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PRIVIDEMA

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

PRIVIDEMA enters its second project phase after a productive first reporting period

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Duration

36 Months

11/2024 - 10/2027



Consortium

7 Partners

5 countries



Budget

€ 5.3 Million

€ 3.1 EU-funded

Message from the Project Management Team:



prividema.eu



prividema-project

As PRIVIDEMA reaches Month 21, the project has completed its first reporting period and entered the next phase of implementation. During the first 18 months, the consortium focused on establishing the project foundations, defining technical requirements and architectures, preparing the use case environments, and launching communication and dissemination activities.

Several work packages reached their planned end in Reporting Period 1, while new activities started in Month 19 to continue the development, integration, exploitation and demonstration of the project results. The second phase will build directly on the technical and organisational foundations established so far. The first period also concluded with the successful achievement

of all planned milestones and the delivery of the corresponding key project deliverables.

In June 2026, the consortium also held its first online review meeting with the granting authority (ECCC) and external

experts. The feedback received during the meeting was very encouraging, while the recommendations provided will help the consortium further strengthen KPI reporting, deliverable documentation and the traceability of achieved results.

Consortium meetings along the way



On 18–19 May 2026, the PRIVIDEMA consortium met in Villach, Austria, hosted by project coordinator TECHNIKON, to review progress and prepare for the next phase of the project. Partners presented key achievements from the first 18 months, including completed deliverables, technological advancements, and activities supporting the upcoming project review. As PRIVIDEMA enters its second phase, discussions focused on new and ongoing work packages, future developments, updated timelines, and project objectives.

Dedicated technical sessions explored privacy-by-design use cases, secure data-sharing approaches, and the development of Fully Homomorphic Encryption (FHE) libraries. The meeting concluded with a review of key outcomes and action points, reinforcing the consortium's strong collaboration and readiness to drive project innovation forward in the coming months.

Highlights from Reporting Period 1

Strong collaboration and project foundations

During the first reporting period, PRIVIDEMA established a robust project management and collaboration structure. The consortium held the kick-off conference call, the face-to-face kick-off meeting in Paris, further in-person meetings in Lausanne and Villach, and regular monthly technical progress calls. These activities supported continuous coordination, technical exchange and alignment across partners.

Progress towards open-source privacy-preserving technologies

A major technical achievement was the first open-source release of the [PRIVIDEMA FHE software library](#). The initial release provides the basis for Fully Homomorphic Encryption-based computation and future development of advanced privacy-preserving functionalities.

The project also made progress in hardware acceleration, including GPU acceleration support for key cryptographic operations and promising performance gains for selected primitives.

Digital identity wallet use case

For the digital identity use case, the consortium defined the architecture and specifications for a privacy-preserving biometric authentication solution aimed at enabling secure access control, demonstrated in a digital wallet ecosystem. The first demonstrator environment includes a mobile wallet application, backend authentication services, and credential issuer and verifier components. This provides the technical basis for the later integration and evaluation of privacy-enhancing technologies.



Cyber Threat Intelligence use case

For the Cyber Threat Intelligence use case, PRIVIDEMA defined the requirements, specifications and architecture for a secure data-sharing and analytics service. The use case focuses on analysing Software Bills of Materials to identify whether listed software components are affected by vulnerabilities. An initial functional version of the service has been developed and will serve as the baseline for integrating Fully Homomorphic Encryption, Federated Learning and Differential Privacy in the next project phase.

Dissemination, communication and stakeholder engagement

Communication and dissemination activities also advanced during the first reporting

period. The project website, LinkedIn channel, videos, interviews, factsheets and conference participation have supported visibility and stakeholder engagement. Dissemination activities are now moving from general awareness raising towards more targeted communication of technical and scientific results.

The latest paper:

Privacy-Preserving Identity Management and Software Bill of Materials Vulnerability Detection: Practical Use Cases from the PRIVIDEMA Project. In: Renaud, K., Wendzel, S., Heinemann, A. (eds) *Cybersecurity. EICC 2026. Communications in Computer and Information Science*, vol 3012. Springer, Cham.

[Link to Springer](#) / [Link to eprint](#)

KPI progress at a glance

Area	Progress after Reporting Period 1
Collaboration and meetings	Project meetings and monthly technical calls established and ongoing.
Open-source FHE library	First open-source release published, providing the basis for further FHE development.
Hardware acceleration	Initial GPU acceleration implemented with promising performance gains for selected operations.
Digital wallet use case	Architecture and first demonstrator environment prepared.
CTI use case	Initial baseline service developed for future privacy enhancing tools integration.
Dissemination	Website, LinkedIn, videos, interviews, factsheets and first newsletter published.
Review follow-up	KPI documentation and selected deliverables to be further strengthened.

Deliverables completed during Reporting Period 1

A major result of the first reporting period was the submission of all 15 planned deliverables. These documents capture the technical, organizational, data management,

dissemination and validation foundations established during the first 18 months of PRIVIDEMA.

Open science and public deliverables

Following the review process and the official acceptance of the reporting package, the consortium plans to publish the public deliverables via the PRIVIDEMA website and the project's Zenodo community.

Looking ahead

As PRIVIDEMA enters its second project phase, partners are continuing the integration of privacy-preserving technologies into the project's two use cases. Current developments focus on the next release of the open-source prividema-lib software library, including new encoding and decoding functionalities, support for different cryptographic schemes such as TFHE, BFV, CKKS and scheme switching techniques, and the integration of the first Private Information Retrieval (PIR) capabilities.

At the same time, work is progressing on advanced hardware acceleration technologies. Building on the GPU-enabled infrastructure developed during the first reporting period, project partners are extending GPU support for key cryptographic building blocks and preparing the migration of computationally intensive workflows, such as privacy-preserving information retrieval, to high-performance execution environments.

For the digital identity use case, future activities will focus on the deployment

and evaluation of the privacy-preserving biometric authentication solution for secure environment access, including confidence analysis, GDPR compliance assessment, and risk analysis. These assessments are limited to the biometric authentication workflow and do not extend to the digital identity wallet or identity attributes, as PID and related data used in this project are synthetic and therefore outside the assessment scope." In parallel, the Cyber Threat Intelligence use case continues to evolve through the integration of encrypted Software Bills of Materials (SBOMs) and additional privacy-preserving analytics capabilities.

Beyond the technical developments, the consortium will continue strengthening dissemination, exploitation and collaboration activities. Planned actions include cooperation with related European projects, preparation of scientific publications, engagement with SMEs and stakeholders, and the organisation of future community-building activities around privacy-preserving technologies.



Upcoming Events

All past and upcoming events can be found on the PRIVIDEMA official webpage:

<https://prividema.eu/events/>



PRIVIDEMA



prividema.eu



[prividema-project](https://prividema-project.com)

Project Facts

Consortium: 7 partners (5 countries)

Project Coordinator: Martina Truskaller (Technikon)

Technical Leader: Mariya Georgieva (Tune Insight SA)

Project number: 101167964

Project website: <https://prividema.eu/>

Project start: 1st November 2024

Duration: 36 Months

Total cost: EUR 5 311 339,36

EC contribution: EUR 3 133 964,75



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