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Information meeting:

Subject: Project Proposal

Date: 30/1/2017

Venue: Bratislava, Slovakia



Project DREAM SK-AT

Aims:

The individual project aims are:

Budget: total cost – approx. **14 mil. EUR**

Duration: April 2017 – November 2020

- Establishment of innovative research facilities:
 - Construction of the HEL in AT & the establishment of research facilities in SK to improve the integrated river management along the Danube river as a basis for collaborative research.
- Implementation of new river monitoring and modelling systems:
 - Establishment of a river monitoring station and instrumentation in SK and common modelling tools to improve environmental protection related to the Danube river and resource efficiency.
- Development of a R&D river research network:
 - Crossborder R & D network dealing with integrated Danube river research and management will be formed consisting of universities and research bodies.

Project Summary:

The aims are to establish joint research facilities, to enhance knowledge transfer and to develop innovative monitoring and modelling tools in the SK-AT border region. By enhancing knowledge transfer and capacity building between research bodies and universities, the project will lead to an improved cooperation and exchange of expertise between research and innovation actors using newly constructed and upgraded research infrastructures (RI). New monitoring stations as well as innovative monitoring techniques (e.g. operative boat) and modelling tools concerning hydrodynamics, sediment transport, morphodynamics, ecological parameters and remote sensing technologies in river and wetland science will lead to high quality and comparable data derived at the Danube River in the project reaches (cross border region and adjacent reaches).

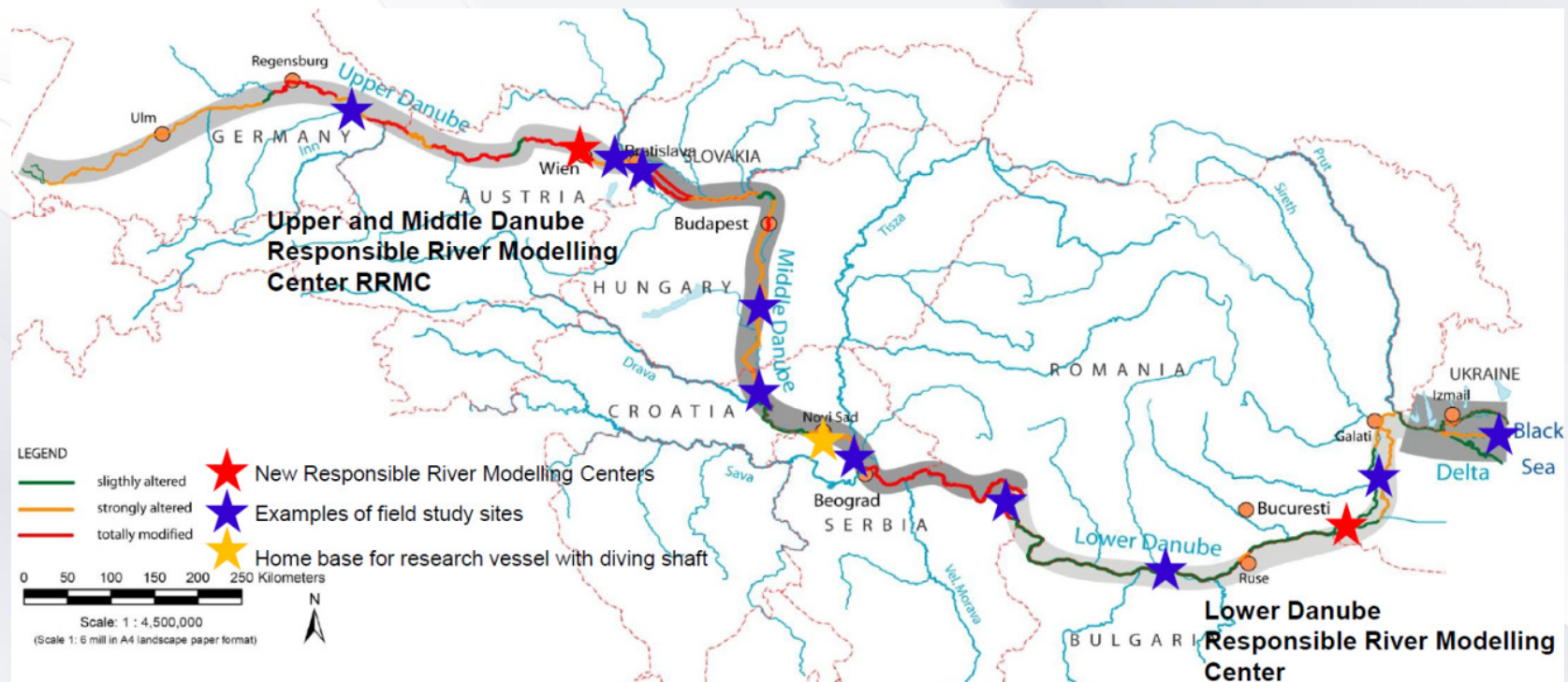
Project Summary:

A guidance document of monitoring and modelling tools will be published and available for the target groups. In SK (VÚVH) the hydraulic engineering laboratory (discharge 1,5 m³/s) will be modernized and upgraded according to the state of the art together with laboratory of geoinformatics and advanced river remote sensing (ILE SAS). In AT a hydraulic engineering laboratory will be constructed with 10 m³/s free flowing discharge. By using these RIs, the scientific basis for improving the Danube river management between Vienna and Bratislava will be developed, being available for target groups working in navigation, flood risk management, ecology, hydropower and drinking water supply. Furthermore, a close exchange of undergraduate and doctoral students and teachers between BOKU, VUVH and ILE SAS will be initiated and the research facilities will be jointly used for common teaching and research activities, also beyond the lifetime of the project.

Description of Activities:

- 1) Construction of two large Responsible River Modelling Centers/hydraulic engineering laboratories
- 2) Cooperation of existing hydraulic engineering laboratories
- 3) Formation of a cluster/network of river engineering simulation tools
- 4) Establishment of a network of field study sites along the Danube River and tributaries
- 5) Construction and operation of a research vessel for the whole Danube
- 6) Establishment of a network of existing and extended Danube River Research Institutions throughout all riparian countries (13 partners)

Implementation Ideas for Research Infrastructure:



Project Partners:

LP 1	University of Natural Resources and Sciences (BOKU)	AT
PP2	Institute of Landscape Ecology, Slovak Academy of Sciences (ILE SAS)	SK
PP3	Water Research Institute Bratislava (VUVH)	SK
PP4	BOKU - Wasserbaulabor Errichtungs und Betriebs Gesellschaft	AT
SP5	Federal Agency for Water Management	AT

Work packages:

WP 1	Project management	BOKU
WP 2	Communication	BOKU
WP 3	Monitoring and Modelling Tools	VUVH
WP 4	Knowledge exchange strategy and research network	ILE SAS
WP 5	Hydraulic Engineering LAB	BOKU
WP 6	Laboratory of applied geoinformatics and remote sensing and Hydraulic Engineering Lab	(ILE SAS/VUVH)

Thank you for your attention!

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Danube Region Strategy

PA7 Knowledge Society

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