



European  
Commission



# EU Research for Secure Societies

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- ✓ ***EU Security Research***
- ✓ ***"Secure Societies" – the C-BORD project***
- ✓ ***Towards Horizon Europe***



## ***State Of The Union speech (2018)***

*"Europeans rightly expect their Union to keep them safe (...) Terrorists know no borders. We cannot allow ourselves to become unwitting accomplices because of our inability to cooperate."*

*"When fires rage in one European country, all of Europe burns"*

## ***European Agenda on Security (2015)***

*"**Research and innovation are essential** if the EU is to keep up-to-date with evolving security needs. Research can identify new security threats and their impacts on European societies.*

*Horizon 2020 can play a central role in ensuring that **EU's research effort is well targeted**, including factoring in the needs of law enforcement authorities by further involving end-users at all stages of the process, from conception to market."*

# Title XIX - Research and technological development and space

## *Policy objectives:*

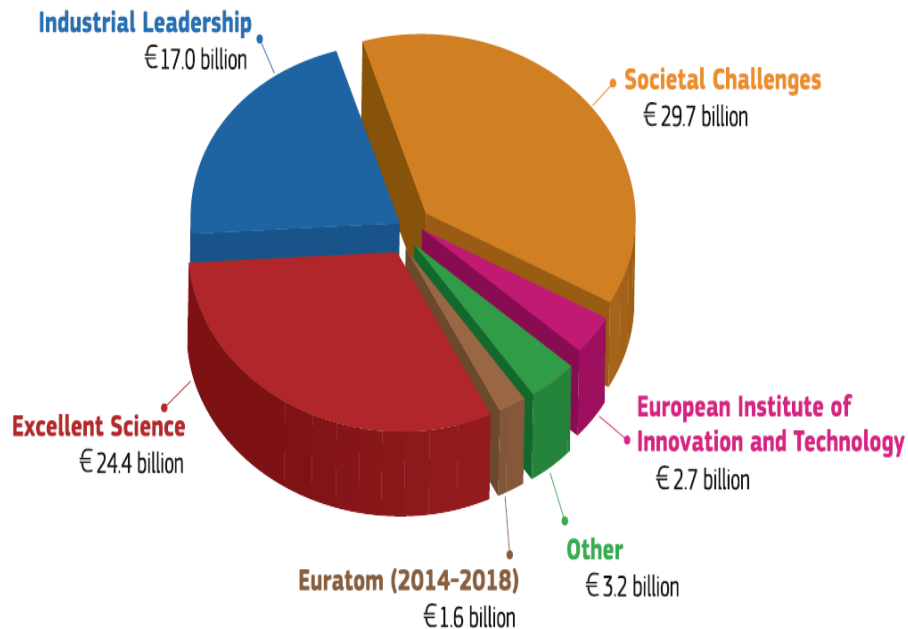
- *Contribute to setting up a European Research Area,*
- *Support the implementation of EU policies,*
- *Support the competitiveness of the EU Industry.*

## *Framework Programmes*

- *Topics identified in yearly Work programmes*
- *Collaborative R&D: Min 3 entities from 3 countries*
- *Competitive selection based on Peer Review*
- *Grants (subventions): calls for proposals*

# Horizon 2020

budget ~80 B€ (in current prices)



## SOCIETAL CHALLENGES in Horizon 2020

(€ million, 2014-2020)



Health, demographic change and wellbeing	7 472
Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the Bio-economy	3 851
Secure, clean and efficient energy *	5 931
Smart, green and integrated transport	6 339
Climate action, environment, resource efficiency and raw materials	3 081
Inclusive, innovative and reflective societies	1 310
<b>Secure Societies</b>	<b>1 695</b>
Science with and for society	462
Spreading excellence and widening participation	816

# The security research landscape

Majority of MS depend entirely on H2020 for security research;

**only eight MS** (AT, DE, FI, FR, NL, PL, SE, UK) have national security research programmes.

H2020 in this area represents **50% of overall public funding** for security research in the EU

*Notwithstanding the effort still  
**gap between research output and market uptake***

- *highly fragmented and mostly institutional market*
- *the limits of existing funding schemes*
- *the misalignment between demand and supply*

# Research is not a stand alone process

Research is part of a wider process:  
***The Capability Development Process***

## **Four main Actors:**

- **Policy makers**
- **Practitioners**
- **Industry**
- **Researchers**



## OBJECTIVES

1. Fight crime, illegal trafficking and terrorism, including understanding and tackling terrorist ideas and beliefs
2. Protect and improve the **resilience** of critical infrastructures, **supply chains** and transport modes
3. Strengthen security through border management
4. Improve **cyber security**
5. Increase Europe's **resilience** to crises and disasters
6. Ensure **privacy and freedom**, including in the Internet and enhancing the societal legal and ethical understanding of all areas of security, risk and management
7. Enhance standardisation and interoperability of systems, including for emergency purposes
6. Support the Union's **external security** policies including through conflict prevention and peace-building



## Supply Chain Security topic 2: Technologies for inspections of large volume freight

**BES-9-2014**

### Expected impact:

*The research is expected to provide a substantial contribution in the prevention of the unlawful transport of dangerous and illicit materials, also protecting critical elements of the supply chain from attacks and disruptions. A technology which could scan a load with high probability of detection of particular key commodities would increase efficiency and throughput and reduce cost and delays to innocent shippers.*

*Solutions are therefore to be developed to allow for an increased assurance level in particular for dense containerised cargo, avoiding the need to unnecessarily resorting to physical inspection. As the research should facilitate and expedite the smooth flow of legitimate international trade through improved security controls, it would support the work of WCO for high risk cargo.*

The outcome of the proposal is expected to lead to development up to Technology Readiness Level (TRL) 7 (*system prototype demonstration in operational environment*)

## C-BORD

**Project ID:** 653323

**Funded under:**

[H2020-EU.3.7. - Secure societies - Protecting freedom and security of Europe and its citizens](#)

### effective Container inspection at BORDer control points

From 2015-06-01 to 2018-11-30, ongoing project | [C-BORD Website](#)

#### Project details

**Total cost:**

EUR 11 826 452,50

**EU contribution:**

EUR 11 826 452,50

**Coordinated in:**

France

**Topic(s):**

[BES-09-2014 - Supply Chain Security topic 2: Technologies for inspections of large volume freight](#)

**Call for proposal:**

H2020-BES-2014     [See other projects for this call](#)

**Funding scheme:**

RIA - Research and Innovation action

## Sub-topic 4: [2019] Detecting threats in the stream of commerce without disrupting business

- The flow of goods crossing borders is increasing, whilst *ways of concealing methods for dangerous materials and illegally trafficked goods* are improving. The detection of such dangerous and illegal goods should be facilitated by novel technologies and sensing strategies characterized by risk-based protection and non-intrusive security checks that can be implemented without disrupting business.
- Proposals should target the automation and integration of existing technologies for the purpose of identifying the largest possible amount of threat materials and ensuring the full supervision of the logistic flow of goods. This would require *exploiting information* obtained through the analysis of cargo flow data available from open source and documentary control, intelligence gathering, risk management, as well as through *physical detection or inspection* of cargo in means of transport, luggage, or carried by individuals. The fitness for purpose of novel solutions should be validated at the EU external border, in a context chosen on the basis of a sound and factual risk analysis.
- Of particular relevance: the enhancement of *detection capabilities of contraband (mainly cigarettes) hidden in high density cargo* (coal, iron ore) in particular for rail cargo transport, and well as the fight against illicit *trafficking of radioactive and nuclear* (NR) materials (including through the establishment of trans-European network of detection facilities with its specific concept of operations).
- **~ 7 M€**                      **3 border authorities / customs**

# Horizon Europe

is the Commission proposal for a **€ 100 billion** research and innovation funding programme for seven years (2021-2027)



to strengthen the EU's scientific and technological bases



to boost Europe's innovation capacity, competitiveness and jobs



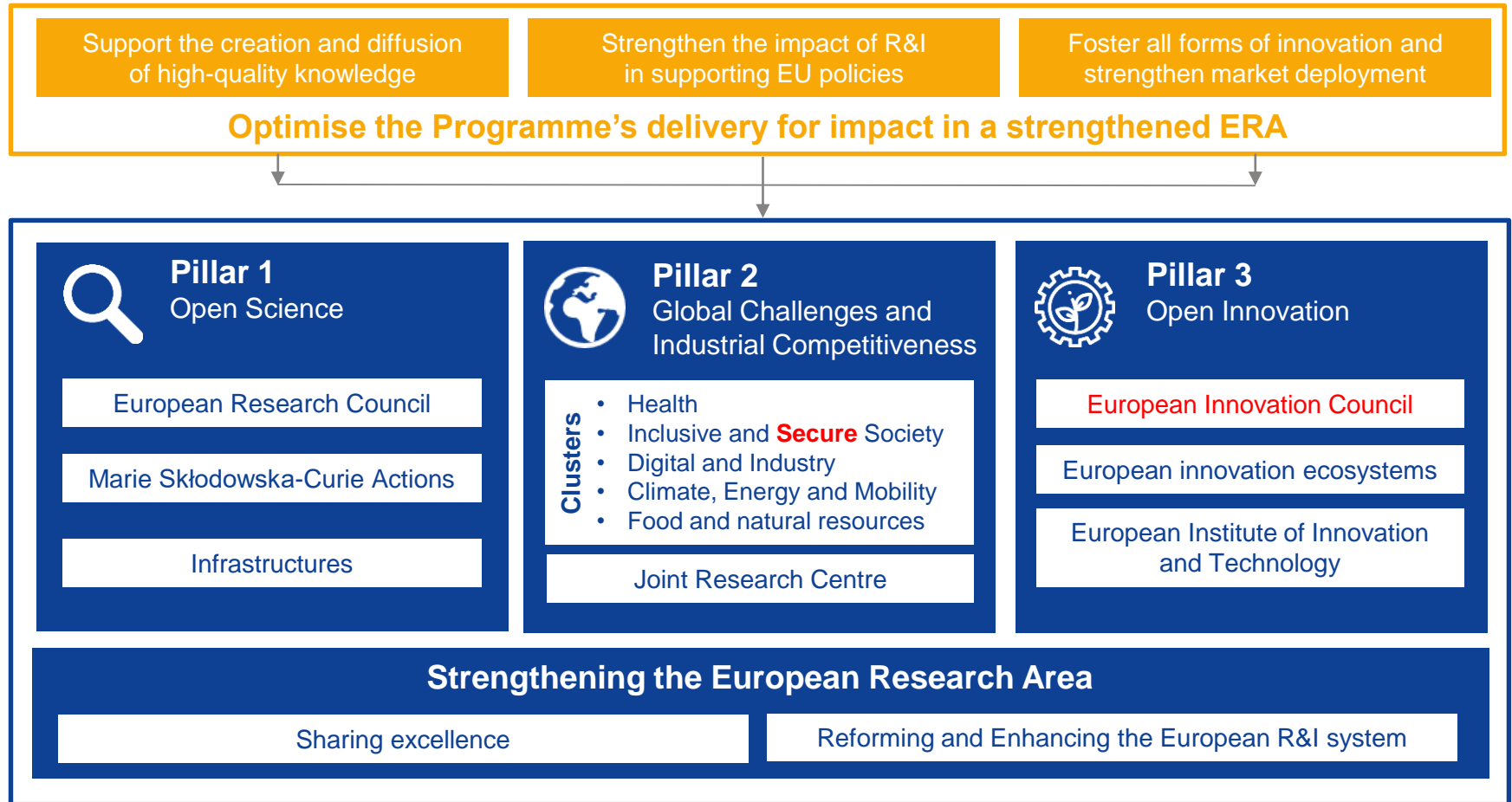
to deliver on citizens' priorities and sustain our socio-economic model and values

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**€ 4.1 billion** are proposed to be allocated for defence research, in a separate proposal for a European Defence Fund

# Horizon Europe: evolution not revolution

## Specific objectives of the Programme



## Pillar 2

# Global Challenges & Industrial Competitiveness:

boosting key technologies and solutions underpinning EU policies & Sustainable Development Goals

<b>Clusters</b> implemented through usual calls, <b>missions &amp; partnerships</b>	Budget (€ billion)
Health	€ 7.7
Inclusive and Secure Societies	€ 2.8
Digital and Industry	€ 15
Climate, Energy and Mobility	€ 15
Food and Natural Resources	€ 10
<b>Joint Research Centre</b> supports European policies with independent scientific evidence & technical support throughout the policy cycle	€ 2.2

# Next steps



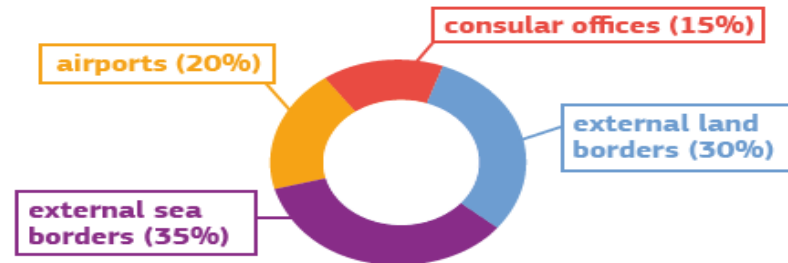


## PRIORITIES UNDER THE NEW BORDER FUND



- **Continued and strengthened focus on stronger borders:** Priority areas include: help Member States to buy equipment, including for deployment to the EBCGA, support for new IT systems, actions against migrant smugglers and traffickers, support for search and rescue missions, capacity building for swift operational support when needed

- **Supporting Member States:** €4.8 billion in long-term funding to support Member States border and visa policy. Each Member State will receive a fixed sum of €5 million with the remainder distributed based on the workload, pressure and threat level at external land borders (30%), external sea borders (35%), airports (20%) and consular offices (15%);



Source: European Commission



- **A flexible and fast response:** €3.2 billion reserved for EU-level projects and swift and flexible support in urgent cases



- **Strengthening the EU's visa policy:** support the modernisation of the EU's visa policy, including with new IT systems



- **Better customs controls equipment:** €1.3 billion for new state-of-the-art equipment, for example: scanners, automated number plate detection systems



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# Thank you!

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