DRMKC Periodic Science Report
Science for DRM 2017
Knowing better and losing less

2nd Scientific Seminar of the DRMKC
Science for Policy and Operations
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Joint Research Centre
the European Commission's
in-house science service

JRC Science Hub: ec.europa.eu/jrc
DRMKC Periodic Science Report: May 2017

DRMKC objective
Workflow
Expectations
Concept scale
Organizational structure
Process oriented vs result driven
Lesson learnt
Next topic

.
What?

Action Plan – Objective 4

DRMKC Periodic Science Reports:
First in a series ....May 2017

They will be one of the most visible objectives of DRMKC. They 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 result... SCIENCE FOR DRM 2017

Knowing more and losing less
Where are we now...

- 155 Authors
- 110 Reviewers
- 160 Organizations
- 26 Countries
- 42 JRC Advisors
- 11 DGs

connecting sharing

...there has been a lot of emphasize on the process from the beginning...
**DRMKC Periodic Science Report: May 2017**

Expectations at the conceptual level

<table>
<thead>
<tr>
<th>Title</th>
<th>• Science for DRM</th>
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</thead>
<tbody>
<tr>
<td>Purpose</td>
<td>• Reviews of the scientific solutions in DRM for policy makers, practitioners and scientists.</td>
</tr>
<tr>
<td>Focus</td>
<td>• European contributions, but on topics that can be global scale</td>
</tr>
<tr>
<td>Scope</td>
<td>• Comprehensive in scope but selective in topics covering understanding, communicating and managing disaster risk</td>
</tr>
<tr>
<td>Message</td>
<td>• Knowing better and losing less</td>
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</tbody>
</table>

European Commission
Title • Science for DRM 2017

Message • Knowing better and losing less
Purpose

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

WHY?

Knowledge (science, experts)

Users (Policy, CP, MS, experts)

INTER

FACE

Mission of DRMKC

- Channeling knowledge
- Provide tools
- Define needs/gaps

FOR WHO?

Target readers

Experts from different fields, practitioners and policy makers

Level of complexity

clarify patterns within complex systems
The report shall focus on European contributions, but on topics that can be global scale (e.g. global risk assessments).
Comprehensive in scope but selective in topics

Scope

State of science

European research

Scientific solutions in DRM

Underlying scientific evidence base

Current status of DRM

Future challenges of DRM
First impression is strongly influenced by how we arrive in it...

Sendai Framework for DRR

Current status of DRM

Future challenges of DRM

Climate change adaptation

Sustainable development goals

First in series of report... ...an important part of identifying future R&D programs

2017

Key messages tailored to user’s needs
Bridge concept

Understanding risk to manage it

Understanding disaster risk

Communicating disaster risk

Managing disaster risk

Current status of DRM

Future challenges of DRM

HOW?
Science for DRM 2017
Knowing better and losing less

Scope

• Table of content at the concept level

Foreword
Preface
Executive Summary
1. Current status of DRM and policy framework
2. Understanding disaster risk 1: Risk assessment methodology and examples
3. Understanding disaster risk 2: Hazard related risk issues
4. Communicating disaster risk
5. Managing disaster risk
6. Future challenges of DRM
Organizational structure

Their work is closely interrelated but still independent.

- Coordinating Lead Authors
- Lead Author
- Contributing Authors

- Scientific experts (accuracy and completeness of scientific data)
- Target readers (accessibility and relevance of information)
Organizational structure

Chapter level

Coordinating Lead Author

Lead Author

Lead Author

Lead Author

Lead Author

Subchapter level

Contributing Author

Contributing Author

Contributing Author

Contributing Author

Contributing Author

Contributing Author

Contributing Author

Contributing Author

Contributing Author
Being process-oriented

Being more process-oriented than result driven has been the most important and difficult skill to develop.

Finding networks...
...creating new networks...
...connections...
...to share knowledge and manage it...
...and create an opportunity for knowledge to find...
its user...
...behind the users there are institutions with different missions...

...vs. results-oriented

USER is an individual who is likely to be able to use research results to make informed decisions
...result oriented

Working fluidly between *concept scale* and *detail scale* to see how each informs the others

Writing phase

**INVITING...**
- Authors’ team
- Explanatory notes
- Contributing authors

**COVERING THE FOCUS and SCOPE**
- Abstracts, keywords, outline

**COVERING THE PURPOSE**
- First draft of the subchapter
- Revised subchapter...

**KEY MESSAGES**
- Partnership
- Knowledge
- Innovation

Review phase...

Networking...
...result oriented

Working fluidly between **concept scale** and **detail scale** to see how each informs the others

**Review phase**

Scientific experts

- **Accuracy and completeness of scientific data**

Internal reviewers

Policy makers

Practitioners

**REVIEW TEMPLATES**

Accessibility and relevance of information

Networking...
Lessons learned….?

Motivation

Free access  better communication  share ideas for safer world

There must have been a desperate need in DRM
155 Authors
110 Reviewers
160 Organizations
26 Countries
42 JRC Advisors
11 DGs

Scientific experts
Policy makers
Practitioners
Other DRM actors
Have the expectations been met?
How to measure the impact?
How to go on?
European society
Defined with exposure and vulnerability

Disaster Risk Assessment

1. Disaster risk assessment is one of the most promising methods for assessing losses
2. Disaster risk assessment combines hazard, exposure, and vulnerability models
3. The partial results of risk assessment are useful and used to plan DRR measures
The topic of the next DRMKC Science Report?

Next report may be global...

... or focus on developing world...
EXECUTIVE SUMMARY

SCIENCE FOR DISASTER RISK MANAGEMENT 2017

Knowing better and losing less

Disaster Risk Management Knowledge Centre