



# LINKS

Strengthening links between technologies and society  
for European disaster resilience

## D7.8 FINAL REPORT ABOUT THE RELATION TO OTHER NETWORKS

Report

DIETER NUSSLER – FEDERATION OF EUROPEAN UNION FIRE OFFICER ASSOCIATIONS

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## EXECUTIVE SUMMARY

### About the project

LINKS “Strengthening links between technologies and society for European disaster resilience” is a comprehensive study on disaster governance in Europe. In recent years, social media and crowdsourcing (SMCS) have been integrated into crisis management for improved information gathering and collaboration across European communities. The effectiveness of SMCS on European disaster resilience, however, remains unclear, owing to the use of SMCS in disasters in different ways and under diverse conditions. In this context, the overall objective of LINKS is to strengthen links between technologies and society for improved European disaster resilience, by producing sustainable advanced learning on the use of SMCS in disasters. This is done across three complementary knowledge domains:

- Disaster Risk Perception and Vulnerability (DRPV)
- Disaster Management Processes (DMP)
- Disaster Community Technologies (DCT)

Bringing together 15 partners and 2 associated partners across Europe (Belgium, Denmark, Germany, Italy, Luxembourg, the Netherlands) and beyond (Bosnia & Herzegovina, Japan), the project will develop a framework to understand, measure and govern SMCS for disasters. The LINKS Framework consolidates knowledge and experiences on the uses of SMCS into useful products for relevant stakeholders. It will be developed and evaluated through five practitioner-driven European cases, representing different disaster scenarios (earthquakes, flooding, industrial hazards, terrorism, drought), cutting across disaster management phases and diverse socioeconomic and cultural settings in four countries (Denmark, Germany, Italy, the Netherlands). Furthermore, LINKS sets out to create the LINKS Community, which brings together a wide variety of stakeholders, including first-responders, public authorities, civil society organisations, business communities, citizens, and researchers across Europe, dedicated to improving European disaster resilience through the use of SMCS.

### About this deliverable

The purpose of this document is to report on the activities of the LINKS Consortium during the entire project to establish relationships with relevant and similar networks, institutions and communities listed in a specific section of the LINKS Community Center (LCC). The related link is [https://links.communitycenter.eu/index.php/Overview\\_of\\_Networks,\\_Institutions\\_and\\_Communities](https://links.communitycenter.eu/index.php/Overview_of_Networks,_Institutions_and_Communities)

The methodological approach of this stakeholder database outlines the variety of entities which must be considered in crisis management beyond the Disaster Management Organisations. As disasters affect many civil sectors, infrastructure providers should be included in the list of relevant stakeholders, as well as civil society organisations with some of them representing potential victims of disasters while others are volunteering to diminish the impact of a crisis.

The developed "Collection of Networks, Institutions and Communities" enabled the consortium to identify national and European sectoral risk-specific stakeholders representing the project's target audiences. In addition to a short description in-depth information about these more than 250 stakeholder entities is made available in the LCC via the provided links to their websites and Social Media accounts.

As the project results matured, the stakeholder database became an important building block for the targeted LINKS community, i.e. for individuals and organisations with expertise in disaster management who have a similar interest in the use of social media and crowdsourcing (SMCS).

The LINKS consortium has been in contact with most of these stakeholders via email, Social Media, virtual or in-person meetings, webinars or conferences.

The extent and intensity of the cooperation that took place until month 30 ranged from short information about the goal and intended outcome of the project via the LINKS communication channels performed by WP 9 to active participation in research via questionnaires, interviews, or LINKS community workshops developed and organised by the various Case Assessment Teams. Details about these activities can be found in deliverables from WP 6 and WP 8.

In the final 12 months of the project the focus was on disseminating the project results and verifying exploitation opportunities.

On international scale the interaction with projects grouped in the Societal Resilience Cluster (SRC) have been particularly interesting to identify and use synergies on a conceptual level and thus has been constantly intensified in 2023. Relations with international practitioner networks were intensified in the final year by giving several presentations of project results at their conferences.

In 2023, the listed stakeholders operating at national level in the respective country were increasingly named by project partners as potential addressees for using the various products after the end of the project, as the majority of them were considered important for efficient and comprehensive crisis communication in the event of various types of disasters.

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## LIST OF ACRONYMS

Abbreviation / Acronym	Description
CAT	Case Assessment Team
CERIS	Community of European Research and Innovation for Security
D	Deliverable
DCT	Disaster Community Technology
DEC	Dissemination, Exploitation and Communication
DG	General Directorate of the European Commission
DMP	Disaster Management Process
DoA	Description of Action – Annex to the Grant Agreement
DRPV	Disaster Risk Perception and Vulnerability
DRS	Disaster Resilient Societies
LAC	LINKS Advisory Committee
LCC	LINKS Community Center
LCW	LINKS Community Workshop
SMCS	Social Media and Crowdsourcing
SRC	Social Resilience Cluster
VOST	Virtual Operations Support Team
WP	Work Package

## DEFINITION OF KEY TERMS<sup>1</sup>

Term	Definition
Communication	Taking strategic and targeted measures for promoting the project and its results to a multitude of audiences, including the media and the public, and possibly engaging in a two-way exchange
Crisis	Unstable condition involving an impending abrupt or significant change that requires urgent attention and action to protect life, assets, property, or the environment.
Civil Society	Civil society organisations and non-governmental organisations. This includes educational institutions, organised volunteers' groups and other such as social movement organisations and networks. These organisations reflect the interests and will of citizens, while remaining independent of the government or authorities, as they will operate for the collective good, absent direct state control and commercial interest.
Critical infrastructure	The physical structures, facilities, networks, and other assets which provide services that are essential to the social and economic functioning of a community or society. Physical and information technology facilities, networks, services, and assets which, if disrupted or destroyed, would have a serious impact on the health, safety, security or economic well-being of citizens or the effective functioning of governments in State.
Crowdsourcing	Describes a distributed problem-solving model where the task of solving a challenge or developing an idea get "outsourced" to a crowd. It implies tapping into "the wisdom of the crowd".
Disaster Management	The organisation, planning and application of measures preparing for, responding to, and recovering from disasters
Dissemination	The public disclosure of results by any appropriate means, including by scientific publications in any medium.
Emergency	Sudden, urgent, usually unexpected occurrence or event requiring immediate action.
Exploitation	The utilisation of results in further research activities other than those covered by the project, or in developing, creating, and marketing a product or process, or in creating and providing a service, or in standardisation activities
LINKS Advisory Committee	Invited professionals and experts from relevant organisations (representing practitioners, researchers, and citizens) that advise, inform, and validate developments and results in the project.

<sup>1</sup> Definitions are retrieved from the LINKS Glossary at <https://links-project.eu/index.php/glossary/>

Term	Definition
LINKS Community	A sustainable stakeholder community consisting of multidisciplinary stakeholders from several countries, professions, and schools of thought. The main stakeholders involved in the LINKS Community are practitioners, industry, decision makers, researchers, and networks (the scientific community), citizens and civil society.
LINKS Community Center	The LCC brings together different stakeholders (LINKS Community) in one user-friendly and flexible web-platform and enables them to exchange knowledge and experiences and to access, discuss and assess learning materials on the usage of SMCS in disasters.
LINKS Community Workshops	Workshops for capacity-building at the local level, organised locally by the LINKS project partners and linked to the five pre-defined case studies (earthquake in Italy, industrial disasters in the Netherlands, drought in Germany, flooding in Denmark and terrorism in Germany). They are crucial for gathering and communicating information regarding the project's objectives and requirements, and for exchanging best practices among local stakeholders on the use of SMCS in disasters.
Response	Actions taken directly before, during or immediately after a disaster to save lives, reduce health impacts, ensure public safety, and meet the basic subsistence needs of the people affected
Vulnerable Groups	Those groups that due to physical, social, economic, and environmental factors or processes, are more exposed and susceptible to the impacts of hazards.

# 1. INTRODUCTION

## 1.1 Methodological approach

The project's acronym LINKS suggests, one of the core objectives of the project was to develop links to various stakeholders, including other projects, networks, institutions, and communities engaged in the disaster management arena. Listing of these contacts should become the building block for the LINKS community.

In the context of the collection of relevant stakeholders for the LINKS project the generic term "Network" was broadened to allow addressing all the target audiences of LINKS as follows (see also D7.7 (Nuessler, D; 2022)):

- **Relevant networks, institutions and communities** are those which could disseminate the project's results and/or allow at a later stage the identification of similar areas of interest and common goals.
- **Similar networks** are those composed in the same way as the LINKS consortium, namely researches and practitioners interested in contributing to a more resilient society in disasters. It was foreseen based on this, to establish integration points on a conceptual level and to identify and use potential synergies.
- **Institutions** can be considered as institutional networks<sup>2</sup> if they are members of a network that aims to promote cooperation and exchange among its partners on various topics of common interest. The European Commission for example is an institution of the European Union.
- **Communities** can be considered as personal networks<sup>3</sup> if composed of people who share some common interests, values, or goals and who communicate regularly with each other. An example is the intended LINKS Community, namely entities of individuals with expertise in Disaster Management who share a similar interest in the use of Social Media and Crowdsourcing (SMCS). These would be a heterogenous community of practitioners, researchers, policy makers, as well as representatives from businesses and civil society.

In this deliverable the updated naming and definitions of the target groups from D9.2 (Opromolla, A.; 2023) are used.

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<sup>2</sup> Institutional networks are considered as a partnership network that is composed of universities or other institutions from different countries or regions that collaborate on academic, research, or social issues.

<sup>3</sup> Personal networks are networks of individuals who have personal relationships with each other, such as friends, family, neighbors, colleagues, etc.

**Figure 1: Visual identity of the LINKS networks, institutions and communities**



For the “Collection of Networks, Institutions and Communities” a differentiation has been made within these target groups because the various types of crisis scenarios require a variety of different actors to cope with the specific disaster. Different actors come into play depending on the incident under consideration, e.g., whether if one deals with an emergency because of an extensive wildfire, a flooding, an earthquake, a landslide, an industrial incident or even a mass attack (terror).



### **Practitioners**

*Organisations specialised in giving assistance in emergency situations*

The collection of practitioners’ networks considers that different actors are relevant depending on the crisis under consideration. While some of these actors are regularly involved, e.g., the police, others will only be activated at special incidents but should not be overlooked as important parts of Disaster Management.

Practitioners’ networks are grouped as follows:

- Fire Service
- Emergency Medical Service
- Civil Protection Forces
- Mountain Rescue
- Water Rescue
- Sea rescue
- Police

### **Developers**



*Individual researchers, universities and academic groups working on different aspects in the field of disasters*

Developers' networks are grouped as follows:

- Crisis management
- Information and Communication Technologies
- Environmental research
- Miscellaneous
- EU research projects dealing with Disaster Management



### **Policy and Decision Makers**

*Legislative and executive bodies operating at different administrative levels*

Policy and decision makers' networks are grouped as follows:

- Crisis management
- Information and Communication Technologies
- Environment
- Security
- Resilience
- Citizenship



### **Businesses**

*Small, medium and big enterprises in the field of social media and technologies*

Businesses networks, institutions and communities are grouped as follows:

- Information and Communication Technologies
- Insurance Companies
- Critical Infrastructure Providers
  - o Public transport
  - o Energy
  - o Water management
- Security and Safety



## Disseminators

### *Media informing about disasters*

While several print media providing information about disaster management and/or civil protection are available, one can hardly find disseminators networks with such a focus.

Disseminators are grouped as follows:

- Media Associations
- Magazines & Newspapers
- Radio & TV



## Civil Society

### *Citizens who at times of crises can provide important data and information*

Civil Society networks are grouped as follows:

- Vulnerable people
  - o Disabled
  - o Hearing impairment
  - o Visual impairment
  - o Reading impairment
- Religious Communities
- The old and the young
- Citizens and Science
- Digital Volunteers
- Risk reduction

#### **NOTE:**

**Local Communities** - *Groups linked by social and organisational relationships at the local level deriving from common interests, values and needs* – are not included in the “Collection of Networks, Institutions and Communities” because of the limited access to their Social Media accounts which could be referred to in the database.

These communities have been addressed in the LINKS Community Workshops (LCWs) and activities are reported by WP 8.

Throughout the database development phase, the consortium placed a significant emphasis on engaging with international stakeholders. The consortium sought collaboration with these stakeholders for various purposes, including addressing them to evaluate the LINKS Framework or to promote the research results of LINKS to a wider audience.

With other European Research projects from the Disaster Resilient Societies (DRS) clusters we were aiming at finding integration points on conceptual and practical (e.g., joined dissemination events) levels and potential synergies and these projects were therefore also embedded in this database under the heading “International networks, institutions and communities”.

The mapping of stakeholders active at national level was not the main objective of Task 7.5 “Integration and communication with other networks” but was included in the database because it could help the Case Assessment Teams to find interested actors for their research activities and also addressees for dissemination and exploitation in the respective country.

For further use of this collection the same categorization as previously described was chosen to allow easy transferability of stakeholder types beyond those scenarios dealt with in the four “case countries” Denmark, Germany, Italy, and the Netherlands.

For different crisis scenarios, this makes it easy to read off the stakeholders that could become important in the respective country for efficient and comprehensive crisis communication.

This approach could easily be extended to other countries, e.g., in future research projects.

After listing the national and European sectoral risk-specific stakeholders representing the project's target groups in a spreadsheet the information was preliminarily embedded in the LINKS Community Center (LCC) for testing to allow consortium members a more comfortable access to that information than this could be done via a spreadsheet. But after the LINKS Advisory Committee (LAC) at its second meeting - described in D8.5 (Reeson, K., Giacinti, F., Nuessler, D.; 2022) – had considered this database as a useful source of information also beyond the end of the project, e.g., for further research projects, and suggested that the list should be kept in the LCC, the “Collection of Networks, Institutions and Communities” is no longer just an internal tool available during the project but is now presented as one of the LINKS results.

The related link is [https://links.communitycenter.eu/index.php/Overview\\_of\\_Networks](https://links.communitycenter.eu/index.php/Overview_of_Networks)



Figure 2: Landing page of the LINKS Community Center



## Social Media and Crowdsourcing Libraries



### Technologies

Software for interaction with, within or among communities in case of a disaster and for analysis of these interactions.



### Guidelines

Expert guidelines for usage of social media and crowdsourcing in disasters.



### Use Cases

Practical use cases for social media and crowdsourcing in disasters.



### Crisis Communication

Recommendations for efficient risk communication in disasters.



Feel Safe



Including Citizens Handbook



Resilience Wheel



### Collection of Helpful Resources

Browse some interesting or relevant websites and apps.



### Collection of Networks

Communities and interest groups relevant for the context of social media in disaster management.

**Figure 3: Landing page of the Collection of Networks, Institutions and Communities**



## Collection of Networks, Institutions and Communities

The project's acronym LINKS suggests that the project is about developing links to various stakeholders, including other projects, networks and communities engaged in the disaster management area.

The following sections provide an overview of networks and interest groups which could be relevant in the context of social media in disaster management, or at least be interested in the further use of Social Media in their communication strategy.

### Networks of practitioners

- [International networks of practitioners](#)
- [Danish networks of practitioners](#)
- [Dutch networks of practitioners](#)
- [German networks of practitioners](#)
- [Italian networks of practitioners](#)

### Networks of Researchers (developers)

- [International networks of researchers](#)
- [European Research Projects on Disaster Resilient Societies](#)
- [Danish networks of researchers](#)
- [Dutch networks of researchers](#)
- [German networks of researchers](#)
- [Italian networks of researchers](#)

### Networks of Policy- & Decision-Makers

- [International networks of policy and decision makers](#)
- [Danish networks of policy and decision makers](#)
- [Dutch networks of policy and decision makers](#)
- [German networks of policy and decision makers](#)
- [Italian networks of policy and decision makers](#)

### Networks of Civil Society

- [International networks of Civil Society](#)
- [Danish networks of Civil Society](#)
- [Dutch networks of Civil Society](#)
- [German networks of Civil Society](#)
- [Italian networks of Civil Society](#)

### Disseminators

- [Media Associations](#)
- [Magazines & newspapers](#)
- [Radio & TV](#)

### Networks of Businesses

- [International networks of businesses](#)
- [Danish networks of businesses](#)
- [Dutch networks of businesses](#)
- [German networks of businesses](#)
- [Italian networks of businesses](#)

[SUGGEST A NEW NETWORK](#)

## 1.2 Reading guide

For getting an overview of which networks, institutions and communities have been contacted throughout the project duration by which partner, a spreadsheet in which each partner listed the number and purpose of the contacts has been used and updated since November 2022; in the annex the numerical results are listed in detail.

The data obtained are summarised into focus topics for international entities and target audiences for national stakeholders.

The contacts are categorised as follows:

- **INFORMED**
  - networks, institutions and communities to which the LINKS project and results have been communicated and disseminated to, but who did not have an active role in the project. This was done via social media coms, or the newsletter, media entities, etc.
- **PARTICIPATED**
  - networks, institutions and communities that have been invited to participate in research activities in the project, for informing and validating the project results. This could be as participants in interviews, surveys, LINKS Community Workshops (and other workshops), focus groups or other research activities.
- **EXPLOITING**
  - networks, institutions and communities which were exploiting or expected to exploit the project results.
- **COMMENT**
  - includes a short description of the activity and/or reason for contacting the networks, institutions and communities.

**Table 1: Layout of the networks, institutions and communities contact tables**

NETWORK TYPE	I	P	E	COMMENT
<b>Type 1</b>	1			Informed about the project
<b>Type 2</b>		1		Invited to participate in research activities
<b>Type 3</b>			1	Contact for exploitation

The status of the established contacts is represented in the same manner as in D7.7 in tables either

- by specific profession for the international networks, institutions and communities
  - for example, fire service, disaster management, crisis management etc.,
- by LINKS' target audience for the national networks, institutions and communities
  - for example, practitioner, researcher, civil society, etc.

This report is structured as follows:

- Section 2 deals with relevant international networks, institutions, and communities while section 3 deals with the national ones which were included as potential support for the Case Assessment Teams, who could benefit from the contacts in the network when carrying out their dissemination, exploitation, communication and research activities.
  - The tables provide a numerical overview about the variety of established contacts together with short statements about the undertaken activities.
- Section 4 deals with the activities undertaken with similar projects working together in Disaster Resilient Societies (DRS) clusters namely through activities under WP1 and WP9.
- Section 5 summarises the results of Task 7.5. and a conclusion is drawn on the extent to which the “Collection of Networks, Institutions and Communities” database has been as supportive as intended as a building block for the LINKS community.

## 2. NETWORKS, INSTITUTIONS AND COMMUNITIES ACTING ON AN INTERNATIONAL SCALE

This section describes which specific types of international networks have been informed about the project and/or invited to participate in research throughout the duration of the project. Furthermore, their potential as addressees for exploitation of the project results is indicated.

Because practitioners are considered as those which could take the most advantage of the results and recommendations of the LINKS project the consortium was busy in the last year of the project with several dissemination activities at various practitioners' conferences, e.g. at EENA 2023, JOIFF annual meeting 2023, vfdb Jahresfachtagung 2023, vgbf Tagung 2023, EFA roundtable 2023, EMRIC+ workshop, International Safety Education Seminar 2023.

Feedback received from the networks shows, that LINKS' products are considered useful and interesting. Positive feedback was received in various ways, e.g., in surveys when people stating that they want to be informed about the project, or orally at events when people stated that they consider the LCC as a valuable source for the use of Social Media in emergency response.

The reported number and types of contacts provided by the consortium slightly increased compared to the report in D7.7 and are displayed hereafter summarised into focus topics; the initial data are shown in the Annex ([Section 7.1](#))

In total a variety of stakeholders acting on an international scale have been collected as follows

- 80 international networks, institutions and communities representing the target groups of the LINKS project are listed in the LINKS Community Center
- 60 were at least informed via the LINKS official communication channels.
- 12 have been invited to participate in research activities in the project.
- 23 were exploiting or expected to exploit the project results.

## 2.1 Practitioner networks, institutions and communities



Organisations specialised in giving assistance in emergency situations.

**Table 2: International practitioner networks, institutions and communities contact overview**

NETWORK SPECIFICATION	I	P	E	COMMENT
<b>Fire and Rescue Services</b>	6	1	5	Informed and invited to participate in research activities. Positive feedback received after several presentations at conferences in 2023
<b>Medical Emergency Response &amp; Ambulance services</b>	2	1		Informed and invited to participate in research activities
<b>Disaster Management</b>	3	2	2	1 associated partner is regularly informed 1 represented in the LINKS Advisory Committee
<b>Water and Sea Rescue</b>	1			Contact on the LINKS official communication channels
<b>Police</b>	2		1	Contact on the LINKS official communication channels DHPol is German national contact

Type of contact(s): I=Informed; P=Participated; E=Exploiting

The names, acronyms and short description taken from the network's websites together with their available Facebook and Twitter accounts are embedded in the LCC and can be accessed via the link [https://links.communitycenter.eu/index.php/List\\_of\\_International\\_Practitioner\\_Networks](https://links.communitycenter.eu/index.php/List_of_International_Practitioner_Networks)

## 2.2 Developer networks, institutions and communities



Individual researchers, universities and academic groups working on different aspects in the field of disasters.

**Table 3: International developer networks, institutions and communities contact overview**

NETWORK SPECIFICATION	I	P	E	COMMENT
<b>Crisis management</b>	5	2	2	Contact on the LINKS official communication channels Active participation in events organised by CERIS and CMINE CMINE platform used for dissemination of LINKS results Informed and invited to participate in research activities
<b>Environmental research</b>	4		2	Contact on the LINKS official communication channels
<b>Information and Communication Technologies</b>	2		1	Contact on the LINKS official communication channels Active participation in events organised by EGU (European Geosciences Union Natural Hazards Division) and EUGEO (Association of Geographical Societies in Europe)
<b>Miscellaneous</b>	3		1	Contact on the LINKS official communication channels Participation in events organised by PSCE (Public Safety Communications Europe Forum) and EENA (European Number Association's Network of researchers)

Type of contact(s): I=Informed; P=Participated; E=Exploiting

The names, acronyms and short description taken from the network's websites together with their available Facebook and Twitter accounts are embedded in the LCC and can be accessed via the link: [https://links.communitycenter.eu/index.php/International\\_networks\\_of\\_researchers\\_on\\_crisis\\_management](https://links.communitycenter.eu/index.php/International_networks_of_researchers_on_crisis_management)

## 2.3 Policy and decision maker networks, institutions and communities



Legislative and executive bodies operating at different administrative levels.

**Table 4: International policy and decision makers networks, institutions and communities contact overview**

NETWORK SPECIFICATION	I	P	E	COMMENT
<b>Crisis management</b>	2	1	1	Contact on the LINKS official communication channels Informed and invited to participate in research activities Disaster Risk Management Knowledge Centre (DRMKC) platform used for dissemination of LINKS results
<b>Environment</b>	1			Contact on the LINKS official communication channels
<b>Security</b>	2			Contact on the LINKS official communication channels
<b>Information and Communication Technologies</b>	2	1		Contact on the LINKS official communication channels Informed and invited to participate in research activities
<b>Resilience</b>	3			Contact on the LINKS official communication channels
<b>Citizenship</b>	3		3	Participation in past/future LINKS events (e.g., NEEDS panel). CoE (Council of Europe) and CoR (Committee of Regions) could be relevant for exploitation

Type of contact(s): I=Informed; P=Participated; E=Exploiting

The names, acronyms and short description taken from the network's websites together with their available Facebook and Twitter accounts are embedded in the LCC and can be accessed via the link [https://links.communitycenter.eu/index.php/International\\_networks\\_of\\_policy\\_and\\_decision\\_makers](https://links.communitycenter.eu/index.php/International_networks_of_policy_and_decision_makers)



## 2.4 Businesses networks, institutions and communities



Small, medium and big enterprises in the field of social media and technologies.

**Table 5: International businesses networks, institutions and communities contact overview**

NETWORK SPECIFICATION	I	P	E	COMMENT
<b>Information and Communication Technologies</b>	3	1	1	Contact on the LINKS official communication channels Presentation at EENA Conference 2022 and a stand on 2023
<b>Insurance</b>	1			Contact on the LINKS official communication channels
<b>Critical Infrastructure</b>	2			Contact on the LINKS official communication channels
<b>Security and Safety</b>	1	1	1	DRS coordination and planning across cluster

Type of contact(s): I=Informed; P=Participated; E=Exploiting

The names, acronyms and short description taken from the network's websites together with their available Facebook and Twitter accounts are embedded in the LCC and can be accessed via the link [https://links.communitycenter.eu/index.php/International\\_networks\\_of\\_businesses](https://links.communitycenter.eu/index.php/International_networks_of_businesses)

## 2.5 Civil Society networks and communities



Citizens who at times of crises can provide important data and information.

**Table 6: International Civil Society networks and communities contact overview**

NETWORK SPECIFICATION	I	P	E	COMMENT
<b>Vulnerable groups</b>	6			Contact on the LINKS official communication channels
<b>Citizens and Science</b>	2			Contact on the LINKS official communication channels
<b>Digital volunteers</b>	1	1	1	Represented in LINKS Advisory Committee Contact on the LINKS official communication channels Informed and invited to participate in research activities
<b>Disaster risk reduction</b>	1			Contact on the LINKS official communication channels

Type of contact(s): I=Informed; P=Participated; E=Exploiting

The names, acronyms and short description taken from the network's websites together with their available Facebook and Twitter accounts are embedded in the LCC and can be accessed via the link [https://links.communitycenter.eu/index.php/International\\_networks\\_of\\_citizens](https://links.communitycenter.eu/index.php/International_networks_of_citizens)

## 2.6 Disseminators



Media informing about disasters.

**Table 7: International disseminators contact overview**

NETWORK SPECIFICATION	I	P	E	COMMENT
<b>Associations</b>	2			Contact on the LINKS official communication channels
<b>Magazines &amp; Newspapers</b>	4	1	2	1 Represented in LINKS Advisory Committee Contact on the LINKS official communication channels Potential publishers of LINKS' articles on results Informed and invited to participate in research activities

Type of contact(s): I=Informed; P=Participated; E=Exploiting

The names, acronyms and short description taken from the network's websites together with their available Facebook and Twitter accounts are embedded in the LCC as follows and can be accessed via the links:

- [https://links.communitycenter.eu/index.php/Media\\_Associations](https://links.communitycenter.eu/index.php/Media_Associations)
- [https://links.communitycenter.eu/index.php/Magazines\\_%26\\_newspapers](https://links.communitycenter.eu/index.php/Magazines_%26_newspapers)
- [https://links.communitycenter.eu/index.php/Radio\\_%26\\_TV](https://links.communitycenter.eu/index.php/Radio_%26_TV)

### 3. NETWORKS, INSTITUTIONS AND COMMUNITIES ACTING ON A NATIONAL SCALE

This section describes which national networks in the 4 case countries have been informed about the project and/or invited to participate in research throughout the duration of the project by the Case Assessment Teams (CATs). The focus was on those networks which were considered relevant for the particular case study.

In the last 12 months of the project exploitation activities slightly increased.

The data are condensed and displayed in the tables per target audience; the initial data are shown in the Annex ([Section 7.2](#))

In total a variety of stakeholders acting on a national scale have been collected as follows:

- 186 national networks, institutions and communities representing the target groups of the LINKS project are listed in the LINKS Community Center
  - 38 Danish, 74 German, 40 Italian, 34 Dutch
- 90 were at least informed by the various partners in the 4 case countries.
- 72 have been invited to participate in research activities in the project, for informing and validating the project results.
- 39 were exploiting or expected to exploit the project results.

## 3.1 Denmark

**Table 8: Danish networks, institutions and communities contact overview**

TARGET AUDIENCE	I	P	E	COMMENT
<b>Practitioners</b>	6	3	6	Informed and invited to participate in research activities
<b>Developers</b>	1		1	Informed and invited to participate in research activities Exploitation in 2023/2024
<b>Policy and Decision Makers</b>	4	2	1	Informed and invited to participate in research activities Exploitation in 2023/2024
<b>Businesses</b>	4	4	2	Informed and invited to participate in research activities Exploitation in 2023/2024
<b>Civil Society</b>	1	1		Informed and invited to participate in research activities
<b>Disseminators</b>	3			Contacts with 2 regional TV and radio stations and a local newspaper

Type of contact(s): I=Informed; P=Participated; E=Exploiting

The names, acronyms and short description taken from the network's websites together with their available Facebook and Twitter accounts are embedded in the LCC and can be accessed via the links

- [https://links.communitycenter.eu/index.php/List\\_of\\_Danish\\_Practitioner\\_Networks](https://links.communitycenter.eu/index.php/List_of_Danish_Practitioner_Networks)
- [https://links.communitycenter.eu/index.php/Danish\\_networks\\_of\\_researchers](https://links.communitycenter.eu/index.php/Danish_networks_of_researchers)
- [https://links.communitycenter.eu/index.php/Danish\\_networks\\_of\\_policy\\_and\\_decision\\_makers](https://links.communitycenter.eu/index.php/Danish_networks_of_policy_and_decision_makers)
- [https://links.communitycenter.eu/index.php/Danish\\_networks\\_of\\_businesses](https://links.communitycenter.eu/index.php/Danish_networks_of_businesses)
- [https://links.communitycenter.eu/index.php/Danish\\_networks\\_of\\_citizens](https://links.communitycenter.eu/index.php/Danish_networks_of_citizens)

## 3.2 Germany

**Table 9: German networks, institutions and communities contact overview**

TARGET AUDIENCE	I	P	E	COMMENT
<b>Practitioners</b>	15	15	2	1 Represented in LINKS Advisory Committee Informed and invited to participate in research activities Presentation accepted at vfdb conference 2023
<b>Developers</b>	6	6	4	2 represented in LINKS Advisory Committee Informed and invited to participate in research activities
<b>Policy and Decision Makers</b>	7	7	2	Informed and invited to participate in research activities
<b>Businesses</b>	1	1	1	1 SME Represented in LINKS Advisory Committee
<b>Civil Society</b>	7	7	1	1 Represented in LINKS Advisory Committee Informed and invited to participate in research activities

Type of contact(s): I=Informed; P=Participated; E=Exploiting

The names, acronyms and short description taken from the network's websites together with their available Facebook and Twitter accounts are embedded in the LCC and can be accessed via the links

- [https://links.communitycenter.eu/index.php/List\\_of\\_German\\_Practitioner\\_Networks](https://links.communitycenter.eu/index.php/List_of_German_Practitioner_Networks)
- [https://links.communitycenter.eu/index.php/German\\_networks\\_of\\_researchers](https://links.communitycenter.eu/index.php/German_networks_of_researchers)
- [https://links.communitycenter.eu/index.php/German\\_networks\\_of\\_policy\\_and\\_decision\\_makers](https://links.communitycenter.eu/index.php/German_networks_of_policy_and_decision_makers)
- [https://links.communitycenter.eu/index.php/German\\_networks\\_of\\_businesses](https://links.communitycenter.eu/index.php/German_networks_of_businesses)
- [https://links.communitycenter.eu/index.php/German\\_networks\\_of\\_citizens](https://links.communitycenter.eu/index.php/German_networks_of_citizens)

### 3.3 Italy

**Table 10: Italian networks, institutions and communities contact overview**

TARGET AUDIENCE	I	P	E	COMMENT
<b>Practitioners</b>	3	3	3	1 Represented in LINKS Advisory Committee Informed and participated in research activities
<b>Developers</b>	1	1	1	1 Represented in LINKS Advisory Committee Informed and participated in research activities
<b>Policy and Decision Makers</b>	5	5	3	Informed and participated in research activities
<b>Civil Society</b>	2	2	3	Informed and participated in research activities
<b>Disseminators</b>	4		1	Informed

Type of contact(s): I=Informed; P=Participated; E=Exploiting

The names, acronyms and short description taken from the network's websites together with their available Facebook and Twitter accounts are embedded in the LCC and can be accessed via the links

- [https://links.communitycenter.eu/index.php/List\\_of\\_Italian\\_Practitioner\\_Networks](https://links.communitycenter.eu/index.php/List_of_Italian_Practitioner_Networks)
- [https://links.communitycenter.eu/index.php/Italian\\_networks\\_of\\_researchers](https://links.communitycenter.eu/index.php/Italian_networks_of_researchers)
- [https://links.communitycenter.eu/index.php/Italian\\_networks\\_of\\_policy\\_and\\_decision\\_makers](https://links.communitycenter.eu/index.php/Italian_networks_of_policy_and_decision_makers)
- [https://links.communitycenter.eu/index.php/Italian\\_networks\\_of\\_businesses](https://links.communitycenter.eu/index.php/Italian_networks_of_businesses)
- [https://links.communitycenter.eu/index.php/Italian\\_networks\\_of\\_citizens](https://links.communitycenter.eu/index.php/Italian_networks_of_citizens)

## 3.4 Netherlands

**Table 11: Dutch networks, institutions and communities contact overview**

TARGET AUDIENCE	I	P	E	COMMENT
<b>Practitioners</b>	7	5	1	1 Represented in LINKS Advisory Committee Informed and invited to participate in research activities Presentation of app to coordinate volunteers
<b>Developers</b>	2	1	1	Informed and participated in research activities
<b>Policy and Decision Makers</b>	7	5	4	Informed and participated in research activities Presentation at conference
<b>Businesses</b>	4	4	2	1 partner in LINKS Informed and participated in research activities

Type of contact(s): I=Informed; P=Participated; E=Exploiting

The names, acronyms and short description taken from the network's websites together with their available Facebook and Twitter accounts are embedded in the LCC and can be accessed via the links

- [https://links.communitycenter.eu/index.php/List\\_of\\_Dutch\\_Practitioner\\_Networks](https://links.communitycenter.eu/index.php/List_of_Dutch_Practitioner_Networks)
- [https://links.communitycenter.eu/index.php/Dutch\\_networks\\_of\\_researchers](https://links.communitycenter.eu/index.php/Dutch_networks_of_researchers)
- [https://links.communitycenter.eu/index.php/Dutch\\_networks\\_of\\_policy\\_and\\_decision\\_makers](https://links.communitycenter.eu/index.php/Dutch_networks_of_policy_and_decision_makers)
- [https://links.communitycenter.eu/index.php/Dutch\\_networks\\_of\\_businesses](https://links.communitycenter.eu/index.php/Dutch_networks_of_businesses)
- [https://links.communitycenter.eu/index.php/Dutch\\_networks\\_of\\_citizens](https://links.communitycenter.eu/index.php/Dutch_networks_of_citizens)



## 4. EU-PROJECTS RELEVANT FOR LINKS

Relevant EU-projects are those which could disseminate the project's results and cooperate in similar areas of interest and towards common goals. It was foreseen based on this, to establish integration points on conceptual and practical levels and to identify and use potential synergies.

In this period LINKS was particularly engaged with projects belonging to the same DRS-01<sup>4</sup> cluster – now identified as the Societal Resilience Cluster (SRC) and steered by the Resilience Advisors Network (CMINE). LINKS was a key partner steering activities in the cluster, such as the policy working group.

LINKS also engaged with other project clusters for instance in areas of Technologies for first responders and CBRNe (DRS-02), namely through events organized by sister SRC projects and the CERIS initiative (Community of European Research and Innovation for Security).

### 4.1 Social Resilience Cluster

The Societal Resilience Cluster (SRC) is the group of projects funded under Horizon 2020 and Horizon Europe Calls DRS (Disaster Resilience Societies) 01, which have in common the focus on secure societies, and in particular on the human factors, and social, societal, and organisational aspects of disaster-resilient societies. To create a more sustainable and bigger impact, the projects decided to share their ideas, results, lessons learned and progress. Furthermore, they were able to form working groups on different cross-cutting topics, up to in the next future, and prepare policy recommendations. These objectives are of such paramount importance that the SRC Cluster is endorsed by REA and DGHOME.

Besides LINKS, the other EU projects part of the Cluster are:

- BUILDERS (Building European Communities' Resilience and Social Capital)
- CORE (Science& Human Factor for Resilient Society)
- ENGAGE (Engage Society for Risk Awareness and Resilience)
- RESILOC (Resilient Europe and Societies by Innovating Local Communities)
- RISKPACC (Risk Perception Action Gap)
- MEDIATE (Multi-hazard and Risk-informed System for Enhanced Local and Regional Disaster Risk Management)
- PARATUS (Promoting disaster preparedness and resilience by co-developing stakeholder support tools for managing the systemic risk of compounding disasters)
- A number of new projects are also in the process of joining the cluster including THE HUT, DIRECTED, C2IMPRESS, and MYRIAD.

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<sup>4</sup> [https://links.communitycenter.eu/index.php?title=European Research Projects on Disaster Resilient Societies](https://links.communitycenter.eu/index.php?title=European_Research_Projects_on_Disaster_Resilient_Societies)

Many dissemination and communication activities have been conducted by this Cluster since the last report (D7.7).

Among them:

- Monthly SRC meetings and working groups across the projects.
- Joined participation in dissemination at EENA conference April 2023.
- SRC policy working group meetings in Toulouse and Amsterdam, leading to a joined policy brief and potentially a white paper.
- Joined LINKS and ENGAGE Advisory board meeting and workshop in Rotterdam in June 2023.
- Participation in project events and webinars such as:
  - CORE Policy Event – Brussels September 2023
  - ENGAGE Landslide Exercise – Trondheim September 2023
  - ENGAGE Webinar – October 2023
  - LINKS Final Event – Rome October 2023
  - ENGAGE Final Event – Brussels November 2023
  - NEEDS Conference Panel – Twente November 2023
- Joined participation in the Horizon Booster Service leading to cluster promotional materials.
- Spin-off project from LINKS involving many past/ongoing DRS-01 projects: SYNERGIES starting December 2023.

## 4.2 CERIS

LINKS has also been very engaged with the CERIS (Community of European Research and Innovation for Security) led by DGHOME. Through these events they have engaged with various projects also from different clusters (e.g. DRS-02), and institutions (e.g. DGHOME, DGECHO, JRC). Some past initiatives in this period include:

- Joined participation and organization by SRC cluster at the CERIS Toulouse event in May 2023, and feedback on the final report.
- Joined participation and organization of the CERIS DRS Week in Brussels December 2023.
- Joined contribution to CERIS Annual Report (pending 2024).

## 5. CONCLUSION

The present deliverable reports on the established relations during the entire project with relevant networks, institutions and communities on international level and those realized in the 4 “case countries” Denmark, Germany, Italy and Netherlands.

Currently, the database includes more than 250 stakeholder groups and - as outlined in D8.3 (Reeson, K; 2023) - has become a corner stone of the LINKS Community building strategy.

Relations with other EU projects from the Disaster-Resilient Societies (DRS) clusters were most efficient to establish because of the common interest and the most important ones for using synergies. In 2023 LINKS was particularly engaged with projects belonging to the Societal Resilience Cluster (SRC). Particularly noteworthy is the LINKS spin-off project, which involves many former/ongoing DRS-01 projects: SYNERGIES from December 2023.

Relations with international practitioner networks were intensified in 2023 by giving several presentations of project results at their conferences, e.g. at EENA 2023, JOIFF annual meeting 2023, vfdb Jahresfachtagung 2023, vgbf Tagung 2023, EFA roundtable 2023, EMRIC+ workshop. An extraordinary example of newly established relations in the course of the project is the relation between the Fire Safety Alliance (FSA), FEU and the Italian partner Save the Children Italy (SCIT). The LINKS product Feel Safe developed by SCIT won the international competition for the best community fire safety project 2023 launched by FSA and FEU. The price was given in November at the International Safety Education Seminar 2023 in Linz.

72 national networks listed in the database participated in research activities. The Case Assessment Teams in the Netherlands and Italy had a special focus in their research on vulnerable groups, especially children.

Compared with the findings in D7.7. project partners consider an increasing number of national networks as potential addressees for exploitation after the end of the project.

It must be stated that the full potential of cooperation with the networks could not be used during the project for various reasons. Unfortunately, the COVID-19 crisis did not allow to attend more in-person-events organized by some of the stakeholders listed in LCC. Undoubtedly this would have resulted in even closer cooperation with them and would also increase the likelihood for exploitation.

Nevertheless, the confirmation of the PARATUS project to embed the database in their development of a Stakeholder Hub which will help individuals and those representing organisations to create a dynamic network of those interested in contributing to Societal Resilience is an indicator

for the usefulness of the "Collection of Networks, Institutions and Communities" beyond the project duration.

The process of systematically contacting the listed entities will continue after the end of the project. A focus for future cooperation should be then on contacts with international networks, institutions and communities which are representing vulnerable groups and have not been actively involved in LINKS' research activities to date.

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## 7. ANNEX

### 7.1 International networks, institutions and communities contact tables

This section provides an overview of the number of partners who have established contacts with stakeholders of specific professions.

#### 7.1.1 Practitioner networks, institutions and communities



Organisations specialised in giving assistance in emergency situations.

**Table 12: International practitioner networks, institutions and communities contact details**

FOCUS	NETWORK	I	P	E	COMMENT
<b>Fire and rescue services</b>	FEU Federation of European fire officers	1	1	1	LINKS partner
	CTIF International Association of Fire & Rescue Services	2		1	Contact via email and the official LINKS communication channels Informal information about LINKS at a conference
	EFSA European Fire Safety Alliance	1		1	Contact via email and the official LINKS communication channels FEEL Safe initiative was awarded community safety price at Fire Safety Seminar 2023
	JOIFF International Organisation for Industrial Emergency Services Management	2		1	Contact via email and via the official LINKS communication channels A paper was presented by partner FEU at their annual conference in March 2023
	EØA European Fire Academy	1		1	Contact via email A paper was presented by partner FEU at their annual conference in October 2023
	EFSCA European Fire Service Colleges' Association	1			Contact via email and via the official LINKS communication channels Informal information about LINKS at an online meeting

Type of contact(s): I=Informed; P=Participated; E=Exploiting

The names, acronyms and short description taken from the network's websites together with their available Facebook and Twitter accounts are embedded in the LCC and can be accessed via the link: [https://links.communitycenter.eu/index.php/List of International Practitioner Networks](https://links.communitycenter.eu/index.php/List_of_International_Practitioner_Networks)

FOCUS	NETWORK	I	P	E	COMMENT
<b>Medical Emergency Response &amp; Ambulance services</b>	ICRC International Committee of Red Cross	1			Contact on the LINKS official communication channels
	Project HOPE People to people health foundation	2	1		Contact on the LINKS official communication channels Informed and invited to participate in research activities
<b>Disaster Management</b>	GDPC Global Disaster Preparedness Center	1			Contact on the LINKS official communication channels
	DPPI SEE Disaster Preparedness and Prevention Initiative	1	1	1	LINKS associated partner
	ESSN - Emergency Services Staff Network	1	1	1	Represented in the LINKS Advisory Committee Stand at the EENA Conference April 2023
<b>Water and Sea rescue</b>	IMRF International Maritime Rescue Federation	1			Contact on the LINKS official communication channels
<b>Police</b>	CEPOL College Europeen de Police	2		1	Contact on the LINKS official communication channels DHPol is German member
	INTERPOL International Criminal Police Organisation	1			Contact on the LINKS official communication channels

Type of contact(s): I=Informed; P=Participated; E=Exploiting

The names, acronyms and short description taken from the network's websites together with their available Facebook and Twitter accounts are embedded in the LCC and can be accessed via the link: [https://links.communitycenter.eu/index.php/List\\_of\\_International\\_Practitioner\\_Networks](https://links.communitycenter.eu/index.php/List_of_International_Practitioner_Networks)

## 7.1.2 Developer networks, institutions and communities



Individual researchers, universities and academic groups working on different aspects in the field of disasters.

**Table 13: International developer networks, institutions and communities contact details**

FOCUS	NETWORK	I	P	E	COMMENT
<b>Crisis management</b>	CERIS Community of European Research and Innovation for Security	3		2	Contact on the LINKS official communication channels + active participation in events organised by CERIS
	CMINE Crisis Management Innovation Management Europe	3	2	3	Contact on the LINKS official communication channels + use of their platform to disseminate LINKS results and events. Informed and invited to participate in research activities
	IDRIM International Society for Integrated Disaster Risk Management	1			Contact on the LINKS official communication channels
	EJRC Joint Research Centre	1			Contact on the LINKS official communication channels
	ICRCC International Crisis and Risk Communication Conference	1			Contact on the LINKS official communication channels

Type of contact(s): I=Informed; P=Participated; E=Exploiting

The names, acronyms and short description taken from the network's websites together with their available Facebook and Twitter accounts are embedded in the LCC and can be accessed via the link: [https://links.communitycenter.eu/index.php/International\\_networks\\_of\\_researchers\\_on\\_crisis\\_management](https://links.communitycenter.eu/index.php/International_networks_of_researchers_on_crisis_management)



FOCUS	NETWORK	I	P	E	COMMENT
<b>Natural Hazards</b>	CRED Centre for Research on the Epidemiology of Disasters	1			Contact on the LINKS official communication channels + active participation in events organised by them
	EEA European Environment Agency	1			Contact on the LINKS official communication channels
	EGU European Geosciences Union	1		1	Contact on the LINKS official communication channels + active participation in events organised by them
	EUGEO Association of Geographical Societies in Europe	1		1	Contact on the LINKS official communication channels + active participation in events organised by them
<b>Information and Communication Technologies</b>	ISCRAM Information Systems for Crisis Response and Management	3		1	Contact on the LINKS official communication channels SIC published a paper at ISCRAM 2022
	ACM Association for Computing Machinery	1			Contact on the LINKS official communication channels
<b>Miscellaneous</b>	PSCE Public Safety Communications Europe Forum	1			Contact established at CERIS events
	EENA- European Emergency Number Association Researchers	2	1	2	Contact established at EENA events in 2022 and 2023 Informed and invited to participate in research activities (ENGAGE project)
	QUORA Question-and-answers network	1			Contact on the LINKS official communication channels

Type of contact(s): I=Informed; P=Participated; E=Exploiting

The names, acronyms and short description taken from the network's websites together with their available Facebook and Twitter accounts are embedded in the LCC and can be accessed via the link: [https://links.communitycenter.eu/index.php/International\\_networks\\_of\\_researchers\\_on\\_crisis\\_management](https://links.communitycenter.eu/index.php/International_networks_of_researchers_on_crisis_management)

### 7.1.3 Policy and decision maker networks, institutions and communities



Legislative and executive bodies operating at different administrative levels.

**Table 14: International policy and decision maker networks, institutions and communities contact details**

FOCUS	NETWORK	I	P	E	COMMENT
<b>Crisis management</b>	CPKN Civil Protection Knowledge Network DG Echo	3	1	1	Contact on the LINKS official communication channels + use of their platform to disseminate LINKS results Informed and invited to participate in research activities
	DRMKC Disaster Risk Management Knowledge Centre	1		1	Contact on the LINKS official communication channels + use of their platform to disseminate LINKS results
<b>Environment</b>	EEA European Environment Agency	1			Contact on the LINKS official communication channels
<b>Security</b>	EUROPOL European Union Agency for Law Enforcement Cooperation	1			Contact on the LINKS official communication channels
	EUISS European Union Institute for Security Studies	1			Contact on the LINKS official communication channels
<b>Information and Communication Technologies</b>	ENISA European Union Agency for Cybersecurity	1			Contact on the LINKS official communication channels
	Major Cities of Europe IT User Group	1	1		Informed and invited to participate in research activities

Type of contact(s): I=Informed; P=Participated; E=Exploiting

The names, acronyms and short description taken from the network's websites together with their available Facebook and Twitter accounts are embedded in the LCC and can be accessed via the link: [https://links.communitycenter.eu/index.php/International\\_networks\\_of\\_policy\\_and\\_decision\\_makers](https://links.communitycenter.eu/index.php/International_networks_of_policy_and_decision_makers)

FOCUS	NETWORK	I	P	E	COMMENT
<b>Resilience</b>	UCLG United Cities of Local Governments	1			Contact on the LINKS official communication channels
	Resilience Cities Network	1			Contact on the LINKS official communication channels Outputs from the network is used (Resilience Wheel)
	CDRI Coalition for Disaster Resilient Infrastructure	1			Contact on the LINKS official communication channels
<b>Citizenship</b>	CEMR / CCRE Council of European Municipalities and Regions			1	Could be relevant for exploitation of results.
	CoE Council of Europe	1		1	Participation in past/future LINKS events (e.g., NEEDS panel). Could be relevant for exploitation of results especially related to education
	CoR Committee of Regions			1	Could be relevant for exploitation of results

Type of contact(s): I=Informed; P=Participated; E=Exploiting

The names, acronyms and short description taken from the network's websites together with their available Facebook and Twitter accounts are embedded in the LCC and can be accessed via the link:

[https://links.communitycenter.eu/index.php/International\\_networks\\_of\\_policy\\_and\\_decision\\_makers](https://links.communitycenter.eu/index.php/International_networks_of_policy_and_decision_makers)

### 7.1.4 Businesses networks, institutions and communities



Small, medium and big enterprises in the field of social media and technologies.

**Table 15: International businesses networks, institutions and communities contact details**

FOCUS	NETWORK	I	P	E	COMMENT
<b>Information and Communication Technologies</b>	ACM Association for Computing Machinery	1			Contact on the LINKS official communication channels
	PEMEA Pan-European Mobile Emergency Application Consortium	1			Contact on the LINKS official communication channels
	EENA European Emergency Number Association IT solution providers	3	1	3	Contact on the LINKS official communication channels + participation in EENA events. SIC presented LINKS at the EENA Conference
<b>Critical Infrastructure</b>	CFPA Europe Confederation of Fire Protection Associations Europe	1			Contact on the LINKS official communication channels
<b>Critical Infrastructure</b>	UIC International Union of Railways	1			Contact on the LINKS official communication channels
	UITP Union Internationale des Transports Publics	1			Contact on the LINKS official communication channels
<b>Security &amp; Safety</b>	RAN Resilience Advisors Network	2	1	2	Meetings with SIC and RAN took place to discuss and elaborate on technical collaboration and personal contacts at conferences CERIS and other Events/Panel promotion DRS coordination and planning across cluster.

Type of contact(s): I=Informed; P=Participated; E=Exploiting

The names, acronyms and short description taken from the network's websites together with their available Facebook and Twitter accounts are embedded in the LCC and can be accessed via the link: [https://links.communitycenter.eu/index.php/International\\_networks\\_of\\_businesses](https://links.communitycenter.eu/index.php/International_networks_of_businesses)

## 7.1.5 Civil Society networks and communities



Citizens who at times of crises can provide important data and information.

**Table 16: International Civil Society networks and communities contact details**

FOCUS	NETWORK	I	P	E	COMMENT
<b>Vulnerable people</b>	EDF European Disability Forum	1			Contact on the LINKS official communication channels
	DCDD Dutch Coalition on Disability and Development	1			Contact on the LINKS official communication channels
	EUD European Union of the Deaf	1			Contact on the LINKS official communication channels
	EFHOH European Federation of Hard of Hearing People	1			Contact on the LINKS official communication channels
	EBU European Blind Union	1			Contact on the LINKS official communication channels
	ASHA American Speech-Language-Hearing Association	1			Contact on the LINKS official communication channels

Type of contact(s): I=Informed; P=Participated; E=Exploiting

The names, acronyms and short description taken from the network's websites together with their available Facebook and Twitter accounts are embedded in the LCC and can be accessed via the link [https://links.communitycenter.eu/index.php/International\\_networks\\_of\\_citizens](https://links.communitycenter.eu/index.php/International_networks_of_citizens)

FOCUS	NETWORK	I	P	E	COMMENT
<b>Citizens and Science</b>	CSA Citizen Science Association	1			Contact on the LINKS official communication channels
	ECSA European Citizen Science Association	1			Contact on the LINKS official communication channels
<b>Digital volunteers</b>	Crisis Mappers Net	1			Contact on the LINKS official communication channels
	VOST Europe	3	2	2	Represented in the LINKS Advisory Committee Contact on the LINKS official communication channels Informed and invited to participate in research activities Contributed to the Use Case Library in the LCC
<b>Disaster reduction</b>	GNDR Global Network of Civil Society Organisations for Disaster Reduction	1			Contact on the LINKS official communication channels

Type of contact(s): I=Informed; P=Participated; E=Exploiting

The names, acronyms and short description taken from the network's websites together with their available Facebook and Twitter accounts are embedded in the LCC and can be accessed via the link [https://links.communitycenter.eu/index.php/International\\_networks\\_of\\_citizens](https://links.communitycenter.eu/index.php/International_networks_of_citizens)

## 7.1.6 Disseminators



Media informing about disasters.

**Table 17: International disseminators networks contact details**

FOCUS	NETWORK	I	P	E	COMMENT
<b>Associations</b>	INMA International News Media Association	1			Contact on the LINKS official communication channels
	EJC European Journalism Centre	1			Contact on the LINKS official communication channels
	DataJournalism.com	1			Contact on the LINKS official communication channels
<b>Magazines &amp; Newspapers</b>	CRJ Crisis Response Journal	1	1	1	Represented in the LINKS Advisory Committee
	EMJ Emergency Medicine Journal	1			Contact on the LINKS official communication channels
	IJDRR International Journal of Disaster Risk Reduction	2		1	Contact on the LINKS official communication channels Potential publishers of LINKS' articles on results
	CIWEM Journal of Flood Risk Management	1			Contact on the LINKS official communication channels

Type of contact(s): I=Informed; P=Participated; E=Exploiting

The names, acronyms and short description taken from the network's websites together with their available Facebook and Twitter accounts are embedded in the LCC as follows and can be accessed via the links:

- Associations
  - o [https://links.communitycenter.eu/index.php/Media\\_Associations](https://links.communitycenter.eu/index.php/Media_Associations)
- Newspapers
  - o [https://links.communitycenter.eu/index.php/Magazines %26 newspapers](https://links.communitycenter.eu/index.php/Magazines_%26_newspapers)
- and Radio & TV
  - o [https://links.communitycenter.eu/index.php/Radio %26 TV](https://links.communitycenter.eu/index.php/Radio_%26_TV)

## 7.2 National networks, institutions and communities contact tables

This section provides an overview of the number of partners who contacted stakeholders of specific professions, where these were deemed relevant to the case studies.

### 7.2.1 Denmark

**Table 18: Danish practitioner and developer networks, institutions and communities contact details**

FOCUS	NETWORK	I	P	E	COMMENT <sup>5</sup>
<b>Practitioner</b>					
<b>Medical Emergency Response &amp; Ambulance services</b>	Røde Kors	1	1	1	Informed and invited to participate in research activities
	Capital Region of Denmark, Prehospital Unit	1	1	1	Informed and invited to participate in research activities
<b>Crisis Management</b>	DEMA Danish Emergency Management Agency	2	1	1	Informed and invited to participate in research activities
	Danske Beredskaber Municipal emergency units	1		1	Informed about the project
<b>Police</b>	Politi	2		1	Informed about the project
	Copenhagen Police	1		1	Informed about the project
<b>Developer</b>					
<b>Natural Hazards</b>	DMI Danmarks Meteorologiske Institut	1		1	Informed about the project

Type of contact(s): I=Informed; P=Participated; E=Exploiting

The names, acronyms and short description taken from the network's websites together with their available Facebook and Twitter accounts are embedded in the LCC and can be accessed via the links:

- [https://links.communitycenter.eu/index.php/List\\_of\\_Danish\\_Practitioner\\_Networks](https://links.communitycenter.eu/index.php/List_of_Danish_Practitioner_Networks)
- [https://links.communitycenter.eu/index.php/Danish\\_networks\\_of\\_researchers](https://links.communitycenter.eu/index.php/Danish_networks_of_researchers)

<sup>5</sup> The Danish partners did not provide any comments because of privacy concerns



**Table 19: Danish policy and decision maker and business networks, institutions and communities and disseminators contact details**

FOCUS	NETWORK	I	P	E	COMMENT
<b>Policy and Decision makers</b>					
<b>Crisis Management</b>	DEMA Danish Emergency Management Agency	1	1	1	Informed and invited to participate in research activities
<b>Public Administration</b>	KL Local Government Denmark	1	1	1	Informed and invited to participate in research activities
	Sundhedsstyrelsen Danish Health Authority	1	1		Informed and invited to participate in research activities
	Newtodenmark.dk Danish Immigration Service	1	1		Informed and invited to participate in research activities
<b>Businesses</b>					
<b>Critical Infrastructure</b>	Energistyrelsen	1	1	1	Informed and invited to participate in research activities
	Trafikstyrelsen	1	1	1	Informed and invited to participate in research activities
	HOFOR Greater Copenhagen Utility	2			Informed and invited to participate in research activities
	Frederiksberg Forsyning Frederiksberg utility company	3		1	Informed and invited to participate in research activities
<b>Disseminators</b>					
<b>Magazines &amp; Newspapers</b>	Frederiksberg LIV Local newspaper	1			Informed about the project
<b>Radio &amp; TV</b>	TV2 Lorry Regional TV station	1			Informed about the project
	DR P4 Regional Radio Broadcast	1			Informed about the project

Type of contact(s): I=Informed; P=Participated; E=Exploiting

The names, acronyms and short description taken from the network's websites together with their available Facebook and Twitter accounts are embedded in the LCC and can be accessed via the links:

- [https://links.communitycenter.eu/index.php/Danish\\_networks\\_of\\_policy\\_and\\_decision\\_makers](https://links.communitycenter.eu/index.php/Danish_networks_of_policy_and_decision_makers)
- [https://links.communitycenter.eu/index.php/Danish\\_networks\\_of\\_businesses](https://links.communitycenter.eu/index.php/Danish_networks_of_businesses)
- [https://links.communitycenter.eu/index.php/Danish\\_networks\\_of\\_citizens](https://links.communitycenter.eu/index.php/Danish_networks_of_citizens)

## 7.2.2 Germany

**Table 20: German practitioner networks, institutions and communities contact details**

FOCUS	NETWORK	I	P	E	COMMENT
<b>Practitioner</b>					
<b>Fire and rescue services</b>	vfdb Vereinigung zur Förderung des deutschen Brandschutzes	1	1	1	Represented in the LINKS Advisory Committee Presentation at Jahresfachtagung 2023
	AGBF Arbeitsgemeinschaft der Leiter der Berufsfeuerwehren	2	1		Informed and invited to participate in research activities
	DFV Deutscher Feuerwehrverband	1	1		Informed and invited to participate in research activities
	Netzwerk Berufsfeuerwehr	2	2		Informed and invited to participate in research activities
	VdF NW Verband der Feuerwehren Nordrhein-Westfalen	1	1		Informed and invited to participate in research activities
<b>Medical Emergency Response &amp; Ambulance services</b>	DRK Deutsches Rotes Kreuz	1	1		Informed and invited to participate in research activities
	BRK Bayerisches Rotes Kreuz	1	1		Informed and invited to participate in research activities
	ASB Arbeiter-Samariter Bund	1	1		Informed and invited to participate in research activities
	MHD Malteser Hilfsdienst	1	1		Informed and invited to participate in research activities
	JUH Die Johanniter	2	1		Informed and invited to participate in research activities

Type of contact(s): I=Informed; P=Participated; E=Exploiting

The names, acronyms and short description taken from the network's websites together with their available Facebook and Twitter accounts are embedded in the LCC and can be accessed via the link: [https://links.communitycenter.eu/index.php/List\\_of\\_German\\_Practitioner\\_Networks](https://links.communitycenter.eu/index.php/List_of_German_Practitioner_Networks)

FOCUS	NETWORK	I	P	E	COMMENT
<b>Civil protection forces</b>	THW Technisches Hilfswerk	2	2	1	Informed and invited to participate in research activities Presentation at vfdb conference 2023
<b>Police</b>	BKA Bundeskriminalamt	1	1		Informed and invited to participate in research activities
	Polizei Nordrhein- Westfalen	1	1		Informed and invited to participate in research activities
	Polizei Hessen	1	1		Informed and invited to participate in research activities
	Polizei Bayern	1	1		Informed and invited to participate in research activities

Type of contact(s): I=Informed; P=Participated; E=Exploiting

The names, acronyms and short description taken from the network's websites together with their available Facebook and Twitter accounts are embedded in the LCC and can be accessed via the links:

- [https://links.communitycenter.eu/index.php/List\\_of\\_German\\_Practitioner\\_Networks](https://links.communitycenter.eu/index.php/List_of_German_Practitioner_Networks)

**Table 21: German developers and policy and decision maker networks, institutions and communities contact details**

FOCUS	NETWORK	I	P	E	COMMENT
<b>Developer</b>					
<b>Crisis Management</b>	Fire Service Science Institute Wuppertal	1	1		Informed and invited to participate in research activities
	UFZ Helmholtz Centre for Environmental Research	1	1		Informed and invited for participation at a drought-related survey in September 2023
<b>Information and Communication Technologies</b>	DGSMTech	1	1	1	Engaged in workshops
	ERCIS	1	1	1	Represented in the LINKS Advisory Committee
<b>Miscellaneous</b>	ISI Fraunhofer Institute for Systems and Innovation	1	1	1	Represented in the LINKS Advisory Committee
	OWMS Organisational and Business Psychology University of Münster	1	1	1	Represented in the LINKS Advisory Committee
<b>Policy and Decision makers</b>					
<b>Disaster Management</b>	BBK Bundesamt für Bevölkerungsschutz und Katastrophenhilfe	2	2	1	Informed and participated in research activities
	THW Technisches Hilfswerk	2	2	1	Informed and invited to participate in research activities
	UBA Umweltbundesamt	1	1		Informed and invited for participation at a drought-related survey in September 2023
	DWD Deutscher Wetterdienst	1	1		Informed and invited for participation at a drought-related survey in September 2023
<b>Public Administration</b>	Deutscher Staedtetag	1	1		Informed and invited to participate in research activities
	Deutscher Staedte- und Gemeindebund	1	1		Informed and invited to participate in research activities
	Deutscher Landkreistag	1	1		Informed and invited to participate in research activities

Type of contact(s): I=Informed; P=Participated; E=Exploiting

The names, acronyms and short description taken from the network's websites together with their available Facebook and Twitter accounts are embedded in the LCC and can be accessed via the links:

- [https://links.communitycenter.eu/index.php/German\\_networks\\_of\\_researchers](https://links.communitycenter.eu/index.php/German_networks_of_researchers)
- [https://links.communitycenter.eu/index.php/German\\_networks\\_of\\_policy\\_and\\_decision\\_makers](https://links.communitycenter.eu/index.php/German_networks_of_policy_and_decision_makers)

**Table 22: German businesses, Civil Society networks, institutions and communities contact details**

FOCUS	NETWORK	I	P	E	COMMENT
<b>Businesses</b>					
<b>Crisis Communication</b>	Vor der Lage ( SME )	1	1	1	Represented in the LINKS Advisory Committee
<b>Civil Society</b>					
<b>Digital Volunteers</b>	VOST_de Virtual Operations Support Team from THW	1	1	1	Represented in the LINKS Advisory Committee
	VOSThh Virtual Operations Support Team from 'Hamburg' - state	1	1		Informed and invited to participate in research activities
	VOSTbw Virtual Operations Support Team from 'Baden-Württemberg' - state	1	1		Engaged in Interviews, informed and invited for participation at the survey
	VOSTmh Virtual Operations Support Team from 'Mülheim' - municipality	1	1		Informed and invited to participate in research activities
	VOSTsh Virtual Operations Support Team from 'Schleswig-Holstein' - state	1	1		Informed and invited to participate in research activities
	VOSTffwbhg Virtual Operations Support Team from 'Bad Homburg' - municipality	1	1		Informed and invited to participate in research activities
<b>Victims of Crime</b>	WEISSER RING	1	1		Informed and invited to participate in research activities

Type of contact(s): I=Informed; P=Participated; E=Exploiting

The names, acronyms and short description taken from the network's websites together with their available Facebook and Twitter accounts are embedded in the LCC and can be accessed via the links

- [https://links.communitycenter.eu/index.php/German\\_networks\\_of\\_businesses](https://links.communitycenter.eu/index.php/German_networks_of_businesses)
- [https://links.communitycenter.eu/index.php/German\\_networks\\_of\\_citizens](https://links.communitycenter.eu/index.php/German_networks_of_citizens)

### 7.2.3 Italy

**Table 23: Italian practitioner and developer networks, institutions and communities contact details**

FOCUS	NETWORK	I	P	E	COMMENT
<b>Practitioner</b>					
<b>Fire and rescue services</b>	CNVPF Corpo Nazionale dei Vigili del Fuoco	2	2	2	Represented in the LINKS Advisory Committee Informed and participated in research
<b>Medical Emergency Response &amp; Ambulance services</b>	ANPAS Federazione Nazionale delle Pubbliche Assistenze	2	2	3	Informed and participated in research activities
<b>Mountain rescue</b>	Soccorso Alpino Umbria	2	2	2	Informed and participated in research activities
<b>Developer</b>					
<b>Crisis management</b>	CI3R Consorzio Italiano per la Ricerca sulla Riduzione dei Rischi	1	1	1	Represented in the LINKS Advisory Committee

Type of contact(s): I=Informed; P=Participated; E=Exploiting

The names, acronyms and short description taken from the network's websites together with their available Facebook and Twitter accounts are embedded in the LCC and can be accessed via the links

- [https://links.communitycenter.eu/index.php/List\\_of\\_Italian\\_Practitioner\\_Networks](https://links.communitycenter.eu/index.php/List_of_Italian_Practitioner_Networks)
- [https://links.communitycenter.eu/index.php/Italian\\_networks\\_of\\_researchers](https://links.communitycenter.eu/index.php/Italian_networks_of_researchers)

**Table 24: Italian policy and decision maker, Civil society and disseminators networks, institutions and communities contact details**

FOCUS	NETWORK	I	P	E	COMMENT
<b>Policy and Decision Makers</b>					
<b>Disaster management regional level</b>	Protezione Civile Regione Abruzzo			1	Informed and participated in research activities
	Regione Marche			1	Informed and participated in research activities
	Regione Umbria	2	2	1	Informed and participated in research activities
	Regione Lazio	1	1		Informed and participated in research activities
<b>Public Administration</b>	ANCI Associazione Nazionale Comuni Italiani	1	1		Informed and participated in research activities
	Comune di Arrone	1	1		Informed and participated in research activities
	Comune di Montefranco	1	1		Informed and participated in research activities
<b>Civil Society</b>					
<b>Digital Volunteers</b>	Emergenza 24 Social Network for Emergency Management	1	1	1	Informed and participated in research activities
<b>Miscellaneous</b>	ActionAid Italia	1	1	1	Informed and participated in research activities
	CSLI	0	0	1	
<b>Disseminators</b>					
<b>Magazines &amp; Newspapers</b>	Rivista Ufficiale dei Vigili del Fuoco	1			Informed
	La Protezione Civile Italiana	1			Informed
	Il Giornale della Protezione Civile	1			Informed
<b>Radio &amp; TV</b>	Rai	1		1	Informed

Type of contact(s): I=Informed; P=Participated; E=Exploiting

The names, acronyms and short description taken from the network's websites together with their available Facebook and Twitter accounts are embedded in the LCC and can be accessed via the links:

- [https://links.communitycenter.eu/index.php/Italian\\_networks\\_of\\_policy\\_and\\_decision\\_makers](https://links.communitycenter.eu/index.php/Italian_networks_of_policy_and_decision_makers)
- [https://links.communitycenter.eu/index.php/Italian\\_networks\\_of\\_businesses](https://links.communitycenter.eu/index.php/Italian_networks_of_businesses)
- [https://links.communitycenter.eu/index.php/Italian\\_networks\\_of\\_citizens](https://links.communitycenter.eu/index.php/Italian_networks_of_citizens)

## 7.2.4 Netherlands

**Table 25: Dutch practitioner and developer networks, institutions and communities contact details**

FOCUS	NETWORK	I	P	E	COMMENT
<b>Practitioner</b>					
<b>Fire service</b>	Brandweer Nederland	2	1		Informed and invited to participate in research activities
<b>Medical Emergency Response &amp; Ambulance services</b>	GGD GHOR NL	2	2		Informed and invited to participate in research activities
	Rode Kruis NL	3	1	1	Rode Kruis gave a presentation to the Dutch case team and the Danish case team at the VU. It was about the app Ready2Help to coordinate volunteers
	GGD Zuid-Limburg Gemeenschappelijke gezondheidsdienst	2	2		Informed and invited to participate in research activities
<b>Police</b>	Politie NL	1			Informed and invited to participate in research activities
	ACP	1			Informed and invited to participate in research activities
	Politie NL, Eenheid Limburg	2	1		Informed and invited to participate in research activities
<b>Developer</b>					
<b>Crisis management</b>	NIPV Nederland instituut Publieke Veiligheid	2	1		Informed and participated in research activities
<b>Natural hazards</b>	UT - ITC University of Twente's Faculty of GeoInformation Science and Earth Observation	1			Informed and invited to participate in research activities

Type of contact(s): I=Informed; P=Participated; E=Exploiting

The names, acronyms and short description taken from the network's websites together with their available Facebook and Twitter accounts are embedded in the LCC and can be accessed via the links:

- [https://links.communitycenter.eu/index.php/List\\_of\\_Dutch\\_Practitioner\\_Networks](https://links.communitycenter.eu/index.php/List_of_Dutch_Practitioner_Networks)
- [https://links.communitycenter.eu/index.php/Dutch\\_networks\\_of\\_researchers](https://links.communitycenter.eu/index.php/Dutch_networks_of_researchers)



**Table 26: Dutch policy and decision makers and businesses networks, institutions and communities contact details**

FOCUS	NETWORK	I	P	E	COMMENT
<b>Policy and Decision Makers</b>					
<b>Public Administration</b>	RIVM Rijksinstituut voor Volksgezondheid en Milieu	1			Informed and invited to participate in research activities
	Rijkswaterstaat	2	2		Informed and participated in research activities
	Waterschap Limburg	2	2		Informed and participated in research activities
	Sittard-Geleen	2	2	1	Informed and participated in research activities
	Beek	2	2	1	Informed and participated in research activities
	Stein	2	2	1	Informed and participated in research activities
<b>Cross-border cooperation</b>	EMRIC+ Euregio Maas-Rhine Incident Response and Crisis Management	1		1	Informed and invited to participate in research activities Presentation given by FEU
<b>Businesses</b>					
<b>Miscellaneous</b>	COT Instituut voor Veiligheids- en Crisismanagement	1	1		Informed and invited to participate in research activities
	VNCI Koninklijke Vereniging van de Nederlandse Chemische Industrie	1	1		Informed and invited to participate in research activities
	Crisislab	1	1	1	Informed and invited to participate in research activities
	Chemelot	1	1	1	Informed and invited to participate in research activities

Type of contact(s): I=Informed; P=Participated; E=Exploiting

The names, acronyms and short description taken from the network's websites together with their available Facebook and Twitter accounts are embedded in the LCC and can be accessed via the links:

- [https://links.communitycenter.eu/index.php/Dutch\\_networks\\_of\\_policy\\_and\\_decision\\_makers](https://links.communitycenter.eu/index.php/Dutch_networks_of_policy_and_decision_makers)
- [https://links.communitycenter.eu/index.php/Dutch\\_networks\\_of\\_businesses](https://links.communitycenter.eu/index.php/Dutch_networks_of_businesses)