



Irish Dissemination Event

Dublin Castle, 22 November 2011

A Brief Overview of FRMRC

***Prof. Ian Cluckie, FRMRC Chairman
Swansea University***



The challenges of flooding

- *Flooding from rivers, estuaries and the sea poses a serious threat to millions of people around the world.*
- *Just within the UK the total value of assets at risk from flooding now exceeds £200 billion.*





Responding to the challenge

- *The consortium aim is to undertake world leading research in response to the challenges of:*
 - *climate change*
 - *changing land use*
 - *stakeholder engagement*
 - *balancing engineering intervention with non-structural measures to promote sustainable flood risk management*





FRMRC1 – Scope of Work

Research was performed in 7 Priority Areas:

- *Land use Management*
- *Real time Forecasting*
- *Infrastructure*
- *Inundation Modelling*
- *Urban Flooding*
- *Stakeholders and Policy*
- *Geomorphology, Sediments and Habitats*
- *Risk and Uncertainty*

Contact Information

Programme integration
Dr Stephen Huntington
s.huntington@hrwallingford.co.uk

Land Use Management
Professor Howard Wheater
h.wheater@imperial.ac.uk

Real-time Flood Forecasting
Professor Ian Cluckie
i.d.cluckie@bristol.ac.uk

Infrastructure Management
Dr Paul Sayers
pbs@hrwallingford.co.uk

Whole Systems Modelling
Professor Garry Pender
g.pender@sbe.hw.ac.uk

Urban Flood Management
Professor Adrian Saul
a.j.saul@sheffield.ac.uk

Stakeholder and Policy
Dr Joe Howe
jmhowe@fs1.go.man.ac.uk

Geomorphology, Sediments and Habitats
Professor Colin Thorne
colin.thorne@nottingham.ac.uk

Risk and Uncertainty
Professor Keith Beven
k.beven@lancaster.ac.uk

Project secretariat
Mr Daniel Spagni
daniel.spagni@umist.ac.uk

www.floodrisk.org.uk



Objectives

- The establishment of a programme of "cutting edge" research to enhance flood risk management practice worldwide
- The integration of activities from each research priority area to ensure cross fertilisation of ideas throughout the programme
- The dissemination of the research findings through proof-of-concept application at selected case study sites
- The short term delivery of tools and techniques to support improved flood risk management in the UK
- The development and training of the next generation of flood risk management professionals through dissemination of the consortium's research.



www.floodrisk.org.uk



Aim

The aim of the flood risk management consortium is to undertake research that will enhance delivery of effective flood risk management.



www.floodrisk.org.uk



FRMRC1 - Dissemination

To date, the research has been disseminated internationally via:

- *90 papers in refereed journals*
- *> 100 conference papers*
- *14 PhD theses*
- *>50 seminars*
- *12 User Focused Reports specifically designed for FRM Professionals*

flood risk
management
research consortium

FRMRC

ACCOUNTING FOR SEDIMENT IN RIVERS

A tool box of sediment transport and transfer analysis methods and models to support hydromorphologically-sustainable flood risk management in the UK



Nick Wallerstein

University of Nottingham

August 2006
FRMRC Research Report UR9
Project Web: www.floodrisk.org.uk



FRMRC2 – Scope of Work

Research is organised into 5 super Work Packages:

1. Catchment Inundation Modelling

Leader: Prof. Garry Pender, Heriot Watt Univ.

2. Coastal Inundation Modelling

Leader: Prof. Peter Stansby, Univ. Manchester

3. Urban Flood Modelling

Leader: Prof. Adrian Saul, Univ. Sheffield

4. Infrastructure

Leader: Mr. Paul Sayers, HR Wallingford

5. Land Use Management

Leader: Prof. Howard Wheeler, Imperial

College London



Learn More

- *All activities, outcomes and deliverables may be viewed at the FRMRC website:*

<http://www.floodrisk.org.uk/>
- *General Enquiries should be directed to the Chair of the FRMRC **Professor Ian Cluckie**, University of Swansea.*
- *Enquires regarding a particular Super Work Package should be directed to the **SWP leaders** listed in the previous slide.*