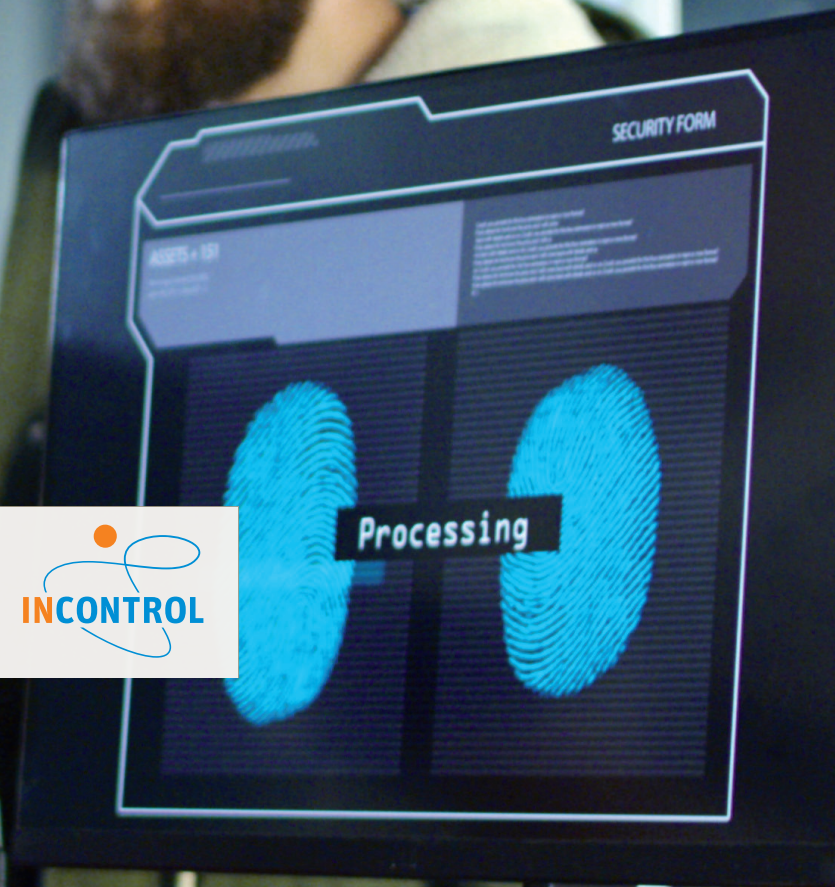


EU BORDER CONTROL:  
**HOW TO MEET EES LEGISLATION RULES?**





‘Using InControl software our team, consisting of Terminal Operations, IT, Passenger Experience and Border Police, gained insight in the impact of EES. We reviewed several scenarios and chose the best to meet EES legislation and passenger centric processes.’

Manager Terminal Operations – Major European Airport.

### FUNDAMENTAL BENEFITS

- Meet EES Legislation rules
- EES Impact and What-If scenarios
- Staff and Passenger preparation
- Graphs and 2D & 3D visualization
- Speed up Design and Decision processes
- Contribution to the Business case, communication and stake holder Commitment
- Optimize Operations and Passenger Experiences

### NEW EU BORDER REGULATION: EES

EES stands for Entry and Exit System; the new European legislation concerning Border Control. All TCN (Third Country Nationals) travellers will be biometrically registered when entering or exiting the Schengen area. In short, it will replace the stamps in a passport. Although it is a European wide program, every country has to determine how to meet EES legislation and how it will fit into their border control, operations and IT-architecture. EES-implementation has to be prepared and integrated at ports, airports, railway stations and any other (inland)borders.

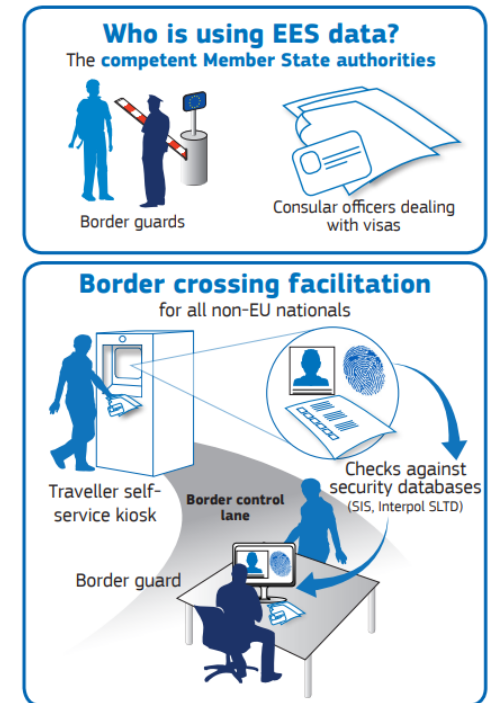


Figure 1: EES functionality in short  
Source: website EU

## INSIGHTS IN BORDER CONTROL DESIGN AND OPERATIONS

The implementation of EES at European borders implicates the introduction of new technologies and has a direct impact on TCN-passenger flows and process times. This can also cause a delay of other passengers coming to or from EU-countries and therefore can influence passenger experiences. A positive aspect is the possibility to optimize passenger flows by introducing new technologies, such as biometrics. Consequently, EES will change the flows on an airport, cruise terminal, train station, etc. The distribution of passenger type (Visa holder, Visa exempt, experienced traveller, etc.) has a substantial effect on the assets needed to control the border. Besides EES, border control and security will also be impacted by social distancing and health checks. Therefore, all passenger flows need to be analyzed before a redesign and optimization of a passenger terminal can be considered.



Figure 2: Border Control with manual boxes and e-gates

## SIMULATION SOLUTIONS

Using software of InControl, ESS implementation plans can be tested and optimized in a simulation model, to create a digital twin. Together with our software and customer experiences, insights can be presented by graphs, 2D- and 3D-models. Scenarios will be available to meet KPI's and to determine the required assets, including hardware, software and human resources. Clear results are presented to control changed passenger flows during preparation and operations. With our best of breed simulation software, Airport Operations is capable to determine which solution can mitigate organizational and operational issues.

### Insights gained by our software:

- Impact on passenger flow and experience
- Number of required kiosks, e-gates and manual booths
- Number of staff required
- Effect on KPI's, e.g. waiting time and passenger flow
- Impact on the staff schedule and times.

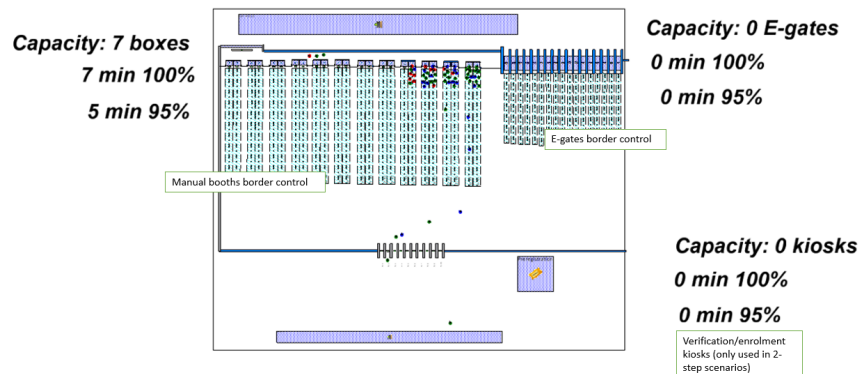


Figure 3: Example of a 2D simulation model to analyze fast the impact of EES-legislation

#### The contribution of our software is in short:

- Impact and What-If scenarios
- Analyze the impact of EES
- Visualization by graphs, 2D- and 3D-models
- Align stakeholder and speed up the design and decision process
- Contribution to business cases with technical, physical and economic aspects
- Optimize the passenger Experience
- Preparation and instruction of staff and passengers.

## TRACK RECORD INCONTROL

Our Simulation Software has been implemented to design and optimize Border Control, Security and passenger flows at large airports in e.g. The Netherlands, Australia and Belgium. In many cases our software has been part of the business case for seamless flow, providing an objective view on the impact of EES and align all stakeholders involved. For passenger flows our software is also valued at multi-modal traffic hubs, during major events and in stadiums and arenas. The combined knowledge and expertise of our simulation software has contributed to efficient and safe operations.

#### For more information please:

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