



EUROPEAN BORDER AND COAST GUARD AGENCY

HORIZON EUROPE INFODAY 2025

FRONTEX

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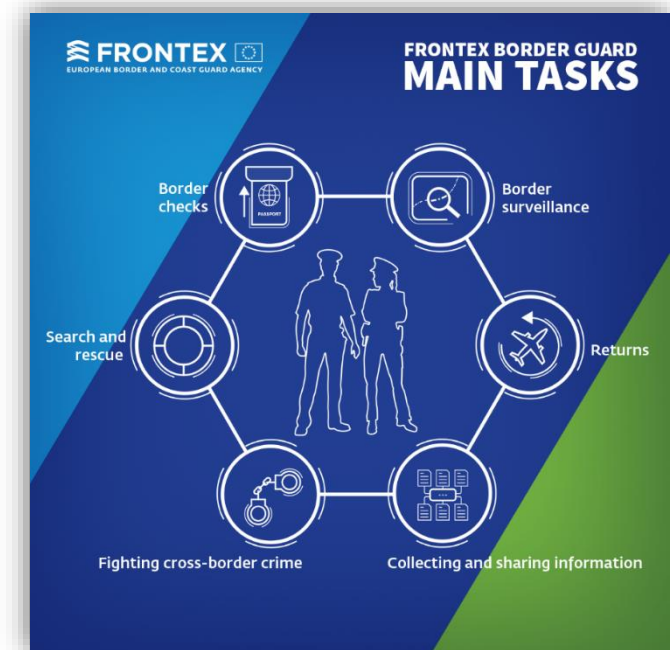
Research and Innovation Unit

The Agency's tasks



FRONTEX MANDATE - ART. 66 +

- Monitor and contribute to research and innovation
- Identify key research themes
- Implement parts of Horizon (Border Security)
- Implement pilot projects



TERMS OF REFERENCE (TOR) WITH DG HOME


- Identify and elaborate research priorities / themes
- Support the evaluation of project proposals
- Monitoring of Border Security research projects
- Disseminate and exploit successful results

FRONTEx WEBSITE - EU RESEARCH SECTION

EU Research

Introduction **Horizon projects** Research Grants News and events


1/4 →



PARSEC

Project PARSEC addresses the detection of threats and illicit goods in postal and express courier flow.


[Read more](#)



iFLOWS

Project iFLOWS will design, develop, integrate, test, and validate a novel multi-tier synergistic toolkit for enhancing intelligence extraction, screening and detection of illicit material and hazardous substances within courier and postal flows moving across and within EU borders.


[Read more](#)



Melchior

Project MELCHIOR aims to improve a novel technology for fast detection of drugs, explosives, weapons, and illicit goods concealed on individuals and in critical cavities of the human body based on infrasound mechanical impedance interrogation, optionally complemented with other harmless and non-contact technologies.

[Read more](#)




FLEXI-cross

FLEXI-cross project aims to increase security and reliability of EU border checks for people and goods through the development, deployment, and validation of a toolkit of innovative border-checking solutions.

[Read more](#)

EU research


Introduction Horizon projects **Research grants** News and events



TUTELARY - Coastal surveillance system exploiting photonics-based radar security

The TUTELARY project aims to develop a coastal surveillance system based on a coherent photonic radar and – thanks to the use of novel, coherent signal processing techniques – to offer high-performance target detection, tracking, and imaging, thus enhancing coastal security.

[Read more](#)



SWEETIDS - Sweet spot ID documentation system

The project aims to introduce a novel cost-effective, reliable, and easy-to-operate device for travel document checks that uses multiple light sources to acquire a series of images of the most vulnerable security features ('sweet spots') on travel documents, to help detecting most frequent manipulations.

[Read more](#)

EU research

Introduction Horizon projects Research grants **News and events**

1/11 →



RESEARCH STUDY ON SENSORS IN DEPLOYABLE TECHNOLOGIES FOR BORDER SURVEILLANCE

Second insight from the Frontex Research Study on Sensors Used in Deployable Technologies for Border Surveillance

2025-04-30

The current insight presents a preview of a comparative analysis of the technical and operational capabilities of different sensor technologies for border surveillance for the land, air, and maritime domains.

<https://frontex.europa.eu/innovation/eu-research/introduction/>

GENERAL INDICATIONS



- Create a consortium fit for the purpose - key role of EBCG authorities
- High importance of practical demonstration and testing activities
- Keep up-to-date with relevant EU policies and regulations
- All required information about the EBCG is available online, e.g.:
 - Frontex public register of documents
 - Management Board Decision 16/2024 on the approval of the Capability Roadmap of the European Border and Coast Guard
 - Frontex Research and Innovation
 - Research Study on High-Altitude Pseudo-Satellites: First Take-aways
 - Artificial Intelligence-based capabilities for the European Border and Coast Guard
- Frontex cannot / does not need to be in the consortium or the Advisory Board
- More info required - use the Horizon channel for questions

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