

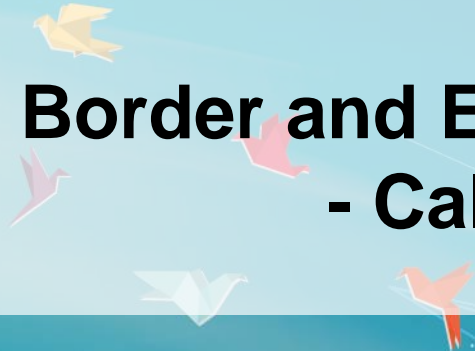


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Horizon 2020 Work Programme for Research & Innovation 2018-2020

Border and External Security - Call 2019 -



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Research and
Innovation

LEGALLY NOT BINDING

The reasoning behind the BES call

Development of technologies, capabilities and solutions to:

- **Improve EU border security:**

- Flow of people: research will support the exploitation of the potential given by the **European Border Surveillance System** (EUROSUR - Regulation No 1052/2013) and promote an enhanced use of new technology for border checks in relation to the **SMART BORDERS** legislative initiative (DG HOME)

- Flow of goods: research will address, in the context of the EU's customs policy, supply chain security trying to strike the right balance with trade facilitation (DG TAXUD)

- **Support the EU External Security Policies in civilian tasks (EEAS).**

.. **But also understanding the phenomena with impact on border and external security. Social sciences and humanities involved.**

The Policy landscape

EU Agenda on Security

Organised Crime & Human Trafficking

We help EU States in taking consistent action to effectively prevent and counter the many facets of modern organised crime.



[THB Directive](#)

[Expl. of Children Directive](#)

[Serious and Organised Crime](#)

EU Agenda on Migration

Schengen, Borders & Visas

The EU's common external border calls for EU States' cooperation on border control and visa policy to ensure freedom and security within Europe.



[Smart Borders](#)

[Interoperability of EU Information systems](#)

[European Border And Coast Guard](#)

[Document fraud](#)

Irregular Migration & Return

In 2014, 276 113 migrants entered the EU irregularly via land, air and sea routes. Most migrants have recourse to criminal networks of smugglers.



[EUROSUR](#)

[Migrant Smugg.](#)

Taxation and Customs Union

[EU Customs Strategy](#)

[Union Customs Code](#)

Union External Security Policies in Civilian Tasks

[CSDP](#)

General information on the call/topic

Call:

- **Border and External Security**

Topics 2018:

- **SU-BES01-2018-2019-2020:** Human factors and Social, societal and organisational aspects of border and external security (RIA)
- **SU-BES02-2018-2019-2020:** Technologies to enhance border and external security (RIA)
- **SU-BES03-2018-2019-2020:** Demonstration of applied solutions to enhance border and external security (IA)

Budgetary overview

Topics (Type of Action)	Budget (EUR million)			Deadlines
	2018	2019	2020	
	Opening: 15 Mar	2018		
SU-BES01/02/03	41,00			28 Aug 2018
	Opening: 19 Mar	2019		
SU-BES01-2018-2019-2020 (RIA)		10,00		22 Aug 2019
SU-BES02-2018-2019-2020 (RIA)		21,00		
SU-BES03-2018-2019-2020 (IA)		10,00		
	Opening: TBD		2020	
SU-BES01/02/03			TBD	To be defined
Overall indicative budget	41,00	41,00		

Scope

SU-BES01-2018-2019-2020 (RIA)

Human factors, and social, societal and organisational aspects of border and external security

- **Specific challenge:**

- The adoption of appropriate organisational measures and the deeper understanding of how novel technologies and social media impact border control.

- **Two sub-topics open in 2019:**

- **Sub-topic 2:** Modelling, predicting and dealing with migration flows to avoid tensions and violence.

- Solutions for better management of migration flows to reduce tensions and violence. Modelling and prediction, incl. gender aspects, public sentiment, perceptions of migration, socio-economic indicators.

- **Sub-topic Open:** Other issues relevant to this challenge

Scope

SU-BES01-2018-2019-2020 (RIA)

Human factors, and social, societal and organisational aspects of border and external security

- **Other considerations:**

- In compliance with EU societal values, fundamental rights and applicable legislation.
- Synergies and complementarity are pursued (e.g. [KCMD](#))
- Indicative budget: 5M€

- **Expected impact:**

- **Knowledge and evidence-based support to policy developments.**
- **Methods for better management of complexity.**
- **Advances through cross fertilisation of concepts resulting from the collision of different ways of thinking.**

Scope

SU-BES01-2018-2019-2020 (RIA)

Human factors, and social, societal and organisational aspects of border and external security

- **Eligibility condition:**

- In 2018 predefined sub-topics require the active involvement of at least 3 Border or Coast Guards Authorities from at least 3 different EU or Associated countries. Where applicable Sub-topic: Open requires the active involvement of at least 5 such organisations, from at least 5 different EU or Associated countries.

- **In 2019 such conditions cease to apply.**

- Border and Coast Guard Authorities are eligible. **Their participation is encouraged.**

Scope

SU-BES02-2018-2019-2020 (RIA)

Technologies to enhance border and external security

- **Specific challenge:**

- Development of novel technologies, provided that they are affordable, accepted by citizens and customized and implemented for the needs of security practitioners.

- **Three sub-topics open in 2019:**

- **Sub-topic 3:** Security on-board passenger ships.

- **Sub-topic 4:** Detecting threats in the stream of commerce without disrupting business.

- **Sub-topic Open:** Other issues relevant to this challenge

Scope

SU-BES02-2018-2019-2020 (RIA)

Technologies to enhance border and external security

- **Three sub-topics open in 2019 (cont.):**

- **Sub-topic 3:** Security on-board passenger ships.

- Ensure security all along the “life cycle” of a journey.
- New technologies (considering deployment and integration) and novel procedures.

- **Sub-topic 4:** Detecting threats in the stream of commerce without disrupting business.

- Risk-based and non-intrusive detection of dangerous and illegal goods ensuring the full supervision of the logistic flow.
- contraband (mainly cigarettes) hidden in high density cargo (coal, iron ore) in particular for rail cargo transport. Illicit trafficking of NR materials.
- exploiting information about cargo flow data.

Scope

SU-BES02-2018-2019-2020 (RIA)

Technologies to enhance border and external security

- **Other considerations:**

- In compliance with EU societal values, fundamental rights and applicable legislation.
- TRL up to 5/6.
- Indicative budget: 7M€

- **Expected impact:**

- **Short term: Benchmarks to assess progress, plan for uptake of results**
- **Mid term: Evidence based knowledge, progress beyond state of the art, technical and operational guidelines**
- **Long term: Implementation of actions (Smart borders, EU Maritime Security Strategy, EU Strategy and Action Plan for customs risk management)**

Scope

SU-BES03-2018-2019-2020 (IA)

Demonstration of applied solutions to enhance border and external security

- **Specific challenge:**

- Demonstration (and validation) of highly mature technologies (TRL 6-8) in the context of actual operations.

- **Two sub-topics open in 2019:**

- **Sub-topic 2:** New concepts for decision support and information systems.

- Improving situation awareness at strategic level and tactical level. Combination of different information sources.
- Interoperability of surveillance systems. Exploitation of data tailored to specific environments. Availability of data.

- **Sub-topic Open:** Other issues relevant to this challenge

Scope

SU-BES03-2018-2019-2020 (IA)

Demonstration of applied solutions to enhance border and external security

- **Other considerations:**

- In compliance with EU societal values, fundamental rights and applicable legislation.
- Coordinated by competent border/coast guard authority.
- Demonstrate complementarity and no overlap with actions under [PADR-US-01-2017](#)
- Indicative budget: 5M€

- **Expected impact:**

- **Mid term: Validation in real operational environment, plans for uptake and transnational procurement.**
- **Long term: Improved cost-effectiveness/efficiency, Interoperability standards, improved situation awareness and reaction capability.**
- **Contribute to Common Application of Surveillance Tools**

Thank you!

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www.ec.europa.eu/research

Participant Portal www

<http://ec.europa.eu/programmes/horizon2020/en/h2020-section/cross-cutting-activities-focus-areas>