SUFRI
Strategies of Urban Flood Risk Management

FACTS
Name: SUFRI
Duration: 2009 - 2011
Website: http://www.sufri.tugraz.at
End: Final international conference, autumn 2011, Graz

The Project

In the recent past, flood events occurred ever more frequently, and with snowballing effects for the landscape and its habitants. As a result of the current situations in many European cities that relate to flooding the demand of the population for absolute safety becomes top priority. In terms of the implementation of the Floods Directive in 2007 a broad basis of knowledge and tools, as well as the development of improved strategies for flood risk management are required.

Particularly in regard to urban areas flood protection and retention are more problematical than in rural areas due to limited space in combination with a high density of population. Flood analyses have shown that structural measures of flood protection are limited applicable and that absolute protection is not feasible.

The residual flood protection has to be achieved with non-structural measures such as forecast models, risk communication, and disaster control. Improving the risk awareness and increasing, thus, the public participation, respectively, is essential for coping with the effects in order to achieve an effective flood management.

The Objectives

The project SUFRI aspires an improvement of flood risk management in case of disaster flood especially in respect of non-structural measures.

To achieve a stable and effective flood event management, primarily the recent situation with the projected structural measures has to be evaluated to detect the weak spots in the technical system, infrastructure, as well as in the crisis coordination. Based on this information case scenarios will be worked out to get an estimation of the vulnerability of the structures, and additionally due to the analysed interaction of the differing consequences general arrangement drawings can be improved. Therefore six work packages will be carried out.

WP1	**Project management and coordination**
WP2	**Advanced warning systems of small urban catchment areas**
WP3	**Residual risk and vulnerability analysis**
WP4	**Risk communication**
WP5	**Optimization of the disaster control management**
WP6	**Use and international comparison of disaster control management**

The Case Studies

GRAZ - Austria
DRESDEN - Germany
LODI - Italy
VALENCIA / BENAGUASIL - Spain
ARENYS DE MAR - Spain

To achieve recommendations for good practice international differences for a risk based management of the consequences of disaster flood will be surveyed. To analyse national proceedings, infrastructure, the efforts of rehabilitation, as well as the public's risk perception, case studies of vulnerable European cities will be undertaken. With the case studies the transnational approach can be compared and improved.

WHAT IS ERA-Net CRUE?

It is a Programme within the 7th European Framework programme which aims to introduce structure within the area of European Flood Research by improving co-ordination between national progammes.

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The Project Partners

1 **GRAZ UNIVERSITY OF TECHNOLOGY**
Institute of Hydraulic Engineering and Water Resources Management

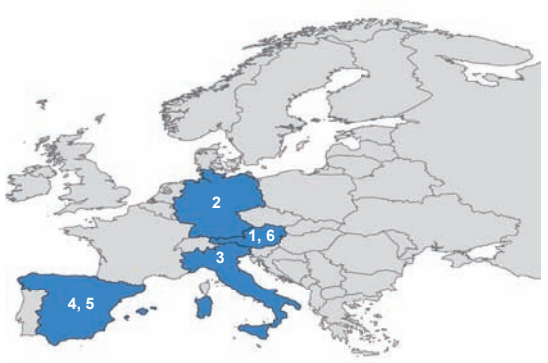
2 **DRESDEN UNIVERSITY OF TECHNOLOGY**
Institute of Hydraulic Engineering and Applied Hydromechanics

3 **UNIVERSITY OF PAVIA**
Department of Hydraulic and Environmental Engineering

4 **POLYTECHNICAL UNIVERSITY OF VALENCIA**
Department of Hydraulic and Environmental Engineering

5 **POLYTECHNICAL UNIVERSITY OF CATALONIA**
Sediment Research Transport Group

6 **UNIVERSITY OF GRAZ**
Department of Sociology, Research Center for Risk Assessment and Disaster Control



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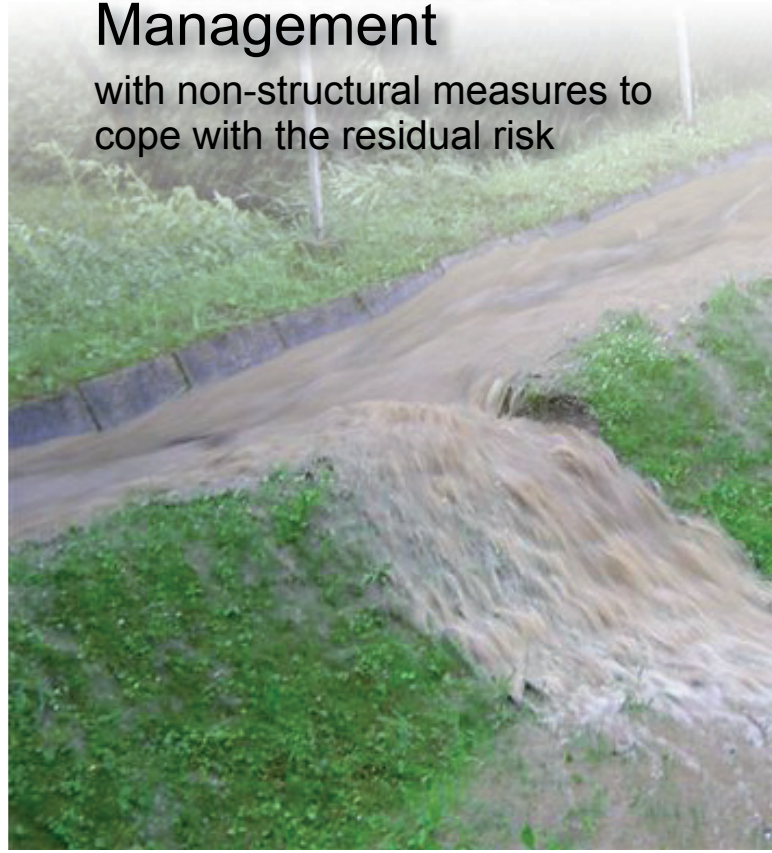
CRUE FLOODING ERA-NET http://www.crue-eranet.net

Sustainable Strategies of Urban Flood Risk Management

with non-structural measures to cope with the residual risk



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