ENCIRCLE

EuropeaN Cbrn Innovation for the maRket CLustEr

D3.8 ENCIRCLE Cluster Dynamic Catalogue

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5	Tecnoalimenti (TCA)	
6	Wojskowa Akademia Techniczna (WAT)	X
7	European Virtual Institute for Integrated Risk Management (EU-VRi)	
8	Istituto Affari Internazionali (IAI)	
9	University Côte d'Azur (UCA)	
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- European Commission
- ENCIRCLE Consortium

Executive Summary

This document is the summary of the status for the ENCIRCLE cluster first dynamic catalogue after 45 months of operational use (since June 2017). The deliverable consists of the on-line catalogue operational "tool" and contents.

Contents

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1   ENCIRCLE CATALOGUE 2020 VERSION ACCESS

The ENCIRCLE Dynamic Catalogue is a web portal with databases, networks, marketplace and different functions, that will support the project activity in an open, flexible and interactive manner.

The catalogue is accessible on-line at the following address: www.encircle.eu. The home page is public.

To use the catalogue, under specific access conditions defined by the membership nature, it is necessary to register as a member of one of the ENCIRCLE communities.

The catalogue provides registration and support to the two ENCIRCLE communities: the Practitioners and Customers Community and the Technological and Industrial and Community which are the main users of the dynamic catalogue.

To be a "user" of the catalogue, an organisation or an expert must select the community it wishes to join and follow the registration procedure proposed for each community.
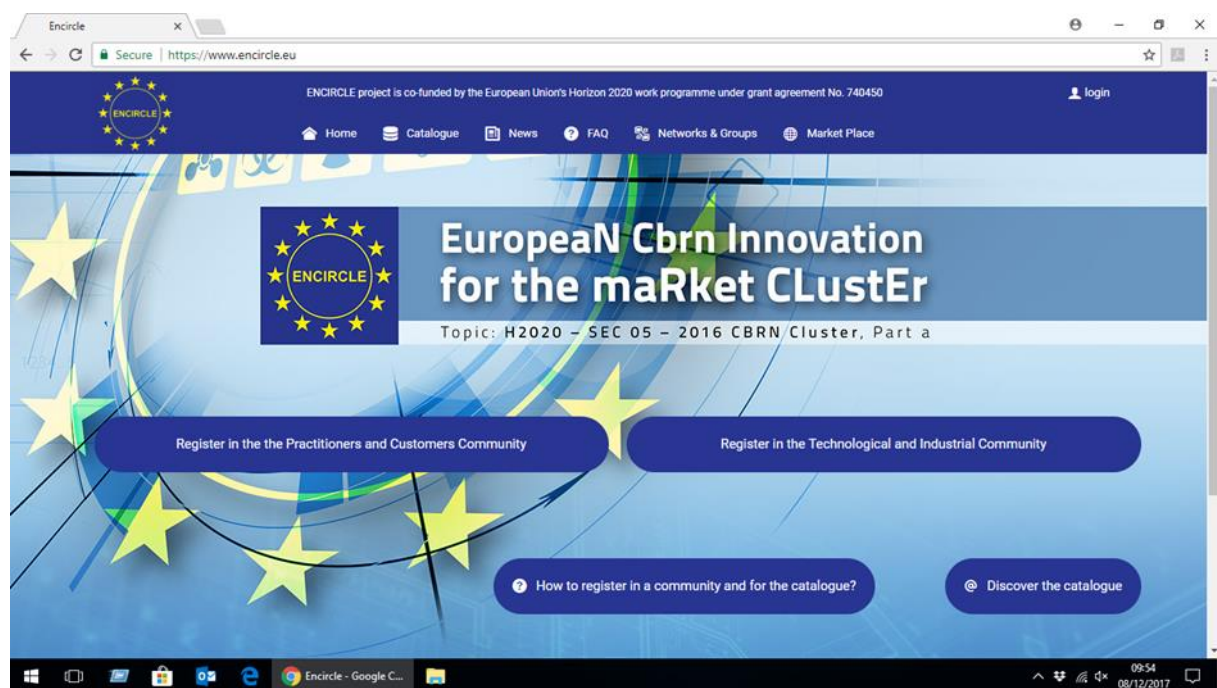
Figure 1 – Web Portal Interface for ENCIRCLE Dynamic Catalogue

The registration requires the signature of a Letter of Intent to agree between the consortium and the catalogue user. Since the 1st of July 2018 the LOI process has changed as summarized above:

At the end of the registration process, the user is asker to numerically sign the LOI by ticking a box before submission of their registration process. The numerically signed LOI are tracked in the Encircle platform database.

2   ENCIRCLE CATALOGUE MAIN CONTENT AT 45 MONTHS

The catalogue contains non-classified information sorted out either by:

- Functions and sub-functions
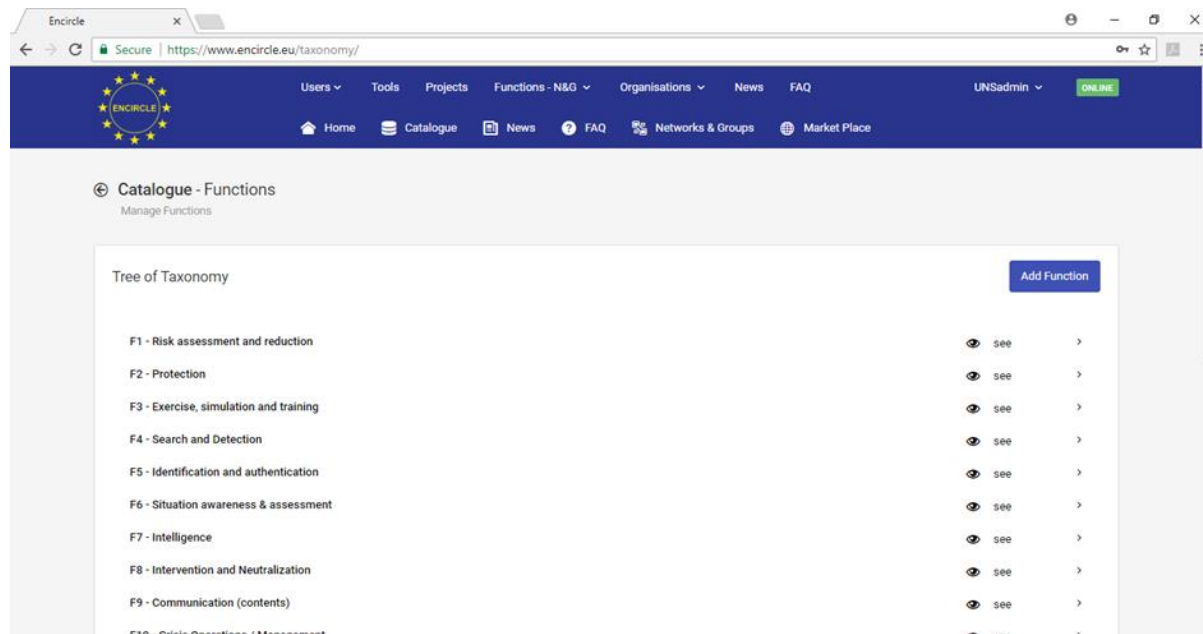
Figure 2 – Screenshot of ENCIRCLE Dynamic Catalogue (Functions)

- by organisation:
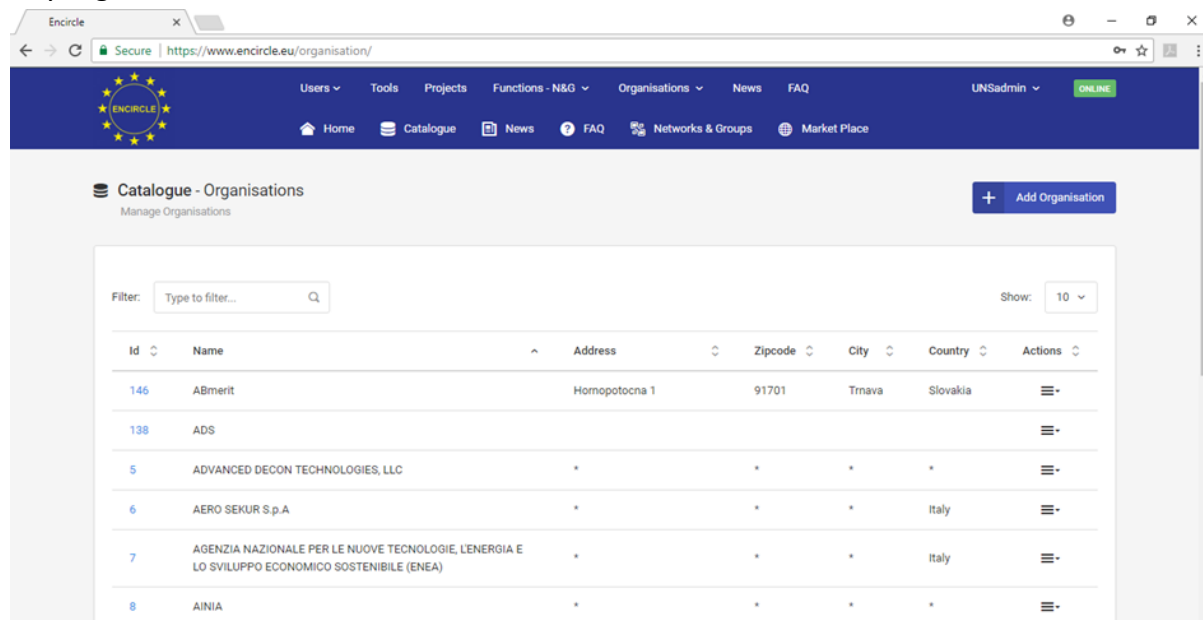
Figure 3 – Screenshot of ENCIRCLE Dynamic Catalogue (Organizations)

- or by needs:
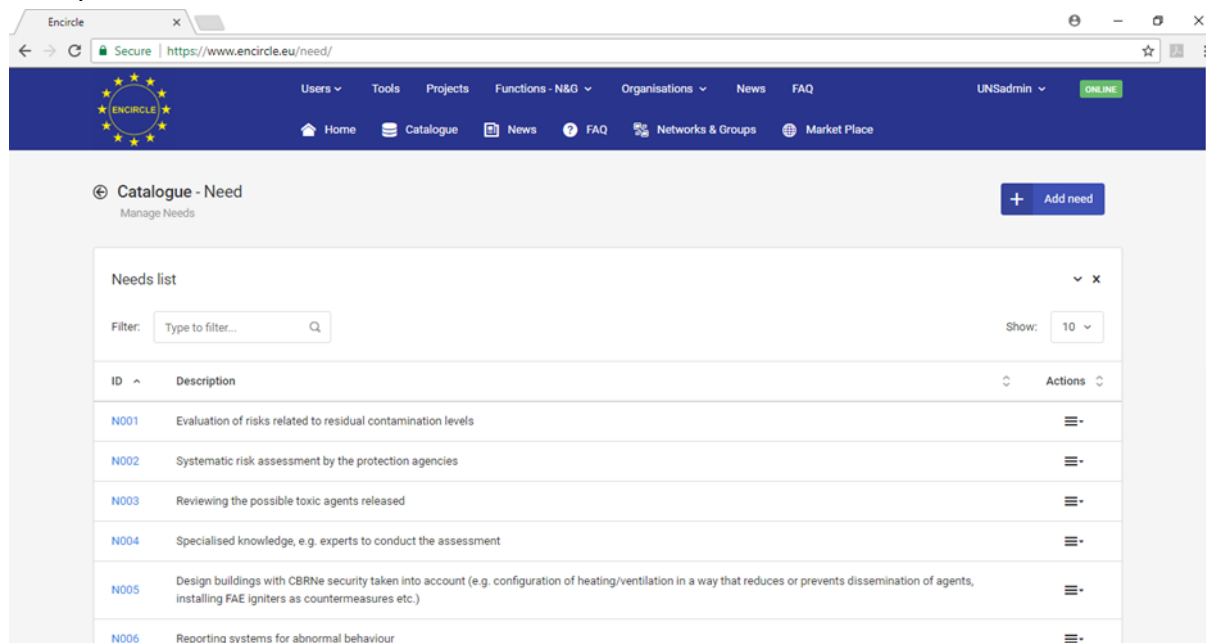
Figure 4 – Screenshot of ENCIRCLE Dynamic Catalogue (Need)

It includes:

- Relevant needs and gaps (unclassified and not confidential information), for instance:
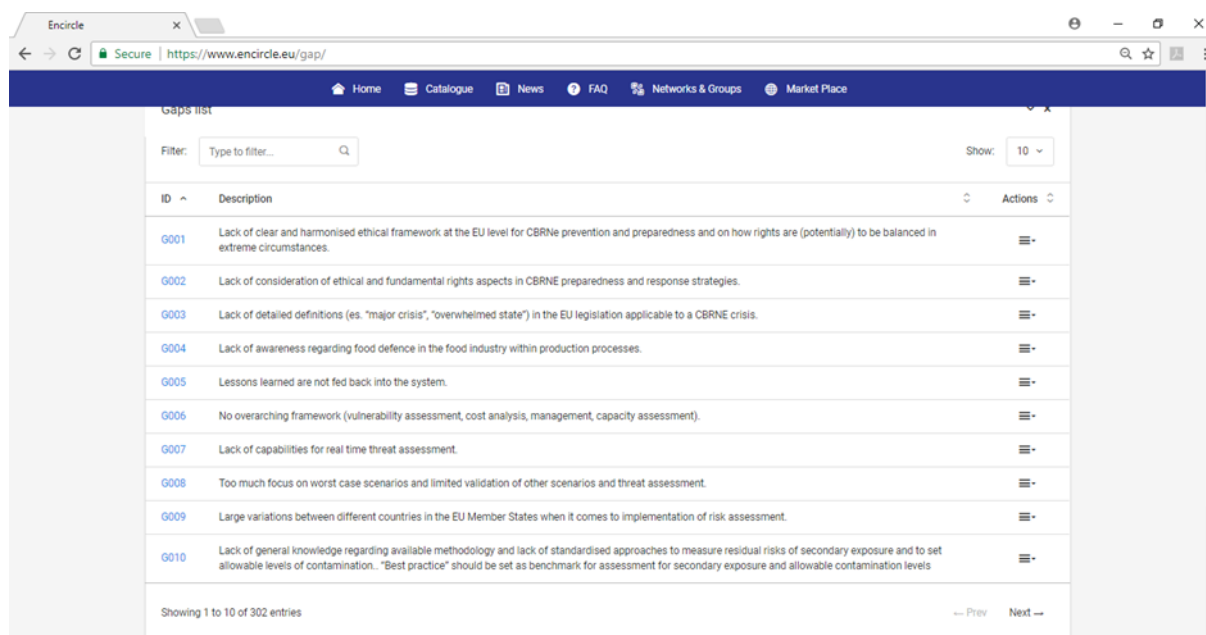
Figure 5 – Screenshot of ENCIRCLE Dynamic Catalogue (Needs and Gaps)

- CBRN technologies and tools description, including generic, dual and related non-specific CBRN products and technologies, such as, for instance:

Figure 6 – Screenshot of ENCIRCLE Dynamic Catalogue (Tools)

It also includes:
- standards and interfaces,
- social and environmental issues and descriptions

All the data included in the catalogue concerning organisations, point of contact, tools, including technical tools, procedures etc., are under the responsibility of their owner (consortium partner when relevant and community members).

In particular, all the suppliers and SMEs registered in the EDEN Store (supplier platform and SME platform) that already accepted to communicate their information to be used in ENCIRCLE will join the new community with a new login and password. Their EDEN Store registered data have already been transferred in the catalogue, ready for the suppliers to update them with recent information.

The main public deliverable of the dynamic catalogue is the portal itself, operational since mid-June 2017.

It currently includes the information provided by the EDEN partners, the suppliers and the SMEs that allowed the ENCIRCLE consortium to use their data, plus some additional needs and gaps identified and gathered in Dec 2020:
- 347 Needs,
- 302 Gaps (CBRNe specific and related).

In the catalogue there are currently registered:
- 291 unique organisations,

- 277 tool descriptions,
- 39 projects including 3 cooperating projects.

The ENCIRCLE Network and Groups forum activities statistics are summarized below.
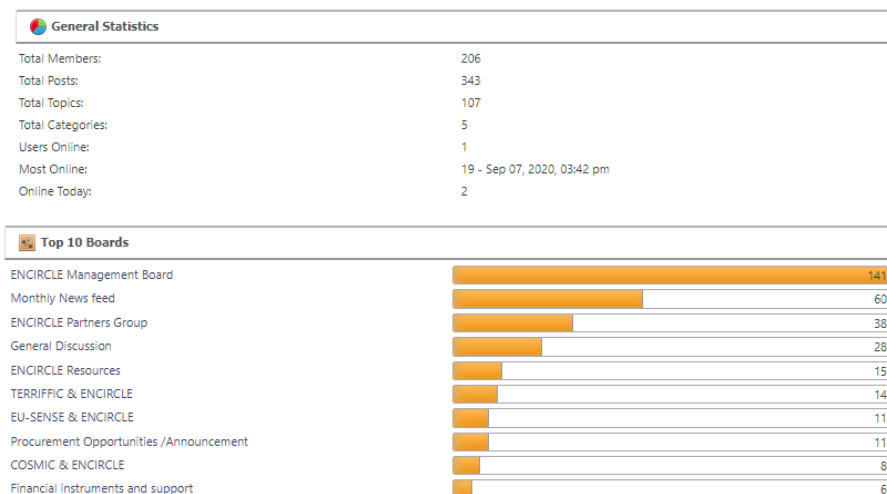
Figure 7 – Statistics of ENCIRCLE Network and Group Forum
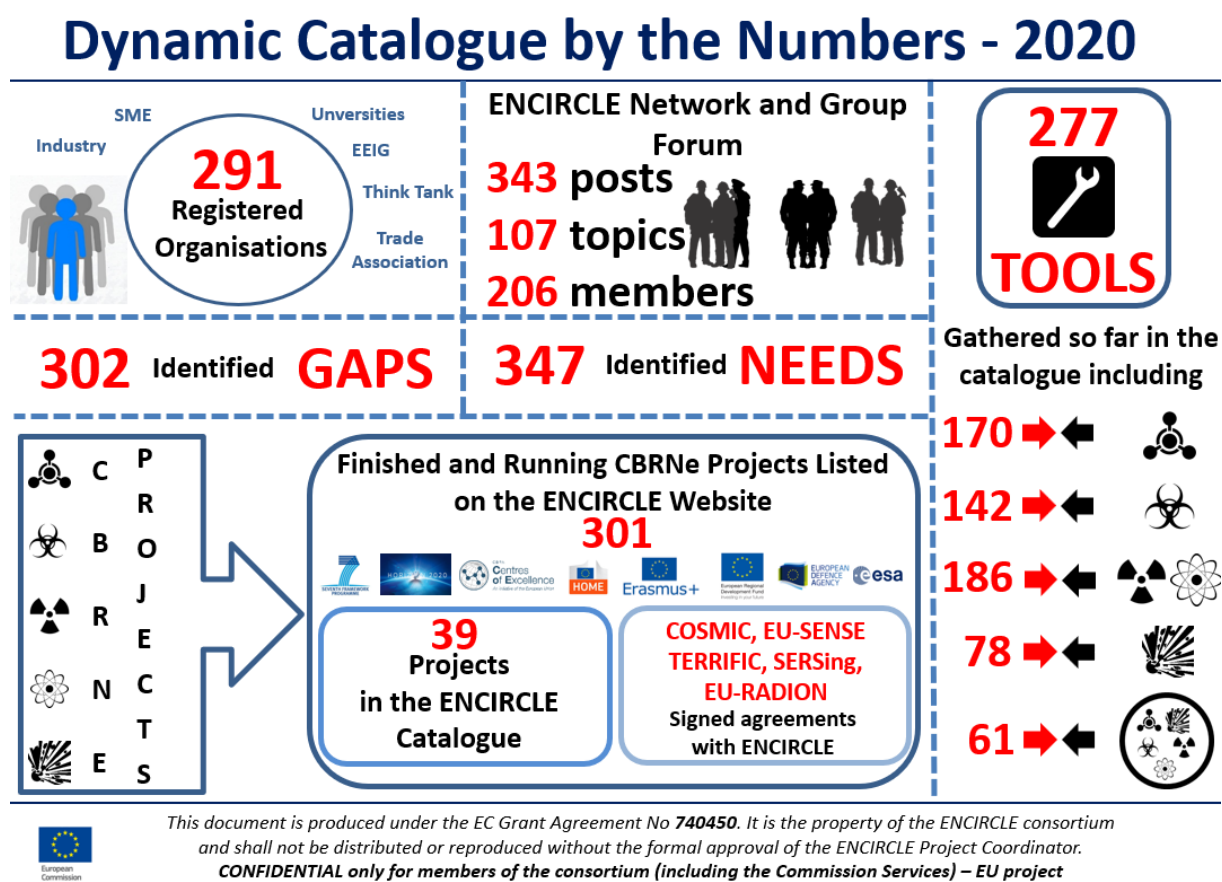
Figure 8 – Statistics of ENCIRCLE Dynamic Catalogue

3   ENCIRCLE CATALOGUE MAIN EDITIONS AND UPDATES

In 2018 the summary of the changes in the catalogue were following (see D3.3 and D3.4)

1- Change in the LOI process (see section 1)
2- ENCIRCLE Network and Groups functionality (available since March 2018)
3- Enabling of possibility to add several standards for the tools and projects (available since June 2018)
4- ENCIRCLE Catalogue GDPR compliance checking completed internally by the consortium
5- Integration capabilities function refinement of tools by categories (since October 2018)

Figure 9 – Web Interface of ENCIRCLE Dynamic Catalogue (Innovation Watch Form)

Since 2019, the main modifications on the catalogue consisted in the opening of a space for Innovation watch. As shown below, a new entry has been implemented in the catalogue since May 2019 to post innovation reports.

The innovation reports are directly produced by the consortium member using the Risk Radar innovation watch tool provided by EU-VIR partner and accessible through the forum to the entire consortium.

The consortium can then perform a research with the tool and post the produced report on the catalogue to make it accessible/visible for the two communities.

The second elaboration in 2019 in the ENCIRCLE catalogue was the elaboration of a restricted access profile for consulting companies in the CBRNe field which do not, by definition, belong to any of the two communities. Consequently the consulting companies in the CBRN field only have access to the Network and Group part of the ENCIRCLE Dynamic Catalogue, and are identified as such there.

In 2019 November, the Market Place is launched on the ENCIRCLE Dynamic Catalogue. The Market Place helps to facilitate members of the practitioners and tool provider communities' direct interaction and allow them to obtain relevant information based on their search requests.

The Market Place provides the information of the tools as well as the information of the projects and point of contacts that are associated with the queried tools. It also provides the user the option to save the search results information into PDFs document for printing.

In the Market Place, the user can search for tools related to any keyword. The search results will give the list of tools which contains the search keyword in its description and title. And together with the list of tools, the Market Place will also display the list of projects which contains the search keyword in its title and description, and a list of contacts that is associated with the tools and projects in the search results.

In addition, the user can refine the search results by removing any lines of the results through the clicking of the blue button located at the right of each result item.

To save the search, the user can generate them in PDF formats by clicking on the red button located at the top right (above the 'Tool List') and bottom right (below the 'Contact List'). The resultant PDFs of the search results are shown below.

🌐 Market Place

Create pdf

- Tools List

Showing 1 to 10 of 306 entries	Filter: Type to filter... 🔍				Show: 10 ⌄
Tool details ⌄	Name ⌃	Subtitle ⌃	Organizations ⌃	UnSelect ⌃
444	CBRN-Frontline	Incident Management System for Non-Specialists	Bruhn NewTech	🗑
443	Mobile lock system for decontaminating particle bound substances		deconta GmbH	🗑

- Projects List

Showing 1 to 10 of 32 entries	Filter: Type to filter... 🔍			Show: 10 ⌄
Project details ⌄	Acronym ⌃	Signification ⌃	Organization ⌃	UnSelect ⌃
85	SENTINELX	CBRN Sensor Package mounted on a range of UAVs from 35 to 480 minute flight duration, sensor package lowered to target or flown through plume. R&N detection immediate, C within 5 minutes, B within 10 minutes, wireless data transfer for further analysis and display to a C&C ground station or network	Scorpion Networks Ltd.	🗑
84	DAPCANT	Decontamination And Pollution Control Against Nonconventional Threats	HEYL Chem.-pharm. Fabrik GmbH & Co. KG	🗑

- Contacts List

Showing 1 to 10 of 427 entries	Filter: Type to filter... 🔍				Show: 10 ⌄
Id ⌄	Firstname ⌃	Lastname ⌃	Organization ⌃	Email ⌃	Phone ⌃

Figure 10 – Web Interface of ENCIRCLE Dynamic Catalogue (Market Place)

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Tool details	Name	Subtitle	Organizations	UnSelect
350	Training Combat Suit	Combat training suit must only be used for instruction or training purposes.	Ouvry SAS	
76	Criteria for suitable temporary waste storage facilities (guidelines)	Guidance Document to identify criteria for the suitable temporary waste storage facilities	Bruhn NewTech A/S	
61	I-HDS	Heavy Duty CBRN Protective Suit	BLÜCHER GMBH	

Encircle

Project details	Acronym	Signification	Organization	UnSelect
49	NATO RADIAL FILTER - AEP54	CBRN Filter to suit UK surface ship collective protection in accordance with NATO specification AEP54	EMCEL FILTERS LIMITED	

Figure 11 – PDFs Search Results of ENCIRCLE Dynamic Catalogue (Market Place)

In 2020, following the feedbacks from the consortium members, the Market Place has been revised with the following changes:

1. Tools List:

    a. The search scope and results now include the TRL, type of CBRNe threats, keyword that are associated to the tools

    b. The results of the tools list will only include Technology Readiness Level (TRL) of 7 and above.

2. Projects List:

    a. The search scope and results now include the type of CBRNe threats that are associated to the tools

In the Innovation Watch, the catalogue users can obtain relevant reports on CBRN that are collected, vetted and posted by the ENCIRCLE consortium. In July 2020, 2 widget tools, developed by EU-VRi, were incorporate on Innovation Watch section of the catalogue.

They are the "Innovation Watch" widget, which presents potential interesting novel innovations, and the "Radar" widget that provides a pre-analysis of on-goings in the field of CBRN. In these widgets, the user can obtain the web links to the relevant articles and reports (include twitter tweets, journal reports and news articles).
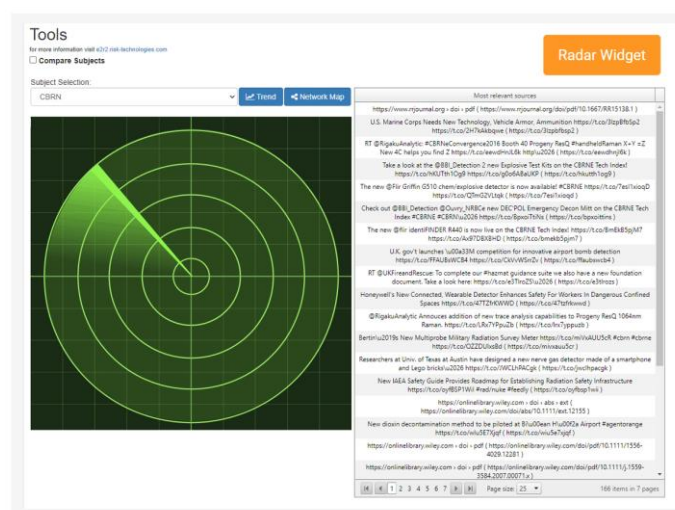

Figure 12 – Radar Widget Tool for the Innovation Watch, developed by EU-VRi

4   COOPERATION WITH STAIRS4SECURITY & NO-FEAR

ENCIRCLE has activated a cooperation with STAIR4SECURITY (http://cen-stair4security.eu) and NO-FEAR (http://no-fearproject.eu).

The STAIR4SECURITY project is funded by the H2020-EU.9.7.7 Programme that aims to create a collaborative platform as single entry point for information on the security sector stemming primarily from research activities in order to allow better governance of standardization needs in the Disaster Resilience and Chemical Biological Radiological Nuclear and Explosive (CBRNe) sectors to be realized.

The NO-FEAR project is a H2020 programme that aims to bring together a pan-European network of practitioners, decision and policy makers in the medical and security fields. This is to foster collaborations in order to achieve a common understanding of needs, as well as - in collaboration with academia and industries – and to increase the EU innovation potential that could better fill the operational gaps and recommend areas for future innovations.

For this cooperation, ENCIRCLE together with NO-FEAR have share essential metadata from their respective catalogues with Stairs4Security. The shared metadata includes information from tools, projects, needs and gaps that were collected, collated and uploaded by both ENCIRCLE and NO-FEAR community.

	Catalogue Data to be shared					
	Tool Information		Project Information		Needs and Gaps	
	NO-FEAR	ENCIRCLE	NO-FEAR	ENCIRCLE	NO-FEAR	ENCIRCLE
Stair4 Security	Tool Name	Tool Name	Project Name	Project Name	Need Name	Need Name
		Organisation		Organisation	Gap Name	Gap Name
	Description	Description	Description	Description	Lesson Learnt	
		Type of CBRNe Threat		Type of CBRNe Threat		
	Lifecycle	Security Lifecycle		Security Lifecycle		
	TRL	TRL	Acronym			
	NO-FEAR Pillars		NO-FEAR Pillars			

Figure 13 – List of metadata from ENCIRCLE and NO-FEAR catalogue that is shared with Stairs4Security

Once the shared ENCIRCLE metadata is made available from the Stair4Security platform, discussions and reviews will continue with Stair4Security to agree on the frequency for update of this information.

As a cooperation and support action project, ENCIRCLE fully supports the cooperation and collaboration between other Horizon 2020 projects for a better governance of innovation and dissemination of best practices.

5   ENCIRCLE SCHEDULED EDITIONS AND UPDATES

The ENCRICLE project will officially finished on September 2021. However, the ENCIRCLE Dynamic Catalogue will still be fully operational for the next three years into 2024. And it will be maintained by University Côte d'Azur (UCA).

All the proposed functions of the catalogue have been implemented. Updates to the existing functionalities will be further explored through feedbacks from the users and the consortium partners.