



KRAKEN

Project Overview



[kraken-h2020](https://www.linkedin.com/company/kraken-h2020)



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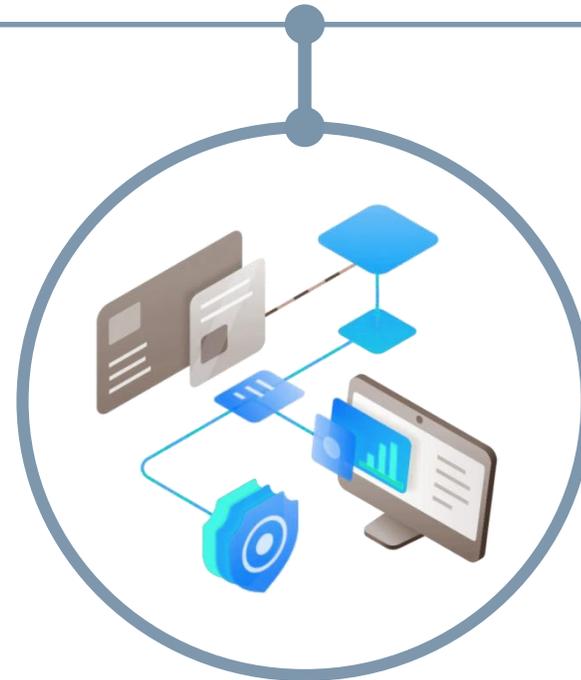
This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 871473

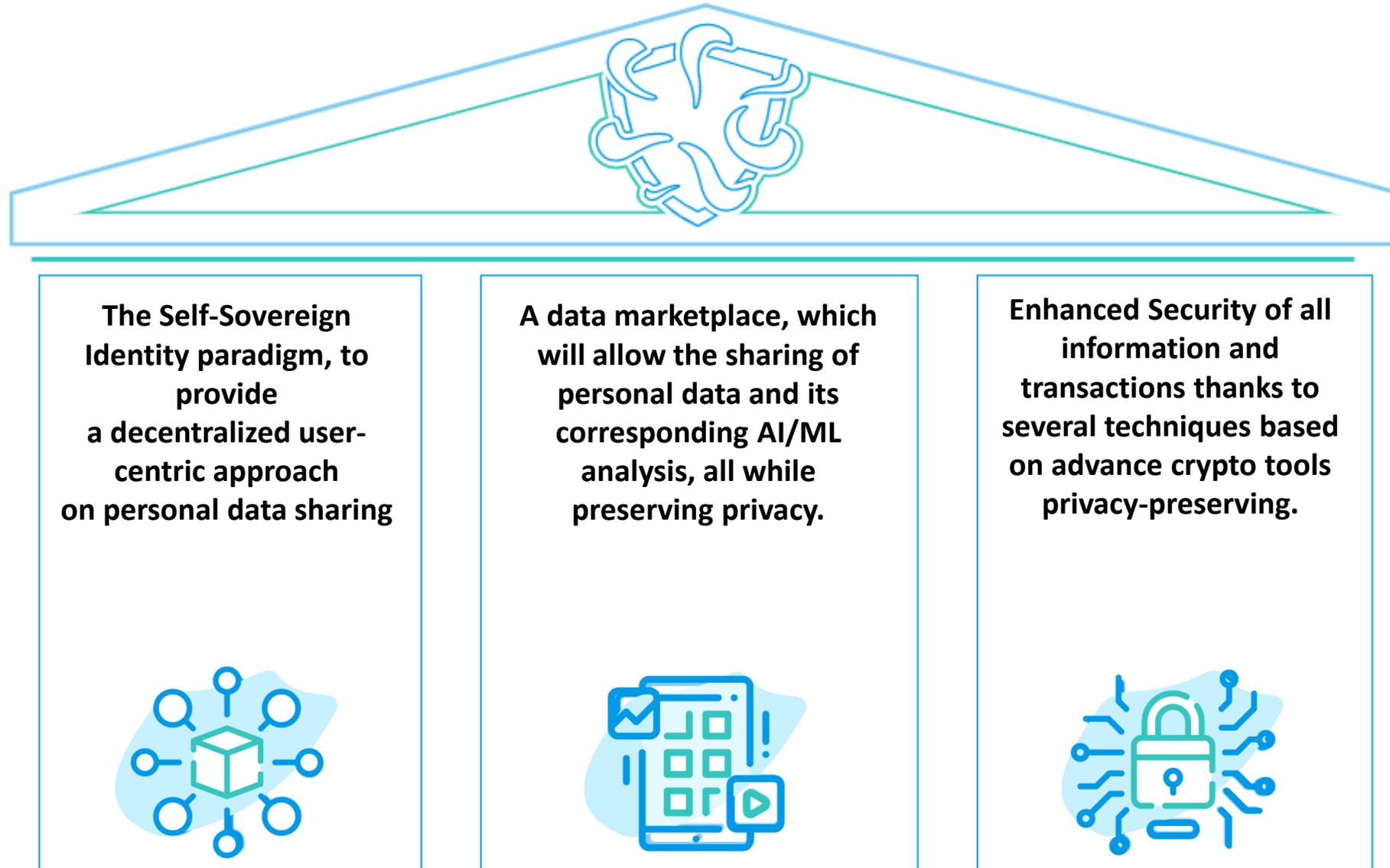




Our mission

Realize a trusted **marketplace** to share certified information between users and organization, leveraging on **Distributed Ledger Technology**, promoting the vision of **Self Sovereign Identity**, preserving **security and privacy** by design and creating an effective **compliance framework** to make the output compliant with EU regulations.







KRAKEN makes Self Sovrin Identity easy

Thanks to Kraken users create their own SSI within a digital wallet leveraging on SOVRIN Network

KRAKEN makes blockchain business ready

2 different use cases will be addressed to showcase the value of our project

KRAKEN makes everything law compliant

No more distance between technology and compliance: the project will study the way to allow the leverage on blockchain and the respect of major EU regulations

Our main goals



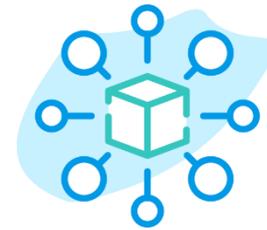
Deliver a wallet in which Users can finally own their information and share them with zero-knowledge proof thanks to SSI approach



Build a «bridge» between technology innovation (SSI, DLT) and the EU regulation (eIDAS, GDPR, etc)



Leverage on Distributed Ledger Technology to minimize risk of single point of failure



Identify a winning business model to create sustainable **economic value** for ‘**personal data spaces**’ supporting the Digital Single Markets’.



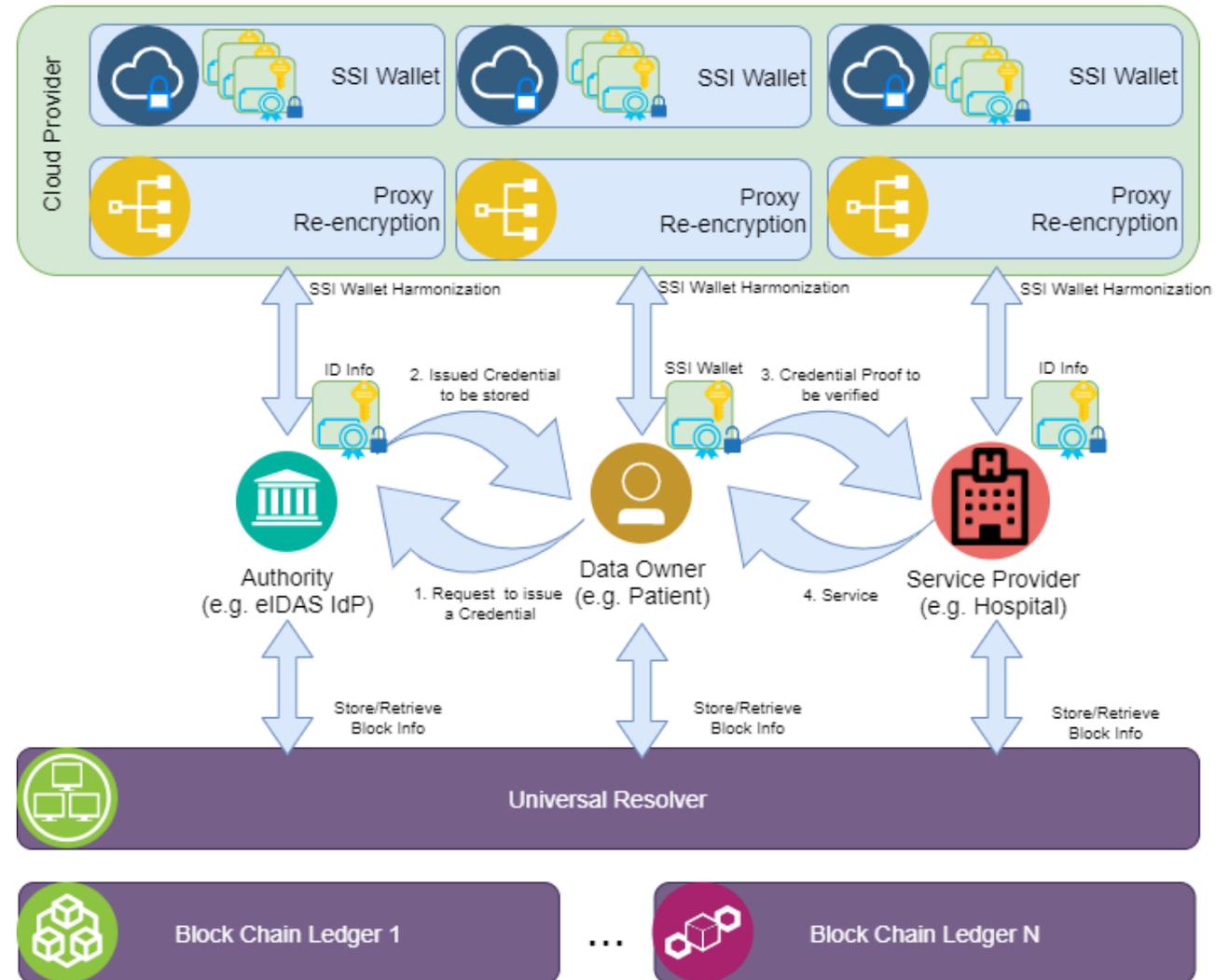
Create a secure framework in which companies can get trusted information and where data providers can rely on specific privacy metrics



Demonstrating in two high-impact pilots – **Health and Education**- the maturity, feasibility and applicability of our business research

How it will work

- Based on Distributed Ledger Technology, our ecosystem will involve 3 users:
 - Data Owner
 - Authority Provider
 - Service Provider
- Data Owner will have an SSI wallet to store credential and share DIDs with service providers when requested
- Marketplace will allow the sharing both of single claims and stream of data



A **biomedical data marketplace** for

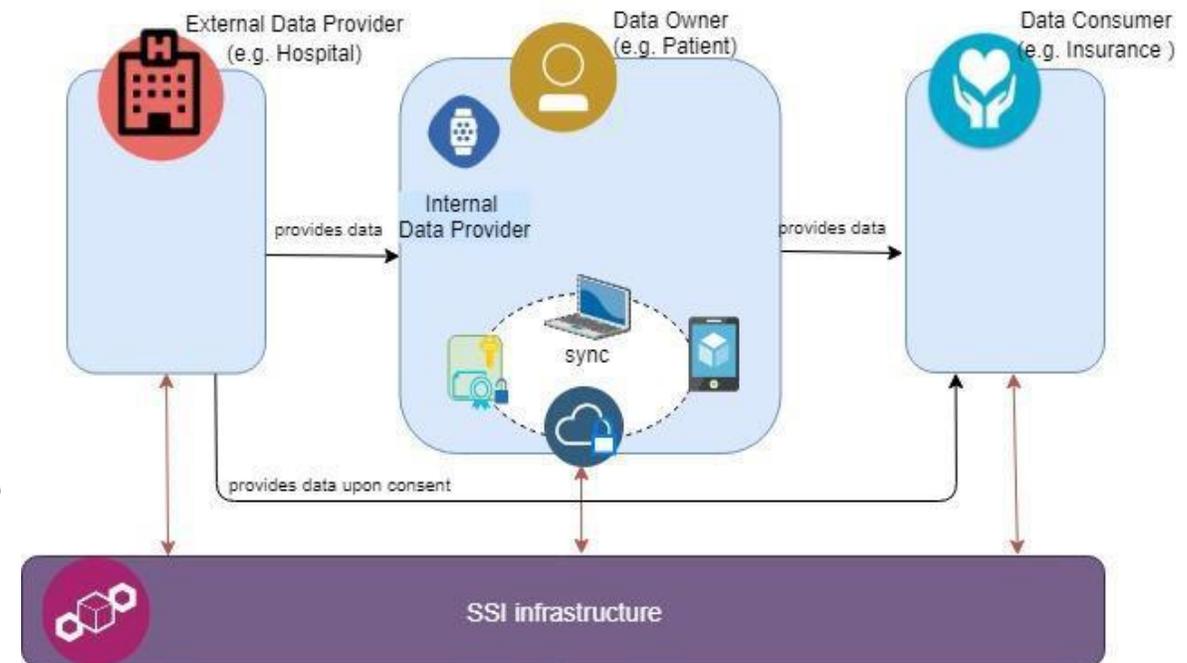
- (1) *individual citizens (Data Owners)*
- (2) *healthcare organisations (External Data Providers)*

where to commercialize to third parties (*Data Consumers, e.g., insurance, pharma*), in full compliance with the GDPR

- **patient medical records**
- **real-world, wellbeing data from wearable devices**

Benefits

- **Data providers** can control the use of their data and be equally rewarded, increasing awareness of their rights and liabilities and sharing the economic benefits
- **Data users** can have access to high-quality aggregated data in seamless way, extract maximum value from data and benefit society by (1) creating added economical value and (2) accelerating the pace of data-driven research and technological innovation in the biomedical field



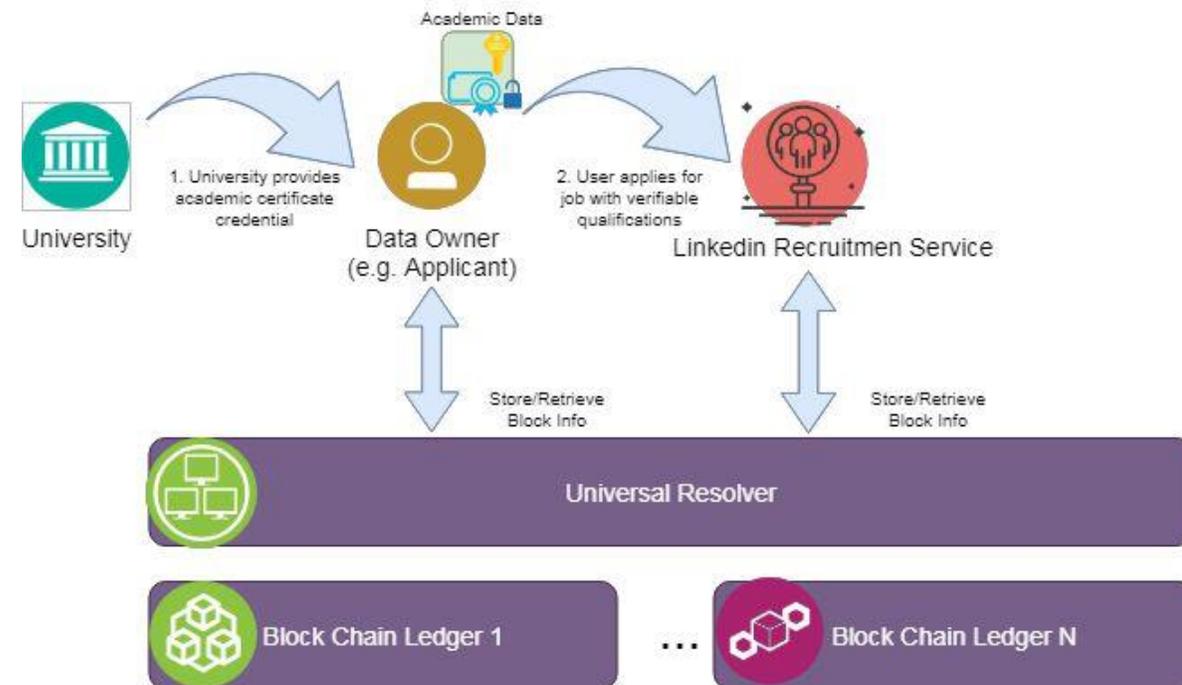
In the healthcare platform, individual citizens (Data Owners) and healthcare organisations (External Data Providers) can register through a *Self Sovereign Identity* (SSI) Wallet and set data access criteria and consent options for data usage, prior to providing data to the ledger. Data consumers, also registered in the SSI Infrastructure, can request data from the platform or from External Data providers upon consent.

Secure sharing of academic data of students, such as graduation certificates, certificates for courses, and the enrollment status for individual terms.

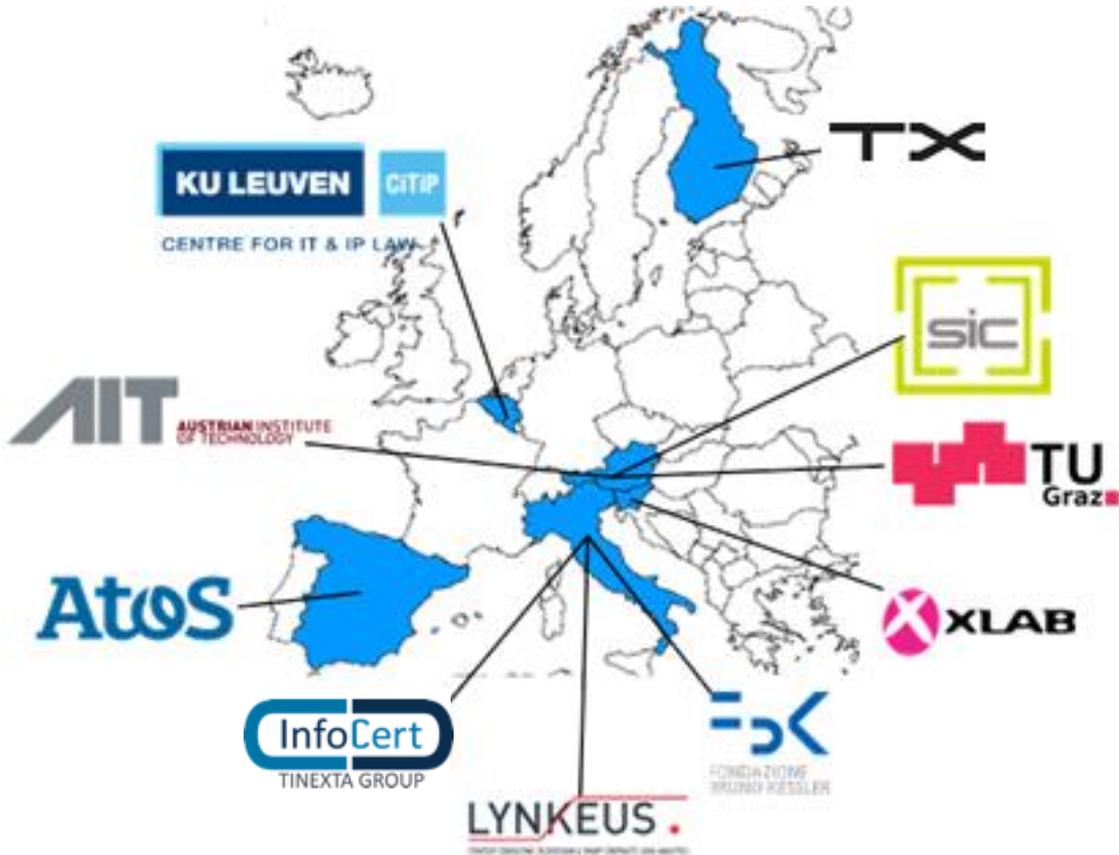
Enabling to perform **analytics** on that data in a privacy-preserving way.

Benefits

- **Students:** use student data for job applications and share selected data without compromising other data
- **University:** exchange student data while ensuring the students' privacy.
- **Recruiter:** make analysis of student data sets, e.g., gain insight into the academic performance of an individual student by comparing it with analytic of the data set
- **Companies:** facilitating the search for new talent during the selection processes.



The Consortium



Atos

InfoCert
TINEXTA GROUP

AIT
AUSTRIAN INSTITUTE
OF TECHNOLOGY

TU Graz

XLAB

KU LEUVEN **CiTIP**
CENTRE FOR IT & IP LAW

**FONDAZIONE
BRUNO KESSLER**

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Thank you for your attention!



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