



Project co-financed by the European Civil Protection Financial Instrument

March 2010 – February 2013

DAMSAFE Project Cause, Achieved Results and Continuation



Coordinating Beneficiary

Directorate General Fire Safety and Civil Protection

Dipl. Eng. Denislava Pencheva



6th Bulgarian-Austrian Seminar, 7 November 2013, Sofia

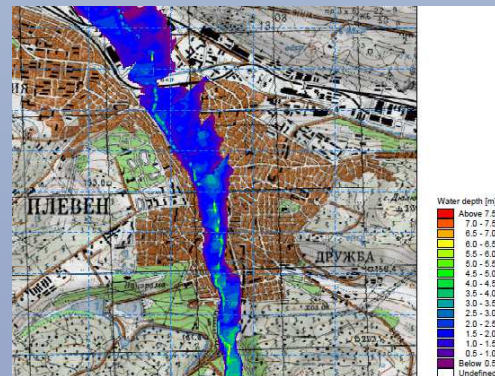


Project Idea

- Flood caused by dambreak in the town of Tsar Kaloyan, August 2007
- Necessity of detailed small dams' safety assessment
- Upgrade of the Manual for preliminary assessment of risky objects
- Importance of the dams' influence in the hazard and risk assessment according to the Flood Directive 2007/60/EC
- Idea for using/ reconstruction of small dams to retention basins

Three pillars objectives of the DAMSAFE project :

1. Detail safety assessment of small dams
2. Flood hazard and risk assessment in downstream urban areas on scenarios defined as a result of the safety assessment
3. Flood risk management through a possible reconstruction of small dams into retention basins



Project Partners:



AB1: WALD + CORBE Consulting Engineers, Baden-Württemberg, Germany



AB2: Institute of Hydraulic Engineering and Water Resources Management, TU Vienna, Austria



AB3: Department of Flood Water Management, Federal Government of Styria, Austria



AB4: Irrigation Systems (Ministry of Agriculture and Foods), Bulgaria



AB5: National Institute for Meteorology and Hydrology (Bulgarian Academy of Sciences), Bulgaria



AB6: University of Architecture, Civil Engineering and Geodesy in Sofia, Bulgaria

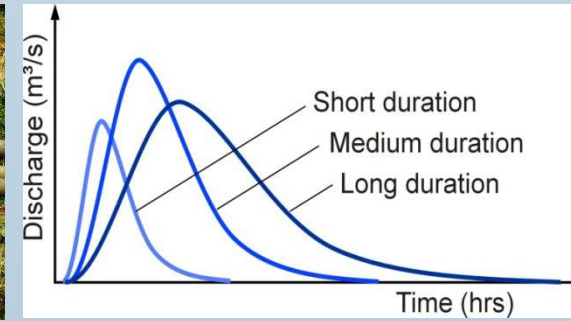


AB7: Sofia University "St. Kliment Ohridski", Faculty of Geology and Geography, Bulgaria

Project Tasks:

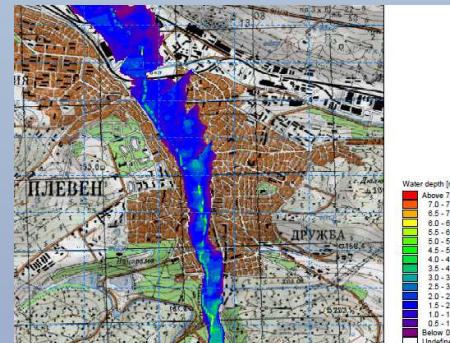
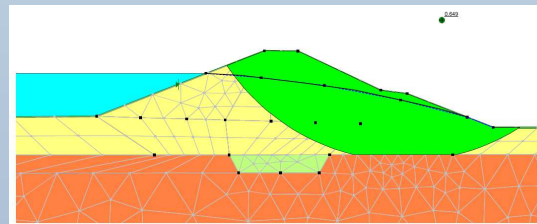
1. Preparatory works

Geodesy
Geology
Hydrology



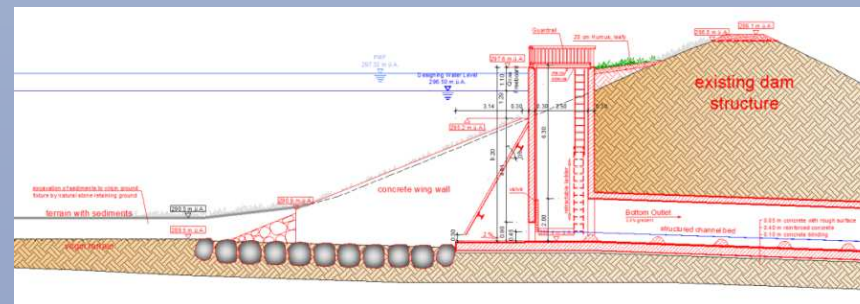
2. Safety Analysis

Dams Safety Assessment
Flood Hazard and Risk Assessment



3. Risk Management

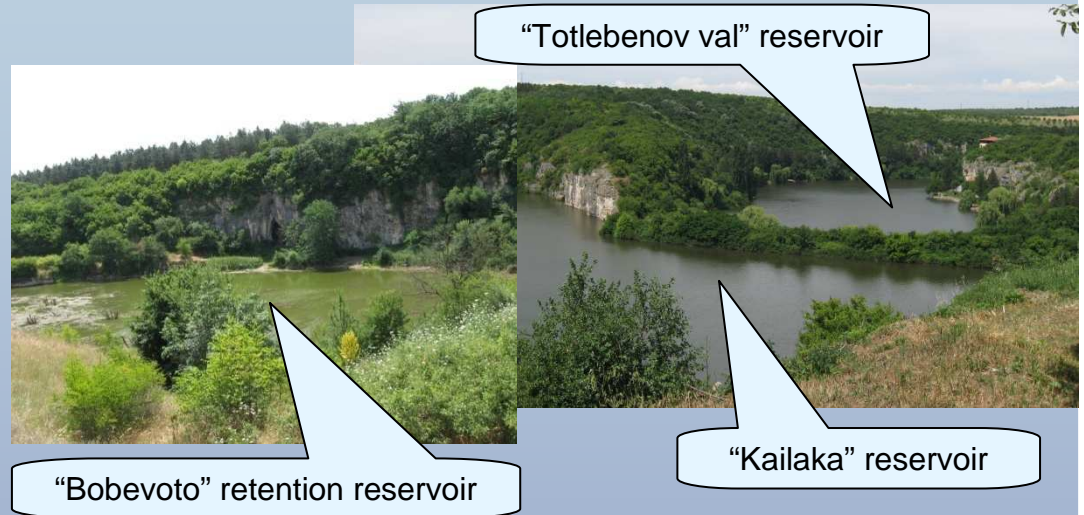
Assessment for reconstruction of a small dam into retention basin





Pilot Catchments:

Tuchenutza river chatchement – object of hydraulic modeling



Tchernialka river catchment - object of all tasks implementation



Achieved Results:

Local Results:

Digital Terrain Models

Geological Report

Hydrological Survey and Guidelines

Observed 5 small dams

Made hydraulic analysis

1D and 2D hydraulic models created

Elaborated Flood Hazard Maps

“Nikolaevo 2 dam” – detailed safety
assessed

Elaborated project for Reconstruction of
Nikolaevo dam into a retention basin

Global Results:

Discussions

Exchanged ideas, Know-how

Lessons learned

Established Contact and Opinion

With the contribution of the Civil Protection Financial Instrument of the European union



European
Civil Protection



Manual

for small dams' flood risk
assessment and management



This project has been funded with support from the European Commission. This material reflects the views only of the author and the Commission cannot be held responsible for any use which may be made of the information contained therein

www.damsafe.eu

Improving flood prevention and flood hazard awareness through the development of a standardized approach for small dams risk assessment and management based on European best practices

Summarizing all lessons learned and conclusions drawn from all project task implementation in a Manual for small dam' flood risk assessment and management

Continuation:

Tasks about dams' maintenance, safety assessment, rehabilitation and liquidation had been included in the Bulgarian National Program for Disasters Protection for the next program period 2014-2018.

Follow up ideas for collaborative projects:

Systems for early warning

Multi-hazard and risk assessment and management concerning the Disaster Plans elaboration and training

<http://www.damsafe.eu>



DS DamSafe

PROJECT

- PARTNERS**
- DGFSCP
- WALD + CORBE
- TU Vienna
- DFWM
- Irrigation Systems
- NIMH
- UACEG
- Sofia University

ACTIVITIES AND RESULTS

- MANUAL
- LAYMAN'S REPORT
- EVENTS

Workshop in Hugelshaim, Germany

The second workshop undertaken to the activity "Researching the role of the retention basins in dam safety" was conducted on the 3th -5th October 2012 in Hugelshaim, Baden-Wurttemberg, Germany. The workshop was organized by the company WALD + CORBE Consulting Engineers.

Joachim Wald – chief of the company, opened the workshop with a brief overview of the agenda. Afterwards the current processing status of the project activities and the project results by the involved project partners were presented and discussed. Achieved results from the actions "Safety assessment", "Hydrology study" and "Hydraulic modeling were reported.

In addition, the participants discussed the possibilities of a reconstruction of the dams into flood retention basins and the possibility of slitting the dams Nikolaevo 2 and Bobevoto in the framework of the project time and project budget of DamSafe.



[Download presentations](#)

EVENTS

Final Project Conference
On 26th – 27th of February 2013, the Final Conference of the DAMSAFE project will be conducted in hotel „Rostov“, Pleven, Bulgaria.
[see more—>](#)

Workshop in UACEG, Sofia
[see more—>](#)

Workshop in Sofia focused on the DAMSAFE Manual elaboration
On the dates 15th – 16th January 2013 in the building of DG "Fire Safety and Civil Protection", 30 "Nikola Gabrovski" Street, a Workshop on action „Elaboration of a Manual for Small Dams Flood Risk Assessment and Management" took place.
[see more—>](#)

Thank you for your attention!