

About ENCIRCLE



Coordination and Support Action

Grant Agreement N°: 740450

Start date: 10/03/2017 – **End date:** 09/03/2021

Project website: encircle-cbrn.eu



ENCIRCLE consortium partners:

- UCL, Centre for Applied Molecular Technologies
 & BE-Defence, BE (Coordinator)
- BAES, BAE SYSTEMS, UK (Technical Coordinator)
- OUVRY, Ouvry SAS, FR
- PIAP, Przemysłowy Instytut Automatyki i Pomiarów, PL
- TCA, Tecnoalimenti, IT
- WAT, Wojskowa Akademia Techniczna, PL
- EU-VRI European Virtual Institute for Integrated Risk Management, DE
- IAI, Istituto Affari Internazionali, IT
- UNS, Université de Nice-Sophia Antipolis, FR
- UCSC, Universita Cattolica del Sacro Cuore, IT
- FALCON Communications Ltd, UK
- SMITHS Detection Watford Limited, UK
- MIKSEI, MIKKELI Development MIKSEI, FI
- EOY, ENVIRONICS OY, FI
- ADS GROUP LIMITED LBG/CBRN-UK



ENCIRCLE - Scope



EDEN
OTHER CBRN and
CBRN related PROJECTS

PRACTITIONERS
POLICY PROCUREMENT

SUPPLY CHAIN

CBRN INNOVATION MARKET

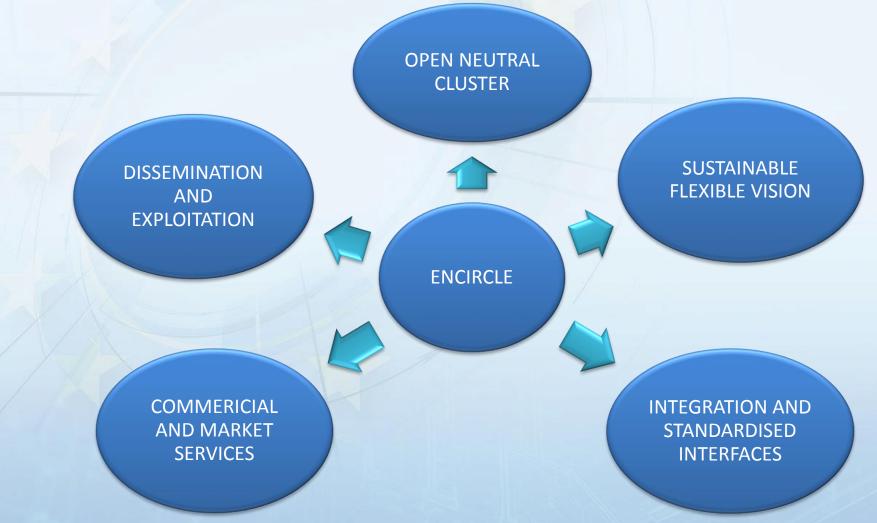
ASSESSMENT of GAPS AND TECHNOLOGY NEEDS

- Specialised, efficient, competitive, sustainable supply chain (Industry/SME supported by research organisations)
- Less fragmented market
- BETTER RESILIENCE AND RESPONSE TO NEW CBRN THREATS



ENCIRCLE Top Objectives

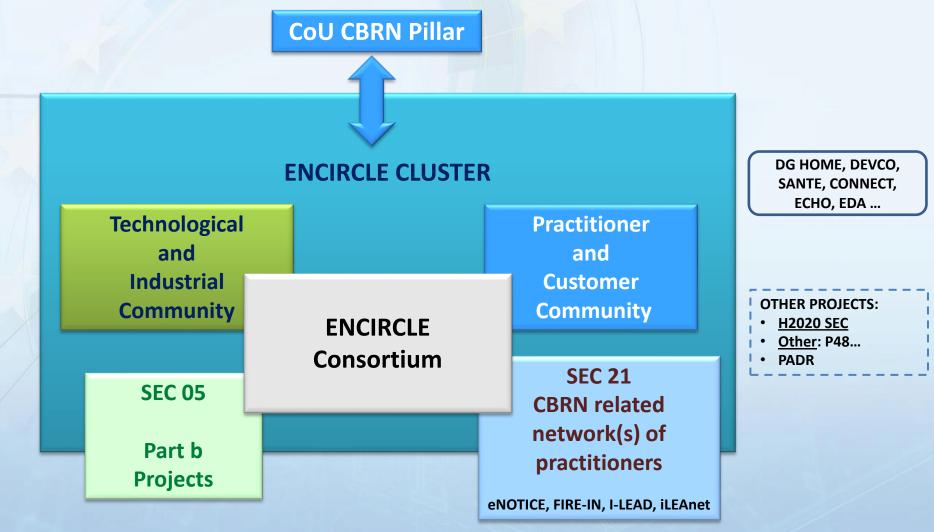






The ENCIRCLE Cluster







ENCIRCLE Communities



Practitioners and Customers

State of the art assessment
Policy and Procurement
Market Development and Services
Feedback on the catalogue
Awareness on products' availability

Industrial and Technological

Promote products and services
Networking and integration
Access to potential customers
Link with practitioners and ENCIRCLE
partners



ENCIRCLE - Dynamic catalog



The ENCIRCLE Dynamic Catalogue is a web portal accessible at :

https://www.encircle.eu/



(databases, networks, market place)



ENCIRCLE - Market and Business

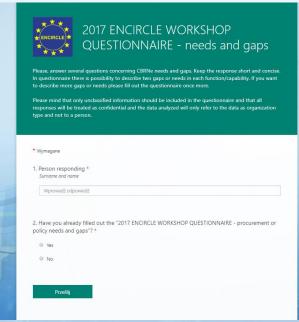


- Rolling survey via ENCIRCLE website http://encircle-cbrn.eu/
 - CBRN End User organisations
 - Industrial and academic organisations involved in the development and/or production of CBRN capabilities, goods and services,

Procurement organisations involved in the acquisition of CBRN

capabilities, goods and/or services.

- Currently, 3 questionnaires are available
 - CBRNe needs and gaps
 - Policy needs and gaps
 - Procurement





ENCIRCLE and SEC 05 part b) RIAs



 ENCIRCLE provide a list of technologies that needs to be developed, updated yearly → open for the future SEC 05 part b calls on the Research Executive Agency (REA) website

Function	Description	Phase in security cycle				Field					ENCIRCLE TECHNOLOGY NEEDS	Tool Requirements
		Prev	Prep	Resp	Rec	С	В	RN	Med	Priority	Desc	
Risk Reduction	Too little research/ identification of improvised CBRNE devices and production facilities.	x				×	×	×	х	L		
Protection	Lack of ordinary working suit for daily-use, including embedded detectors.			Х	Х	Х	х	X		Н		
	Lack of standardised or universal and multifunctional (with integrated sensor systems) PPE, that is not heavy and bully. Lack of respiratory protection, with an extended range of protection from toxic agents.			х	х	х	х	x	х	н	Find the optimum balance between commont, systems integration and protection of PPE (standardised, light – for longer use -, usable also at high outside temperatures, and including communication, localisation devices and sensors) a) Respiratory protection system with an improved sound quality for communication; b) Gloves that allow to use the common sensors and buttons; or Protective suits against general toxid private (suits against general toxid threats (with no changing of air filters).	manoeuvrable PPE. Additional features should include: end of filter life, rail mounting, disclosure coatings, novel closings.
Detection	Lack of the ability for fast scanning of large numbers of containers for threatening CBRNe material.	х		х	х	х	x	x		Н	Lack of the ability for fast scanning of large numbers of containers for threatening CBRNe material.	
	Insufficient equipment for estimation of contamination, and insufficient training in the use of the equipment. Lack of instant scanning, single or multipurpose detectors, which are fast, sensitive, robust, reliable, affordable, handheld and which do not disturb business continuity when applied in the prevention or preparedness phase. Needs to detect a large spectrum of detectable agents, and detect degree of hazard and residual, post decon, contamination. Must produce less false positive results.	х		х	х	х	х	×	х	н	insufficient equipment for estimation of contamination. Lock of instant somming single or multipurpose detectors, which are fast, sensitive, robust, reliable, affordable, handheld and which do not disturb business continuity when applied in the prevention or preparedness phase. Needs to detect a large spectrum of detectable agents, and detect degree of hazard and residual, post decon, contamination. Must produce less false positive results.	
	A general lack of accurate and instantaneous detection equipment and technologies for search and detection (also a gap between commercially available instruments and those			x	х	x	х	х		L	positive results. Quick detection of the presence of contaminating agent (without need of immediate identification).	Further development and improvement of RN detection systems. Important issues are: reduction o weight, natural background rejection, improvement o sensitivity, capability of interconnectivity between canarys: interconnectivity between

• ENCIRLCE signed a "draft Collaboration Agreement" with all the **13** SEC 05 Part B Research and Innovation Actions (RIA) proposals submitted in response to the 2017 call (indicative total budget: 13.75 M€).



ENCIRCLE workshops



- ENCIRCLE will organize yearly workshops
- Current workshop is the first ENCIRCLE workshop:
 - Dedicated to the Practitioner and Customer Community
 - Needs and Gaps (4 thematic groups)
 - Protection
 - Detection and Identification
 - Decontamination
 - Situation Awareness
 - CBRNe Policy and Procurement
- Next: 2018 Technological and Industrial Community dedicated workshop



Contact



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Practitioners and Customers Community

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Dynamic Catalogue

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