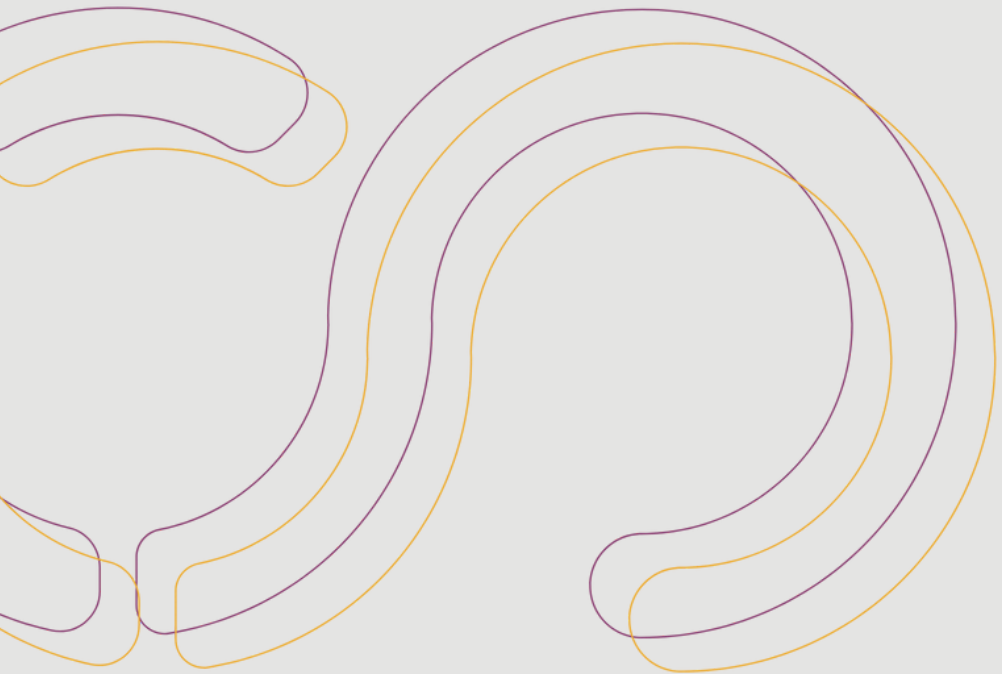# eosc | ◆ TITAN

A software platform solution for **confidential data collaboration & secure and privacy-preserving data processing**

TITAN proposes to develop secure and trustworthy confidential data processing and sharing capabilities, and demonstrate them in the EOSC ecosystem. The project emphasises privacy preservation and AI technological solutions in line with existing ethical, regulatory and legal EU boundaries.

By being under the umbrella of the EOSC ecosystem, **TITAN** will take advantage of a commonly created brand, already established networks of contacts and working groups, and close collaboration with several other projects.

To promote community adoption of **TITAN**'s open-source software artefacts, the solution will be practically demonstrated in several vertical cross-border scenarios - notably in the public administration and healthcare sector.

Collect legal, technical, and architectural requirements and define a platform architecture for secure sharing of sensitive data and publishing anonymised data sets in the EOSC IF

Develop secure data sharing and auditing mechanisms for sensitive data, including secure data zones, data access control, and end-to-end data protection (storage – transfer – processing)

Develop an end-to-end secure data processing framework for collaborative and privacy-preserving Machine Learning (ML) using Trusted Execution Environments

Implement confidential mechanisms, algorithms, and tools with cloud infrastructure platforms and the EOSC IF, and validate solutions in sensitive data-driven use cases (government and healthcare)

Disseminate and promote the solutions for data governance and stewardship through collaboration with EOSC Partnership initiatives, standardisation, and integrating with the EOSC infrastructure.

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