

#### Disaster Risk Management Knowledge Centre - DRMKC

Enhancing the Knowledge-based support to Disaster Risk Management



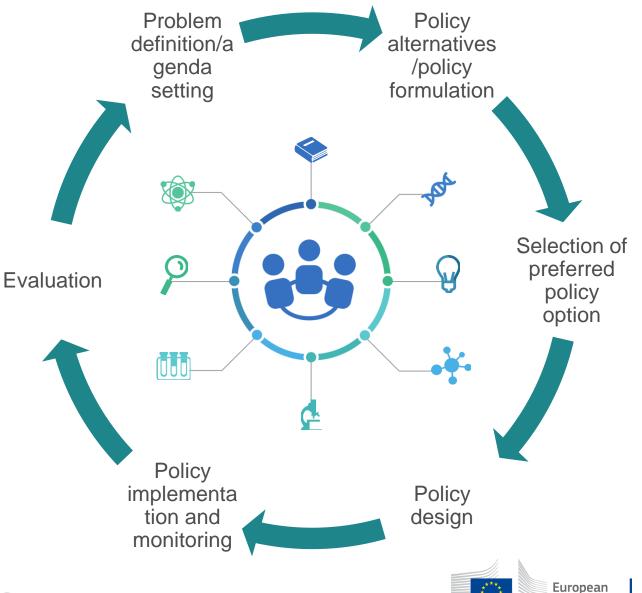
JRC.E1 Disaster Risk Management

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

Joint Research Centre

# JRC Mission

As the science and knowledge service of the European Commission our mission is to support EU policies with independent evidence throughout the whole policy cycle.



Commission

The European Commission's science and knowledge service Joint Research Centre







in Joint Research Centre

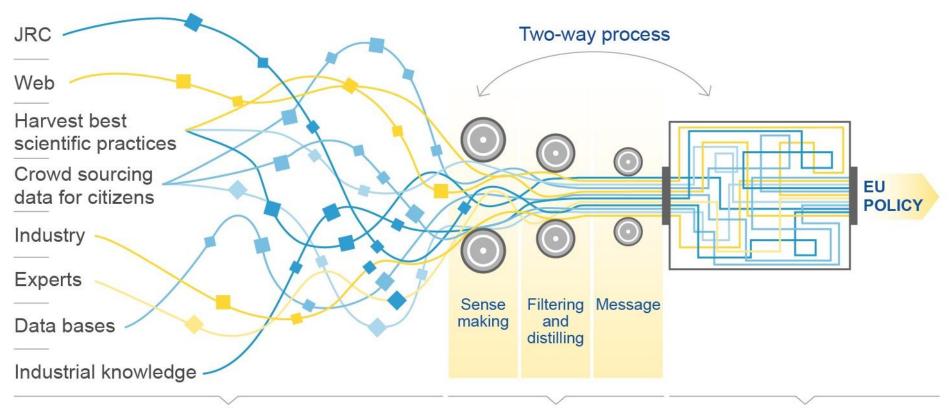






## JRC Strategy 2030:

#### Creating Knowledge Centres to deal with the information overload



ABUNDANCE OF KNOWLEDGE SCIENTIFIC COMPLEXITY

JRC KNOWLEDGE MANAGEMENT

POLICY MAKING
COMPLEX PROCESS

# 20 knowledge Services:

- DRMKC
- Biodiversity
- Territorial policy
- Migration and demography
- Bio economy
- Food fraud and quality
- Food and nutrition security
- Earth observation
- Cancer
- Al watch



# Main policy areas supported by DRMKC

Strategy & Mission on

Climate

Adaptation

Sendai Framework for Disaster Risk Reduction 2015 - 2030

> Civil Protection Mechanism: Article 6 & 10 – Union Resilience Goals

UNION CIVIL PROTECTION **KNOWLEDGE NETWORK** 

EU foreign policy agenda



**SCIENCE** for

**D**isaster **R**isk Management

> **Humanitarian** Aid Regulation





Global

GCRI

Conflict Risk Index

# Evolution of DRMKC - triggered by broader policy context

**New Union Civil Protection** Improve the knowledge base on disaster risks Mechanism Decision No 1313/2013, Art. 5.1(a) DRM KC launched on 30th Global agreements on DRR and Climate 2015 SFDRR, SDGs, Paris September Change **Agreement** 2015 Creating rescEU and Union Civil **Revision of UCPM** 2019 Decision (EU) 2019/420 **Protection Knowledge Network** Cross-sectoral, all-hazard, transboundary DRM May **Revision of UCPM** based on **scenario planning** and **disaster** 2021 Regulation (EU) 2021/836 resilience goals at Union level "The **Science pillar** should build on and integrate Nov **Establishment** of the **DRM KC** existing scientific structures and networks ...in particular **Union Civil Protection** 2021 2. Culture, Creativity and **Mechanism** the **Disaster Risk Management Knowledge** Decision ((EU) 2021/1956) Centre...as well as relevant Horizon Europe

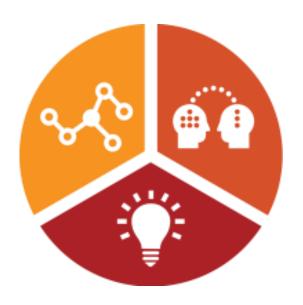
**programmes**...in the area of disaster risk management."

Resources, Agriculture and

Joint Research Centre

# The pillars of DRMKC

https://drmkc.jrc.ec.europa.eu/









#### **PARTNERSHIP**

Where knowledge begins Where knowledge applies

#### **KNOWLEDGE**

Where knowledge meets
Where needs are identified

#### INNOVATION

Where gaps are filled
Where innovation is tested

- DRM networks
- DRMKC Annual Seminars
- DRMKC Community of Practice
- Knowledge
   Network of UCP

- Gaps Explorer
- Project Explorer
- DRMKC Newsletter
- Science for DRM series of reports
- Recommendation s for NRA

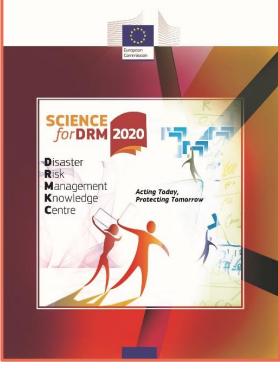
- INFORM
- Risk Data Hub
- EIOS epidemic intelligence from open sources
- Global Conflict Risk index

#### **DRMKC - Knowledge pillar**

#### Improving collective knowledge to make better decisions

#### **Science for DRM reports**

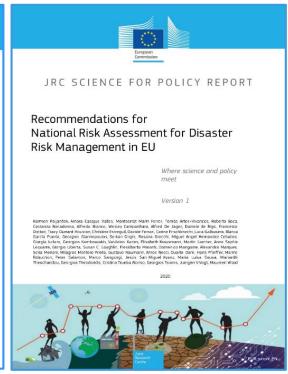




Provide reviews of the scientific solutions in DRM for well-informed decision makers, practitioner and citizens

#### **Recommendations for National Risk Assessments**





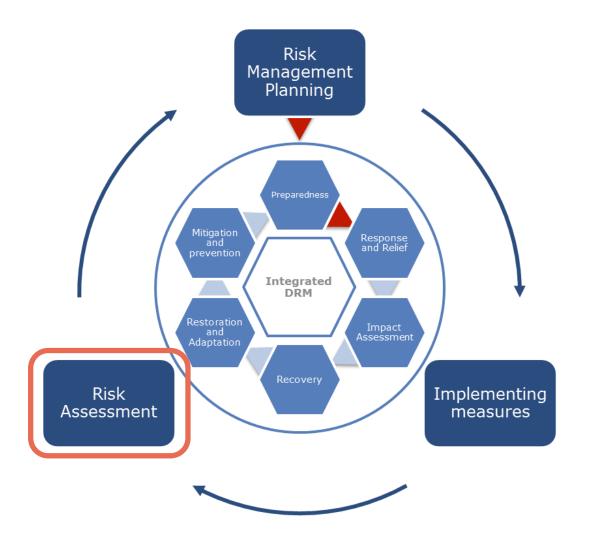
Scientific support to Member States in NRA process



### National Risk Assessment is at the heart of the **policy cycle**

# National risk Assessment is providing evidence

for a tough decision making process at the national level with many stakeholders involved



The goal is to implement disaster risk reduction strategies which should result in less disasters and/or disasters with less impacts and increase of overall resilience.



# Member states are asked to make available to the Commission a summary of national risk assessments every 3 years.

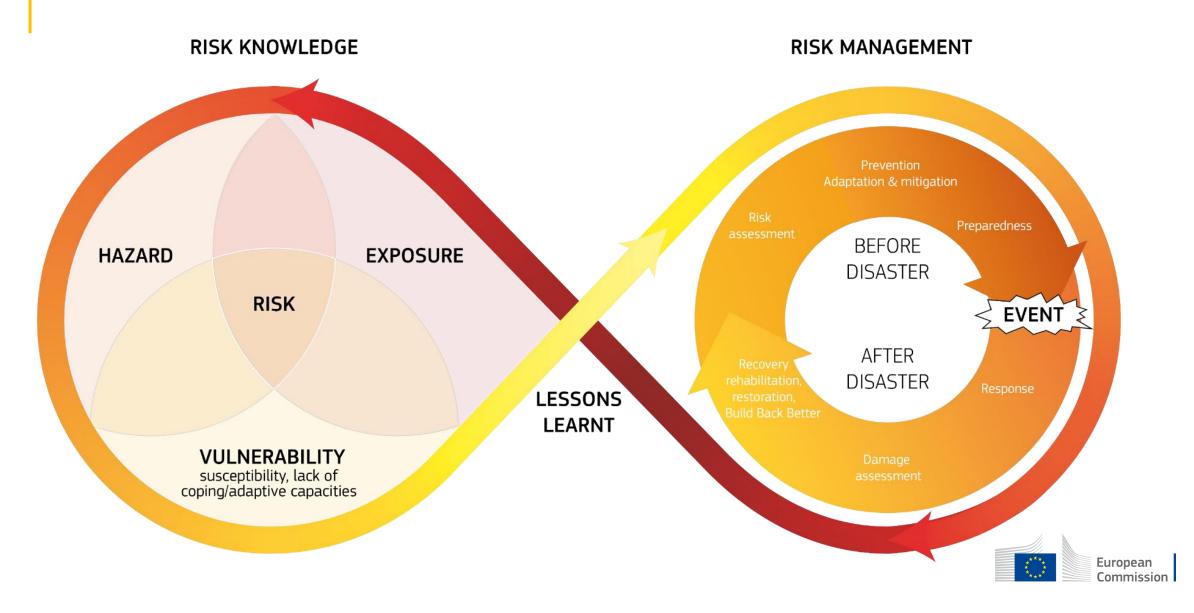


Identified GAP?





# Understanding disaster risk



# DRMKC - Innovation pillar INFORM SHARING CRISIS ANALYSIS

Suite of quantitative, analytical products to support decision-making at different phases of the humanitarian crisis management

cycle at global level

#### INFORM Risk

APPLICATION

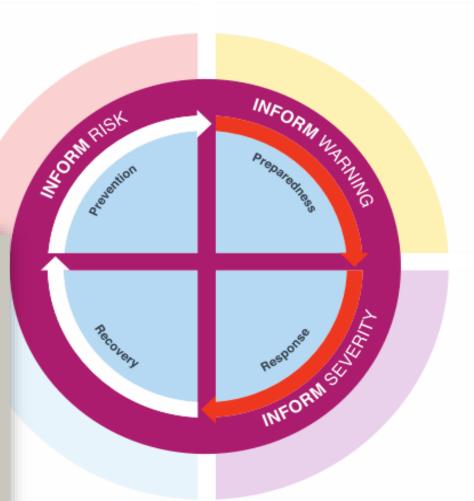
Development, risk reduction, crisis prevention, preparedness

ANALYSIS

Generalised risk of a crisis based on structural conditions

STATUS Operational

# RANKING 0-10 SCORE RISK MAP COUNTRY PROFILES SÜBNATIONAL



#### INFORM Warning

APPLICATION Preparedness, early warning, early action

Indicatons of elevated risk, emerging crisis or crisis trigger

In development

#### INFORM Severity

Early action, crisis response

ANALYSIS Severity of an existing crisis

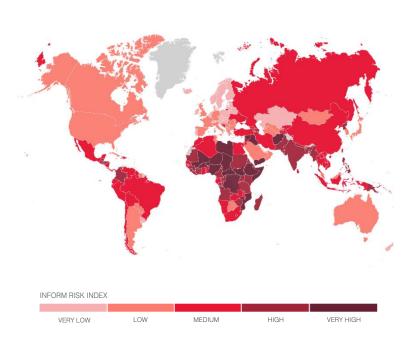
> STATUS Operational



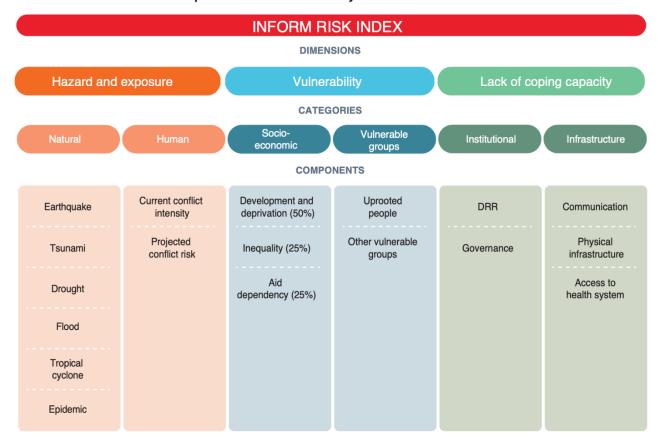


# **INFORMRISK**

Risk of a humanitarian crisis that exceeds national capacity to respond (next 3-5 years)



#### Components of risk covered by the INFORM Risk Index





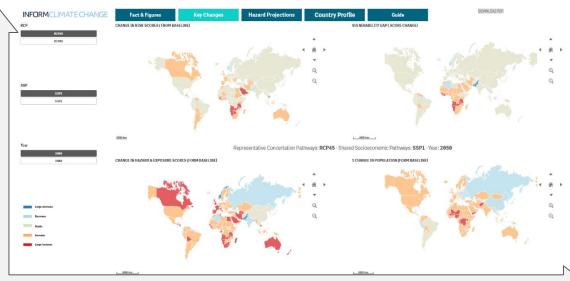


#### Identifying opportunities for future sustainable development

#### **INFORMCLIMATE CHANGE TOOL**

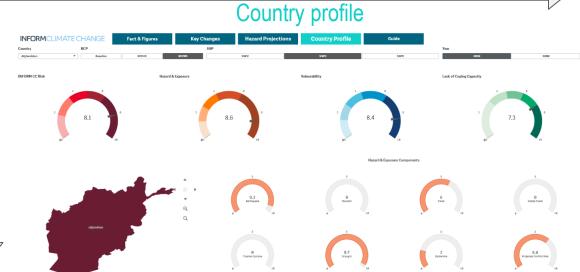
## INFORM SHARING CRISIS ANALYSIS





Key changes









#### **DRMKC - Innovation pillar**

https://drmkc.jrc.ec.europa.eu/risk-data-hub#/



# Risk Data Hub main modules

Supporting the EU Climate Change Adaptation Strategy and the EU effort in achieving the priorities of the Sendai Framework for Disaster risk Reduction

Risk Data Hub is a GIS web platform of European wide risk data and methodologies for Disaster Risk Assessment.





#### **Risk Analysis**

Risk analysis in Map Viewer



#### Disaster Loss Data

Impacts from past events in Map Viewer



#### Facts and Figures

Cross-hazard comparative view of both past and future impacts





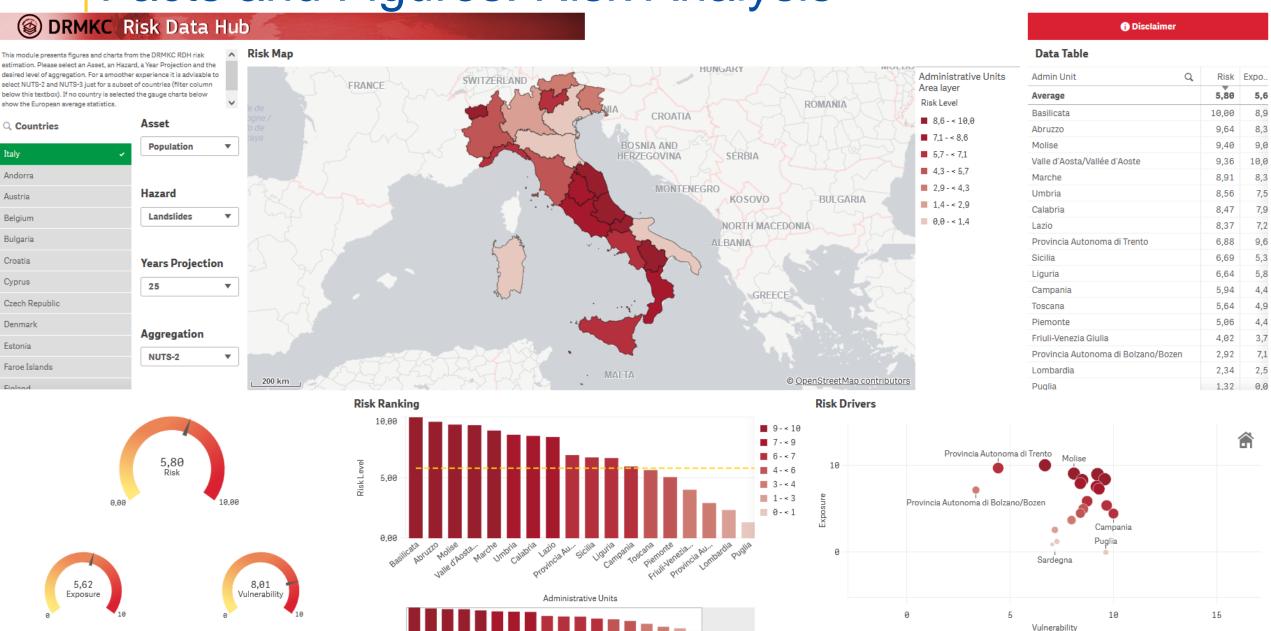
#### Learning Space

Documentation and methodological notes on





# Facts and Figures: Risk Analysis



# Facts and Figures: Disaster Loss Data

