

"SMart mobiLity at the European land borders"

# 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







## **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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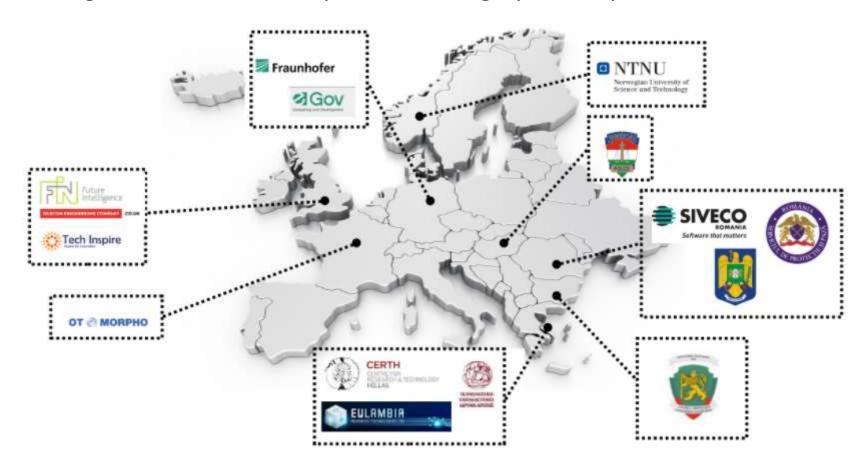
LinkedIn: https://www.linkedin.com/company/smile-smart-mobility-at-the-european-

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**

- 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**

- 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**

- 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**

- 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.



# Thank you for your attention!



**Contact Details:**