

Introduction to the EC Research effort in the field of Natural Hazards and disasters



Denis Peter Climate Change & Environmental Risks Unit Research Directorate General European Commission



EUROPEAN COMMISSION

Community research



provision of legislation, trained personnel

and resources.

disaster.

3 stages of DRMC

- Risk Assessment
- Mitigation/Prevention
- Preparedness

DISASTER RESPONSE

- Warning/Evacuation
- Saving People
- Providing Immediate Assistance
- Assessing Damage

POST-DISASTER

- Ongoing Assistance
- Restoration
 of Infrastructural
 Services
- Reconstruction (Resettlement /Relocation)
- Economic & Social Recovery
- Ongoing Development Activities
- Risk Assessment Mitigation/Prevention

DMCVII - @TORQAID 2003





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Who can participate in FP7?

• In principle:

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- Any legal entity
- From EU or Associated States
- From the International Cooperation Partner Country list (ICPC)
- Some provision are foreseen in relation to funding for:
 - International organisations, other non-EU countries
- Minimum conditions
 - Number of legal entities, type of instruments, ...
 - programmes may lay down specific conditions (see call fiche)
- More information: Rules for participation Regulation EC 1906/2006 (0J L 391 /30.12.06









*Draft figures



Ten core themes that will generate annual work programmes

1. Health

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- 2. Food, agriculture and biotechnology
- 3. Information and communication technologies
- 4. Nanosciences, nanotechnologies, materials and new production technologies
- 5. Energy
- 6. Environment (including climate change)
- 7. Transport (including aeronautics)
- 8. Socio-economic sciences and the humanities
- 9. Space
- 10. Security

themes with relevance to natural hazards, risks and disasters

Cooperation Collaborative research with relevance to natural hazards/disasters

Information and communication technologies -ICT for sustainable growth

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- ICT-enabled systems for improving preparedness and capacity to respond to natural and man-made disasters
- ICT solutions for prevention, alert and rescue to minimise impacts of climate change
- ICT for Trust and security (critical infrastructures and communication)













Environment (including Climate change) New call for proposals-deadline 5 January 2010

FP7 Activity Climate change, Pollution and Risks Sub Activity Natural Hazards

Hazard assessment, triggering factors and forecasting:

• 2010: no call

Vulnerability assessment and Societal impacts

• 2010: Building a culture of risk prevention in Europe





Environment (including Climate change) New call for proposals-deadline 5 January 2010

FP7 Activity 6.1 Climate change, Pollution and Risks Sub Activity Natural Hazards

Risks assessment and management

• 2010: Early warning and drought risks in Africa

Multi-risk evaluation and mitigation

• 2010:-New methods for multi-hazard and multirisk assessments

-Social science, natural hazards and decision making process





Environment (including Climate change) New call for proposals-deadline 5 January 2010

FP7 Activity Sustainable management of resources Sub Activity -Conservation and sustainable management

Urban development

2010: -Assessing vulnerability of urban systems, populations and goods in relation to climate induced natural disasters in Africa

Integrated forest research

2010-no call







*Draft figures

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IDEAS

Research related to natural hazards within the ERC programme

Ideas

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Frontier research actions, implemented through the European Research Council ERC http://erc.europa.eu

Europe-wide competitive funding structure for *investigator-driven 'frontier research'*:

- 1. Starting Independent Researcher Grants
- 2. Advanced Investigator Grants

fields of life sciences, physical sciences, engineering and social sciences and humanities

See : "PE10 **Earth system science**": physical geography, geology, geophysics, meteorology, oceanography, climatology, ecology, global environmental change, etc.



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PEOPLE - Human potential

Training and Career development of researchers

• Initial training of researchers/ Marie Curie Networks

• Life-long training for experienced researchers

•Industry-Academia Partnerships and Pathways

• International outgoing and incoming fellowship

• Specific actions





member of the EC) is taken into account.



Capacities New call for proposals

- Currently call FP7_INFRASTRUCTURES-2010-1, deadline 3/12/09
- <u>2 topics of interest:</u>
- INFRA-2010-1-27: RI for Earthquake Hazard; Integrating Activity for existing RI (1 comprehensive project, max. EC contribution 10M€)
- INFRA-2010-2.2.2: EPOS (Infrastructure for the study of tectonics and Earth surface mechanics); Preparatory Phase for new RI, defined in the ESFRI Roadmap 2008



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Applied Research in relation to natural hazards/disasters and the role of **JRC**

JRC : Joint Research Centres

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• Direct non-nuclear research under FP7 (€ 1.751 billion)

• JRC plays a central role in using and/or translating research results into knowledge that underpins EU policies, which include EC policy needs in relation to the full crisis management cycle including a broad range of topics on natural hazards.





Find a call for research : http://cordis.europa.eu/fp7/home_en.html

FP7 information http://ec.europa.eu/research/fp7/index_en.cfm





Thank you for your attention



