Ref. Ares(2023)8879577 - 27/12/2023

PROTEZIONE CIVILE
Presidenza del Consiglio dei Ministri
Dipartimento della Protezione Civile

ROADMAP2

euROpean observAtory on Disaster risk and crisis MAnagement best Practices: way ahead

Deliverable D4.1
Solutions Explorer improved

Co-funded by the European Union

Grant Agreement number: 101101690 – ROADMAP2 – UCPM-2022-KN
Project co-funded by the European Union Civil Protection

ROADMAP2

1. INTRODUCTION

The Solutions Explorer, developed in its first version during the ROADMAP project, has been improved in order to provide a user experience in line with the needs of the communities engaged in ROADMAP2 and with the theoretical requirements described in D3.1. Procedural and technical requirements take into account the Framework for Good Practices (GPs) identification and assessment defined in WP3.

2. OBJECTIVES

This document reports on the improvements to the Solutions Explorer, an open source Web platform that has been developed in its first version as part of the previous ROADMAP project.

3. OVERVIEW

The improved version of the Solutions Explorer has benefited from the conceptual contribution of the ROADMAP2 partners and members of the ROADMAP2 Community for the European Observatory (CEO), and it has been designed to be compliant with the Framework defined in D3.1. It hosts GPs in Disaster Risk Management available at different governance levels (local, regional, national and international) supporting the activities of ROADMAP2 project.

The Solutions Explorer is available at the following web address:
https://solutionsexplorer-roadmap.ci3r.it/

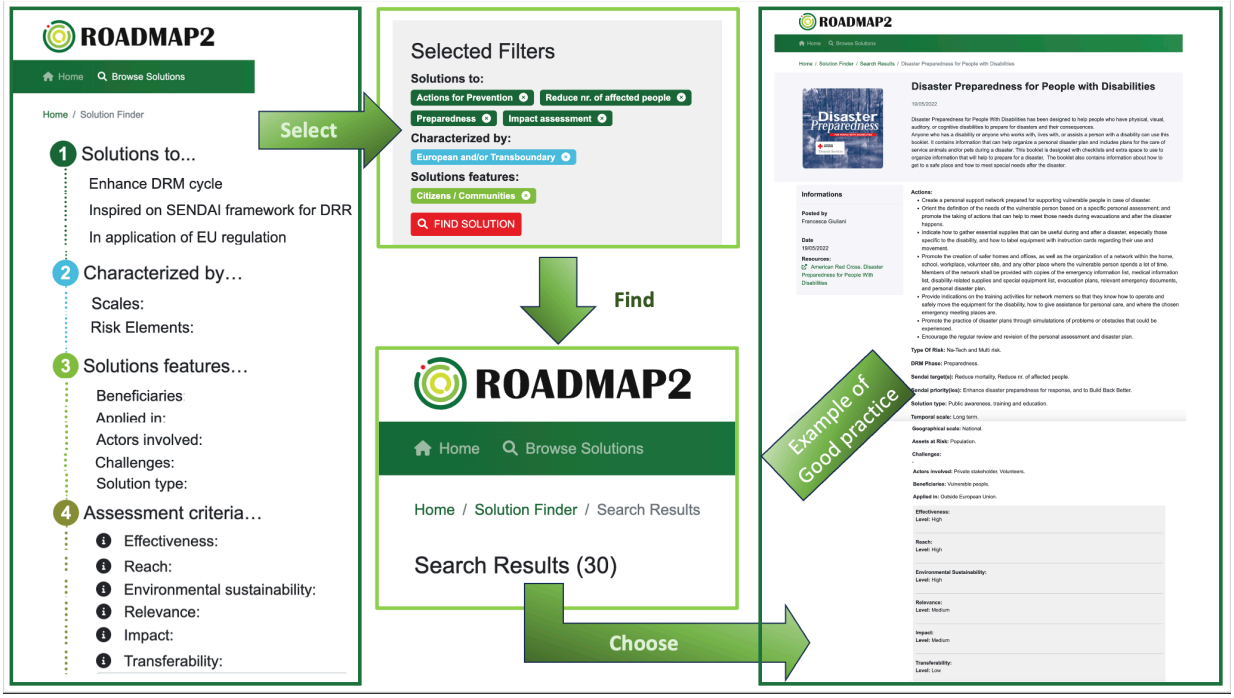

Figure 1. The structure and the functional flow of the improved version of the Solutions Explorer.

More in detail, this updated version reflects and incorporates the methodological structure defined in **D3.1 - Framework for identifying and assessing GPs in DRM**.
As the first version developed in ROADMAP, its database can be interoperated with resources already available within the UCP Knowledge Network as well as with the DRMKC resources (e.g., Gaps Explorer),

with easy access to basic data and experiences in the field of DRM starting from available National Risk Assessment.

The Solutions Explorer main structure for organizing the searching and browsing process is now based on 4 different main areas where the user can set up the searching criteria. The updated version includes a new menu related to the assessment of GPs (as defined in D3.1) to aid the user in selecting them with specific features that can help understand the level of replicability and transferability of a specific GP.

In Figure 1 the structure of the improved version of the Solutions Explorer, available for ROADMAP2 activities, is reported.

In addition, to the 3 areas already available in the first version of the Solutions Explorer, namely "1. Solutions to", "2. Characterized by…" and "3. Solutions features…", a fourth area named "4. Assessment criteria" has been introduced.

The first area ("Solutions to") has been improved following the requirements collected and it is aimed at defining the features of the GPs available in its database in terms of scope and objectives of the required GP. To achieve this result, we have used 3 sub-categories called:

- "Enhancing the DRM cycle"
- "Targeting the Sendai Framework for DRR"
- "In support of EU legal framework".

With respect to the first version, this area has been modified in order to start from a more general criterion related to the DRM cycle phase and move to more specific criteria related both to the Sendai Framework and the EU regulations that are relevant for DRM (e.g., compliance with the Union Disaster Resilience Goals – URDGs).

The second area ("Characterized by…") is aimed at defining the features of the required GP. In this area the scales (spatial and temporal) and the exposed elements (type and assets) required can be selected.

The third area ("Solution features") allows for defining specific features of the solution (GP) in terms of beneficiaries, actors, challenges, and solution type.

The second and third areas have not been changed from the first version of the Solutions Explorer.

These first 3 areas address the Building Blocks 1.1 "Settings" and 1.2 "Identification Criteria" defined in D3.1.

GP source	*Provide link or reference and find a short name to identify the GP*
Short description	*Provide information about the GP: geographical scale, temporal scale governance level, which results/outcomes it achieves, institutional and financial support, beneficiaries, type - e.g., ITC tool, legislation -, time frame of the GP etc.*
DRM cycle	*Indicate which phase(s) of the DRM cycle the GP meets*
Compliance with Sendai priority/target	*Indicate which priorities and targets the GP meets*
Compliance with EU legal framework and UDRGs	*Indicate references to documents of the EU legal framework and/or which UDRGs goal and area(s) of relevance the GP addresses*
Multi-risk	*Indicate which risk(s) the GP addresses*
Stakeholders	*Describe which types of stakeholders are involved in the GP*
Evidence	*Provide information about research and/or practice in which the GP is applied and works in a real context in achieving outcomes and results*
Extra notes	*Describe possible critical aspects and/or challenges of the GP*

Figure 2. This figure from D 3.1 reports the definition of Building Blocks 1.1 "Setting" and 1.2 "Identification Criteria" used for defining the areas "1. Solutions to", "2. Characterized by…" and "3. Solutions features…" of the improved version of the Solution Explorer.

The fourth area ("Assessment criteria") has been introduced in this improved version to address the Building Block 2.1 "Assessment criteria" defined in D3.1 (see Figure 3).

GP source	*Report as above*		
Short description	*Report as above*		
Assessment criteria	**Question**	**Answer**	**Self-Assessment**
Effectiveness	To what extent does the GP achieve the desired result/outcome?		Low Medium High
Reach	To what extent does the GP affect the intended and critical target population?		Low Medium High
Environmental sustainability	To what extent does the GP address environmental issues and climate change challenges?		Low Medium High
Relevance	To what extent does the GP respond to a persistent/dramatically felt problem and to population's needs and priorities? Is the GP doing the right thing?		Low Medium High
Impact	To what extent has the GP broader or longer-term positive effects of social, environmental, and economic character? What difference does the GP make?		Low Medium High
Transferability	To what extent can the GP be adapted and transferred to other socio-economic contexts?		Low Medium High

Figure 3. This figure from D 3.1 reports the definition of Building Blocks 2.1 "Assessment Criteris" used for defining the areas "4. Assessment Criteria" of the improved version of the Solution Explorer.

This area allows for selecting GPs categorized with a specific level of:

1. Effectiveness
2. Reach
3. Environmental sustainability
4. Relevance
5. Impact
6. Transferability

For each criterion the user is allowed to select a qualitative level among “Low”, “Medium” and “High”. Each specific indicator is explained by a “info” pop-up label available for each criterion. The description of the criteria available and the question they address is reported in Figure 3.

The single GP form has been improved to be compliant with the defined criteria. When a GP is selected following the workflow presented in Figure 1, the related form shows all the criteria related to the GP selected and for each Assessment Criteria it reports both the value (“Low”, “Medium” or “High”) and a specific field with the evidence for this specific indicator.

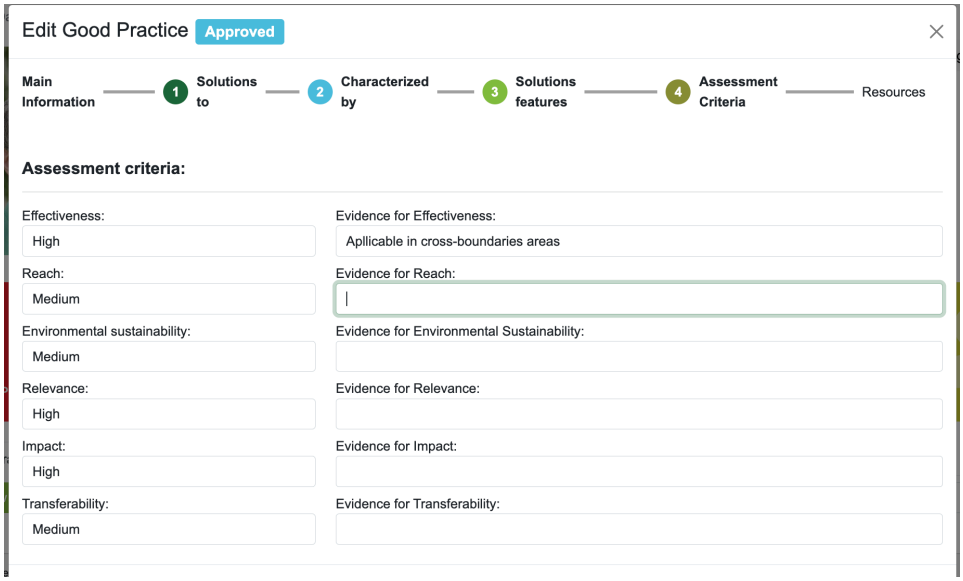

Figure 4. For each Assessment Criteria a specific field that reports the evidence related to its value is defined. This can be compiled in the Good Practice form within the Solutions Explorer database, and will be available in the description of the Good Practice when selected by the user.

4. CONCLUSIONS

The improved version of the Solutions Explorer reflects the theoretical framework defined in ROADMAP2 and represents a tool for supporting the activities of the project, hosting GPs that can support the flash reports, the stakeholder’s engagement activity, the collaborative workshops as well as the example scenarios that will be developed within the project.