

POSEIDON

PROTECTION AND CONTROL OF SECURED INFORMATION BY MEANS OF A PRIVACY ENHANCED DASHBOARD

PROJECT GOAL

In the current scenario of widespread use of digital services, and despite the overall awareness of legal requirements by the entities that process data, end-users remain worried about data privacy, data protection, digital identities and data ethics

POSEIDON aims at developing a transparent ecosystem for personal data protection, in line with the EU's General Data Protection Regulation (GDPR) with respect to digital security.

TECHNOLOGIES



BLOCKCHAIN



SMART CONTRACTS



CLOUD COMPUTING



POSEIDON is a project funded by the European Commission. This project has received funding from the European Union's Horizon 2020 program under Grant Agreement n°786713.

PILOTS

The platform developed by the project will be assessed in **four different pilot** deployments (Italy, France, Spain and Malta), in public, private and mixed contexts.



the **Italian pilot** aims at **enhancing e-services for public officials**



the **Spanish pilot** aims to **improve e-Government services for the citizens of Santander**



the **Maltese pilot** focuses on **helping businesses to better sponsor and offer their services to customers**



the **French pilot** is aimed at **simplifying e-services for French citizens.**



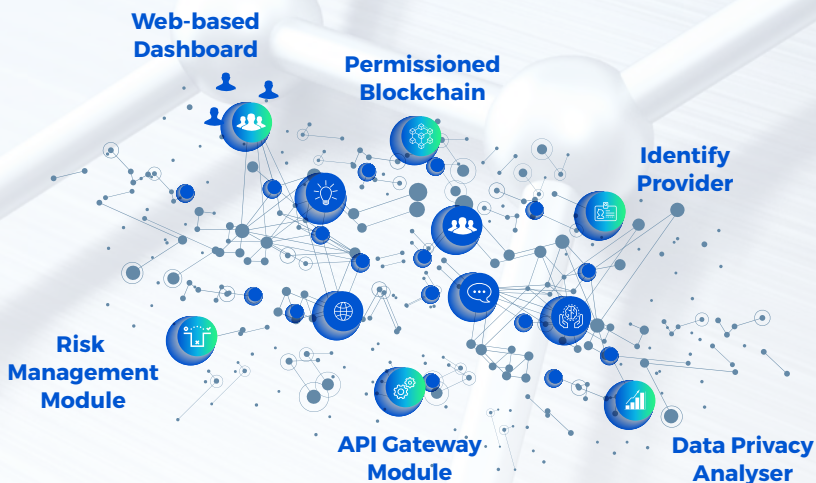
ARCHITECTURE

PoSelDon platform includes different **roles** (end users, data processors) and **components** (dashboard, permissioned blockchain, identity provider, Data Processor API module, risk management module, and data privacy analyser).

All relevant information will be available to users via a user-friendly **web dashboard** which allows to track **Personal Identifiable Information (PII)**, manage PII access permissions, and view the risk level stemming from their data exposure.

In order to reduce identity fraud and protect the privacy of users, access to the dashboard will be available only through eID accounts, in line with the eIDAS Regulation.

The solution is based on **smart contracts** and **permissioned blockchain**: while smart contracts meet the need for data confidentiality and inviolability, and access control for data subjects, blockchain technology enables secure PII management and exchange.



PRIVACY SUPPORT

PoSelD-on provides ample support for encryption (and privacy) between the involved actors (data subjects, data processors, administrators). PII data exchanges (e.g., between data processors, or between data subjects and data processors) are made through a message bus, but PII is encrypted in such a way that its content is not accessible, even to PoSelD-on administrations. PII in cleartext form pertaining to non-public transactions is not stored in the PoSelD-on platform, as well as transaction permissions. In short, no single party has access to relationship mappings outside its own membership.

**POSEID-ON WILL COMBINE EXPERTISE, EXPERIENCE AND SKILLS
OF PARTNERS ON PERSONAL DATA PROTECTION
AND REGULATION NEEDS AS WELL AS TECHNOLOGICAL
SERVICES DEVELOPMENT AND DELIVERY.**

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