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HARPOCRATES NEWSLETTER

The past year in the HARPOCRATES project was marked by continued technical progress, development of demonstrators, and active participation in dissemination and engagement activities. Below is an overview of key developments across meetings, publications, demonstrators, and events.

HARPOCRATES is an EU-funded project with 13 partners from 9 countries, developing privacy-preserving technologies for secure data sharing and analysis in healthcare, cybersecurity, and public services.

Visit website



HARPOCRATES Team Paris, France

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Plenary Meeting in Paris (November 2024)

The HARPOCRATES consortium gathered in Paris for a **full** plenary session to assess project progress and align final contributions across work packages. The meeting focused on technical validation, integration of demonstrator platforms, and wrapping up outstanding deliverables.

An **internal exploitation workshop** was also held during the plenary. Partners discussed exploitation strategies for project outcomes, including post-project sustainability, partner-specific exploitation plans, and potential commercialization or opensource release of selected tools.

Research Highlights

Over the past year, HARPOCRATES partners have advanced the state of the art in privacypreserving technologies through several key publications. These results address technical challenges in secure computation, federated learning, and functional encryption.

HELIUM: Scalable MPC Among Lightweight Participants and Under Churn

This new publication presents a scalable Multi-party Computation (MPC) protocol suitable for lightweight participants operating under churn. The work addresses scenarios where participant nodes may dynamically join or leave during computation, improving resilience and efficiency of privacy-preserving protocols.

Read more

Privacy-Preserving Hyperparameter Tuning for Federated Learning

This research proposes a method for tuning hyperparameters in federated learning while preserving the privacy of local datasets. It provides enhanced model performance without compromising individual data privacy in distributed environments.

Read more

SPADES: Functional Encryption for Selective and Partial Decryption

Presented at SecureComm 2024, this method supports fine-grained access to encrypted data. It allows for selective decryption of specific attributes or segments, aligning with scenarios requiring minimal disclosure.

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Demonstrator Progress



Demonstrator 1 – Threat Intelligence Sharing Between **Local Authorities**

A cross-border platform was finalized to support threat intelligence sharing between public authorities in Aragon (Spain) and Veneto (Italy). The system enables structured sharing of cybersecurity-related data while maintaining data confidentiality and access control.

Demonstrator 2 – Collaborative Use of Machine Learning in **Sleep Medicine**

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Deployed in collaboration with healthcare institutions, this demonstrator supports privacy-preserving collaboration in clinical research. The platform enables joint machine learning across sleep datasets while ensuring sensitive data remains locally protected.

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Dissemination & Stakeholder Engagement

Throughout the year, HARPOCRATES participated in key events, workshops, and webinars to share project outcomes, engage with stakeholders, and contribute to broader discussions on privacy, Al, and data security.



Building Trust in Al: Highlights from the European Al & Cybersecurity CrossTalk Event

Co-funded by the European Union UK Research and Innovation

European AI & Cybersecurity Network CrossTalk

(October 22, 2024 – Brussels)

Antonis Michalas (Tampere University) represented HARPOCRATES at this European-level event, focusing on trustworthy and secure AI infrastructures. The project's contributions to privacypreserving computation and encrypted data analytics were presented as examples of practical, scalable solutions.

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InCyber Forum 2025

(April 1–3, 2025 – Lille, France)

HARPOCRATES was featured at one of the largest European forums on cybersecurity. The project team engaged with security stakeholders and showcased solutions for encrypted computation, federated analysis, and data trust in AI ecosystems.

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Co-funded by the European Union UK Research and Innovation

NESTLER Workshop on Privacy & Security in Edge AI

(May 27, 2025 – Athens, Greece)

Javier Sancho (SARGA) and Luis Búrdalo (S2 Grupo) will present HARPOCRATES insights during NESTLER workshop, contributing to a session on privacy in AI at the edge. The focus will be on architecture design and demonstrator use cases.

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AI & Security Webinar

(April 30, 2025 – Online)

Co-organized by HARPOCRATES alongside ELASTIC, RIGOUROUS, and PREDICT-6G (with support from CUSTODES, FAITH, and 6G-Cloud), the webinar brought together experts to discuss privacy, secure AI, and infrastructure trust. HARPOCRATES contributions centered on privacy-enhancing technologies in Al training and decision systems.

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Final Steps and Future Outlook

As the project enters its closing stage, the consortium is finalizing:

- Technical deliverables and public reports
- Demonstrator validations and integration feedback
- Exploitation planning (including joint and individual partner plans)
- Dissemination via Zenodo, website and social media
- Potential contributions to open-source and standardization efforts

More updates and all publications are available at project website

Read more

Keep in touch with us

Stay updated on HARPOCRATES news, results, and upcoming events





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