i BorderCtrl system

- follows the principles of the Entry/Exit (EES) and the European Travel Information and Authorisation System (ETIAS) Systems
- paves the way towards the interoperability of EU systems for security, border and migration management

i BorderCtrl mission

To provide a unified solution in a two-stage-procedure with aim to speed up the land border crossings and at the same time enhance security by bringing together many state of the art technologies.

i BorderCtrl modules

- Document Authenticity Analytics Tool
- Face Matching Tool
- Automatic Deception Detection System and Avatar
- Hidden Human Detection Tool
- Risked Based Assessment Tool
- Biometrics Module - Palm Vein
- Biometrics Module - Fingerprint
- External Legacy and Social interfaces
- Border Control Analytics Tool
iBorderCtrl innovations

- **Introducing a Pre-Registration Phase**: Travellers - before arriving at the borders - register through their mobile phone, tablet or computer, submit their travel documents and participate in an interview by a virtual border agent.
- **Empowering border guards at Border Crossing**: Key technologies are provided to the border guards, both integrated to existing static installations as well as in a portable hardware unit.
- **Conducting a Risk Based Assessment**: Takes advantage of the checks outcomes and classifies travelers in terms of risk, supporting the decision-making of the border guard.
- **Introducing Analytics in the Border Control context**: Analysis of data to identify new patterns and knowledge in order to increase the accuracy at the individual crossing level.

- **Speeding up the border crossing** for valid and bona-fide travelers while highlighting those that must be further checked by agents.
- **Going beyond Biometrics**: Collects data onto biomarkers stemming from the virtual border agent interview, indicating the probability of deceit.
- **Cross-checking traveler’s information from legacy systems and social media**, such as VIS, SIS II and Twitter providing the necessary interoperability interfaces.
- **Enhancing the User Experience through three Applications/Interfaces**: Traveler User Application, Border Guard User Application for the border checks and Border Manager User Application for the superiors responsible for resources management.

iBorderCtrl technologies

![iBorderCtrl technologies](image)

**Consortium**

This project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement No 720626.

[www.iborderctrl.eu](http://www.iborderctrl.eu) | [@iBorderCtrl](https://twitter.com/iBorderCtrl) | [iBorderCtrl](https://www.linkedin.com/company/iBorderCtrl/)

![Scan here to visit the iBorderCtrl website:](qr_code)
How will iBorderCtrl system work?

**Registration**
- Third Country Nationals and EU citizens

**Examples of data requested**
- Personal data - travel data (including the country of first entry to Schengen)
- Travel documents - background questions (based on typical border authorities' questions)

**Processing**

**Identity**
- (Biographical and biometric checks)

**Travel document**

**Answers to questions**
- Against Security Databases
- Social Media Accounts
- Deception
- Previous Travel Record (risk-based)

**Unique travel ID**
- (linked to unique traveler)

**Response to Applicants**
- Feedback
  - Travel authorization (QR code)
  - Refusal
  - Traffic statistics / useful information

**Crossing Point Procedure**
- Crossing Point Check
  - Documents
  - Biometrics
  - Security Databases
  - Previous travel record (risk-based)

- Assist Border Guard's decision
- Feedback to iBorderCtrl system (risk for travel records)
- Entry Exit System