




# 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 1<sup>st</sup> of January 2021 and ended on the 30<sup>th</sup> 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).

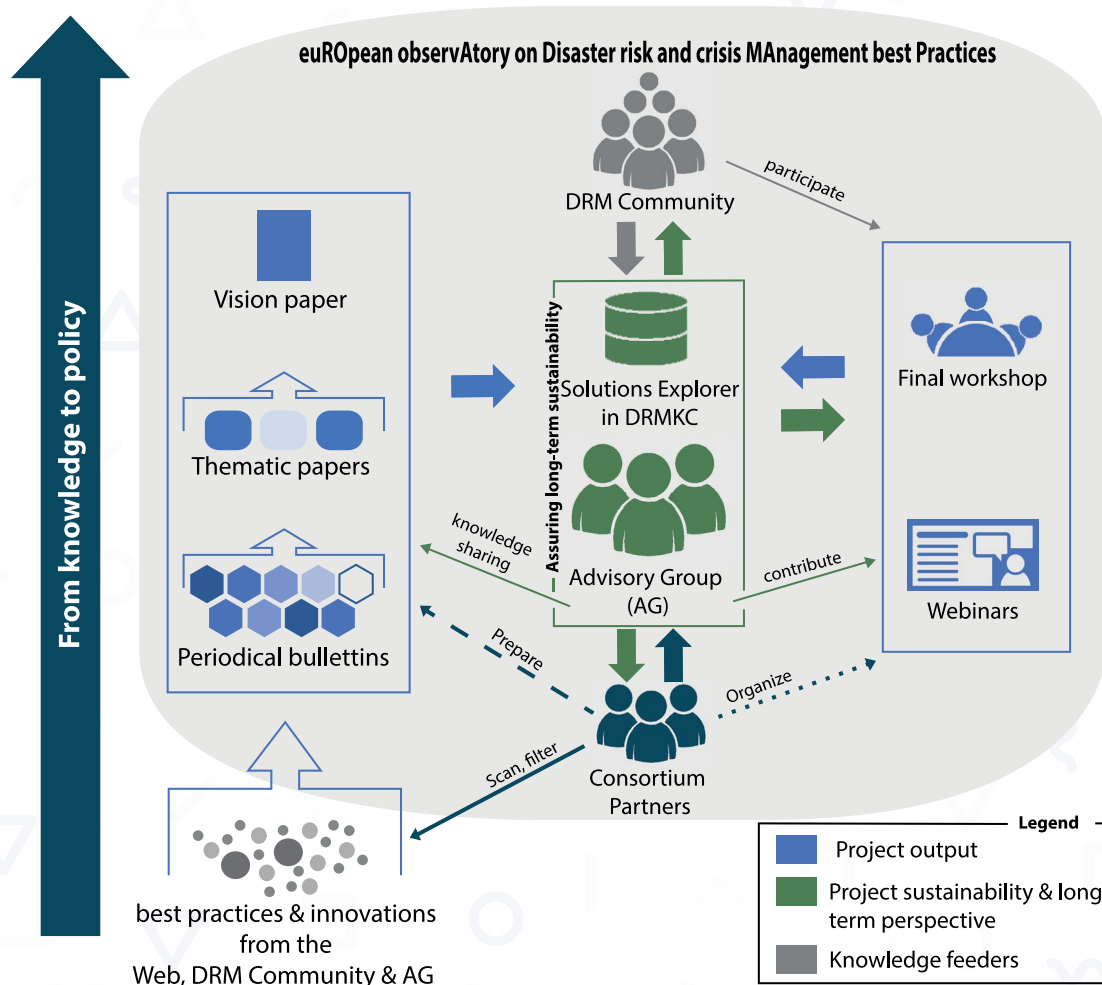
The project activities were designed with the aim of providing sustainability to the project results so that they can be easily linked to well-established European (e.g. the Disaster Risk Management Knowledge Centre - DRMKC) and national (e.g. national Civil Protection authorities) initiatives and institutions.

### 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 10<sup>th</sup> 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<sup>1</sup>

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.

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

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

### Thematic papers<sup>9</sup>

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:

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

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

<sup>1</sup> <https://roadmap.ci3r.it/publications/>

<sup>2</sup> <https://doi.org/10.57580/BLT1DOI>

<sup>3</sup> <https://doi.org/10.57580/BLT2DOI>

<sup>4</sup> <https://doi.org/10.57580/BLT3DOI>

<sup>5</sup> <https://doi.org/10.57580/BLT4DOI>

<sup>6</sup> <https://doi.org/10.57580/BLT5DOI>

<sup>7</sup> <https://doi.org/10.57580/BLT6DOI>

<sup>8</sup> <https://doi.org/10.57580/BLT7DOI>

<sup>9</sup> <https://roadmap.ci3r.it/publications/>

<sup>10</sup> <https://doi.org/10.57580/TP1DOI>

<sup>11</sup> <https://doi.org/10.57580/TP2DOI>

<sup>12</sup> <https://doi.org/10.57580/TP3DOI>




### Solutions explorer<sup>13</sup>


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.

#### What is the Solutions Explorer?

The Solutions Explorer is an open-source web platform with easy access to data and experiences in the field of Disaster Risk Management.

[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](#)

<sup>13</sup> <https://solutionexplorer-roadmap.ci3r.it/solution-explorer>



## The Vision Paper<sup>14</sup>

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<sup>15</sup>

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.

- **1<sup>st</sup> 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.
- **2<sup>nd</sup> 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.
- **3<sup>rd</sup> 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<sup>16</sup>

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.

<sup>14</sup> <https://roadmap.ci3r.it/publications/>

<sup>15</sup> <https://roadmap.ci3r.it/publications/>

<sup>16</sup> <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 rationale 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<sup>17</sup>**

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 Desenvolvimento 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/>

<sup>17</sup> <https://roadmap.ci3r.it/publications/>

