The first DRMKC flagship science report: a process that brought together 273 scientists, policymakers and practitioners

Collaboration between disaster managers and scientists in emergencies
20-21 June 2017, JRC Ispra, IT

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Joint Research Centre
the European Commission’s in-house science service

JRC Science Hub: ec.europa.eu/jrc

Ensuring the uptake of science in DRM policy formulation and implementation.

http://drmkc.jrc.ec.europa.eu/
DRMKC - Large scientific community for DRM

EC Directorates

- DEVCO: Community of Users H2020
- HOME: Community of Users H2020
- ECHO: Science for Policy
- GROW: Science for Policy
- JRC: Science for Policy
- CLIMA: Science for Policy
- REGIO: H2020
- RTD: H2020
- ENV: Public Health
- SANTE: Public Health

DRMKC

- PARTNERSHIP
  1. Hazard Scientific Partnerships
  2. Science Policy Interface
- KNOWLEDGE
  3. Pooling of Research Results
  4. Identification of research needs and gaps
- INNOVATION
  5. Networks of Laboratories
  6. Support System

Serving

- EC
- Member States
- NGOs
- UN
- Others
What?

3 Pillars

**PARTNERSHIP**
Improving science based advice through networks and partnership

**KNOWLEDGE**
Improving the use and uptake of research and operational knowledge

**INNOVATION**
Advancing technologies and capacities in disaster risk and crisis management

Where knowledge begins
Fostering EU-level disaster science networks in support to the European Response Coordination Centre (ERCC) and Member States.

Where knowledge applies
Improving the science-policy interface by providing science-based advice to policy development services and support to Member States for policy implementation.

Where knowledge meets
Pooling of information and granting access to scientific results and expertise to boost transfer of research outputs to end-users.

Where needs are identified
Disseminating knowledge, research results and information looking for identification of research needs and gaps in disaster risk and crisis management.

Where gaps are filled
Implementing a Support System for Member States providing scientific and technical advice for harmonized development.

Where innovation is tested
Developing dedicated technologies and capabilities to support different types of emergency management operations and disaster recovery processes.
What?

Objective 4

DRMKC periodic scientific reports will fill the gap in preparation for **Sendai framework for DRR** and show possibilities to strengthen society’s resilience by using science and technology.
The process ...

1. EXPECTATIONS
2. BRIDGE CONCEPT
3. ORGANIZATIONAL STRUCTURE
4. WRITING PHASE
5. REVIEW PHASE
6. PUBLISHING

2016 January

The challenge of the first one

2017 May

After 18 months

The result... SCIENCE FOR DRM 2017
Knowing better and losing less

European Commission
## Expectations at the conceptual level

<table>
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<th>Title</th>
<th>Science for DRM</th>
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<tr>
<td>Purpose</td>
<td>Reviews of the scientific solutions in DRM for policy makers, practitioners and scientists.</td>
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<tr>
<td>Focus</td>
<td>European contributions, but on topics that can be global scale</td>
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<td>Scope</td>
<td>Comprehensive in scope but selective in topics</td>
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<td>Message</td>
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</table>
Purpose

• show practical use of scientific knowledge in DRM actions in Europe

Mission of DRMKC

WHY?

FOR WHO?

For the needs of Target Readers
Experts from different fields, practitioners and policy makers

HOW?

Adjusting Level of complexity
clarify patterns within complex systems

Knowledge
(science, experts)

Users
(Policy, CP, MS, experts)
The report shall focus on European contributions, but on topics that can be global scale (e.g. global risk assessments).
Scope

- Comprehensive in scope but selective in topics

State of science

European research

Scientific solutions in DRM

Underlying scientific evidence base

Current status of DRM

Future challenges of DRM
Bridge concept

Understanding disaster risk

Communicating disaster risk

Managing disaster risk

Current status of DRM

Future challenges of DRM

HOW?

Key messages tailored to user's needs

- Conclusions for European Research
- Conclusions for UNISDR Science and Technology Roadmap
Science for DRM 2017
Knowing better and losing less

Foreword
Preface
Executive Summary

1. Current status of DRM and policy frameworks
2. Understanding disaster risk 1: Risk assessment methodologies and examples
3. Understanding disaster risk 2: Hazard related risk issues
4. Communicating disaster risk
5. Managing disaster risk
6. Future challenges of DRM
Their work is closely interrelated but still independent.

Review process

JRC

Editorial Board

Authors team

EC Advisory group

Reviewers:
- **Scientific experts** (Accuracy and completeness of scientific data)
- **Target readers** (Accessibility and relevance of information)

- Coordinating Lead Authors
- Lead Author
- Contributing Authors

Chapter level

Subchapter level

Coordinating Lead Author

Lead Author

Lead Author

Lead Author

Lead Author
Contributors

160 Authors
123 Reviewers
172 Organizations
26 Countries
79 EC Advisors
11 DGs

273 Contributors

Scientific experts
Policy makers
Practitioners
Other DRM actors
SCIENCE FOR DRM 2017:
Knowing better and losing less

Now available online
http://drmkc.jrc.ec.europa.eu/knowledge/Challenges-Sharing

Other activities of DRMKC:
• Disaster Loss Data and National Loss Databases
• Collection of Good Practices on Risk Assessment
• Risk Data Hub
• Collection and dissemination of information (website, project browser, newsletter, periodic reports, ...)
• DRMKC Support System

We value your feedback

Join us!
Become our contributor
http://drmkc.jrc.ec.europa.eu/