



“Future Scenarios for Border Control Processes”

WIBC, Uppsala

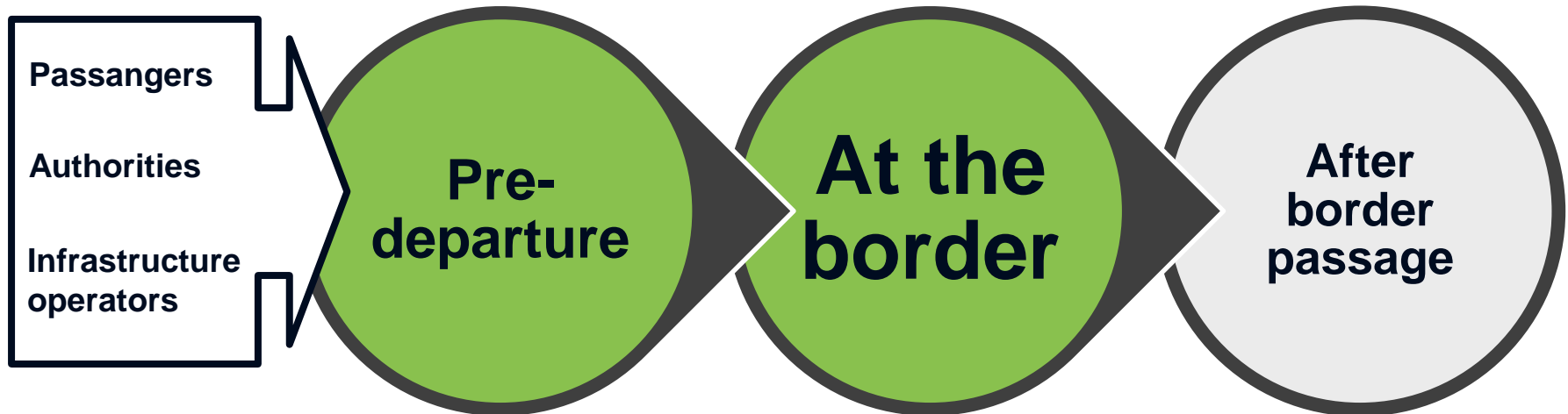
14.8.2013

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VTT Technical Research Centre of Finland

Markus Clabian;
AIT Austrian Institute of Technology

NEW BORDER CONTROL PROCESS 2030

AIR / LAND / SEA



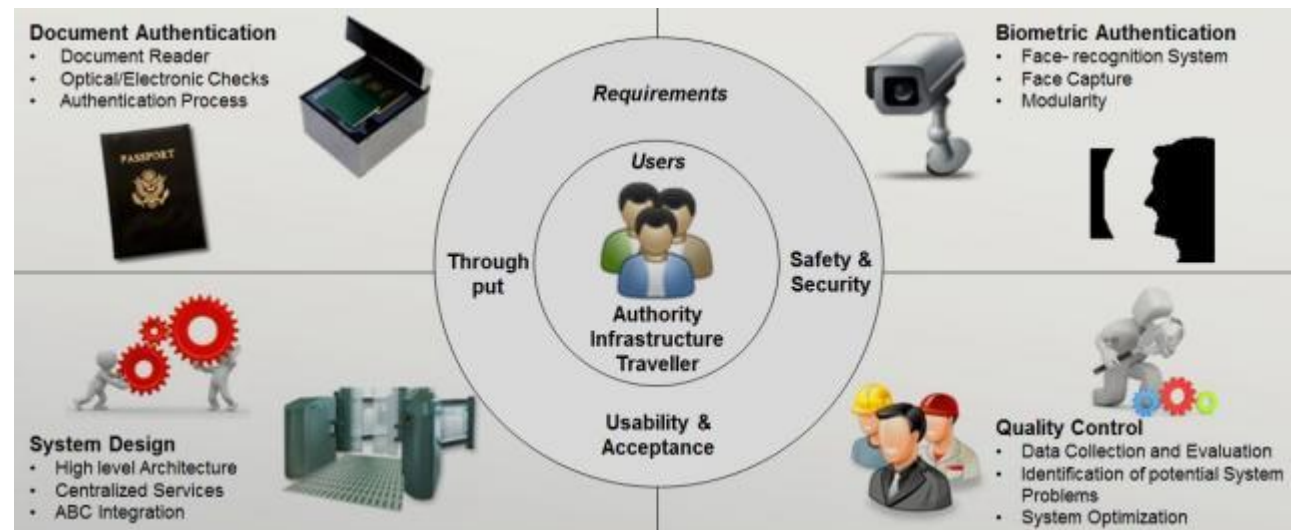
Objectives of the innovation session

- The session will brainstorm and innovate on possible new options for **future border control processes** in different border crossing types
 - air
 - land
 - sea.
- The goal is to innovate ways to make the border crossing **more efficient, fast and secure** for all stakeholders - travellers, border authorities and other stakeholders such as infrastructure providers and carriers
- The session will create scenarios on how border control can reconcile future requirements
 - more passengers,
 - fewer border guards,
 - higher risks,
 - increased expectations from customers and infrastructure operators,
 - reduced resources,
 - more responsibility to prevent harm.
- Future scenarios will include new processes, technological advances, improvements in performance (e.g. in biometrics), legislation and operational conditions

FastPass Project - A harmonized, modular reference system for all European automatic border crossing points

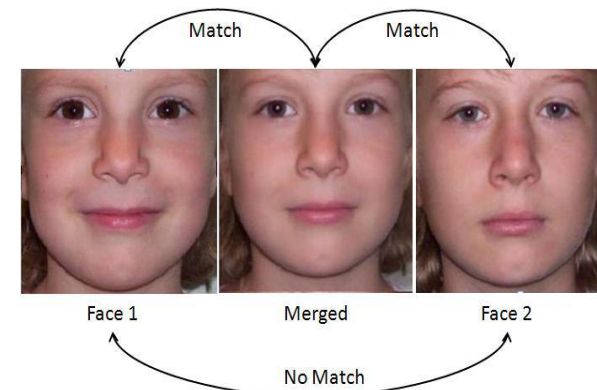
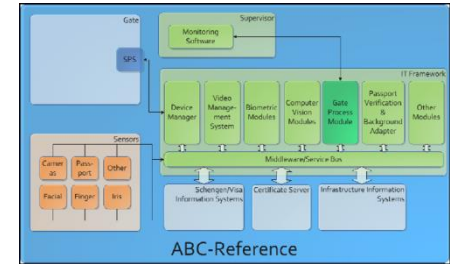
- Project start: 1.1.2013
- Project duration: 4 years
- Funding: EU FP-7 Security
- Coordinator: AIT Austrian Institute of Technology
- Consortium: 27 partners (3 border authorities, 4 infrastructure operators, 11 industry partners, 5 applied research centers, 4 universities)

Key element:
End-users at the center of innovation



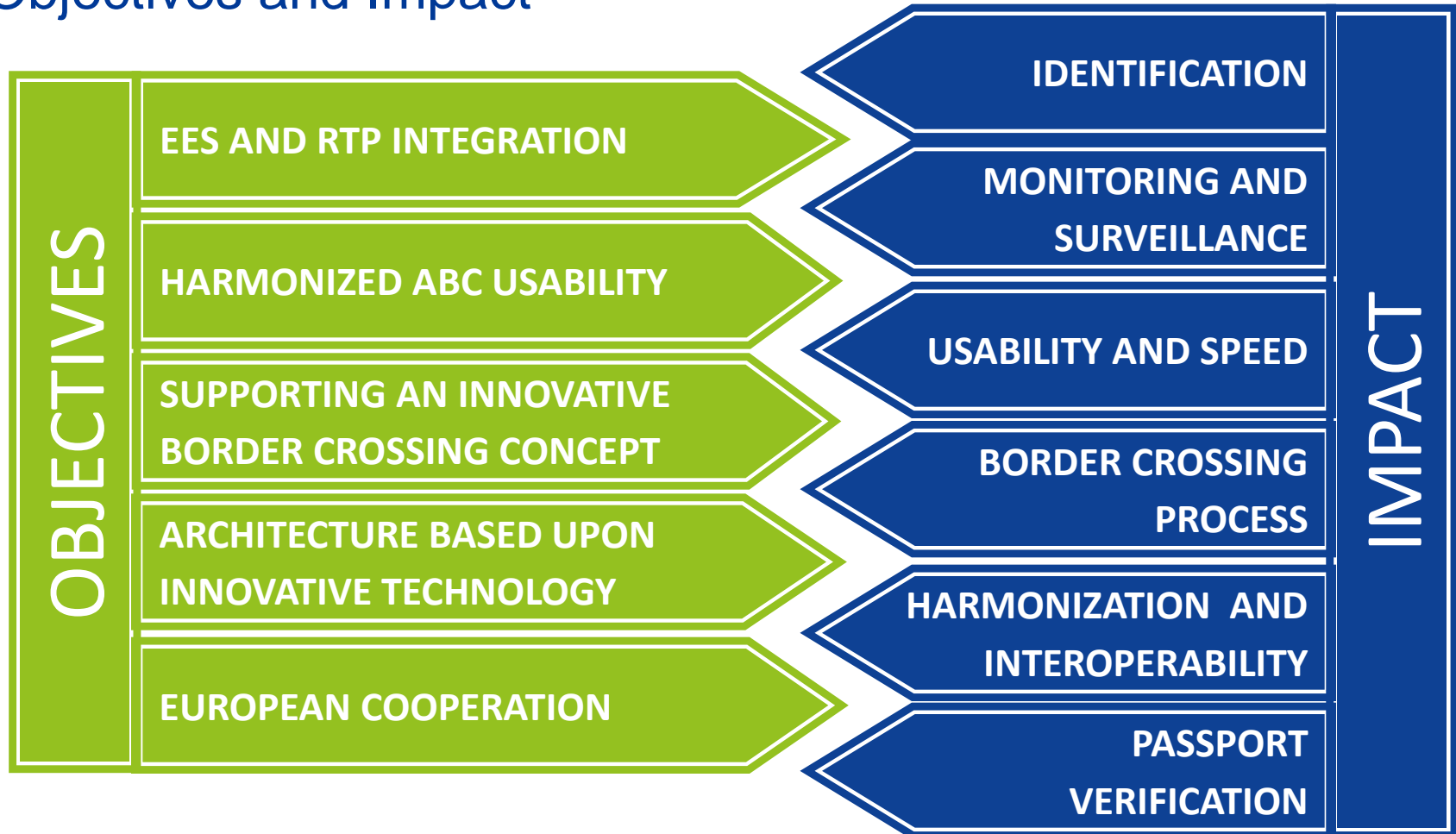
Why do we need research on ABC ?

- **Current systems are limited**
 - No usage by third country nationals
 - No usage by frequent travellers
 - No harmonization and no interoperability
 - No or weak integration into infrastructure processes
- **Current systems are not developed around the user**
 - No harmonized usage
 - No customer interaction and satisfaction management
 - Human factors are not analyzed and considered
 - Privacy issues are not properly addressed
- **Current systems have not been security evaluated**
 - Passport security features are only partially checked
 - Biometric spoofing is not fully addressed
 - Passport document lifecycle is not fully addressed



FastPass

Objectives and Impact



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Schedule

- 14.8.2013, room 6140
 - 14:30
 - Short introduction to the session – division of the people to groups
 - 14:45
 - Innovation of new processes and technologies
 - Circulation between group works – comments and new ideas
 - Returning to the initial tables
 - Presenting the group results
 - 16:00
 - Coffee in between working
 - 18:30
 - End of the session

GROUPING

- Take a pair and find another pair, look for mixed background
- Three Border hosts:
 - **Air**: Markus Clabian
 - **Sea**: Sirra Toivonen
 - **Land**: Laura Salmela
- Check in with one of the hosts to receive "innovation table" (pens, papers, note tags and innovation template).

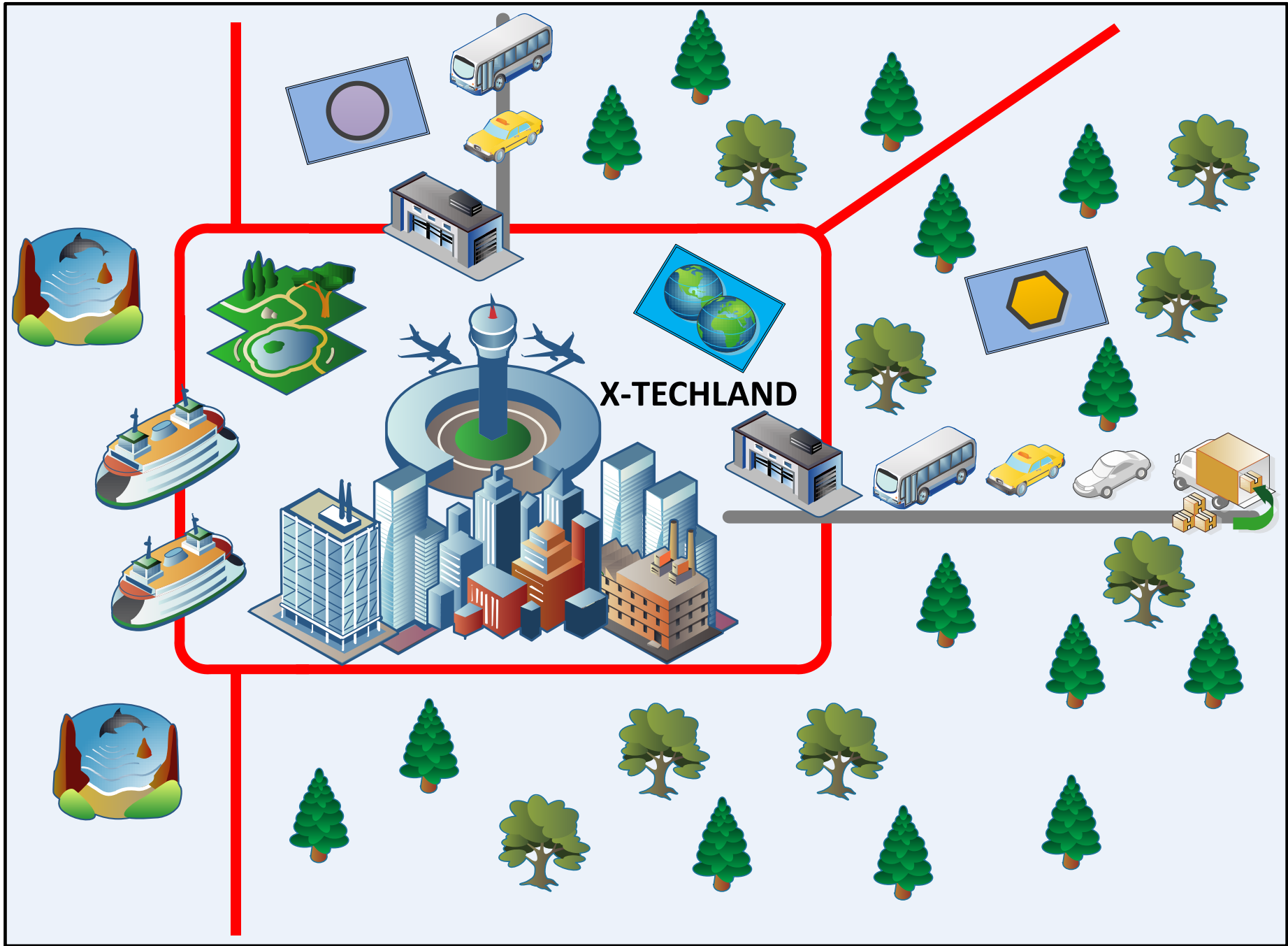
NEEDS

- See the opportunity –

Let your imagination fly, present your wildest ideas of future border control systems!

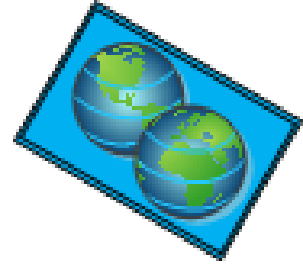
- No limitations, no restrictions, only great ideas –

Cross the comfort line!



X-TECHLAND

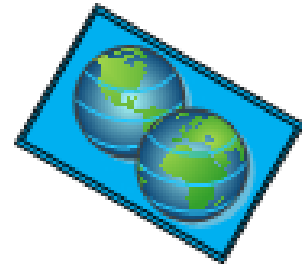
2030: X-TECHLAND



- **Sovereign state:**
 - Jan 2029 independence through peaceful secession from a federal entity
- **Prior independence:**
 - Autonomous institutional structures for self-governance with the exception of security authorities
- **Current state of play:**
 - Establishment of the National Border Force, its responsibilities and tasks
 - Establishment of border control requirements and processes for air, land and sea borders
- **Economic structures:**
 - Prosperous industrial sector
 - Wealthy state budget
- **Purpose and means of travel:**
 - Land borders: business, tourism (motor vehicles, trailers)
 - Air borders: business, transit, tourism
 - Sea borders: business, tourism (cruise vessels, ferries, pleasure boats)
- **Needs:**
 - Managing passenger flows with innovative technologies
 - Fast and fluent border crossings
 - Secure borders against cross-border crime, irregular migration and terrorism

IDEA TENDER:

BORDER CONTROL for X-TECHLAND

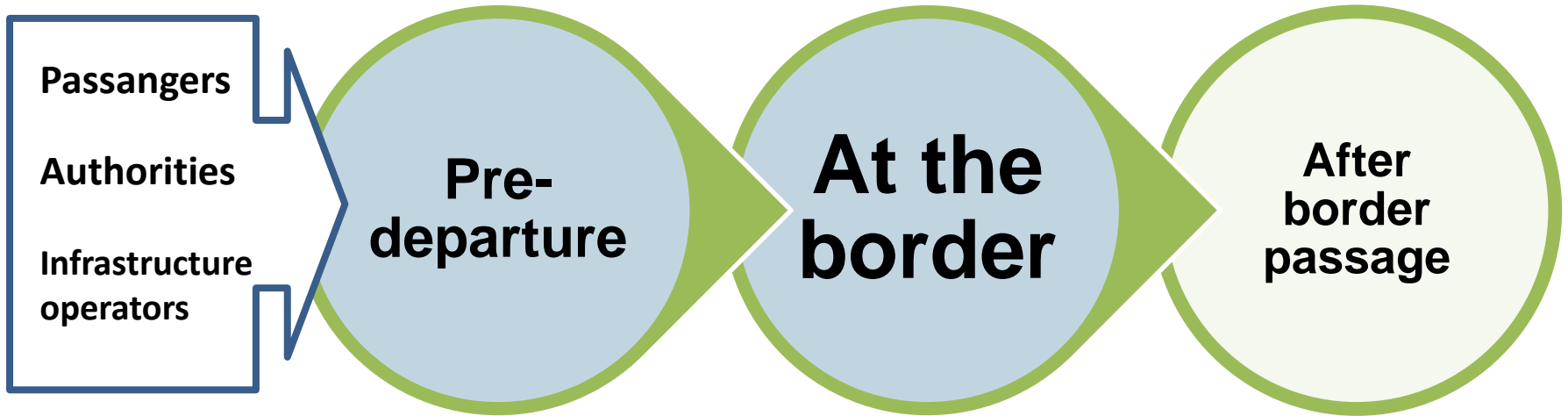


- **Innovate** fast, fluent and secure future border control process for
 - Land border
 - Air border
 - Sea border
 - No limitations with regards to the use of technology, financial reserves, legislation, infrastructure
- **Describe** the leading idea of the process and the process flow
- **Consider** the process through the eyes of different stakeholders



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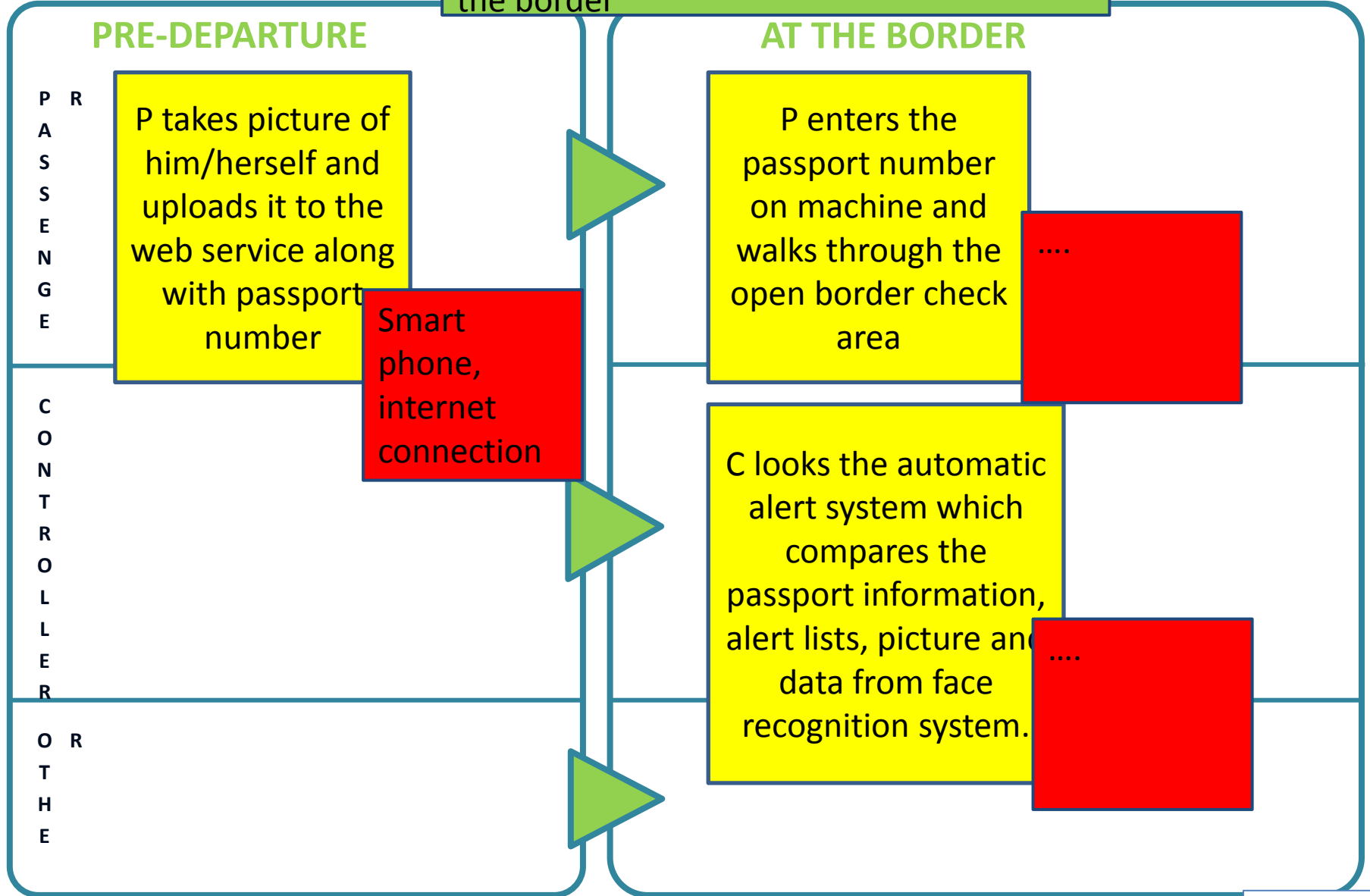


PROCESS FOR LAND BORDER

Background of the idea:

No need of checking / carrying passport on the border

 = process
 = enabling technology



Results

- The results will be handled anonymously
- The results will be sent to the participants of the session
 - Please leave your email address to the participant list
 - Names of the participants are not reported
- The results will also be reported in the FastPass deliverable T3.1 (restricted report)
- The summary of the session will be ready in the week 37