



**"SMart mobILity at the European land borders"**

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## **Center for Research and Technology Hellas – Information Technologies Institute**

*The H2020 project SMILE:*

**SMILE: SMart mobILity at the European land borders**

**Presenter:**



Information Technologies Institute  
Centre for Research and Technology Hellas



Horizon 2020  
European Union funding  
for Research & Innovation

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Grant Agreement #740931

# SMILE Project – General Information

## Project summary

- July 2017 to June 2020
- Activity: SEC-14-BES-2016 - Towards reducing the cost of technologies in land border security applications
- Work Programme Objective: Secure societies - Protecting freedom and security of Europe and its citizens
- Grant Agreement No: 740931
- Duration: 36 Months
- Coordinator: CERTH / ITI

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**Twitter:** [@smile\\_h2020](https://twitter.com/smile_h2020)

**LinkedIn:** <https://www.linkedin.com/company/smile-smart-mobility-at-the-european-land-borders>

# SMILE Project - Consortium

- 15 complementary partners from 8 different European Countries, namely Bulgaria, France, Germany, Greece, Hungary, Norway, Romania, and the UK.



# SMILE Project - Summary

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- Deliver a palette of low-cost technological solutions that will make the management of land border control points less resource intensive, while at the same time will contribute to the traveller's convenience without sacrificing security
- Will explore the capabilities of smart mobile devices in biometric control for low-cost but secure and trusted authentication, embedding their exploitation as a part of a multimodal biometric verification process that complements existing approaches.
- The long-term goal of the SMILE team is to provide a set of affordable and easy to be installed modules, to support the needs of EU Land Border Infrastructures.



# SMILE Project - Challenges

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- Increased flow of people & goods at the European Land Borders, in particular with the continuously growing refugee's flows from Asia - 1.8 Million irregular border crossings at Europe's external borders at 2015 alone
- An ongoing threat to Europe's internal security due to recent terrorist attacks
- Long & unpleasant delays at borders
- Labor-intensive, time-consuming, costly border control & flow management systems

## **Imagine**

- A border crossing point that could provide an integrated solution, friendly both for travellers & border officers, based on the usage of biometrics that we already use in our everyday life through our smartphones
- A solution that leverages a blend of the best existing technologies & innovations in the fields of encryption & cloud computing, which will together offer an unobstructed flow of people, robust border checks and enhanced data privacy & security

# SMILE Project - Objectives

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- Provide efficient, hierarchical (weak and strong) and unobtrusive, on-the-move security control
- To introduce mobile equipment and Extension of eElectronics services for BCP checks
- Robust multi-factor and multimodal authentication system for BCP cases, enhanced by soft biometrics
- To propose and develop services running on BCPs that will enable their interconnection in a secure, interoperable and secure manner
- Provide legal guidelines that should be adopted and taking into account for further designing and delivering of BCP-related technologies.
- To create a scalable and holistic paradigm for secure inner and cross-border data exchange, storage and overall handling of travellers data in a legal and ethical way both at national and European levels
- Demonstration, Validation, and Evaluation of the SMILE BCP equipment in the context of a real BCP.

## Expected outcomes

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- Improving life quality of European and non-European people crossing European borders.
- Improving the security of European citizens
- Enhancing European policies.
- Fighting against illegal immigration and organized crime.
- Enhancing European expertise in the border security field and developing key enabling technologies for Next Generation cross border gates.
- Strengthen collaboration between different European stakeholders in the border security area.
- Link the existing systems to the Next Generation cross border checkpoints.
- Smart, sustainable & inclusive growth - *developing an economy based on knowledge and innovation.*





SMILE – GA: 740931

***Thank you for your attention!***

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Contact Details:

