



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 653676



Proactive Enhancement
of Human Performance in Border Control

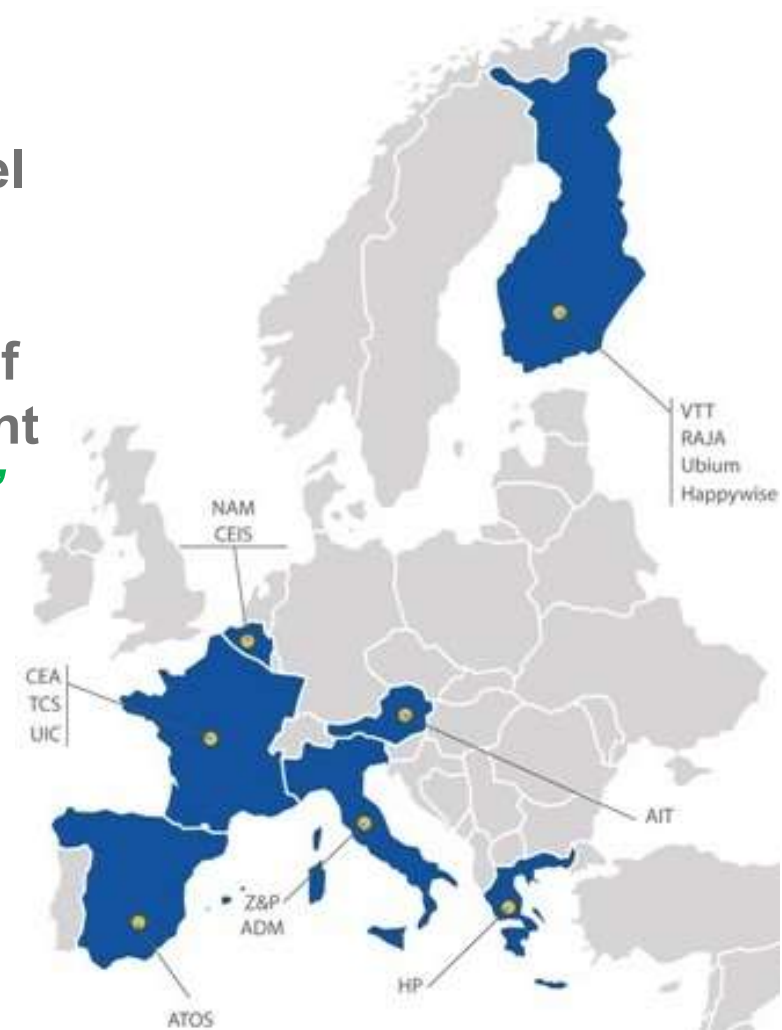
BODEGA: "BOrdDErGuArd - Proactive Enhancement of Human Performance in Border Control"

Veikko Ikonen, VTT Ltd
BODEGA project coordinator
SDW 2018
Tuesday 26th June 2018

BODEGA - objectives

BODEGA project will **investigate and model** Human Factors in border control to provide **innovative socio-technical solutions** for enhancing border guards' performance of critical tasks, support border management decision-making, *and optimize travellers' border crossing experience.*

BODEGA will develop a **PROPER toolbox** which integrates the solutions for **easy adoption** of the BODEGA's **results** by stakeholders in border control.



SciencesPo
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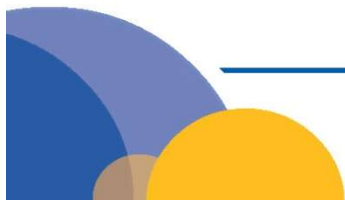
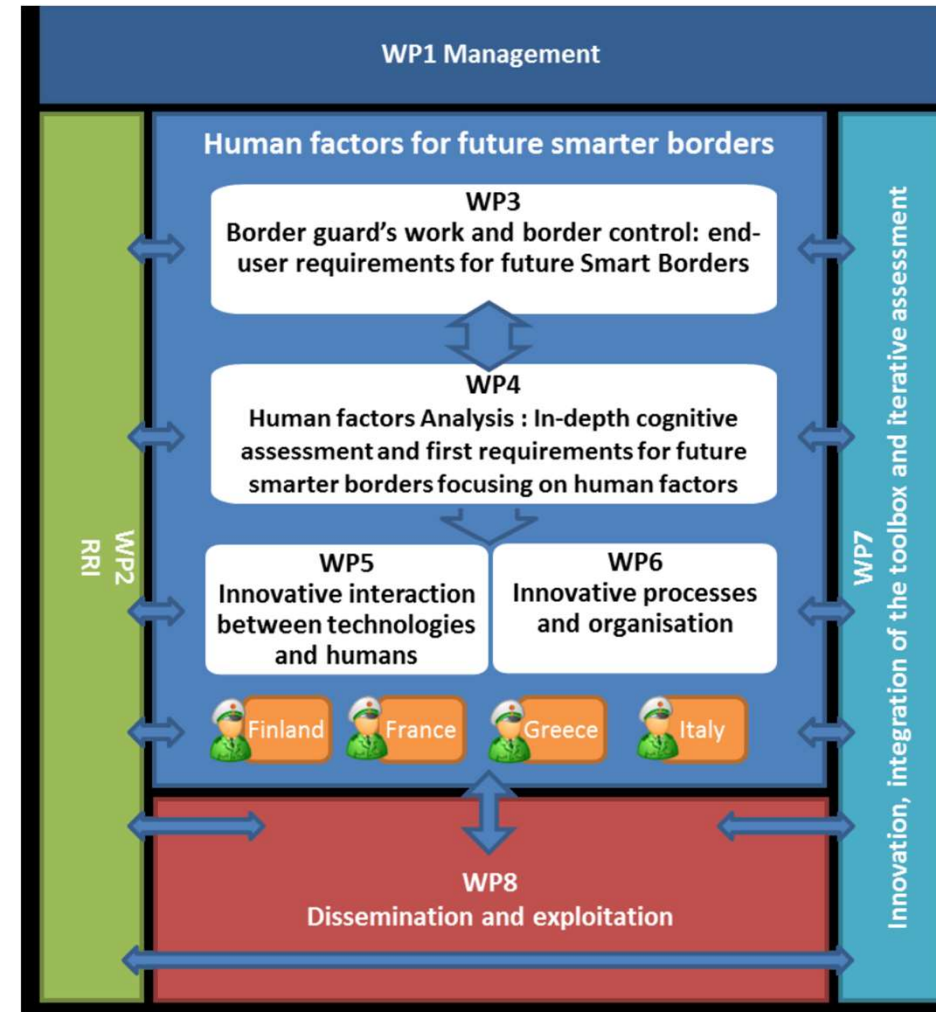


GROUPE
Imprimerie Nationale



BODEGA Objectives and Workflow

- Developing an 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
- Taking into account also traveler perspective



Border Control Authorities

CodeGame

Simulation type education game running in web-browser. CodeGame is created in this project as proposal for using games in education of border guards.



Training Risk analysis Mobile devices Border Control Authorities

Recommendations for future smarter borders focusing on human factors

Border Control Authorities

Recommendations for traveler cooperation

Border Control Authorities Traveler Associations Traveller experience Biometrics Data protection

Decision-Support System for Smart Borders

Border Control Authorities

Traveler Associations

Business

RRI Ethics Societal issues

Data protection Legal

Research ethics Methodologies

Cognitive analysis

Task modelling Activity models

Human factors

Design guidelines

Document verification

Biometrics Risk analysis

Mobile devices ABC

Traveller experience

Decision making Training

Operational development

Management Industry

BODEGA (<http://bodega-project.eu/>)

- The **PROPER toolbox** will be co-designed and thoroughly **validated with relevant stakeholders and end-users**.
- The work will be carried within the framework of Responsible Research and Innovation to ensure the ethical and societal compatibility of the project work and provided solutions as well as emphasis on the foreseen future with smarter borders.
- BODEGA validated, modular and flexible toolbox will enhance the performance of border control stakeholders - borderguards, border authorities and citizens - to create more secure, efficient and effective border crossing, focusing on the borders between Schengen agreement and external countries.



Agenda for today

Time	Seminar contents	Presenter
KNOWLEDGE THEATRE, 2ND FLOOR		
The BODEGA project – PART 1		
10.30 – 10.40	"BODEGA project introduction"	Veikko Ikonen (VTT)
10.40 – 11.10	"End user needs and requirements for future smarter borders"	Christine Mégard (CEA), Virginie Papillault (UIC)
11.10 – 11.35	"Optimising the tandem between document inspection systems and humans"	Franz Daubner (AIT)
11.35 – 11.55	"Identity verification with fingerprints"	Arndt Bonitz (AIT)
11.55 – 12.15	"HMI design for mobile border control solutions"	Arndt Bonitz (AIT)
12.15 – 12.35	"Enhancing the border control process with video-based technologies"	Andreas Kriechbaum-Zabini (AIT)
KNOWLEDGE THEATRE, 2ND FLOOR		
The BODEGA project – PART 2		
14.30-14.55	"Big data analytics as a support tool for risk analysis"	Alessandro Bonzio (Z&P), Raul Sevilla (ATOS)
14.55-15.20	"Innovative border control processes and organisation"	Carolina Islas (Ubium), Laura Salmela (VTT)
15:20-15.45	"Changing borders, changing (in)security"	Anaïs Rességuier (Sciences Po)
15:45- 16:05	"Demonstrations"	tbc



THANK YOU FOR YOUR ATTENTION!

BODEGA stand at SDW Exhibition 26th and 27th

<http://bodega-project.eu/>

