



European
Commission



H2020 DRS and CoU – Enhancing connections among different actors

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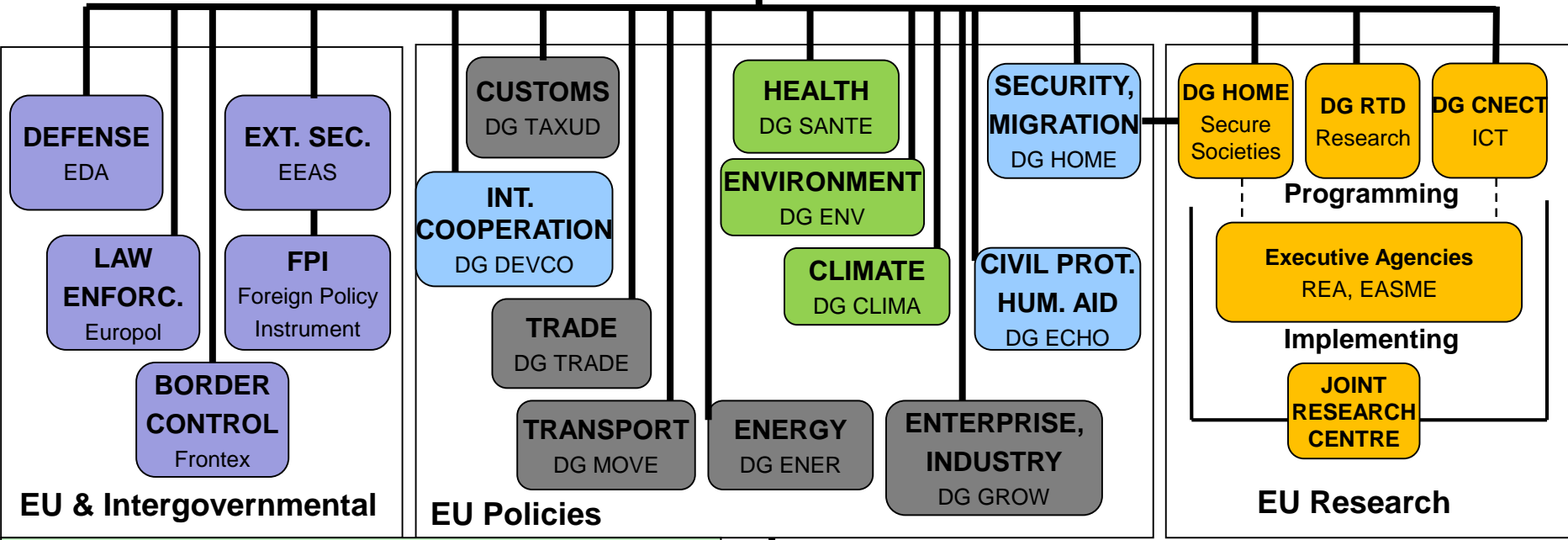
Innovation and Industry for Security

DG HOME



EU Bodies

Member States
(Committees)



+ INTERPOL, NATO, UN Bodies

Industry, Stakeholders, NGO's, Researchers, Experts, etc.

Disaster cycle – Links to operational features



THE DISASTER RISK MANAGEMENT CYCLE



DISASTER RISK MANAGEMENT CYCLE (DRMC) DIAGRAM

Definitions:

Mitigation/Prevention:

Activities which eliminate or reduce the chance of occurrence or the effects of a disaster.

Preparedness:

Planning on how to respond to disasters should they occur. This includes the provision of legislation, trained personnel and resources.

3 stages of DRMC

PRE-DISASTER

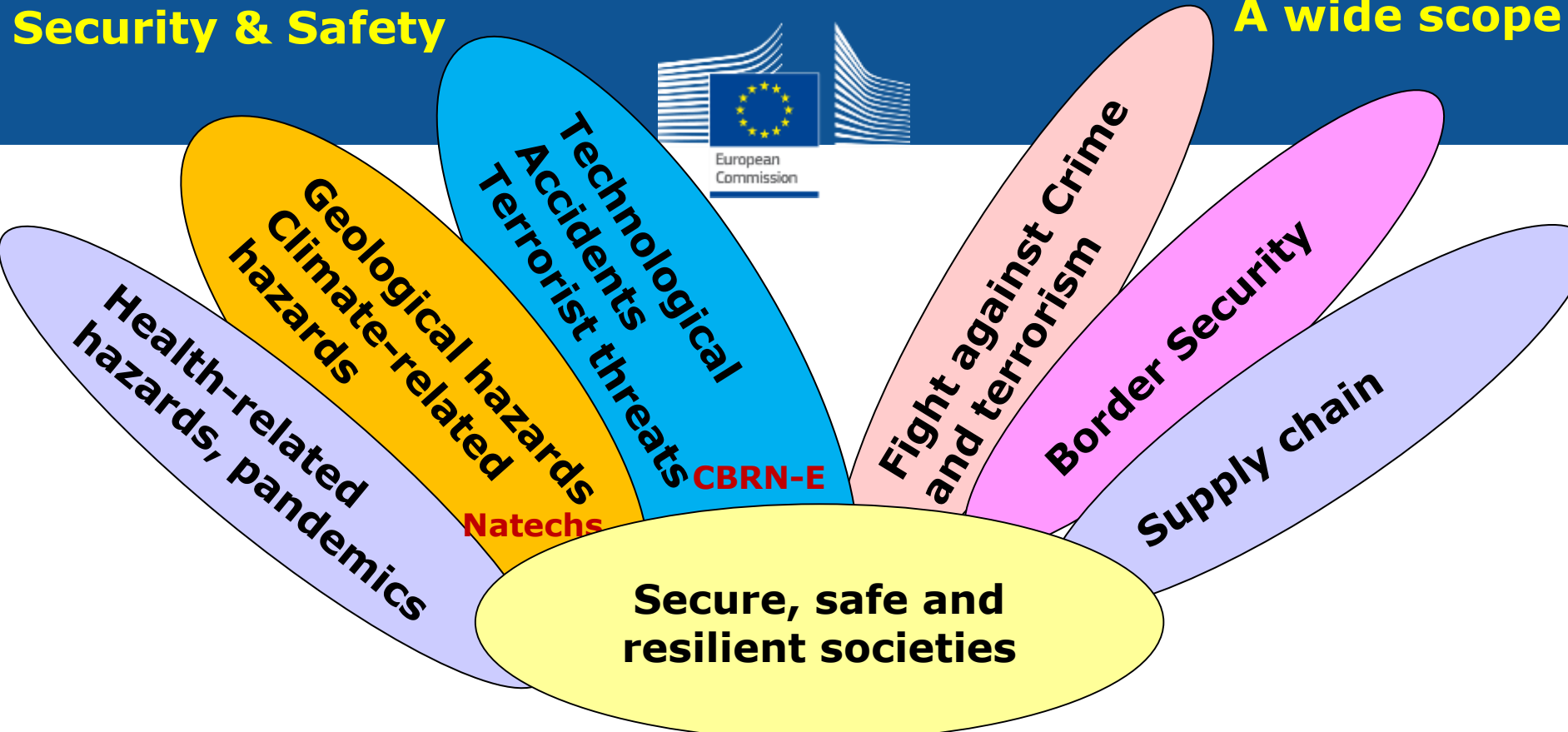
- Risk Assessment
- Mitigation/Prevention
- Preparedness

DISASTER RESPONSE

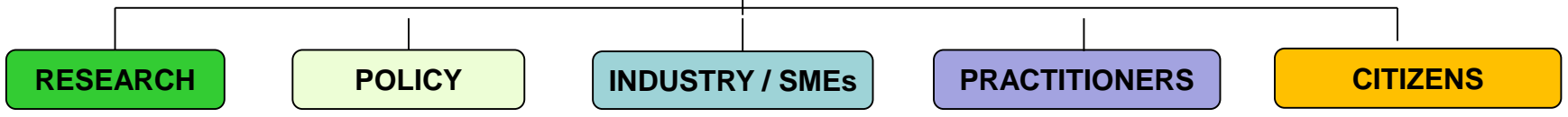
- Warning/Evacuation
- Saving People
- Providing Immediate Assistance
- Assessing Damage

POST-DISASTER

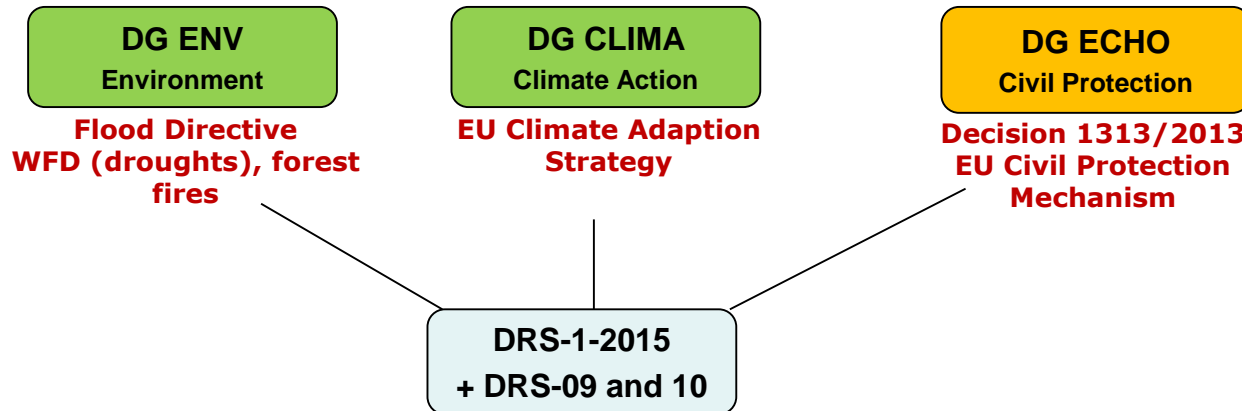
- Ongoing Assistance
- Restoration of Infrastructural Services
- Reconstruction (Resettlement /Relocation)
- Economic & Social Recovery
- Ongoing Development Activities
- Risk Assessment Mitigation/Prevention



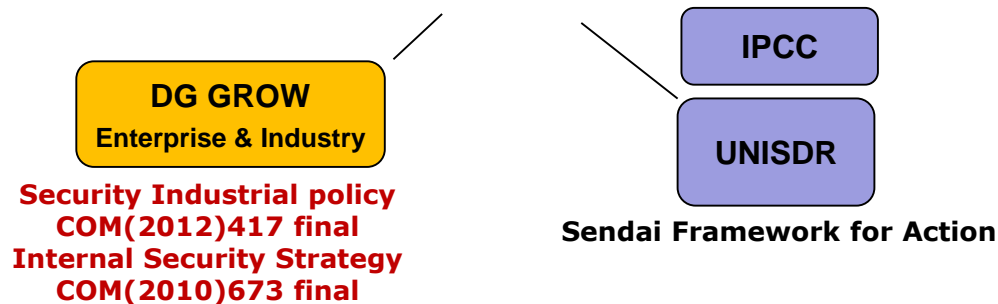
COMMON GROUND: OPERATIONAL MANAGEMENT FEATURES



Climate-related Hazards – Interacting with policies



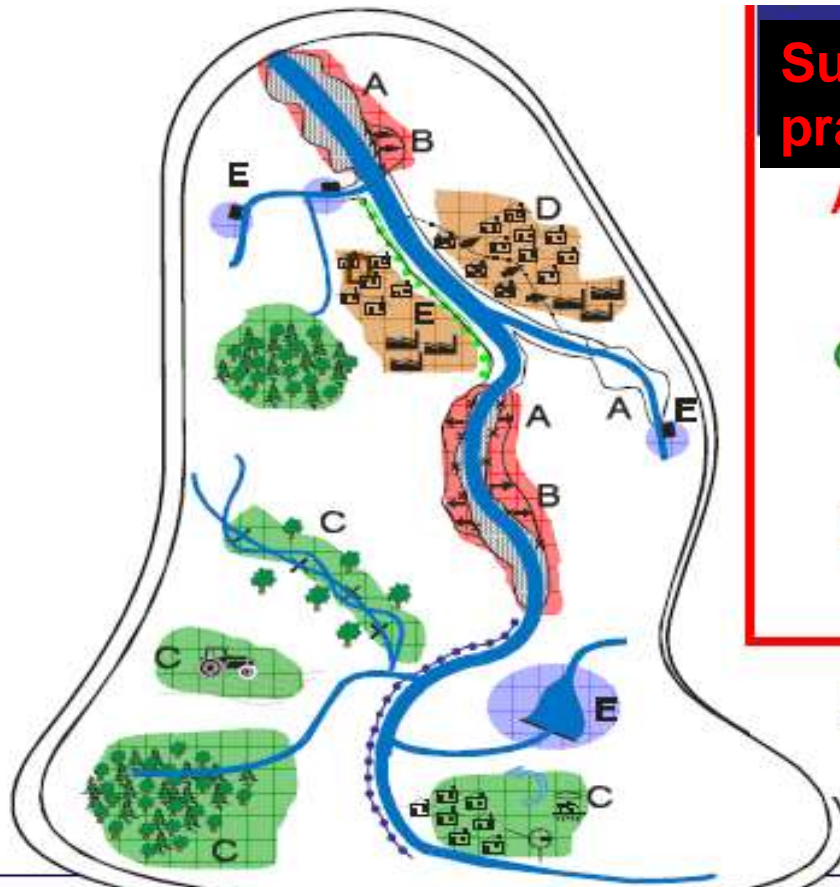
Potential of current and new measures and technologies to respond to extreme weather and climate events, enhancing the response capacity to extreme events affecting security of people and assets: emergency operations, linking early warning to effective responses



Example: Flood hazards at catchment / city levels: Integrated knowledge!



Need to involve cities, first responders and other actors from EU to local



Sustainable land use practices !

A/B Protection of flood plains and revitalisation of retention areas

C Retention of rainfall / runoff in the catchment area

D Reduction of risk / damage potential

E Technical protection measures / constructions

Requiring the establishment of links from EU to regional levels



Highly Regulated and Fragmented Scenario

EUROPEAN



MEMBER STATES



REGIONS (END-USERS)



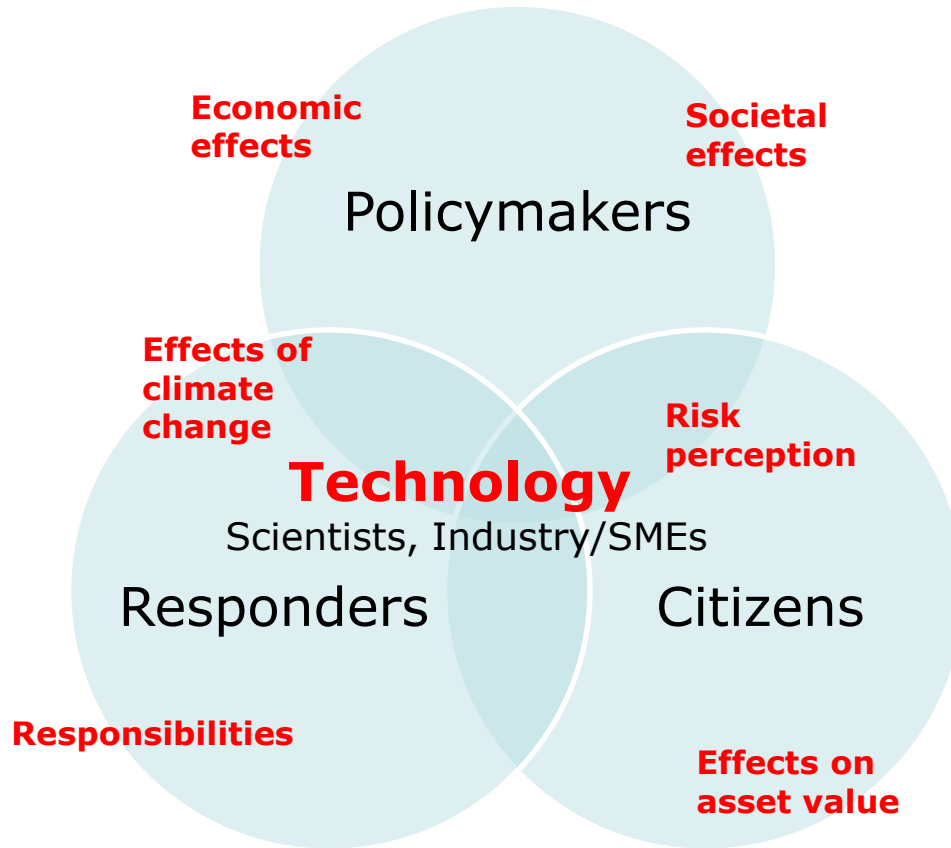
DIRECTIVES (eg. Flood directive 1007/60/EC)

National Regulations, EMS, EWS, monitoring networks, models

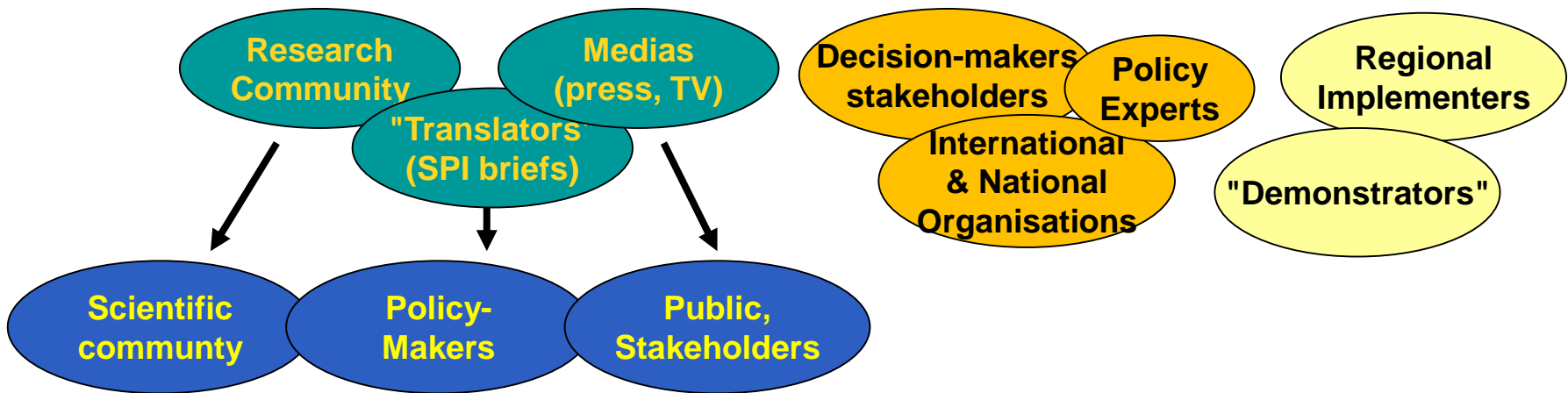
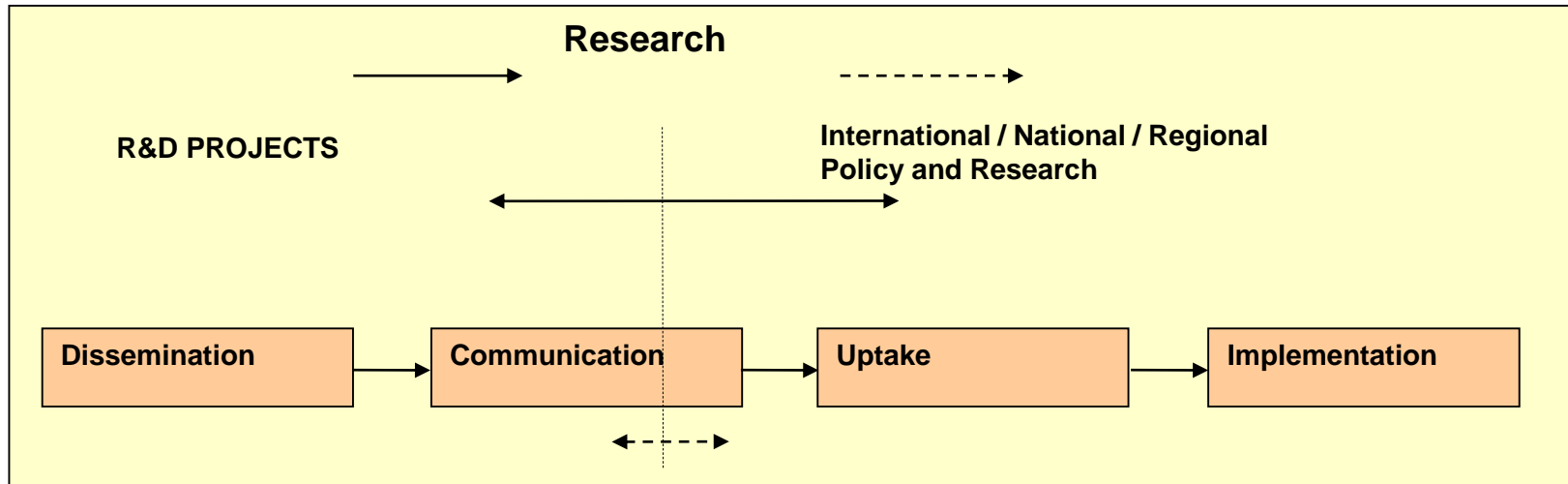
Regional Procedures, EMS, EWS, monitoring networks, models

European Emergency Management and Early Warning Systems

Needs for exchanges among different actors, awareness, education



Research Implementation?



Community of Users

**Building a "Community of Practice"
in the "Climate Extremes" area**

**RESEARCH &
INNOVATION**

INTERFACE

POLICY

LEADING PROJECTS
Joint communication,
critical mass / synergies

**STAKEHOLDER EXPERT
/ WORKING GROUPS**
Mediating role

POLICY
Expert / Working Groups

Droughts Floods
F. Fires Storms

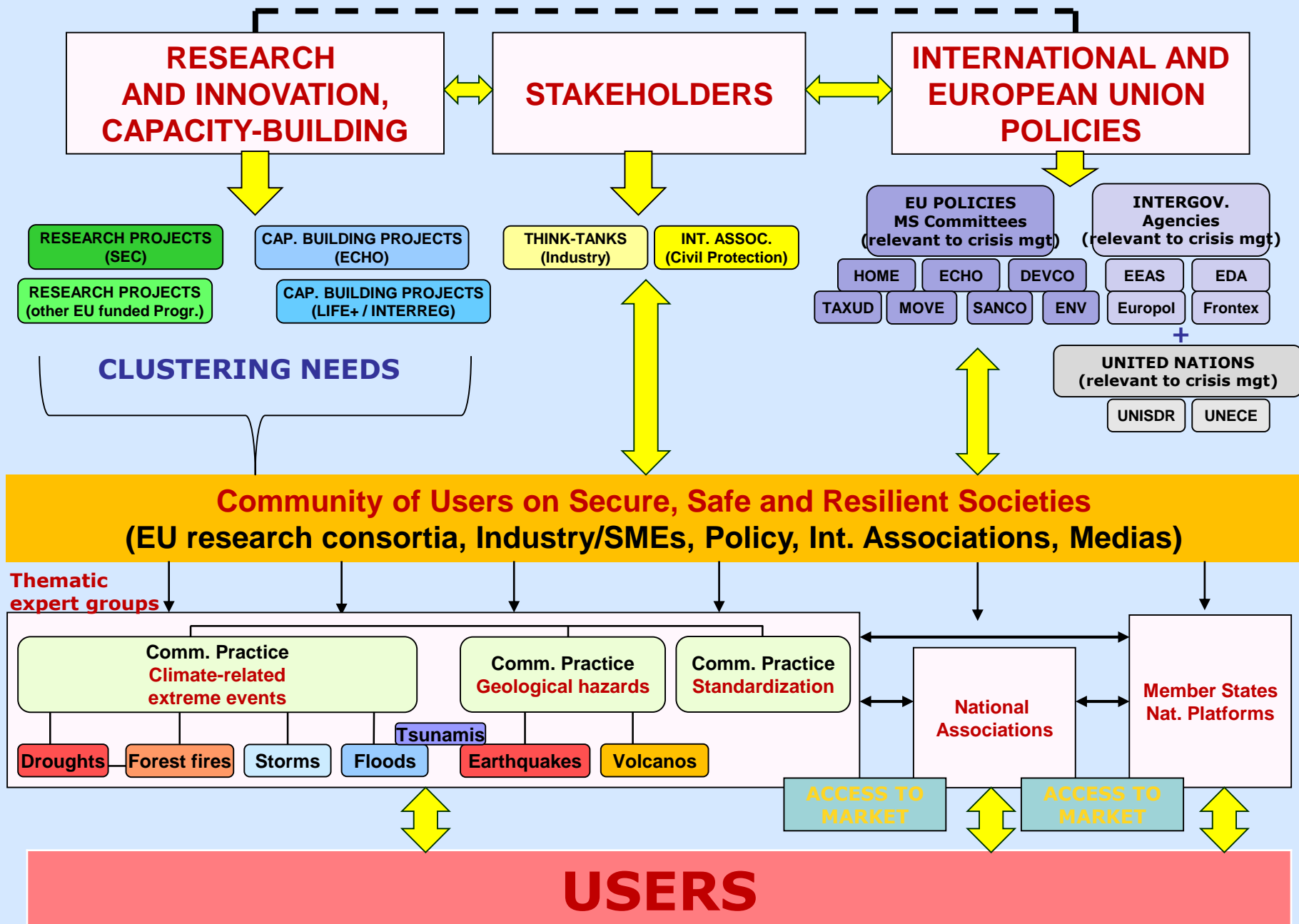
Droughts Floods
F. Fires Storms

Security (CBRN) Civil Protection
UNISDR Environment (Nat. Disasters)
UNISDR Intern. Cooperation
Environment (Seveso) UNECE

MARKET DIMENSION
Industry / SMEs

USERS: Critical Infrastructures Operators, First Responders, Regional Authorities, Research, Civil Society etc.

Resilience to Natural Hazards





Perspectives on short to long-term

- **Short-term:** On-going mapping of different actions at EU level (H2020, capacity-building, incl. Interreg projects), Project database (in close cooperation with JRC-DRMKC) with a searching capacity per theme: **ACCESSING INFORMATION**
- **Medium-term:** Stronger links among on-going and future research and capacity-building projects, policy sectors, scientists, industry/SMEs and practitioners in view of improving synergies: **REINFORCING DIALOGUE**
- **Long-term (3-5 years horizon):** Consolidation of the exchange platform to make it sustainable with support to EU Research programming and Policy implementation – Enhanced links with users, return of experiences from industry and practitioners (access to market, involvement of first responders) – **NEW WORKING RELATIONSHIPS, CONFIDENCE BUILDING**

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