



# EFFISEC



## EFFicient Integrated SECurity Checkpoints

Integrated Project  
(FP7-SEC-2007-01)  
N° 217991



SEVENTH FRAMEWORK  
PROGRAMME

Security Research

### Project Objectives

Illegal immigration and illicit material detection is a growing concern at the European borders; in that respect border security checkpoints must be particularly efficient against any kind of threat. Seaport checkpoints differ strongly from airports ones and are more complex to process.

The global objective of EFFISEC, a mission oriented project, is to deliver to border authorities more efficient technological equipment that provides higher security level of identity and luggage control of pedestrians and passengers inside vehicles, at land and maritime checkpoints. In the same time, EFFISEC will maintain or improve the flow of people crossing borders and will improve the work conditions of border inspectors, with more powerful capabilities, less repetitive tasks, and more ergonomic equipment.

### Description of work

EFFISEC is based on the integration of a set of existing and complementary technologies (biometrics, e-documents, signal recognition and image analysis, trace and bulk detection of substances, etc.). It will take into account legal and privacy issues and will also include a standardisation step. EFFISEC will allow performing systematic security check of pedestrians, cars and buses with a high level of confidence while keeping high the flow crossing a border. It will allow lowering the number of travellers, luggage and vehicles that have to go through in depth supplementary checks, out of line. EFFISEC will benefit of recent progress in e-Gates for Airport, and it is expected that some results (like automatic luggage scanning with the e-Gate) will be transferred back to airport security solutions. The project concentrates on land and seaport checkpoints. It is clear that transposition of the project results to other types of checkpoints, as for example trains and in particular high speed train (HST/TGV) stations, will be quite easy and it is expected that it will be carried by some EFFISEC partners interested in providing security solutions. By the end of the project, EFFISEC prototypes results will need industrial development for massive deployment in mid-term (2014-2020) at land/maritime border check points.

## Expected results

EFFISEC will provide border officers with up-to-dated technologies:

- allowing systematic in depth controls of travellers, luggage and vehicles, for pedestrians and people inside vehicles, through the use of automatic gates and portable identity check and scanning equipment,
- providing objective criteria for submitting some travellers/ vehicles/luggage to an extensive check in specific lanes.

Based on a detailed analysis of the operational requirements (including ergonomics, security and legal issues) for all types of borders, EFFISEC will focus on four technical key issues: documents and identity check, detection of illicit substances, video surveillance and secured communications. The technology proposed will be demonstrated for pedestrians, and travellers using cars and buses; standardisation aspects will be considered and results disseminated.

**Total Cost:**  
**EU Contribution requested:**  
**Duration:**

16 310 974 Euros  
10 034 837 Euros  
4 years

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Elsag Datamat Spa	IT
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Sociedad Europea de Analisis Diferencial de Movilidad	ES
Technical Research Centre of Finland	FI
Swedish Defense Research Agency	SE
University of Reading	UK
Ministry of Interior – Romanian Border Police	RO
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