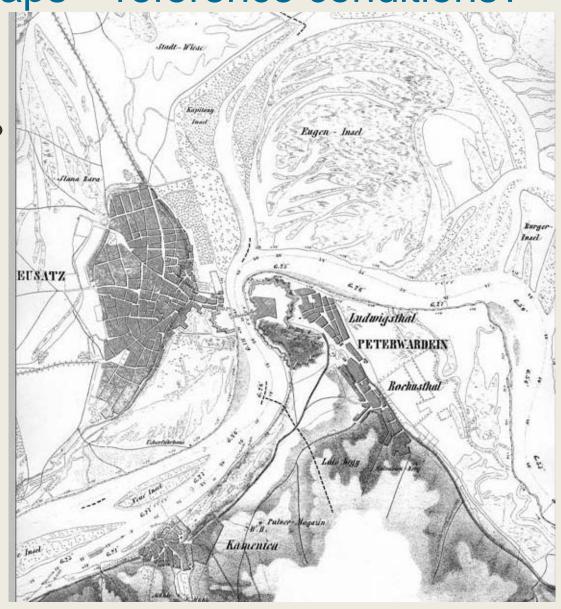




Historical maps – reference conditions?

What are key features one might read out of it?

Planform in general, Islands (location, number, vegetation) Sand bars





Historical maps – reference conditions?

