

Social vulnerability and adaptive capacity

International Science and Implementation plans

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Expressed needs

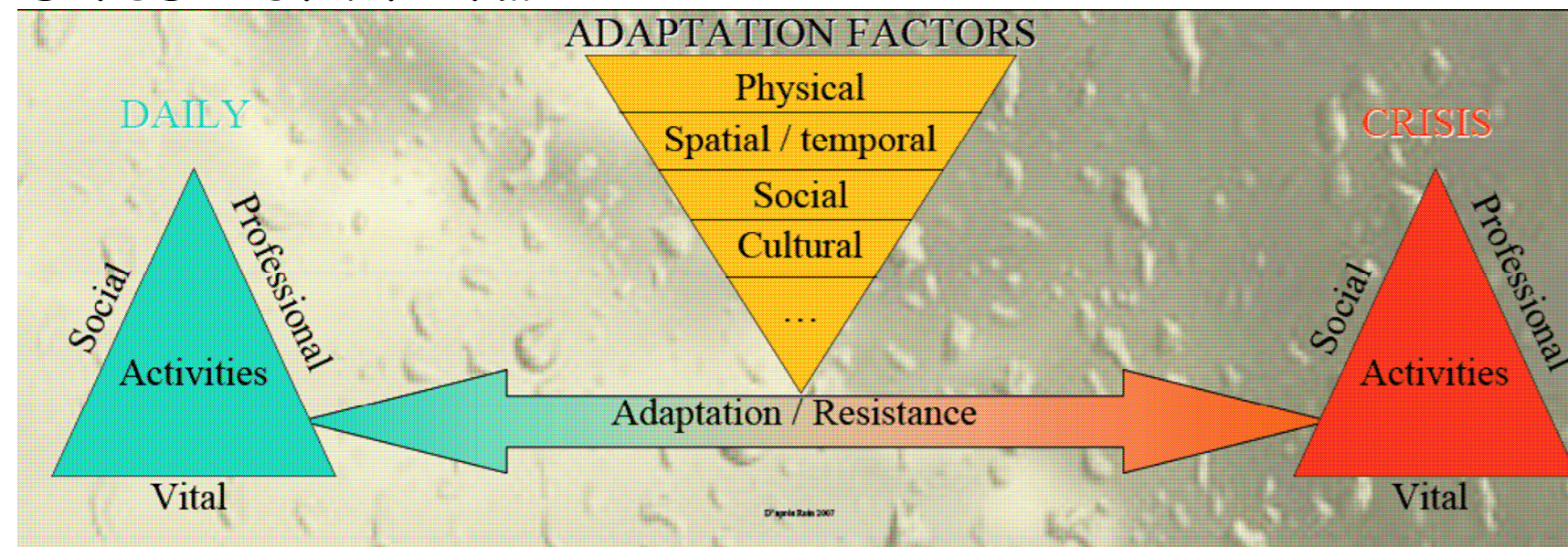
- Currently White Book
 - addresses too general questions
 - Focuses on climate change impacts while no team works on it in HyMeX
- Need to focus on specific topics/questions
- To improve interactions with other working groups
- To propose operational science plan and implementation plan
- Compared studies between North and South mediterranean countries

Key scientific issues

- How to reduce extreme events and climate change impacts in Mediterranean area ?
- 2 main topics :
 - extreme events : Heavy precipitation, floods and flash floods
 - water scarcity
- How to monitor vulnerability factors and adaptive strategies ?

Global scientific strategy

- Link and integration with other projects
 - MEDEX, MedCLIVAR, EU projects
- Develop data access especially at small scale
- Develop an observation methodology on specific sites : OHM-CV...



VULNERABILITY FACTORS	INDICATORS
Socio demographic and economic attributes Demography, Land use, cohesion of social structures, land values	Population density Building density Association density Age, Gender, Professions
Psycho-socio-cultural factors	Hazard Knowledge Risk perception, press coverage
Warning systems, Crisis and recovery process	Lead-time, Spacial accuracy Emergency response quality Communication relevency
Public policy and risk management	System of actors Decision making process
Practices at different scales (individuals, meso-scale...)	Travel patterns evolution and adaptation
Infrastructures quality and accessibility	Type of building, protection structures
Space and time circumstancies of the event	Time of the day / night Urban / rural area
...	...

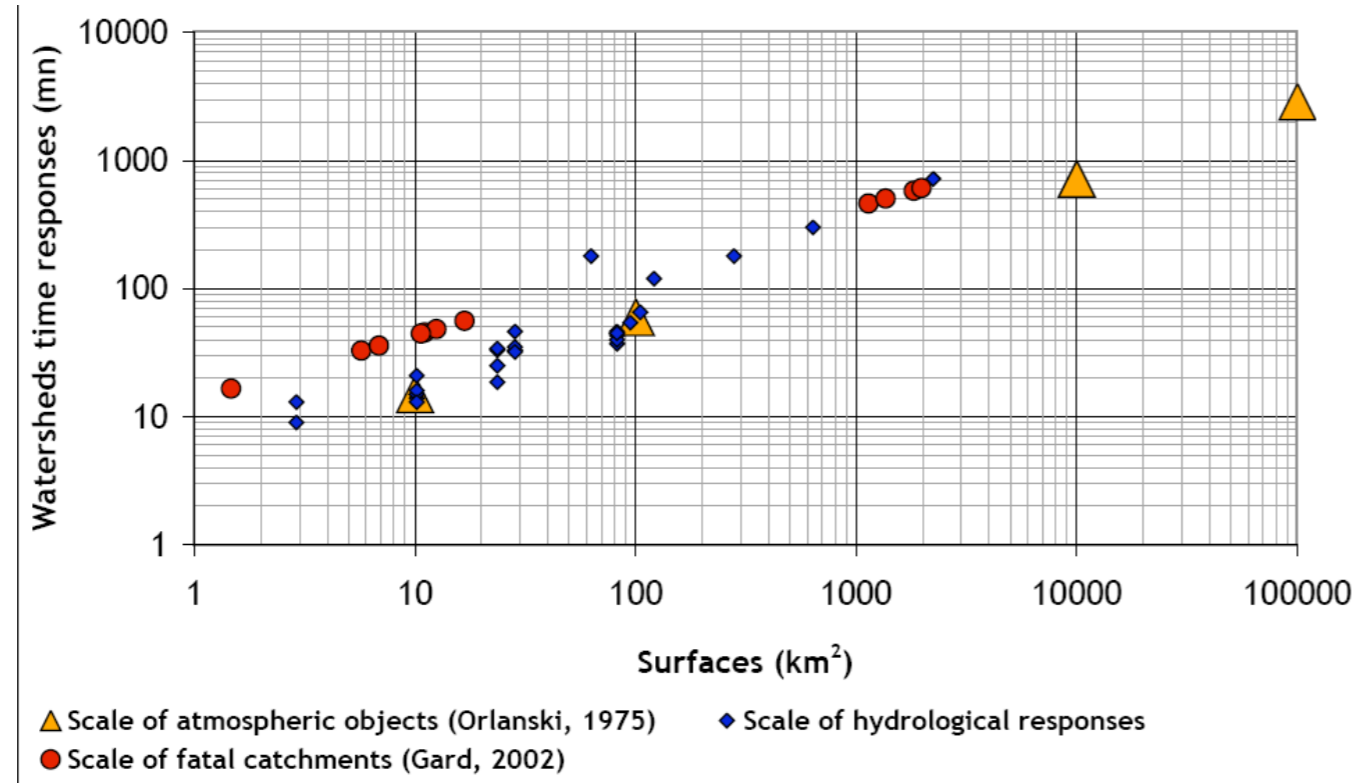
Implementation plan : LOP

- Perception of risk evolution
 - Systematic questionnaire surveys and cognitive mapping
 - Press coverage
- Social organisation evolution
 - Crisis management
 - Warning process
 - Rules, actors and practices
- Spatio-temporal practices evolution
 - Evolution in daily travel patterns and factor of adaptation
 - Migration and tourism
- Interactions
 - Hydrological, meteorological and human impacts data collection
 - Radio, video records, ... collection
 - Re-insurance and Insurances data

Implementation Plan : EOP

Post event analysis

- Deluge : interdisciplinary research strategy
- Coupled physical and social post-event investigations



Implementation plan : SOP

- Observe drivers' behavior on flooded roads
- Communication chain time analysis
- Operational services practices / process :
in situ observation

Needs and existing limitation

- Lack of human resources specially on the water scarcity topic
- Selection of other observation sites :
OMERE, Israël....
- How to integrate studies with other HyMeX groups ?