



## Project Partner 3



### Torrent and Erosion Control Service

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### main focus of institution and department

In 1884 The forest-technical section for torrent and erosion control was founded at the Ministry of Agriculture (Vienna). In 1950 it was reorganized into PUH – Podjetje za urejanje hudournikov. The main work is protection from torrential floods, erosion, rockfall, landslides and avalanches. PUH analyzes and solves the erosion problems in torrential areas and on erosion-prone surfaces, protects roads, railways and buildings from erosion, avalanches, landslides and rockfall. Company supplies technical documentation, carries out consulting, technological and organizational services, and solves problems in the field of natural hazards/disasters protection – hazard mapping, projects of protective measures, and analyses of disaster management.

### short description of PP activities

#### WP 0: Project preparation - detailed partner activity and financial plan

#### WP 1: Transnational Project Management and Coordination

ongoing communication with the project manager, project financial reporting, submitting reports for the 1st level control, supporting the LP in his administrative and reporting tasks

#### WP 2: Communication and dissemination

preparing papers and support conferences; preparation of national material, LP support

#### WP 3: State-of-the-art analysis and methodology

WP 3.2 responsible partner; review of information sources as a part of plans; usability classification of hazard maps; usability classification of contingency plans; analysis and compilation of national contributions; organisation of national stakeholder meetings, development of group specifics; requirements, definition of stakeholder conditions and constraints; transnational compilation of user requirements; recommendation of measures and elaboration of adaptation strategies; State-of-the-art analysis reports brochure

#### WP 4: Development of SEES-CSA

development of decision support for situation assessment integrating; co-organization of workshop 6; development of common basic module; development of specific modules for test beds; co-organization of interim results & CSA EXPERTS workshop (06)

#### WP 5: Practical implementation

definition and evaluation of communication and contingency plan; requirements for hazard maps;



### **WP 6: Evaluation and recommendation**

evaluation of usability, communicability and effectiveness; recommendations and compilation report; development of proposals for legal and organisational improvements in their countries and regions; co-organisation of national stakeholder meetings

### **WP 7: Finalisation**

documentation of deliverables at partner level, provision to LP; 1st level control on a partner level, submitting all documents relevant for the last reporting period (financial report, certifications, progress report contribution) to LP; contributions for project's final report

### **short description of test area**

Test-bed "Savinja River between Nazarje and Prebold" – Slovenia, Celje region (SI)

The test-bed is situated in the western part of Štajerska region, close to city of Celje. The test-bed is located in transition from higher mountainous part to the Celje alluvial plain, so this area is exposed to flooding, erosion and sediment deposition. Test-bed extends over floodplains along Savinja River from Nazarje town in the middle Savinja valley to the Prebold town at the beginning of Celje plain. Wider area of test-bed covers around 35 square km.

Main part of watershed of Savinja River lies in an alpine region and river has snow-rain run-off regime, with first discharge pick in March or April, and second in November and December. Area has properties of Mediterranean and of continental climate as well. On the other hand Savinja, with its tributaries, has also torrential characteristics in times of intensive precipitation and storms.

From all natural hazards, floods caused by runoff of sustained rainfall or rapid snow melt and flash floods represent main threat in this area. In last 30 years there were three catastrophic floods in this area. The flood in 1990, when flood rated as event with 100-years return period, caused great damage on infrastructure and major parts of villages were flooded. Despite many flood protection measures built after this event, flood reoccurred in 1998 and again showed vulnerability of upper and middle Savinja valley and the need for mitigation of risk in this area. During the last disastrous flood event in 2007 Savinja watershed showed its torrential characteristics. Great amount of precipitation fell in a very short time. Fast runoff, strong erosive processes and debris flows have entailed high water events with great striking power.

Chosen river stretch is important as a near field observing area for planned flood protection measures for Celje city. Once the inflow dynamics will be known, the advanced monitored outflow from this river stretch could be used for better real time prognosis, needed for Celje flood protection activities.

### **what does the partner bring into the project?**

PUH supplies studies, technical and design documentation, carries out consulting, technological and organizational services, and resolves problems from the fields of protection from natural hazards, from civil engineering work and forestry science.

Experiences in relevant EU co-founded projects: - Interreg IIIA: Alps Visitors Information System – Natural Hazards (AV.IS); Interreg IIIB: Disaster Information System Of Alpine Regions (DIS - ALP); Interreg IIIB: Naturpotentiale Alpiner Berggebiete (:NAB); Interreg IIIB: Hazard Monitoring for Risk Assessment and Risk Communication (MONITOR); Interreg IIIC: Network Mountain Forest (NMF)

### **benefits for the partner by participation in the project**

- Proposals for new "Instructions for preparing the threat assessment"
- Proposals for improving of Emergency response plan in the event of floods
- Testing of project findings and results (adopted regulations and emergency plans; CSA tool)



### main contact



#### Jože Papež

In the MONITOR-II project activities, DI Jože Papež will contribute all of its professional knowledge and expertise for the successful execution of the assigned role, tasks and responsibilities. DI Jože Papež has experience in natural hazard assessment, hazard & risk mapping, biotechnical and soil bioengineering slope stabilization, planning, design and leading of torrent-, erosion-, avalanche- and rockfall-control projects, especially nature oriented flood and sediment control measures, leading of applicative research projects in different fields of integrated risk management of natural hazards: the sustainable protection concepts and protective measures, watershed management, disaster management, event documentation and management of protective and mountain forest. In organisation Jože has a few occupations: he is a professional engineer, self-dependence researcher, project leader, IT coordinator, Leader of R&D department.

- 1997 - B.Sc.F.E.; University of Ljubljana, Biotechnical Faculty (BF); Department of Forestry (Forestry and environment management, Torrent and Erosion Control)
- 1997 - Professional Engineer in PUH (team work in different projects)
- 1999 - professional examination at the IZS (Slovenian Chamber of Engineers) for a responsible construction project design or other project design, the provision of land surveying services, responsible works management and the provision of other engineering services) and status of Authorized Professional Engineer
- 2003 – assistant by Lecture "Management of torrential catchments" on University of Ljubljana, BF Department of Forestry and Renewable Forest Resources
- 2003 – 2010 working in 7 EU projects (PUH as an official project partner)
- 2003 – 2010 IT coordinator and project leader for developmental IT projects (GiS...)
- From 2007 – leading of R&D Department (integrated reduction of natural hazards)
- From 2007 he is an active member of Board of Directors of the Research Society INTERPRAEVENT. From 2008 he is an active member (representative of Slovenia, named by Ministry of environment ) of "Platform on Natural Hazards of the Alpine Convention", which was set up to develop common strategies designed to prevent natural hazards in alpine space as well as to deliberate on adaptation strategies. References: [www.cobiss.si](http://www.cobiss.si)

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