

Introducing PRIVIDEMA:



PRIVIDEMA

Privacy preserving identity management for digital wallet and secure data sharing and processing for cyber threat intelligence data

November 2024



The Horizon Europe Project “PRIVIDEMA” represents an industry-driven initiative to advance privacy-preserving technologies in the application areas of cyber threat intelligence, data protection, and identity management. This multifaceted project operates across various research and innovation maturity levels, with the overarching goal of introducing more robust, user-friendly and scalable privacy and security technologies for the European ecosystem. Key components of PRIVIDEMA include:

1. Development of open-source tools, hosting networking events, and initiation of capacity-building efforts to democratize technology access and empower cybersecurity professionals.
2. Advancement of homomorphic encryption capabilities, implementation of hardware acceleration methods, and improvement of Fully Homomorphic Encryption (FHE) usability.
3. Creation and demonstration of a prototype European identity wallet featuring issuer and relaying party functionalities.
4. Development and demonstration of a prototype European privacy-preserving cyber threat data processing system, with real-world testing and validation of innovative technologies.

Aligned with the objectives of Horizon Europe, PRIVIDEMA actively contributes to increased cybersecurity, data and network protection, and the establishment of robust digital infrastructures. The project distinguishes itself through its commitment to supporting SMEs as well as promoting open-source development, cross-disciplinary collaboration, and privacy-by-design principles. The solution-oriented approach positions PRIVIDEMA as a pivotal force in advancing cyber-resilient digitalization and the data economy in Europe. PRIVIDEMA's connection to various European strategic initiatives underscores its relevance, with a clear emphasis on real-world applications, innovation

beyond the state-of-the-art, and a strategic trajectory toward market-ready solutions.

PRIVIDEMA is a three-year project funded by the European Union (Grant requested 3,133,965.00 EUR), which started November 1st, 2024. The consortium consists of seven partners, including highly experienced industrial partner (Thales DIS France SAS) and SMEs (Technikon, Tune Insight, iDAKTO SAS), as well as high ranked academic partners (Sabanci University, University of Turku) and a research organisation (The French Alternative Energies and Atomic Energy Commission (CEA)).

About the coordinator: Technikon is a private research service company in Austria. Technikon's range of expertise makes it Europe's leading private company for technical requirements, as well as the coordination and dissemination of technology-based collaborative European research projects.

About the technical leader: Tune Insight will take on the role of technical leader, leveraging its expertise in privacy-preserving computation—particularly in fully homomorphic encryption and federated learning—to enable the secure processing and sharing of sensitive data.

For more information about the PRIVIDEMA project, visit our website or contact the project coordinator:

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