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# encrypt

TECHNOLOGIES  
AND  
INNOVATIONS

## Privacy-Preserving Technologies

ENCRYPT innovates by prototyping scalable, practical and adaptable privacy preserving technologies. Our framework is designed to demonstrate how GDPR compliant data processing can be enhanced in cross-border, federated environments, enabling organizations to secure personal information effectively. With an emphasis on user accessibility, our proposed solutions support data protection, enable interoperability and secure data spaces across sectors.

## Functionalities and Modules

ENCRYPT's functionalities prototype tools for privacy-preserving data management, including encryption, risk assessment, secure computation, and personalized recommendations, demonstrating how data governance and informed decision-making can be enhanced.

## ENCRYPT INNOVATIONS

- **Fully Homomorphic Encryption**  
Enables computations on encrypted data without decryption, ensuring data remains secure during processing.
- **Trusted Execution Environment**  
Provides a secure processor area to protect data and computations from unauthorized access.
- **Differential Privacy**  
Adds controlled noise to data, enabling privacy in analytics.
- **Hybrid Protection Services**  
Combines encryption techniques for a versatile and secure data protection.
- **Hardware Acceleration**  
Optimizes processing speed for privacy-preserving tasks, making security measures faster and more efficient.
- **Pre-processing Tool**  
Prepares and sanitizes data for secure analysis, reducing risks of exposing sensitive information.
- **Recommendation System**  
Offers tailored privacy-preserving technology suggestions based on data sensitivity and security needs.
- **Knowledge Graphs**  
Creates interconnected data maps to enable contextual understanding and secure knowledge discovery.
- **Risk Assessment Tool**  
Evaluates potential data security risks, enabling proactive protection in data processing environments.

## KEY TECHNOLOGIES



## PROJECT INFO

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- End date: 30 June 2025
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SOFTWARE MONOPROSOP  
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EVTHINIS