



TRESSPASS @ FLYSEC Final event

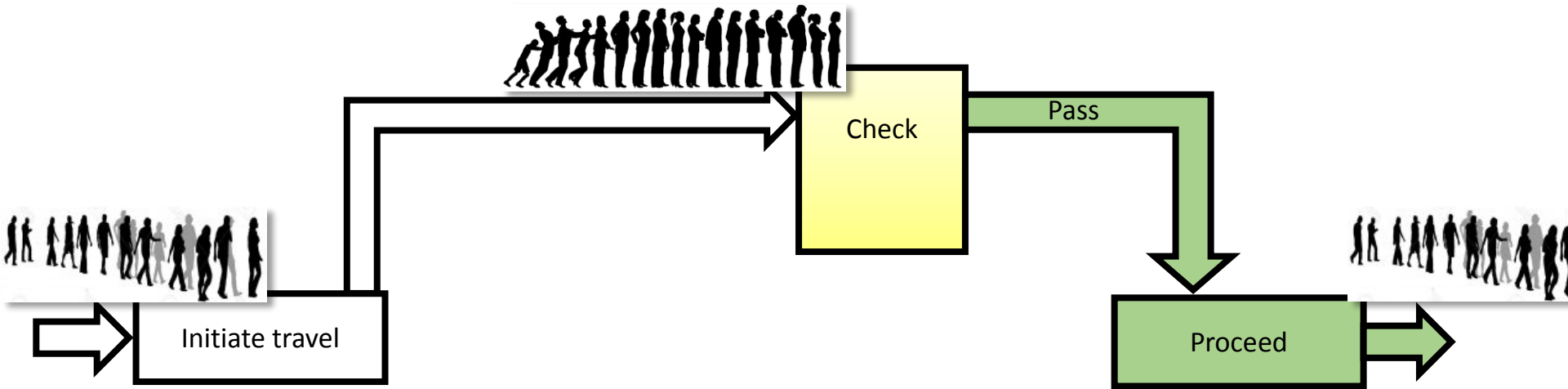
TRESSPASS

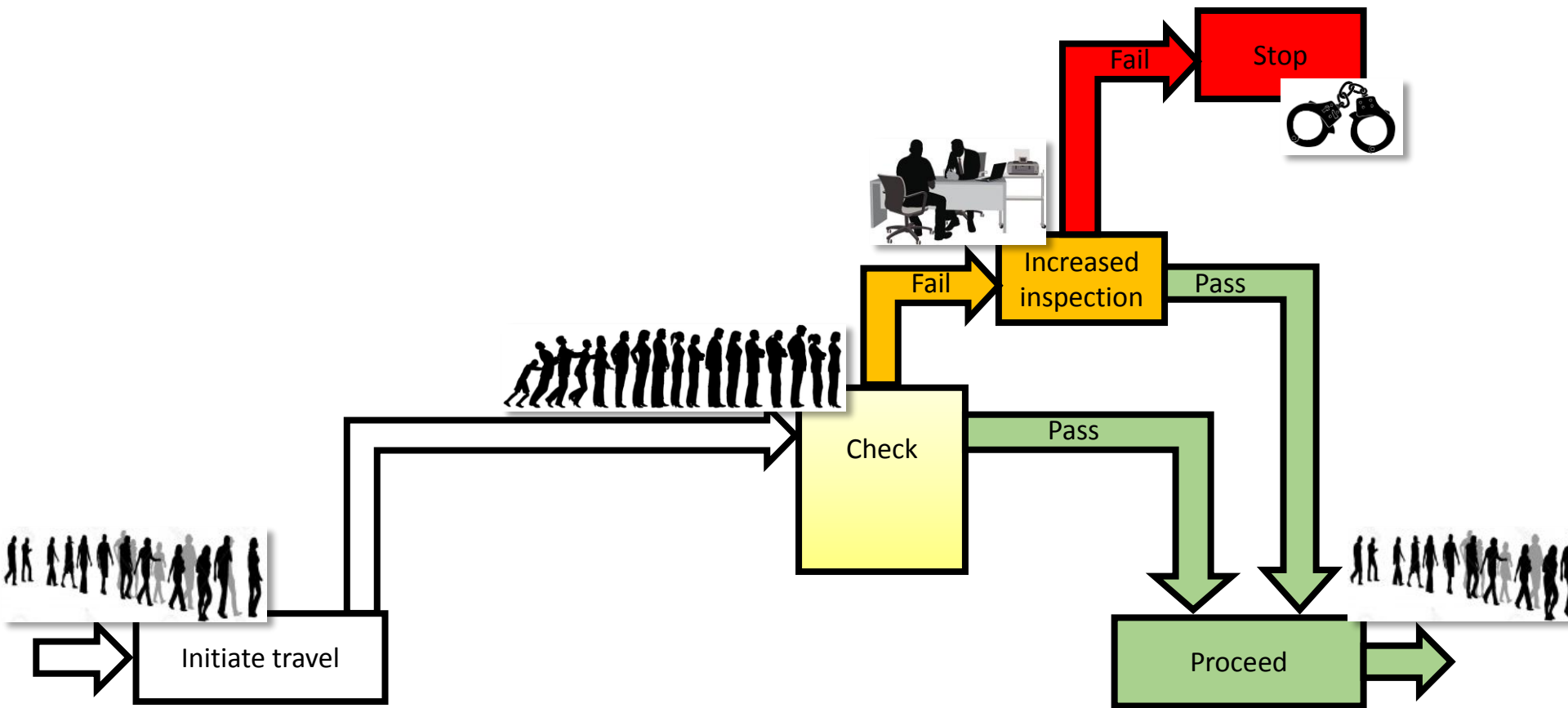
Jeroen van Rest

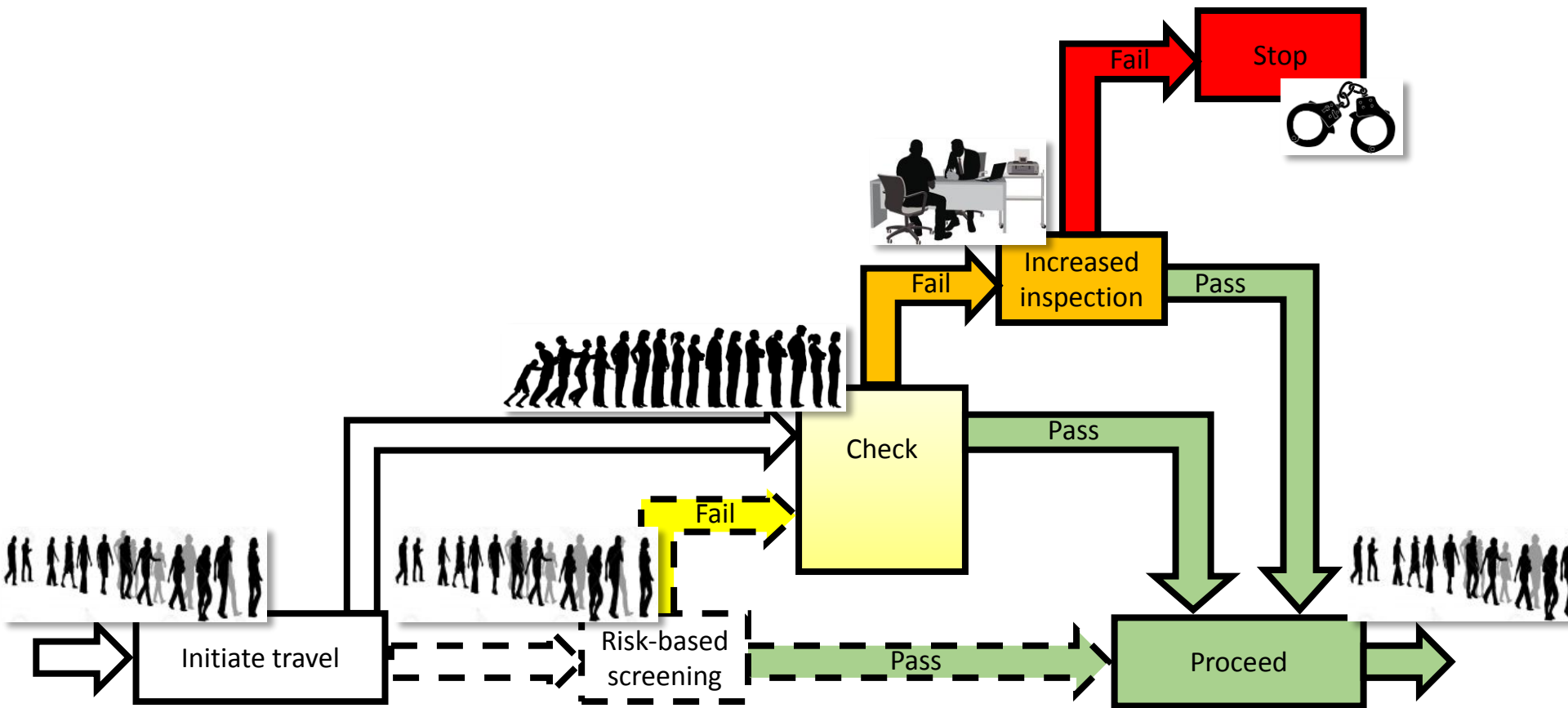


This project is funded in the context of the European research project TRESSPASS
ROBUST RISK BASED SCREENING AND ALERT SYSTEM FOR PASSENGERS AND LUGGAGE
Grant Agreement no. 787120 under the Horizon 2020 programme Secure Societies : Security







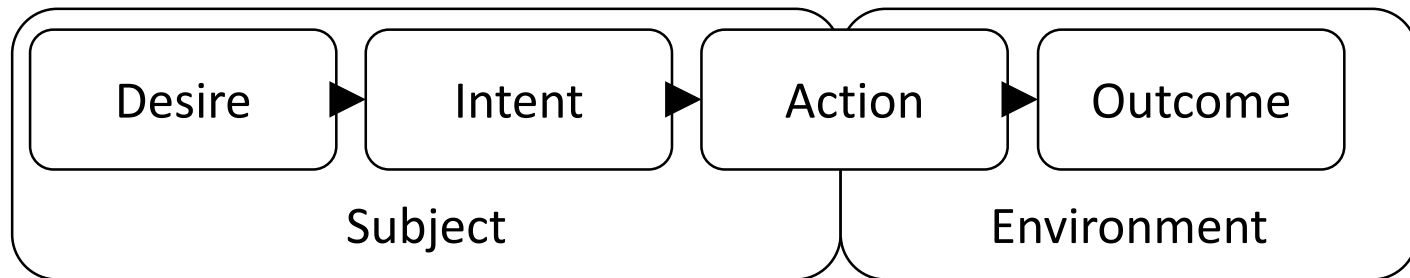


Different threat definitions

- The generic threat;
- The design of the basis threat (DBT) as authorised by security organisations (the focus of this subsection);
- The assessment that is made by a border guard (or automated system) of a concrete passenger (group).
- The concrete threat posed by a particular situation (a passenger as part of his travel group).



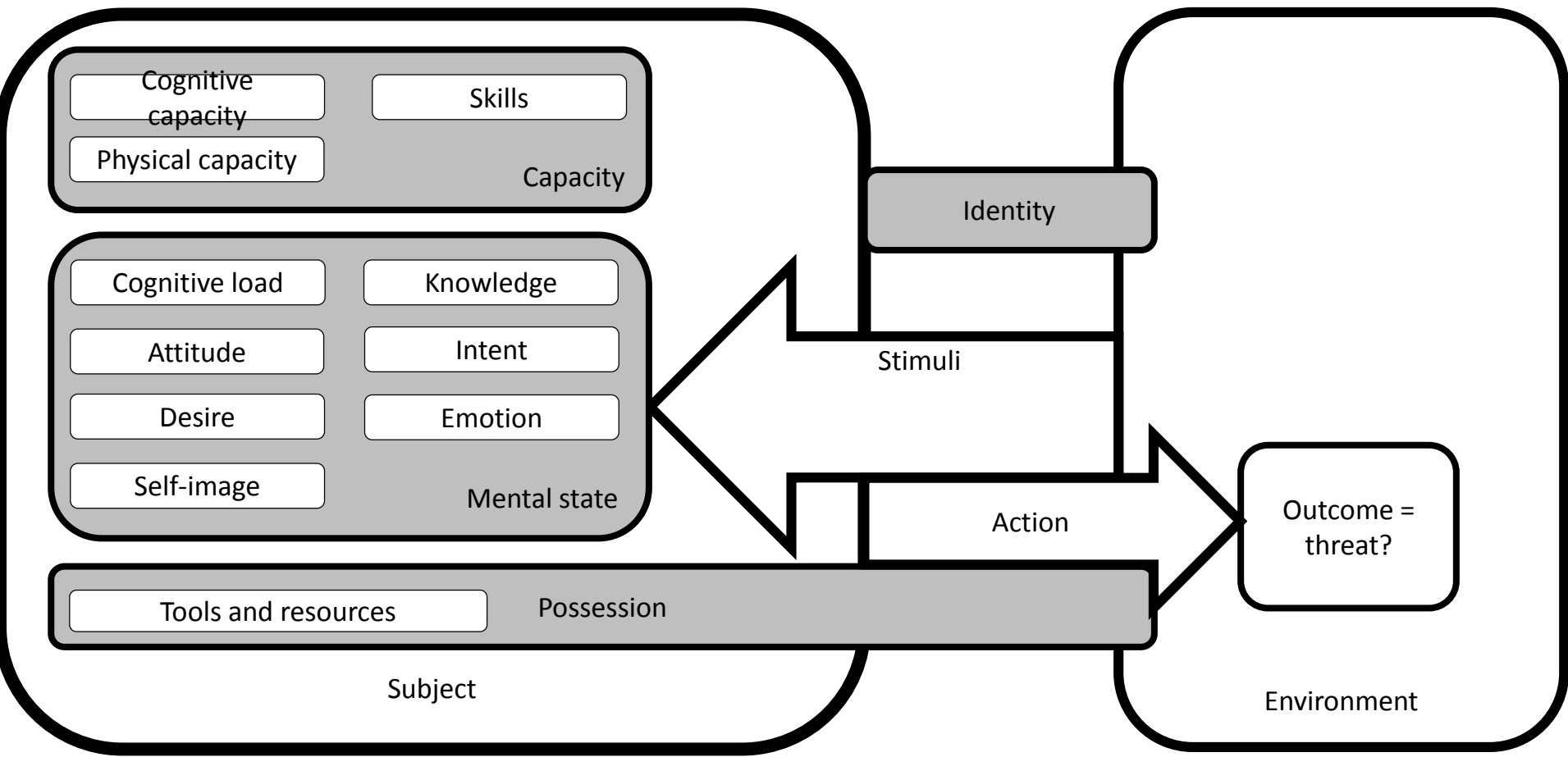
Intentional chain



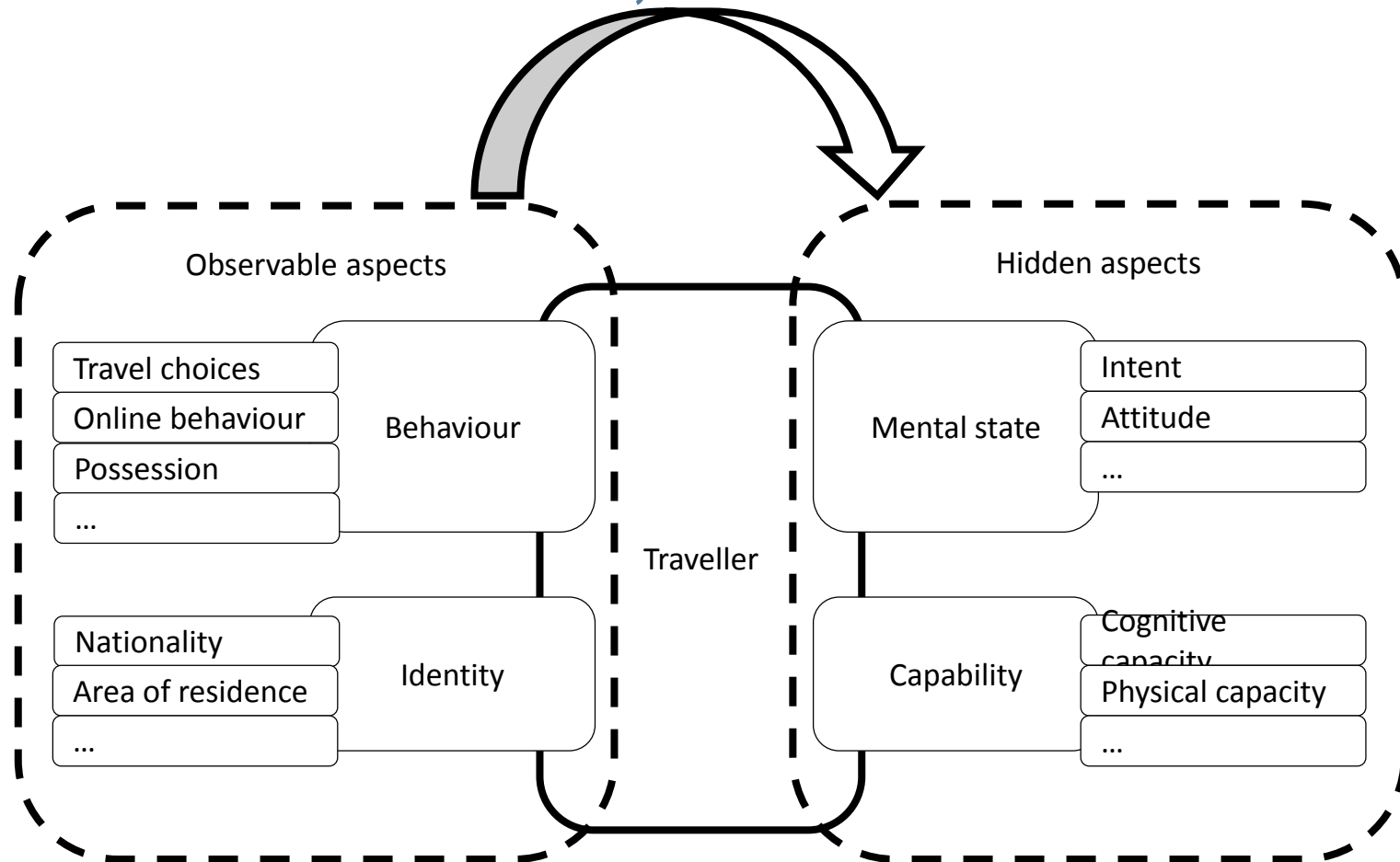
“Intent”

- The relation between self-image, attitude, belief, desire, intent and other psychological constructs is much more complex.
- As a psychological construct, intent is -for now- not a directly observable quantity.
 - profiling
- Intent and its related concepts are still very much subject to active research.
- The ethical and legal frameworks regarding the assessment and use of intent, and related methods (e.g. profiling) and technologies (e.g. behavioural analytics) are not mature.



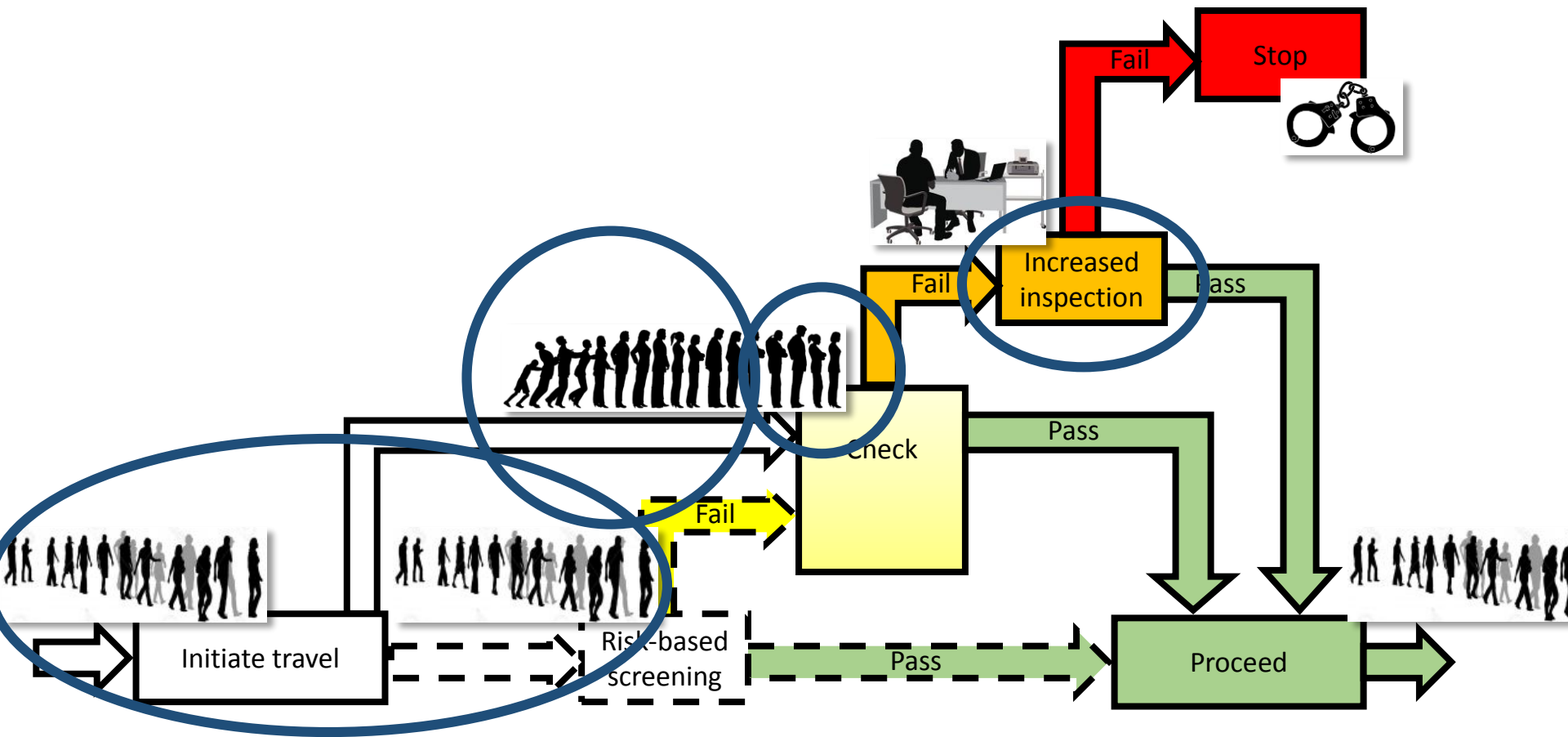


Preliminary reference model



Person			Data pipeline			Threat				
Person is (body)	Person behaves		Data source	Data processing (if distinctive)	Maturity at EU borders	Intent	Capability	Possession	Identity	Travel group
	Person acts	Person carries								
Biometrics for identification		Identity documents	Passport		9				X	
			Identity card		9				X	
			Face	Fixed	9	o			X	
				On the move	6	o			X	
			Iris	Fixed	9	o			X	
				On the move	5	o			X	
			Fingerprint		9	o			X	
				Palm vein		8	o			X
Soft biometrics		CCTV	appearance (A.K.A. suspect search)	8	o	o				
			walking pattern	4	o	o				
Booking		API		9	X					
			PNR		9	X				X
		ICT device	Laptop / tablet / phone / wearable		8					
Physical behaviour near border control point			Interview	trained professional	9	X	X	o	o	o
			Interview	analytics	6	X	X	o	o	o
			CCTV	trained professional	9	X	X	o		o
			CCTV	analytics	6	X	X	o		o
Online behaviour			Social media		9	X	X	o		o
			Online presence		9	X	X	o		o
		Handheld luggage	Bagage screening system		9	X	o	X		
			Security scanner		9	X		X		
		On body items	Cargo scanner		9	X	o	X		
			Cargo scanner		9	X	o	X		
Temperature			I/R		8	o	o	X		
Various underlying aspects			Closed source intelligence		9	X	X	o	o	o

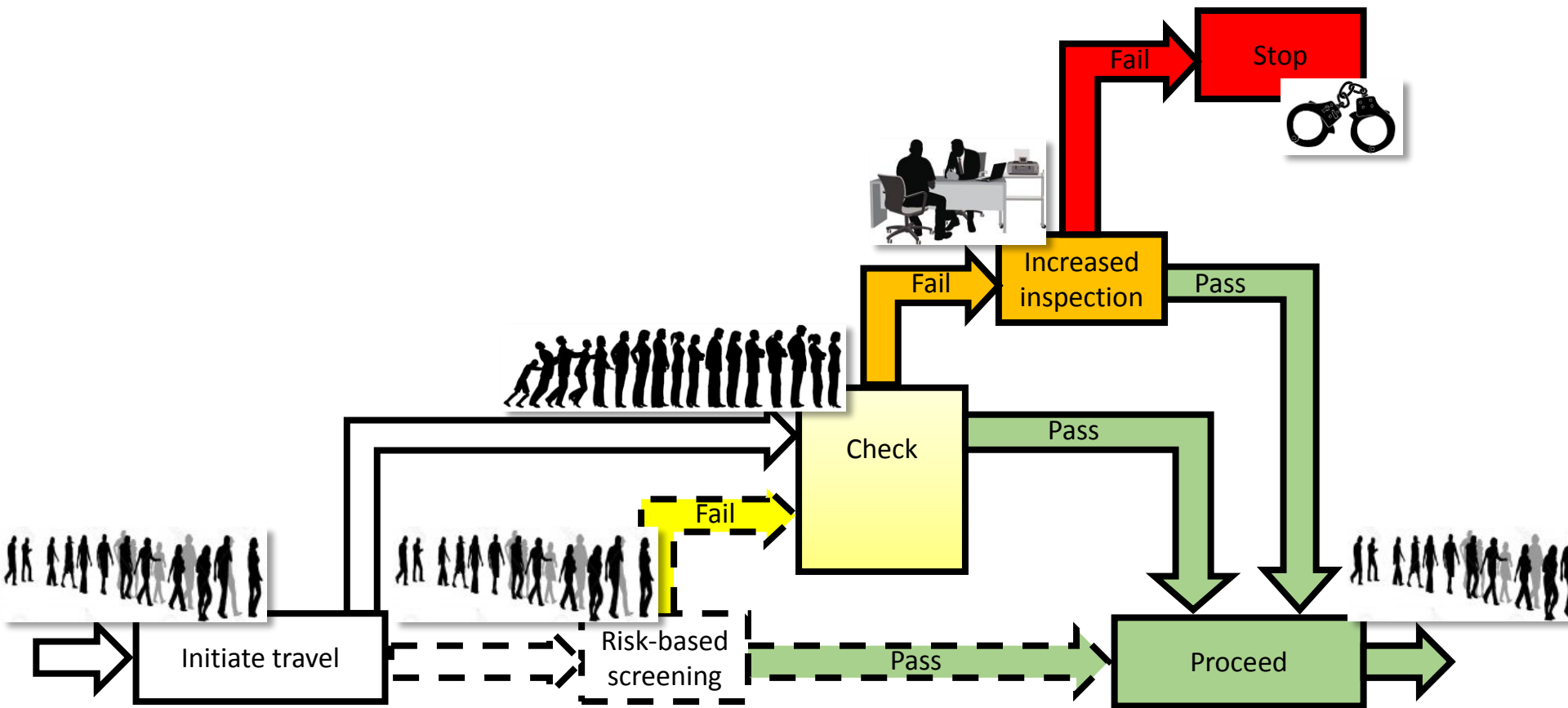
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Trust in BCPs

- The alfa and omega of TRESSPASS
- Trust framework
 - How can we use this to our advantage?
 - How is it affected by what we are doing?
- Deterrence
 - Essential
 - But tension with liberty / privacy

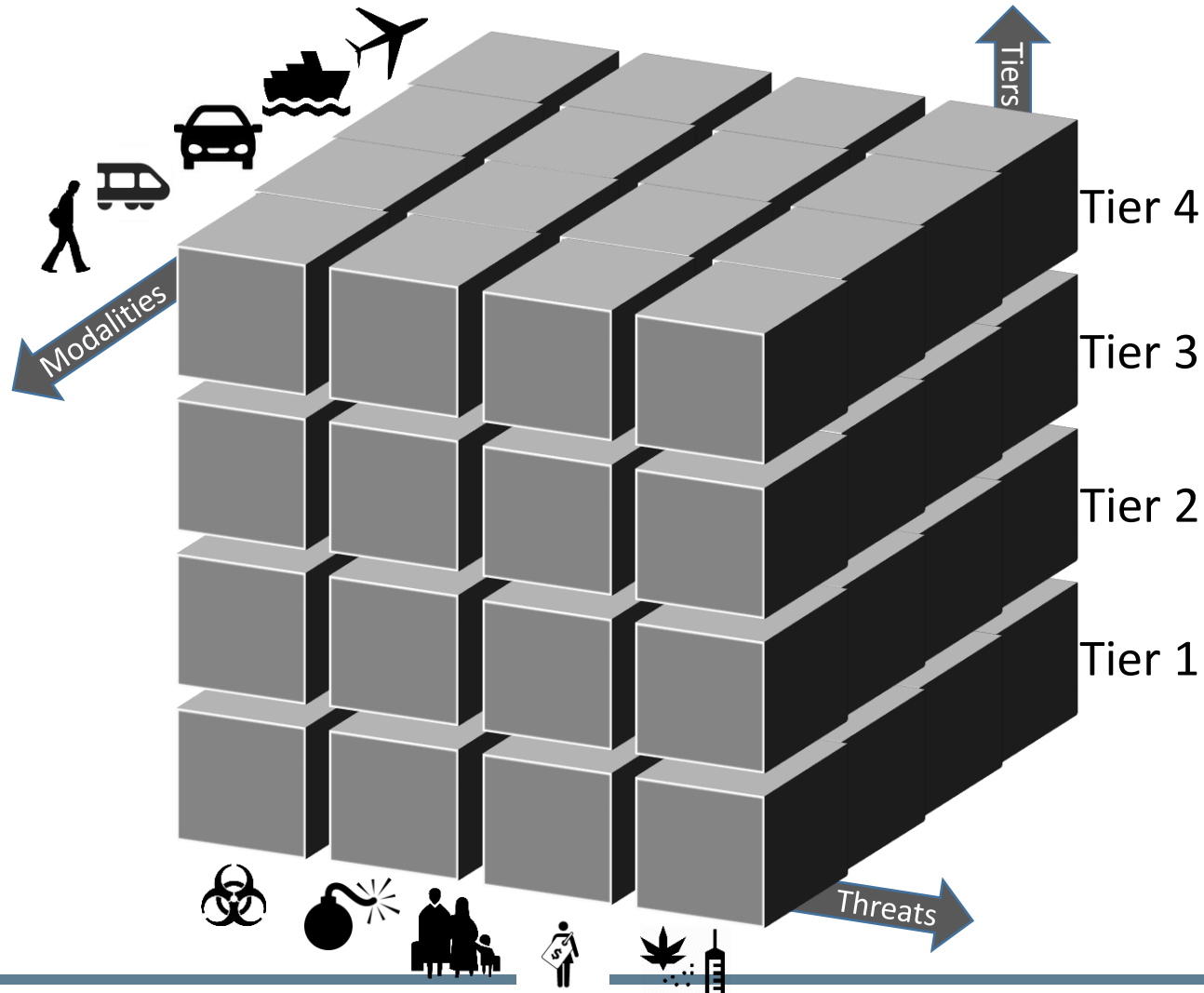




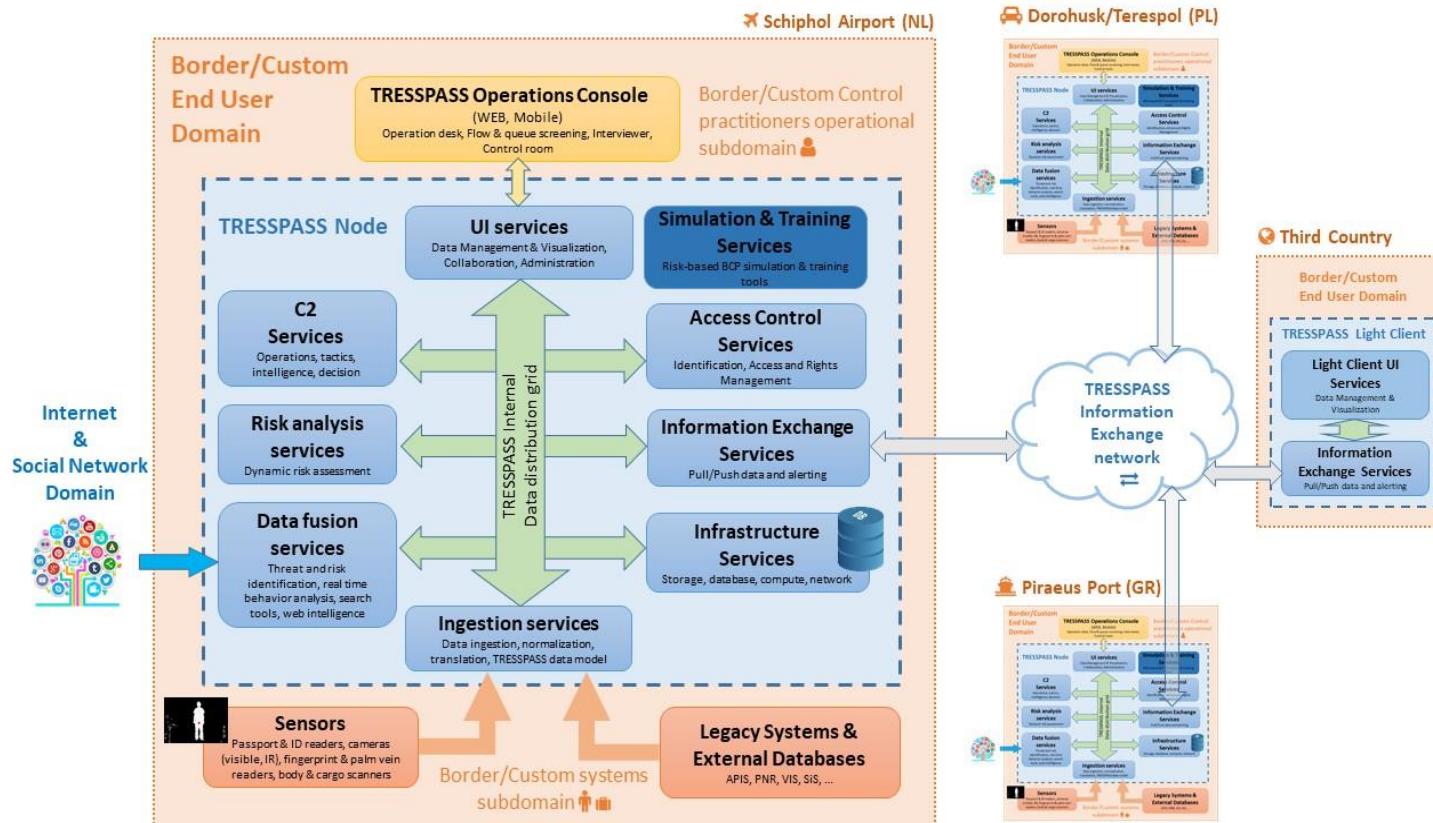
TRESSPASS Objectives

- Develop a single cohesive risk-based border management concept
- Apply an ethics and data protection “by design” approach
- Include Passenger Trust in risk management model
- Develop three pivoting pilot demonstrators
- Demonstrate the validity of the single cohesive risk-based border management concept
- Prepare for the further development of this concept





TRESSPASS Architecture



TRESSPASS Pilots

- Netherlands – Air – Schiphol Airport
- Poland – Land – Road border crossing point with Ukraine
- Greece – Maritime – Piraeus Harbour cruises



Questions?

- TRESSPASS just started – June 2018
 - Duration 3 years 6 months
- Twenty-two partners
 - Seven end user organisations
 - Consortium lead by Demokritos

