

DRMKC lecture: EU DRM framework from CP/operational perspective

Disaster Risk Management Training online series 2022

09 November 2022

Ainara Casajus Valles (ECHO.A3) Marzia Santini (JRC.E1)

Slido to get started

- Who are we?
- What do we want to know
- What we will speak about today





Union Civil Protection Mechanism (EUCPM) What? Why? Who? How?

Introduction to the DRM policy framework

Ainara Casajus Valles, DG ECHO



European Civil Protection & Humanitarian Aid Operations

...encourage cooperation between Member States for preventing and protecting against natural or man-made disasters.

(Lisbon Treaty, Article 196)

To provide...assistance and relief and protection for people in third countries... victims of natural or man-made disasters... (Lisbon Treaty, Article 214)





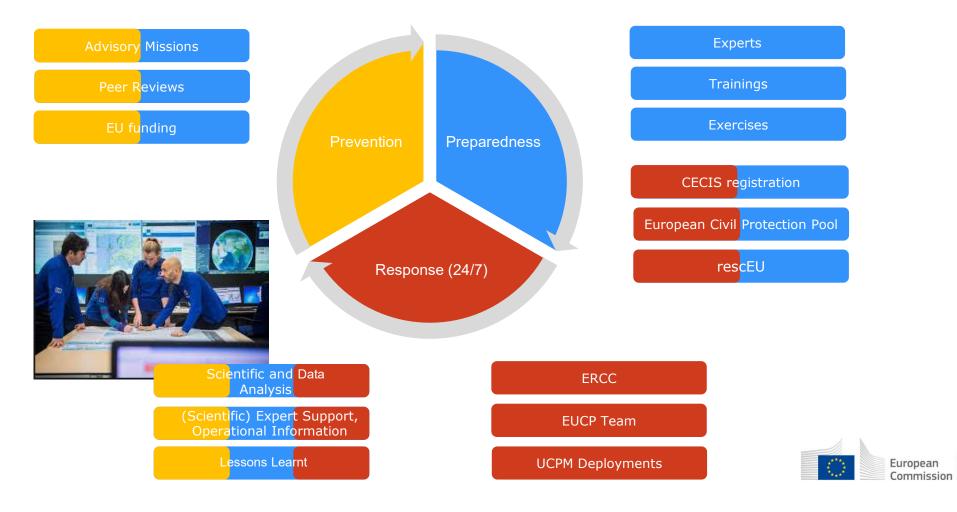
EU Civil Protection Mechanism

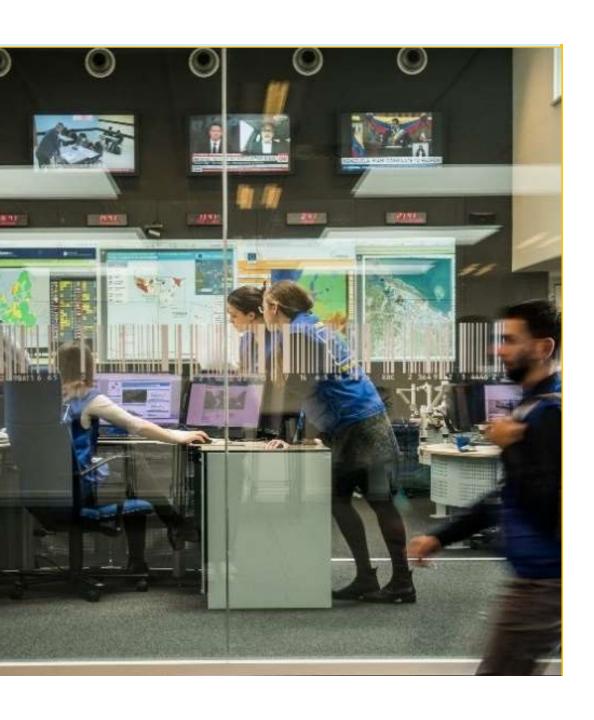
To strengthen the cooperation between the Union and the Member States and to facilitate coordination in the field of civil protection in order to improve the effectiveness of systems for preventing, preparing for and responding to natural and man-made disasters.





A comprehensive emergency management cycle





Emergency Response Coordination Centre (ERCC)

The ERCC, launched in May 2013, improves coordination between civil protection and humanitarian aid operations and maintains a direct link to authorities and organisations in EU Member States enabling real-time exchange of information.



Monitors disasters around the globe



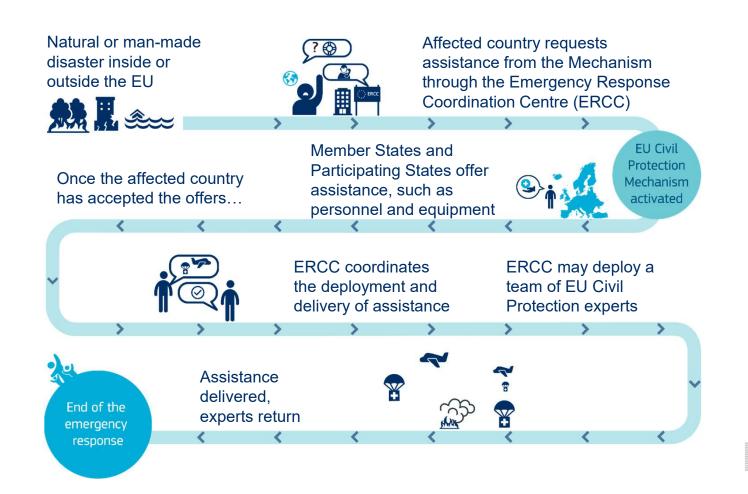
Provides real-time information



Coordinates joint European response operations



How does the EU Civil Protection Mechanism respond to emergencies?



European Commission

Since its creation in 2001 until 2021, the

EU Civil Protection Mechanism

has been activated for more than

500 emergencies























EU Civil Protection Mechanism





How does the EU Civil Protection Mechanism respond to emergencies?

- In-kind assistance.
- European Civil Protection
 Pool
- rescEU



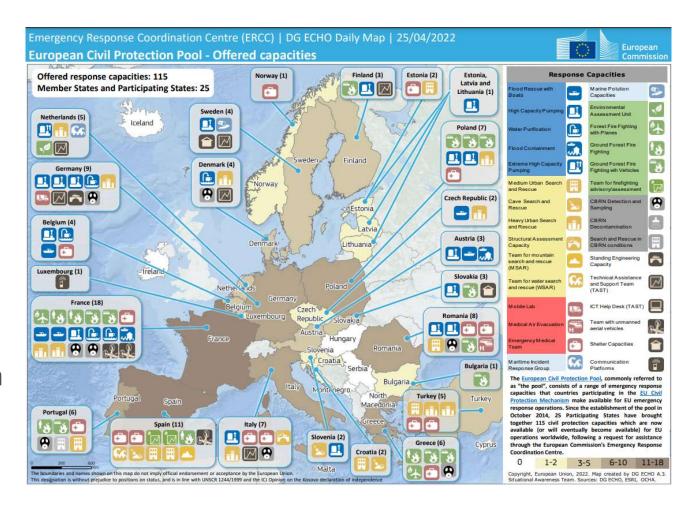
All MS and 4 PS have supported Ukraine so far:

- > 72 000 tonnes of assistance.
- > 1 400 patients transported to hospitals in Europe59 experts and 19 liaison officers have been deployed



How does the EU Civil Protection Mechanism respond to emergencies?

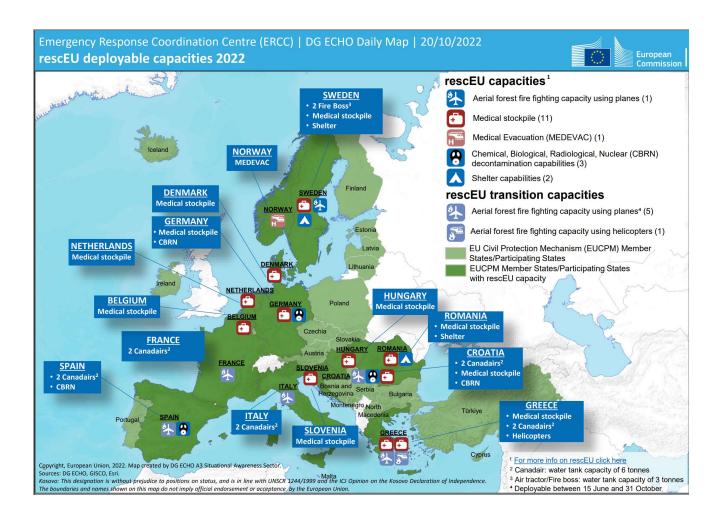
- In-kind assistance.
- European Civil Protection
 Pool
- rescEU





How does the EU Civil Protection Mechanism respond to emergencies?

- In-kind assistance.
- European Civil Protection
 Pool
- rescEU





Preparedness and prevention

Union Civil Protection Knowledge Network

Knowledge Network Capacity Development pillar



Trainings



Exercises



Exchange of experts



Questions?





The European Commission's Disaster Risk Management Knowledge Centre (DRMKC)

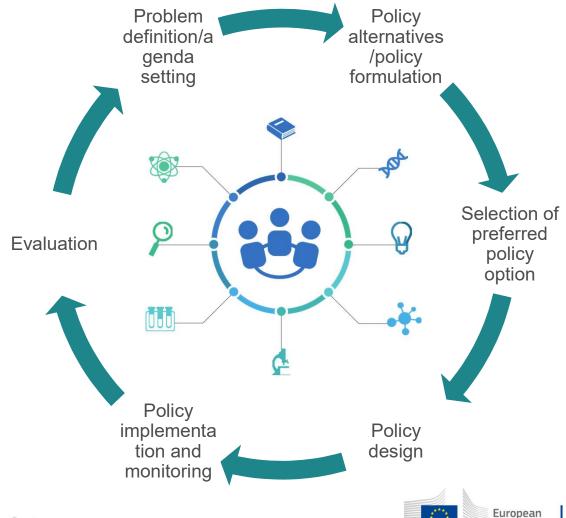
where DRM knowledge is produced and organized

Marzia Santini, DG JRC



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











European Commission Knowledge Centres - Knowledge brokers for robust policies

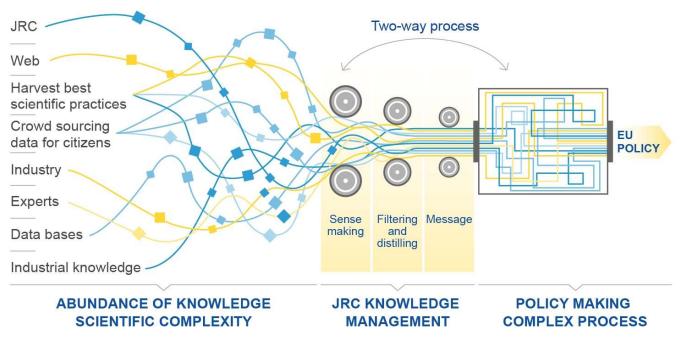
Specific knowledge and competence centres will be set up for issues that fall under the policy priorities of the Commission [...] The relevant DGs will form thematic networks to underpin the work of the knowledge centres.





The knowledge center's concept

dealing with the information overload by policy topic



10 knowledge centres for **10 policy** areas:

- Disaster Risk Management DRMKC
- Biodiversity
- Territorial policy
- Migration and demography
- Bio economy
- Food fraud and quality
- Food and nutrition security
- Earth observation
- Cancer
- Interpretation

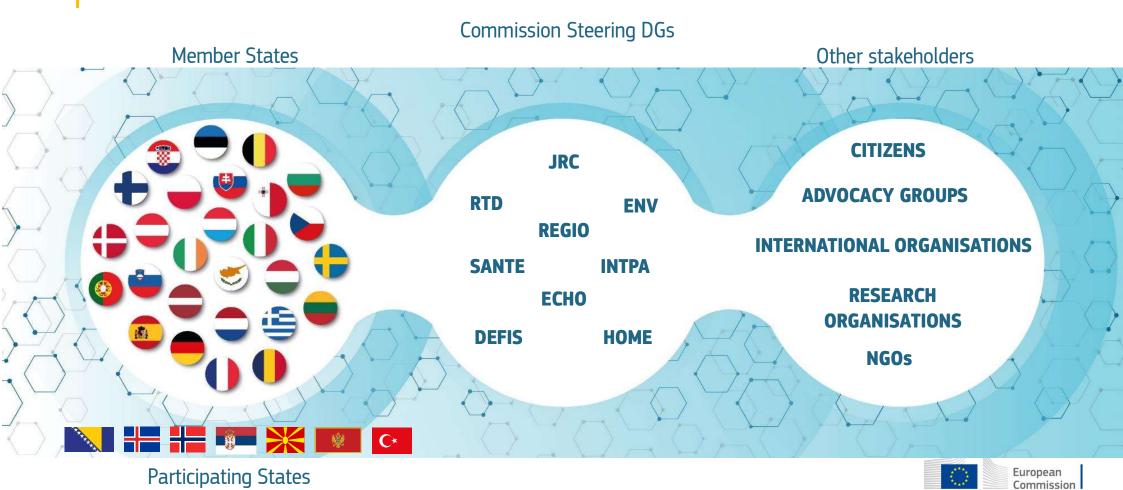


Knowledge Centres - activities





Stakeholders & Users



Knowledge for policy website (K4P)

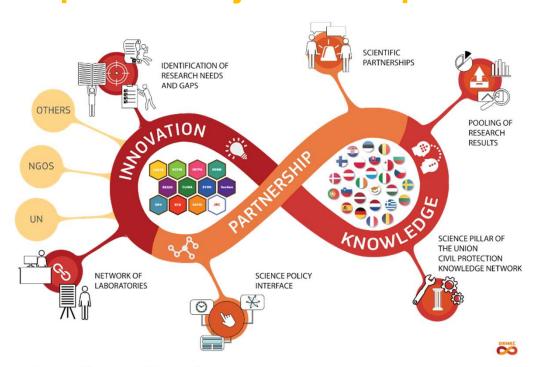
https://knowledge4policy.ec.europa.eu/ Here you find more info!





Disaster Risk Management Knowledge Centre – DRMKC https://drmkc.jrc.ec.europa.eu/







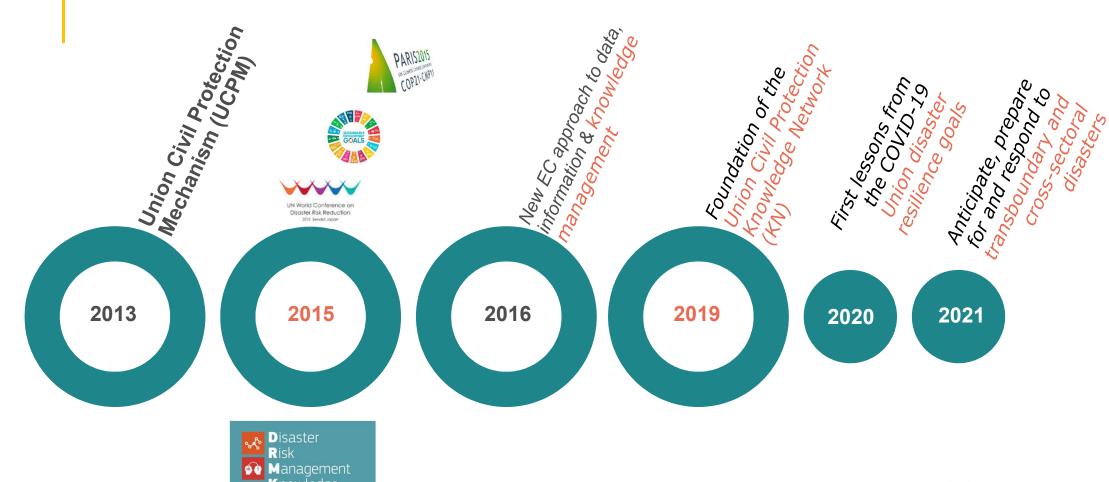
- DRM Community of Practice with 12 DGs represented
- 5 annual seminars, <u>6th seminar on 22-23</u>
 <u>Nov this year!</u>
- Network of scientists in the Science 4 DRM flagship reports
- DRMKC website & Newsletters

Supports policymaking by:

- Gathering ECs services, European countries, community (partnership)
- Transferring knowledge across sectors, integrating and consolidating it (knowledge)
- Co-developing and providing innovative solutions for existing needs (innovation)
- Improve coordination in managing disaster risk



A simplified timeline of our policy domain (DRM)





We work for all phases of the DRM cycle & we inform all phases of the POLICY cycle







1. To foresee current and future risks

2. To build the knowledge base

3. To implement systems for DRM action, in the short as well in the midlong term





Early Warning & Monitoring





Global Disaster Alert and Coordination System

Knowledge Centre for Disaster Risk Management

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

- Developing collective knowledge to support innovative policies
- Projects, DRM networks, services, repositories, new knowledge, learning corner, taxonomy
- News, events, documents
- "Get involved" section!



Global Conflict Risk Index (GCRI)

The Global Conflict Risk Index (GCRI) expresses the statistical risk of violent conflict in a given country in the coming 1-4 years and is exclusively based on quantitative indicators from open sources.



INFORM

INFORM is a multi-stakeholder forum for developing shared, quantitative analysis relevant to humanitarian crises and disasters INFORM includes organisations from across the multilateral system, including the humanitarian and development sector, donors, and technical partners.



Risk Data Hub

The DRIMKC Risk Data Hub is a Geo portal providing access to data and methods for Risk and Impact assessment in a multi-hazard context. Authorised users can create their private "User corner" to upload their own data to run customised assessments.



Scientific Output

The scientific publications based on a selection of papers, reports and policy briefs covering different research domains and policy areas produced by the scientists of the Joint Research Centre.



Learning corn

Understanding and properly applying scientific knowledge to DRM is essential for solid and effective outcomes in managing risks. In this section a collection of learning opportunities to increase your know-how in the very many different areas of DRM.



Epidemic Intelligence from Open Source (EIOS)

The DRMKC provides support to the Epidemic Intelligence from Open Sources (EIOS) initiative, which brings together several public health stakeholders around the globe to create a unified, multidisciplinary approach to early detection, assessment and communication of public health risk using publicly available information.



Gaps Explorer

As a contribution to the common effort of enhancing research results' exploitation while defining the way forward, the Gaps Explorer provides targeted recommendations, tailored to different stakeholider profiles - Policy-Makers, Practitioners and Scientists - based on thematic reviews.



Project Explor

The DRMKC Projects Explorer is continuously updated with information regarding research projects and institutions. It is an essential tool to discover who knows what



Science for disaster risk management 2020: acting today, protecting tomorrow

The second of its series represents a collaborative effort on disaster risk, coming from different sectors and disciplines to present the consequences of disasters on various assets at risk.



Knowledge Centre for Disaster Risk Management

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











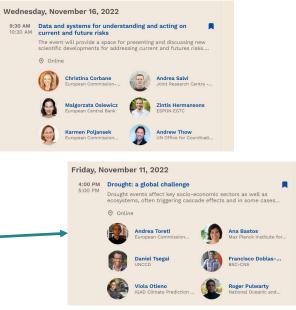
Read <u>here</u> how JRC science helps to cut emissions



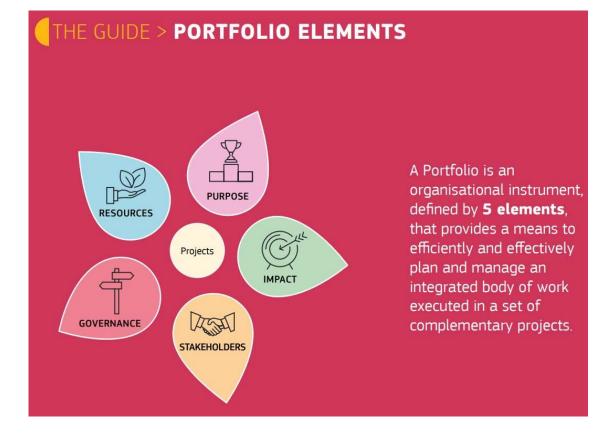


overview of the recent research and activities of the European Commission that directly or indirectly contribute to the availability of risk

information/assessments and to the delivery of early warnings for everyone.



JRC work programme 2023-2024



JRC PORTFOLIOS 2023 - 2024

- 1. Shaping green transitions for a sustainable Europe
- 2. Sustainable, clean, innovative and competitive energy solutions
- 3. Hydrogen and other decarbonised gases
- 4. Safety of nuclear technology in support to the transition towards climate neutrality
- 5. Small modular reactors
- 6. Decarbonised, smart and safe mobility
- 7. Cities and buildings for better lives
- 8. Pathways to climate neutrality through low carbon energy and land use management
- 9. Zero pollution for planetary health integrated responses
- 10. Healthy biodiversity and natural capital accounting
- 11. Transition to sustainable food systems in a European and global context
- 12. Sustainable materials and products for a circular and resilient Europe
- 13. Industrial transformations for sustainability, competitiveness and open strategic autonomy
- 14. Monitoring and shaping the digital transition
- 15. Trustworthy AI for a fair and democratic Europe
- 16. Cybersecurity of society and industry
- 17. Exploiting data as a strategic resource for science and policy
- 18. Observing the Earth for policy
- 19. Galileo next generation and secure connectivity
- 20. Towards an inclusive and resilient society: social justice and fair twin transitions
- 21. Education, skills and employment for a fair twin transition
- 22. Economic governance and structural reforms
- 23. Territorial intelligence for EU policies
- 24. Science for the Global Gateway and the international Green Deal
- 25. Enhanced situational awareness for crisis management
- 26. Understanding and acting on the risks of the future
- 27. Better preparedness and response to health crisis
- 28. Innovation in life and health sciences
- 29. Tackling cancer and non-communicable diseases
- 30. Science for security
- 31. Nuclear compliance assurance
- 32. Challenges and opportunities of population dynamics and migration for stronger Europe in the world
- 33. Innovative policymaking in a complex world: science, foresight and evaluation for policymaking



25. Enhanced situational awareness for crises



Allow Europe to respond quickly and effectively to major cross-society crises

Improve resilience through better preparedness

How?

Systemic, timely and integrated information on impacts and response options

Better observations, models analyses and systems

Improved Early Warning and real-time integrated situational awareness



Portfolio activities

Copernicus Emergency Management Service

Floods
Wildfires
Droughts and heatwaves
On Demand Mapping

European Crisis Management Laboratory

Information management
Mapping
Crisis room technology
Data

Hazard >> Impact



Crisis Management

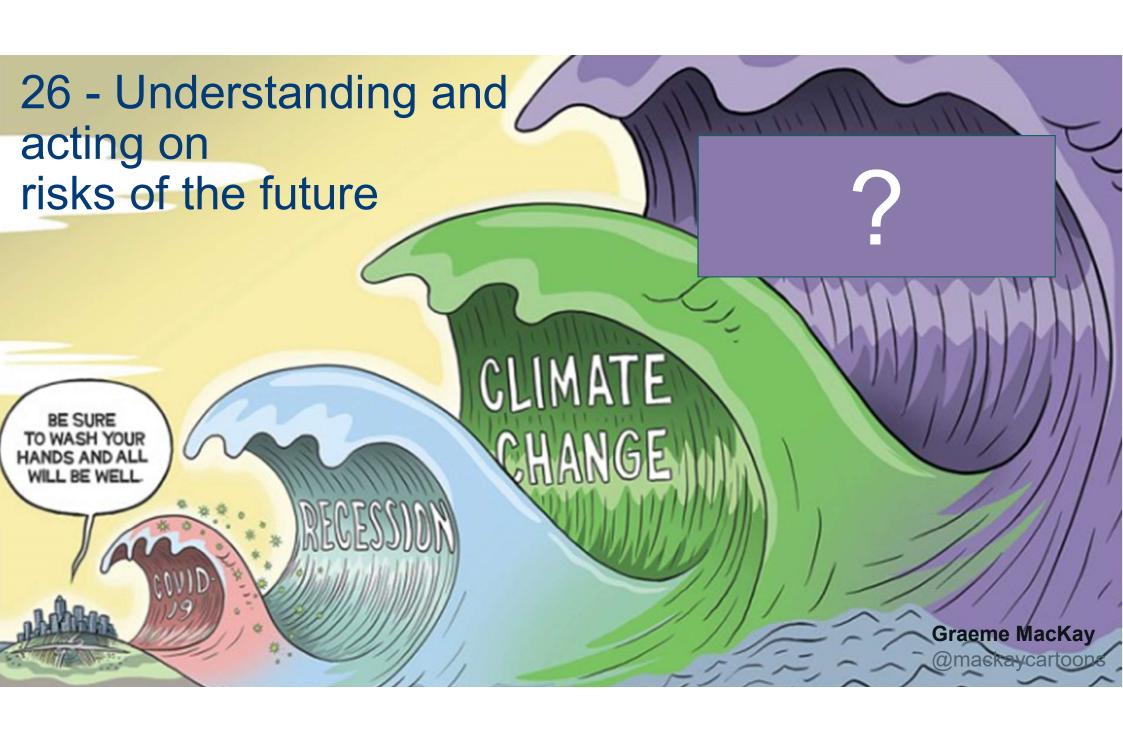
Systems for anticipating crises

GDACSinform, INFORM
Severity (humanitarian),
GCRI, CEWS (conflict),
EIOS (health threats),
ASAP (food security),
ECURIE, EURDEPemm
(nuclear)

Political & social intelligence

Media monitoring / analytics
Social media
Disinformation





Portfolio activities

Climate risk modelling

- EU Climate Risk Assessment
- Global <u>drought</u>, <u>flood</u> and <u>wildfire</u> risk products
 - Adaptation of built environment

Risk and finance

- No action without money
- Financial and economic exposure

Scenarios and data



Analysis and data

- Human settlements
- Conflict risk
- Humanitarian risk
- Energy risk
- Climate, migration, conflict nexus

Mitigation

- <u>Disaster Risk Management</u>
 <u>Knowledge Centre</u> + networks
- Foresight scenarios
- Policy, regulatory and technical measures

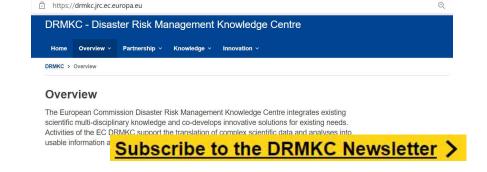
Supporting risk reduction



How to engage with DRMKC



- ➤ To know more:
 https://drmkc.jrc.ec.europa.eu
- ➤ <u>To become a contributor</u> of DRMKC
- Current opportunities in DRM
- ➤ To <u>brainstorm together</u> every year
- ➤ To contact us for specific requests: <u>EC-drmkc@ec.europa.eu</u>



Become our Contributor

All current and new users will be given update rights to publicise and share their work within the DRMKC (publishing News, Events and sharing Documents).

Click here to:

- Login if you are already user of DRMKC
- Register if you are a new user

We look forward to hearing from you.

- News
- Events
- Documents



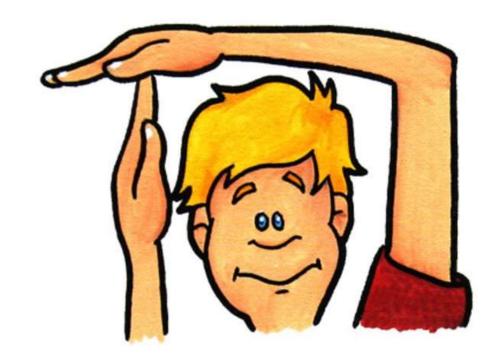


Questions?





10 minutes break!





The Union Civil Protection Knowledge Network (UCPKN)

where the DRM network is boosted

Marzia Santini, DG JRC



UCPKN aim & objectives

https://civil-protection-knowledge-network.europa.eu/

UNION CIVIL PROTECTION KNOWLEDGE NETWORK

First introduced, as a concept, in the 2019 revision of the Union Civil Protection Mechanism (UCPM) legislation, to build up the EU's overall ability and capacity to deal with disasters



Optimize,
systematize
existing
cooperations





Bring together civil protection and disaster risk management experts and organisations (partnership facilitator)



Make relevant knowledge on civil protection and disaster risk management accessible to all (knowledge broker)



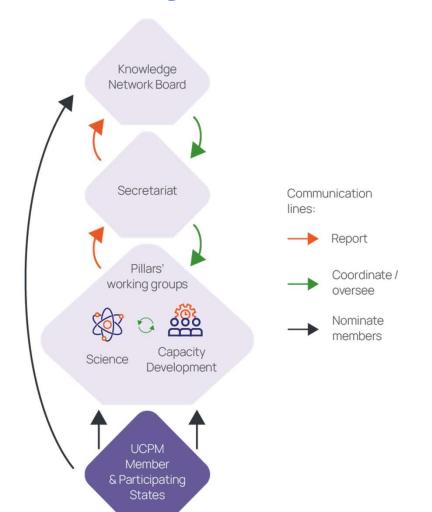


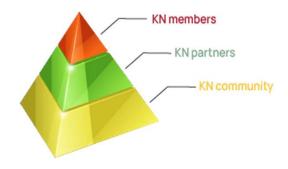
Expand incrementally with time

Foster innovation for more efficient and effective civil protection systems
(innovation catalyst)



UCPKN governance & stakeholders groups





- KN members i.e. the national civil protection authorities of the UCPM MS/PS and the European Commission
- KN partners i.e. all institutional stakeholders who are involved in the development and implementation of the Network's activities
- KN community i.e. a broad category of civil protection and disaster management organisations with an interest in and willingness to contribute to the Knowledge Network and its activities, but without contractual or legal obligations

Become a community member!



UCPKN key activities

UNION CIVIL PROTECTION KNOWLEDGE NETWORK



UCPM Training Programme



UCPM Lessons Learnt Programme



Awareness-raising activities



Exchange of Civil Protection Experts



Scientific advice & innovation



Community engagement



Civil protection exercises



Thematic workshops & conferences



Partnerships facilitation opportunities







Capacity
Development Pillar

Union Civil Protection Knowledge Network

UNION CIVIL PROTECTION KNOWLEDGE NETWORK



The Capacity Development Pillar

The Capacity Development Pillar aims to connect, promote and strengthen capacity development initiatives relevant to civil protection and disaster management stakeholders, with the view of increasing collective capacity of the UCPM to prevent, prepare for and respond effectively to emergencies.

Training programme

- A dynamic and comprehensive training programme tailored to specific target groups
- ✓ It supplements the national training offered to experts by their home countries / organisations to better prepare them for international deployments under UCPM
- √ 10 UCPM courses, 5 stand-alone online modules, 2 ad-hoc training courses, 4 EC-UN joint courses
- √ Total: 700+ courses, 12100+ course places, 5400 experts trained

Exercise programme

2 types of exercises:



Table-top exercises



Field exercises

- Exercise objectives:
- Coordination
- Interoperability
- · Standard Operating Procedures
- · Communication and reporting
- Self-sufficiency
- · Safety & Security
- Specific learning objectives of participants



UNION CIVIL PROTECTION KNOWLEDGE NETWORK

UCPKN Activities 2022



Governance

- Strategic planning
- KN Board
- Capacity
 Development pillar working group
- Science pillar working group
- Secretariat

Capacity Development

- UCPM Training Programme
- · Ad-hoc training opportunities
- UCPM Full-Scale Exercices
- MODEX Exercises
- Plug-in and Host Nation Support Exercises
- · Exchange of Experts Programme
- Prevention and Preparedness Missions
- · Peer Review Programme
- MS/PS activities

Science

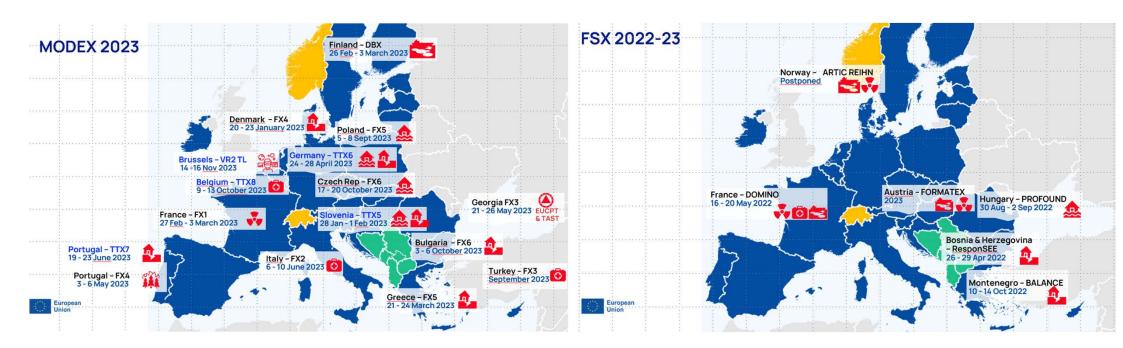
- · Risk Data Hub
- Events & capacity building initiatives on science
- Scientific support to Union disaster resilience goals
- Other data & tools (Solutions Explorer, Gaps Explorer)
- Support to National Risk Assessments
- · Common terminology for DRM
- Collaboration with Horizon Europe
- MS/PS activities

Horizontal activities

- Knowledge Network Partnerships
- Single country grants for disaster risk management (Track 1)
- Multi-country prevention & preparedness grants (Track 2)
- UCPM Lesson Learnt Programme
- · Civil Protection Forum
- · Collaborative online platform
- Community of Practice
- Communication activities
- MS/PS activities



Exercises 2022-2023

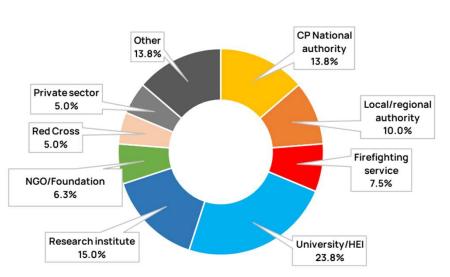




KN Partnership: 2020-21 projects

14 projects | 80 organisations | 32 countries









UNION CIVIL PROTECTION KNOWLEDGE NETWORK

The Science Pillar

The Science Pillar aims to bring together academia, practitioners and decision-makers for multi-disciplinary, cross-sectoral and cross-border cooperation. One of its objectives is to apply scientific knowledge to disaster risk management - particularly prevention and preparedness activities - more efficiently.

Disaster Risk Management Knowledge Centre 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



UNION CIVIL PROTECTION KNOWLEDGE NETWORK

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UNION CIVIL PROTECTION KNOWLEDGE NETWORK

2 steps implementation plan for the Science Pillar



1st phase: integrating and consolidating the existing activities developed by the DRMKC and other projects through closer engagement of MS/PS in their implementation.

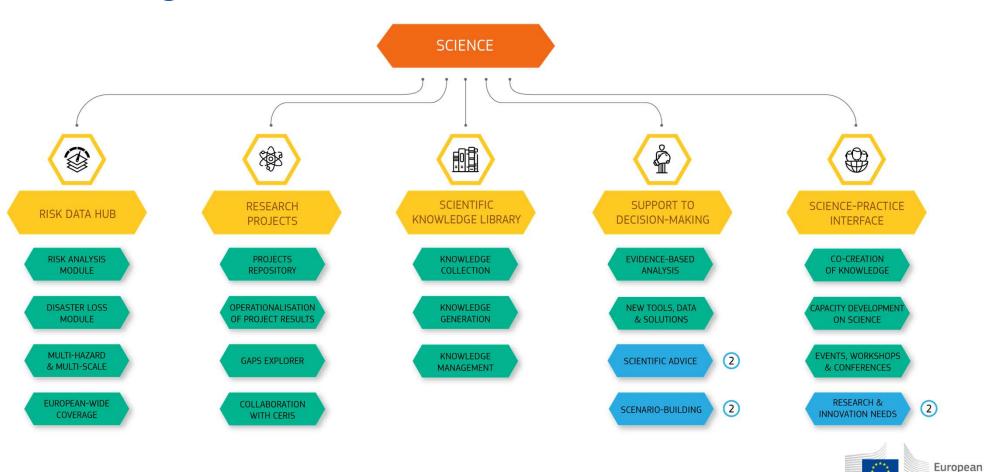
- DRMKC Risk Data Hub (incl. workshop), Projects & Gaps Explorers, common terminology for DRM
- Horizon projects, Community of European Research and Innovation for Security (CERIS)

2nd phase: identification and integration of other relevant scientific activities into the Science pillar's structure to further stimulate research and innovation. **To be decided** according to:

- decisions of the KN Board
- orientations of the Science Pillar working group
- inputs from the DRMKC Annual Seminar



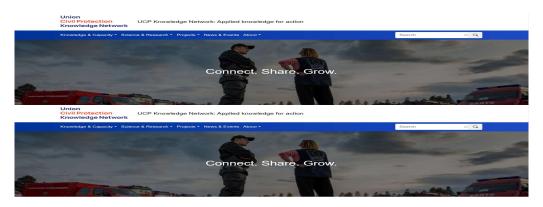
Existing and foreseen activities/deliverables



Commission

Inception of the UCPKN

- established by the Commission Implementing Decision 2021/1956 of 10 November 2021
- officially inaugurated on 7 December 2021 by the European Commissioner for Crisis Management Janez Lenarčič
- 2022: the first full year of the <u>Knowledge Network</u>'s operations



Subscribe now!





Dear Reader: We are at a turn

We want a burring point. The busines Chail Protection Mechanism marked to 200 huneviews with a record must not fill activation in 2007. The word is expected to see greater, not because the support smultaneous and complex disasters. Solidarly is than increasingly necessary to face the complex disasters in the control of the control of

By choosing climate change and its consequences for the European only protection as the central theme of its mandate, the Ferrich Presidency of the Qualified The Uppean Union wants to place the major cause of this necessary adaptation at the heart of discussions. Report wents, such as those in them of the Climpe and around the Mediterranean last summer, have unfortunately confirmed the necessity of this approach. Therefore, we must not weaker, but foculty and leep going forward with the work initiated in this

The Presidency workshop "impacts on climate change on EU civil protection" was met with high interest of the community, it allowed us to bring together delegates from the EU Nembus States. the Commission and deperts to exhaust a respect to the EU Nembus States, the Commission and deperts to exhaust necessary to the EU Nembus States and the EU Nembus States and the part of the exhaust necessary to the EU Nembus States and the EU Nembus States and the part of the exhaust necessary to the EU Nembus States and the EU Nembus States and the EU Nembus States and the exhaust necessary to the EU Nembus States and the

scale ownicies, organized during the mendator of the Presidency.
This work of taking stock of future consequences and impacts must a
us to better understand and process findings and protect ourselves,
knowledge of, and response to, climate horge will depend on our realism
programfarm, as well as on our admit by threighted in this assessments into it
term strategy Leiscon's learnt and experiences should neep us more forward
anticipation, minglation, planning and operational respensantation. Experi

Harmonious results from strengthened cross-border and multi-sec cooperation, and from capitalising on the Knowledge Network - including Disaster Risk Managament Knowledge Centre and future centres of experwith a risk-based approach working together in Europe - will pave the war further synergies in future reflections and decisions.

The will is there. Let us build momentum and use all the resources at disposal to adequately prepare for what is to come. Together.

Stéphane Thebault

Deputy Director in charge of International Affairs, Resources and Strategy

IN THIS ISSUE

UCPM response to Russia

UCPM response to Russia

Invasion of Urraine

Invasio



DRMKC & UCPKN 2022/2023



The 7th edition of the Forum, by the EC, 28 and 29 June 2022 in Brussels



Risk Data
Hub
Workshop
15 June
2022





Union Civil
Protection
Knowledge
Network
Newsletters

#EuropeanYearofYouth #EYY2022



YOUTH IN CIVIL PROTECTION & DISASTER RISK MANAGEMENT STUDY VISIT 11-12 OCTOBER 2022 Advancing evidence-based policy and practice

DISASTER RISK
WANAGEMENT
KNOWLEDGE CENTRE

6th Annual Seminar

Union Civil Protection Knowledge Network

6th DRMKC Annual Seminar, 22-23 Nov 2022 Planned: Evidence for Policy School in the summer of 2023



UCPKN: what's in it for me?



Policy makers

- Stronger evidence to support decision-making
- Better identification of gaps and strategic needs
- Cross-sectoral and multidisciplinary cooperation



Practitioners

- Easy access to guides, toolkits, good practices & lessons learnt
- Scenarios to support preparedness
- Networking opportunities to share and learn



Researchers

- Stronger ties between science and disaster management
- Effective dissemination of scientific findings
- Easier translation of scientific findings into UCPM practice



UCPKN online collaborative platform

UNION CIVIL PROTECTION **KNOWLEDGE NETWORK**

https://civil-protection-knowledge-network.europa.eu/

- ✓ Information and collaboration hub for the civil protection and disaster risk management community in Europe
- ✓ Sectoral news and events, stories and testimonials from the UCPM community
- ✓ Working spaces for DRM projects for visibility and sharing
- ✓ Soon: single-entry point for Knowledge Network training opportunities
- ✓ Soon: discussion groups, knowledge library, improved interactive tools & databases, and more
- ✓ Never-ending work in progress: we improve with you and for you



















Questions?



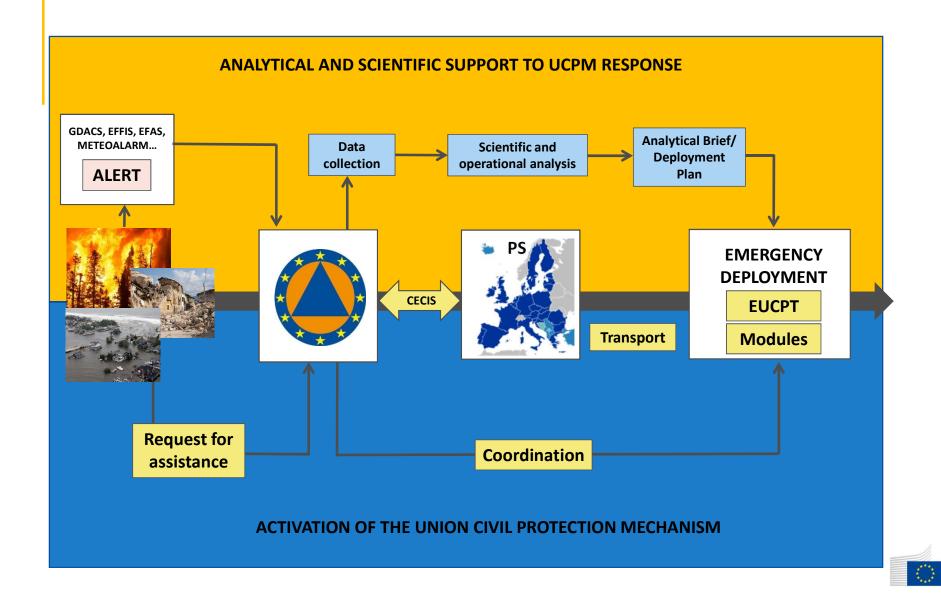


Use of scientific advice and evidence for prevention, preparedness and response

examples of operational use of DRM knowledge

Ainara Casajus Valles, DG ECHO





European Commission

Early Warning and Information Systems

Global Disaster Alert and Coordination System (GDACS)



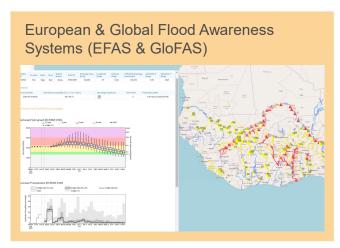
| EARTHQUAKES | | TROPICAL CYCLONES | | FLOODS | | VOLC | VOLCANOES | | DROUGHTS | | FOREST FIRES | |
|-------------|--|-------------------|---|--------------|--------------------------------|------|---|-----|--|---|---|--|
| 1 | Italy (M 5.6) - 09 Nov 06:07 | 5 | NICOLE-22 (120 km/h) - 09 Nov 03:00 | м ® . | Venezuela - 06 Nov 2022 | £ | Stromboli (Italy) - 09 Oct 2022 | 20 | Central South America-2019 - 151 Weeks | 8 | Mozambique (61835 ha) - 24 Oct 2022 | |
| 1 | Nepal (M 5.6) - 08 Nov 20:27 | 5 | LISA-22 (139 km/h) - 05 Nov 15:00 | ω β . | Afghanistan - 06 Nov 2022 | Á | Fournaise, Piton de la (France) - 19 Sep 2022 | 500 | Patagonia (Argentina, Chile)-2022 - 107 Weeks | 8 | Mozambique (21724 ha) - 24 Oct 2022 | |
| M | Celebes Sea (M 5.6) - 06 Nov 00:03 | 5 | FOUR-22 (65 km/h) - 05 Nov 2022 | μ i | United States - 05 Nov 2022 | Á | Krysuvik (Iceland) - 03 Aug 2022 | 10 | Madagascar-2020 - 107 Weeks | 8 | Mozambique (11543 ha) - 24 Oct 2022 | |
| 1/2 | Gulf Of California (M 6.1) - 04 Nov 2022 | 5 | MARTIN-22 (139 km/h) - 03 Nov 2022 | и я . | Malaysia - 03 Nov 2022 | A | Sakurajima (Japan) - 25 Jul 2022 | 50 | East Africa-2022 - 37 Weeks | 8 | Mozambique (15636 ha) - 17 Sep 2022 | |

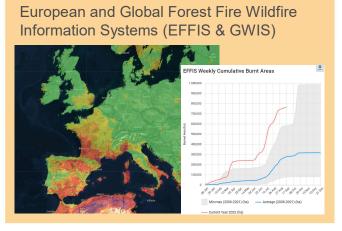
European

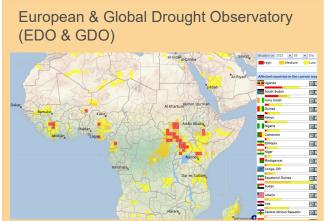
Early Warning and Information Systems

The Copernicus Emergency Management Service (CEMS)







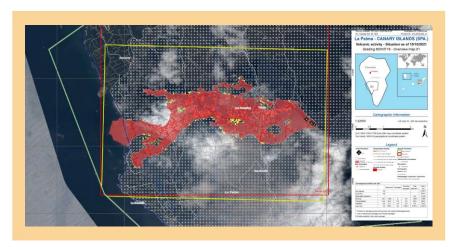


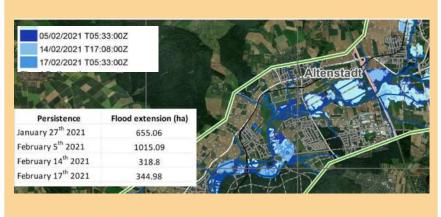


Early Warning and Information Systems

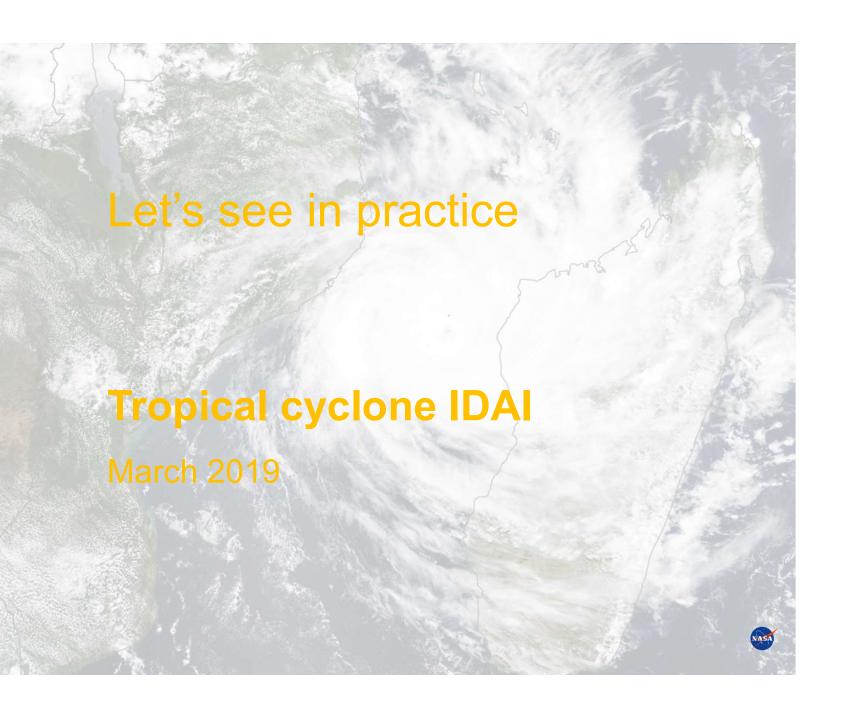
The Copernicus Emergency Management Service (CEMS)











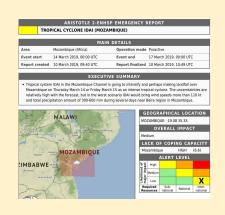


• 10 March 2019. Alert



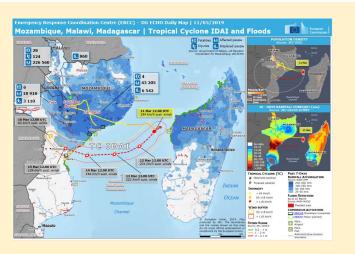


- 10 March 2019. Alert
- 11 Mar 2019. ARISTOTLE activation



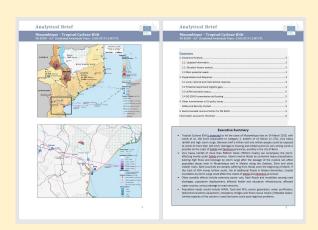


- 10 March 2019. Alert
- 11 Mar 2019. ARISTOTLE activation
- 11 Mar 2019. Daily Map





- 10 March 2019. Alert
- 11 Mar 2019. ARISTOTLE activation
- 11 Mar 2019. Daily Map
- 13 Mar 2019. Analytical Brief



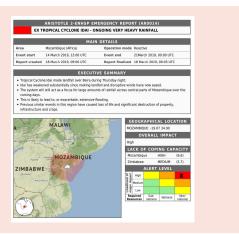


• 15 March 2019. Copernicus Rapid Mapping





- 15 March 2019. Copernicus Rapid Mapping
- 18 March 2019. ARISTOTLE activated



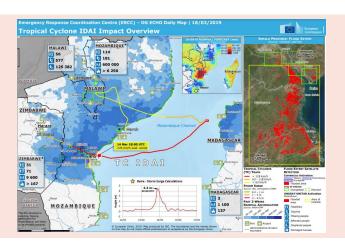


- 15 March 2019. Copernicus Rapid Mapping
- 18 March 2019. ARISTOTLE activated
- 18 March 2019. Deployment Plan





- 15 March 2019. Copernicus Rapid Mapping
- 18 March 2019. ARISTOTLE activated
- 18 March 2019. Deployment Plan
- 18 March 2019. Daily Map (update)

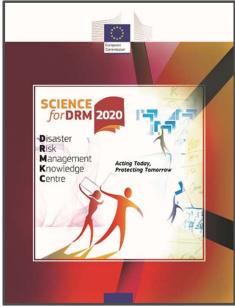




Other examples of DRMKC science advice for policy makers

Science for DRM Reports



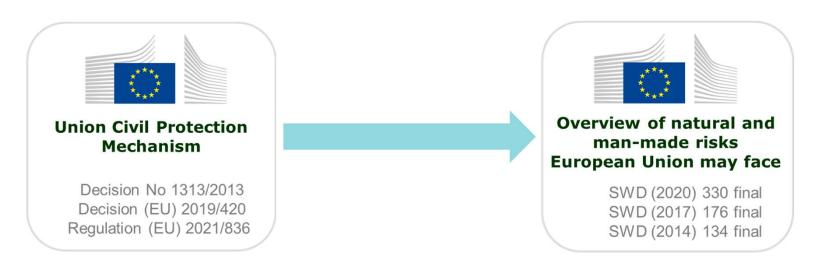


Recommendations for National Risk Assessments





Risk Management: risk assessments and risk management capability assessments



Member States are asked to make available to the European Commission a summary of their national risk assessments and the assessment of risk management capabilities every 3 years



Recommendations for risk assessment

To support the implementation of disaster risk strategies



Contribution of **14 teams of experts** for risks of natural, technological and anthropogenic nature.

- Step by step description of the process, data and tools for risk identification, analysis and assessment.
- Approach to move towards multi-hazard assessments.
- Examples of risk treatment measures for the hazards tackled.
- Approach to strengthen disaster risk management capabilities.



Science for DRM Reports

To bridge science and policy as well as operational communities



Collaborative effort of **more than 250 experts** for each of the volumes.

- Understanding disaster risk, communicating disaster risk and managing disaster risk.
- Provide science-base approaches and solutions in disaster risk management.
- Provide guidance to the stakeholders on working together across sectors, disciplines and organisations.
- Recognition of knowledge gaps, to be addressed by future research and development projects.



Questions?





Slido for feedbacks

 Give us some feedbacks before leaving!





Thank you

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

ERCC portal | https://erccportal.jrc.ec.europa.eu/#/echo-flash-items/latest

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