



Horizon 2020 Secure Societies European Info Day and  
Brokerage Event

**Brussels , 6-7 March 2017**

CEA



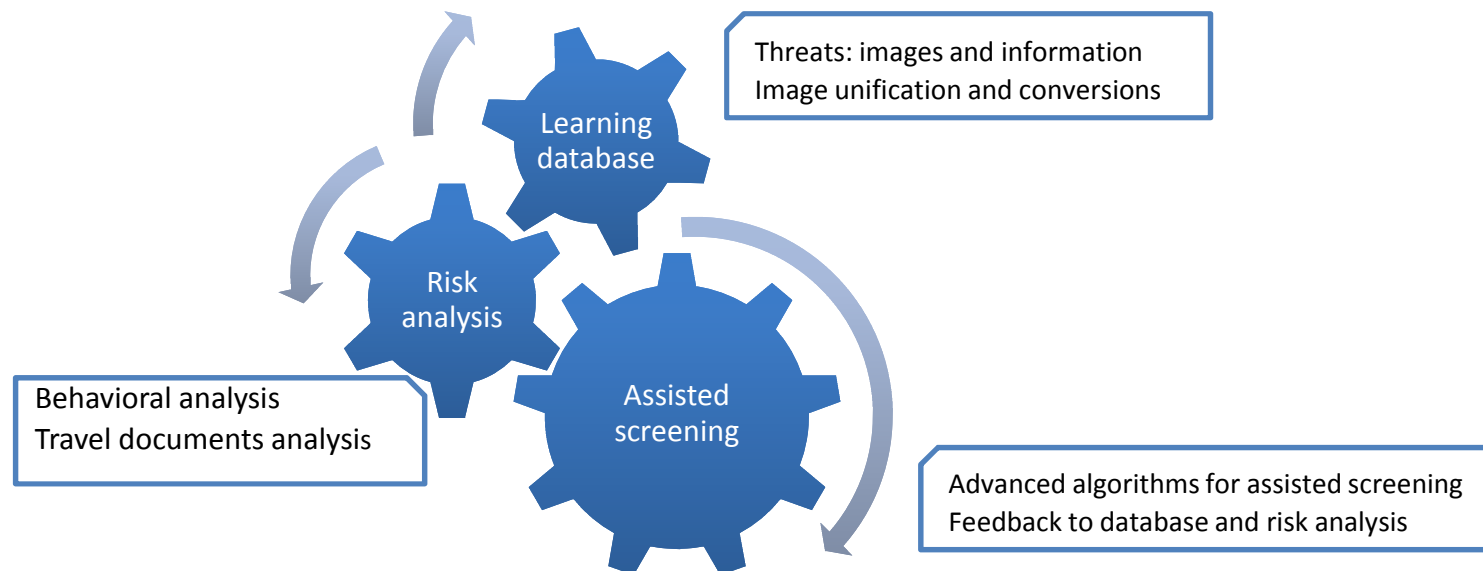
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- *CEA LIST transfers scientific knowledge and innovation « from research to industry ». Security is one major industrial application.*
- *CEA LIST recent projects on Security calls:*
  - **ACXIS**, Research on Automated Comparison of X-ray Images for cargo Scanning
  - **CBORD**, Effective Container Inspection at Border Control Points
  - **BODEGA**, Proactive Enhancement of Human Performance in Border Control
  - **VESSEDIA**, Verification Engineering of Safety and SEcurity critical dynamic Industrial Applications
  - **KONFIDO**, Secure and Trusted Paradigm for Interoperable eHealth Services.
- *Department Simulation, Imaging and Inspection will be mostly involved in this project proposal.*
  - *Simulation and Imaging based on developed CIVA platform widely used in Non-Destructive Testing for energy (nuclear, renewables), transport (air, rail, naval), steel and petrochemicals.*
  - *Instrumentation (X-Ray imaging, UT, ECT)*
  - *New monitoring and analysis Methods (equipment and algorithms)*



## BIASED

- *Objectives:*
  1. Assisted baggage screening in order to increase persons flow at crossing points (airports, railway or sea borders)
  2. Risk analysis module (behavior, documents, database analysis)
  3. Learning database



## BIASED

- *Results:*
  1. New assisted screening procedure for smooth border crossing
    - Development of assisting algorithms and tools based on risk assessment results
    - Real-time adaptation of screening level in function of input of risk assessment module
  2. New risk assessment module based on behavioral analysis
    - Travel document verification
    - Behavior analysis based on video data
  3. New learning database with threats, manufacturer independent
    - Creation of large database with threats (experimental and artificial with simulation software)
    - Conversion and adaptation for different systems



# Consortium



No	Partner Name	Type	Country	Role in the Project
01	COMPANY – A	IND	D	Airport Security System Integrator
02	COMPANY – B	IND	CH	Border Security Databases
03	COMPANY – C	IND	F	Security systems with video analysis
04	CEA	RTD	F	
05	EMPA	RTD	CH	
06	Fraunhofer	RTD	D	

## SEARCHED PARTNERS:

- Personal and travel information verification systems
- End users (Border security agencies)
- Data protection and ethical concerns expertise



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