

"JASPERS EXPERIENCE WITH EU FUNDED PROJECTS IN THE FLOOD SECTOR"





Rome, 8th October 2014







Introduction JASPERS Water Sector



Who is JASPERS:

- o Project advisory facility to EU countries, mainly for major projects
- Assist in Preparation of Structural Fund projects
- Largely funded by EC; managed by European Investment Bank.

What does JASPERS:

- o EC grant approval: 366 projects worth EUR 64.1bn (since 2007)
- o 60% of all EU-28 major projects, 95% of all major projects in initial JASPERS countries
- o 30% from water sector (drinking water, wastewater, flood risk management, coastal protection).

Further JASPERS support:

- Selectively for non-major projects, systemic/horizontal issues and focused capacity building/training
- JASPERS Networking Platform: knowledge sharing activities, dissemination of good practices among JASPERS stakeholders (EU Member States, EC, EIB, EBRD)

Assessment of Flood Projects: Main Challenges

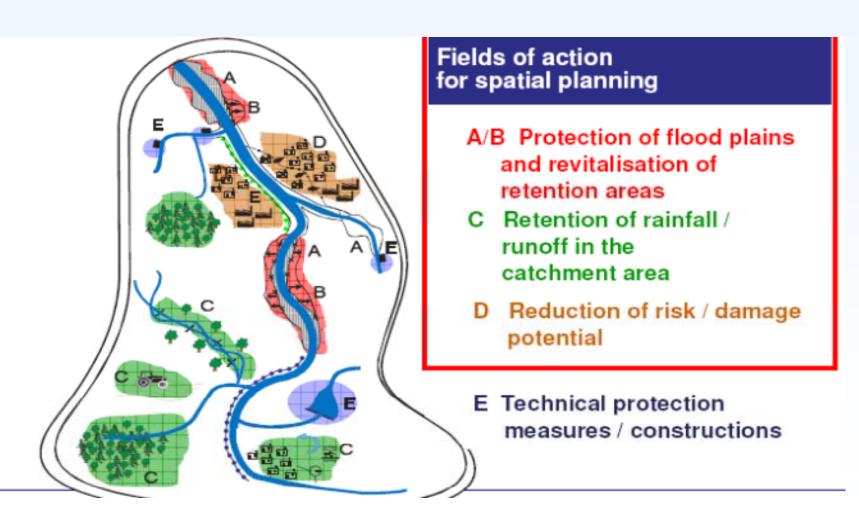


- A. Planning on a River Basin level (National and International)
- **B.** Flood modelling
- C. Combination of Measures (River needs space)
- D. Overdue maintenance
- **E. Non Structural Measures**

A. Planning on a River Basin level National and International

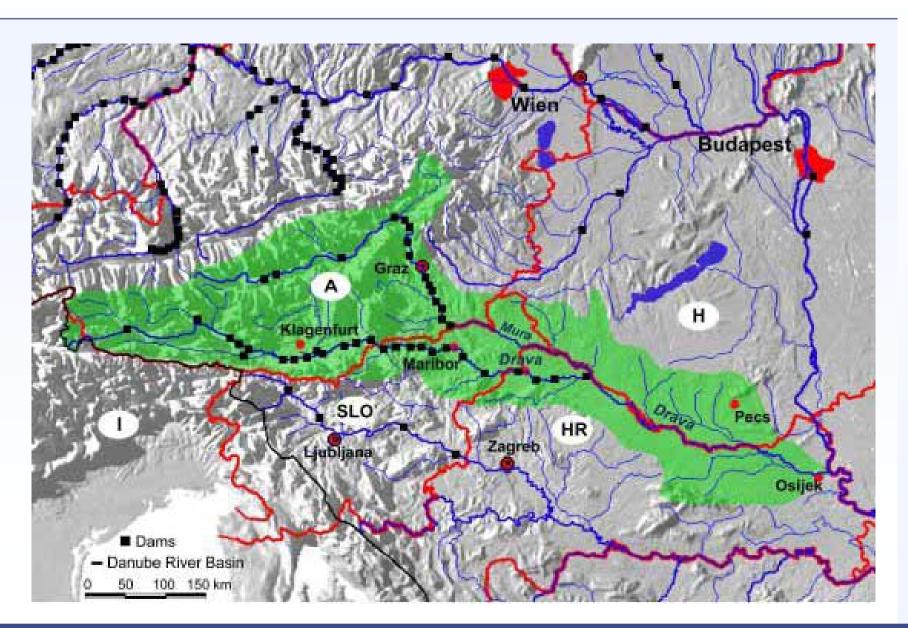


Advantages are evident but in practice not fully applied



Example 1. International river basin approach

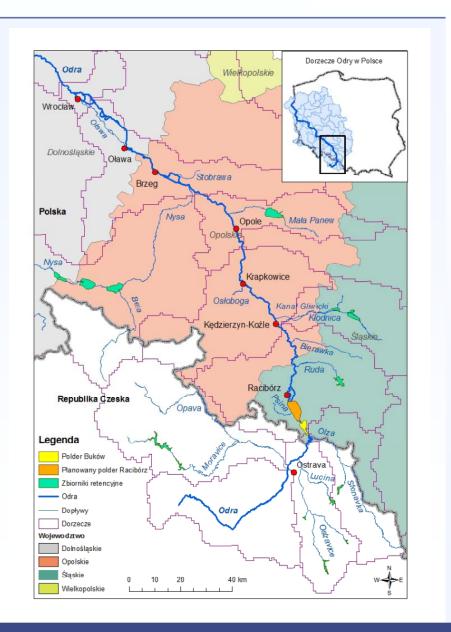




Example 2. River Basin Planning



- Passing of the flood wave
 - Restoring dikes
 - Hydraulic capacity of the river
- Upstream retention reservoirs
 - On main river, incl. cross border
 - On tributaries: tool to avoid coincidence of peak waves
- Protection of main urban areas
 - Safeguarding main assets and population



B. Flood Modelling



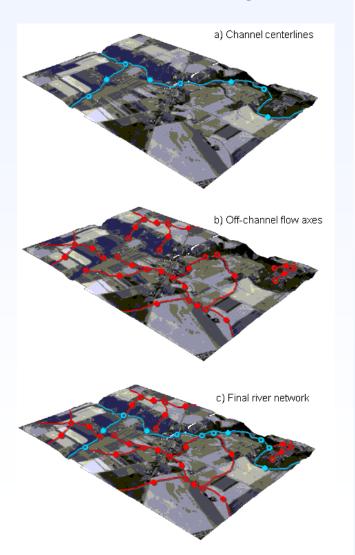
Issues faced:

- Flood modelling generally applied but not always 'state of the art'
 - Models from previous, outdated studies ('protected' versions)
 - Not always latest modelling techniques
 - Climate change impact included?

Acknowledged:

Necessary tool in programme development and operations

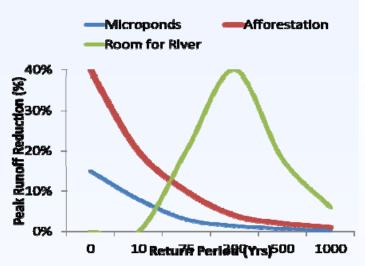
1D -2D modelling



C. Combination of measures Upstream / River needs space



- Upstream "Giving back to nature" measures are green and effective
 - Especially high potential on smaller tributaries
 - Less effective for extreme weather events
 - To be used in combination with 'concrete' measures
 - Environmental limitations in flood plains (Natura 2000)
- > JASPERS examples:
 - o Forest retention
 - Widening river bed
 - Retention reservoirs







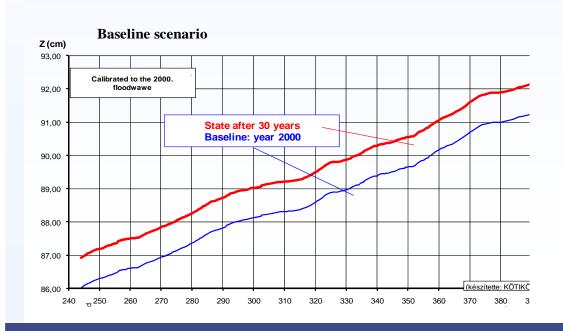
D. Overdue maintenance: Restoring historical situation



Overdue maintenance problems:

- Silted and overgrown river beds
- Funding and Management problems
- o 'Shock effect': environmentally sensitive

Dredging: Good or Bad?

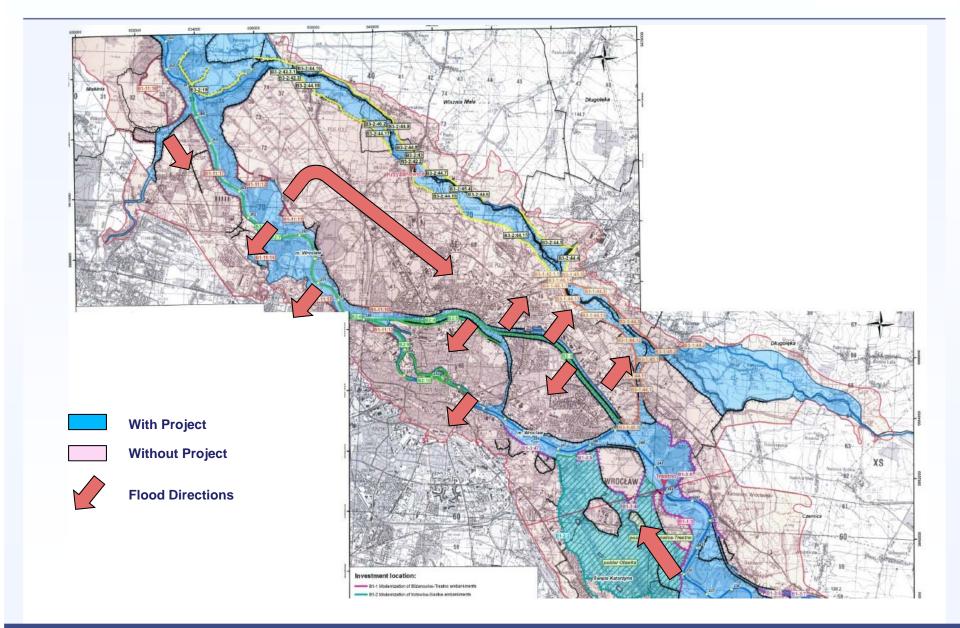






Example: dredging project





E. Non-structural measures Optimise, Plan and Talk



Large potential for better management tools and systems

- Improved flow management (hydropower operations, etc.)
- International communication
- Take into account climate change
- Spatial Planning
- Let it flood (where possible)



By the way: Climate Change Workshop



Brussels, 21-22 October 2014:

JASPERS Network Platform Workshop on Thematic Objective 5:

"Promoting Climate Change Adaptation, Risk prevention and Management" in the Water Sector

Special attention for the ex-ante conditionality:

"The existence of national or regional risk assessments for disaster management, taking into account climate change adaptations"

➤ Good practice in project development, incl. examples from several member states













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