Ref. Ares(2022)4785462 - 30/06/2022

CI3R

PROTEZIONE CIVILE
Presidenza del Consiglio dei Ministri
Dipartimento della Protezione Civile

ROADMAP

euROpean observAtory on Disaster risk and crisis MAnagement best Practices

Project Details | Start date: **1st January 2021** | End date: **30th June 2022** | Duration: **18 Months**
Reference: **101017776 – ROADMAP – UCPM-2020-KN-AG**

D4.4 Final Workshop

Grant Agreement n.: 101017776 - ROADMAP - UCPM-2020-KN-AG
Project co-funded by the European Union Civil Protection

ROADMAP

Introduction

The ROADMAP (EuROpean observAtory on Disaster risk and crisis MAnagement best Practices) Project is a 18 months project funded by DG-ECHO under the call UCPM-2020-KN-AG. The project started on 1st January 2021 and the main objective is to establish a European "Doctrine on disaster risk and crisis management", funded on the cooperation between scientific communities and DRM authorities. The doctrine, which is intended as "a shared understanding of disaster management between decision-makers and scientific actors", will be based on selected experiences, best practices and implemented solutions in EU Member States.

The Advisory Group

The Advisory Group (https://roadmap.ci3r.it/advisory-group/) is formed by selected experts on both science and decision-making in DRM from several countries, covering different risks and phases of DRM cycle. The networking activities between the project consortium and the Advisory Group will result in the establishment of a European think tank/ observatory on disaster risk and crisis management good practices that could represent a first step towards a Community of Practice to operate within the Union Civil Protection Mechanism, in collaboration with the Disaster Risk Management Knowledge Centre.

The Final Workshop

On 10 June 2022, the final workshop of the ROADMAP project was organized at the headquarters of the Italian Civil Protection Department.

At the event, representatives of other 2020 KN projects were invited to share experiences on these first implementations of the KN calls. On 9 June attendees joined the event social dinner.

The workshop constituted an opportunity to show the results of the project, in particular to present the "Doctrine on disaster risk and crisis management" intended as a shared understanding of disaster management between decision-makers and scientific actors.

The workshop was also the launch event for a proposal to further develop ROADMAP and its European Observatory on Best Practices in Disaster Risk and Crisis Management. Based on the collaborative process initiated during the project, the Observatory could continue its activities by building on a stakeholders' community of both national Civil Protections and research institutes to support policy-science interaction at EU and country level in terms of DRM, possibly forming the embryo of a European Good (?) Practice Observatory Community to improve the knowledge, understanding and replicability of DRM GPs.

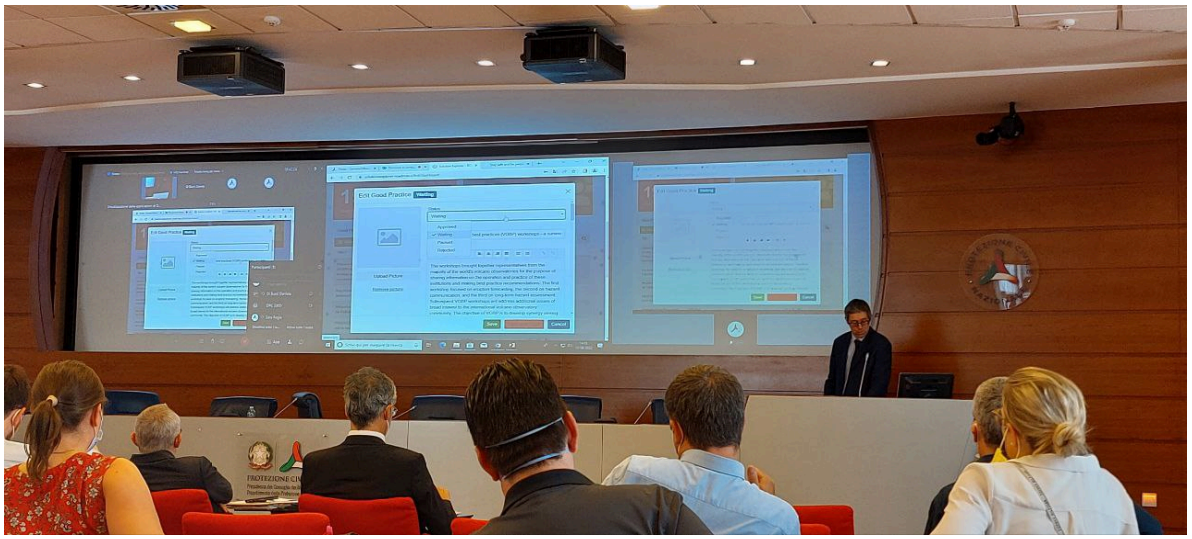
In what follows, some pictures from the workshop.







Grant Agreement n.: 101017776 - ROADMAP - UCPM-2020-KN-AG
Project co-funded by the European Union Civil Protection





Agenda Flyier

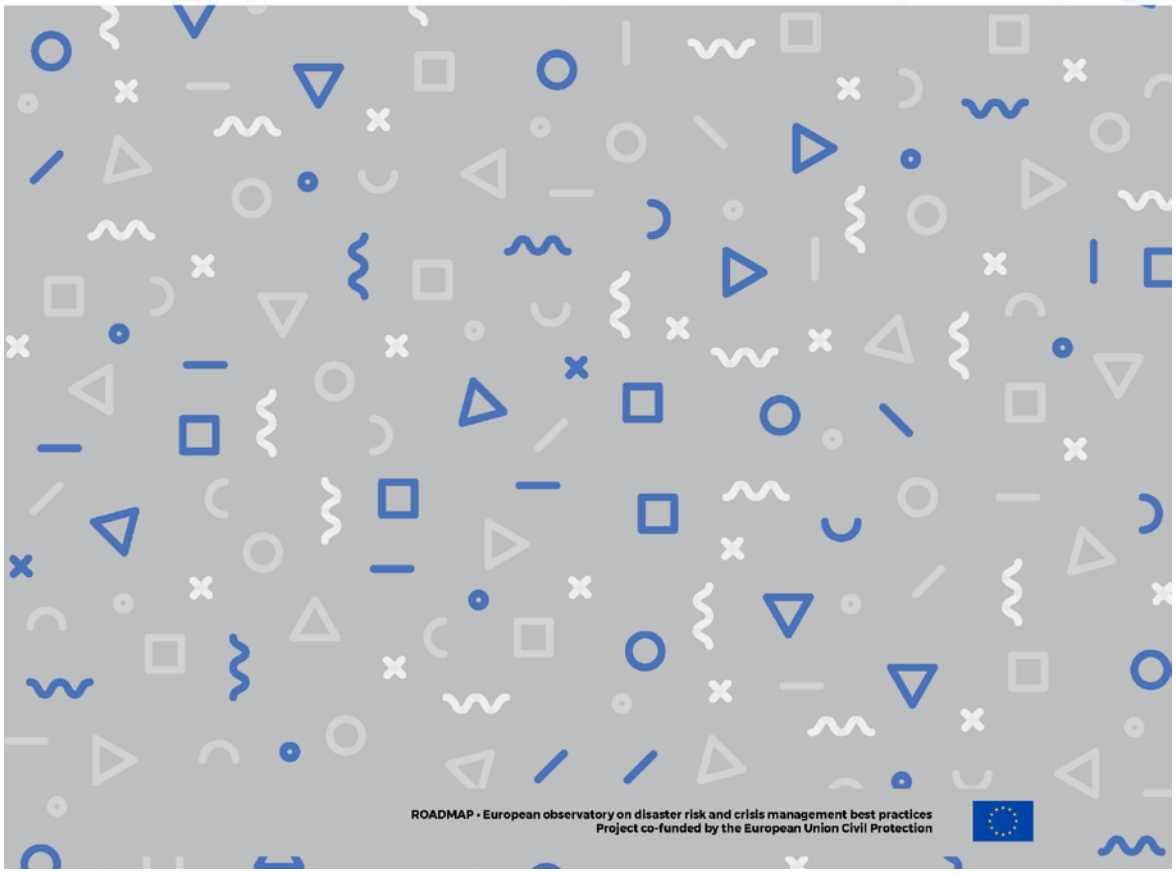
ROADMAP

FINAL WORKSHOP

10 JUNE 2022

Italian Civil Protection Department

Auditorium "Di Cicco" | Via Vitorchiano, 2 – Rome, Italy



CI3R

PROTEZIONE CIVILE
Presidenza del Consiglio dei Ministri
Dipartimento della Protezione Civile

UiS

ADAI

ROADMAP

euROpean observAtory on Disaster risk and crisis MAnagement best Practices

Agenda

Chairman: Giovanni De Siervo - ICDP

09:30 – 10:00	Opening of the works **Fabrizio Curcio** - ICDP, Head of the Department **Andrea Prota** - CI3R, Project Coordinator
10:00 – 10:20	ROADMAP project overview **Maria Polese** - CI3R
10:20 – 10:35	The DG-ECHO perspective on the Knowledge Network **Felix Bloch** - DG-ECHO
10:35 – 10:50	The JRC perspective on the Science Pillar of Knowledge Network **Alessandra Zampieri** - JRC
10:50 – 11:00	*Questions and answers*
11:00 – 11:30	*Coffee break*
11:30 – 11:45	ROADMAP Products: The Bulletins **Giulia Fagà** - CI3R
11:45 – 12:00	ROADMAP Products: The Thematic Papers **Claudia Morsut** - UiS
12:00 – 12.15	ROADMAP Products: The Vision Paper **Daniela Di Bucci** - ICDP
12:15 – 12:30	Introducing the Advisory Group **Domingos Xavier Viegas** - ADAI
12:30 – 12:45	Conversation with the Advisory Group *Leads the Conversation:* **Domingos Xavier Viegas**
12:45 – 13:00	*Questions and answers*
13:00 – 14:30	*Lunch*
14:30 – 14:45	ROADMAP Products: The Webinars **Tiago Rodrigues** - ADAI
14:45 – 15:05	ROADMAP Products: The Solutions Explorer (presentation and webtool) **Nicola Rebora** - CI3R
15:05 – 15:45	Round table: general discussion on future perspectives *Leads the Round table:* **Mauro Dolce**
15:45 – 16:00	Closing remarks **Artur Malantowicz** - DG-ECHO, Project Officer **Andrea Prota** - CI3R, Project Coordinator

The event will be streamed on the YouTube channel of Italian Department of Civil protection: https://www.youtube.com/c/DipartimentoProtezioneCivile

For more information, please visit: https://roadmap.ci3r.it/

Participants	

More than 50 people attended the workshop, coming from different countries, while a 3-4 attendees were connected online, as per the list below:

Name	Organization
Alberto Gotti	CI3R
Alessandra Zampieri	European Commission Joint Research Centre
Alexandre Tavares	Coimbra University and AdCL ADAI?
Andrea Prota	CI3R
Antonello Libroia	CI3R
Artur Malantowicz	DG-ECHO
Boris Petrenj	Politecnico di Milano
Carlin Alexandru	Department of Emergency Situations - Romania
Carlos Mendez Luisio	Portuguese National Authority for Civil Protection (ANEPC)
Chris Burton	University of Connecticut
Claudia Morsut	University of Stavanger - Norway
Daniela Di Bucci	Italian Department of Civil Protection IDPC
Darko Mrvaljevic	NALAS ?
Dimitrios Emmanouloudis	
Domingos Viegas	ADAI
Edoardo Cosenza	CI3R
Eleny Kapocianni	Italian Department of Civil Protection IDPC
Eleonora Panunzi	Italian Department of Civil Protection ICPD
Elin Baranyai-Ulvestad	
Emiliya Hamidova	CI3R
Fabrizio Curcio	Italian Department of Civil Protection ICPD
Fantina Tedim	University of Porto
Fausto Guzzetti	Italian Department of Civil Protection ICPD
Felix Bloch	DG-ECHO
Francesca Giuliani	CI3R
Galya Terzieva	ISEMI ?
Gerhard Wotawa	Zentralanstalt fuer Meteorologie und Geodynamik ZAMG

Giovanni De Siervo	Italian Department of Civil Protection IDPC
Giulia Fagà	CI3R
Helmut Kreuzwirth	Department of Civil Protection Government of Styria - Austria
Iain Stewart	Royal Scientific Society - UK
Jordi Vendrell Flotats	
Juliet Martinez	UNDRR
Kinga Perge	
Linnéa Arnevall	Swedish civil contingencies agency MSB
Luca Ferraris	CI3R
Lucia Castro Herrera	University of Agder - Norway
Luigi D'Angelo	Italian Department of Civil Protection ICPD
Machis Ion	Department of Emergency Situations - Romania
Maria Polese	CI3R
Marina Morando	CI3R
Marzia Santini	European Commission Joint Research Centre
Mauro Dolce	Italian Department of Civil Protection IDPC
Nadia Khdaidi	Italian Department of Civil Protection IDPC
Nataša Holcinger	Civil Protection Directorate Croatian Ministry of the Interior
Nicola Rebora	CI3R
Piero Farabollini	Università di Camerino
Sebastian Penzini	United Nations
Serena Tagliacozzo	CNR
Tiago Rodriguyes	ADAI
Titti Postiglione	Italian Department of Civil Protection ICPD
Valentina Rizzoli	Department of Communication and Social Research, University La Sapienza Rome

Streaming

The event was streamed on the YouTube channel of Italian Department of Civil Protection (https://www.youtube.com/c/DipartimentoProtezioneCivile)

At the following link, records of the event are available:

- https://www.youtube.com/watch?v=5YyI93GWLjQ&t=30s
- https://www.youtube.com/watch?v=Ms63gIRqJzA&t=3106s
- https://www.youtube.com/watch?v=J7bqkzgH8-g&t=698s

Annex 1 8th Bulletin

An additional bulletin has been prepared, in order to wrap up the project results at the end of the final workshop.

Bulletin 08.2022 | DOI: 10.57580/BLT8DOI

ROADMAP

Project Details | Start date: **1st January 2021** | End date: **30th June 2022** | Duration: **18 Months** | Reference: **101017776 – ROADMAP – UCPM-2020-KN-AG**

Eighth periodical bulletin

The eighth bulletin of the ROADMAP project focuses on the description of the main project results.

The Project

ROADMAP was an 18-months project funded by DG-ECHO under the call UCPM-2020-KN-AG to address the Specific Objective 1 of the call "*To support civil protection and disaster risk management actors that promote and facilitate the development, dissemination and exchange of knowledge, good practices and expertise*"
The project started on the 1st of January 2021 and ended on the 30th of June 2022 and includes four beneficiaries:

- CI3R - Italian Center for Research on Risk Reduction (Coordinator) – Italy;
- ICPD - Italian Civil Protection Department– Italy;
- UiS – University of Stavanger– Norway;
- ADAI- Association for the Development of Industrial Aerodynamics - Portugal.

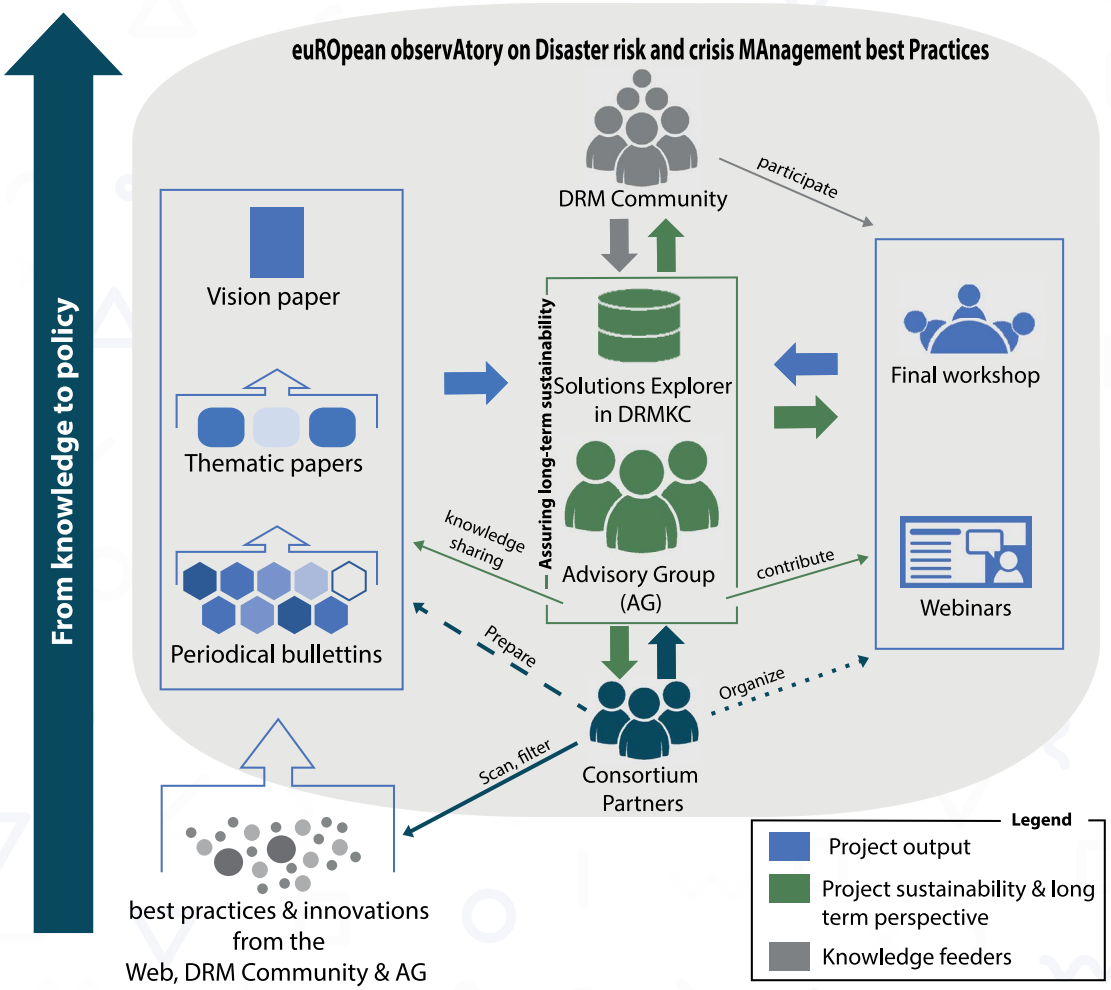
The project was articulated in three technical Work-packages respectively dealing with the establishment of the ROADMAP Network (WP2), the project planning and activities (WP3), and the communication and visibility (WP4), besides one additional WP dealing with the project management (WP1).
The project activities were designed with the aim of providing sustainability to the project results so that they can be easily linked to well-established European (e.g. the Disaster Risk Management Knowledge Centre - DRMKC) and national (e.g. national Civil Protection authorities) initiatives and institutions.

Project Objectives

The main objectives of ROADMAP were:

- To establish a shared European Doctrine on disaster risk and crisis management funded on the mutual cooperation of scientific communities and disaster risk management authorities to support the development, dissemination and exchange of knowledge, good practices and expertise.
- To establish and consolidate the networking activities of a community of stakeholders formed by experts both on science and decision making in DRM, to promote and support new and consolidate existing partnerships in civil protection and disaster risk management enhancing cooperation and synergies in prevention, preparedness and response.

These objectives have been achieved through a bottom-up approach (*from knowledge to policy*) and through a number of activities and intermediate results that are collectively represented in the following figure.



The first step was the collection of best practices and lessons learned through a systematic review of past and ongoing National/International projects and initiatives dealing with DRM. These have been collated in the form of seven **bi-monthly bulletins** targeting decision makers, including policy makers and civil protection practitioners, so as to provide them with a fresh update on relevant news and applications worldwide in DRM field.
The second step consisted of three **thematic papers** which addressed key topics in the DRM field. The selection of topics for the thematic papers have been achieved through close and synergic interaction with the project's Advisory Group.
As a third step, expertise in civil protection and disaster risk management has been further developed and shared through the preparation of a **vision paper** for DG ECHO based on the key findings from the three thematic papers.
The knowledge spreading and catching up with the DRM community have been ensured also by a series of **webinars** organized to discuss topics selected on the basis the bulletins and the thematic papers contents, with outstanding experts including Advisory Group and external experts.
Finally, a suitable web-based **Solutions Explorer** has been developed for useful consultation of existing good practices, organized by themes, type of users and relevant DRM phases; this tool will also be made available to the DRMKC website.
A **final project workshop** has been finally organized in Rome at the DPC premises on the 10th of June 2022 to present and interactively discuss the main project results and products with a wide stakeholder's audience and the European Commission.
The ensemble of results, in terms of publications (bulletins, thematic papers and vision paper), the activation and vitalization of community of stakeholders, the webinars and meetings activities as well as the Solutions Explorer, contributed to the formation of a European observatory on disaster risk and crisis management best practices and to pave the way towards a multi-level governance roadmap that can strengthen the interaction between the National and EU levels in sharing, discussing and adopting effective (and possible common) policies in DRM based on well-established experiences provided both at Member States and EU level.

Through its activities and results, the ROADMAP project contributed to the establishment of European think tank/observatory on disaster risk and crisis management best practices that could represent a first step towards a **Community of Practice** at European level.
All the project results have been uploaded and are freely available through the ROADMAP website to ensure both long-term visibility and legacy.

Project Results

Periodical bulletins[1]

The scanning of good practices and innovations towards preparation of periodical bulletins performed continuously during the project. ROADMAP published eight bulletins, six of these focusing on a particular macro-theme, selected according to a multi-risk perspective and considering all the phases of DRM. Events with high impact and recent occurrence have been included and priority has been given to multi-hazard risk scenarios, featuring concurrent/cascading hazards. The bulletins targeting decision makers, including policy makers and civil protection practitioners, provided them with a fresh update on relevant news and applications worldwide in DRM field. The first and eighth bulletins issued by ROADMAP are mainly focused on the description of the project structure and objectives, and results, respectively. The other bulletins (2-7) targeted specific risks, in a multi-hazard risk effort, to provide the latest news and good practices derived from the analysis of recent projects, activities, and worldwide initiatives in the DRM/DRR field.

- **1st Bulletin:** Learn about the ROADMAP Project and its next steps[2]
- **2nd Bulletin:** The impact of the pandemics on emergency management[3]
- **3rd Bulletin:** Forest fires emergency management[4]
- **4th Bulletin:** Management of the floods and landslides risk[5]
- **5th Bulletin:** Management of volcanic eruptions and the associated risks[6]
- **6th Bulletin:** Management of climate change and food supply[7]
- **7th Bulletin:** Management of industrial accident and environmental pollution[8]
- **8th Bulletin:** ROADMAP project results

All published bulletins are available on the project website (https://roadmap.ci3r.it/publications/).

Thematic papers[9]

Thematic papers deal with issues related to DRM with a scenario-based approach, each one focusing on a selected relevant topic, also designed to disseminate the outcomes of the project, is aimed at identifying good practices, successful stories and lessons learnt and make them readily available and usable to the communities and practitioners interested and active in DRM and DRR fields to further increase the understanding of DRM solutions, in compliance with the United Nations' Sendai Framework for Disaster Risk Reduction (Sendai Framework) 2015-2030.
Three thematic papers have been prepared based on three selected topics:

- **1st Thematic Paper:** Good practices in multi-hazard risk scenarios[10]
- **2nd Thematic Paper:** Good practices in risk and crisis communication[11]
- **3rd Thematic Paper:** Good practices in building back better and Leaving No One Behind[12]

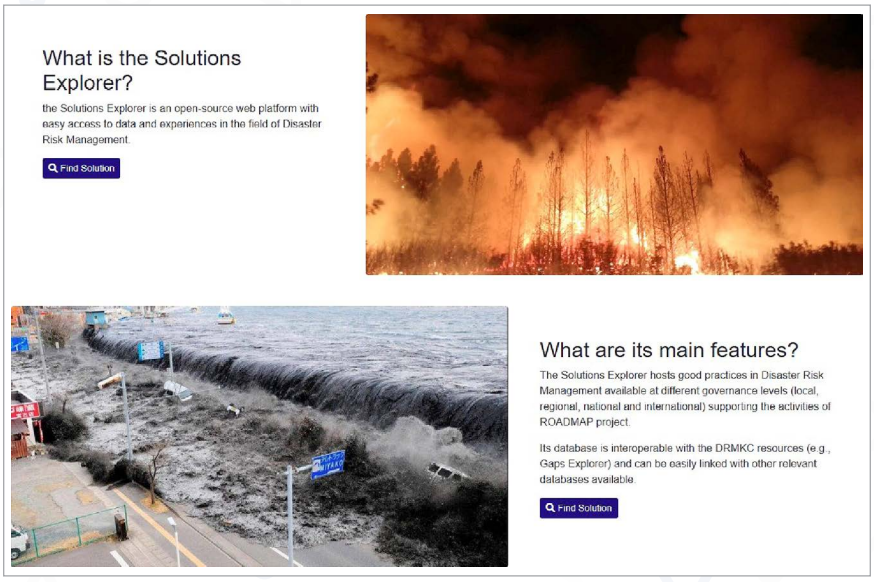
Once each thematic paper was finalised, the AG was invited to give an external review, and their inputs were then incorporated into the paper.

1 https://roadmap.ci3r.it/publications/
2 https://doi.org/10.57580/BLT1DOI
3 https://doi.org/10.57580/BLT2DOI
4 https://doi.org/10.57580/BLT3DOI
5 https://doi.org/10.57580/BLT4DOI
6 https://doi.org/10.57580/BLT5DOI
7 https://doi.org/10.57580/BLT6DOI
8 https://doi.org/10.57580/BLT7DOI
9 https://roadmap.ci3r.it/publications/
10 https://doi.org/10.57580/TP1DOI
11 https://doi.org/10.57580/TP2DOI
12 https://doi.org/10.57580/TP3DOI



Solutions explorer[13]

The Solutions Explorer is an open-source web platform aimed at provide for easy access to good practices in the field of Disaster Risk Management. It is a new platform that is made available to project partners and stakeholders (JRC), EC (DG-ECHO) and eventually open to the general public. This platform hosts a first selection of good practices in DRM at different governance levels (local, regional, national and international) and obtained from the activities of ROADMAP (e.g., vision paper, thematic papers, bulletins). Users can access the data through a dedicated web-based application, which offers advanced filtering and search facilities. The platform is expected to be filled through the collection of policies, good practices and procedural examples useful to compare different organizational pathways developed in the field of DRM in Europe.



13 https://solutionsexplorer-roadmap.ci3r.it/solution-explorer

The Vision Paper[14]

This document is intended for DG-ECHO and is the final step of the project, since, according to the project description, "The vision paper, elaborating and systematizing the findings from thematic papers, shall put the baselines for the creation of a shared European 'Doctrine on disaster risk and crisis management', also evidencing the research needs and possible actions to promote".

Based on the experience gained in the development of the project and the interaction with the AG, the project partners and all the other experts involved, this paper aims in particular to frame the activities of building a European DRM doctrine in a longer-term perspective. The main goal of the project is to establish a European "Doctrine on disaster risk and crisis management" that, as defined in the ROADMAP description: "is intended as a shared understanding of disaster management between decision-makers and scientific actors". The vision paper also includes a future perspective and some recommendations for DG-ECHO.

ROADMAP webinars[15]

The organization of webinars was an effective strategy to share and receive knowledge on GPs. These online initiatives gathered a relevant number of different stakeholders from multiple sectors. The main goal of the ROADMAP webinars was to share knowledge and activities, to improve DRM community and stakeholders' activities. The ROADMAP webinars were based on the bulletins and the thematic papers contents, following therefore a top-down approach. These contents were previously discussed by ROADMAP consortium and AG, exploring main topics to tackle in DRM. During these events, GPs, recommendations, and lessons learnt in prevention, preparedness and response were shared, discussed and collected. Thus, webinars were used as a strategy to collect GPs and scenario-based perspectives in DRM from well-known experts in their respective fields, following a bottom-up approach. The speakers were also invited to introduce and discuss topics of interest to complement the selected topics, presenting the state-of-the-art and major considerations or developments.

- **1st webinar:** The first Webinar, titled ""The nexus between Scientists and Decision Makers in Disaster Risk Management" was dedicated to the very important role of scientists and decision makers in the DRM process, in order to understand how the connection between these two groups can be improved. In the webinar, speakers were invited to give their views on criticalities in the collaboration science - policy making, based on their experience and expertise either as a scientist, a decision maker or both.
- **2nd webinar:** the second webinar, titled "Communication Challenges in Disaster Risk Management and Crisis Management", was dedicated to the complex task of risk and crisis communication during critical events. In the webinar experienced speakers working on risk and crisis communication were invited to give their views and insights in this area.
- **3rd webinar:** the third webinar, titled "Challenges and opportunities for the future of research and practice in disaster risk management", was dedicated to topics that include the main issues addressed by ROADMAP: good practices, (real life) scenario based approach, multi-hazard risk approach. In addition, representatives from other EU projects funded within the same call and related to these topics were invited to participate as well. This third and last ROADMAP webinar, was aimed at discussing relevant ROADMAP findings related to the use of good practices in multi-hazard risk scenarios and which challenges and opportunities DRM encounters in such a complex context.

Advisory Group meetings[16]

The ROADMAP Advisory Group (AG) is formed by experts in both science and decision making in DRM, from different countries and from networks already operating within the UCPM or other international platforms. Periodic (mainly online) meetings of the AG were held with the ROADMAP consortium, and organized in order to discuss in detail relevant topics and create a synergic and fruitful interaction on them, as well as to gather background information and feedback on solutions analysis. The selection of topics for the bulletins and the thematic papers has been also discussed with the AG. Four AG meetings were planned and held during the project.

- The first meeting was dedicated to present ROADMAP project as well as expected contributions from the AG in the several activities foreseen, including the bulletins, Thematic Papers, webinars, Solutions Explorer and the Vision Paper.
- The second AG meeting was dedicated to better define AG activities, considering ROADMAP project activities and outcomes.

14 https://roadmap.ci3r.it/publications/
15 https://roadmap.ci3r.it/publications/
16 https://roadmap.ci3r.it/advisory-group/

- The third AG meeting was mostly dedicated to Thematic Papers, to potentiate their discussion and development in an integrated way.
- The fourth AG meeting was dedicated to present and discuss ROADMAP outputs under development. In particular, the TP3 outline and rational were discussed with the AG Members. The Solutions Explorer and the vision paper were also presented and discussed, resulting in fruitful discussions and insights provided by the AG Members.

During these meetings, the AG members introduced their perspectives as well as innovative ideas and suggestions, providing rewarding guidance. The AG members also participated actively in the ROADMAP final workshop.

ROADMAP final workshop[17]

The workshop took place on 10 June 2022 in Rome (Italy), at the headquarters of the Italian Civil Protection Department, which is one of the project partners, together with the Consortium "Italian Centre for Risk Reduction" (CI3R, Italy), the Associação para o Desenvilvimento da Aerodinâmica Industrial (ADAI, Portugal), and the University of Stavanger (UiS, Norway). During the workshop, the project results were presented, including the final Vision paper on "Doctrine on disaster risk and crisis management", also aimed at stimulating the exchange of ideas and discussion between the two communities of scientists and civil protection decision-makers. The workshop was also the launch event for a proposal to further develop ROADMAP, the 'European Observatory on Best Practices in Disaster Risk and Crisis Management'. Based on the collaborative process initiated during the project, the Observatory could continue its activities by building on a stakeholder community of both National Civil Protections and research institutes to support policy-science interaction at EU and country level in terms of DRM, possibly forming the embryo of a European Best Practice Observatory Community to improve the knowledge, understanding and replicability of DRM GPs.
In the first part of the morning, the head of the Italian Civil Protection Department Fabrizio Curcio and the project coordinator Andrea Prota opened the works. Afterwards, Maria Polese, Felix Bloch and Alessandra Zampieri talked about the project, the DG-ECHO perspective on the Knowledge Network and the JRC perspective on the Science Pillar of Knowledge Network.
In the second part of the morning, Giulia Fagà, Claudia Morsut e Daniela Di Bucci presented the bulletins, thematic papers and vision paper, respectively. Domingos Xavier Viegas followed, presenting and moderating a conversation with the Advisory Group.
In the afternoon, Tiago Rodrigues and Nicola Rebora presented the webinars and the webtool Solutions Explorer.
Finally, Mauro Dolce moderated a round table dedicated to future perspectives, in which intervened Linnéa Arnevall (Swedish civil contingencies agency), Carlos Mendez Lucio (Portuguese National Authority for Civil Protection), Nataša Holcinger (Croatian Ministry of the Interior, Civil Protection Directorate) and Eleonora Panuzzi (IDCP).
The day ended with the closing remarks of Artur Malantowicz (project officer) and Maria Polese.
More than 50 people, coming from different countries, attended the workshop.
The workshop streamed on the YouTube Channel of the Italian Civil Protection and is available on the project website at the page https://roadmap.ci3r.it/publications/

[17] https://roadmap.ci3r.it/publications/






solution that is simple, neat, and
wrong“
H.L. Mencken (1880-1956)
PROTEZIONE CIVILE

Annex 2	Workshop Presentations

ROADMAP

euROpean observAtory on Disaster risk and crisis MAnagement best Practices

ROADMAP
Project overview

Maria Polese – CI3R

ROADMAP Final Workshop

June 10th, 2022

Project Co-funded by the European Union Civil Protection GA 101017776

ROADMAP consortium

1. **CI3R** – Italian Center for Research on Risk Reduction (coordinator) – **Italy**;

   consortium of 8 centres of competence of ICPD

2. **ICPD** Italian Civil Protection Department– **Italy**;

3. **UiS** – University of Stavanger– **Norway**;

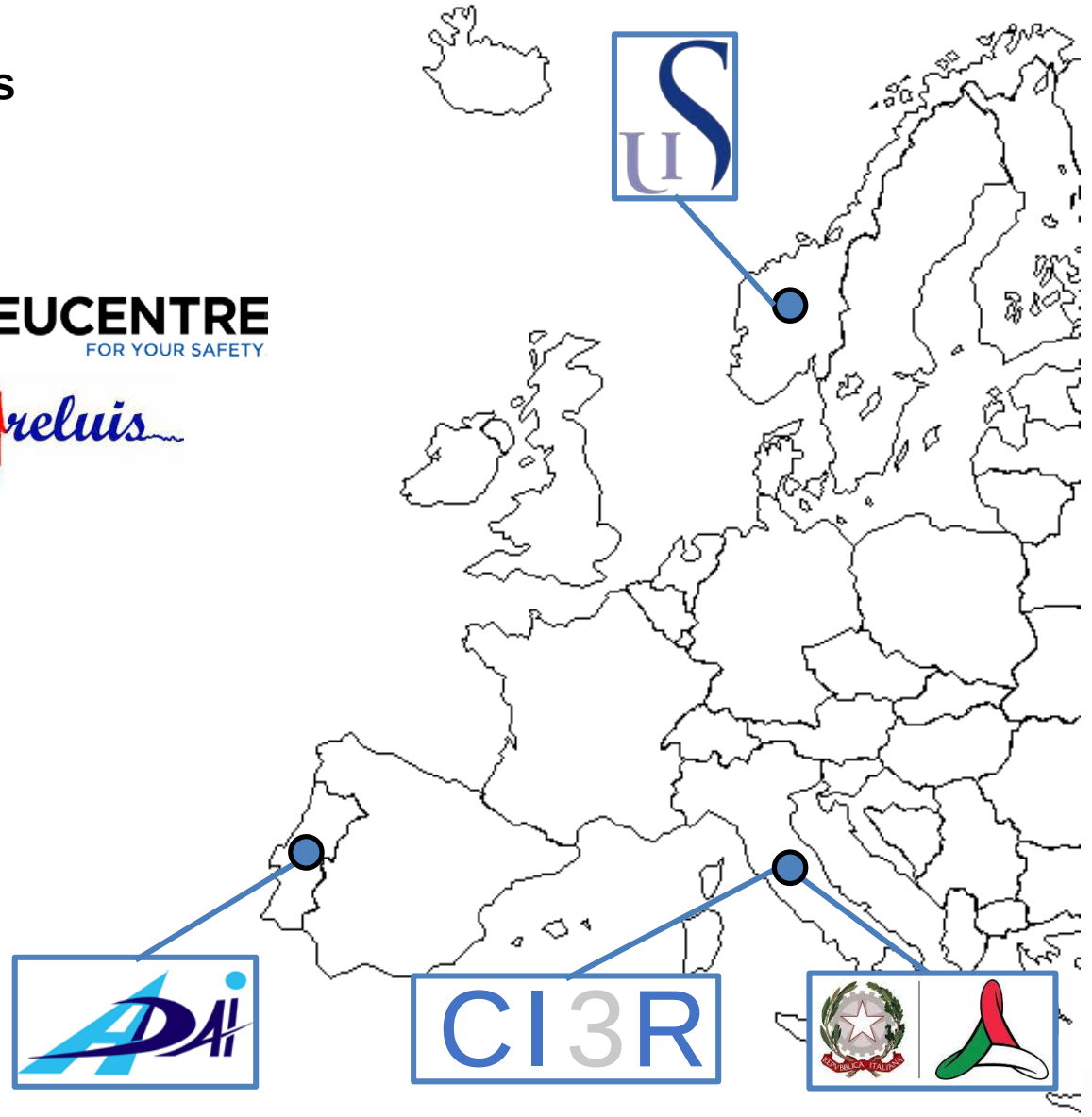
4. **ADAI**- Association for the Development of Industrial Aerodynamics - **Portugal**

3 Affiliated Entities

CIMA

EUCENTRE

ReLUIS



Why ROADMAP?

Different kinds of actors are involved in Disaster Risk Management (DRM)

- decision makers
  - *Political/Policy makers*
  - *Technical decision makers/practitioners*



- Scientists/academics



- Judiciary system



- mass media



- Citizens



- ……

Why ROADMAP?

Different kinds of actors are involved in Disaster Risk Management (DRM)

- decision makers
  - *Political/Policy makers*
  - *Technical decision makers/practitioners*





- Scientists/academics



- Judiciary system



- mass media



- Citizens
- ……

Often need to take complex decisions dealing with:

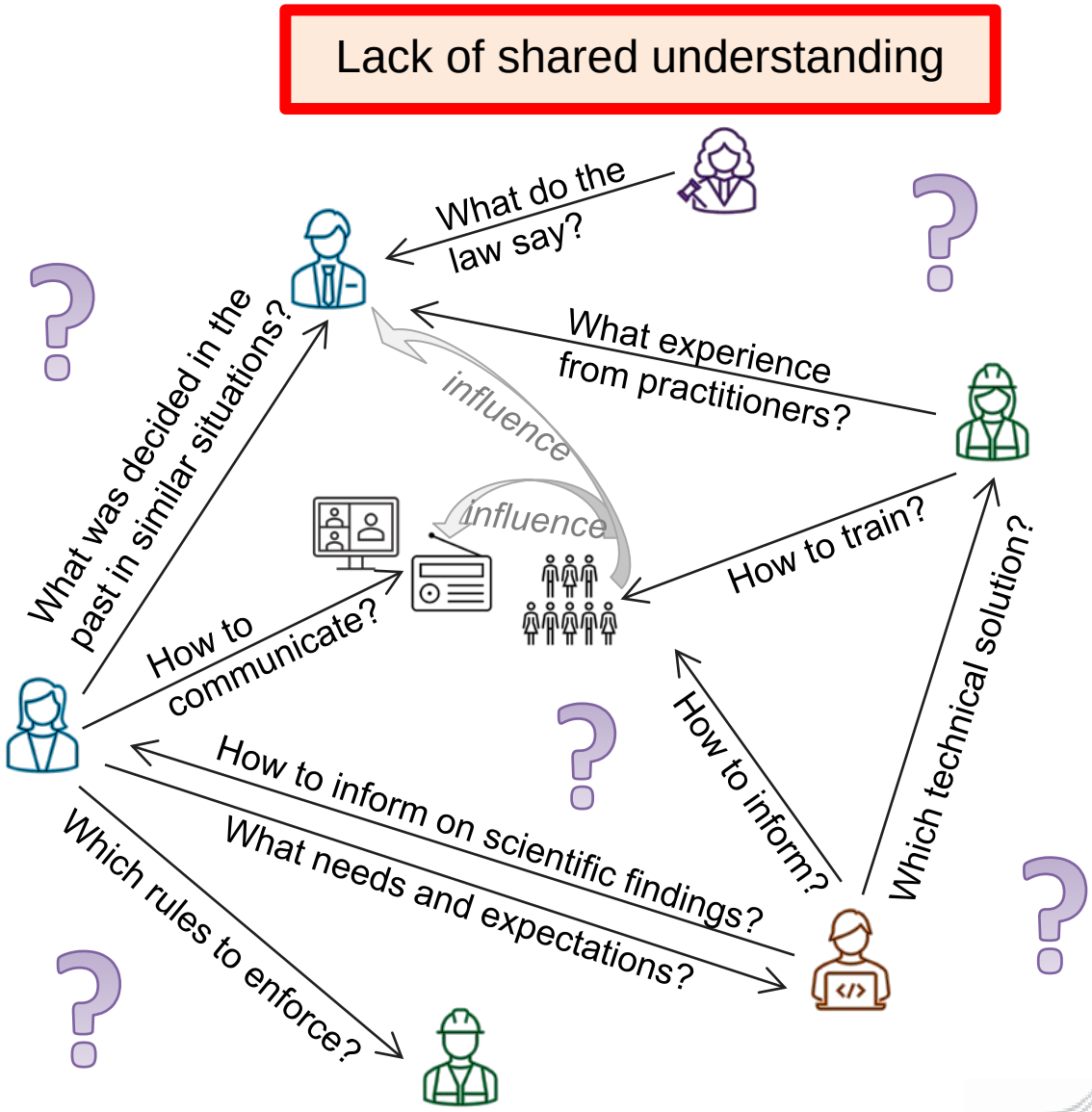
- Lack of time
- Lack of information
- Lack of knowledge
- Lack of shared experience

Learning from past positive experiences in DRM can facilitate the daily work of decision makers

Why ROADMAP?

Different kinds of actors are involved in Disaster Risk Management (DRM)

- decision makers
  - *Political/Policy makers*
  - *Technical decision makers/practitioners*
- Scientists/academics
- Judiciary system
- mass media
- Citizens
- ……



Why ROADMAP?

Different kinds of actors are involved in Disaster Risk Management (DRM)

- decision makers
  - *Political/Policy makers*
  - *Technical decision makers/practitioners*





- Scientists/academics



- Judiciary system
- mass media



- Citizens



- ……

Lack of shared understanding



Need to:

- **improve the understanding**,
- **systematization and**
- **sharing of good practices** and lessons learnt,

resulting from the concrete experiences of those working in the field of civil protection

ROADMAP objectives

Objective 1

- Put the baselines for the creation of a shared European

  “Doctrine on disaster risk and crisis management”

funded on the mutual cooperation of scientific communities and disaster risk management authorities

doctrine is intended as a shared understanding of disaster management between decision-makers and scientific actors

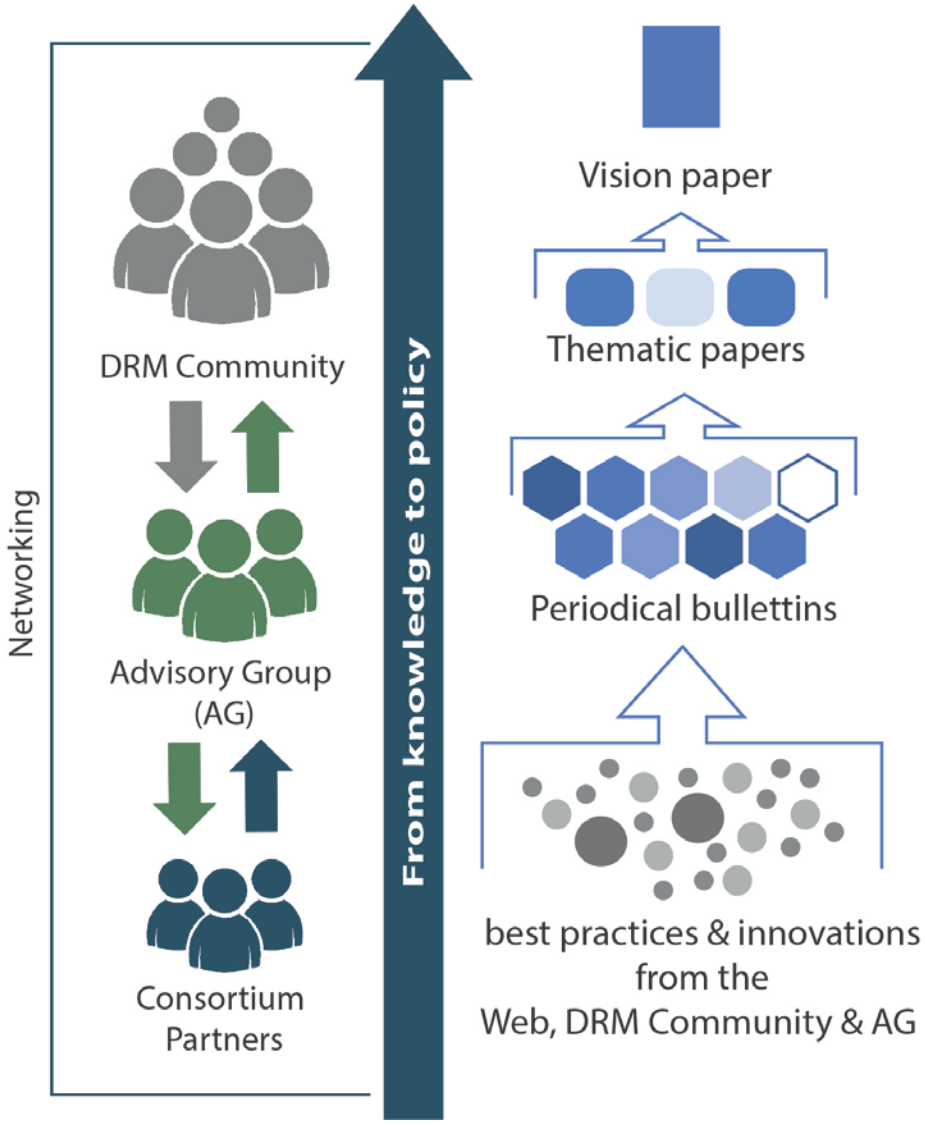
Objective 2

- Establishing and consolidating the

  networking activities of a community of stakeholders

  formed by experts both on science and decision making in DRM

The ROADMAP strategy

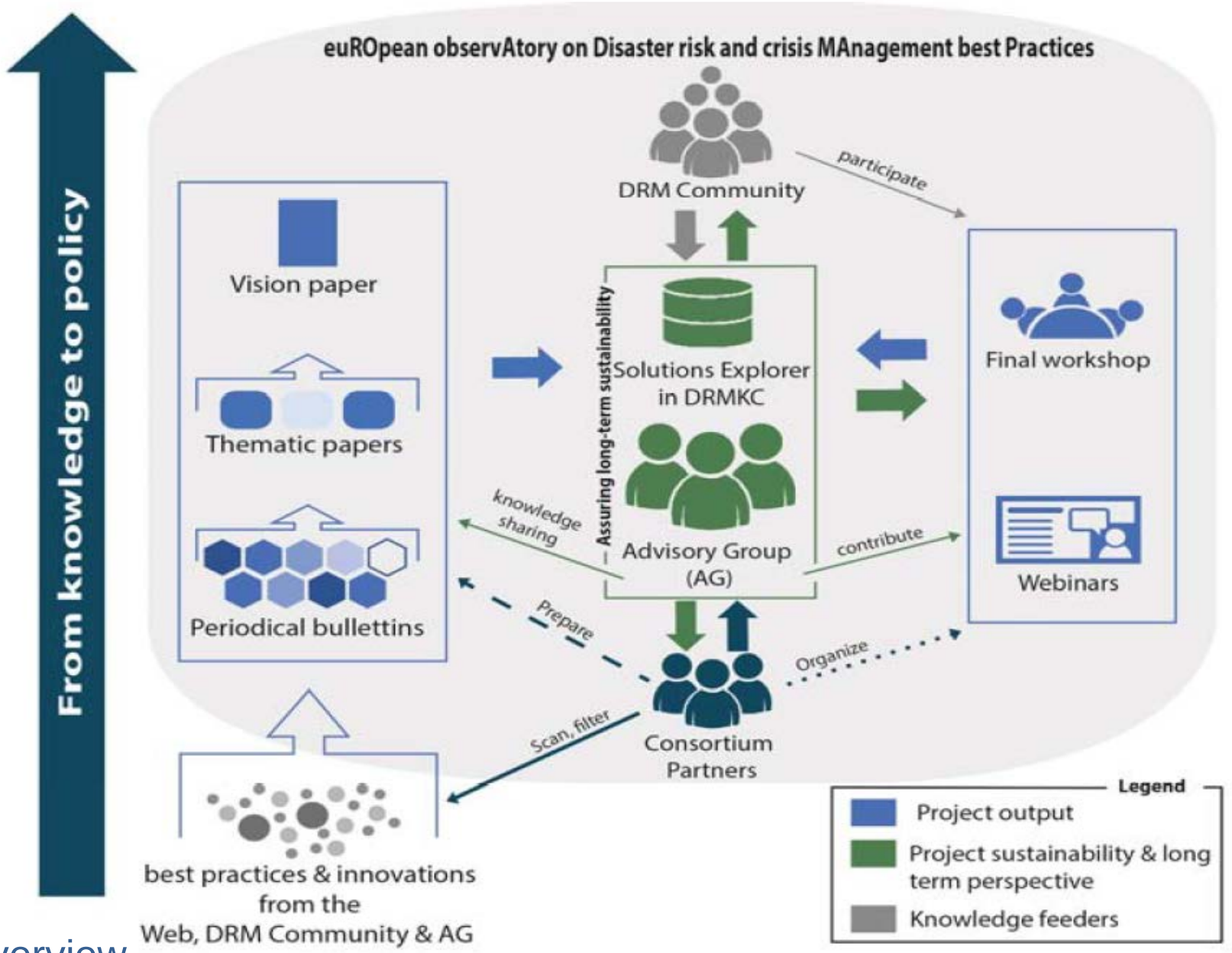


Key aspects:

- **Bottom up approach** for distilling and making sense of knowledge

- **Important role of the Advisory Group** formed by experts both on science and decision making in DRM and of **Networking** activities with DRM community

The ROADMAP Methodology



Bottom-up Approach towards the DOCTRINE

From knowledge to policy

Vision Paper

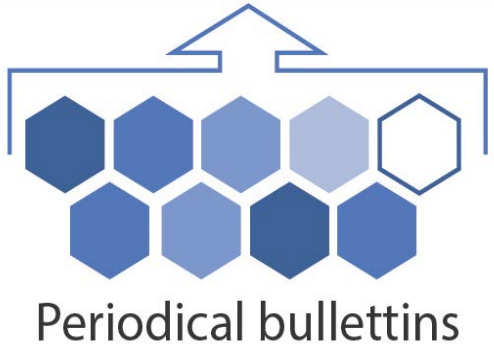
final vision paper for DG-ECHO, dealing with disaster risk and crisis management doctrine



Elaborates and systematizes the results from bulletins and TPs
putting the bases for a
shared European Doctrine on disaster risk and crisis management

3 Thematic Papers (TP) on selected topics

- ✓ Deal with issues related to DRM with a Scenario-based approach
- ✓ Prepared with the aid of experts selected with dedicated calls in DRM community



Periodical Bulletins

- ✓ provide up to date information of good practices and solutions in DRM around Europe and worldwide



Networking & Community of Stakeholders





- ✓ formed by **selected experts** on both science and decision-making in DRM from different Countries
- ✓ covering different risks and phases of DRM cycle
- ✓ Periodical meetings with the ROADMAP AG contribute to:
  - ➢ *discuss challenging issues* related to *good practices*
  - ➢ provide a solid basis for the development of the content of the *thematic papers*
  - ➢ support for the development of the doctrine.

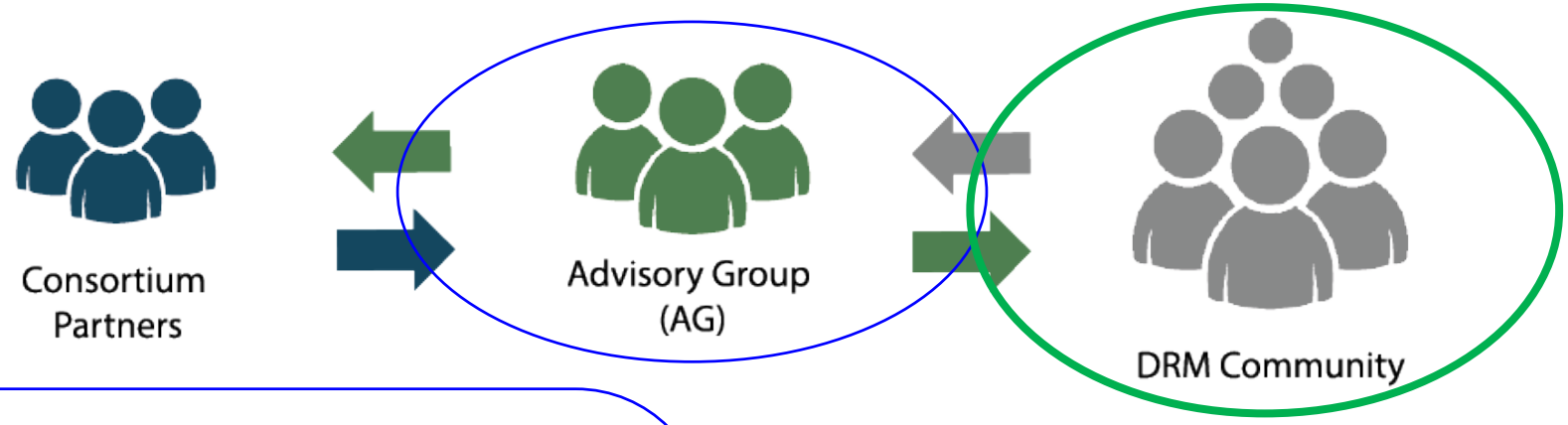
Scientisits

Name	Family name	Institution	Country
Massimo	Cocco	EPOS	EU/Italy
Chris	Burton	GEM	International/US
Gerhard	Wotawa	Aristotle / ZAMG	EU/Austria
Flavia	Riccardo	Istituto Superiore di Sanità	Italy
Lucia	Castro Herrera	IEM – Centre for Integrated Emergency Management Univ. of Agder	Norway
Henrik	Tehler	Lund Univ. Centre for Risk Assessment and Management (LUCRAM)	Sweden
Alexandre	Tavares	University of Coimbra	Portugal
Gavriil	Xantopoulos	DEMETER	Greece
Tiziana	Rossetto	UCL	UK

Decision Makers

Name	Family name	Institution	Country
Andrea	De Guttry	Sant'Anna University of Pisa	Italy
Juliet	Martinez	UNDRR	UNDRR/France
Montserrat	Marin Ferrer	JRC	EU/Spain
Ivar Konrad	Lunde	Emergency manager Bergen Municipality	Norway
Rui	Almeida	ICNF	Portugal
Bengt	Sundelius	Swedish Defence University	Sweden
Peter	Muller	UN – OCHA	UNOCHA

Networking & Community of Stakeholders



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- ✓ **Call for experts** for the thematic papers
- ✓ Dissemination of bulletins and TPs through the network of consortium partners and the AG
- ✓ **Webinars** on selected topics
- ✓ **Solutions explorer** available for use

Webinars

1st Webinar – June 25, 2021

"The nexus between Scientists and Decision Makers in Disaster Risk Management"



✓ More than 200 attendees

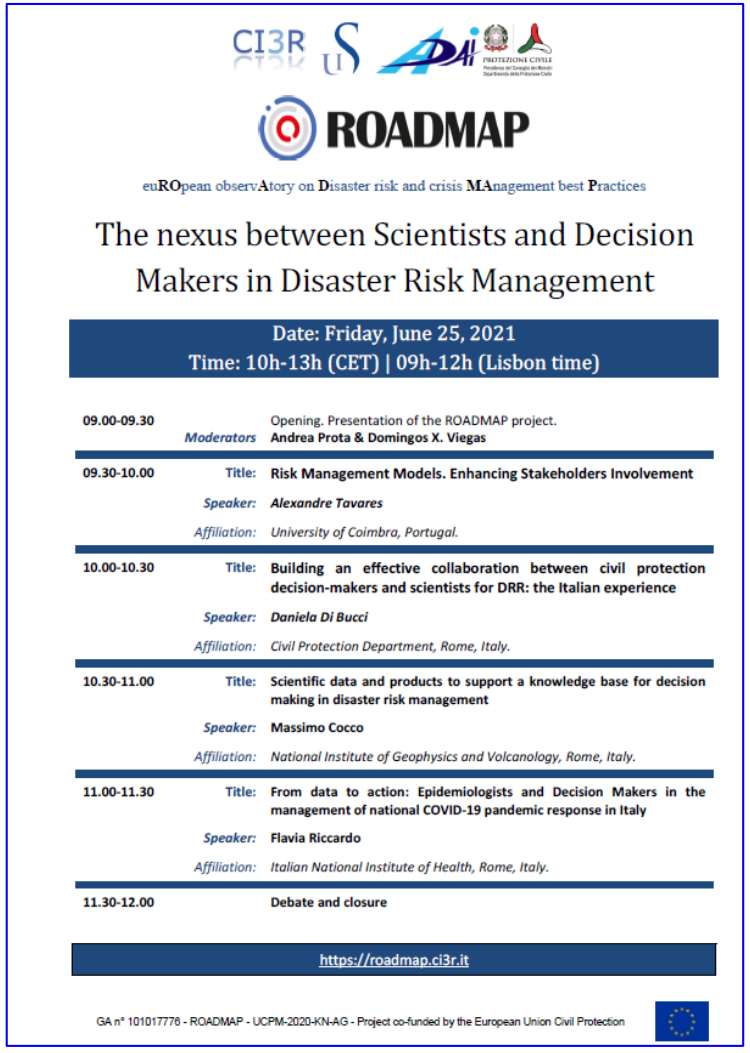
Speakers:

Alexandre Tavares – University of Coimbra, Portugal.

Daniela Di Bucci – Civil Protection Department, Rome, Italy.

Massimo Cocco – National Institute of Geophysics and Volcanology, Rome, Italy

Flavia Riccardo – Italian National Institute of Health, Rome, Italy.



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euROpean observAtory on Disaster risk and crisis MAnagement best Practices

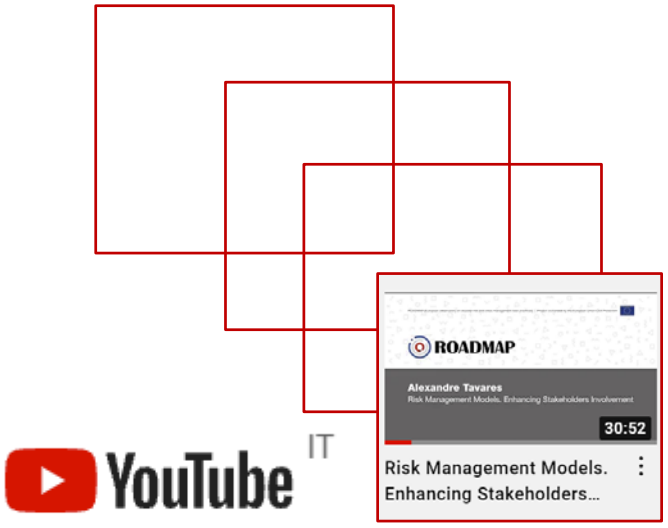
The nexus between Scientists and Decision Makers in Disaster Risk Management

Date: Friday, June 25, 2021
Time: 10h-13h (CET) | 09h-12h (Lisbon time)

09.00-09.30	*Moderators*	Opening. Presentation of the ROADMAP project. **Andrea Prota & Domingos X. Viegas**
09.30-10.00	Title:	**Risk Management Models. Enhancing Stakeholders Involvement**
	Speaker:	***Alexandre Tavares***
	Affiliation:	*University of Coimbra, Portugal.*
10.00-10.30	Title:	**Building an effective collaboration between civil protection decision-makers and scientists for DRR: the Italian experience**
	Speaker:	***Daniela Di Bucci***
	Affiliation:	*Civil Protection Department, Rome, Italy.*
10.30-11.00	Title:	**Scientific data and products to support a knowledge base for decision making in disaster risk management**
	Speaker:	**Massimo Cocco**
	Affiliation:	*National Institute of Geophysics and Volcanology, Rome, Italy.*
11.00-11.30	Title:	**From data to action: Epidemiologists and Decision Makers in the management of national COVID-19 pandemic response in Italy**
	Speaker:	**Flavia Riccardo**
	Affiliation:	*Italian National Institute of Health, Rome, Italy.*
11.30-12.00		**Debate and closure**

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Webinars

2nd Webinar – December 6, 2021

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Webinar on

Communication Challenges in Disaster Risk Management and Crisis Management

6th December 10-12:30 CET

Registration is free, but mandatory, at
https://us06web.zoom.us/webinar/register/WN_zWSOA2IWTH6r0IqUNXYvrA

Agenda

10:00	Opening and brief ROADMAP project presentation	Andrea Prota
10:10	Crisis communication in a post-pandemic world. What lessons the COVID-19 crisis has taught on risk communication, and how they can be applied to disasters and natural risks	Nicola Nosengo
10:45	Advancing Disaster Risk Communications Towards People-Centred Approaches	Iain Stewart
11:20	Listening before we speak: perspectives on preemptive measures for risk and crisis communications	Lucia Castro Herrera
11:55	Wrap-up and general discussion	Domingos Viegas
12:30	Closure	

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CI3R PROTEZIONE CIVILE UIS ADAI

Speakers

Nicola Nosengo	Nicola Nosengo is a science writer and scientific communicator with over 20 years of experience at the national and international level. He has a degree in Communication from the University of Siena and a master in Science Communication from the International School of Advanced Studies (ISAS) in Trieste. In Italy he has contributed, among others, to L'Espresso, La Stampa, Focus, Le Scienze, Mente e Cervello, Il Tascabile, covering technology, physics, space science, robotics and AI, neuroscience. He has been covering Italian science for Nature for many years, and his stories have appeared in The Economist. In addition to his journalistic work, he has worked as a communicator for the Italian Space Agency, the Italian Institute for Astrophysics, and for the Swiss Federal Institute of Technology in Lausanne (EPFL). He wrote three books for the general public and has worked with RAI (Italy's public broadcasting company) for projects and programmes on science and technology. He currently edits Nature Italy, a recently launched digital magazine, part of Springer Nature, focussing on Italian research.
Iain Stewart	Iain Stewart is the El Hassan bin Talal Research Chair in Sustainability at the Royal Scientific Society of Jordan, Visiting Professor in Environmental Studies at Ashoka University, India, and Professor of Geoscience Communication at the University of Plymouth. The founding director of the University of Plymouth's 'Sustainable Earth Institute', Iain's long-standing research interests are in natural hazards, sustainable geoscience, and earth science communication. His geo-communication work has built on a 15 year partnership with BBC television presenting geoscience programmes (notably 'Earth: The Power of the Planet', 'Earth: The Climate Wars', 'How Earth Made Us', 'How To Grow A Planet', 'The Rise of the Continents' and 'Planet Oil') and recently was academic advisor on the BBC's acclaimed landmark series 'Severn Worlds, One Planet'. Awarded an MBE for his services to geography and geology education, he is President of the Royal Scottish Geographical Society, has been Communications Lead for the 'Tomorrow's Cities' urban disaster risk consortium, and is a co-author of the UNDRR Global Assessment Report chapter C3 on Advancing Risk Communication.
Lucia Herrera	Lucia is a PhD candidate in Information Systems affiliated to the Centre for Integrated Emergency Management CIEM at the University of Agder in Norway. Apart from academia, Lucia counts with professional experience in digital communications, crisis management, and process improvement in international, private, and public organizations. She holds an MSc. In Engineering Management with a concentration in crisis, emergency and risk management from The George Washington University, and a BA in Government and International Relations from Universidad Externado de Colombia. Her research interests include crisis, disaster and risk management, support technologies and processes for agile crisis management, logistics, and process improvement. Her dissertation is exploring organizational practices in using social media as a source of information to support crisis management strategies.

3rd Webinar – May 19, 2022

CI3R PROTEZIONE CIVILE UIS ADAI

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Webinar on

CHALLENGES AND OPPORTUNITIES FOR THE FUTURE OF RESEARCH AND PRACTICE IN DISASTER RISK MANAGEMENT

19th May 10-12:30 CET

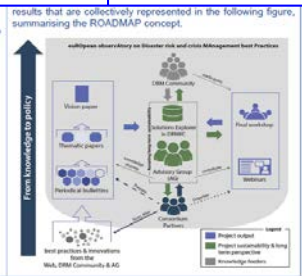
Registration is free, but mandatory, at
https://us06web.zoom.us/webinar/register/WN_hpfEyd4JSZqrPXs

Agenda

10:00	Opening and brief ROADMAP project presentation	Domingos Vi and Andrea CI3R)
10:15	ROADMAP project: Bulletins and Thematic Papers	Giulia Fagà and Claudia
10:35	CRISPRO project - Security and Protection through Knowledge Synergies	Galya Terzie
10:55	ARTION project - Disaster Management Artificial Intelligence Knowledge Network	Panayiotis K UCY)
11:15	ROADMAP project: Solutions explorer	Nicola Rebor (CIMAFOUN
11:35	RESISTANT project: Training and Knowledge Sharing Platform For First Responders and Educational Tools for students' and citizens' awareness and preparedness against Natural and Manmade Disasters and Risks	Kalliopi Krav
12:30	Debate and Closure	Domingos Vi and Andrea CI3R)

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ROADMAP project



ROADMAP

CRISPRO project

We want to introduce a holistic approach of humanitarian and scientific methods in fashion challenging the behavioural ecosystem models of the social, health, pandemic, ecological and cyber impacts.

We aim to build a community around universal tools and approaches/matrix for benchmarking practical guidance to deliver effectively and cross-country preparedness, prevention and response to hybrid hazards.

SECURITY AND PROTECTION THROUGH KNOWLEDGE SYNERGIES

ARTION project

ARTION (Disaster Management Artificial Intelligence Knowledge Network), Jan 2021 – Jun 2022, envisions to become a world-class network for knowledge sharing in the area of artificial intelligence for disaster management that will guide the development and use of AI tools by first responders across Europe. By achieving its strategic objectives ARTION aims to bridge the gap between AI scientists and disaster management experts, build capacity and competency of first responders in the use of AI technology, share knowledge and data, and stimulate further AI research towards application-specific challenges faced throughout the disaster management cycle.

ARTION

RESISTANT project

RESISTANT's aim is to build the first European Crisis Training Platform to train first responders through threefold comprehensive training:

educational training with the state-of-the-art knowledge in safety, including tools for characterisation of hazards and associated risks,

operational training on mock-up real scale transport, and

innovative virtual reality training reproducing the entire accident scenarios, intervention strategies and tactics, including the whole chain of command and communications between all members of the first responders team, facility managers, and public (e.g. volunteer fire fighters, school children, citizens with disabilities).

RESISTANT Crisis Training Platform

SOLUTIONS EXPLORER

✓ **Inspired by the GAPS EXPLORER of DRMKC**



✓ **Solutions explorer is an open-source Web platform** that will host good practices in DRM available at different governance levels (local, regional, national and international)

✓ The platform will allow to search and browse for good practices and solutions in DRM

✓ It could be a database interoperable with the DRMKC resources (e.g., Gaps Explorer), with easy access to basic data and experiences in the field of DRM starting from National Risk Assessment available.

✓ It will be available to project partners and stakeholders (JRC), EC (DG-ECHO) and eventually opened to the general public at the end of the project.

ROADMAP

From knowledge to policy

Thanks for your attention

mapolese@unina.it

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ROADMAP products
The Bulletins

Giulia Fagà – CI3R
Emiliya Hamidova, Alberto Gotti

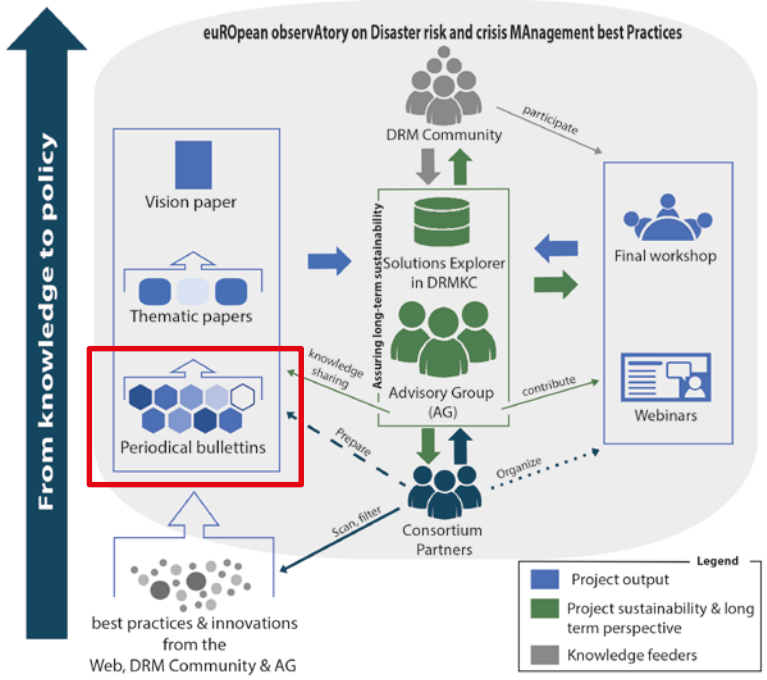
ROADMAP Final Workshop

June 10th, 2022

Project Co-funded by the European Union Civil Protection GA 101017776

Goals

The bulletins are the results of the constant scanning of good practices in DRM, news & innovations performed on the web, also based on suggestions/supporting material from the Advisory Group.





Structure

Brief documents (few pages), which had to report the result of an initial selection of good practices.

In each publication we have collected good practices relating to the management of an emergency in a multi-risk perspective.

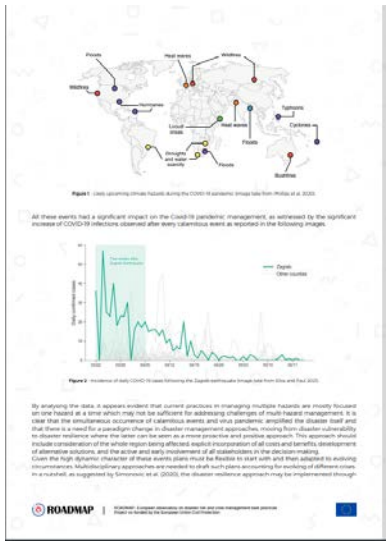
Main structure

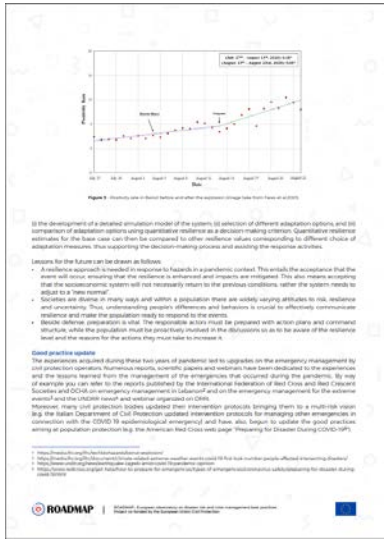
- ROADMAP in a nutshell
- Project updates
- Risks – Good practices
  - Introduction to the topics
  - Good Practicies
- DRM Initiatives & News

DOI
Website page: https://roadmap.ci3r.it/publications/











Topics

The topics of the bulletins

- 1st bulletin: Learn about the ROADMAP Project and its next steps
- 2nd bulletin: The impact of the pandemics on emergency management
- 3rd bulletin: Forest fires emergency management and associated risks
- 4th bulletin: Management of the floods and landslides risk
- 5th bulletin: Management of volcanic eruptions and the associated risks
- 6th bulletin: Management of climate change and food supply
- 7th bulletin: Management of industrial accident and environmental pollution
- 8th bulletin: ROADMAP project results

Bulletins data selection



- Scientific papers
- Scientific reports
- CP protocols
- Humanitarian networks
- Governative websites

- Tools
- Websites
- Research projects
- Documents

- Best practices
- Lessons learnt
- Recommendations
- Guidelines

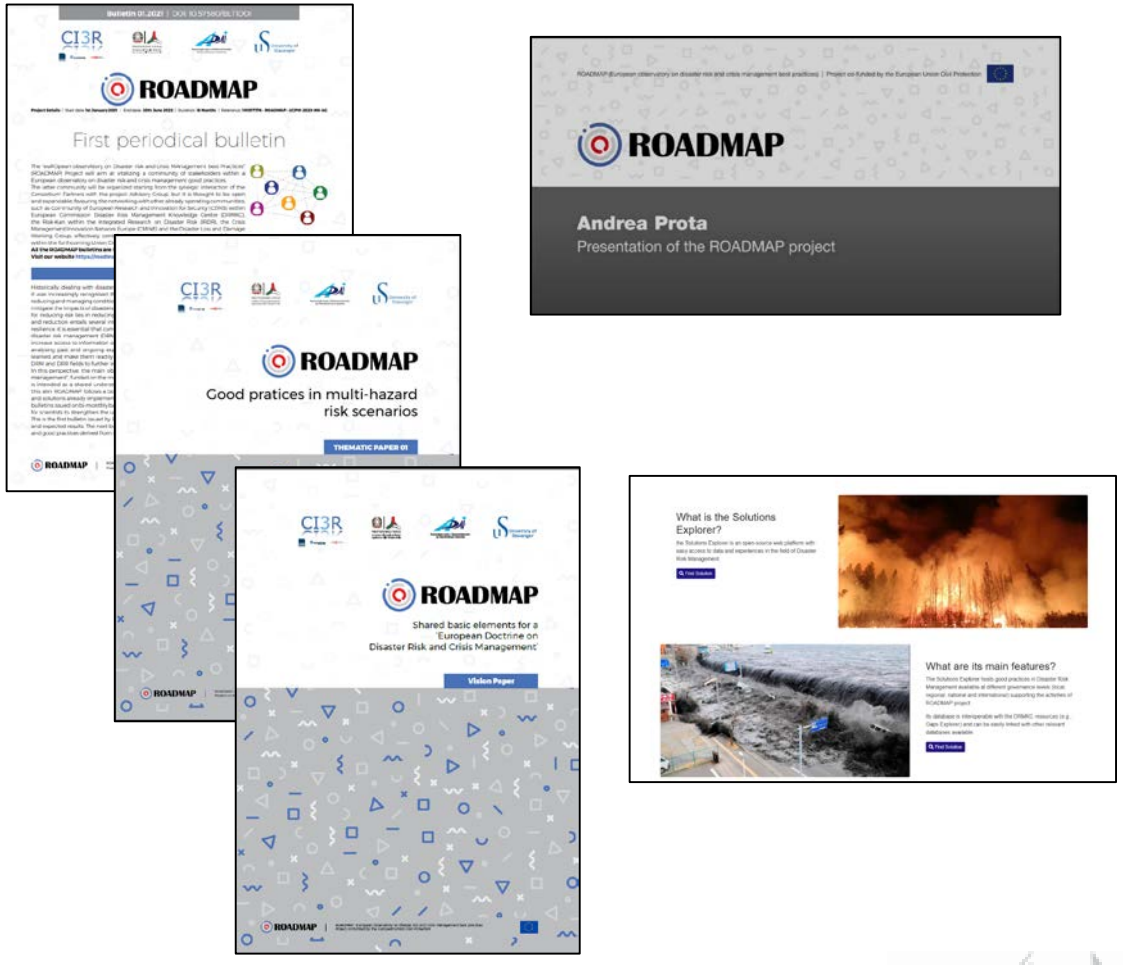
The bulletins include abstracts and references of the documents in which the GPs can be found.

1st and 8th bulletin

Learn about the ROADMAP Project and its next steps



ROADMAP project results



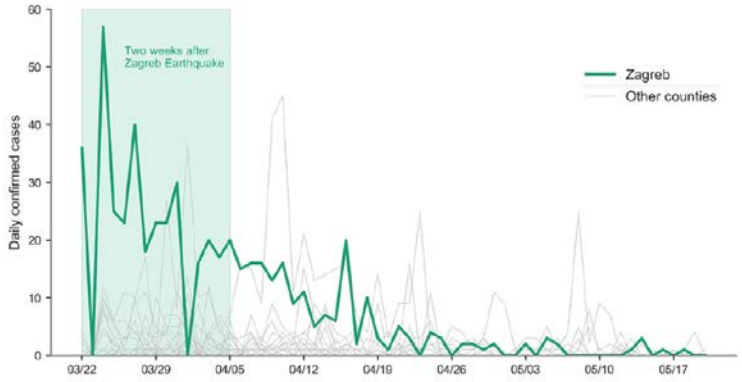
2nd Bulletin

Published Sept. 2021

The impact of the pandemics on emergency management

Globally, during 2020 and the first half of 2021:

- 70 nations were affected by flooding,
- 203 earthquakes of magnitude greater than 6,
- 1 explosion of huge size
- 51.6 million people suffered damage related to extreme climatic events



Incidence of daily COVID-19 cases following the Zagreb earthquake (image take from Silva and Paul 2021)

Source of data:

- The International Federation of Red Cross and Red Crescent Societies – report on Beirut explosion
- United Nations for Disaster Risk Reduction – report on Zagreb earthquake
- American Red Cross - memorandum for preparing for Disaster During COVID-19
- Italian Civil Protection Department - update of the intervention protocols for managing other emergencies in connection with the COVID emergency

3rd bulletin

Published Nov. 2021

Forest fires emergency management and associated risks

Only in 2021 the world was hit hard by extensive forest fires; Italy, Greece, Turkey, Spain, France, Lebanon, Syria, Siberia, Canada, California are just some of the Countries overwhelmed by this emergency.

Source of data:

- NSW Department of Planning and Environment
- CAL FIRE
- CDP Europe
- European Commission
- Austin city website
- New Jersey Forest Fire Service
- NEDIES Project
- Anifog Project
- Project #SIQUAKE2020



4th bulletin

Published Dec. 2021

Management of the floods and landslides risk

According to the IPCC (IPCC 2021), both the probability and the consequences of floods and landslides are expected to increase in the coming decades, as a result of climate change and increased vulnerabilities and exposure, especially in urban areas.

Source of data:

- European Commission
- Asian Disaster Preparedness Center
- GOV.UK
- U.S. Department of the Interior
- National Park Service
- Technical Preservation Services
- Oppla repository
- PHUSICOS Project



5th bulletin

Published Feb. 2022

Management of volcanic eruptions and the associated risks

Globally, it is estimated that more than 600 million people live in areas susceptible to volcanic hazards alone. Volcanic activities and associated wildfires affected 6.2 million people and caused nearly 2400 deaths between 1998-2017. With a growing population living in volcanically vulnerable areas, it is likely that in the future more people will be affected by volcanic eruptions.

Source of data:

- University of Iceland
- USGS
- Japan metereological agency
- UNESCO
- FUTUREVOLC project
- Italian Civil Protection Department



6th bulletin

Published Apr. 2022

Management of climate change and food supply

There is growing evidence of negative impacts caused by climate change on human health worldwide. These impacts are being experienced also in EU (EASAC, 20191; Hobbhahn et al. 20192), and the negative effects of climate change on food systems and food web are a critical part of the global impacts on human and planetary health (Mbow et al., 2019).

Source of data:

- World Bank
- FAO
- Slovenian Environmental Agency
- United States Department of Agriculture
- UNCCD
- World Meteorological Organization
- Integrated Drought Management Programme



7th bulletin

Published May 2022

Management of Industrial accident and environmental pollution

Overall, World Health Organisation estimated 65,000 people died due industrial accidents between 2009 - 2018 causing also significant environmental pollution and massive economic loss.

Source of data:

- UNECE
- European Commission
- Organisation for Economic Co-operation and Development (OECD)
- UNISDR
- INCLUDING project



Issues

- **GPs or lessons learnt or recommendations?**
  What is what ...
- **Terminology**
  No common DRM vocabulary
- **How to organize the material**
  Heterogeneous information sources need to be joined together
- **Lack of ex-post reports**
  Few agencies in the field provide this information
- **How to reach audience**
  Local disaster managers often are not reached by these publications

How to share the material

Are referenced documents really accessible?



Future developments

- Define the difference between GP, lessons learned and recommendations
- Define a common terminology
- Create a single "point of access" to share information on the collected materials
- Reach the audience(s) by translating the products into multiple languages
- Better involvement of decision makers in research



ROADMAP

From knowledge to policy

Thanks for your attention

giulia.faga@eucentre.it

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ROADMAP project
Thematic Papers

Claudia Morsut – University of Stavanger Norway

ROADMAP Final Workshop

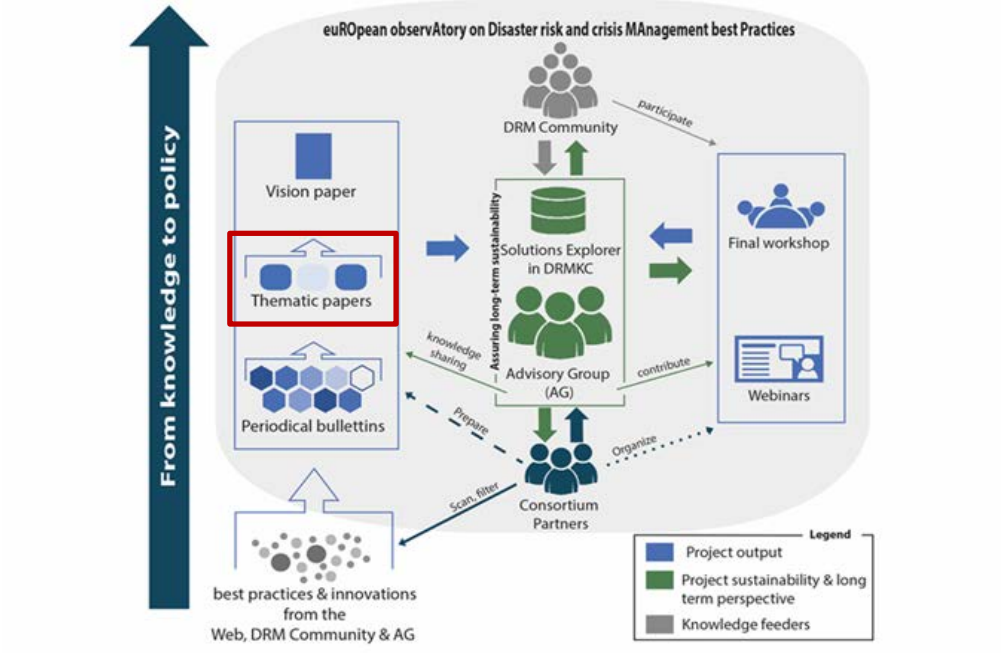
June 10th, 2022

Project Co-funded by the European Union Civil Protection GA 101017776

Thematic Papers

TASK3.2:

- selection of relevant topics in the DRM field to provide a review of good practices existing in the EU countries (and also outside the EU)
- supported by the ROADMAP Advisory Group
- external experts invited with dedicated calls for contribution
- reiteration process with members of the consortium and the ROADMAP Advisory Group





Thematic Papers Topics

Three thematic papers based on three selected topics:

- Thematic Paper 1: Good practices in Multi-Hazard Risk Scenarios
- Thematic Paper 2: Good practices in Risk and Crisis Communication
- Thematic Paper 3: Good practices in Building Back Better and Leaving No One Behind

Thematic Papers Structure

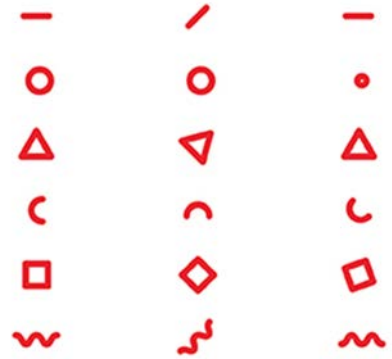
- Stand-alone documents (30 pages, excluded references)
- Three publications
- Target audience: decision makers, scientific community, risk and crisis mangers
- Multi-risk perspective
- Scenario-based approach
- Sendai Framework as the guideline to categorise the GPs



Thematic Papers data selection







- Scientific papers
- Scientific reports
- Research projects
- EU website
- National governments' websites

- Sendai Framework

- Good practices

How to analyse good practices?

Methods and techniques that are applied to solve existing problems producing effective results and bringing benefits to the users (Trucco et al., 2015)

Sendai Framework

- Priorities and Targets in TP1
- Criteria extrapolated from the articles in TP2 and TP3. For example: *EVALUATION CRITERION 1: Location-based risk data GPs in risk and crisis communication should include the collection and dissemination to a wide audience and in an appropriate format of location-based risk data, also by the leveraging of new information and communication technologies, including GIS*

Open issues

- **GPs or lessons learnt or recommendations?**
  What is what ...
- **Terminology**
  No common DRM vocabulary
- **How to organize the material**
  Heterogeneous information sources need to be joined together
- **Lack of ex-post reports**
  Few agencies in the field provide this information
- **How to reach audience**
  Local disaster managers often are not reached by these publications
- **Science - policy divide**
  Thematic Papers for both audiences

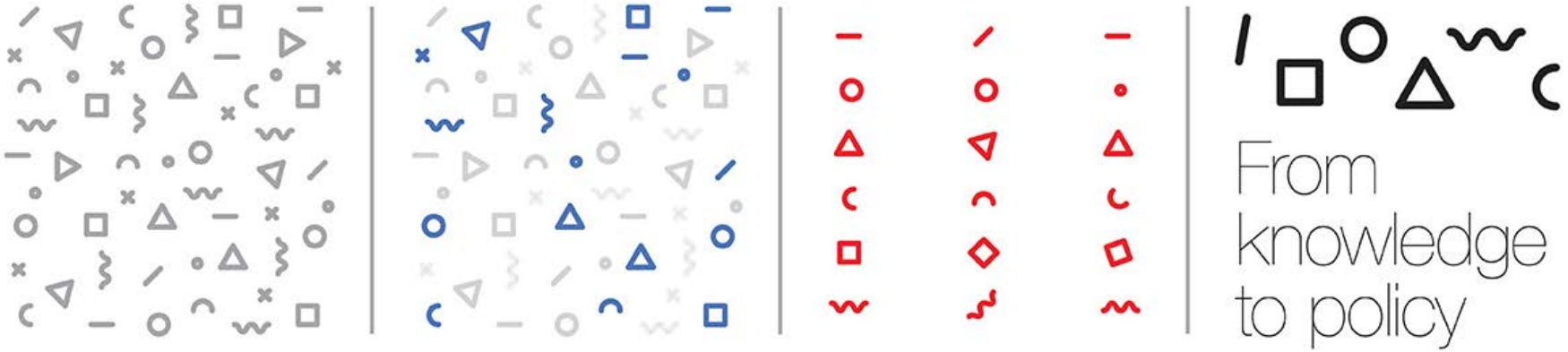


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- Reach the audience(s) by translating the products into multiple languages
- Better involvement of decision makers in research



ROADMAP



Thanks for your attention

claudia.morsut@uis.no

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euROpean observAtory on Disaster risk and crisis MAnagement best Practices

PROTEZIONE CIVILE
Presidenza del Consiglio dei Ministri
Dipartimento della Protezione Civile

The Vision Paper

Daniela Di Bucci – ICPD

ROADMAP Final Workshop

June 10th, 2022

Project Co-funded by the European Union Civil Protection GA 101017776

Table of Contents

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1. FOREWORD

2. TOWARD A EUROPEAN DOCTRINE ON DISASTER RISK AND CRISIS MANAGEMENT

3. A FUTURE PERSPECTIVE

PART II - BACKGROUND DOCUMENT

4. METHODOLOGY

5. RESULTS

PART III

KEYWORDS

ACRONYMS

REFERENCES

APPENDIXES

Shared basic elements for a 'European Doctrine on Disaster Risk and Crisis Management'

-

The ROADMAP Vision Paper

Introduction

"*The vision paper, elaborating and systematizing the findings from thematic papers, shall put the baselines for the creation of a shared European '**Doctrine on disaster risk and crisis management**', also evidencing the research needs and possible actions to promote*".

VP aim: to frame the activities aimed at building an EU DRM doctrine in a longer-term perspective.

- What has been achieved so far **represents a blueprint, the realisation of which still requires some steps** to be taken.
- The VP is also intended to **provide DG-ECHO with recommendations** on possible longer-term initiatives, which would enable the full development of a DRM doctrine within the KN.

Overarching goal: the work will help in the KN-related activities that DG-ECHO and JRC are planning and implementing.

Definition

The content of the ROADMAP project stems from the concrete experience of those who work in the field of CP and have to make decisions every day for DRM:

→ local, national, European and international levels
→ whole DRM cycle

These decision-making activities, although characterised by specific elements, are often the response to similar situations and challenges:

→ need for a shared understanding of different cases that may occur and solutions already identified and successfully adopted
→ good practices (GP) that decision-makers can refer to when making their choices
→ benefit significantly from a solid scientific knowledge basis

In the ROADMAP project, the "*doctrine is intended as a shared understanding of disaster management between decision-makers and scientific actors*":

→ the VP provides a first shared understanding between two communities: civil protection decision-makers and scientists/academics

Why and for whom

Rationale and motivation

UCPM is moving towards a shared approach to DRM and crisis management

→ **common vision of reference values**, objectives to be achieved and implementation methods

→ **coordination of activities** carried out **at different territorial levels** of governance while respecting the differences and autonomies of the various local, national and European CP Authorities

This approach is particularly important in order to better manage risks and crises that affect several countries at the same time, and especially to prevent and be prepared for possible multi-risk disasters.

Despite the national differences, common traits and approaches can be highlighted among all Participating States

→ they **emerge** from the operational experiences and lessons learned at both national and EU level

The KN is a place supporting this collaborative approach, both conceptual and physical

→ civil protection practitioners and stakeholders can **find, share and comment** experiences and GPs

→ a CP doctrine can be **built and nurtured** by all stakeholders through shared understanding of DRM

Why and for whom

Potential beneficiaries of the doctrine

Main beneficiaries → the two communities that have contributed to define this shared understanding, i.e., **scientists/academics** and **civil protection decision-makers**, along with the so-called "**hybrid experts**", who act as an interface between them.

Other potential beneficiaries → technical community of **professionals**, **mass media**, **judiciary**, and even **citizens**. All of them can be part of the process.

Some **challenges** need to be taken into account:

- → scientists/academics and civil protection decision-makers do not share a common language yet. In some European countries, these two communities have a relatively long experience of working together and have reached a good level of understanding, in some others this is still developing;
- → the sharing of a common vision of values and objectives is still to be achieved, despite of the guiding principles of the EU.

Proposed doctrine → first step to overcome these challenges → a great deal of joint work still needed to reach a shared understanding of DRM →consistently implemented by all the actors involved.

A “roadmap” for moving ahead

Ultimate goal of the activities developed in ROADMAP:

→ future release of the products developed as a regular service within the KN (regular bulletins, thematic papers published from time to time, a Solutions Explorer continuously updated and consulted).

→ products supported by an expert group/forum that facilitates interaction stakeholders/end-users.

After the end of this project, some **steps** are still necessary to achieve this final goal → in 18-24 months.

- **A more effective organisation of the AG's activities**. In some cases, it was not easy for the project to formulate requests in such a way that the AG could best provide its expert advice. In addition, in some cases, it was difficult to keep up the involvement of individual experts, both scientists/academics and decision-makers, throughout the project. These issues need to be analysed and resolved if the AG is to become a permanent structure serving the KN.
- **The involvement of other actors** that are part of the DRM community deserves dedicated attention and consideration as a further step in the work, through a sharper focus on which type of expertise is needed and for which purpose.

A “roadmap” for moving ahead

- **The design and development of a dedicated bulletin writing area within the KN**. In the project, this activity included the search and selection of GPs to be described in each bulletin but, in the future, the same GPs can be transferred into the Solutions Explorer database, which is the GPs repository. Bulletins will serve as a canvas where to register most recent GPs which will become part of the Solutions Explorer. The spread of information could also take advantage from translation in multiple languages and direct distribution to the interested communities.
- **The development of an editorial project for the regular publication of thematic papers** on topics of interest. Support for this activity could be provided by the JRC, together with the AG.
- **The full implementation of the Solutions Explorer in the KN platform**. This activity requires close cooperation with DG-ECHO, both with regard to the final aims and design of this tool, including guidelines on the contents and on how to identify, select and evaluate good practices using ad hoc indicators, and with regards to ICT issues.

Recommendations

- Recommendations outlined for DG-ECHO.
- Conceived as starting points for reasoning on the possible development of the doctrine within the European Union Civil Protection KN.
- Summarised in a schematic list, but → must be seen as a system of interlinked activities that need to be carried out in a synergic and integrated manner.

Recommendations

1 - Importance of an integrated community of experts

The support of a community of (CP decision-makers and scientists/academics) has proved to be effective in building a shared understanding of disaster risk and crisis management. ROADMAP **AG** → first nucleus to develop a wider community of experts. **Selection criteria** set up by the project.

- **Scientists/academics** → fields of expertise including data collection, instrumental monitoring, forecast, modelling, scenarios, hazard, physical vulnerability, social vulnerability, exposure and risk, as well as legal issues and communication. Different risks organised in groups: geological, hydrological, meteo-climatological, biological, anthropogenic risks, etc., including cascade effects.
- **CP decision-making experts** → field of expertise including prevention, preparedness, response, recovery and “BBB", DRR and DRM communication, national regulations and laws, ICT and logistics, education and training, use of European funds, etc. Different levels of governance: local, EU, …
- Good balance in gender and geographical distribution.

The gradual broadening of this community implies an **organisational effort to design and manage the active contribution of participants**.

Recommendations

2 – Need of an EU observatory of good practices

A tool like the Solutions Explorer should be part of the KN and be the forum for interaction between stakeholders familiar with GPs. It could be

→ the virtual place where the DRM doctrine, i.e., the shared understanding on DRM, is built following a bottom-up approach and managed following a top-down approach

→ a common reference point to both store and continuously look for GPs

The experience of the collection of GPs clearly shows that

→ those who design, implement, test and use these practices are best placed to make an initial assessment of their effectiveness and potential applicability to similar cases

→ their involvement in populating a tool such as the Solutions Explorer is of great value in developing a shared DRM doctrine

Recommendations

3 – National observatories

The implementation of similar approaches and tools for the collection and analysis of GPs should be **promoted and supported in all EU Member and Participant States, also through the EU financing tools already in place** (e.g., Prevention and Preparedness Projects in Civil Protection - Track 1) → this would give a major boost to a widespread development of GPs collection.

The European and national levels could be integrated, in order to optimize the collection and consultation of GPs. The ROADMAP project has proposed one approach based on the Sendai Framework.

An experience at this level is being developed in Italy. In this country, the Civil Protection Code (Legislative Decree 1/2018) states that the Civil Protection Department performs tasks of national importance, such as guiding, promoting and coordinating the activities of central and peripheral State administrations, of the regions and local levels, and of public or private institutions and organisations, also through the activation of an observatory on good practices in civil protection activities.

Recommendations

4 – Involvement of other participants in the construction of the doctrine

ROADMAP has made it possible to **lay the foundations** for the construction of a shared DRM doctrine, but there are **still numerous aspects to be dealt with**, e.g., the involvement of other actors: NGOs, media, industry, citizens, etc. → **DG-ECHO could encourage and steer these further developments** through new calls in the same vein as that through which the ROADMAP project was funded.

On the one hand, it is necessary to **set up parallel paths of involvement of these other actors** in the doctrine-building process.

On the other hand, it is necessary **from the outset to have an overview of the necessary interactions** between these participants and the best way to foster and benefit from the integration of these figures and competences, in order to develop a shared DRM understanding.

Recommendations

5 – Development of research based on a multi-hazard risk approach

The in-depth studies conducted within the project highlighted the **limited amount of research on the development of scenarios and risk models based on a multi-hazard risk approach**. This area of research is clearly transdisciplinary, including both the scientific/academic expertise (STEM, economic and social sciences, law, communication, etc.) and the knowledge that decision-makers and civil society as a whole can provide.

This can be **partly pursued by DG-ECHO**, by directing part of its research funding in this direction.

But even more so we suggest that **DG-ECHO encourages the various relevant Directorates-General** of the EC **to issue calls** for the development of research projects on these specific topics.

Among the possible topics → the development of European and national **multi-hazard risk models**, the study of **cascade effects** and their cumulative impact, or the **integration of the social vulnerability** into multi-hazard risk analyses. The AG issued within the ROADMAP project could help in identifying and circumscribing some promising research areas in the field of multi-hazard risk.

Recommendations

6 - A common high-level civil protection education and training

The High Education Institutions provide an invaluable service by **training future researchers and professionals** with a high degree of knowledge and specialization. These individuals will later work in the entire DRM cycle → they should be trained to work as part of a team in a larger network.

A **common high-level education path** for civil protection decision-makers and researchers, at national and EU levels, **should be developed** to guarantee some commonality in the syllabus and a shared understanding of the DRM doctrine, supported by research and innovation.

This activity would benefit from the **identification of a shared vocabulary**, the definition of a **common background** and the **exchange of education and training experiences**. Initiatives aimed at developing these objectives could be addressed, promoted and monitored within the KN, as far as possible in cooperation with the Member States, again following a bidirectional approach, bottom-up and top-down.

Final remarks

- **The synergic collaboration** process between the ROADMAP consortium, the DG-ECHO and the JRC, **has proven to work** effectively and to aim at shared common goals.
- The project partners consider the **experience gained** as **an added value** to their own competences and fields of knowledge.
- The ROADMAP consortium thanks DG-ECHO for the opportunity to work on these relevant topics and wishes that this **fruitful collaborative process could continue** after the end of the project.

ROADMAP

From knowledge to policy

Thanks for your attention

daniela.dibucci@protezionecivile.it

ROADMAP

euROpean observAtory on Disaster risk and crisis MAnagement best Practices

ROADMAP project Advisory Group

Domingos Viegas – ADAI – University of Coimbra, Portugal

ROADMAP Final Workshop

June 10th, 2022

Project Co-funded by the European Union Civil Protection GA 101017776

Advisory Group – rational and main objective

AG:

- Formed by selected experts on both science and decision-making in DRM, covering different risks and phases of DRM cycle;
- From different Countries and from relevant Institutions and networks;

Main objective:

- To support and advise the ROADMAP Consortium in its activities, providing further background information and experts' opinion.

Composition of the Advisory Group

SCIENTISTS			
Name	**Family name**	**Institution**	**Country**
Massimo	Cocco	EPOS	Italy
Chris	Burton	GEM	USA
Gerhard	Wotawa	Aristotle/ZAMG	Austria
Flavia	Riccardo	ISS	Italy
Lucia	Castro Herrera	IEM	Norway
Henrik	Tehler	LUCRAM	Sweden
Alexandre	Tavares	UC	Portugal
Gavriil	Xantopoulos	DEMETER	Greece
Tiziana	Rossetto	UCL	UK
DECISION MAKERS			
Name	**Family name**	**Institution**	**Country**
Andrea	De Guttry	SSSA	Italy
Sebastian	Penzini	UNDRR	France
Montserrat	Marin Ferrer	JRC	Spain
Ivar Konrad	Lunde	EM at Bergen Municipality	Norway
Rui	Almeida	ICNF	Portugal
Bengt	Sundelius	SEDU	Sweden
Peter	Muller	UN-OCHA	UNOCHA/ The Netherlands

Advisory Group – role

The role of the Advisory Group

- To advise in activities, namely of good practice collection and systematization;
- To give support for the critical review of the good practices and solutions already existing in the EU countries;
- To give support for the selection of topics and preparation of the (three) Thematic Papers;
- To give advise for the structuring and contents of the Thematic and Vision Papers.
- To facilitate networking activities with the broader community of experts and practitioners for DRM.

Advisory Group – meetings

Meetings	Held on	Topics
1st	April 28, 2021	ROADMAP and tour the table presentation
2nd	September 22, 2021	Project activities: Thematic Papers 1, 2 and 3
3rd	November 22, 2021	Project activities: Update on Thematic papers and the 2nd ROADMAP webinar
4th	February 16, 2022	Project activities: Update on Thematic papers and Solutions Explorer and Vision Paper

Advisory Group – 1st meeting - agenda

ROADMAP | 1st AG meeting

Aprile 28 – from 15 to 18 (Italian time) (About 3 hours: 2:30' planned below; 30' for any connection problems or other critical issues)

https://global.gotomeeting.com/join/231525021

Time	Duration	Title	Speaker	Contents
15:00 - ...	20'	Welcome and tour de table	Prota	The AG components are invited to introduce themselves to the colleagues
	20'	The Roadmap Project	Prota	Partnership Aims of the project (doctrine, etc.) Tools to build up the doctrine (bulletins, thematic papers, ...)
	20'	Role of the AG in the project	Viegas	Summary from AB part (already resumed in the pdf sent to the AG members)
	10'	Bulletins and expected contribution from the AG	All	During the meetings and "at home"
	10'	Thematic papers and expected contribution from the AG	All	During the meetings and "at home"
	10'	Website Webinars and expected contribution from the AG	All	During the meetings and "at home"
	10'	Vision paper and expected contribution from the AG	All	During the meetings and "at home"
	30'	Guided brainstorming on how to build a European "Doctrine on disaster risk and crisis management"	Dolce	Reasoning altogether. The AG components could contribute on what is needed to create the doctrine on the basis of their field of expertise
	10'	AOB	All	Practical questions from the AG, and any other business in general
... - 18:00	20'	Wrap up and conclusion	Prota	Next meetings, etc.

Advisory Group – 2nd meeting - agenda

ROADMAP ADVISORY GROUP | 2nd MEETING - ONLINE

September 22, 2021 – 15:00 – 18:00

Agenda:

1. Opening
2. Round of the Table
3. Brief presentation on Project Activities
4. Presentation of the TP 1
5. Brainstorming on the content for TP 2 and TP 3
6. Future activities

Advisory Group – 3rd meeting - agenda

ROADMAP ADVISORY GROUP | 3rd MEETING - ONLINE

November 22, 2021 – 15:00 – 18:00

Agenda:

1. Update on project activities
2. Brief update on Thematic Paper 1
3. Contents of Thematic Papers 2 and 3
4. Communication in DRM
5. Good practices in “Building back better” and “Leave no one behind”
6. 2nd ROADMAP Webinar
7. Future Activities

Advisory Group – 4th meeting - agenda

ROADMAP ADVISORY GROUP | 4th MEETING - ONLINE

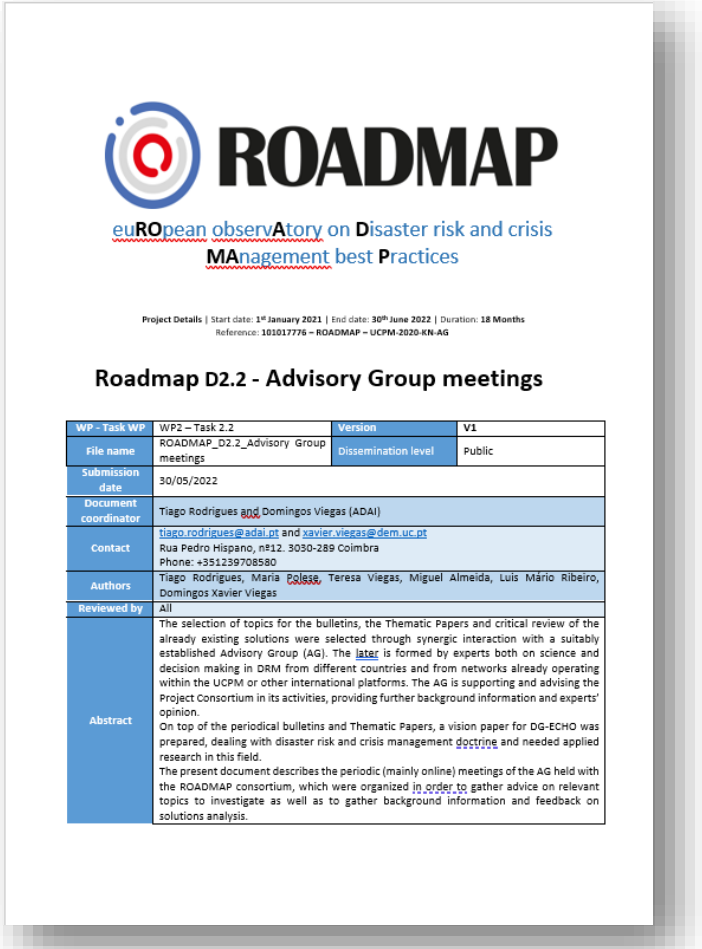
February 16, 2022 – 15:00 – 17:30

Agenda:

1. Update on ROADMAP project activities (by A. Prota)
2. Update on the Thematic Papers (TP 3) (by C. Morsut)
3. Update on the Solutions Explorer (by N. Rebora)
4. Update on the Vision Paper (by D. Di Bucci)

Advisory Group – D2.2 on AG meetings

- All information collected during AG meetings is available in D2.2;



ROADMAP

euROpean observATory on Disaster risk and crisis MANagement best Practices

Project Details | Start date: 1st January 2021 | End date: 30th June 2022 | Duration: 18 Months
Reference: 101017776 – ROADMAP – UCPM-2020-KN-AG

Roadmap D2.2 - Advisory Group meetings

WP - Task WP	WP2 – Task 2.2	Version	V1
File name	ROADMAP_D2.2_Advisory Group meetings	Dissemination level	Public
Submission date	30/05/2022		
Document coordinator	Tiago Rodrigues and Domingos Viegas (ADAI)		
Contact	tiago.rodrigues@adai.pt and xavier.viegas@dem.uc.pt Rua Pedro Hispano, nº12. 3030-289 Coimbra Phone: +351239708580		
Authors	Tiago Rodrigues, Maria Polese, Teresa Viegas, Miguel Almeida, Luis Mário Ribeiro, Domingos Xavier Viegas		
Reviewed by	All		
Abstract	The selection of topics for the bulletins, the Thematic Papers and critical review of the already existing solutions were selected through synergic interaction with a suitably established Advisory Group (AG). The later is formed by experts both on science and decision making in DRM from different countries and from networks already operating within the UCPM or other international platforms. The AG is supporting and advising the Project Consortium in its activities, providing further background information and experts' opinion. On top of the periodical bulletins and Thematic Papers, a vision paper for DG-ECHO was prepared, dealing with disaster risk and crisis management doctrine and needed applied research in this field. The present document describes the periodic (mainly online) meetings of the AG held with the ROADMAP consortium, which were organized in order to gather advice on relevant topics to investigate as well as to gather background information and feedback on solutions analysis.		

Main achievements

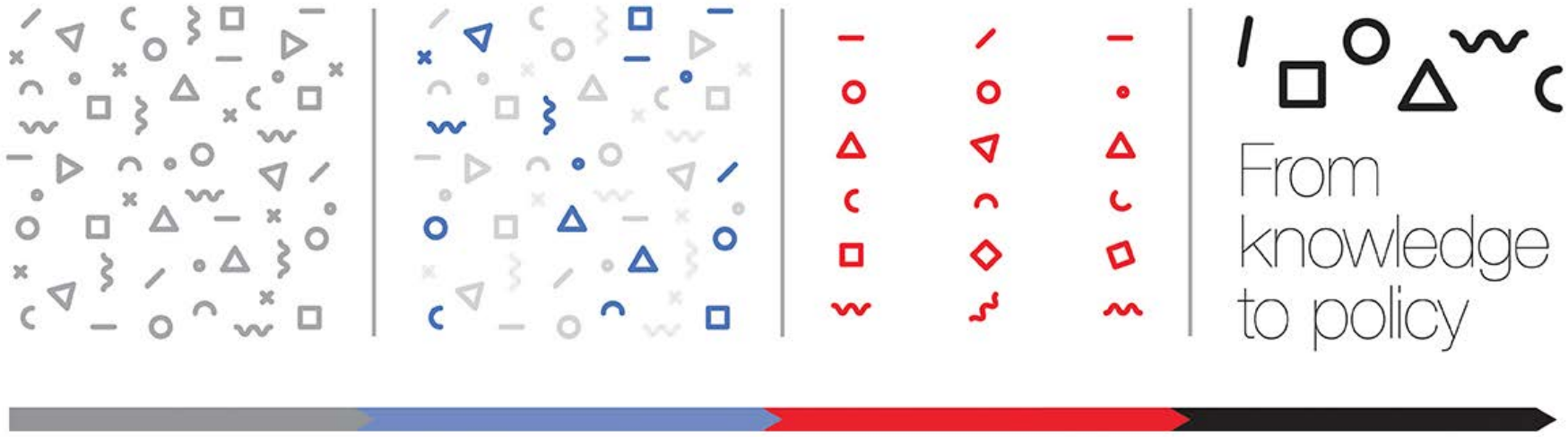
•The AG provided great insights and helped the revision the Thematic and Vision papers

•The Meetings were very fruitful to guide and better design the ROADMAP activities

Interesting approach to identify relevant topics as well as gaps and identify GPs

•The AG contributed to the improvement of all ROADMAP activities and outcomes

ROADMAP



Thanks for your attention

xavier.viegas@dem.uc.pt

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CEIF - Forest Fire Research Centre
ADAI - Association for the Development of Industrial Aerodynamics
UC - University of Coimbra

ROADMAP

euROpean observAtory on Disaster risk and crisis MAnagement best Practices

ROADMAP project
The Webinars

Tiago Rodrigues – ADAI – University of Coimbra, Portugal

ROADMAP Final Workshop

June 10th, 2022

Project Co-funded by the European Union Civil Protection GA 101017776

Main objectives

- To share and collect **relevant knowledge** and **perspectives**, including **good practices** and lessons learnt in DRM;
- To discuss **relevant topics** that serve both the project and the wider **DRM community** of **stakeholders and** other **EU projects**;
- To reach a wider audience, helping to exploit and disseminate **ROADMAP project**;

Main challenges and risks

- Development of project activities under a **pandemic context caused by COVID-19**
- The increasing number of **online events**, including meetings and webinars
- Decreased efficiency of **dissemination channels**
- Decreased participation and interest from **DRM community**
- **Technical issues** that may arise when organizing online events

Webinar organization and dissemination

- Up to 3 hours, including a debate period of 30';
- Between 4-6 Speakers;
- Use of Zoom platform;
  - Save the date plus several reminders;
  - Certificate of participation (attending > 60');
- Dissemination tools:
  - ROADMAP project;
  - Consortium partners and AG networks;
  - Others: namely through the networks of other EU projects;



CI3R

ROADMAP

enROpean observAtory on Disaster risk and crisis MAnagement best Practices

CERTIFICATE OF ATTENDANCE

This is to certify that *Tiago Rodrigues* has attended the Webinar "***Challenges and opportunities for the future of research and practice in Disaster Risk Management***", that was held online on May 19th, between 10AM and 12:30AM (CET). This webinar was held under the scope of the ROADMAP Project (Project co-funded by the European Union Civil Protection) and was promoted by its Consortium. The programme of the Webinar was the following:

10:00	Opening and brief ROADMAP project presentation	Domingos Viegas (ADAI) and Andrea Prota (UNINA-CI3R)
10:15	ROADMAP project: Bulletins and Thematic Papers	Giulia Fasoli (EUCENTRE) and Claudia Morsut (UIS)
10:35	CRISPRO project - Security and Protection through Knowledge Synergies	Galya Tezcieva (ISEMI)
10:55	ARTION project - Disaster Management Artificial Intelligence Knowledge Network	Panayiotis Kolios (KIOS-UCY)
11:15	ROADMAP project: Solutions explorer	Nicola Rebora (CIMAFOUNDATION)
11:35	RESISTANT project: Training and Knowledge Sharing Platform For First Responders and Educational Tools for students' and citizens' awareness and preparedness against Natural and Manmade Disasters and Risks	Kalliopi Kravari (IHU)
12:30	Debate and Closure	Domingos Viegas (ADAI) and Andrea Prota (UNINA-CI3R)

Coimbra, 19th of May, 2022

The ROADMAP Consortium

GA n° 101017776 - ROADMAP - UCPM-2020-KN-AG - Project co-funded by the European Union Civil Protection

1st ROADMAP Webinar – main topics

The nexus between Scientists and Decision Makers in Disaster Risk Management

Date: Friday, June 25, 2021
Time: 10h-13h (CET) | 09h-12h (Lisbon time)

Main topics:

- How can we better integrate **scientific knowledge** and **decision making** to improve DRM?
- How can we **improve DRM in a practical way**?
- Can you identify **good practices and lessons from this collaboration**, eventually based on your own experience?

1st ROADMAP Webinar - agenda

10:00-10:30	Opening and ROADMAP project presentation	Domingos Viegas (ADAI) and Andrea Prota (UNINA-CI3R)
10:30-11:00	Risk management models: enhancing stakeholders involvment	Alexandre Tavares (University of Coimbra)
11:00-11:30	Building an effective collaboration between civil protection decision-makers and scientists for DRR: the Italian experience	Daniela Di Bucci (Civil Protection Department)
11:30-12:00	Scientific data and products to support a knowledge base for decision making in disaster risk management	Massimo Cocco (National Institute of Geophysics and Volcanology)
12:00-12:30	From data to action: Epidemiologists and Decision Makers in the management of national COVID-19 pandemic response in Italy	Flavia Riccardo (Italian National Institute of Health)
12:30-13:00	Debate and Closure	Domingos Viegas (ADAI) and Andrea Prota (UNINA-CI3R)

1st ROADMAP Webinar - participation



- 213 attendees and more than 150 views through YouTube;
- Recording available here: https://roadmap.ci3r.it/webinar-the-nexus-between-scientists-and-decision-makers-in-disaster-risk-management/

2nd ROADMAP Webinar – main topics

Communication Challenges in Disaster Risk Management and Crisis Management

6th December 10-12:30 CET

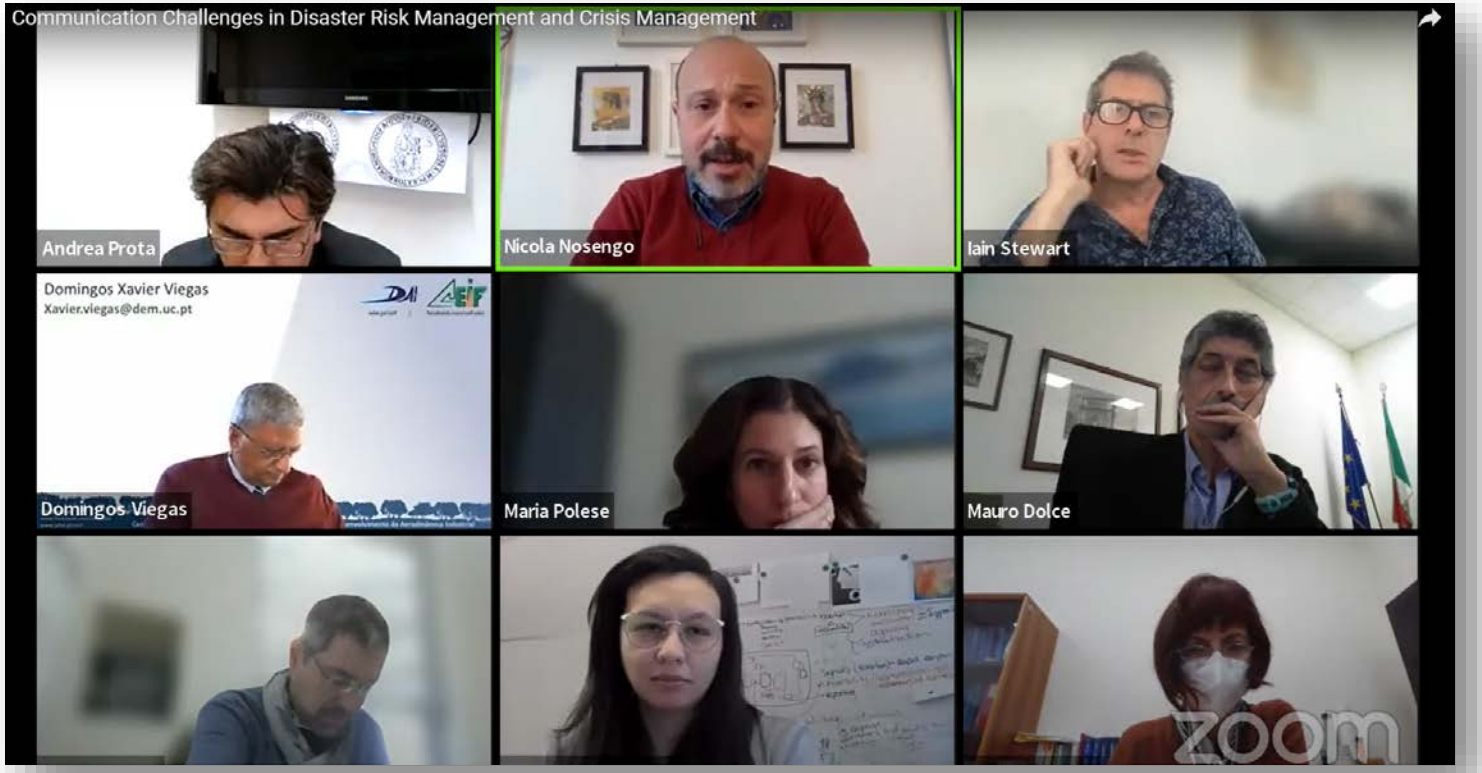
Main topics:

- **Good and bad practices of communication** in disaster risk management (DRM) and crisis management (CM);
- Identification of communication **challenges/limits/problems** in DRM and CM scenarios;
- Involved **Stakeholders** and **Legal and political issues** in DRM communication.

2nd ROADMAP Webinar - agenda

10:00	Opening and brief ROADMAP project presentation	Andrea Prota (UNINA-CI3R)
10:10	Crisis communication in a post-pandemic world. What lessons the COVID-19 crisis has taught on risk communication, and how they can be applied to disasters and natural risks	Nicola Nosengo (Edito Nature Italy)
10:45	Advancing Disaster Risk Communications Towards People-Centred Approaches	Iain Stewart (Universit of Plymouth)
11:20	Listening before we speak: perspectives on preemptive measures for risk and crisis communications	Lucia Herrera (University of Agder)
11:55	Wrap-up and general discussion	Domingos Viegas (ADAI – University of Coimbra)
12:30	Closure	Andrea Prota (UNINA-CI3R)

2nd ROADMAP Webinar - participation



- 183 attendees and more than 200 views through YouTube;
- Recording available here: https://roadmap.ci3r.it/webinar-the-nexus-between-scientists-and-decision-makers-in-disaster-risk-management/

3rd ROADMAP Webinar – main topics

CHALLENGES AND OPPORTUNITIES FOR THE FUTURE OF RESEARCH AND PRACTICE IN DISASTER RISK MANAGEMENT

19th May 10-12:30 CET

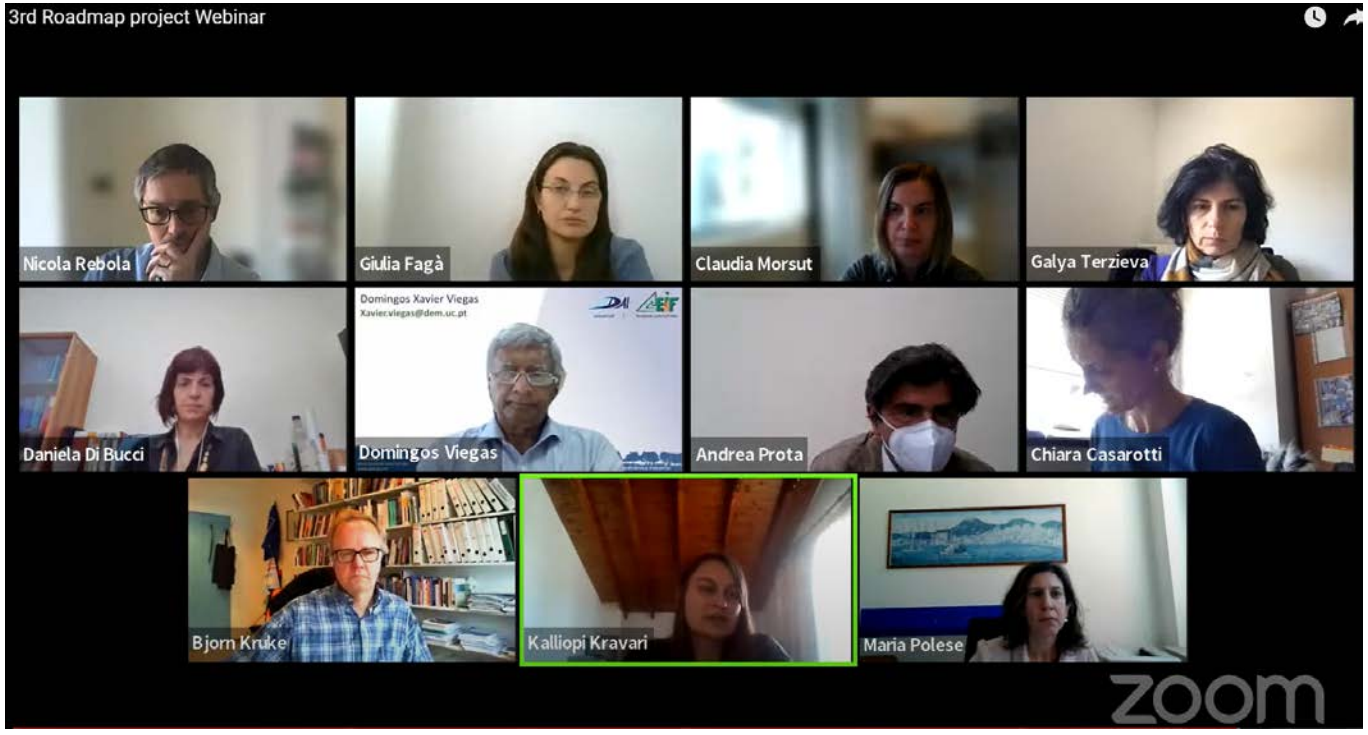
Main topics:

- Presentation and discussion of **relevant project findings** related to the use of **good practices in multi-hazard risk scenarios;**
- **Challenges and opportunities DRM encounters** in such a complex context;
- Identification of **synergies between projects.**

3rd ROADMAP Webinar - agenda

10:00	Opening and brief ROADMAP project presentation	Domingos Viegas (ADAI) and Andrea Prota (UNINA-CI3R)
10:15	ROADMAP project: Bulletins and Thematic Papers	Giulia Fagà (EUCENTRE) and Claudia Morsut (UIS)
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12:30	Debate and Closure	Domingos Viegas (ADAI) and Andrea Prota (UNINA-CI3R)

3rd ROADMAP Webinar - participation



- 129 attendees and more than 60 views through YouTube;
- Recording available here: https://www.youtube.com/watch?v=B02nhUqSJeE&t=8196s

Main achievements

All ROAMAP webinars occurred without technical issues;

•More than 1000 attendees/views showing a significant interest from DRM community in ROADMAP webinars

•Knowledge sharing (namely GPs) that contributed to improve project outcomes

Interesting tool to increase project dissemination and outreach activities as well

•New ideas and potential synergies between EU projects

Austria	Pakistan
Belgium	Philippines
Bosnia and Herzegovina	Poland
Bulgaria	Portugal
Cyprus	Slovenia
France	South Africa
Germany	Spain
Greece	Sweden
India	Switzerland
Indonesia	Turkey
Italy	United Arab Emirates
Jordan	United Kingdom
Montenegro	USA
Norway	

Many thanks

•ADAI team for the overall support and organization

•ROADMAP team, specifically to the Speakers

Advisory Group Members

•EU projects (CRISPRO – ARTION – RESISTANT)

ROADMAP

From knowledge to policy

Thanks for your attention

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ROADMAP

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Solutions explorer

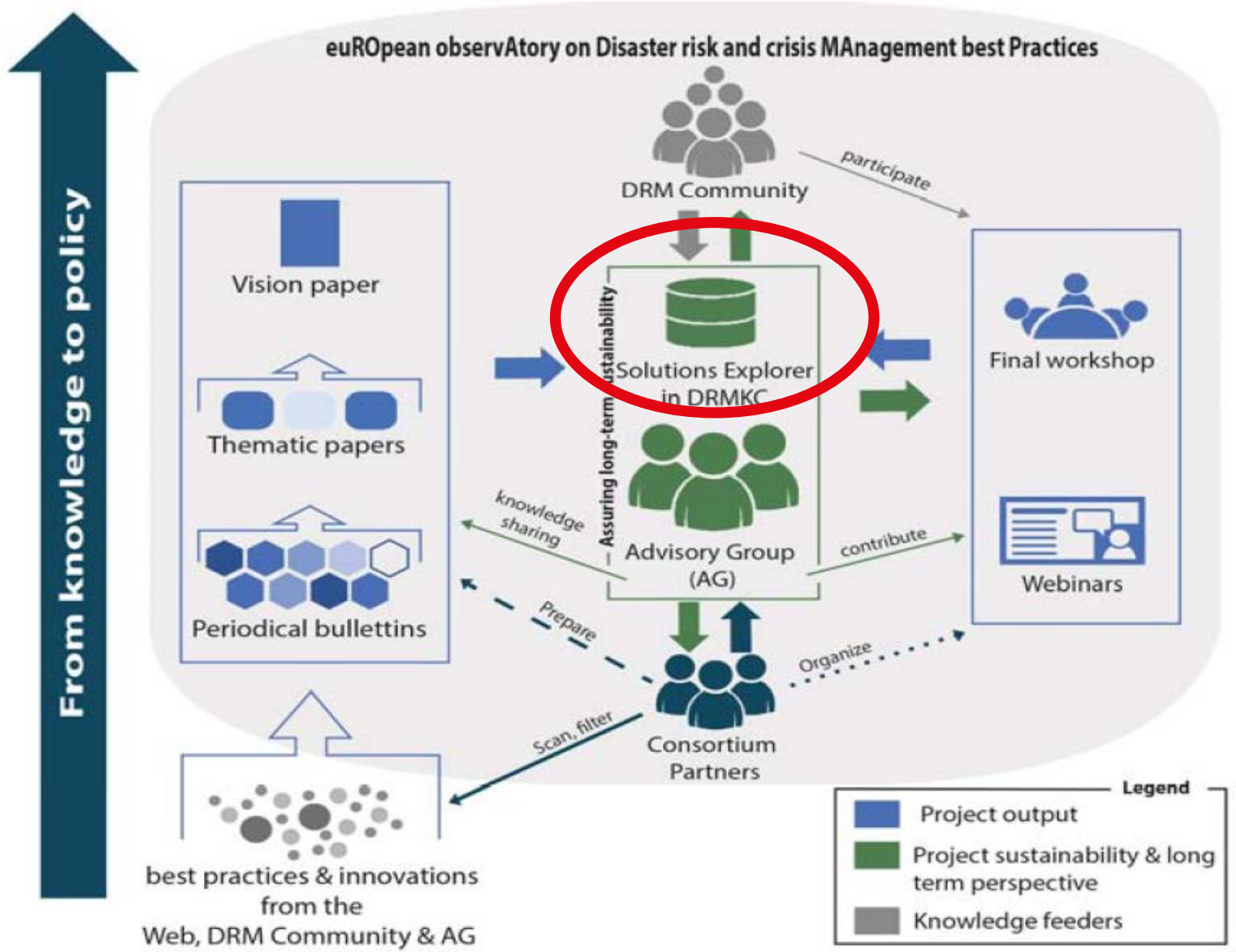
Nicola Rebora – CI3R - CIMA

ROADMAP Final Workshop

June 10th, 2022

Project Co-funded by the European Union Civil Protection GA 101017776

The ROADMAP Methodology



Solutions Explorer

What is the Solutions Explorer?

An open-source Web platform that will be available to project partners and stakeholders (JRC), EC (DG-ECHO) and eventually opened to the general public at the end of the project.

What are its main features?

The new platform will host good practices in DRM available at different governance levels (local, regional, national and international) supporting the activities of ROADMAP (e.g., vision paper, thematic papers, bulletins).

Beyond that, it will be a database interoperable with the DRMKC resources (e.g., Gaps Explorer), with easy access to basic data and experiences in the field of DRM starting from National Risk Assessment available.

Solutions to…

In application of EU regulations

1313 (2013), 420 (2019), 836 (2021)

- *UCPM – Actions for Prevention*
- *UCPM – Actions for Preparedness*
- *UCPM – Actions for Response*
- *UCPM – Actions for Recovery*

Other EU regulations

- *EU Floods Directive 2007/60/EC*
- *……*
- *……*

Inspired by SENDAI framework for DRR 2015-2030

To achieve Targets

- *Reduce mortality*
- *Reduce nr. of affected people*
- *Reduce economic losses*
- *Reduce damages to civil infrastructures*
- *Increase countries with DRR strategies*
- *Enhance international cooperation to developing countries*
- *increase the availability of and access to multi-hazard early warning systems*

To foster Priorities of Action

- *Understanding disaster risk*
- *Strengthen risk governance*
- *Invest in disaster risk reduction*
- *Enhance disaster preparedness for response*

Enhance DRM cycle

DRM Phases

- *Mitigation and prevention*
- *Preparedness*
- *Response*
- *Impact assessment*
- *Restoration and build back better*
- *Adaptation and resilience*

GA n° 101017776 - ROADMAP - UCPM-2020-KN-AG - Project co-funded by the European Union Civil Protection

Characterized by…

Scales

Geographical scale

- *International*
- *European and/or Transboundary*
- *National*
- *Sub-national - regional*
- *Province- municipality local*
- *Metropolitan areas*

Temporal scale

- *Long term*
- *Short term (acute)*
- *Medium term*

Risk elements

Type of Risk

- *Geological risks*
- *Hydrological risks*
- *Meteo-climatological risks*
- *Biological risks*
- *Anthropic risks*
- *Cascading effects, Na-Tech and Multi-risk*

Assets at Risk

- *Population*
- *Buildings*
- *Critical Infrastructures*
- *Environment*
- *Cultural heritage*
- *Infrastructures*

Solutions features…

Beneficiaries

- *Citizens / Communities*
- *Youth*
- *Vulnerable people*
- *Environment*
- *Economic system*
- *……*

Applied in ….

- *where*

Actors involved

- *Politician at EU or national level*
- *Regional / Local Administrator*
- *Civil protection official*
- *Policy maker*
- *Private stakeholder*
- *Scientist*
- *First responder*
- *Volunteer*
- *Communication and media*

Challenges

- *Engaged public opinion*
- *Financial constraints*
- *Fast evolving crisis*
- *Long term effects of decision*
- *High uncertainty or few data*
- *Unexpected event*

Solution type

- *IT Tool (e.g. web-tool; platform; DB, …)*
- *Policy recommendation*
- *Scientific products*
- *Funds allocation*
- *Administrative regulation*
- *Technical regulation*
- *National law*
- *Legal Framework*
- *……*

CI3R ROADMAP

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euROpean observAtory on Disaster risk and crisis MAnagement best Practices

More Info | Find Solution



What are its main features?

The Solutions Explorer hosts good practices in Disaster Risk Management available at different governance levels (local, regional, national and international) supporting the activities of ROADMAP project.

Its database is interoperable with the DRMKC resources (e.g., Gaps Explorer) and can be easily linked with other relevant databases available.

Find Solution

Versione: alfa.0.1

Privacy Policy

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1 Solutions to...

In application of EU regulation:

UCPM - Decision Decision No 1313/2013/EU - Decision No 420/2019/EU - Regulation No 836/2021/EU:

Actions for Prevention

Other EU Regulations:

Select

Inspired on SENDAI framework for DRR 2015 2030:

To achieve targets:

Reduce nr. of affected people, Reduce economic losses

To foster Priorities of Action:

Strengthen risk governance

Enhance DRM cycle

Enhance DRM cycle:

Select

2 Characterized by…

Scales:

Selected Filters

Solutions to:

Actions for Prevention | Reduce nr. of affected people | Reduce economic losses | Strengthen risk governance

Characterized by:

National | Population

FIND SOLUTION



2 Characterized by…

Scales:

Geographical scale:

National

Temporal scale:

Select

Risk Elements:

Type of Risk:

Select

Assets at Risk:

Population

3 Solutions features…

Beneficiaries:

Select

Applied in:

Select

Actors involved:

Select

Challenges:

Select

Solution type:

Select

Selected Filters

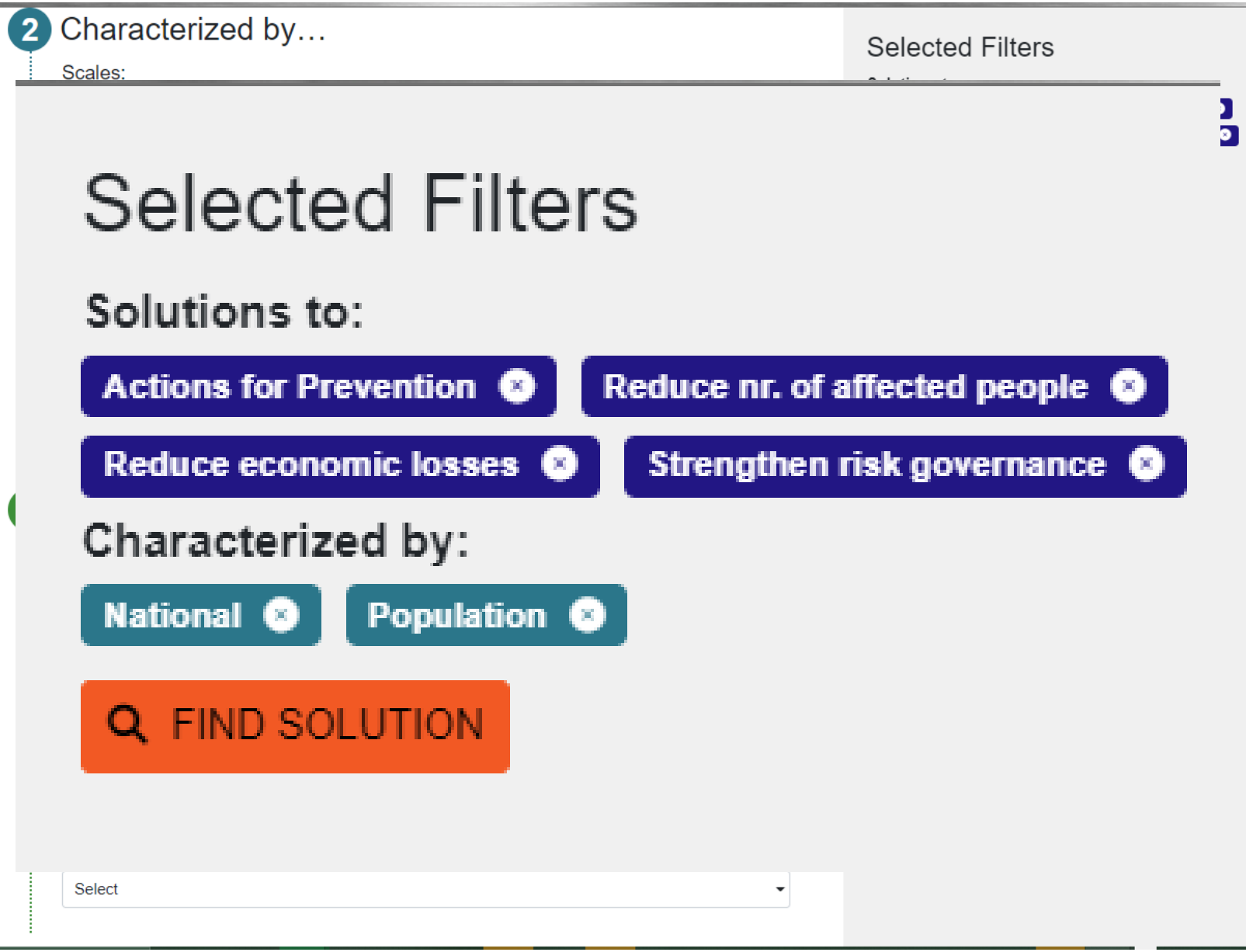
Solutions to:

Actions for Prevention | Reduce nr. of affected people | Reduce economic losses | Strengthen risk governance

Characterized by:

National | Population

FIND SOLUTION


2 Characterized by…
Scales:
Selected Filters
Selected Filters
Solutions to:
Actions for Prevention
Reduce nr. of affected people
Reduce economic losses
Strengthen risk governance
Characterized by:
National
Population
FIND SOLUTION
Select

ROADMAP

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Search Results (34)

Sort by Joined date



Integrated Disaster Risk Management in a Mountainous Area

Countries in the OSCE region are frequently affected by floods, storms, earthquakes, drought and other natural hazards. The field visits in the Canton of Valais demonstrate and serve to promote how comprehensive disaster risk management can be applied.
The two field visits took participants along the route leading to the Great St Bernard tunnel (field visit 1), a major international transit corridor linking Switzerland and Italy, and to the Monthey region of the Rhone valley (field visit 2), whose chemical industry makes it the economic motor of the Canton of Valais, but which is also particularly vulnerable to seismic and hydrological risks.
The booklet first provides a general overview, including a brief presentation of the Swiss context (chapter 2) and the principles of integrated risk management (chapter 3). This is followed by a description of each of the planned field visits (chapters 4 and 5).

Best Management Practices: Droughtiness

The Ontario Ministry of Agriculture, Food and Rural Affairs has developed a series of factsheets and infosheets that summarise the best management practices (BMPs) for soil health and soil health diagnostic in a given field. A BMP is intended as a practical, affordable approach to conserving a farm's soil and water resources without sacrificing productivity. BMPs have been qualified according to the judgement of a team of farmers, researchers, extension staff and agribusiness professionals.The documents are freely available online.
A specific infosheet has deen dedicated to droughtiness and presents a set of diagnostic tools used to describe the type, nature and extent of droughtiness in Ontario cropland soils. Specifically, droughtiness relates to the moisture conditions of the soil, which exhibits a chronic evidence of a water deficit for crop growth. In a droughty soil, moisture inputs (e.g., rainfall) and pre-existing available moisture levels cannot meet evapotranspiration rates, i.e., the rate at which water is evaporated from cropland and plant surfaces plus the amount of

Solution not yet approved

Selected Filters

Solutions to:

Actions for Prevention | Reduce nr. of affected people | Reduce economic losses | Strengthen risk governance

Characterized by:

Population

TUNE BETTER

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Integrated Disaster Risk Management in a Mountainous Area

24/05/2022

Countries in the OSCE region are frequently affected by floods, storms, earthquakes, drought and other natural hazards. The field visits in the Canton of Valais demonstrate and serve to promote how comprehensive disaster risk management can be applied.
The two field visits took participants along the route leading to the Great St Bernard tunnel (field visit 1), a major international transit corridor linking Switzerland and Italy, and to the Monthey region of the Rhone valley (field visit 2), whose chemical industry makes it the economic motor of the Canton of Valais, but which is also particularly vulnerable to seismic and hydrological risks.
The booklet first provides a general overview, including a brief presentation of the Swiss context (chapter 2) and the principles of integrated risk management (chapter 3). This is followed by a description of each of the planned field visits (chapters 4 and 5).

Informations

Posted by
Emiliya Hamidova

Date
24/05/2022

Source
Integrated Disaster Risk Management

Actions:

- Enhance and develop the cross-border network of actors involved in the management of natural risks.
- Develop and disseminate information service tools to ensure the usability of the network and increase public awareness of it.
- Conduct training and exchange programmes in the field of natural risks, designed for various categories of users, including future post-earthquake response specialists.
- Strengthen the awareness and involvement of the general population in order to promote a more balanced understanding of risk in the public.
- Develop an approach focused on the sustainability of natural risk prevention policies.

Type Of Risk: Na-Tech and Multi risk.

Informations

Posted by
Emiliya Hamidova

Date
24/05/2022

Source
Integrated Disaster Risk Management

- Develop an approach focused on the sustainability of natural risk prevention policies.

Type Of Risk: Na-Tech and Multi risk.

DRM Phase: Mitigation and prevention, Preparedness.

Sendai target(s): Reduce mortality, Reduce nr. of affected people, Reduce damages to civil infrastructures.

Sendai priority(ies): Strengthen risk governance.

Solution type: Scientific products.

Temporal scale: Long term.

Geographical scale: Province or municipality or local, European and/or Transboundary.

Assets at Risk: Population.

Challenges:
-

Actors involved: Regional / Local Administrator, Private stakeholder.

Beneficiaries: Citizens / Communities.

Applied in: Italy.

Integrated Disaster Risk Management.

Methodology for Good Practices collection

Questionnaires

GA n° 101017776 - ROADMAP - UCPM-2020-KN-AG - Project co-funded by the European Union Civil Protection

Methodology for Good Practices collection – Questionnaires



CI3R PROTEZIONE CIVILE University of Stavanger

ROADMAP

Project Details | Start date: 1st January 2021 | End date: 30th June 2022 | Duration: 18 Months | Reference: 101017776 – ROADMAP – UCPM-2020-KN-AG
Project co-funded by the European Union Civil Protection

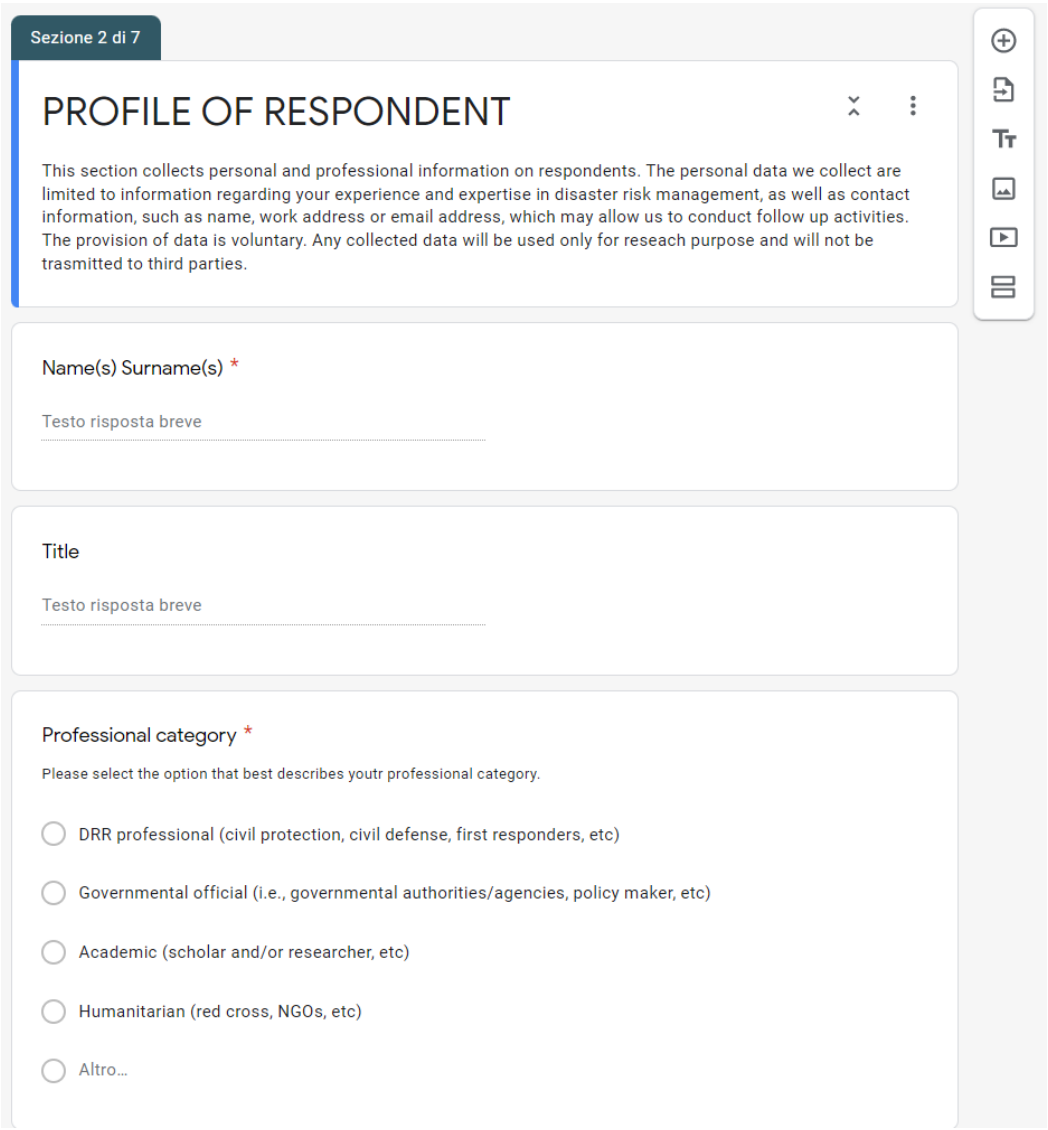
Sezione 1 di 7

GOOD PRACTICES IN DISASTER RISK MANAGEMENT

The following questions have been designed to acquire information on projects, experiences, stories, and practices centered on multi-hazard and/or multi-risk scenarios, as part of the European Project ROADMAP (website: https://roadmap.ci3r.it/) (European observatory on disaster risk and crisis management best practices) co-funded by the European Union Civil Protection. We aim to collect good practices in DRM at different governance levels and making them readily available and usable to communities and practitioners into a fit-for purpose "Solution Explorer".

Building on your expertise, we are kindly asking you to complete the questionnaire with the requested information. Feel free to send more than one example per country/organization. If you took part, at any stage, in disaster risk assessment and management, we would be grateful to learn from your experience.

Your contribution may help us to better understand what elements facilitate the ideation and implementation of successful practices.



Sezione 2 di 7

PROFILE OF RESPONDENT

This section collects personal and professional information on respondents. The personal data we collect are limited to information regarding your experience and expertise in disaster risk management, as well as contact information, such as name, work address or email address, which may allow us to conduct follow up activities. The provision of data is voluntary. Any collected data will be used only for reseach purpose and will not be trasmitted to third parties.

Name(s) Surname(s) *

Testo risposta breve

Title

Testo risposta breve

Professional category *

Please select the option that best describes youtr professional category.

- DRR professional (civil protection, civil defense, first responders, etc)
- Governmental official (i.e., governmental authorities/agencies, policy maker, etc)
- Academic (scholar and/or researcher, etc)
- Humanitarian (red cross, NGOs, etc)
- Altro...

Methodology for Good Practices collection – Questionnaires

Sezione 3 di 7

GOOD PRACTICE

This section focuses on the elements of a practice that we deem to be important to ensure effectiveness, reach, feasibility, sustainability, and transferability.

Can all of the practice be described in such detail that the approach is comprehendible and transferable, allowing for some estimate of effectiveness? *

1. Yes
2. No

Can the practice be effective in addressing similar problems in the future or adapted to diverse contexts? *

1. Yes
2. No

Dopo la sezione 3 Continua alla sezione successiva

Sezione 4 di 7

DESCRIPTION OF THE PRACTICE

Part I. Basic facts

Sezione 5 di 7

DESCRIPTION OF THE PRACTICE

Part II. Implementation

Sezione 6 di 7

DESCRIPTION OF THE PRACTICE

Part III. Monitoring and follow up

Sezione 7 di 7

FINAL REMARKS

Solutions Explorer

Sustainability

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Choices (methodological and technical) to ensure the SE sustainability #1

- ✓ Allowing registered users to insert new good practices
- ✓ Setting up an “evaluation committee” for deciding which good practices will be inserted in the SE
- ✓ DG-ECHO will decide the criteria

Choices (methodological and technical) to ensure the SE sustainability #2

how to deal with interoperability between the SE and existing platforms/databases?

- ✓ GAPS Explorer – JRC
- ✓ Portfolio of Solutions – Driver+
- ✓ Project Explorer – CERIS

SE sustainability

Choices (methodological and technical) to ensure the SE sustainability

- ✓ **Allowing registered users to insert new good practices.**
  - Pro: user can insert new good-practices according to its profile of expertise
  - Pro: authorized experts can upload their GPs
  - Pro: more sustainable maintenance of the SE
  - Con: unsupervised/less supervised GP entry
  - Con: low commitment from GP providers
  - Con: uploaded GPs can be of poor quality / need of periodical check by the GP administrator

- ✓ **Setting up an " evaluation committee" for deciding which good practices will be inserted in the SE**
  - Pro: supervised GP entry
  - Pro: higher GPs quality
  - Pro: higher commitment of GP providers
  - Con: selection process of "evaluation committee" members / commitment of "evaluation committee"
  - Con: slower process for GPs approval
  - Con: less sustainable maintenance of the SE, higliy based on the commitment of the evaluation committee

- ✓ **DG-ECHO will decide the criteria and the management rules of the SE**

Choices (methodological and technical) to ensure the SE sustainability #2

How to deal with interoperability between the SE and existing platforms/databases?

- ✓ GAPS Explorer – JRC
- ✓ Portfolio of Solutions – Driver+
- ✓ Project Explorer – CERIS
- ✓ Other

Opt1:

SE is designed in a standardized way allowing for interoperability with other DBs but not linking them at the present status of the development.

Opt2

SE start incorporating GPs also from other DBs already available, needs for further detailed studies

Conclusions

- ✓ **Inspired by the GAPS EXPLORER of DRMKC**

- ✓ **Solutions explorer is an open-source Web platform** that will host good practices in DRM available at different governance levels (local, regional, national and international).

- ✓ The platform will allow to search and browse for good practices and solutions in DRM

- ✓ Its database is interoperable with the DRMKC resources (e.g., Gaps Explorer) and can be easily linked with other relevant databases available (e.g Project Explorer developed by CERIS).



- ✓ It is available to project partners and stakeholders (JRC), EC (DG-ECHO) and **eventually opened** to the general public **at the end of the project**. **External institutions and experts** will be allowed to **upload new good practices**, following a proper ontology, that will be validated and reported in the Solutions Explorer.

ROADMAP



Thanks for your attention

nicola.rebora@cimafoundation.org

ROADMAP

euROpean observAtory on Disaster risk and crisis MAnagement best Practices

Round table: general discussion on future perspectives

Mauro Dolce

ROADMAP Final Workshop

June 10th, 2022

Project Co-funded by the European Union Civil Protection GA 101017776

Introductory notes

We start this round table with the experience of civil protections in some European countries on future perspectives for a shared understanding of DRM good practices.

Linnéa ARNEVALL
Swedish Civil Contingencies Agency (MSB)

Nataša HOLCINGER
Head of Croatian Platform Coordination Department
Ministry of Interior, Civil Protection Directorate

Carlos MENDES LUCIO
National Authority for Emergency and Civil Protection (ANEPC) of Portugal
Head of Department for Risk Analysis and Emergency Planning

Eleonora PANUNZI
Responsible for the “Osservatorio Buone Pratiche”
Italian Civil Protection Department

Points for discussion

1. **Importance of an integrated community of experts**
2. **Need of an EU observatory of good practices**
3. **National observatories**
4. **Involvement of other participants in the construction of the doctrine**
5. **Development of research based on a multi-hazard risk approach**

"For every complex problem, there's a solution that is simple, neat, and wrong“

H.L. Mencken (1880-1956)

The Italian Observatory on good practices in civil protection activities

Eleonora Panunzi
Italian Civil Protection Department

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Dipartimento della Protezione Civile

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Legal Framework

Article 8 Civil Protection Code - Functions of the Department of Civil Protection of the Presidency of the Council of Ministers

"1. The President of the Council of Ministers, makes use of the Department of Civil Protection of the Presidency of the Council of Ministers, to perform the following tasks which, within the framework of the activities referred to in Article 2, are of national importance:

(a) the direction, promotion and coordination of the activities of State administrations, central and peripheral, regions, municipalities and their forms of aggregation or aggregated exercise of functions, metropolitan cities, provinces as bodies of the area referred to in Law no. 56 of 7 April 2014, according to the organisational methods governed therein, national and territorial public bodies and any other institution and public or private organisation present on the national territory in the field of civil protection, **also through the activation of an observatory on good practices in civil protection activities."**

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What is good practice?

"**Process** aimed at the pursuit of a specific objective consistent with civil protection purposes, and leading to an improvement in the action of the National Civil Protection Service (NCPS). The good practice must have been effectively implemented, tested and applied by the actors of the NCPS, demonstrating coherence with the set objective."



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3 essential criteria of a Good Practice:

Efficiency

- GP must be consistent with the implementation context and sustainable in terms of the employed resources. It must also be sustainable over time;

Effectiveness

- GP must be able to successfully achieve the objective for which it was created. It must contain elements that contribute to the achievement of the overall objectives of the NCPS, providing for the involvement and participation of the actors concerned, while respecting the internal procedures of the various administrations involved.

Transferability

- GP must contain elements that allow it to be adapted and modulated, to be used as a model by others in contexts similar to the one in which it was implemented and, where possible, also in different contexts.

Observatory goals

improvement of the entire civil protection 'system'

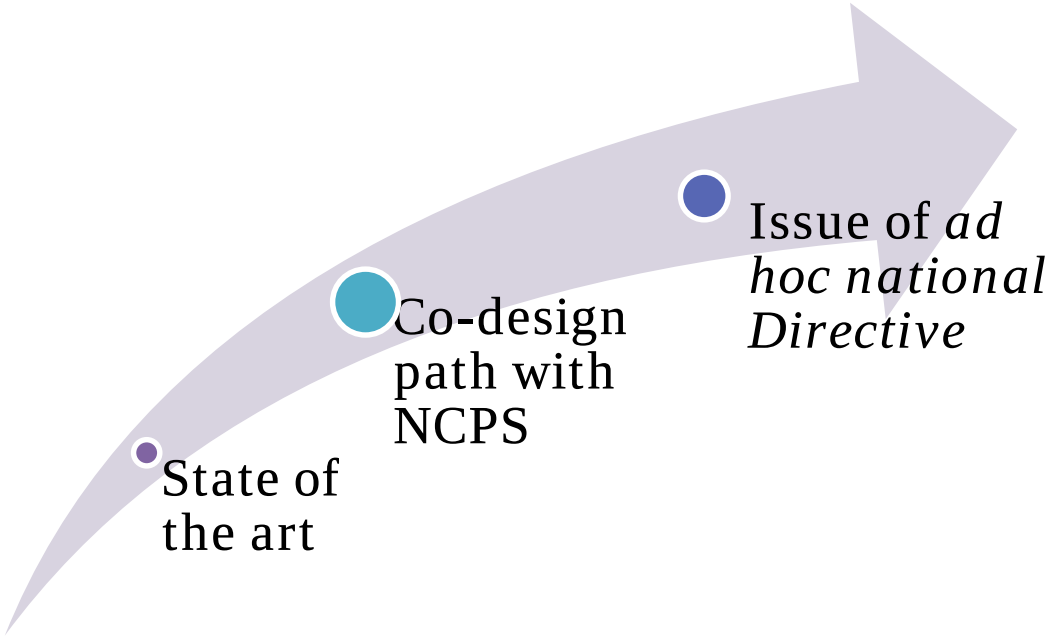
through

- Facilitating the identification of future policies of the legislator
- Spreading the CP culture in the system
- Stimulating discussion between the different actors in the system
- Promoting the accountability of the activities carried out by the NCPS
- Improving the solutions adopted in the face of problems incurred in the several activities
- Enhancing not only the result achieved but also the methodology adopted to realize the predefined objectives

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How to create the good practice observatory



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