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Project
Coordinated by: **ΞXUS**

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SCAN FOR MORE

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A SCALABLE AND PRACTICAL PRIVACY-PRESERVING FRAMEWORK

MISSION

Although several technologies have been developed to facilitate the processing of data while preserving privacy, they have not made significant inroads into real use cases, due to several reasons. ENCRYPT develops a scalable, practical, adaptable privacy preserving framework, allowing researchers and developers to process data stored in federated cross-border data spaces in a GDPR compliant way. Within this framework, a recommendation engine for citizens and end-users will be developed, providing them with personalised suggestions on privacy preserving technologies depending on the sensitivity of data and the accepted trade-off between the degree of security and the overall system performance.

OBJECTIVES

ENCRYPT will address the aforementioned challenges by providing researchers and service providers working with personal and other sensitive data, with a scalable, practical, adaptable privacy-preserving framework facilitating the GDPR-compliant processing of such data stored in federated cross-border data spaces. degree of security and the overall system performance.

1 To improve the applicability and performance of privacy-preserving (PP) technologies towards GDPRcompliant, cross-border federated processing of personal and other sensitive data, developing a toolset of scalable, practical, and reliable privacy-preserving technologies.

2 To improve the user-friendliness of PP technologies facilitating the identification, understanding, selection, and adoption of PP technologies by all actors involved in the personal data collection and processing.

3 To foster, and inherently support interoperability for privacy-preserving processing of similar data types across organisations, and across sectors.

4 To promote GDPR-compliant common European Data Spaces and facilitate the exchange of cyberthreat intelligence, liaising with relevant initiatives and projects with a focus on standardisation.

5 To ensure the applicability of the developed solutions, co-designing them with end-users, and validating them in realistic use cases including federated data infrastructures with personal data.

6 To strengthen the ecosystem of open-source developers and researchers of privacy-preserving solutions disseminating, and exploiting open-source project results, as well as upskilling researchers.

USE CASES

Health domain:
Cooperative Oncology

Cyber threats domain:
CTI Sharing

Fintech domain:
Data Analytics

PROJECT INFO

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