

Disaster Risk Management Knowledge Centre - DRMKC

Enhancing the Knowledge-based support to Disaster Risk Management

A new era of risks

New challenges, new opportunities

Under the current landscape scenario, where intensification of the effects of **natural** and **technological hazards** due to climate **change** is combined with **new ways of threatening** our societies, the establishment of strong alliances to reinforce our capacities to **better protect our future** has become a must.

Faced with the risk of progressively severe and frequent natural and man-made disasters (technological and malicious), policy-makers and risk managers increasingly rely on the wealth of **existing knowledge** at all stages of the Disaster Risk Management (DRM) cycle – **adaptation; mitigation; prevention; preparedness; response; recovery and reconstruction**.

A growing number of Commission Services are collaborating to reinforce the links between the different Disaster Risk Reduction (DRR) and **DRM** related policies to ensure the **maximised impact** of an optimised implementation of DRR and DRM policies.

While complexity and uncertainty are growing and a lot of developments cannot be predicted as such, a stronger anticipation culture would strengthen EU preparedness and resilience. Understanding disaster **risk** becomes essential to enhance resilience and contribute to **smart, sustainable and inclusive growth**.

3 key pillars that structured DRMKC



Partnership:

Networks are fragmented and it becomes imperative to foster the transfer of knowledge and technologies across scientific networks specialised on different hazards and threats – **where knowledge begins**- to be able to strengthen the science-policy interface by providing integrated support to the policy cycle – **where knowledge applies**.



Knowledge:

Scientific research results along with operational knowledge gained from lessons learned, exercises and trainings need to be better exploited. Pooling of information and granting access to scientific results and expertise to boost transfer of research outputs to end-users – **where knowledge meets** - is the first step to facilitate the difficult task of making sense of existing knowledge and to identify existing gaps – **where needs are identified**.



Innovation:

There is the imperious necessity for a common space where continuous testing, training, benchmarking, validation and promotion of more and more focused innovation in all phases of the DRM cycle will take place. Industry and the scientific community play an essential role in **developing innovative methods, tools and technological solutions** for the mitigation of disasters (adaptation and prevention) and their impacts (preparedness and response).

Commission Knowledge Centres

Together we are stronger

The Commission officially endorsed the concept of Knowledge Centres in its **Communication on Data, Information and Knowledge Management** (C(2016) 6626)). They bring together experts and knowledge from different locations inside and outside the Commission, creating a new instrument to develop and pursue informed and **evidence-based EU policies**. The development of **Knowledge Centres** has become one of the key elements of the JRC 2030 strategy.

The **Disaster Risk Management Knowledge Centre** (DRMKC) provides a networked approach to the science-policy interface in DRM across the Commission, EU Member States and the DRM community within and beyond the EU.

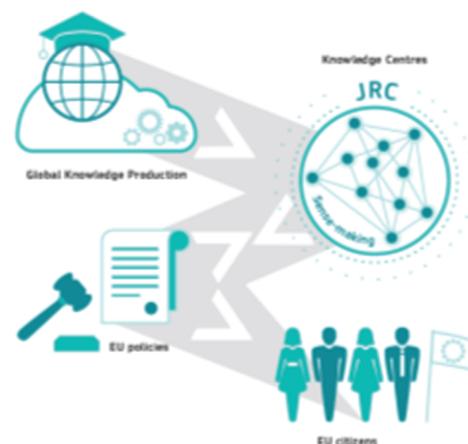


Figure 1 – Extracted from JRC Strategy 2030



DRMKC products

Developing collective knowledge and innovative tools

Supported and empowered by the union of well-experienced scientific networks, the DRMKC offers a collaborative space with a **multidisciplinary approach** to the complexity of the DRM by proposing concrete collective goals to be reached in support the development of a more sustainable future.

The DRMKC facilitates information and knowledge sharing, while enhancing the connection between science, operational activities and policy needs. The **DRMKC Newsletters** are produced on quarterly basis to help disseminating information across sectors and networks.

Integrated DRM

When the whole is greater than the sum of its parts

The driving force of the Disaster Risk Management Knowledge Centre is **collaboration**. Relying on the expertise of the wide DRM community, the DRMKC proposes and coordinates actions to consolidate **collective knowledge** across scientific disciplines and economic sectors, while reinforces the existing links across DRM and DRR related policies.

While knowledge is abundant, gaps do, of course, still exist. The DRMKC contributes to map these **gaps** fostering in that way a more focused and **needs-driven development**.

Risk Data Hub

The DRMKC **Risk Data Hub** is a multi-hazard Geo-portal aiming at providing a common tool for scientists, practitioners and policy-makers to support bridging **science and policy, pass and future, local/National/European and Global scales** in the frame of DRM. It is conceived to be co-developed by scientists and end-users looking for crystallising the science-policy interface.

Science for DRM

The **Science for DRM** series has mobilised the whole DRM community with the common aim of summarising the state-of-art, to learn from the past experiences and to contribute to the definition of the new challenges. The Science for DRM is notably contributing to enhance **risk awareness** and to the dissemination of information on DRM policies and science.

INFORM GRI

The Index for Risk Management (**INFORM GRI**) provides a quantitative assessment of the risk of humanitarian crises in a multi-hazard context with a major focus on developing countries.

Gaps Explorer

The DRMKC **Gaps Explorer** offers science-based knowledge and targeted recommendations, tailored to different stakeholder profiles – scientists, practitioners and policy-makers, regarding the way forward.

ENCML

The European Crisis Management Laboratory (**ECML**) is a permanent infrastructure hosted by the JRC that acts as a R&D and test facility for ICT focused solutions. ECML integrates devices, applications, and crisis management related information sources to support crisis management needs, such as threats analysis, common situation awareness, training and collaborative decision making.

Projects Explorer

The DRMKC **Projects Explorer** is continuously updated with information regarding research projects and the institutions involved. Nowadays there are around 1800 research projects and 8000 institutions mapped. It is an essential tool to discover who knows what.

