

## Challenges

- ✓ Increased flow of people & goods at the European land borders
- ✓ 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

## Our ambition

- ✓ A border crossing point that could provide a comprehensive solution, friendly for both travelers & border guards, based on the use of the biometrics we already use in our everyday life through our smartphones
- ✓ A solution that exploits a blend of the best existing technologies & innovations in the areas of encryption & cloud computing, which will together provide an unhindered flow of people, strong border controls & improved data privacy and security

## What is SMILE Action aiming at?

- ✓ Minimise the exposure of Border Control Points to security risks and threats
- ✓ Help the border authorities successfully respond to security incidents while also relieving them of all unnecessary and costly efforts to locate, acquire and use the appropriate technology



## A solution oriented approach

- ✓ A traveler risk analysis module
- ✓ Reduction of border waiting times using a fast lane, assuming pre-registration through a smartphone application
- ✓ Introduction of mobile equipment and extension of e-services for Border Control Point checks

## Objectives

- ✓ Provide efficient, hierarchical & unobtrusive on-the-move security controls
- ✓ Robust multi-factor & multimodal authentication system for BCP cases, enhanced by soft biometric features
- ✓ Develop services running on BCP that will allow their interconnection in a secure & interoperable manner
- ✓ Provide legal guidelines
- ✓ Create a scalable and holistic model for secure internal & cross-border data exchange, storage & overall legal & ethical management of traveller data
- ✓ Demonstration, validation & evaluation of the SMILE BCP equipment within a real BCP

## A dedicated toolbox

- ✓ Interoperable Smart GateWay
- ✓ Embedded Security Elements
- ✓ Homomorphic Encryption mechanisms
- ✓ Photonic Physical Unclonable Functions
- ✓ Cloud trust protocol
- ✓ Single Search GUI

