



FASTER, GREENER, AND MORE SECURE
BORDER CHECKS FOR EUROPE

Optimized
Risk-based
Intelligence-driven
Operations for
Next-generation
Secure, Reliable and
Privacy-preserving
Border Management

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ABOUT

ORION develops next-generation technologies to streamline border, customs, and security checks. It integrates AI, advanced biometrics, and interoperable systems to enhance coordination, improve traveler experience, and ensure strong privacy and legal compliance across EU borders.

OBJECTIVES

Improve coordination

between border, customs, and security controls with novel technologies.

Optimise resource allocation

to reduce waiting times while ensuring high security.

Enhance threat

detection in complex environments such as Ro-Ro ferry operations.

Ensure interoperability

with existing EU databases and legacy systems.

Increase energy efficiency

and lower environmental impact by minimising queues and congestion.

Guarantee strong

ethical and legal compliance to protect travellers' data.

SOLUTIONS

ORION delivers interoperable solutions for intelligent border management, including AI-powered risk analysis, secure identity verification, vehicle screening and recognition, traveller flow optimisation, and privacy-preserving decision-support tools

USE CASES

Intelligent Management of Embarkation Processes for Ro-Ro Ferries
Romania

Enhanced Risk Assessment and Resource Allocation at Land Border Crossings
Slovenia

Optimised Traveller Disembarkation from Ro-Ro Ferries at High-Traffic Ports
Bulgaria

Improved Seamless Identity Verification at Train Stations
United Kingdom

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YouTube channel



ORION - Horizon Europe Project



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CONSORTIUM

ORION brings together **21 partners from 14 countries**, including border and security authorities, industry and technology providers, research centres, universities, and transport operators.



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