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Factsheet 06: Fully Homomorphic Encryption (FHE)

Keep data encrypted—even while you compute on it



The Problem

Conventional encryption protects data at rest and in transit but requires decryption for processing—creating a window of exposure.

PRIVIDEMA's Contribution

PRIVIDEMA advances FHE performance, develops open-source libraries, integrates it into wallet and CTI workflows, and publishes benchmarks/architectural patterns to guide adopters.



The Solution

FHE lets authorised parties compute directly on encrypted inputs and obtain encrypted results that only the owner of the secret key can decrypt. Processing no longer requires exposure.

European Impact

A step-change for privacy-preserving analytics in cloud and shared environments—turning “privacy and utility” into “privacy with utility”.



Consortium
7 Partners
5 Countries



Budget
€ 5.3 Million
€ 3.1 EU-funded



Duration
36 Months
11/2024 - 10/2027



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