

Objectives

WITDOM aims at producing a framework for end-to-end protection of data in untrusted and fast-evolving ICT-based environments.

WITDOM puts particular focus in scenarios requiring data outsourcing, where new threats, vulnerabilities and risks require end-to-end security solutions that will withstand progress for the lifetime of applications they support.

The WITDOM framework shall use security-and-privacy-by-design methodologies, and advance the state of the art in effective protection of personal and sensitive data in the following areas:

- Privacy enhancing techniques, perturbation mechanisms and privacy metrics
- Privacy-preserving cryptographic techniques supporting encrypted processing
- Cryptographic techniques for integrity and verifiability of outsourced processes
- European legal landscape.

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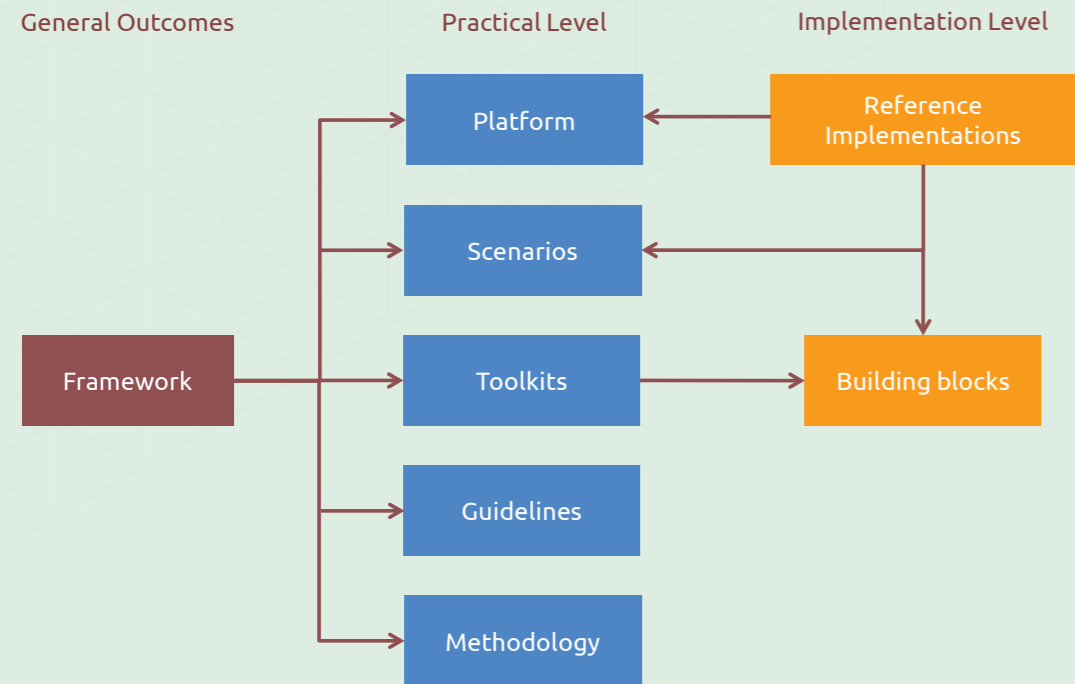


Empowering privacy and security
in non-trusted environments

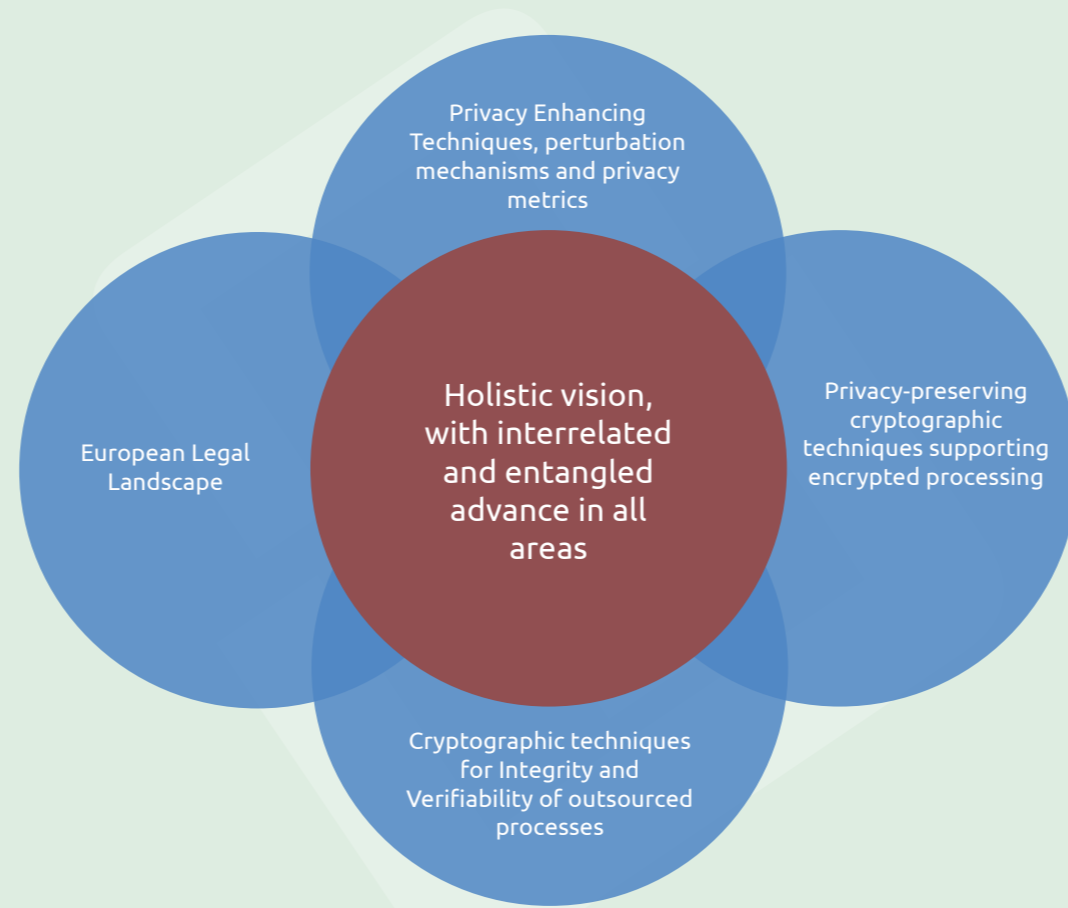
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Main Outcomes



Main areas of innovation



Scenarios

The WITDOM framework will be instantiated and validated in two privacy-sensitive application scenarios:



e-Health

Genetic/proteomic databases protection, shared for large-scale research analyses and outsourced individual clinical analyses.

Financial Services

Protection of large-scale outsourced financial data storage and processing (financial risk calculation, fraud detection,...).

