

# **Serbian Danube waterway infrastructure project – A new deal: the integrated approach as a success factor**

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waterways

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## Interdisciplinary planning teams, stakeholder & expert participation

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Plovput approach:

- Multi-disciplinary **Stakeholders' Forum** created
  - Represented fields of interests:
    - navigation
    - environment and nature protection
    - economy
    - archaeology
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## Case by case approach, ecological & navigation requirements

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### Plovput approach:

- Following basic principles from the Joint Statement
  - Integrated planning process in terms of creating framework for balancing between interests of navigation and interests of environment
  - In parallel, introducing RIS as innovative traffic management system
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## Working with nature minimum engineering intervention

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### Plovput approach:

- Insuring sustainable minimum fairway depth and width during the low water periods, while respecting environmental requirements:
    - preserving connectivity conditions
    - preferring detached structures
    - preserving sediment equilibrium
    - ensuring mitigation measures
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## Integrated design of river training structures

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### Plovput approach:

- Multi-criteria analysis for each critical sector
  - Detailed hydraulic and morphological analysis
  - Using historical data to determine natural trends
  - On-spot confirmation of data
  - Selecting the best sustainable combination of structural and non-structural measures
  - Investigating application of innovative structures
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## Sediment balance kept/restored

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### Plovput approach:

- Independent verification of analysis is necessary in the process of building the trust between different stakeholders
  - One of four principles in basic project orientation:
    - preserving sediment equilibrium, as river bed incision is influencing both navigation and environment
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## Adaptive management

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### Plovput approach:

- Standards are necessary, otherwise anarchy would prevail
  - Flexibility is necessary, especially in multidisciplinary projects
  - Common agreement between different stakeholders is possible
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# Thank you!

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