Engagement of the scientific community in emergency management

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Research in emergency and crisis

- Research plays a vital role in understanding the immediate and long-term effects of crisis and the best strategies for prevention, mitigation, and recovery.
- Requires a different approach from conventional academic research.
- Train and equip researchers adequately.
Components enabling the engagement of the scientific community in emergency management

- Establishing a sustainable database for research enabling resources
- Establishing a research community collaborative network
- Developing an implementation guidance
Sustainable database for research enabling resources

- List of multi-sector entities capable of conducting research at all levels (Federal, local, academia, private sector)
- List of laboratories including all sectors
- List of experts and researchers
- List of international collaborating centers
National screening for research enabling resources

A national screening based on questionnaires, one-to-one meetings, sight visits, and workshops:

- Specialties and scope
- Expertise
- Capabilities
- Credibility-validity-reliability
- Network of the network
National screening for research enabling resources

1. Questionnaires
   39 entities

2. 37 One-to-one meetings and sight visits-REV1

3. Integration of data-REV2

4. Improving the GIS-database with Realtime data

5. Establishing a GIS-database
GIS-database for research enabling resources

Note: Dummy data is displayed to protect confidentiality
Knowledge Broker Mechanism (KBM) to enhance the scientific community engagement

- A multisector working group with knowledge and skillsets to facilitate interaction, enhance mutual understanding and exchange of knowledge.
- Bridge the gap between researchers, practitioners, decision/policy makers and research fund providers across sectors.
- Coordinate Knowledge gap mapping and plans to fill the gaps.
- Develop a research roadmap and research priorities based on local challenges
Developing a national implementation guidance

WHAT?
WHEN?
CONTEXT?
WHO?

Understanding the urgency and the problem statement
Developing a national implementation guidance - Rapid research

- Rapid understanding of the problem/challenge.
- Multi researchers' collaboration (data collection and research).
- Knowledge broker final recommendation.
- Provide interim report for rapid decision and inform expected time for the final report.

A flowchart for engaging in a rapid research
Developing a national implementation guidance - Conventional research

1. Screening challenges
   - KB

2. Analysis of challenges
   - Experts/Researchers
   - KB

3. Solutions to challenges
   - Concerned entities

- Tabletop/Simulation exercises
- Annual demand screening
- Risk assessment/workshops

- Forum
  - KB
  - Entities researchers
  - Research roadmap
    - Priorities and collaborative entities
    - Institutionalize research priorities

- Conduct research
  - Entities researchers
  - Conduct research
  - Share research outcomes
  - Document and publish

- Implement/Impact assessment of implementation/continuous development

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Summary

Engagement of the scientific community in emergency management

Outcomes:

1. Trained and equipped Researchers/experts
2. Organized Research collaboration
3. Research roadmap focused on priorities

Collaboration

Research Centers

Laboratories

Expert Pool

Implementation guide

Expert Program

Dashboard

Simulation/tabletop exercises

Annual forum

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Thank you

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