International Workshop: Governance of Climate-Related Risks in Europe: The Need for Policy Oriented Research; Brussels, 08-09 September 2011

CapHaz-Net Social Capacity Building

for Natural Hazards Toward More Resilient Societies

Social Capacity Building for Natural Hazards

Toward more resilient socities

Christian Kuhlicke (London/Leipzig) & Annett Steinführer (Braunschweig)





Introduction

Disasters are the result of lacking capacities

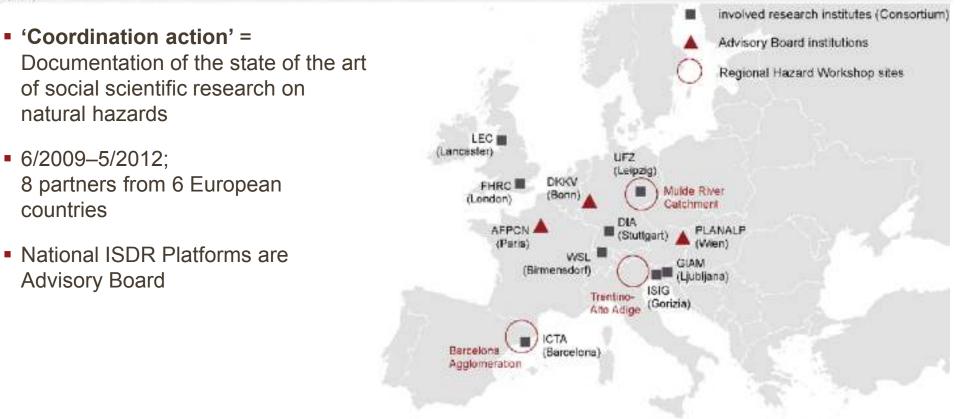
Not every windstorm, earth tremor, or rush of water is a catastrophe. A catastrophe is known by its work; that is to say, by the occurrence of disaster.
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Carr 1932





Introduction

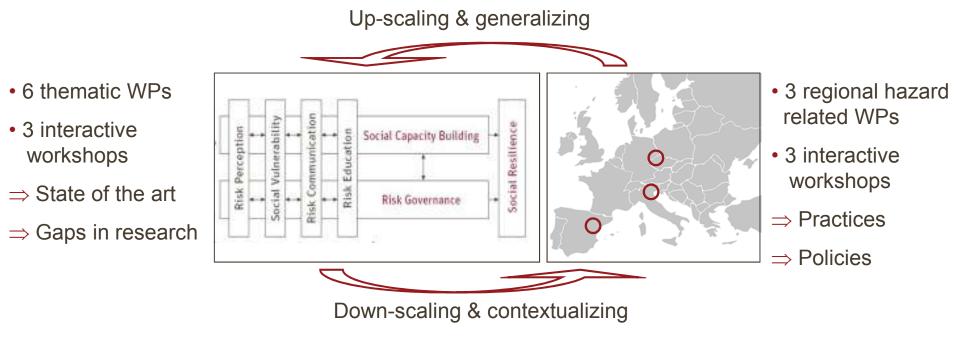






Introduction

Working structure of Caphaz-Net

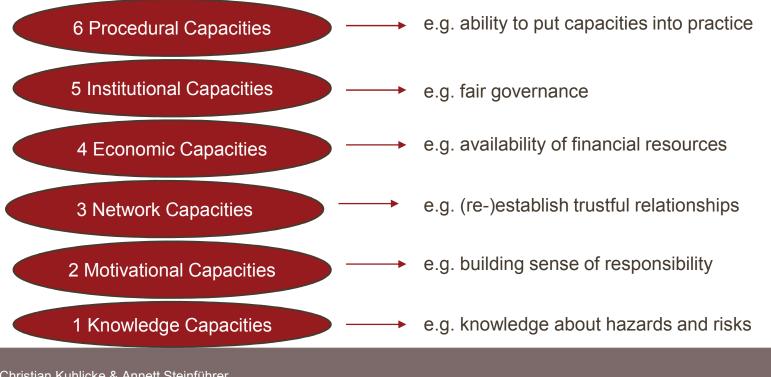


 \Rightarrow Elaborate strategies and recommendations





Different capacities need to be developed







Multi-actor process

- The example of Saxony (Germany)
- (1) Government of the Free State of Saxony (Ministries)
- (2) State Office for the Environment, Agriculture and Geology (LfULG)
- (3) State Dam Administration of the Free State of Saxony (LTV)
- (4) Regional Planning Authorities
- (5) State Directories
- (6) Districts
- (7) Municipalities (mayors and councils)
- (8) Fire brigades, THW, Red Cross (mostly volunteers)
- (9) NGOs and lobby groups
- (10) Technical/scientific organisations
- (11) Consultancy/Planning companies
- (12) Insurance
- (13) Organized citizens
- (14) Citizens

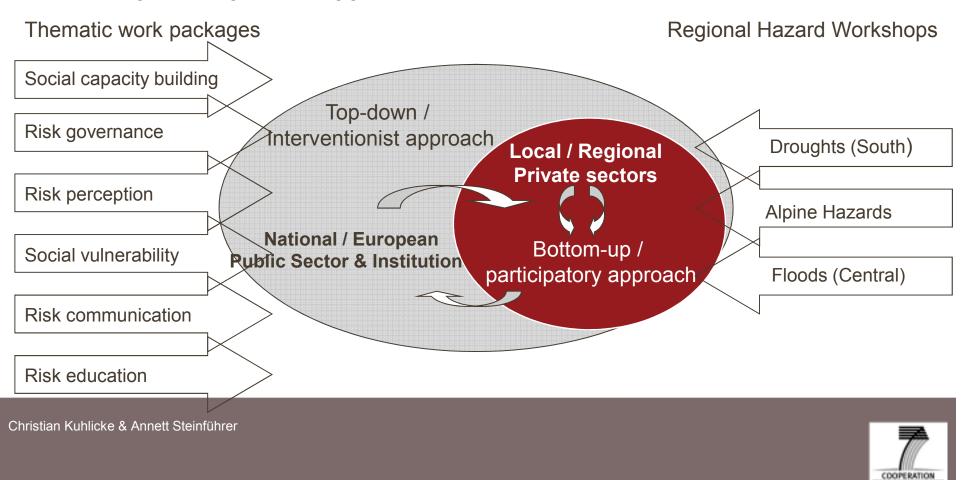
Private Sector (e.g. households, communities, companies) Public Sector (e.g. risk and disaster management organizations)

(legal framework, policies and programs)





Bottom-up and top-down approaches are needed





First findings Risk perception studies

(Wachinger et al. submitted)

Informational factors Source and level of information, media coverage, involvement of experts in risk management, **trust in individual providing information**

Personal factors

Age, gender, educational level, profession, personal knowledge, **personal disaster experience**, **trust in authorities,** trust in experts, **confidence in different risk reduction measures**, involvement in cleaning up after a disaster, feelings associated with previously experienced floods, world views, degree of control, and religiousness

Context factors

Economic factors, vulnerability indices, home ownership, family status, country, area of living, closeness to the waterfront, size of community, age of the youngest child

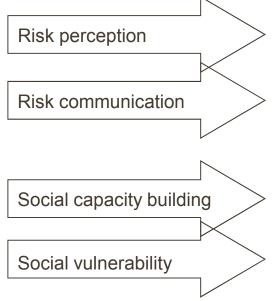




First findings

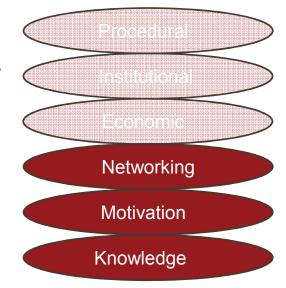
Bottom-up / participatory capacity building

• Insights from the literature: Participatory processes have a ...



Positive influence on risk awareness, and possibly behaviour & engagement Increase trust in governing organisations and improve relationships Achieve wider acceptance and improve mutual understanding

Stimulate self-help of communities & increases agency Integration of local knowledge, experiences and perceptions







First findings

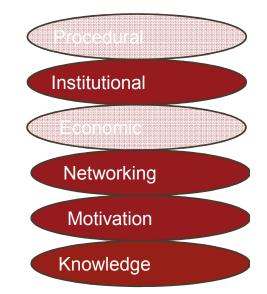
Bottom-up / participatory capacity building

• Insights from the regional hazard workshops ...

Alpine Hazards

Floods

- Participation is practice in many European countries, but mostly taking place at the level of projects (e.g. building a dike)
- Idea of a "hazard facilitator" is gaining relevance in some countries
- Importance of the voluntary emergency sector for building trust and networking



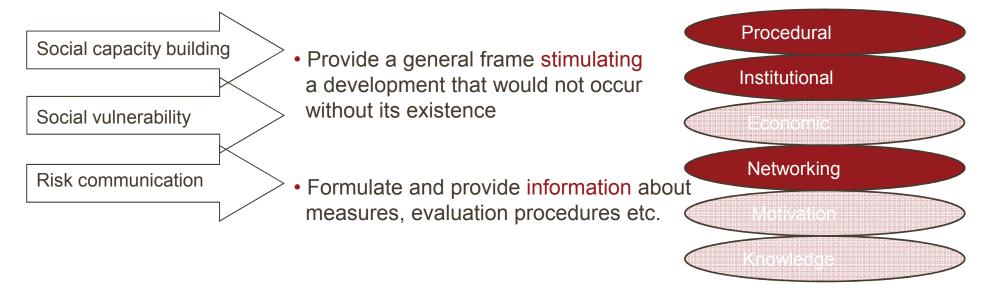




First findings

Top-down / interventionist capacity building

• Insights from the literature: Interventionist approaches ...







Next steps

Recommendations:

(1) Pros and Cons of bottom-up and top-down approaches

- (2) How to do it?
- ⇒ Specific steps and good examples from risk communication & risk education studies, from vulnerability assessments and from regional hazard experiences
- (3) Utilizing existing practices and policies
- ⇒ Which existing and developing practices, instruments and policies in DRR and CCA appear as particularly relevant for social capacity building





Want to know more?

www.caphaz-net.org

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- Gordon Walker, Rebecca Whittle (Universität Lancaster)
- Gisela Wachinger, Ortwin Renn (DIALOGIK Stuttgart)
- Sue Tapsell, Simon McCarthy, Hazel Faulkner (Flood Hazard Research Centre)
- Blaž Komac, Matija Zorn (Slowenische Akademie der Wissenschaften Ljubljana)
- Corina Höppner, Matthias Buchecker, Michael Bründl (WSL Birmensdorf & SLF Davos)
- Louis Lemkow, Meera Supramaniam, Marina Di Masso Tarditti (ICTA Barcelona)
- Chiara Bianchizza, Luigi Pellizzoni, Anna Scolobig (ISIG Gorizia)

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The CATALYST Project

Capacity development for natural hazards risk reduction and adaptation

- EU FP7, coordinating action
- Project goal: to bring risk management knowledge to bear on economic development issues and to make NH/DRR a critical component of the sustainability agenda.
- Approach: creation of diverse opportunities for researchers and stakeholders to identify and share knowledge about best practices related to natural hazard and disaster risk reduction.
- Duration: Oct 2011 Sept 2013
- Project Web Site: www.catalyst-project.eu (online in Oct. 2011)

- seeconsult GmbH (coordinator)
- UNU -Institute for Environment and Human Security

Natural hazards

- Helmholtz Centre for Environmental Research
- Alterra Wageningen University
- Fondazione Eni Enrico Mattei (FEEM)
- National Geologic Survey of Denmark
 and Greenland
- Academy of Sciences for the Developing World



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»Taking the Naturalness out of 'Natural' Disaster (O'Keefe et al. 1976)

