

CORFU

Collaborative research on flood resilience in urban areas

Outline



- Background
- Project aim
- Time frame
- *Project Initiation*
- Management
- Partners
- Work packages
- *Working in the Consortium*
- Case studies
- Contact

Background



- Funded by the European Commission
- Framework Programme 7 Environment
- Theme: Natural Hazards
- Duration: Four years
- Budget: € 3.5m
- Target non-EU countries: China, India & Bangladesh

Aims



- Joint research between European and Asian institutions
- Scientifically sound management of the consequences of future urban flooding
- Assess flood impacts and possible responses by envisaging different scenarios of relevant drivers
- Quantify the cost-effectiveness of resilience measures

Time frame



- Start: 1 April 2010
- Finish: 31 March 2014
- CORFU conference in Sep 2013

Project Initiation



- Approached by colleagues in EU countries
- Development of work packages
 - Through emails
 - Project proposal meeting at Exeter (EU project leader)
 - Attended in December 2008, submitted March 2009
 - Time between project development and submission
 - 3-4 months

Work packages



- WP0: Synergies and governance
- WP1: Drivers
- WP2: Urban flood modelling
- WP3: Impact assessment
- WP4: Flood management strategies
- WP5: Dissemination
- WP6: Coordination and management

- Coordinating institution: **University of Exeter**
- Project coordinator: ***Slobodan Djordjević***
- WP1 leader: **TUHH (*Stefan Kurzbach*)**
- WP2 leader: **DHI (*Ole Mark*)**
- WP0, WP3, WP5 and WP6 leader: **UNEXE (*Slobodan Djordjević and David Butler*)**
- WP4 leader: **UNS (*Philippe Gourbesville*)**
- Scientific Project Committee

CORFU
FP7 Collaborative research on
flood resilience in urban areas

Partners



UNIVERSITY OF
EXETER

DHI

TUHH
Hamburg University of Technology

Université
Nice SOPHIA ANTIPOLIS

Hamburg Institute
of International
Economics
HWWI

AREP

CLABSA



Cranfield
UNIVERSITY

CETAQUA
CENTRO TECNOLÓGICO DEL AGUA

hyds
hydrometeorological
innovative solutions



DURAVERMEER

IWMI
International
Water Management
Institute



UNIVERSITY OF
EXETER

Université
Nice SOPHIA ANTIPOLIS

TUHH
Hamburg University of Technology

DHI

Working in the consortium



- More than 15 partners and 6 case study countries
 - Provided good collaboration opportunities for interaction and working with multi-national countries
- Reporting
 - First report in due in September (18 months) – working on it
 - Review workshop in Denmark 7-9 November 2011
- Financial Aspects
 - EU organizations have dedicated staff to look after project and fund management since they have several EU projects; But here, staff are used to DST norms and they need to be made aware of EU norms as they are very much different from DST norms
 - Loss in exchange rates, amount needs to be frozen in INR

Working in the consortium



- Each city has organized a workshop
- We also organized a workshop at IIT Bombay as part of the project in February 2011.
- Attended by WP leaders and other team members
- (not all are required to attend!)
- Partners from Seoul and Taipei joined on their own without any financial commitment from EU as they found project of interest

Case study cities



WP0: Synergies and governance



- Establishing and maintaining links with major recently completed and ongoing national and international flooding-related research projects

- Relevant economic, societal, climatic and other natural factors which control urban growth
- Development of drivers-pressures-state-impact-response (DPSIR) logical framework
- A computer model for spatially based urban growth
- Case studies to develop projections of climate change

WP2: Urban flood modelling



- Consistent framework for analysis of flood risks on different urban scales
- Consistent procedures for calibration of urban flood models
- Influence of the uncertainty of model inputs on urban flood modelling results
- Open GIS-based flood risk mapping tool
- Impacts of urban growth and climate change on flood probability
- Effectiveness of individual mitigation measures
- State-of-the-art real-time urban flood forecast

WP3: Impact assessment



- Damage assessment approaches and models
- Health impact assessment methodologies
- Application to estimate potential flood damage in case study cities based on drivers analyzed in WP1 and modelling results in WP2
- Efficiency of adaptive management strategies
- Better understanding of the interrelationship between risk perception, level of preparedness and actual risk

WP4: Flood management strategies



- Existing flood risk management practices established in Europe and Asia
- Possibilities of adaptation for the urban fabric, institutional and social systems
- Case studies
- Good practice guidance able to integrate the outputs from WP1, WP2 and WP3
- Experiment with new tools
- Guidance on flood risk management for urban planners

WP5: Dissemination



- Dissemination of new methodologies
- Workshops
- Engendering a 'flood resilience' culture
- Engagement of policy makers
- CORFU Conference (Sep 2013)

- Co-ordination of the project within a robust organisational framework
- Supporting collaboration, overseeing science and society issues
- Ensuring the financial viability
- Ensuring good internal and external communication

Project website: www.corfu7.eu

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