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Privacy, ethical, regulatory and social no-gate crossing point solutions acceptance

Vrije Universiteit Brussel (VUB) Research Group on Law, Science, Technology & Society (LSTS)
Queen Mary University of London (QMUL) The Multimedia and Vision Research Group

Warsaw, 14 June 2018

FRONTEX - European Border and Coast Guard Agency

Workshop on EU funded border security research projects

The seven circumstances

[redacted]

- ubi (where)
- [redacted]hy)
- quem ad modum (in what way)
- quibus adminiculis (by what means)

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Why?

- European Commission identified a need

[redacted]

invading people's privacy, and the societal and political acceptance of technologies for "no gate solutions" is required **prior** to their implementation."

- Expected impact: "A method, and metrics, to assess acceptability by the society of the concept of border control processes based on "no gate crossing point solutions", and of the various technology components that may be required."

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Why? (2)

- Technology developers
- Researchers
- Border authorities
- LEAs
- Policy-makers
- Other stakeholders

by fostering proactive thinking in connection with

- **P**rivacy, **E**thical, **R**egulatory and **SO**cial **N**o-gate crossing point solutions **A**cceptance (PERSONA)

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Why? (3)

[redacted]**mpact assessment method** and to carry out [redacted]tless crossing point technologies, taking into [redacted]**requirements, privacy and personal data** [redacted]**other societal issues**.

[redacted]ent will **provide robust information for decision-makers** in a form of enumeration of potential threats and benefits, possible measures to minimise the former and maximise the latter as well as overall guidelines in order to drive the innovation and deployment of future solutions by both industry and border control authorities.

[redacted]

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Why? (4) benefits overweigh costs

- aids to:
  - foster informed decision-making
  - the protection of societal concerns
- forces to reflect
- ex ante thinking/early warning system
- inward/outward orientation
- best-effort obligation
- demonstrates accountability
- means for the public to have their voice heard

- cons
  - bureaucracy
  - waste of effort
  - complexity
  - instrumental use
  - inward/outward orientation

An impact assessment is a tool used for the analysis of possible consequences of an initiative on a relevant societal concern or concerns, if this initiative can present dangers to these concerns, with a view to support the informed decision-making whether to deploy this initiative and under what conditions, ultimately constituting a means to protect these concerns.

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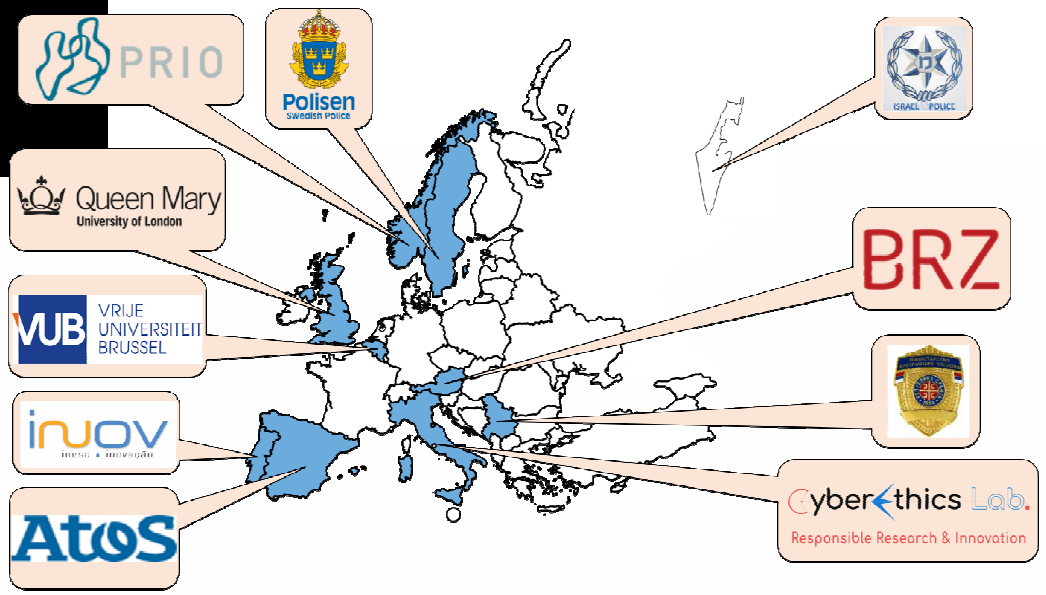
Who and where?

- 10 partners
  - Vrije Universiteit Brussel (VUB)
  - Institut for Fredsforskning Stiftelse Peace Research Institute Oslo (PRIO)
  - Queen Mary, University of London (QMUL)
- SME:
  - Cyberethics Lab (CEL)
- Industry:
  - Atos Spain S.A. (ATOS)
  - INOV Inesc Inovação (INOV)
- LEA
  - Bundesrechenzentrum – Federal Computing Centre (BRZ)
  - Swedish Police Authority, National Forensic Centre (SPA)
  - Ministry of Interior of the Republic of Serbia (SMOI)
  - Ministry of Public Security – Israel National Police (MOPS-INP)



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What?

- Analysis of the existing assessment methods
  - PIA
    - Art. 8 ECHR
  - DPIA
    - Art. 35 GDPR
    - Art. 27 Directive
  - EIA
    - Autonomy, dignity, non-maleficence, beneficence
  - SIA
    - Societal acceptance
  - SIA
    - Security aspects
  - RIA
    - National Facilitation Programme
    - Registered Traveller Programme
    - eurodac, dublin, sis, eurosur, etc.

What? (2) an ideal impact assessment

[redacted]

5. Includes recommendations
6. Constitutes best efforts obligations
7. Relies on sufficient knowledge and know-how
8. Documented
9. Deliberative
10. Accountable
11. Assessor is independent
12. Simple
13. Adaptive
14. Inclusive
15. Receptive
16. Grows in supportive environment

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What? (3)

[redacted]ework for border authorities;

[redacted]sing technologies on the relevant privacy, [redacted]gulatory as well as societal concerns;

[redacted]egories of stakeholders;

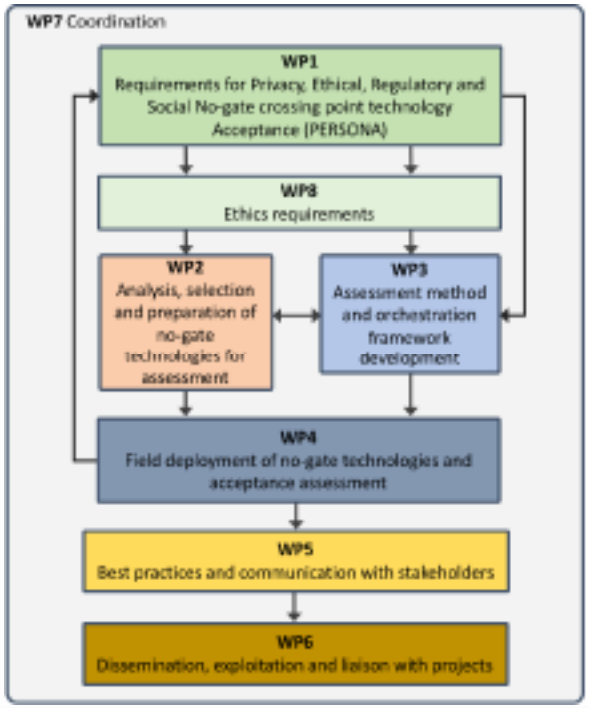
- Developing a textbook to assist organizations and LEAs in the assessment of the impacts of border crossing technologies;

[redacted] decision-makers' financial and human resources through the development of guidelines necessary for the adequate use of impact assessments;

- Improving the harmonisation of impact assessment methods across the EU, through the use of uniform materials for carrying out an impact assessment.

How and by what means?

- WP1 – Requirements for Privacy, Ethical, Regulatory
- [redacted]estration framework development
- WP4 – Field deployment of no-gate technologies and acceptance assessment
- [redacted] Best practices and communication with stakeholders
- WP6 – Dissemination, exploitation and liaison with projects
- WP7 – Coordination
- WP8 – Ethics requirements



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How and by what means? (2) WP1

[redacted] best practises regarding the acceptance of

[redacted] **and user scenarios** for the deployment and

[redacted] **define technical requirements** for no-gate border security solutions selected for impact assessment;

- **identify PERSONA requirements** based on user and technical requirements and latest EU regulations;
- study and identify potential risks and **mitigation controls**;
- to **perform** thorough **analysis of impacts** against defined requirements in order to identify elements which require further treatment and mitigation;

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How and by what means? (3) WP2

[redacted]**chnologies** and solutions for no-gate border

[redacted]upon the assessment of the selected

[redacted] scanners and smart sensors

- **investigate and setup** latest video analytics and data fusion solutions for person, object and abnormal behavior detection
- **investigate and setup** security assessment and decision support systems
- **prepare system** for selected national facilitation programme for assessment
- carry on **technical validation** of selected technologies

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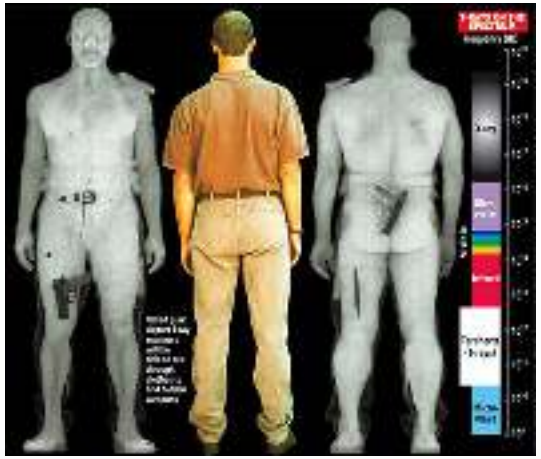
How and by what means? (4) WP2

Technologies to be assessed

[redacted] or ultra-

[redacted]r

- Water Poisoning, chemical sensor
- GPS, mounted on vehicle with I/O interface (e.g. ignition on/off [redacted]tatus)
- Body & Luggage Scanner
- Unmanned Ground Vehicle (UGV) with chemical sensor on board
- Face Recognition sensor
- Access control



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How and by what means? (5) WP2

Technologies to be assessed (cont.)

[redacted]ation of an mobile-phone

[redacted] detect: Abandon Object, Trip Wire, Loitering and

[redacted]d Material and Percentages

[redacted]info, airport operation management system

- Surface Movement Guidance and Control System (SMGCS) Radar, Object Localization i.e. Surface movement radar (SMR)

[redacted]Easy: Decision Support System

- No-gate crossing point mobile system
- National Facilitation Programme
- Person trackers based on distinctive region of interest
- Image and face recovery

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How and by what means? (6) WP2

PERSONA orchestration framework

[redacted]

[redacted]ions, that allows

- To repeat specific scenarios (stories)
- Reproduce complex scenarios (e.g. full Proof of [redacted]oncept (POC) scenarios)
- Simulate dangerous situations (example: explosive detection alarms)

- Simulator output events are logged with time stamp
- Support PERSONA's operational training

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How and by what means? (7) WP3

[redacted]hensive acceptance assessment of no-gate

[redacted]effective assessment process;

- develop an **orchestration plan** and set guideline for the **orchestration framework** for the assessment of the diversity of solutions;

[redacted]**nd deploy the universal orchestration framework** for seamless integration and assessment of wide range of no-gate technologies

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How and by what means? (8) WP4

[redacted] selected no-gate crossing point solutions;

[redacted] **solutions** for acceptance assessment;

[redacted] **res** for collection and management of [redacted]

- conduct **thorough assessment of selected no-gate crossing point solutions** with focus on privacy, regulatory and data protection aspects

[redacted] **ssessments of the social and ethical acceptance** of selected solutions by public

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How and by what means? (9) WP5

[redacted] experts and key stakeholders in the field of

[redacted] experts of the end-user organisations in the

[redacted] **and decision-makers** for direct communication on PERSONA requirements, outcomes and best practises;

- develop a **detailed contingency plan** and treatment measures which will form an important part of the guidelines and recommendations to decision makers;
- [redacted] produce and publish the **PERSONA textbook**, a complete guide and report from the entire acceptance assessment work;
- **communicate** derived guidelines and best practises with stakeholders and decision makers from PERSONA network and beyond

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How and by what means? (10) WP6

[redacted] and developing different strategies to

[redacted] oject results to the relevant stakeholders

[redacted] **y BES-15 projects** and setup synergies for [redacted] nt;

- **organise three dedicated workshops** in order to connect with key stakeholders, exchange assessment results and discuss strategies;
- perform a **detailed analysis of PERSONA assets**, research trends and drivers in order to support the project exploitation;
- undertake **standardisation activities** among international and EU governing bodies with the support of LEAs.

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How and by what means? (11)

[redacted]ternal stakeholders, external stakeholders)

- Meetings
- Workshops
- Participation on each others' events
- Aim is the create a best practice that will be actually used

How and by what means? (12) Dissemination

- [redacted]
  - Related European border and custom authorities
  - Security industry
  - Scientific community
  - End users (airports, border crossing points etc.
- [redacted] 32 deliverables
- website/brochure/newsletter/social media
- [redacted] and research publication
- EC dissemination mechanisms
- Demonstrations
- Workshops

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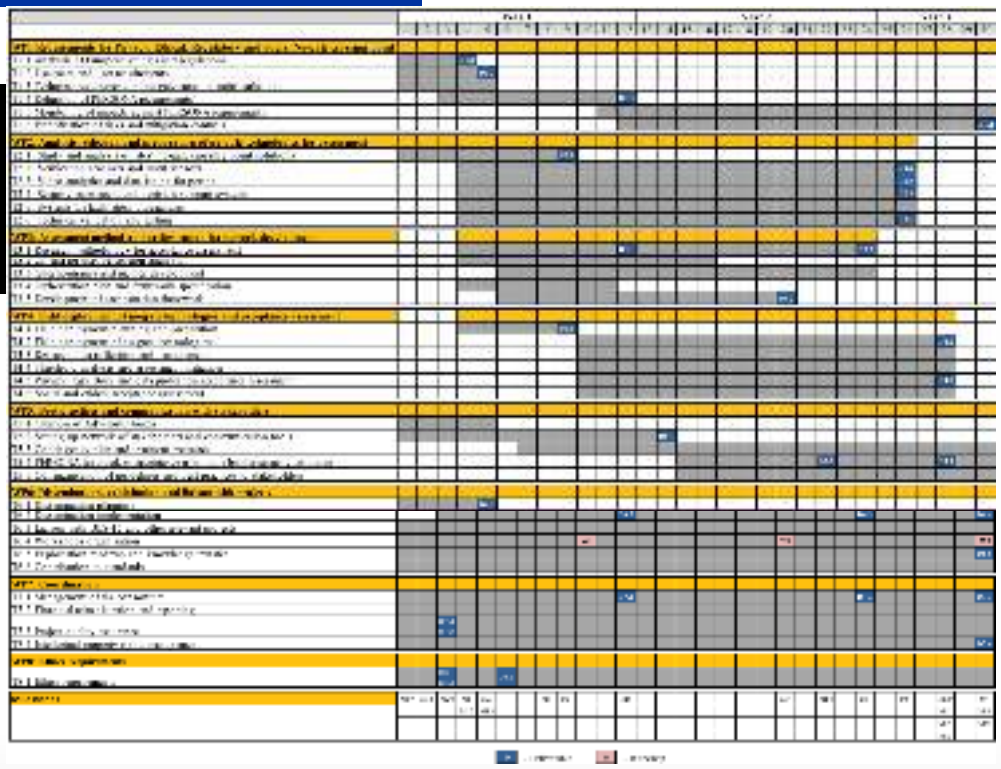
When?

[redacted]



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[redacted]

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