



# Overview of the Privacy Reference Framework for Security Technology (PRFST)

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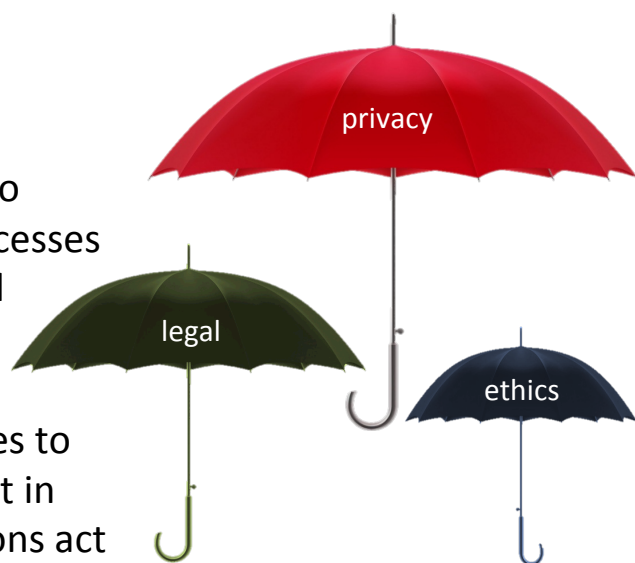
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## What is PRFST?

- PRFST (Privacy Reference Framework for Security Technology) is a framework to support decision-making processes focusing on privacy, legal and ethical considerations
- Aim: methodology for DSS to compare security technologies to identify the best one to invest in
- Aforementioned considerations act as an umbrella which provides guidance and reference to the methodology

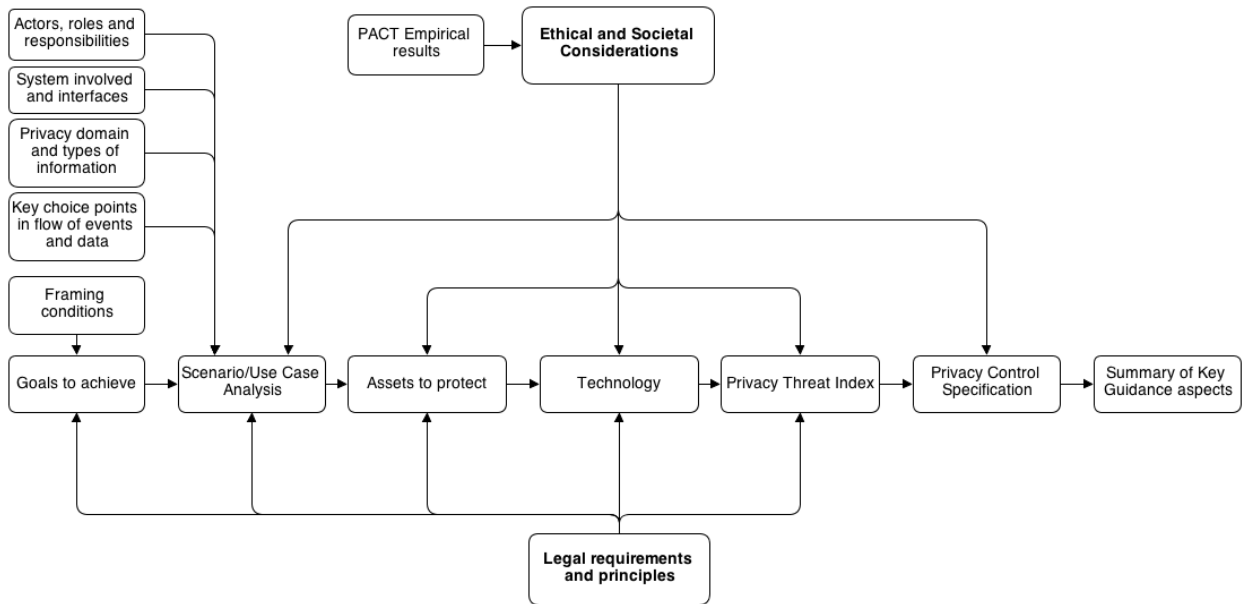


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## PRFST steps overview



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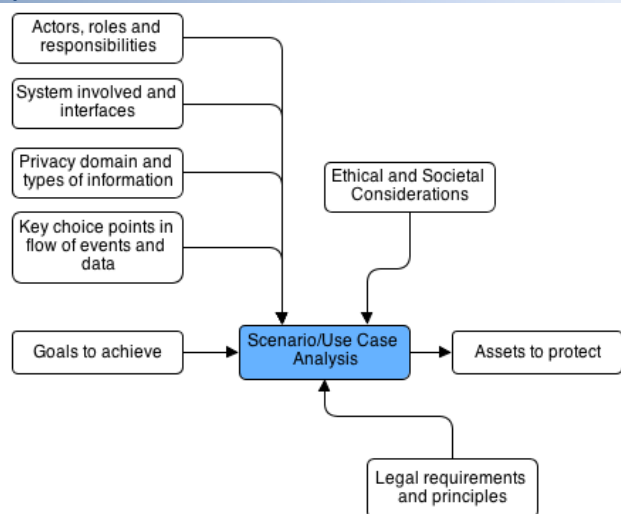
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## Step 1: Analysis of the scenario/use case

- Detailed description of the context of the use case → to be updated whenever needed)
- Will be influenced by framing conditions (budget limitations, ongoing initiatives, security policies, procedural rules..)
- Modeled following *ethical* and *societal* considerations and in compliance with *Legal* principles.
- *Focus on what should be satisfied in terms of privacy and security goals rather than how to achieve it.*



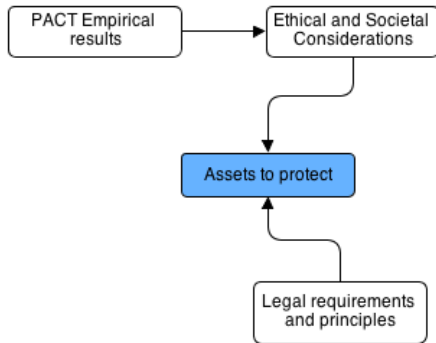
Actors, roles and responsibilities	Systems involved and interfaces	Privacy domain & type of info	Key choice points
-human -non-human	-pre-existing systems -newer technologies	Information involved	Critical points

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## Step 2: Assets to protect



- Identification of assets to protect with the security system.
- Assets in a privacy framework are things such as personal data, information, values, (legislative and non-legislative) norms, principles...



→ All personal data should be considered an asset to protect considering privacy targets contained in the Data Protection Directive

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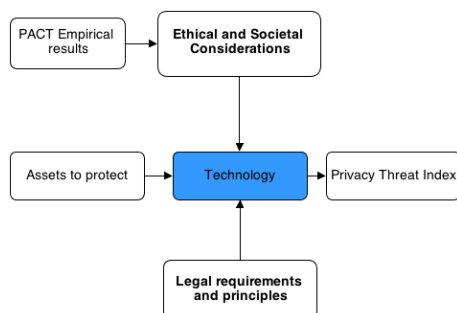
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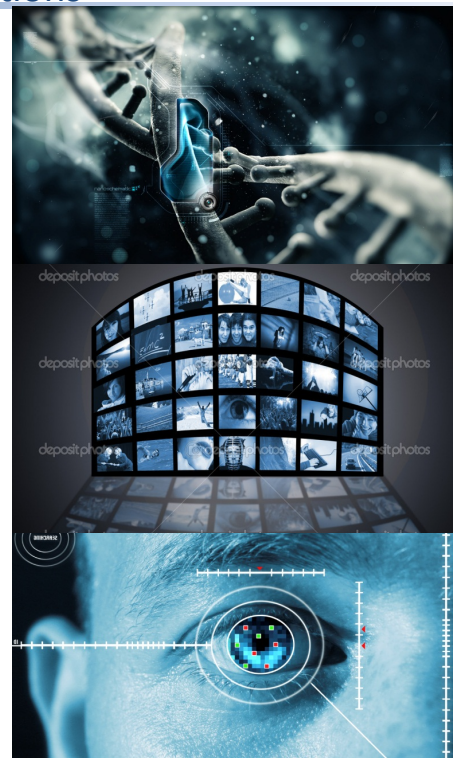


## Step 3: Assessment of technological solutions

- Identify the potential technological solutions to use
- PACT Technology Taxonomy maps data protection targets and privacy risks to main technological families → 7 families comprising 41 tech. groups

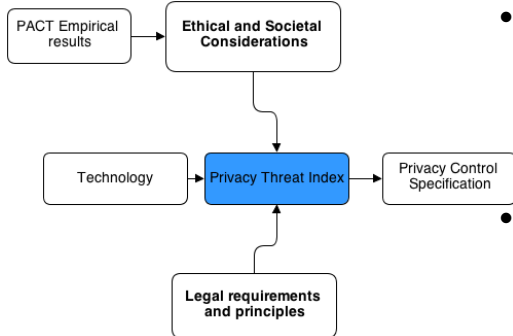


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## Step 4: Privacy Threat Index processing (PTI)



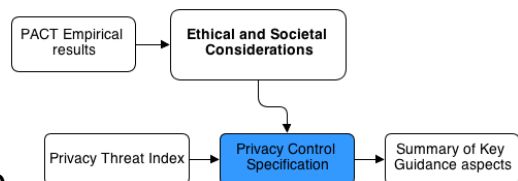
- Identify a list of the privacy threats that may arise from security policies chosen & categorise them according to their potential impact on citizens
- **Threat:** Possible violation of norms, rules, principles, fundamental rights or whatever other element related to privacy under the Ethical, Societal and Legal umbrella
- **Likelihood:** probability of a privacy violation actually happening through this threat.
- **Impact:** the consequence result in case the threat does occur (legal, economic, ethical...)

Threat Likelihood	Impact		
	Low	Medium	High
High			
Medium			
Low			



## Step 5: Identification of the controls to apply

- Controls provide technical and procedural approaches to mitigate privacy threats.
- Identify suitable technical controls to mitigate the previously identified risks, e.g. surveillance technologies, PETs...
- 8 controls identified by the PMRM standard (Privacy Management Reference Model and Methodology)



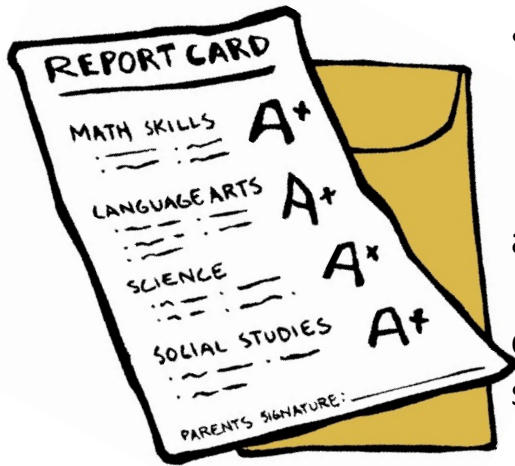
<i>Core Policy Services</i>	<i>Privacy Assurance Services</i>		<i>Presentation &amp; Lifecycle Services</i>
Agreement	Validation	Certification	Interaction
Usage	Security	Enforcement	Access





## Step 6 - Reporting, guidelines and recommendations

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- Provide decision/policy makers useful information to select the proper option in terms of privacy
- Compiles in a report all the information collected throughout the PRFST analysis.
  - Info about the use case, assets, alternatives...
  - Will display PTIs generated, thus covering all threats related to all security solutions.
  - Decision tree to compare alternatives based on PTIs



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**Demo of current version of DSS prototype available in ground floor-aula until 15:30!**

**THANK YOU FOR YOUR ATTENTION!**

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