EXPECTED AMBITIONS

1. **Advancing Self-Sovereign and Decentralized Identity Management:** Using an abstraction layer for the used Blockchain technology; by extending the reach of SSI to consent-based data transactions; deriving high quality identities from existing trusted providers ensuring a high level of security assurance in mobile settings; and trying to enable “qualified digital signature” of verifiable credentials (leveraging on eIDAS trust framework).

2. **Secure Sharing and Analysis of Encrypted Data:** Working on data protection and privacy-preserving data analytics crypto schemes, in order to have a single cryptographic primitive providing all properties with strong provable security guarantees.

3. **Self-Sovereign Data Marketplace:** Enabling the self-sovereignty of the information, hence making it possible to create a user-driven and distributed data marketplace. The new user-centric marketplace allows the full user control of the data flow and access.

4. **Privacy Metrics and Usable Interfaces:** Following a a user-centric approach involving target users from early stages of the design on privacy and usability aspects. Evaluating the usage of Privacy Enhancing Technologies (PET) interfaces.

5. **Legal and Regulatory Innovation:** complying with the GDPR and the current legislation.

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Brokerage and market platform for personal data

FACILITATING THE PERSONAL DATA SHARING
ON THE INTERNET BY GUARANTEEING
THE PRESERVATION OF PRIVACY

KRAKEN

INTRODUCTION

Brokerage and market platform for personal data

FACILITATING THE **PERSONAL DATA SHARING** ON THE INTERNET BY **GUARANTEEING THE PRESERVATION OF PRIVACY**

KRAKEN develops a trusted and secure personal data platform with state-of-the-art privacy aware analytics methods, guaranteeing on metadata privacy, including query privacy.

- KRAKEN makes Self-Sovereign Identity easy
- KRAKEN makes blockchain business ready
- KRAKEN makes everything law compliant
- KRAKEN **returns the control of their own data to the citizens**

PROJECT INFORMATION

Call: H2020-ICT-2019-2

Topic: ICT-13-2018-2019

Type of action: Innovation Action

Proposal number: 871473

Duration: 36 months

Start date: December 2019

Overall budget: € 5,999,787.50

Coordinator: Atos Spain SA

OBJECTIVES

KRAKEN is a **personal data marketplace platform** which aims to facilitate the implementation of a trustable, secure, scalable and efficient platform for personal data sharing and analysis.

State-of-the-art technologies: Building a highly trusted and secure yet scalable and efficient personal data sharing and analysis platform, leveraging CREDENTIAL and MHMD computing platforms.

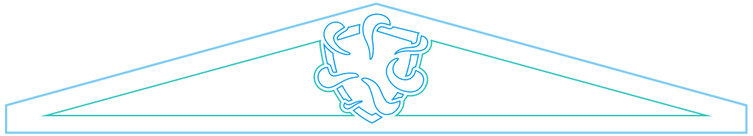
Self-sovereign approach: Supporting a paradigm shift that creates a true alternative to organization-centric data management, returning management control of their own data to the users.

Value-creation from personal data: Creating economic value and innovative business models and supporting the Digital Single Markets' data economy.

Data transparency: Developing privacy metrics to the data provider in easy-to-understand terms and oriented to non-technical and professional profiles.

Legal compliance: Legal and regulatory innovation which ensure that all developed solutions comply with the regulatory and technical constraints.

PILLARS & PILOTS



The Self-Sovereign Identity paradigm, to provide a decentralized user-centric approach on personal data sharing.

A data marketplace, which will allow the sharing of personal data and its corresponding AI/ML analysis, all while preserving privacy.

Enhanced Security of all information and transactions thanks to several techniques based on advance crypto tools privacy-preserving.

Maturity, feasibility and applicability: KRAKEN will be demonstrated in two high-impact pilots, such as Health and Education, by full multi-dimensional evaluation of achieved results, for generalizing adoption in further economic sectors.

EDUCATION PILOT	HEALTH PILOT
Protecting student data by privacy-preserving cryptography and authenticated using self-sovereign identity solutions.	Developing a biomedical data marketplace for individual citizens and healthcare organisations.