

Project type: Research & Innovation Action

Start date: 1 October 2022

Duration: 36 months

Total budget: ≈ 4,7 million EUR



PARSEC receives funding from the European Union's Horizon Europe programme under the grant agreement No 101073963.

## Project partners

CBRA Services, Belgium (Coordinator)  
Customs Administration of the Netherlands  
TWI Hellas, Greece  
Direct Conversion, Sweden  
Università Cattolica del Sacro Cuore, Italy  
TAPA EMEA, the Netherlands  
Dynaxion, the Netherlands  
The National Police of the Netherlands  
PostNL, the Netherlands  
Bpost, Belgium  
The Belgian Federal Police  
Poste Italiane, Italy  
Technical University of Delft, the Netherlands  
Customs Administration of Hungary  
Customs Administration of Belgium  
UK Border Force  
HALO X-ray Technologies, the UK  
University of Lausanne, Switzerland  
Cross-border Research Association, Switzerland

### CONTACT THE COORDINATOR

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## Parcel and Letter Security for Postal and Express Courier Flows

- PARSEC is a research and innovation project funded by the Horizon Europe programme
- The project delivers next-generation technologies and solutions to fight the abuse of postal and express services for crime and terrorism
- PARSEC consortium involves three postal operators, four customs authorities, two police agencies as well as technology, research and management partners

[www.parsec-project.eu](http://www.parsec-project.eu)

Twitter: @PARSEC\_project

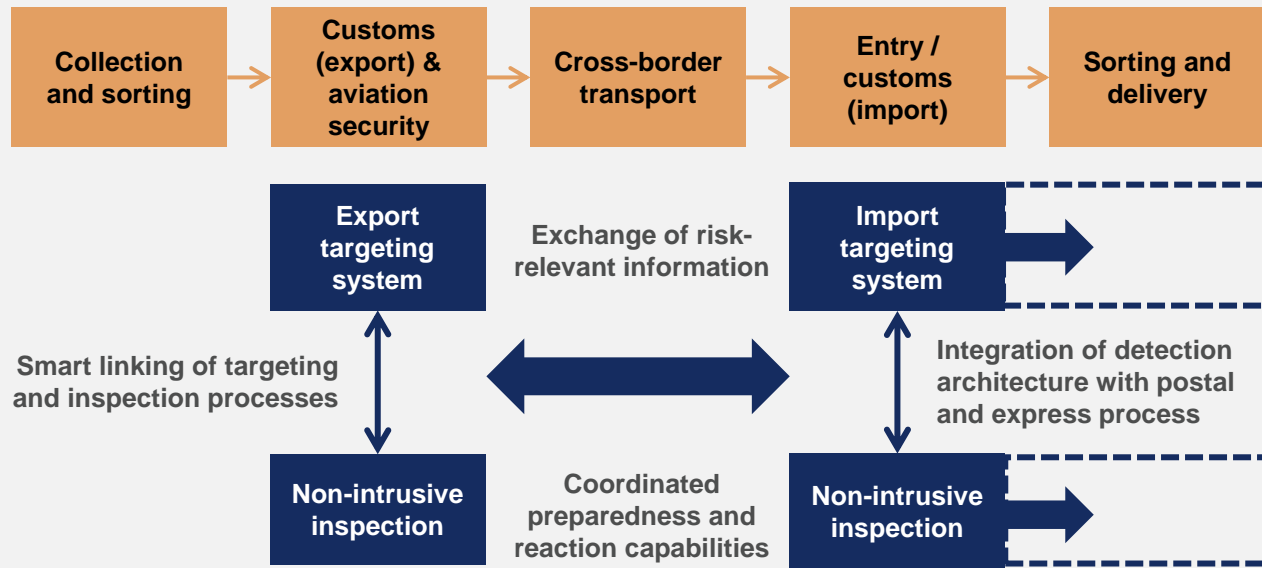
## Project goals

1. Enhance detection of threats and illicit goods in the postal and express courier flows through delivery of new data analytics techniques and novel non-intrusive technologies
2. Achieve higher logistics and detection performances in the context of postal and express flows
3. Strengthen the preparedness and reaction capacities in the postal and parcel service
4. Ensure future uptake of project results via effective dissemination and exploitation activities

## Technology stack

- Combined data science
- Multi-energy photon counting
- Neutron-induced gamma-ray spectroscopy
- X-ray diffraction
- Flow simulation tool

## PARSEC concept



## Design of detection architecture



- Use of new analytics tools
- Access to new datasets
- New risk profiles and high-risk indicators
- Upgraded hardware
- Focused threat classifiers
- Customization into the postal and express process