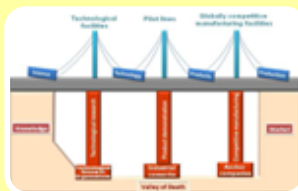


PRESENTACIÓN Y DESCRIPCIÓN DEL TOPIC SEC-05-DRS-2017

Maite Boyero Egido
Delegada española en Sociedades Seguras, H2020,
CDTI
Madrid, 21 de febrero de 2017

80.000 M€ (subvención)

Programa Marco de Investigación e Innovación (2014-2020)



Excellent Science

Industrial Leadership

Societal Challenges

European Research Council (ERC)

Future and Emerging Technologies (FET)

Marie Skłodowska-Curie actions on skills, training and career development

European research infrastructures

ICT

Nanotechnology

Biotechnology

Advanced Materials

Advanced Manufacturing & Processing

Space

Access to Risk Finance

Innovation in SMEs

Health, demographic change and wellbeing

Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy;

Secure, clean and efficient energy;

Smart, green and integrated transport;

Climate action, environment, resource efficiency and raw materials

Europe in a changing world-Inclusive, innovative and reflective societies

Secure Societies: Protecting freedom and security of Europe and its citizens

1.700 M€

2017 Work Programme



EN

Horizon 2020

Work Programme 2016 - 2017

14. Secure societies – Protecting freedom and security of Europe and its citizens

Important notice on the second Horizon 2020 Work Programme

This Work Programme covers 2016 and 2017. The parts of the Work Programme that relate to 2017 (topics, dates, budget) have, with this revised version, been updated. The changes relating to this revised part are explained on the Participant Portal.

(European Commission Decision C(2016)4614 of 25 July 2016)

http://ec.europa.eu/research/participants/data/ref/h2020/wp/2016_2017/main/h2020-wp1617-security_en.pdf

NOT LEGALLY BINDING: pending the 2017 Work Programme official publication by 01/03/2017

Estructura del PT 2017

3 convocatorias paralelas/ separadas:

✓ Critical Infrastructure Protection

- Combinación de amenazas ciber y físicas, enfocándose en distintos sectores críticos -> **1 topic**

✓ Security

- Disaster resilient societies -> **2 topics**
 - Fight against crime and terrorism -> **4 topics**
 - Border and External security -> **5 topics**
 - General Matters -> **1 topic**
- ### ✓ Digital Security Focus Area
- ICT, Secure societies and eHealth -> **2 topics**

CONVOCATORIA 2017 - Abre: 01 Mar 2017, Cierra: 24 Ago 2017

Contexto político DRS

European Commission

Disaster Resilient Society

DG HOME
Internal Security

COM(2009) 273 final
CBRN Action Plan
+ **COM(2014)247 final**
CBRN-E risks
+ **European Agenda on Security**

DG ECHO
Civil Protection

Decision 1313/2013
EU Civil Protection Mechanism

Environmental threats

DG ENV
Environment

Decision 1386/2013
Environment Action Programme
Directive 2012/18/EU
(Seveso III Directive)

Climate threats

DG CLIMA
Climate action

EU Climate Adaptation Strategy

Health threats

DG SANCO
Consumer Health

Decision 1082/2013
Serious cross-border threats to health

DG ENER
Energy

Regulation 347/2013
Tran-European Energy Infrastructure
Directive 2009/7/EU
Safety of nuclear installations

DG MOVE
Transport

Decision 661/2010
Tran-European Transport Network

DG TAXUD
Customs

EU Custom policy for supply chain security and use of customs detection technology for CBRN-E

DG DEVCO
International cooperation

CBRN-E Centres of Excellence

EEAS
Ext. security

Intergovernmental

+ **UN Bodies, NATO**

Nuclear non-proliferation treaty
Chemical Weapons Convention
Biological Weapons Convention

DG GROW
Enterprise & Industry

Security Industrial policy
COM(2012)417 final
Internal Security Strategy
COM(2010)673 final
European Agenda on Security

DG TRADE

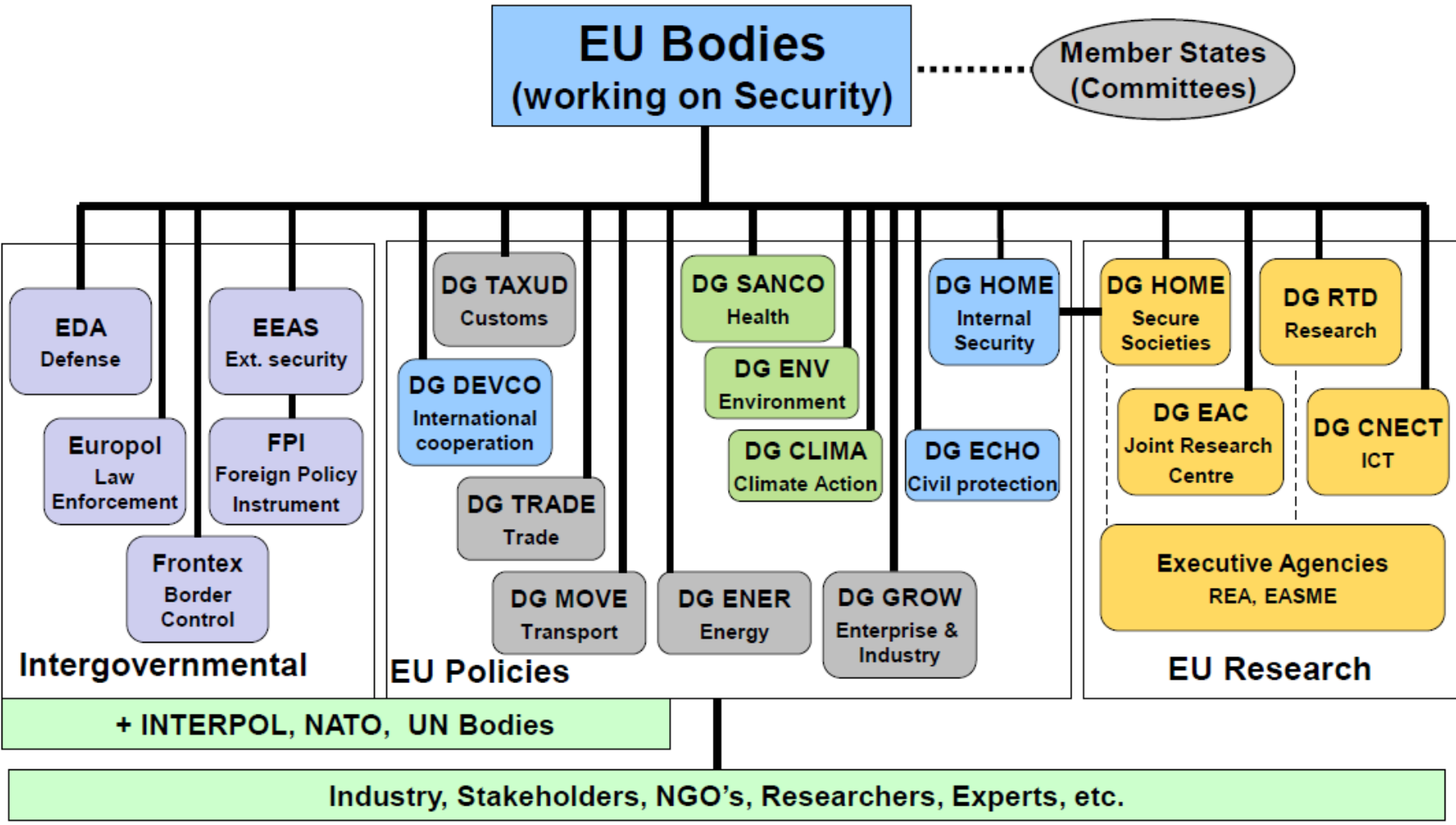
Regulation 428/2009
Transit of dual use items

HORIZON
2020

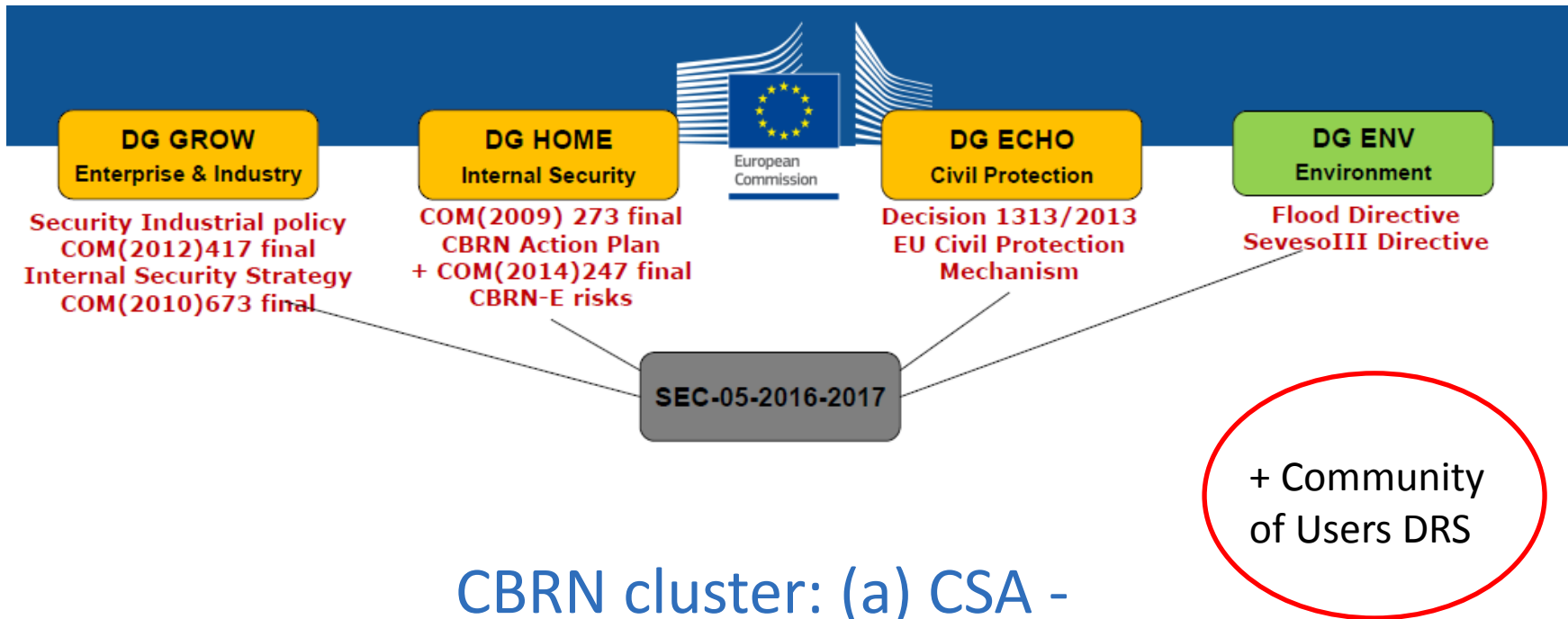
EU Reseach

EDA
Defense

Joint Investment Programme / EFC



Contexto político topic CBRN cluster




CBRN cluster: (a) CSA - 2016, (b) RIA - 2017

SEC-05-DRS-2016: CBRN cluster Part a)- CSA

Función “Integradora”:

- CSA to **gather European companies** capable and willing to market their products globally
- To p
com
- **To is**
- Part
Part



ENCIRCLE
European Cbrn Innovation for the market CLuster
(H2020 – SEC 05 – 2016 CBRN Cluster Part A)

Función

- CSA
- CSA
resu
- CSA
(b)
- The larger the number of European companies involved in the CSA, the higher its impact
- Only one such CSA maybe supported

SEC-05-DRS-2016-2017: Chemical, biological, radiological and nuclear (CBRN) cluster Part (b)

Specific Challenge:

Technologies and innovations in the field of CBRN are developed by SMEs or larger companies which often face difficulties in bringing them to markets: because they address local, small niche markets; or because these SMEs have neither the capabilities nor the strategic objective to go for foreign markets; or because the individual technologies that they develop can make it to the market only if integrated and combined with other tools by other companies that have the capabilities and the strategy to market its products abroad, and possibly on the global market.

Such synergies among companies are not frequent in the area of CBRN technologies, which is to the detriment of **industrial competitiveness**, and which limits considerably **the offer made to the practitioners** if one compares with the actual technological state-of-the-art.

SEC-05-DRS-2016-2017: Chemical, biological, radiological and nuclear (CBRN) cluster Part (b)

Scope

- **Part b) (2017): Several RIA aiming at research and development of novel CBRN technologies and innovations identified in the above-mentioned catalogue will be selected by the European Commission.** Each of these actions will be led by an SME. Each consortium implementing such a RIA must not only establish a consortium agreement among its members, but also a collaboration agreement with the participants in the CSA supported through Part a). Such a collaboration agreement must settle how the results from the RIA will be exploited and integrated into platforms managed by the CSA.
- The outcome of the proposal is expected to lead to development up to Technology Readiness Level (TRL) 4 to 7 for the RIA under part b); please see part G of the General Annexes.

SEC-05-DRS-2016-2017: Chemical, biological, radiological and nuclear (CBRN) cluster Part (b)

- **Expected Impact:**

- Shorter time to market for novel CBRN technologies and innovations
- More business deals among CBRN industrial players
- More industrial products of interest to more practitioners in Europe (and world-wide)

- **Budget:**

- EU req contribution ~ 3,5 M€/project. 13,75 M€ total budget (4/5 proyectos)

Relación Scope parte (a) y parte (b)

- (...) *The participants in the **CSA will provide platforms** (toolkits and systems in the field of CBRN) in which to integrate the technologies and innovations developed by other companies under Part b)*
- (...) *The **CSA will deliver the first version of the catalogue** on time for use in the implementation of Part b).*
- (...) *The participants in the CSA will provide commercial and other services enabling access to the global market for the results of the RIA selected for support under Part b).*
- (...) *The CSA will report publicly on its discussions, and assess and provide feedback on the impact of the business deals implemented with the research and innovation activities led by SMEs under Part b) of this topic.*

Condiciones de elegibilidad

- **For part b) (2017):** each RIA must establish its « normal » consortium agreement, as well as a **"Collaboration Agreement" with participant(s) in the CSA**. A draft of the "Collaboration Agreement" must be attached to the RIA proposal, and endorsed by at least one participant in the CSA.
- All beneficiaries of the RIA grant agreements **must be independent** from each beneficiary in the CSA.
- **Each RIA proposals must be coordinated by an SME.**
- For grants awarded under this topic **SEC-05-DRS-2017 part b)** option 1 of Article 41.3 of the [Model Grant Agreement](#) will be applied.

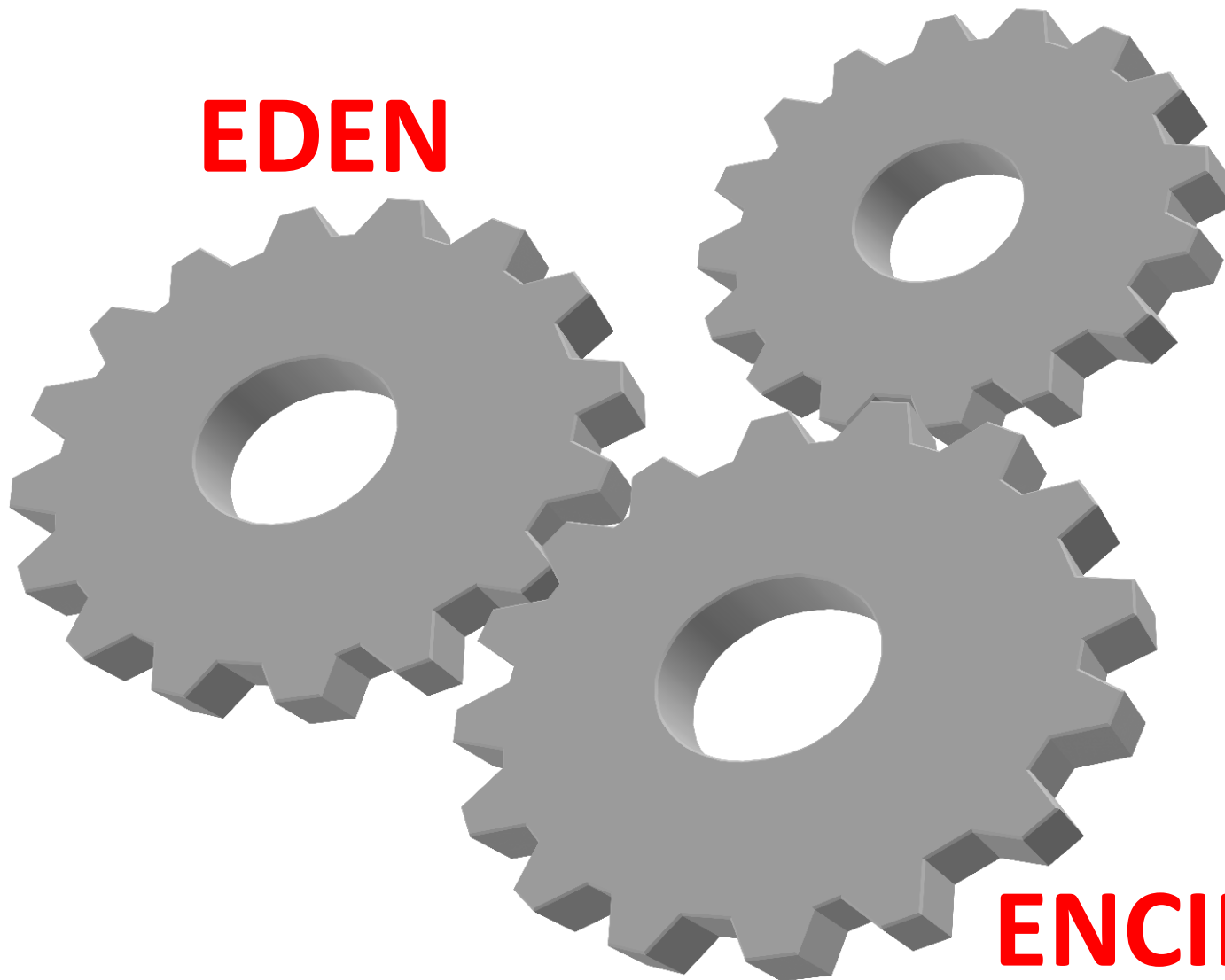
Particularidades

- **CSA ENCIRCLE empezará a mediados de marzo/ppios abril**
- **Catálogo de tecnologías**
 - Documento “vivo”
 - El **1 de marzo**, el proyecto EDEN publicará su catálogo de tecnologías. Se puede acceder a una versión beta en la EDEN STORE (<https://www.eden-security-fp7.eu/>; <https://eden-security-fp7.eu/eden,id,7,edenstore.html>)
 - Se pueden añadir “temas” y solicitar acceso al mismo a través de: clive.goodchild@baesystems.com – coordinador de EDEN
 - ENCIRCLE lo publicará en abril en su web
- ***Collaboration agreement con la CSA***
 - Debe solicitarse al coordinador de ENCIRCLE, Jean-Luc Gala: jean-luc.gala@uclouvain.be
 - Más información sobre plantilla, formato, etc., cuando se publique el WP definitivo (1/3/2017)
- **ENCIRCLE estará presente en la reunión de la CoU, 14-15 marzo en Bruselas -> posibilidad de plantear dudas**

Proyectos relacionados con el topic y antecedentes

eNOTICE

EDEN



ENCIRCLE

Proyecto ENCIRCLE



ENCIRCLE

EuropeaN Cbrn Innovation for the maRket CLustEr
(H2020 – SEC 05 – 2016 CBRN Cluster Part A)

Coordinador: Jean-Luc Gala (Université Catholique de Louvain, Bélgica)
Jean-luc.gala@uclouvain.be

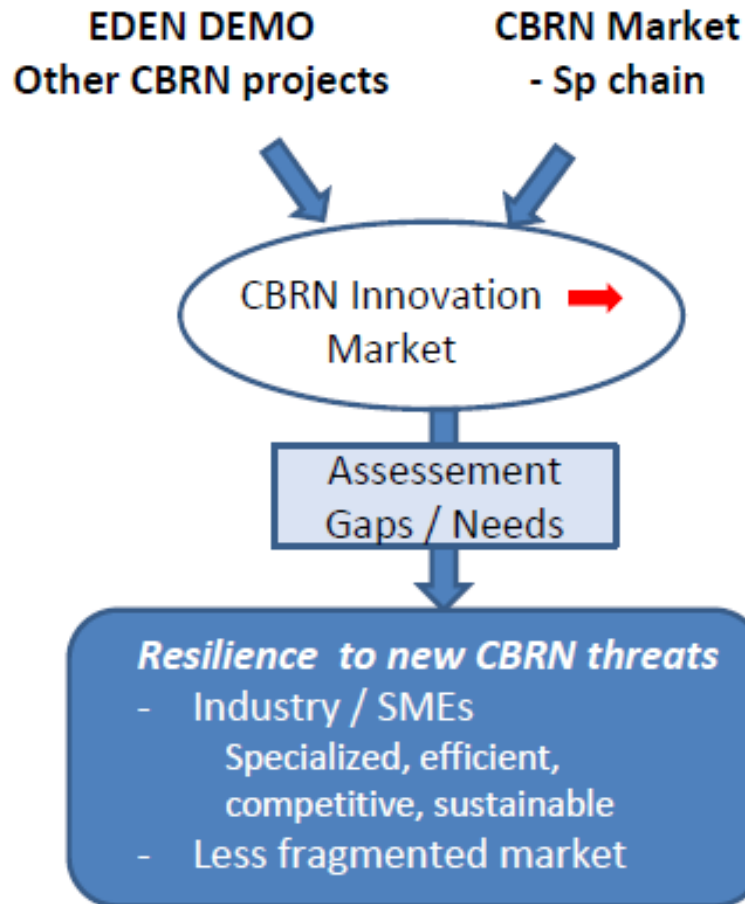
Consortio de ENCIRCLE

1 Coordinator	Université Catholique de Louvain (UCL)	BE	End User
2 Technical Coordinator	BAe SYSTEMS (BAES) <i>(FP7 EDEN Demonstration Project Coordinator)</i>	UK	Industry
3	Ouvry SAS (OUVRY) <i>(EDEN SME Cluster Vice-Chair)</i>	FR	SME
4	Przemysłowy Instytut Automatyki i Pomiarów (PIAP)	PL	RTO
5	Tecnoalimenti (TCA)	IT	End User
6	Wojskowa Akademia Techniczna (WAT)	PL	University
7	European Virtual Institute for Integrated Risk Management (EU-VRI) <i>(FP7 EDEN Supplier Platform Coordinator)</i>	DE	EEIG (SME)
8	Istituto Affari Internazionali (IAI) <i>(FP7 EDEN End User Platform Coordinator)</i>	IT	Think tank
9	Université de Nice-Sophia Antipolis (UNS)	FR	University
10	Universita Cattolica del Sacro Cuore (Policlinico Gemelli Hospital) (UCSC)	IT	End User
11	FALCON COMMUNICATIONS LIMITED (FALCON)	UK	SME
12	Smiths Detection Watford Limited (SMITHS)	UK	Industry
13	MIKKELI DEVELOPMENT MIKSEI –(MIKSEI)	FI	Industry
14	ENVIRONICS OY (EOY)	FI	Industry
15	CBRN UK (CBRN-UK)	UK	Trade Association

OJO: 2 puntos de contacto, 2 roles complementarios

- Jean-Luc Gala, Universidad Católica de Lovaina (BE), coordinador global ENCIRCLE – visión del end-user
- Clive Goodchild, BAE Systems (UK), coordinador técnico del proyecto ENCIRCLE -> coordinador del proyecto EDEN y responsable final del catálogo de tecnologías

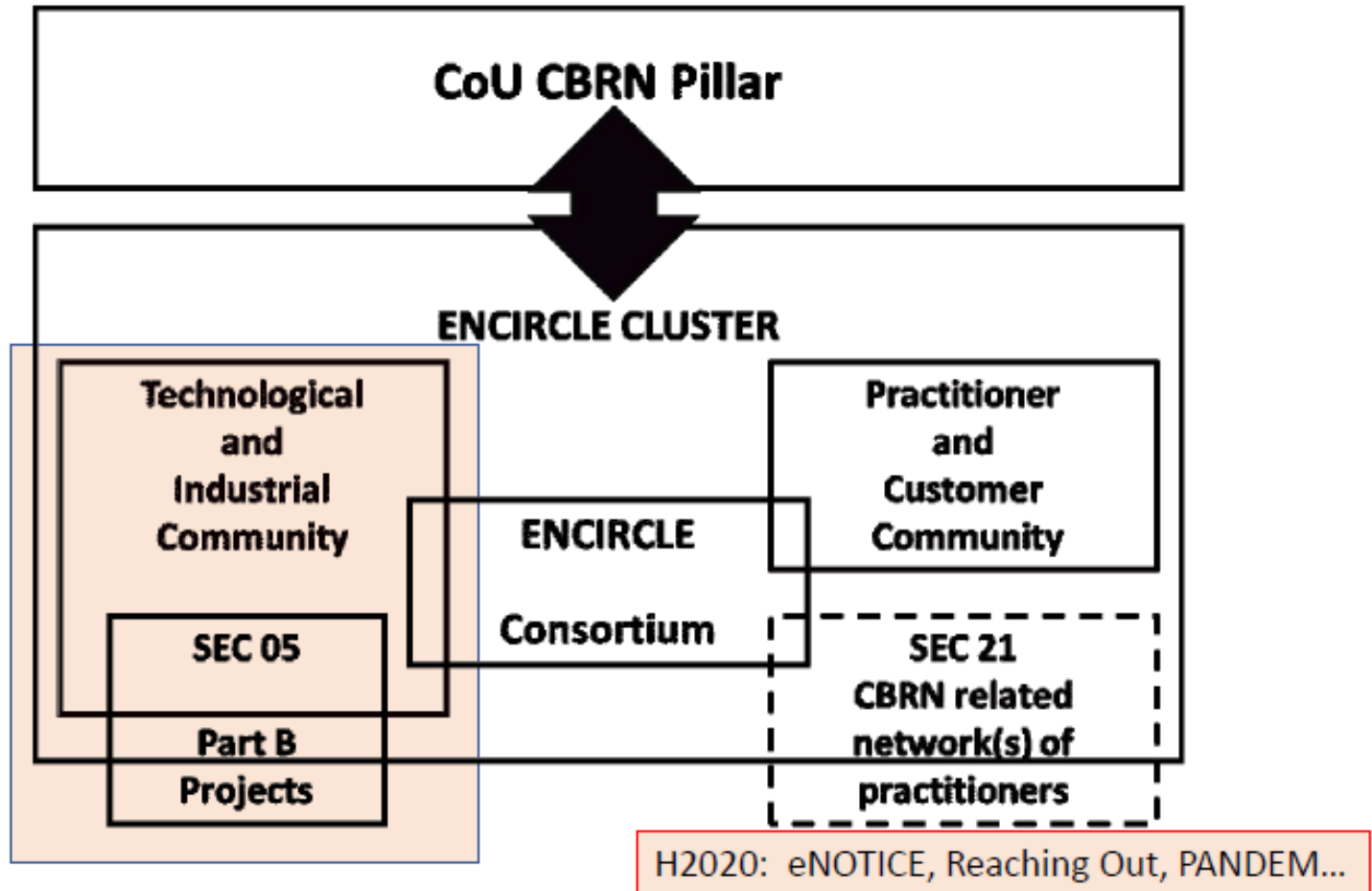
Objetivos de ENCIRCLE



5 MAIN GOALS !

- Open neutral [EU CBRN cluster](#)
- Sustainable and flexible [vision and roadmap](#) for devpt of EU CBRN market / innovations
- Integration with [platforms](#) (tools, Sv, systems, products) : standardized interfaces and future [EU Stds](#) to [integrate](#) CBRN technologies and innovations from [part B](#)
- Support CBRN Safety, Sec and Defense commercial / market services
- Improve and facilitate [EU CBRN dissemination](#) and exploitation

Cluster ENCIRCLE



Interfaces con la Comunidad

ENCIRCLE needs you !

- For **technology needs identification** (responding to the market) and road mapping, as of to-day for the 2017 part b call
- For the **CBRN Cluster dynamic catalogue**,
- For future **integration with platforms...**

ENCIRCLE will support you

- By creating links with the user community,
- By market analysis, business plans, funding support,
- By facilitating and supporting business deals...



ENCIRCLE TRANSITION PERIOD BEFORE END MARCH 2017

SEC-05-DRS Part b (2017) Call for proposals

- **ENCIRCLE** kick off on March 21-22 2017, after the 2017 call is issued
- **ENCIRCLE** will propose a list of priority topics for the 2017 Part B call, by end of March 2017
for the EC to accommodate if possible the priorities complementary to the call to focus the proposals (TBC by the EC)
- The 2017 priority topics will be selected according to the **ENCIRCLE arbitration process**, based on the state of the art knowledge, needs and gaps, technical feasibility and market opportunities
 - From EDEN (needs and gaps, tools catalogue, final workshop)
 - Other relevant projects
 - **Informal Consultation of the CBRN community (technical and industrial primarily), (deadline mid March)**



ENCIRCLE TRANSITION PERIOD CONSULTATION – SUPPLY

(informal consultation before March 15th 2017)

Supply of information to ENCIRCLE

- You have the **opportunity to provide your views** on what the **priority topics** should be by **15th March 2017**
 - Which research and innovation topic,
 - Associated need and gap,
 - Impact,
 - Maturity and timescale(in a free format)
- Note current information is aligned to STACCATO-EDEN Taxonomy
- Do not provide confidential information
- Do not give away your IPR – keep the areas high level



ENCIRCLE TRANSITION PERIOD – REQUEST for INFORMATION & Join the ENCIRCLE Community (before end of June 2017)

Request Information you may need to the ENCIRCLE consortium:

- **Initial registration**
 - Project contact Clive Goodchild:
Clive.goodchild@baesystems.com
- **Request for information** from ENCIRCLE should be what the information is required and for what purpose
- Information available on request from end of February 2017
 - Catalogue: catalogue of tools in EDEN Store
 - Unclassified needs and gaps
- **Check** will be made with DG HOME for information requests
- **NDA** will be signed between the parties restricting the use of the information supplied for that project

ENCIRCLE PROJECT OPERATIONAL (after June 2017)



- **Access, registration and catalogue population** will then be via the **ENCIRCLE portal**
after agreement with the ENCIRCLE consortium
- **Static Tool catalogue** will then be replaced by the **ENCIRCLE Dynamic Catalogue**
 - Initial instance expected in April 2017
 - Complete instance expected June 2017
 - Supported by **networks and associated services**
- **Consolidated Recommended Priority topics** for the 2017 call will be made available end of March
 - on ENCIRCLE website
 - and via DG HOME

SEC-05-DRS 2017 Part b proposal preparation: interfaces with ENCIRCLE



- ENCIRCLE will not interfere in the evaluation/selection of the proposals.
- **Prepare your proposal « as usual »:** in line with all the aspects of the call (SME lead, response to the priority topics, etc)
- If your proposal is selected, the **article 41.3 of the Model Grant Agreement will apply**. It requires confidential exchanges of results.
Ensure in your proposal that you agree to exchange information and results with the ENCIRCLE consortium in order to monitor the progress achieved and the future integration and exploitation opportunities, in line with Article 41.3 option 1 of the Model Grant Agreement.
- Specific agreements with the ENCIRCLE consortium can be described in the consortium agreement, if needed. In any case, **the IP will remain within the participant that produces it** and decides of its exploitation.
- Partners of the selected proposals may wish during the course of the project to set **specific agreements** with integrators or other suppliers for further exploitation.

Recordatorio

- **Catálogo de tecnologías**

- El **1 de marzo**, el proyecto EDEN publicará su catálogo de tecnologías. Se puede acceder a una versión beta en la EDEN STORE (<https://www.eden-security-fp7.eu/>; <https://eden-security-fp7.eu/eden,id,7,edenstore.html>)
- **Se pueden añadir “temas” y solicitar acceso al mismo a través de: clive.goodchild@baesystems.com – coordinador de EDEN (sugerimos poner en copia al NCP y a la Comisión: HOME-SECURITY-RESEARCH-HELPDESK@ec.europa.eu)**
- ENCIRCLE lo publicará en abril en su web

- ***Collaboration agreement con la CSA***

- **Debe solicitarse al coordinador de ENCIRCLE, Jean-Luc Gala: jean-luc.gala@uclouvain.be**
- Más información sobre plantilla, formato, etc., cuando se publique el WP definitivo (1/3/2017)

Proyecto EDEN

- Proyecto demostrador de tecnologías CBRN-E financiado en FP7
- 2 entregables de interés:
 - Catalogue of tools as to 31st of December 2016
 - EDEN unclassified needs and gaps
- [Documentos disponibles bajo petición a Clive Goodchild, https://www.eden-security-fp7.eu/;](https://www.eden-security-fp7.eu/)
<https://eden-security-fp7.eu/eden,id,7,edenstore.html>
- El catálogo desarrollado por EDEN ha sido el “input” para ENCIRCLE, aunque éste puede todavía modificarse y completarse

Proyecto eNOTICE (SEC-21-GM-2016)

Direct Link with the CLUSTER: **eNOTICE !**

European Network Of CBRN Training Centres

Horizon 2020 SEC-21-GM-2016-2017 topic (UCL – coordinator):

- **Framework for European network of CBRN TC, testing and demonstration sites:**
 - Roster of facilities and first responders, technology providers and operators
 - Mapping of capabilities and sustainable framework
- **Web based information and communication platform**
- **Operational transactional network:** pooling and sharing resources, expertise, practices (demonstrations with deployable laboratories, simulations and serious gaming, recommendations for policy).

eNOTICE Consortium

Participant Number	Participant organisation name	Country	Type
1.	<u>COORDINATOR</u> Université catholique de Louvain (UCL)	BE	End-user, CBRN mobile capacity
2.	<u>Technical coordinator</u> Campus Vesta APB (CV)	BE	Civil Training cent
3.	Fire and Rescue Service of Seine et Marne (SDIS77)	FR	Civil Training cent
4.	Association pour la recherche et le développement des méthodes et processus industriels (ARMINES)	FR	RTO, simulations
5.	Umea Universitet (UMU)	SE	European CBRNE centre
6.	Fire Department Dortmund (FDDO)	DE	Civil Training cent
7.	University of Paderborn (UPB)	DE	University
8.	Joint CBRN Defence Centre of Excellence Vyškov (JCBRND COE)	CZ	Military Training centre
9.	Middle East Technical University (METU)	TR	Serious gaming an simulations centre
10.	University of Rome Tor Vergata and The Italian Joint NBC Defense School (UNITOV)	IT	University and Military CBRN Training school
11.	West Midlands Police, National CBRN centre (WMP)	UK	Civil CBRN Training centre
12.	National Defense University, CBRN Defence Training Centre (NDU)	PL	Military CBRN Training centre
13.	Scientific and Research Centre for Fire Protection (CNBOP-PIB)	PL	Civil Training cent

eNOTICE Goal

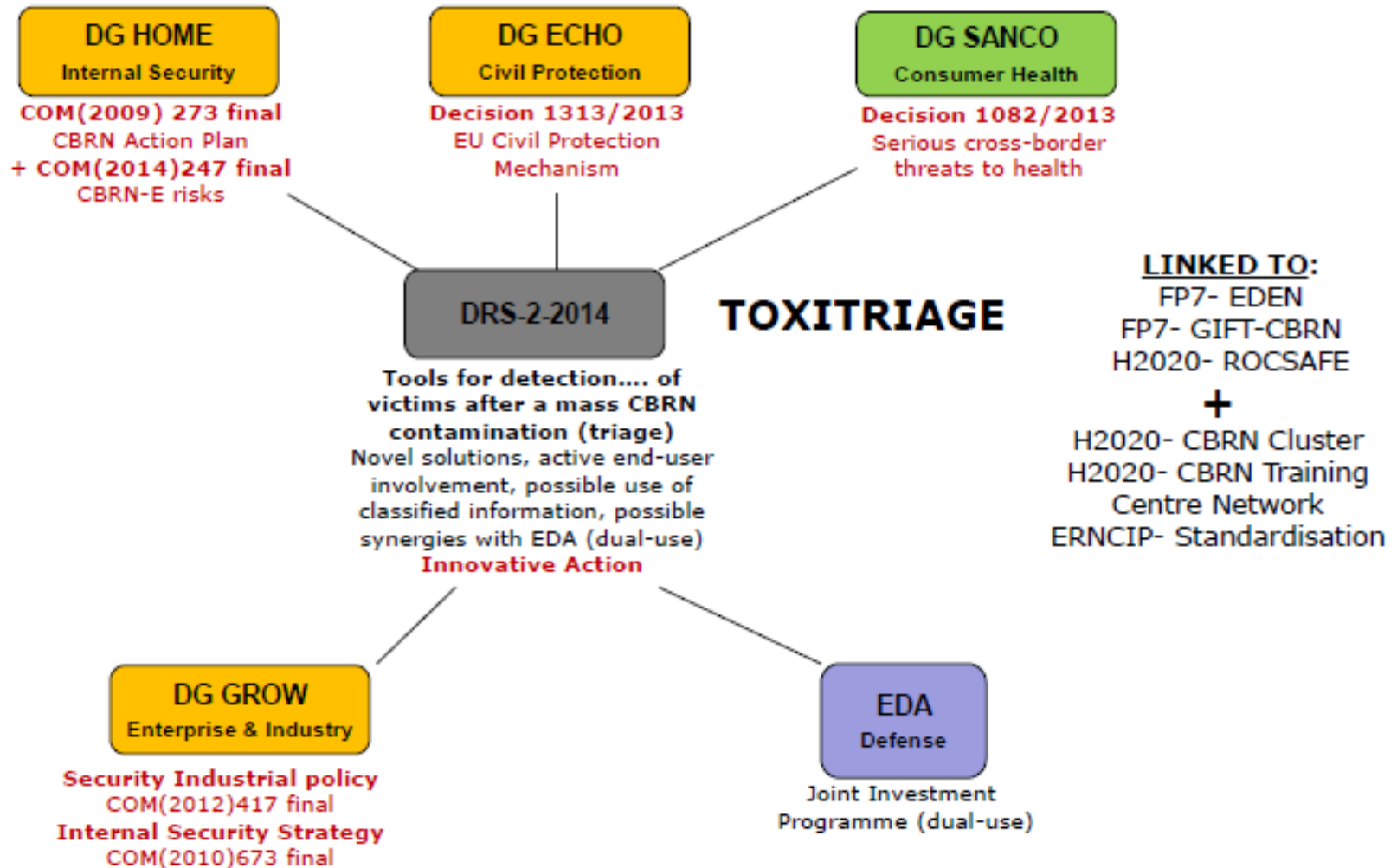
- EU network of CBRN training, testing and demo centres
- to enhance CBRN training capacity for improved preparedness and incident response through increased collaboration between CBRN training centres and practitioners' needs-driven CBRN innovation and research.

**Endusers-guided innovation
linked to National and EU policy**



**CBRN Cluster
ENCIRCLE**

TOXI-TRIAGE



Dudas/cuestiones

Puntos Nacionales de Contacto de la temática



Dirección Programas Internacionales

Maite Boyero Egido
maite.boyero@cdti.es



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Ainara Ripa Centeno
ripaca@inta.es

El equipo CDTI en Bruselas



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Marina Martínez
marina.cdti@sost.be