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Proactive Enhancement of Human Performance in Border Control

BODEGA research project in the perspective of the EU "Smart Borders" Initiative





Challenges in EU border control

- Increasing passenger flows at Schengen and non-Schengen borders
- Easier access for EU citizens and frequent travellers
- Enhanced border check and security control (less errors, more efficient...)
- Use of biometric technologies to identify travellers (ethics, privacy, data protection, acceptance, acceptability...)
- Increase of automation in border control (self-service through kiosks, e-Gates...)





Europe's Vision of Border Control

EU "Smart Borders"

• the EC wants easier access and enhanced security by 2020

Smart Border Initiative

- EES Entry / Exit System
- RTP Registered Travellers Programme







(BOrdDErGuArd): Proactive Enhancement of Human Performance in Border Control

- H2020
- Time frame: 01/06/2015 01/06/2018
- **Budget:** 5 M€
- Coordinator: VTT, Finland

www.bodega-project.eu





Consortium

14 partners from 7 countries UIC as rail end-users representative







Integrative approach

- Aim: to enhance the border control efficiency without side effects to the end users
- All transport modes: land, air, and maritime
- Travelling experience: waiting time, privacy, acceptability, etc.
- Recommendations for future "Smart Borders" (Schengen Area)



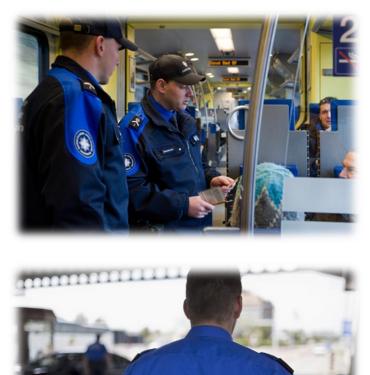






Objectives (1)

- Developing an integrative approach with ethical, societal and legal considerations into a set of human, organisational and technical factors
- Constructing a greater understanding of border guard's work and border control (future smart borders)
- Gathering new knowledge about psychological and organisational aspects



Grenzwache Garde-frontière Guardia di confine





Objectives (2)

- Designing and developing new guidelines, recommendations and specifications
- Developing and validating a useful **PROPER toolbox**







Field studies

AIR

Athens & Rhodos airport Vienna airport Charleroi airport Brussels

MARITIME

Port of Piraeus & Rhodos (Greece) Port of Ostande, Zeebruges or Nieuport (Belgium)

RAIL

Brussels Midi – Channel Terminal Exit Schengen border point **Poland – Belarus** Exit Schengen border point

ROAD

Greece? Romania? Entry / Exit Schengen border point





Field studies (2)

Who participates?

- Border guards working at external Schengen Area borders
- Managers, trainers and top managers of border guards
- Security staff involved in the border control process
- European and non-European travellers over 18 years old

What?

Common methodology:

- systematic observations
- interviews
- short surveys

Parallel periodic end-user workshops



Expected results

- Improving the effectiveness of EU border control
- Contributing to the implementation of the Smart borders initiative (and future regulation) regarding to organisational and Human Factors
- Improving the efficiency and attractiveness of transport by facilitating the flow and border checks of regular travellers
- Reinforcing checks while speeding up border crossing for regular travelers
- Optimizing procedures and enhancing the security at the moment of the crossing of the EU external borders
- Proactively target the needs and requirements of users, such as border management decision-makers, border guards and citizens (regular travellers)



Further information

Project webpage

http://www.bodegaproject.eu/

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