



PrivAcy pReserving Infrastructure for Surveillance

Deliverable D7.3 Dissemination Material

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Document History

Version	Status	Date
v0.1	Draft of sections, first content	01/12/2014
v0.2	Update of all sections	15/12/2014
v0.3	Integration of the flyer	31/12/2014
v0.4	Integration of the storyboards	16/01/2015
v1.0	Final	16/01/2015

Approval		
	Name	Date
Prepared	Antonio Kung	16/01/2015
Reviewed	All Project Partners	16/01/2015
Authorised	Antonio Kung	16/01/2015
Circulation		
Recipient	Date of submission	
Project partners	16/01/2015	
European Commission	16/01/2015	

Executive Summary

The dissemination material and activities of the first 6 months of the PARIS project are presented.

1 Introduction

The dissemination of information is a key requirement of the PARIS project. PARIS research, development, and conclusions are valuable only if they are not shared with other projects, universities and companies. PARIS has disseminated its information in the following ways:

- **Website:** the PARIS website
- **Factsheets:** A PARIS factsheet for general distribution
- **Project Presentation:** slides for a general presentation of the PARIS project to be shown at conferences and workshops.
- **Flyer:** documentation for general distribution
- **Storyboards:** video for explaining the project on the web

The following sections detail these activities and documents.

2 Website

The PARIS website is found at www.paris-project.org. There are currently web pages for the following topics:

- **Home:** General introduction to the project.
- **Project Overview:** The methodological approach and theoretical framework.
- **News:** Notable activities of members of the project.
- **Factsheet:** The basic administrative details of the project.
- **Presentations:** Papers presented in academic and industrial symposiums and conferences.
- **Publications:** Papers published in professional and academic journals.
- **Deliverables:** A list of TERESA deliverables, with the public ones available in a pdf file.
- **Consortium members:** A list of the consortium members with links to their websites.
- **Contacts:** Contact information for each partner of the project.
- **Links:** Links to related projects and related information.

The general look of the site layout is presented on the following page.



PrivAcy pReserving Infrastructure for Surveillance

PARIS Project

- [Home](#)
- [Project Overview](#)
- [News](#)
- [Factsheet](#)
- [Presentations](#)
- [Publications](#)
- [Deliverables](#)
- [Consortium Members](#)
- [Contacts](#)
- [Links](#)

Home

The goal of the project PARIS (PrivAcy pReserving Infrastructure for Surveillance) is to define and demonstrate a methodological approach for the development of a surveillance infrastructure which enforces the right of citizens for privacy, justice and freedom. At the same time, it takes into account the evolving nature of such rights, since aspects that are acceptable today might not be acceptable in the future. It also includes the social and anthropological nature of such rights, since the perception of such rights varies over time and in different countries.

Methodology:

The methodological approach will be based on two pillars:

- a theoretical framework which balances surveillance with privacy/data protection and fully integrates the concept of accountability.
- a process for the design of surveillance systems which from the start takes into account privacy (i.e. privacy-by-design) and accountability (i.e. accountability-by-design).

For more details, see the pages for Project Overview, Objectives & Approach, Expected Results, and the Factsheet.

Keywords:

- SALT (Social / Anthropological / Legal / Technological) framework
- Privacy-by-Design
- Accountability-by-Design

Latest News:

- **PARIS Participates in VideoSense Summer School**
30 June 2013, Santorini, Greece
PARIS will participate in the [Second VideoSense Summer School](#) on Ethically-guided and Privacy-respecting Video Analytics. This programme aims at bringing together researchers working in the field of privacy-respecting and ethnically-aware video analysis in security.
- **PARIS Participates in Privacy-Preserving Cluster Workshop**
22 March 2013
PARIS members are invited to join the [Clustering workshop: Privacy By Co-Design in Socio-ethical and Privacy Preserving Surveillance Systems Video-Analytics: Framework Architecture, Algorithms and Impact Assessment](#). This is workshop part of the the [MediaEval 2013 Privacy Preserving Video-Analytics Challenge](#) organized by the EC-funded project [VideoSense: Network of Excellence for Privacy-Preserving Video-Analytics](#).

See the [News](#) page for more information.

The PARIS project is part of the Security research theme of the 7th Framework Programme of the European Commission.



3 Factsheet

A factsheet for general distribution was created with the target audiences of the general public and professionals in related domains. The factsheet has been updated during the project in order to match with current progress. The following two pages present the content of the general PARIS factsheet.

PARIS

PrivAcy pReserving Infrastructure for Surveillance



The goal of the project PARIS is to define and demonstrate a methodological approach for the development of a surveillance infrastructure which enforces the right of citizens for privacy, justice and freedom. At the same time, it takes into account the evolving nature of such rights, since aspects that are acceptable today might not be acceptable in the future. It also includes the social and anthropological nature of such rights, since the perception of such rights varies over time and in different countries.

At a Glance

Contract number
312504

Project co-ordinator
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Project website
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Programme Area
SP7-SECURITY

Partners
Trialog (France)
AIT (Austria)
INRIA (France)
KU Leuven (Belgium)
Universidad de Malaga (Spain)
Université de Namur (Belgium)
Thales (France)
Visual Tools (Spain)

Project funding
3.49 million Euros

Duration
36 months, starting 01/01/2013

Objectives

- **The definition of a Socio-contextual ethicAI, Legal and Technological (SALT) framework.** This will provide for an evolving understanding of the balance between the concept of private vs. public in a surveillance system.
- **The development of a SALT framework management tool.** The tool allows for a digital reference and representation of a SALT framework. It is used by stakeholders as a reference, including the design of surveillance systems. It includes mechanisms for creating and updating a SALT framework.
- **The definition of a SALT compliant process for surveillance.** It uses a reference SALT framework and integrates process activities and process artifacts for Privacy by Design and Accountability by Design.
- **The evidence of the value of SALT compliant process for surveillance in two cases.** A laboratory demonstration will show how a surveillance system can be developed using a SALT compliant process for video data lifecycle management-based applications.

Methodology

PARIS will define and demonstrate a methodological approach for the development of surveillance infrastructure which enforces the right of citizens for privacy, justice and freedom and takes into account the evolving nature of such rights, e.g. aspects that are acceptable today might not be acceptable in the future, and the social and anthropological nature of such rights, e.g. perception of such rights varies.

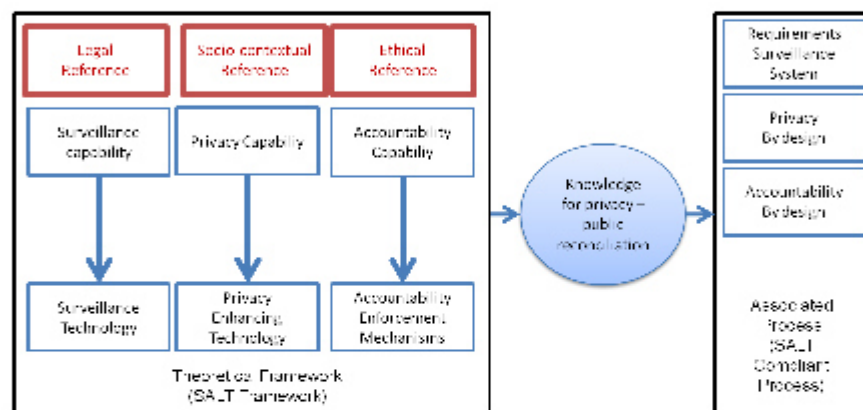
The methodological approach will be based on two pillars:

- a theoretical framework which balances surveillance with privacy/data protection and fully integrates the concept of accountability.
- a process for the design of surveillance systems which from the start takes into account privacy (i.e. privacy-by-design) and accountability (i.e. accountability-by-design).

SALT Framework

The theoretical framework is called SALT: **S**ocio-contextual / **A**l / **L**egal / **T**echnological. This framework will first be defined in a generic way, and guidelines will be provided to define specialised conceptual frameworks, e.g. for a given country. Examples of SALT frameworks will be provided. The case of SALT frameworks interplay (i.e. exchanging surveillance data) will be analysed. A framework management tool will be developed (1) to allow for the creation and edition of a conceptual framework and (2) to subsequently act as a reference to surveillance system designers.

A SALT compliant design process will then be defined, i.e. surveillance and privacy balance according to the specialized framework will be ensured through the process. Two use case will be demonstrated, one based on video search technology which focuses on the archived data, and one based on biometrics technology which focuses on embedded systems sensor like data. The two use cases will use different SALT frameworks. The resulting methodology will be promoted through associations and standardization bodies.



SALT Management Tool

The tool allows for a digital reference and representation of a SALT framework. Stakeholders involved in the operation of a surveillance system, user associations, government representatives, lawyers, surveillance operators, and surveillance systems providers need adapted access to the SALT framework as a reference, i.e. detailed information on their domain of interest and high level consistent information on other aspects. The tool is based on a unified common digital representation of the elements of a SALT framework which is structured in such a way that such separation of concern can be ensured. The benefit of this tool is the assurance that a common understanding is reached between stakeholders.

The tool includes mechanisms for creating and updating a SALT framework. There could be many SALT frameworks (e.g. one per country). Therefore the same tool should allow for the creation and different frameworks. A given framework could also evolve since its social-contextual, ethical, and legal references change over time. The surveillance, privacy, and accountability capability could also evolve. The tool should allow for updates.

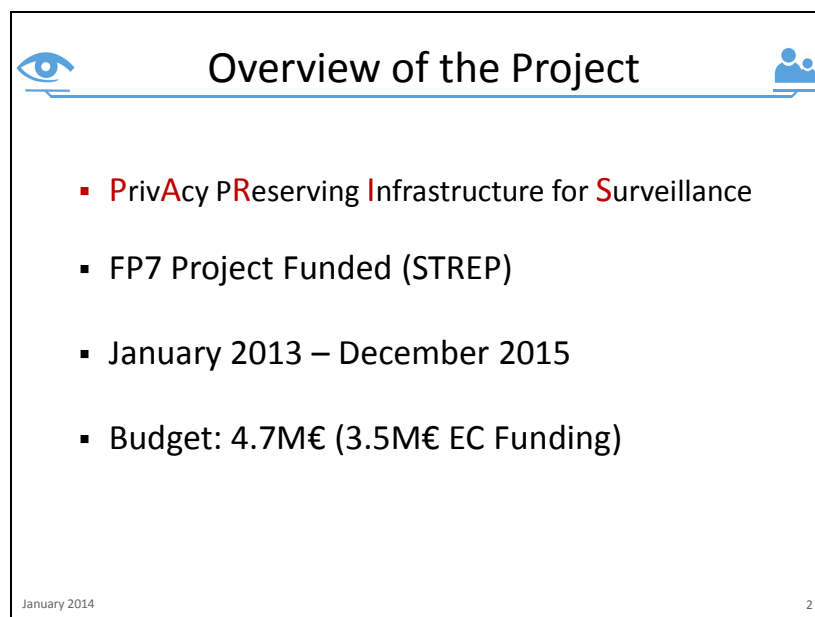
The tool includes information to allow for reasoning. It will integrate information and guidelines to allow for reasoning, based on the provision of the rules specified to reach the proper public / private balance and the rules for the potential interplay between SALT frameworks. The tool could also include some automated reasoning capability (to be investigated during the project).


The tool is used as a reference for the design of surveillance systems which comply with a given SALT framework. Designers of surveillance systems and stakeholders in the entire value chain, from technology providers to system integrators, should be able to use a SALT framework as a reference throughout the design and subsequent deployment and operation of surveillance systems. Specific information can be provided such as rules, constraints, and guidelines on the balance between surveillance, privacy, and accountability capability.

4 Project Presentation


A general slide presentation is available to all partners to show at meetings and conference in order to communicate the basic concepts and goals of the project. The presentation is continuously updated with the project results.

The following pages present the contents of the PARIS slide presentation.






Consortium




- Academic Partners
 - Austrian Institute of Technology (Austria)
 - INRIA (France)
 - Katholieke Universiteit Leuven: Interdisciplinary Center for Law & ICT (Belgian)
 - Univ. of Malaga (Spain)
 - Univ. of Namur (Belgian)
- Industrial Partners
 - Thales (France)
 - Trialog (France) - Coordinator
 - Visual Tools (Spain)

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Mission



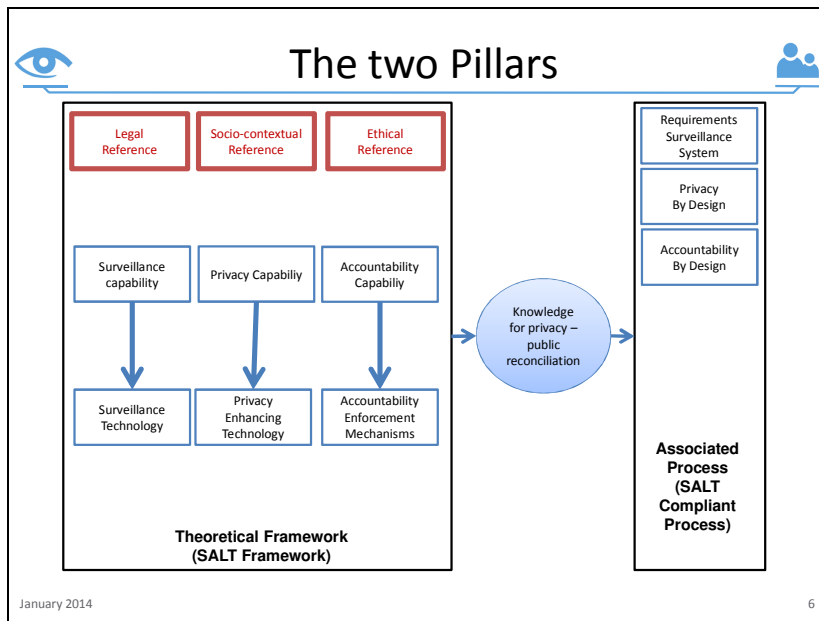
- Define and demonstrate a methodological approach for the development of surveillance infrastructure which
 - enforces the right of citizens for privacy, justice and freedom
 - takes into account the evolving nature of such rights, e.g. aspects that are acceptable today might not be acceptable in the future
 - takes into account the **socio-contextual and ethical** nature of such rights, e.g. perception of such rights varies


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Methodological Approach


- Based on two pillars:
 - A theoretical framework
 - **reconciling** surveillance and privacy/data protection
 - integrating the concept of accountability
 - An associated process for the design of surveillance systems
 - integrates from the start privacy (i.e. Privacy-by-Design)
 - Integrates from the start accountability (i.e. Accountability-by-Design)

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Objectives




- **O1: Definition of SALT: a Socio-contextual, ethical, Legal and Technical framework**
 - for an evolving understanding of the balance between the concept of private (vs. public) in a surveillance system
- **O2: Development of a SALT framework management tool**
 - digital reference and representation of a SALT framework
 - includes mechanisms for creating and updating a SALT framework
- **O3: Definition of a SALT compliant process for surveillance**
 - combines a reference SALT framework and processes for Privacy-by-Design and Accountability-by-Design
- **O4: Provide Evidence of the Value of SALT Compliant Process for Surveillance in Two Cases**
 - laboratory demo of video data lifecycle management based applications
 - lab demo of biometrics based applications

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Issues



- Avoiding win/lose, either/or, unnecessary tradeoffs
- Integrating the multiple perceptions of privacy
 - depends on socio-contextual and ethical factors
 - depends on legislation/regulatory factors
- Evolution
 - new technologies, online social media, mobile connectivity
 - changing perception of privacy and surveillance

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PARIS Main Concepts

```

    graph TD
      SALT((SALT)) --- Socio[Socio-contextual ethicAI]
      SALT --- Technological[Technological]
      SALT --- Legal[Legal]
    
```

- SALT frameworks
 - Collection of concepts and overarching principles
 - concerning privacy in public spaces
 - that will be used as reference for the design of surveillance systems
 - Includes Socio-contextual ethicAI, Legal, Technical viewpoints
- SALT frameworks management
 - Capability to customise and enhance SALT frameworks

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SA in the SALT Framework

Socio-contextual ethicAI



```

    graph TD
      SALT((SALT)) --- Socio[Socio-contextual ethicAI]
      SALT --- Technological[Technological]
      SALT --- Legal[Legal]
    
```

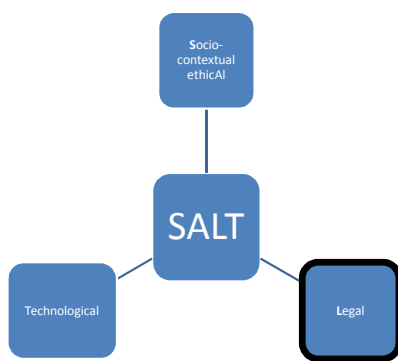
- Rationale
 - Integrate the socio-contextual and ethical perspective in the framework
 - Take into account local perceptions of privacy & surveillance (country or regional level)
 - Need for a reference that can be used for privacy impact assessment
- Needs
 - Integrate framework concepts and principles emerging from specific socio-contextual and ethical studies
 - Provide features to update framework as privacy is better understood in a local context

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L in the SALT Framework

Legal





- Rationale
 - Integrate legal viewpoint on privacy & surveillance
 - Take into account specific legislation on privacy & surveillance
 - Need for a reference that can be used for privacy impact assessment
- Needs
 - Integrate in framework concepts and principles emerging from legislation
 - Provide features to update framework as legislation evolves

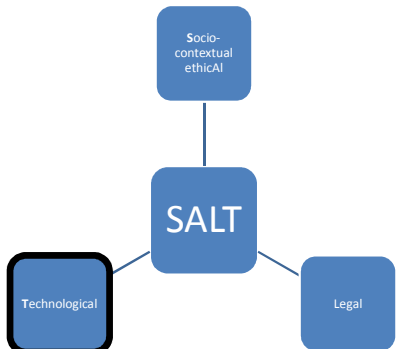
January 2014

11

T in the SALT Framework

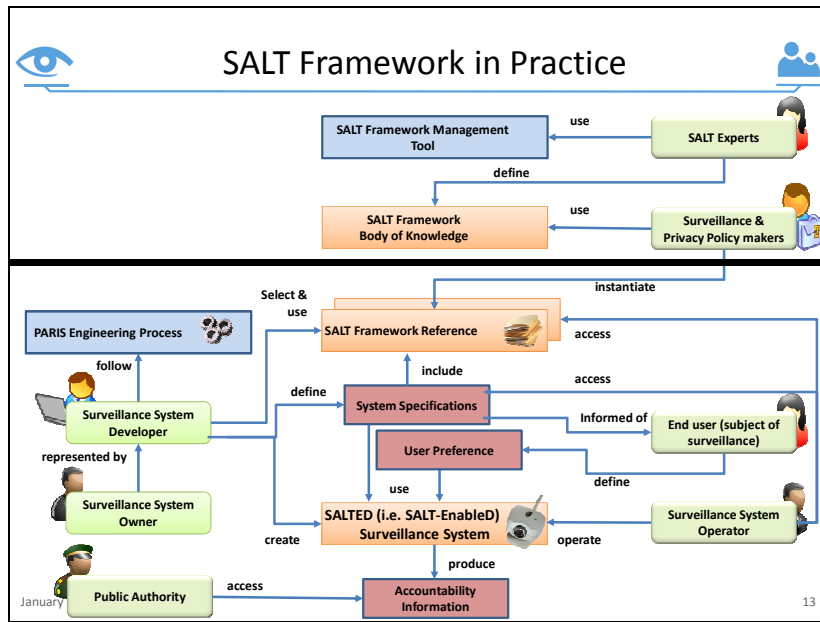
Technological



- Rationale
 - Integrate technology viewpoint on privacy & surveillance
 - Need for a reference that can be used for privacy impact assessment
- Needs
 - Integrate in framework concepts and principles emerging from technology status
 - Provide features to update framework as technology evolves

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For more information, visit the PARIS website:

www.paris-project.org

Project Co-ordinator

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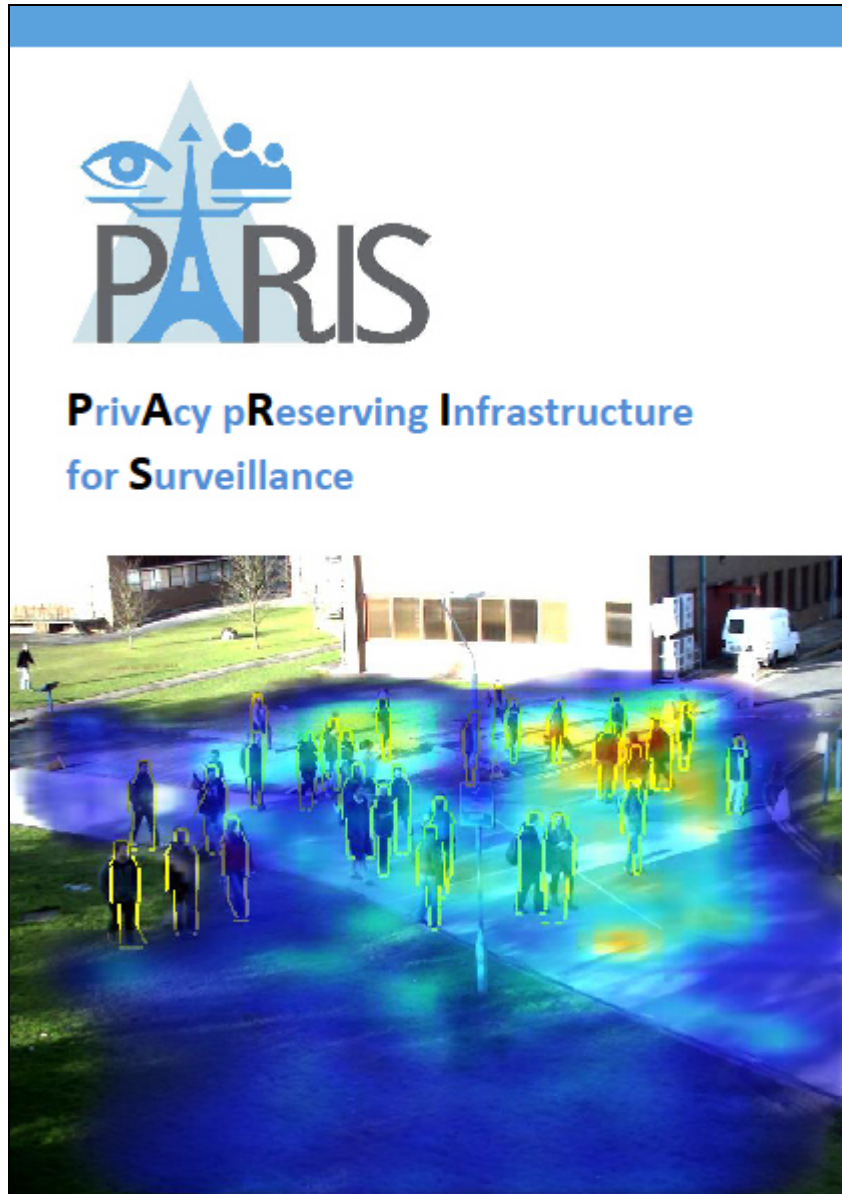
Technical Co-ordinator

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christophe.jouvray@trialog.com



5 Flyer

A flyer has been also prepared. In particular, it has been distributed in CPDP 2015 (included in the conference bag). It consists in 4 pages summarizing the project. The following picture presents the flyer.



Problem Statement

Designing privacy-aware surveillance systems is a complex task. Some problems still exist:

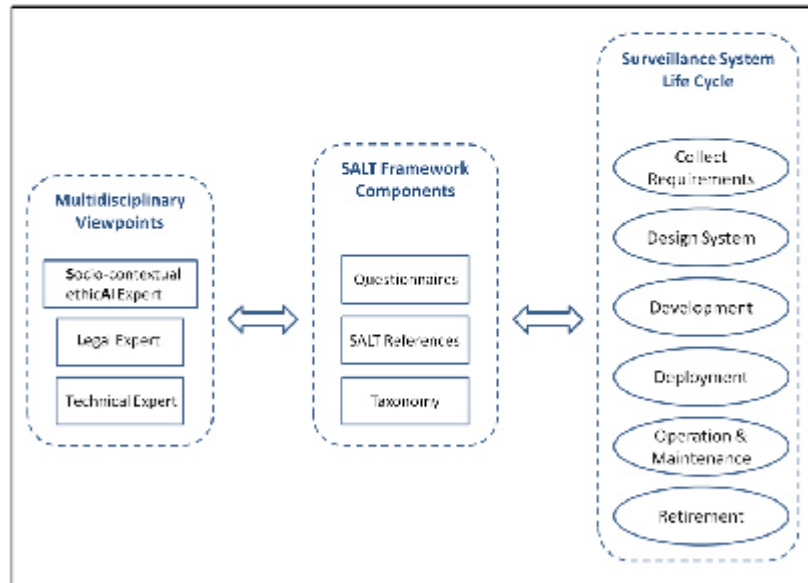
- The design of privacy-aware surveillance systems requires a specific methodology.
- There is currently no experience in multidisciplinary practice. Ethics and legal experts do not know how to interact with system designers. Conversely, it is difficult for designers to integrate socio-ethical and legal requirements.
- There is continuous evolution and evaluation of social perception, laws, technologies, and practices.

Main Objectives and Contributions

- The definition of a framework with Socio-contextual ethical, Legal and Technological (SALT) viewpoints. This will provide an evolving understanding of the balance between the concept of private vs. public in a surveillance system.
- The development of a SALT framework management tool. This tool facilitates a digital reference and representation of a SALT framework to be used by stakeholders as a reference. It includes mechanisms for creating and updating a SALT framework.
- The definition of a SALT compliant process for surveillance. It uses a reference SALT framework and integrates process activities and process artefacts for Privacy-by-Design and Accountability-by-Design. The value of the SALT compliant process for surveillance will be demonstrated by two cases. A laboratory demonstration will show how a surveillance system can be developed using a SALT compliant process for video data in lifecycle management-based applications.

PARIS Demonstrators

- **Privacy-preserving Video Archive Search System:** a video archive search examines a large amount of video data for incident investigation. This usually involves search, analysis, and collection of video surveillance data from the crime scene.
- **Biometrics Surveillance System:** detection of unauthorized access to a building with security requirements while preserving the subject's privacy. In the case of an intrusion, the re-identification mechanism using an innovative biometric technology facilitates the work of security operators and the collection of evidence for law enforcement.





Project Website
www.paris-project.org

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Project Details
Start date: Jan 2013
Duration: 36 months
Reference: SEC - 312504

The PARIS project is funded by the Seventh Framework Programme of the European Commission.



6 Storyboards

In order to enhance the audience, the project has prepared some storyboards. It consists on videos on the following topics:

- General. Presents the challenges and the contributions of the project
- Tools. Presents the requirements and the targeted tools.

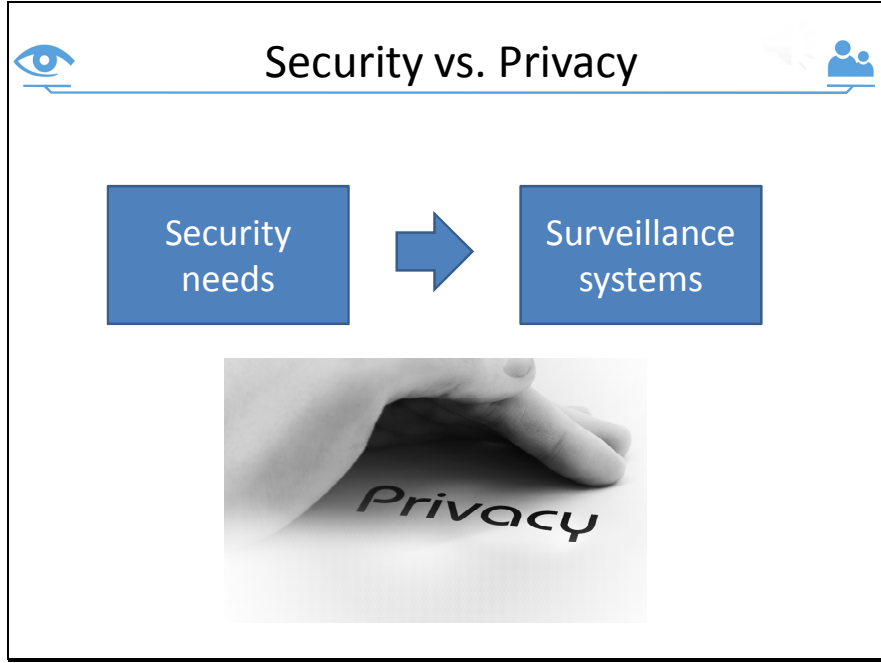
The video are composed of slides with a narration explaining the slide. The video will be shown to the advisory boards and then published in you tube. The project will update these videos with the last results and will study if other topics must be addressed. The following subsections present the two storyboards.



6.1 General Sotryboard



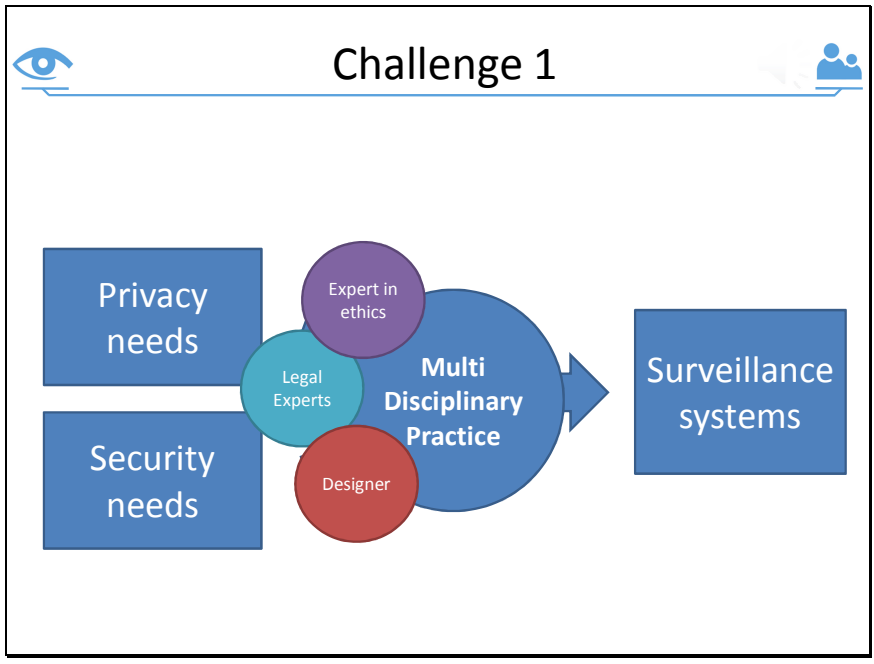
Surveillance Systems

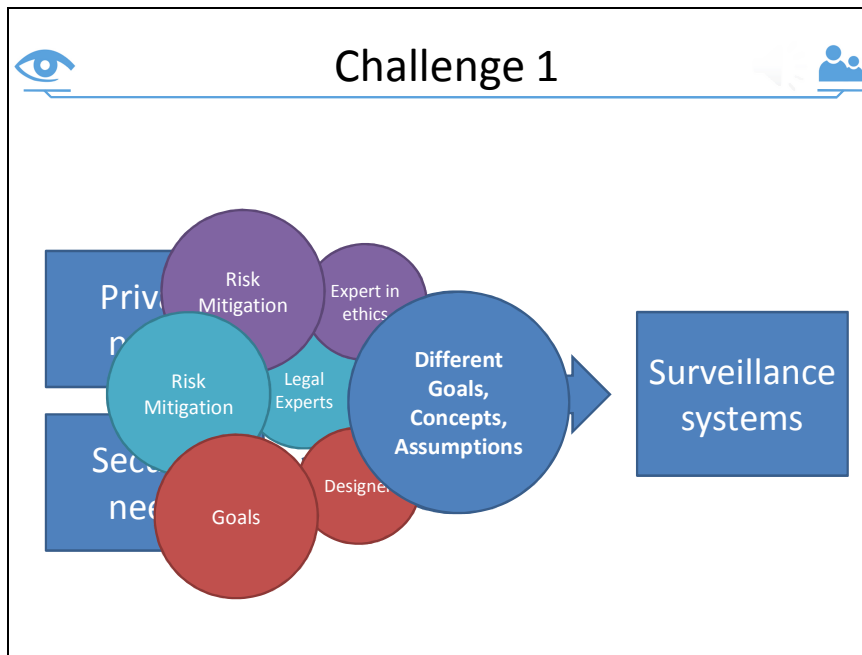
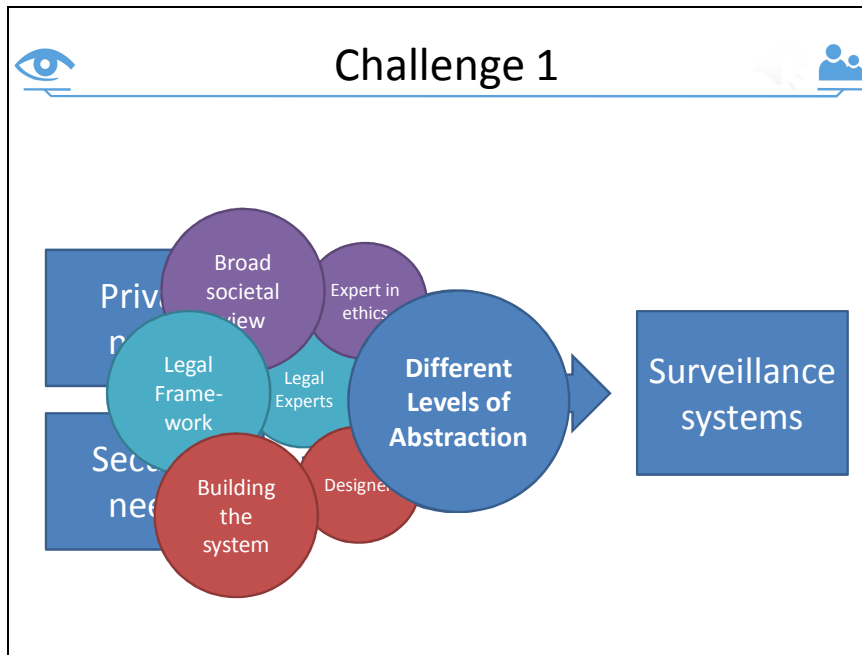
The collage features several elements: a UPI 'public intelligence' banner, a headline 'More surveillance' with a sub-headline 'Thales has announced that it is providing Mexico City to improve citizen security', a social media sharing bar with icons for Facebook, Twitter, LinkedIn, and Google+, a photo of a control room with the caption 'REPORTING FROM MEXICO CITY: The cameras peek at street platforms, watching in the city.', and a news article titled 'Mexico City Opens "C414" Public-Surveillance Intelligence Center' with a photo of the center's interior and a caption: 'A view of computer screens during the opening of the new C414 Emergency Operations Centre in Mexico City October 25, 2011. The centre will coordinate actions against organised crime and deal with natural disasters. The centre will be staffed with intelligence and research personnel and will be connected to more than 8,000 video cameras generating more than 15,000 images per second which have been strategically placed around the quake-prone metropolis of 20 million people, reported local media. REUTERS/Bernardo Montoya'

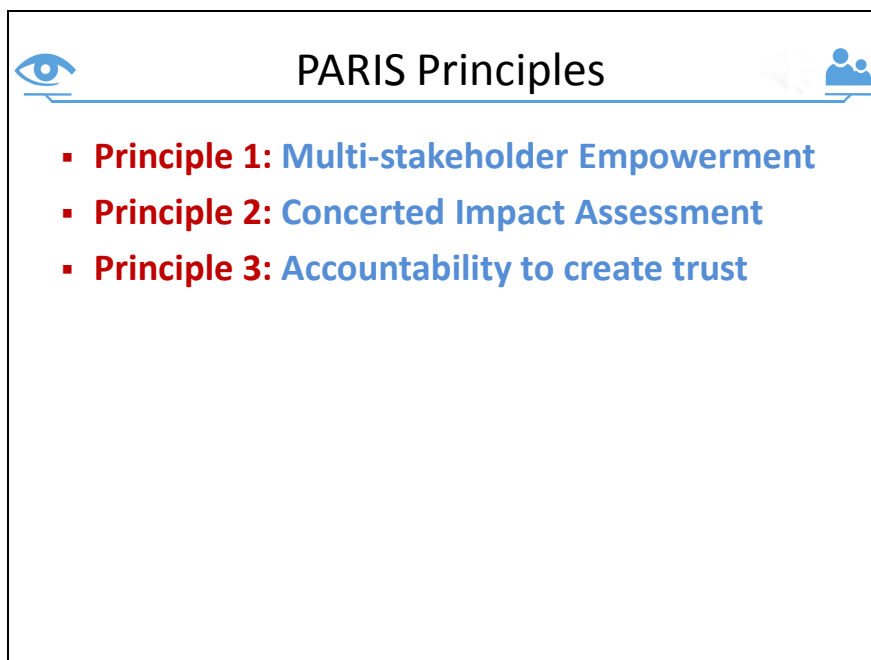
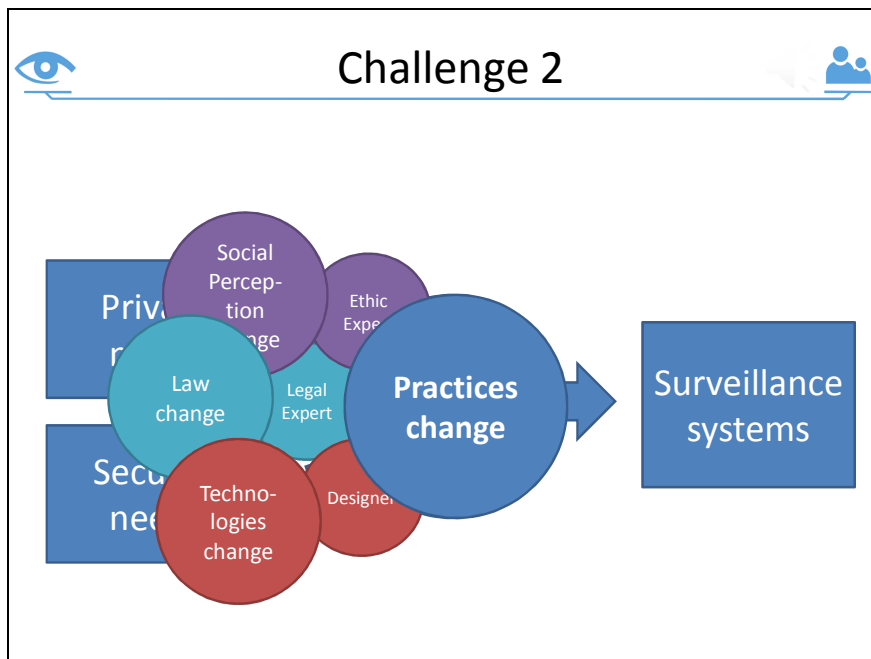


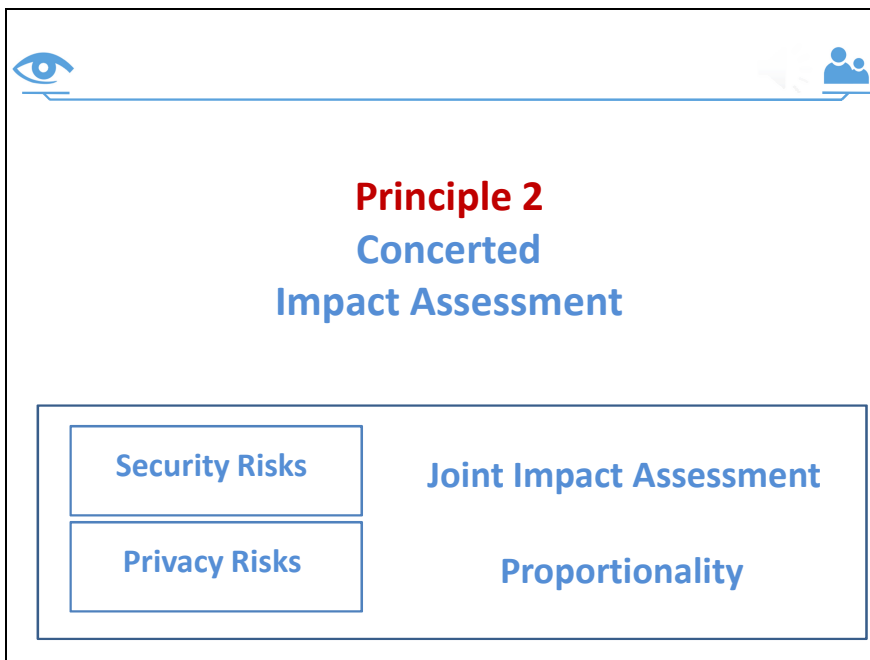
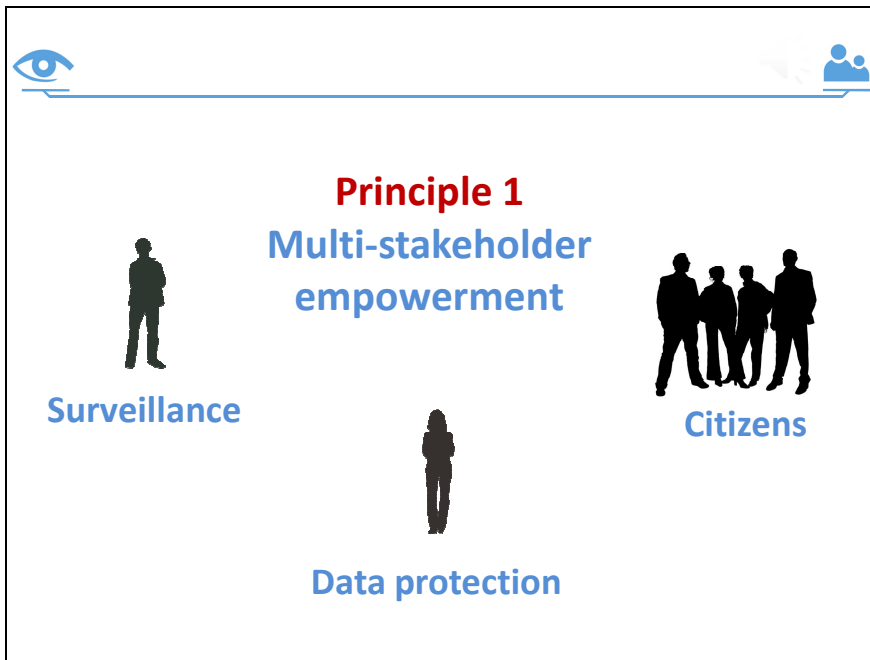
 **PARIS Objective** 



Integrate Privacy-by-Design in Surveillance systems














Principle 3
Accountability to create trust

**Transparency and
Auditability
Measures**

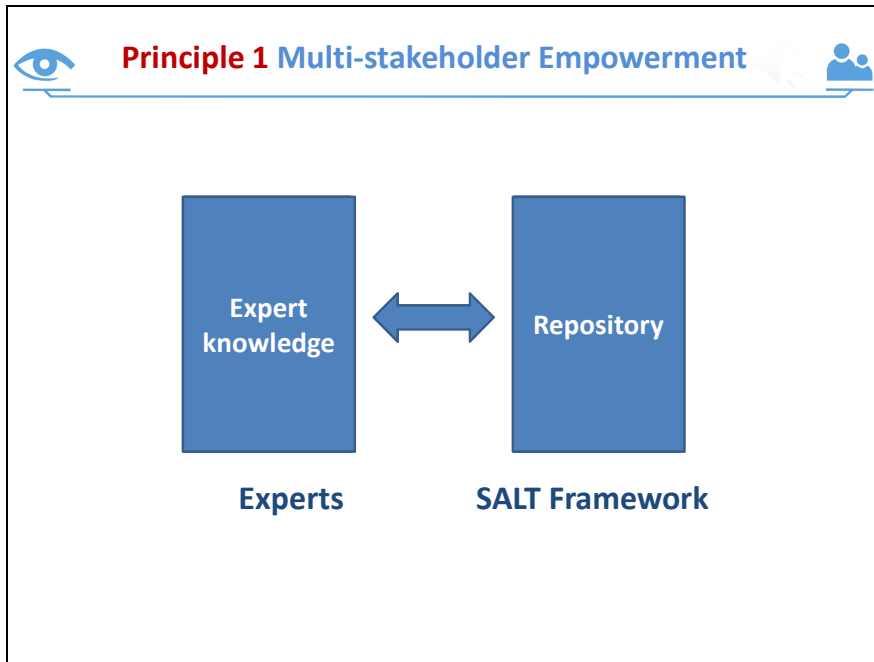
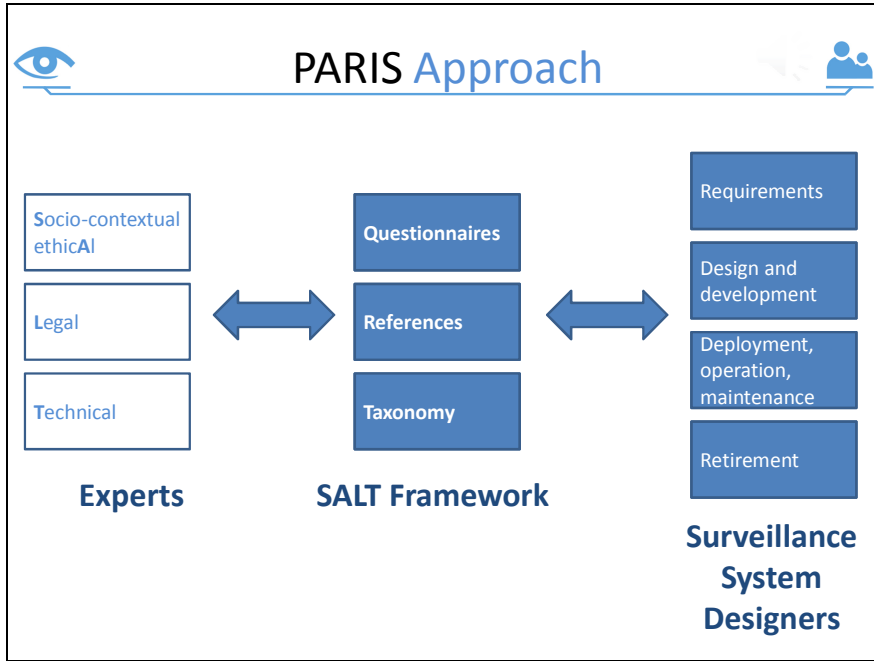


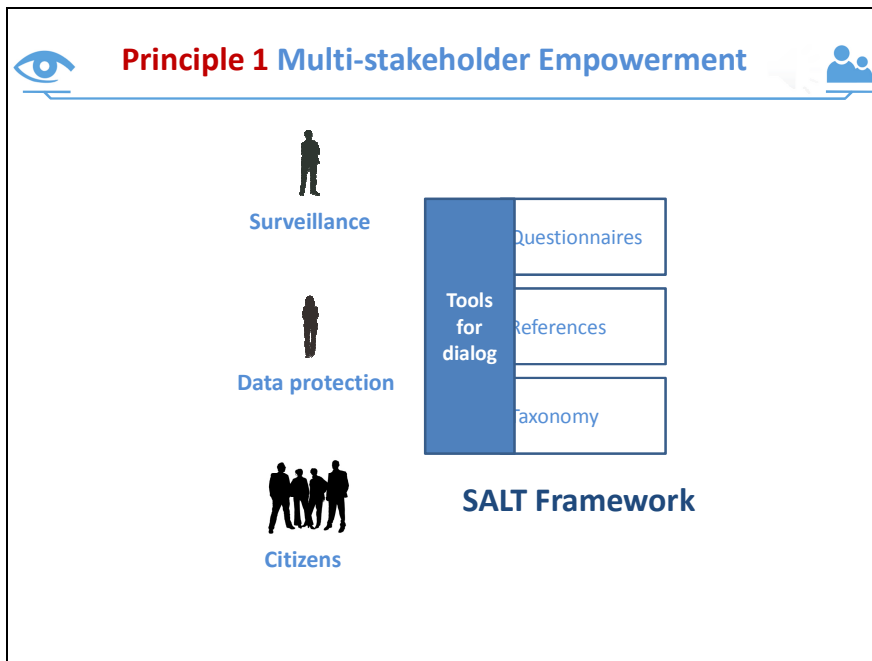
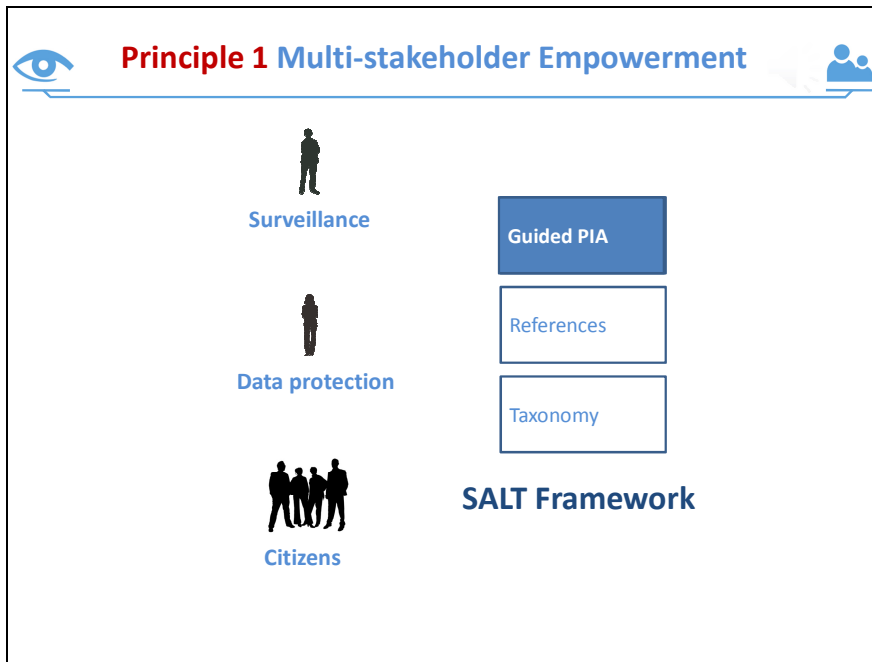
**Surveillance
Systems**

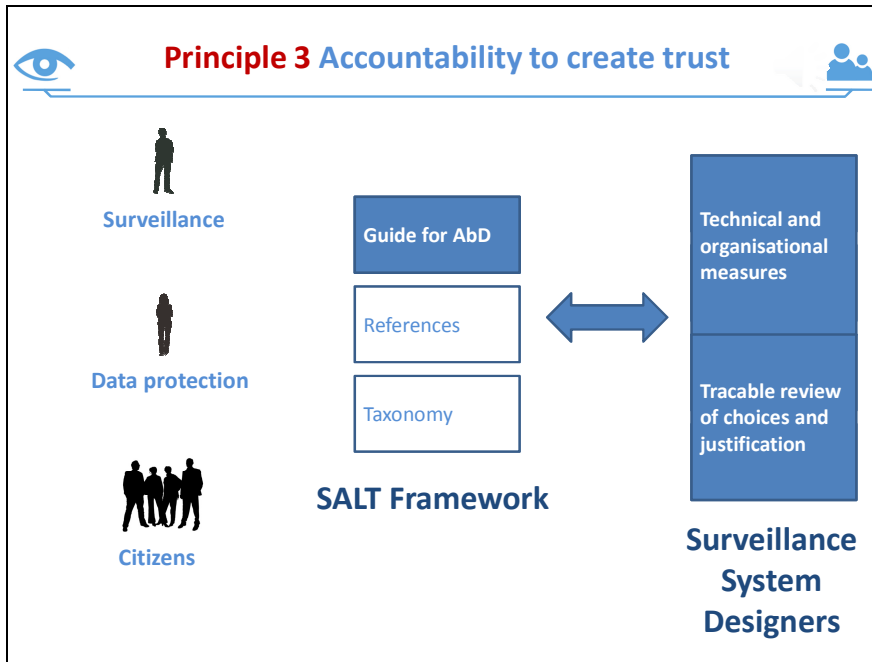
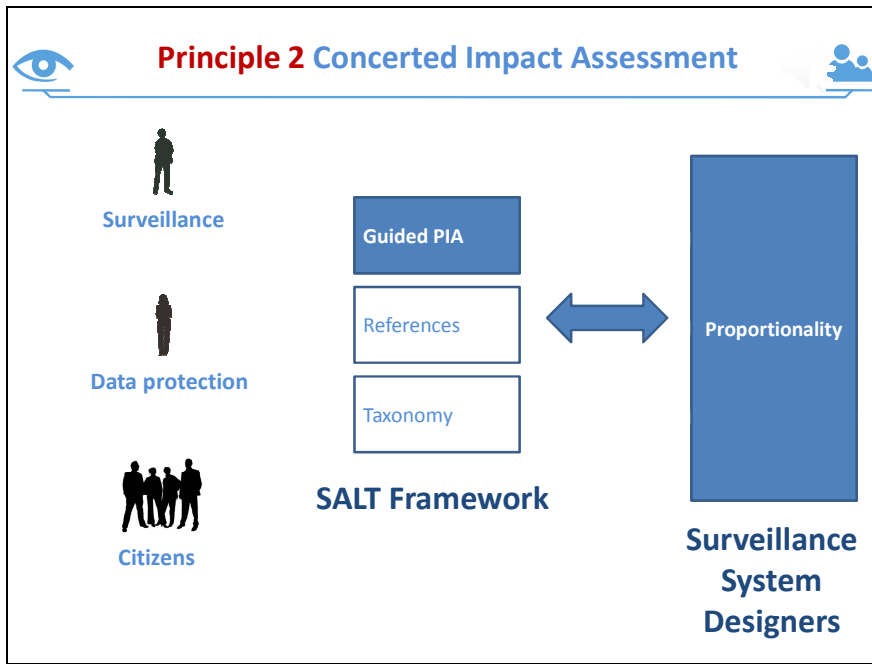


PARIS Approach

<p>Repository of knowledge: SALT Framework</p>	<p>Socio-contextual</p> <p>ethicAI</p> <p>Legal</p> <p>Technical</p>
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Conclusion



- PARIS approach: SALT frameworks
- PARIS further contributions
 - Toolset based on modelling techniques
 - Use case on biometrics (use of body prints for securing access to buildings)
 - Use case on video archive search

For more information, visit the PARIS website:

www.paris-project.org

Project Co-ordinator

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Technical Co-ordinator

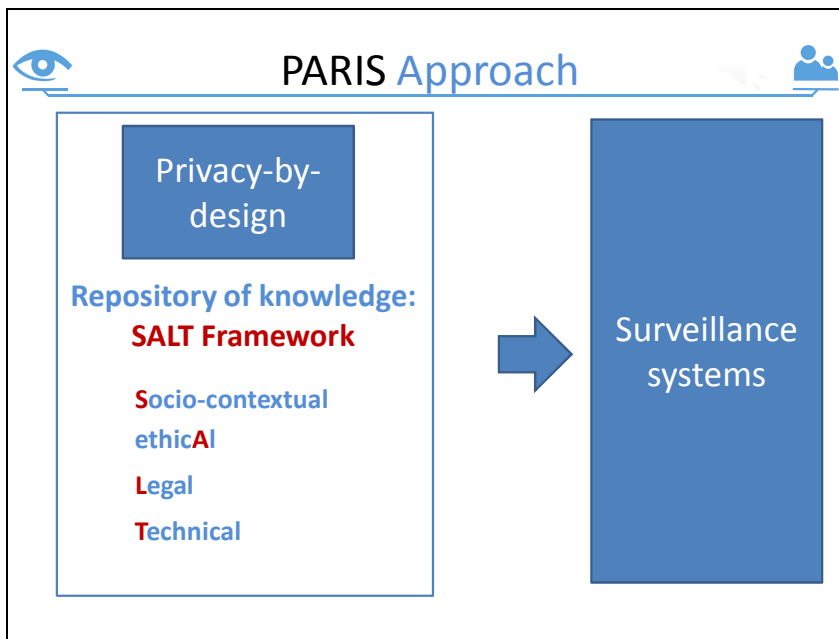
Christophe Jouvray (Trialog)

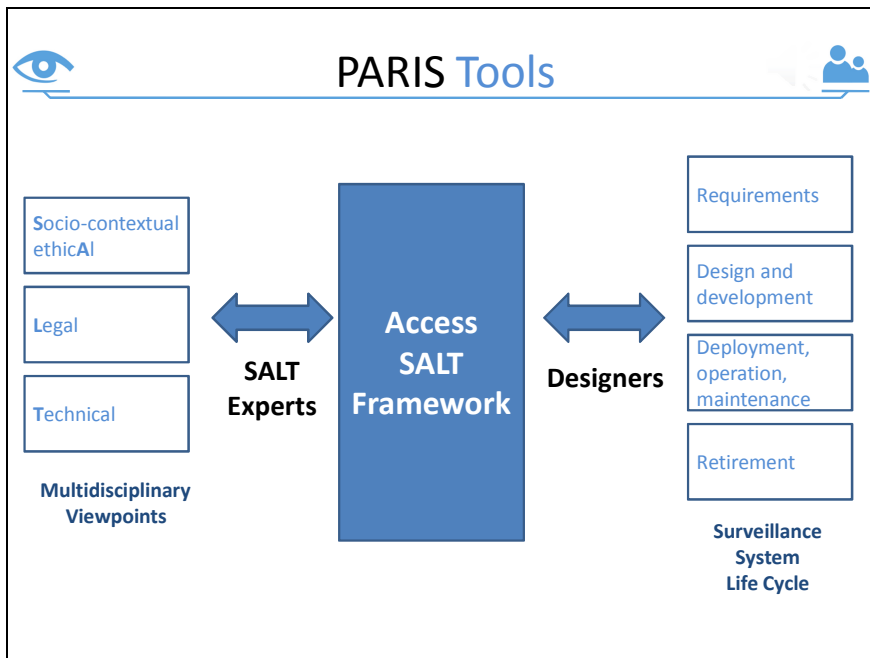
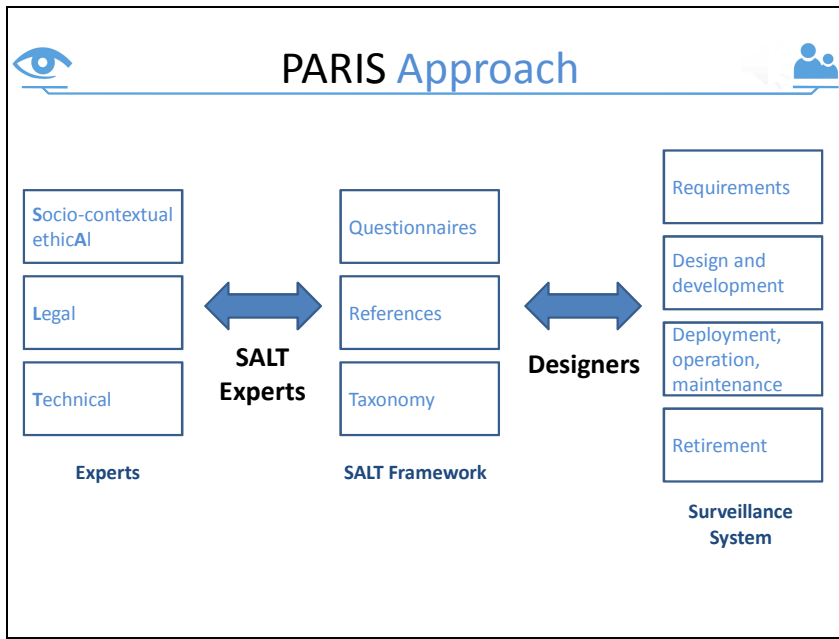
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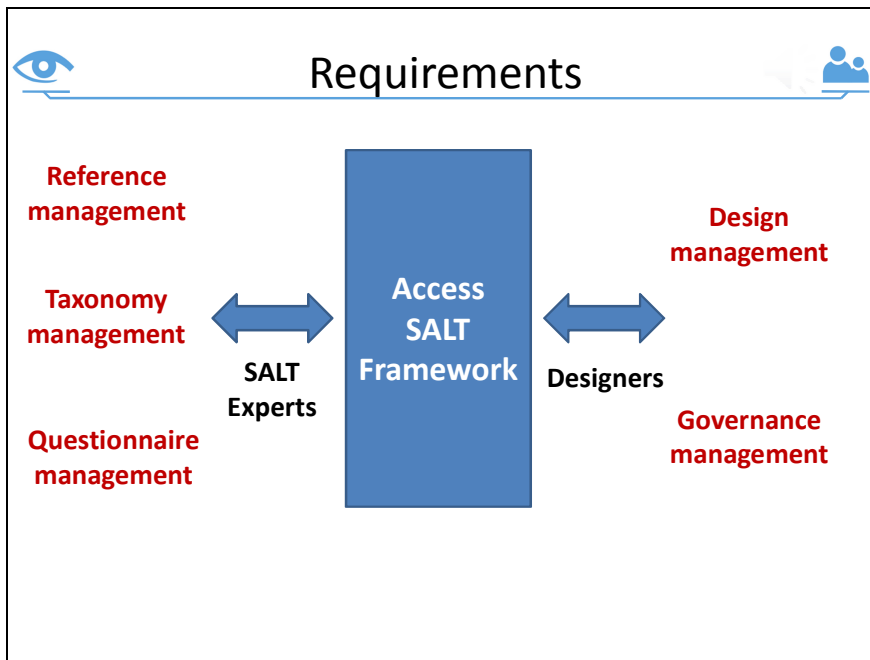
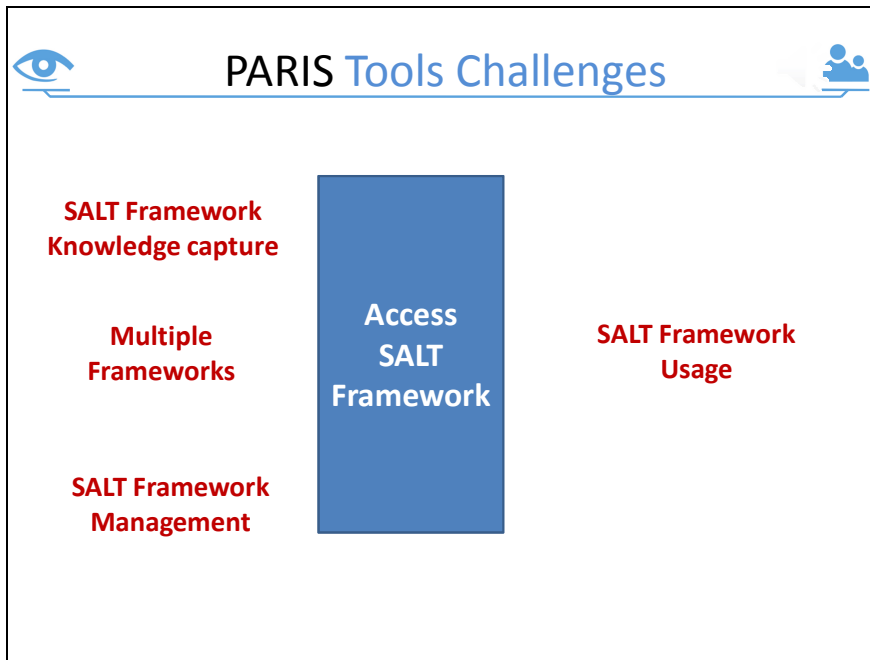


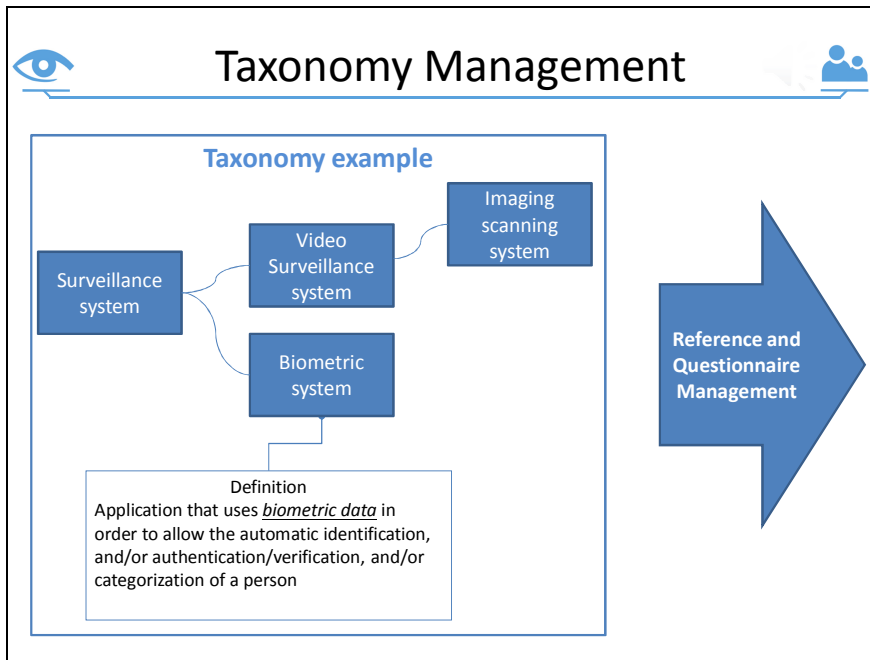
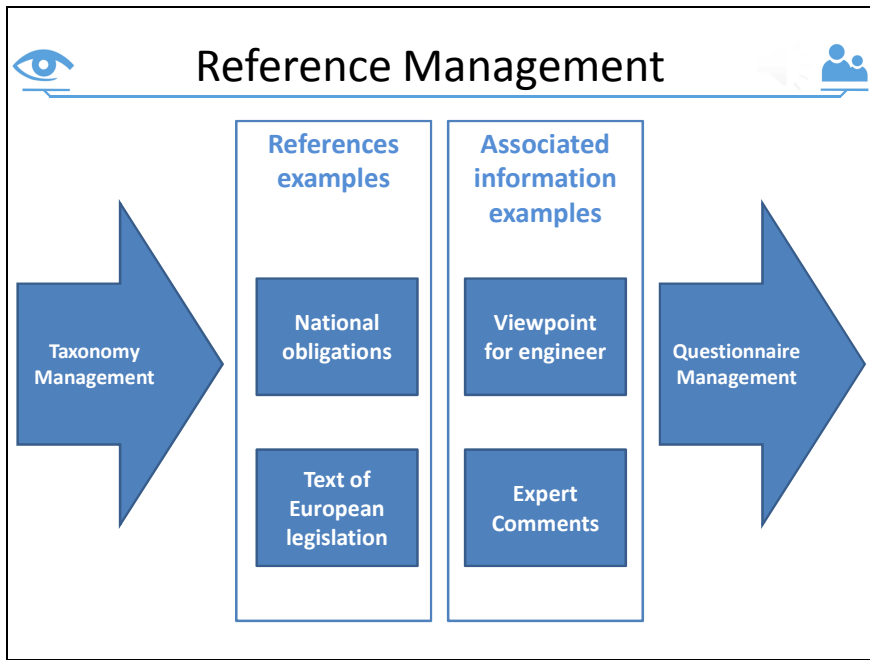
6.2 Tools Storyboard

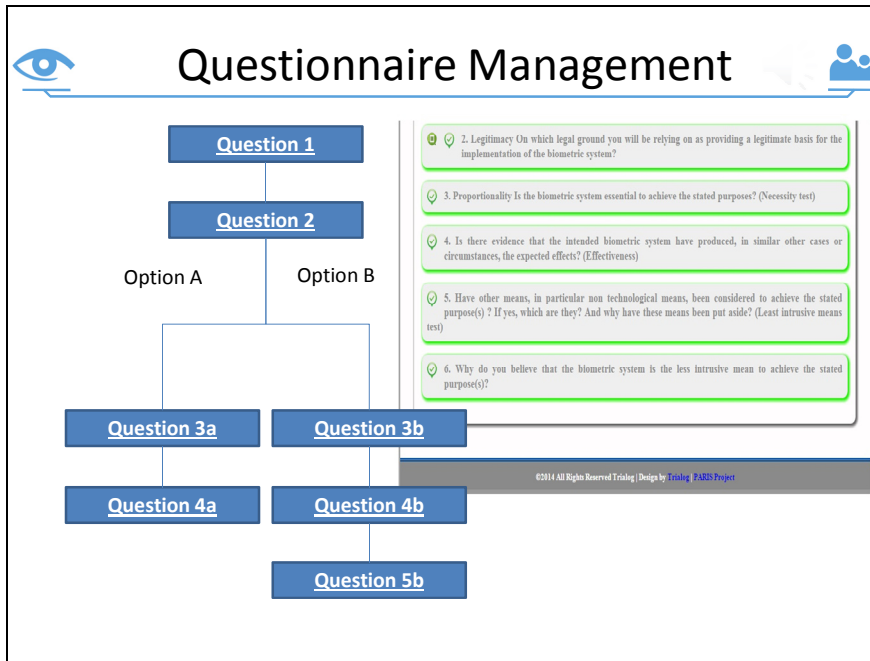
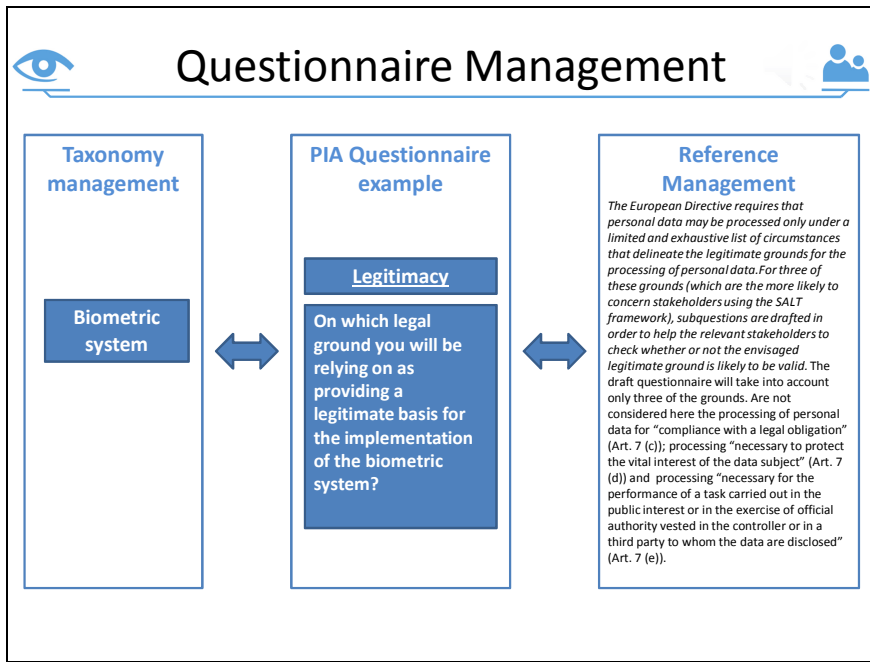
The cover features logos for TRIALOG, Inria, UMa (Universidad de Málaga), crids (Centre de Recherche Informatique Droit et Société), KU LEUVEN (Minds Security Lab), MIT (Intelligence for Tomorrow Today), VISUAL TOOLS, and THALES. The title 'PrivAcy PReserving Infrastructure for Surveillance' is prominently displayed. Below the title is a graphic of the Eiffel Tower with an eye and a person icon, and the word 'PARIS' in large letters. The European Union flag is in the bottom right corner.

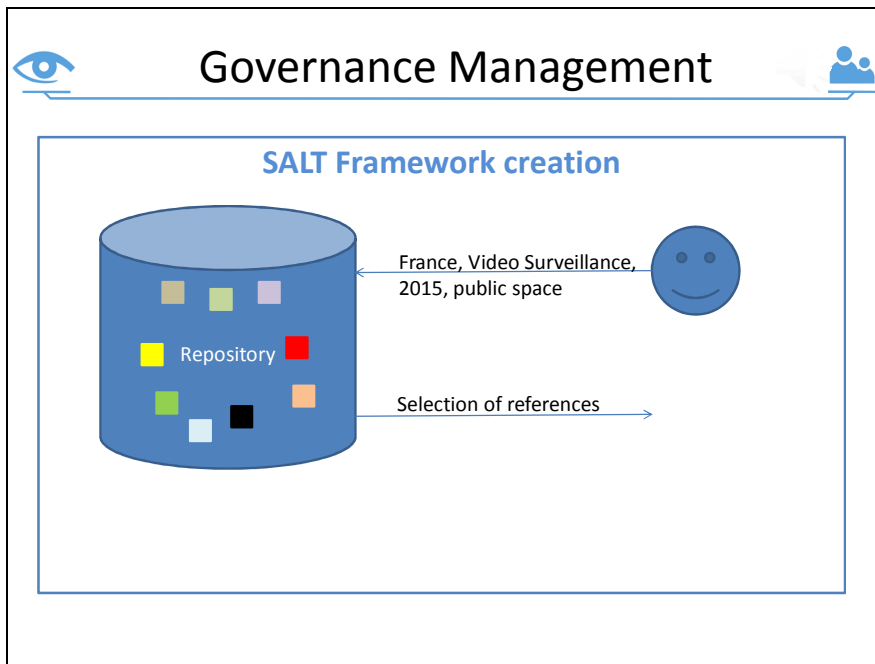
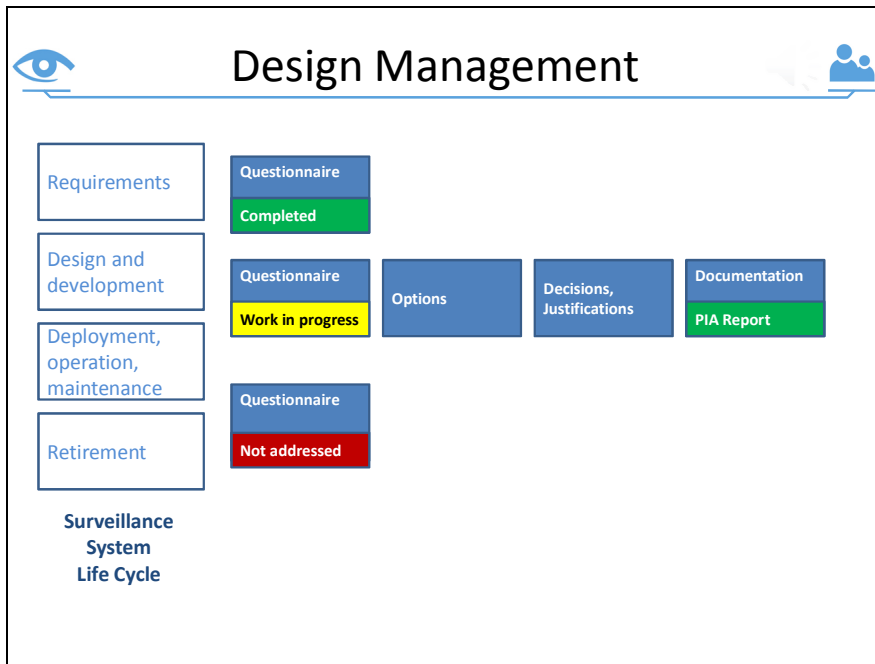


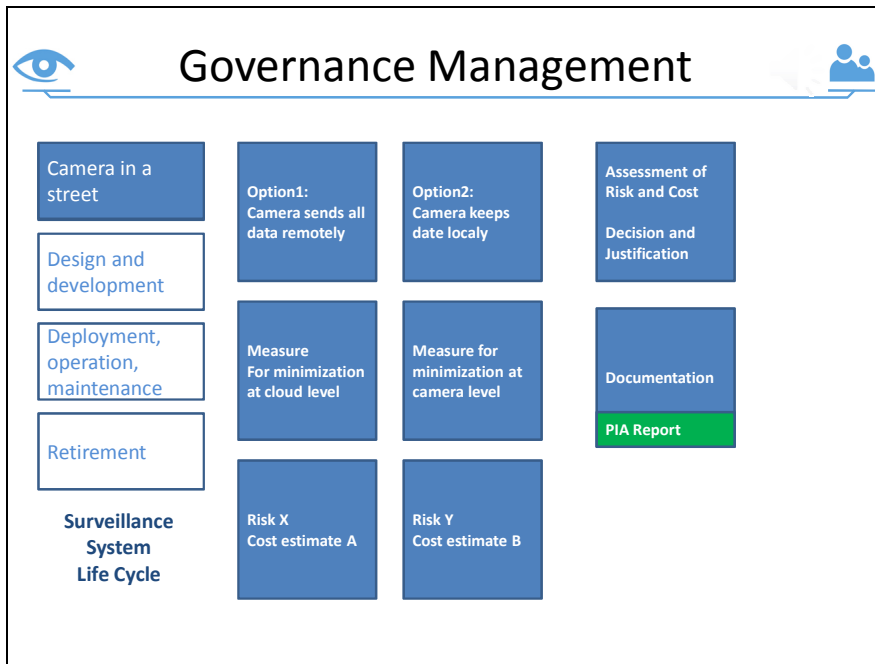












For more information, visit the PARIS website:
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