



FastPass – Project Overview

RPC Conference
Darmstadt

Presented by Markus Clabian (Coordinator)

Overview

- **Motivation and Objectives**
 - Overall objectives
- **Innovation Approach**
 - Combination of heuristic and deterministic approaches
- **Work Package Structure and Status**
- **Timeline and Results**
 - Scientific view
- **Current Status and Messages**

Motivation

Challenges :

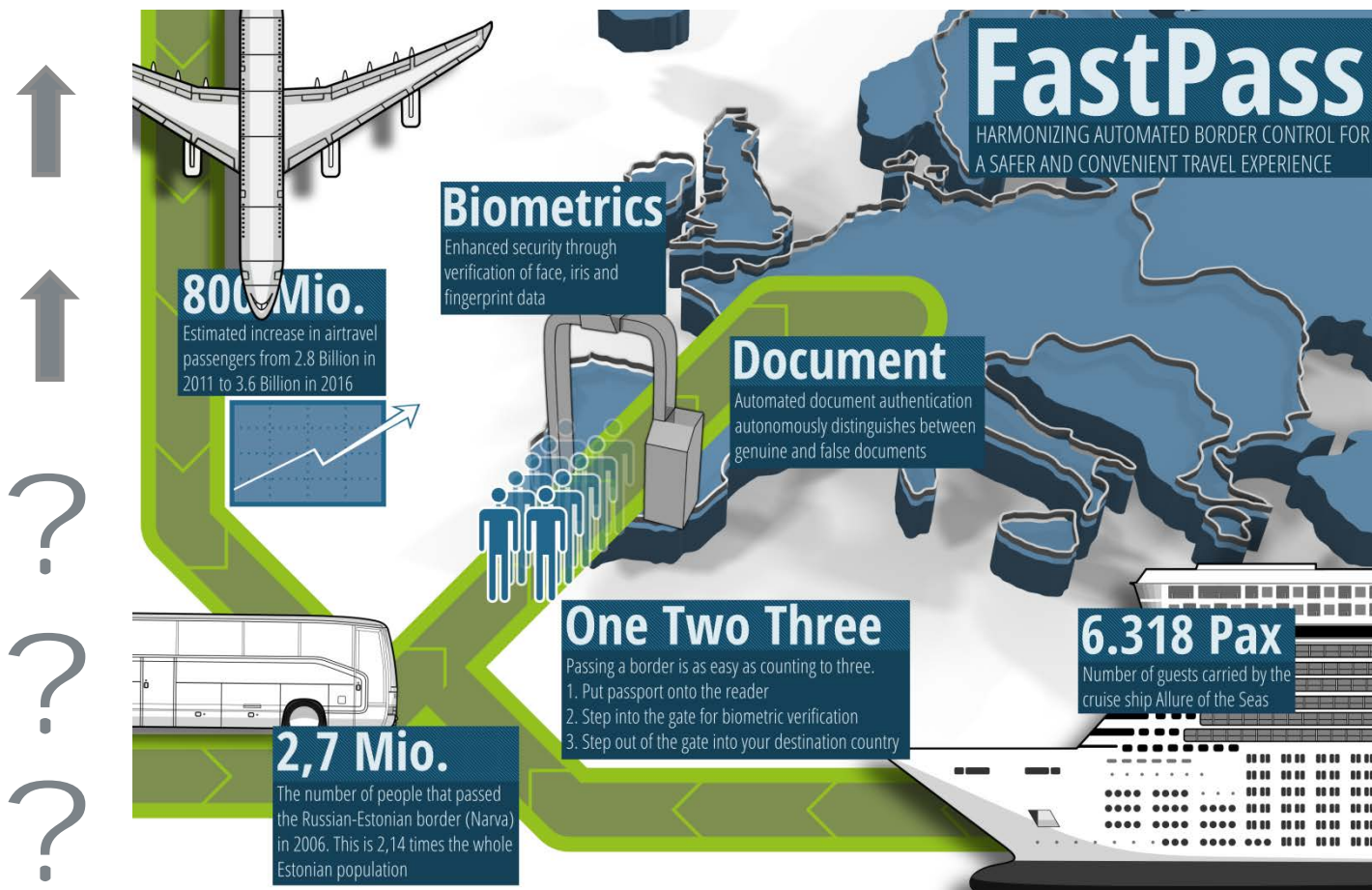
Passenger flow

Requirements on
the border control
process

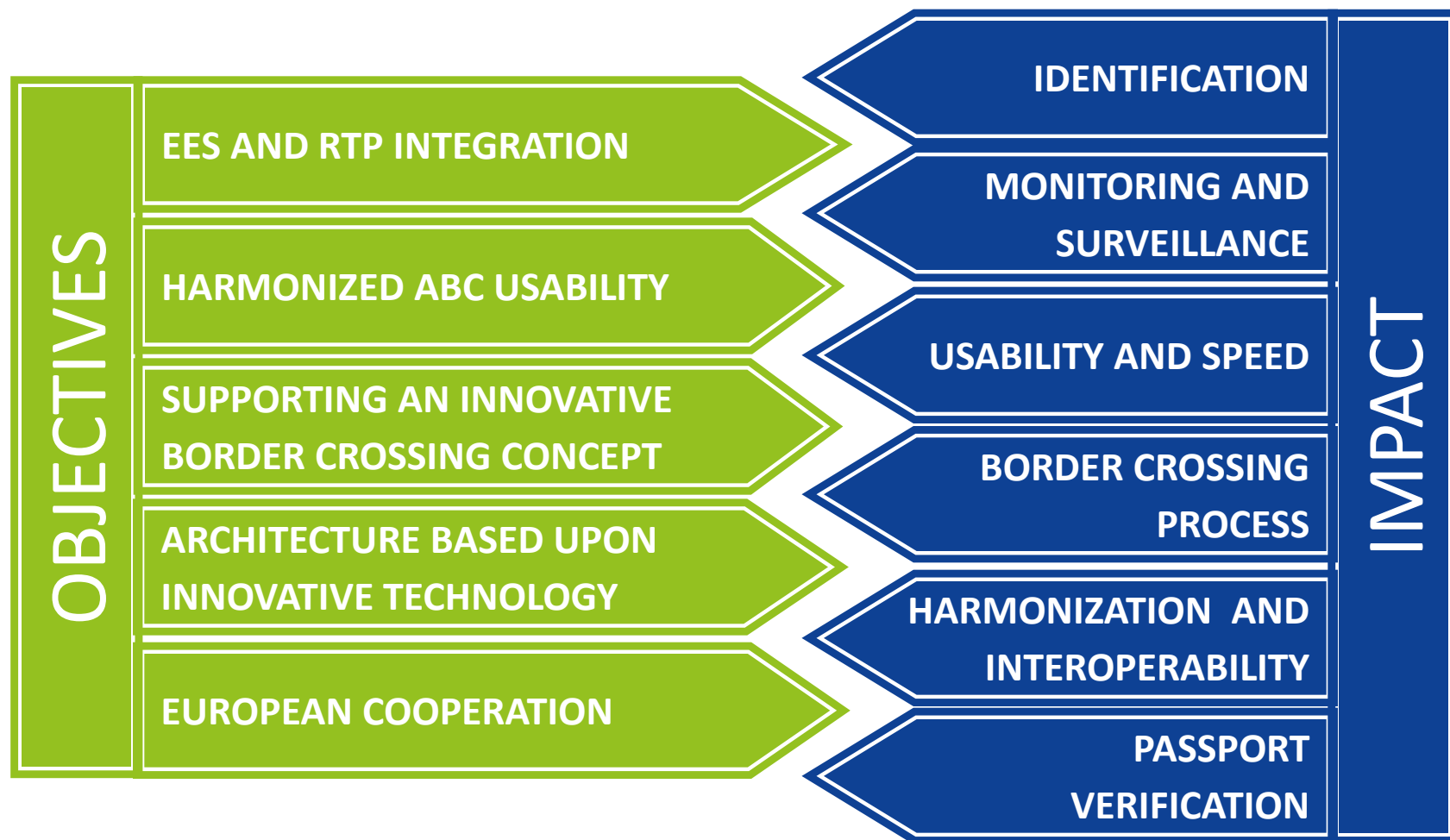
System risk
assessment

Harmonization

Variety in usage



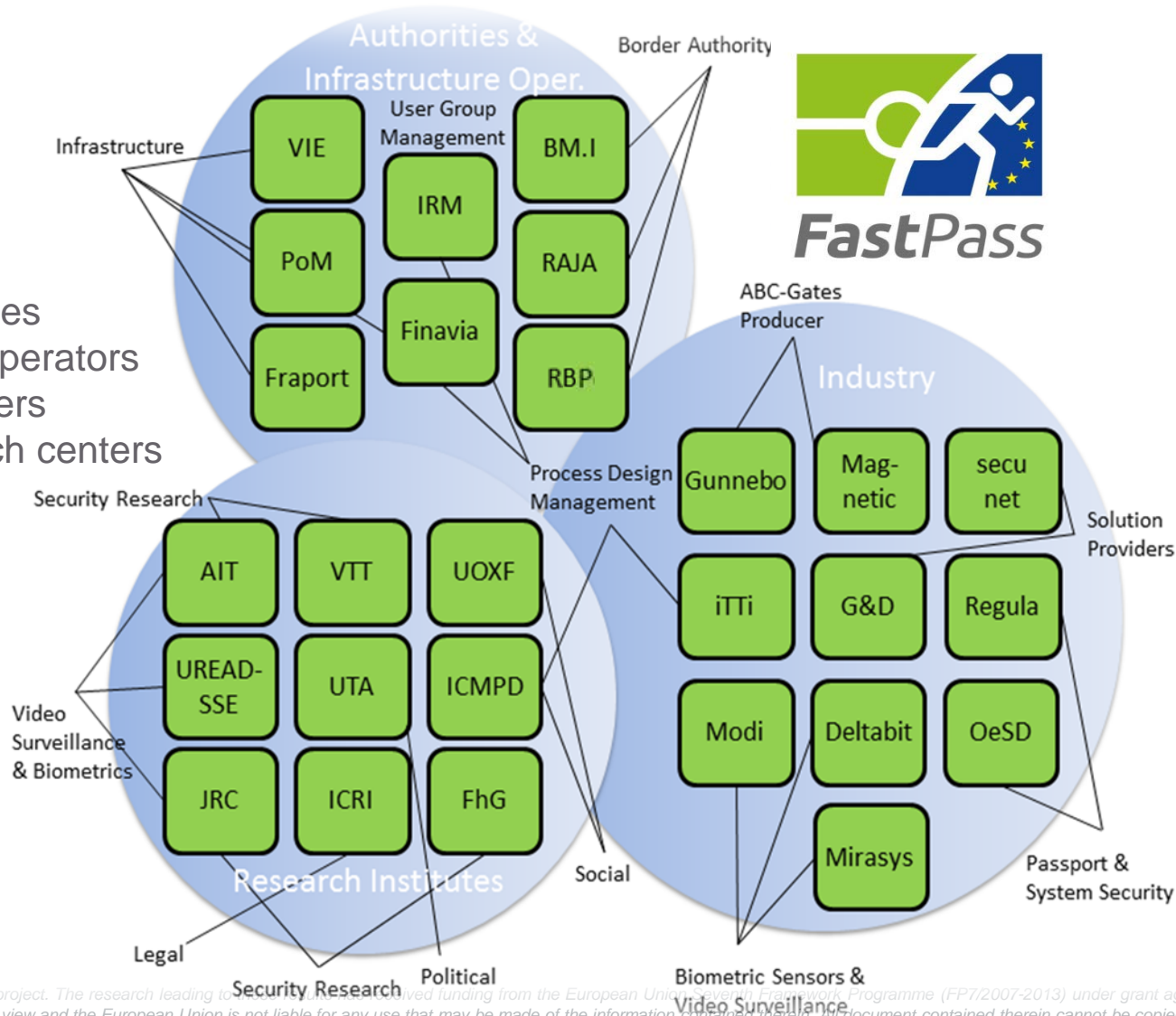
FastPass Objectives



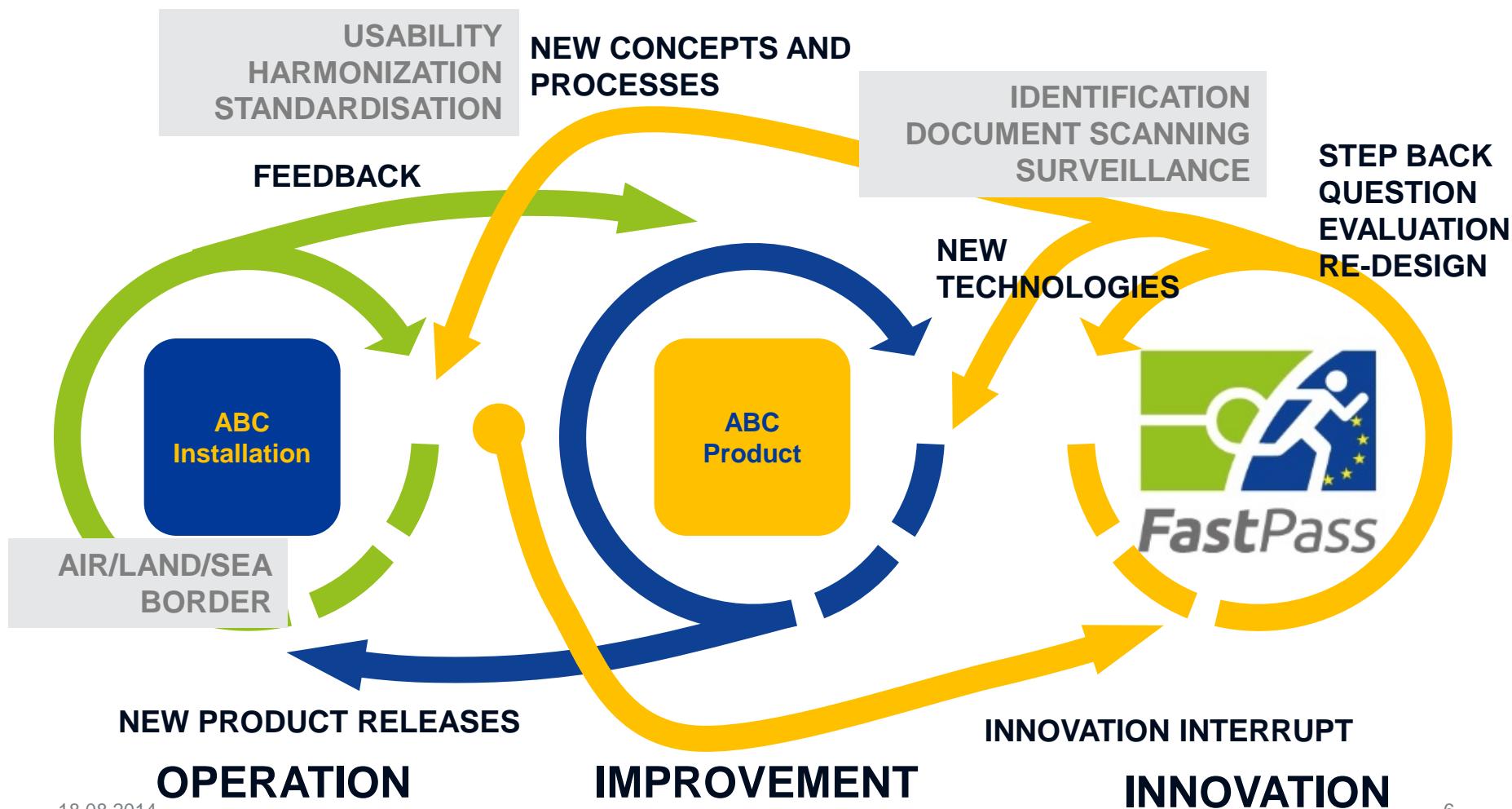
FastPass - Consortium

27 partners:

- 3 border authorities
- 4 infrastructure operators
- 11 industry partners
- 5 applied research centers
- 4 universities

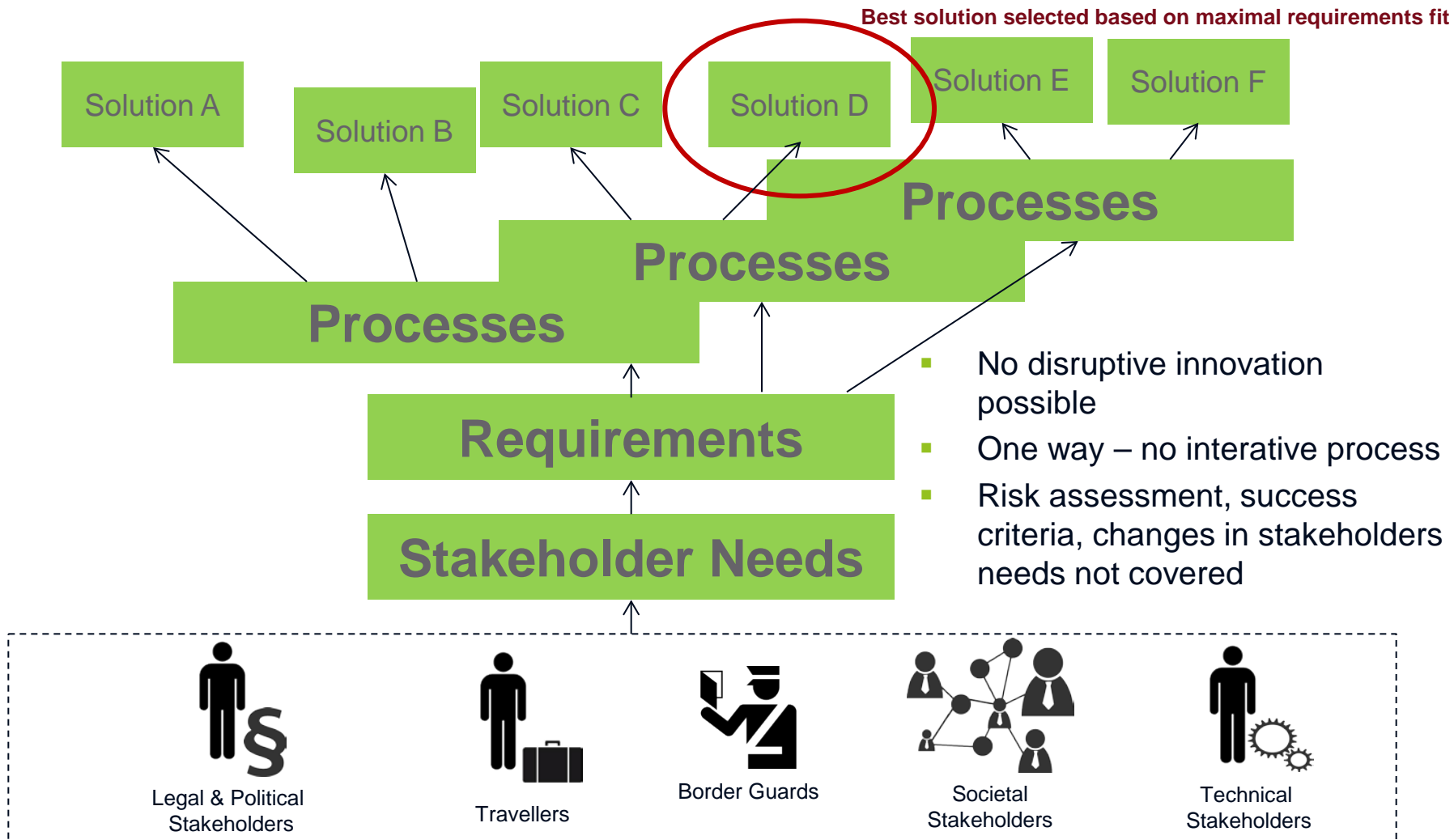


Science to solution – Expected outcome

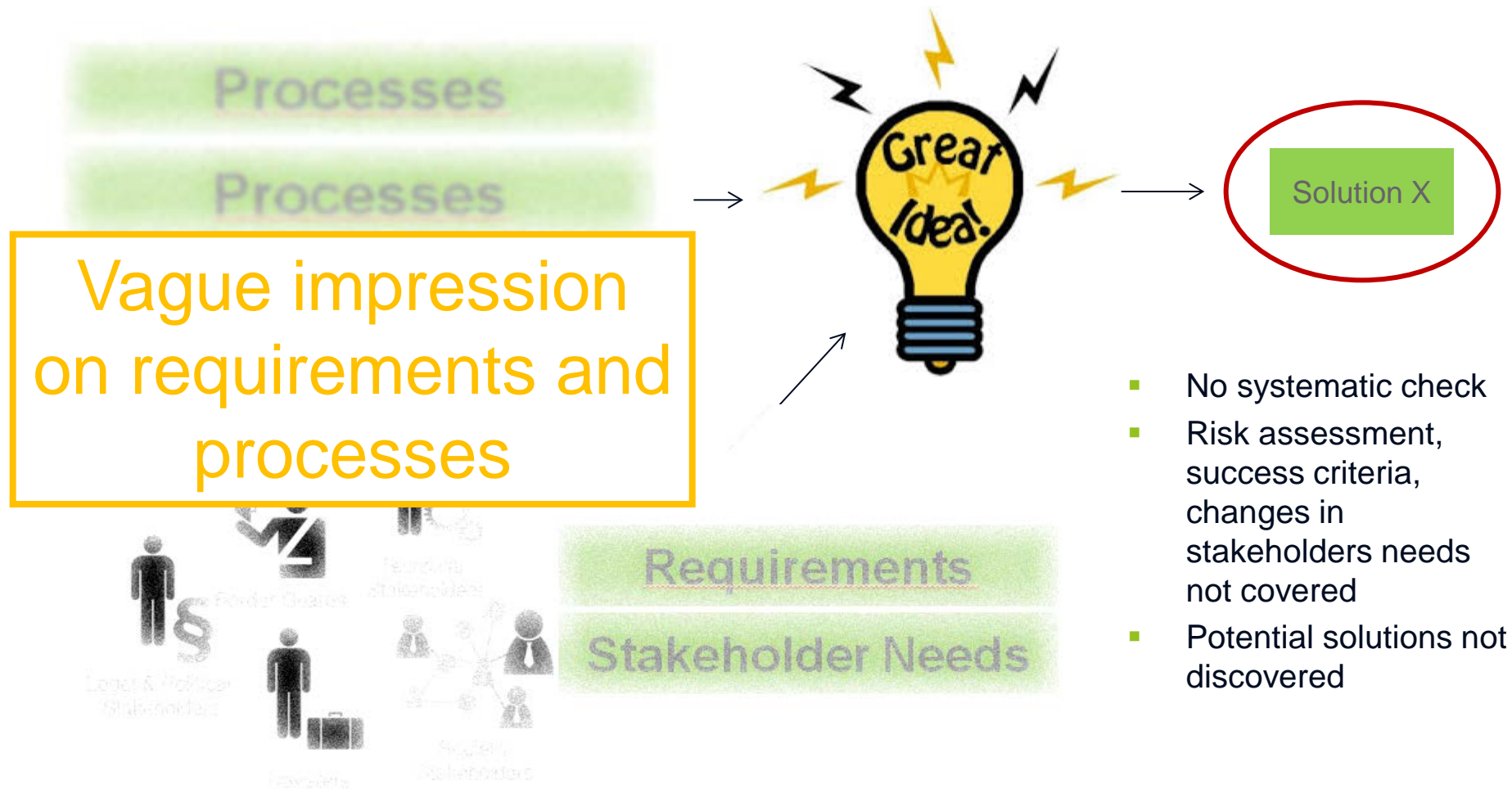


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Systematic approach to innovation



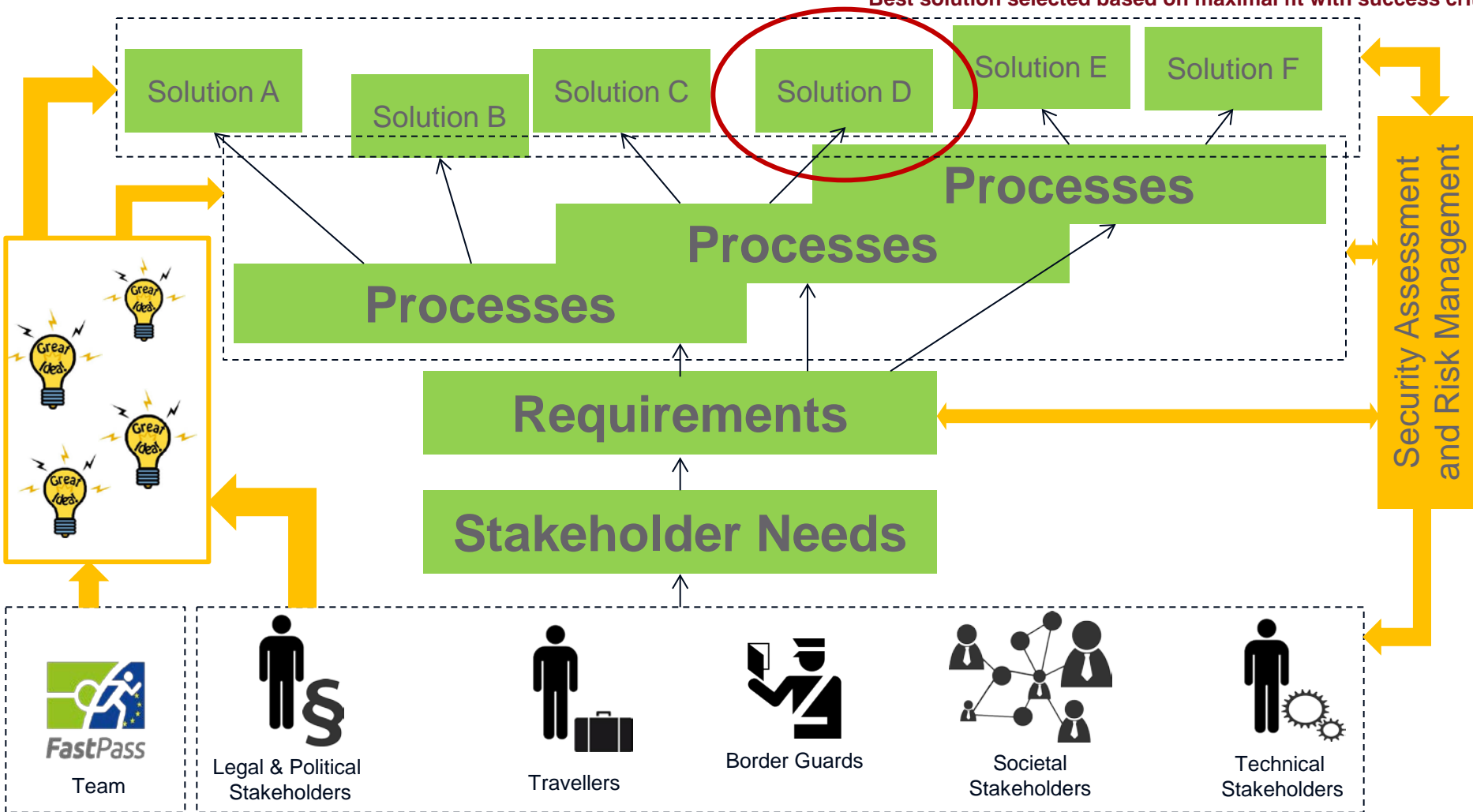
Heuristic approach to innovation



- No systematic check
- Risk assessment, success criteria, changes in stakeholders needs not covered
- Potential solutions not discovered

FastPass approach to innovation – heuristic AND systematic

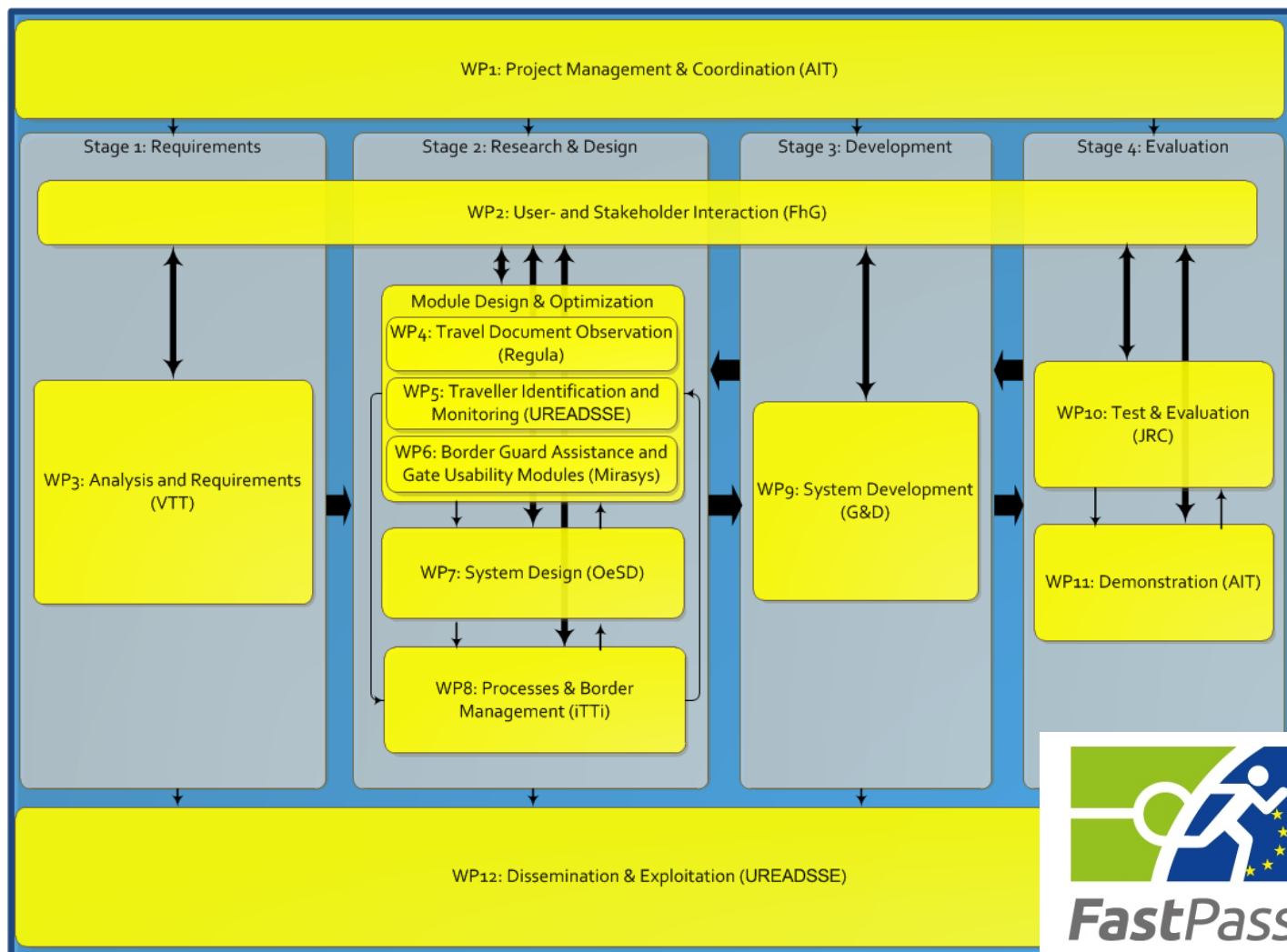
Best solution selected based on maximal fit with success criteria



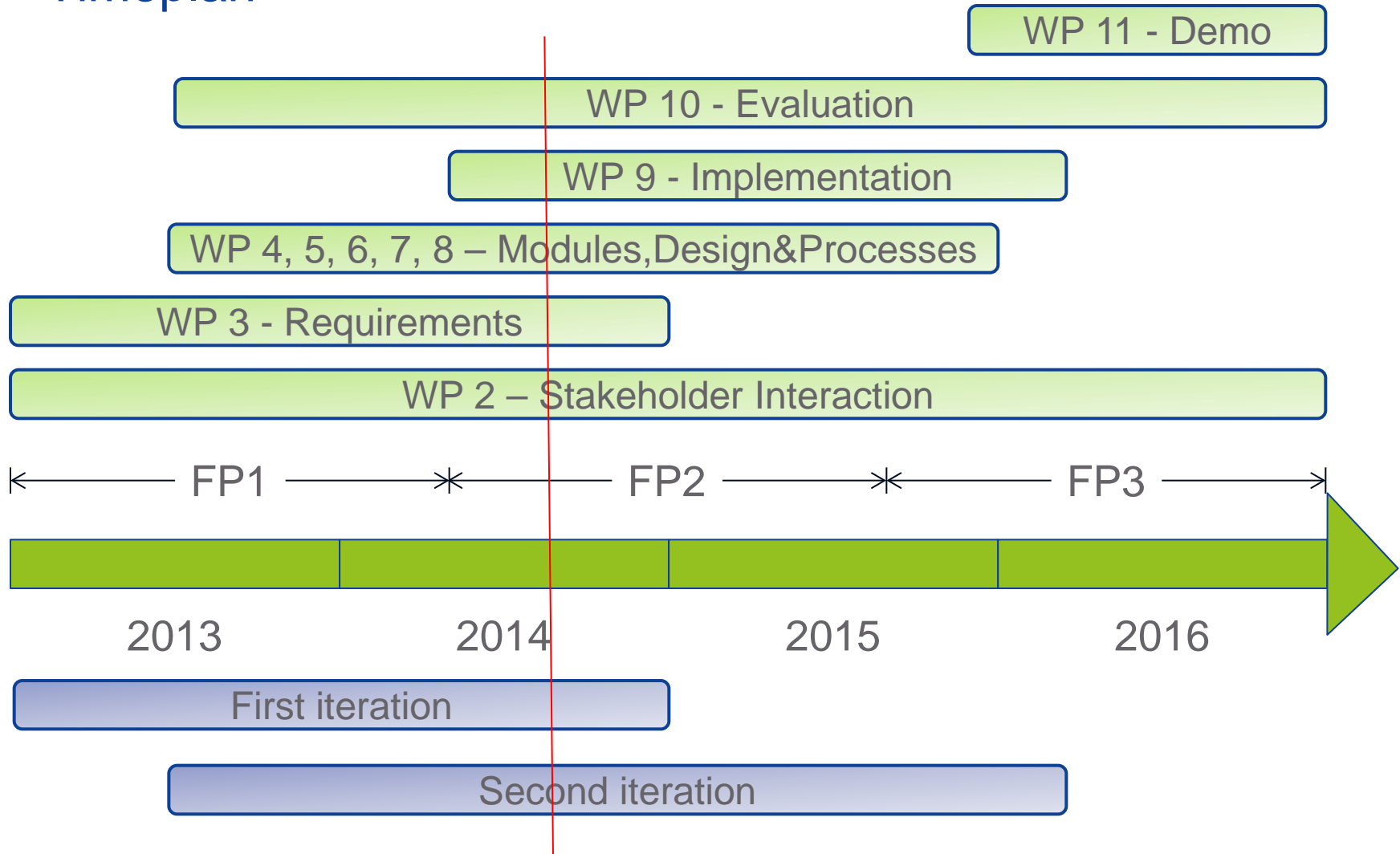
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Work package structure, deliverables and progress



Timeplan



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Timeplan Results

WP 10 – Evaluation

WP 9 – Implementa

WP 4, 5, 6, 7, 8 – Modules, Design & Processes

WP 3 – Requirements

WP 2 – Stakeholder Interaction

← FP1 *

2013

2014

Document attack analysis

Stakeholder needs

Face spoofing

Set-up of user groups

Face recognition „on the fly“

Scenario description

Set-up of communication infrastructure

First Border Guard Module

Process Analysis

Kickoff Meeting Vienna

Requirements

First Designs (SW and HW)

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FastPass in numbers



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Status Update (07/2014)

- FastPass welcomes new partner: Romanian Border Police and HBP as inhouse consultant of PoM
- Analysis of existing solutions, traveller- & border guard needs performed
 - Reveals new challenges to increase ABC usage
 - Requires new technologies to facilitate ABC usage
- Main requirements phase (based on analysis) finished
- New security technologies developed
 - Answering new attack scenarios in automated document checking
 - Face spoofing detection
 - Improved video-based tailgating/piggybacking detection
- New processes investigated
 - ABC solution for land borders scenarios
 - New solution for cruise ship scenarios
 - Exploring different approaches for airborder scenarios

FastPass – the system, that

■ **...is secure**

- Resistent
 - to latest attacks on document scanner,
 - to biometric spoofing
- Risk Assessment, Security Assessed by dedicated methodology

■ **...you like**

- UI developed with extensive feedback from different European border guards
- Process and procedures developed with extensive evaluation from traveller groups
- Respects privacy and data protection (Data protection impact assessment – DPIA)

■ **...is harmonized – and shows new processes and scenarios**

- ONE reference architecture serving many processes
- First European solution for cars at land border with ABC
- First solution for cruise ships
- Real comparison of different approaches