



Promoting and Incentivising Federated, Trusted, and Fair Sharing and Trading of Interoperable Data Assets

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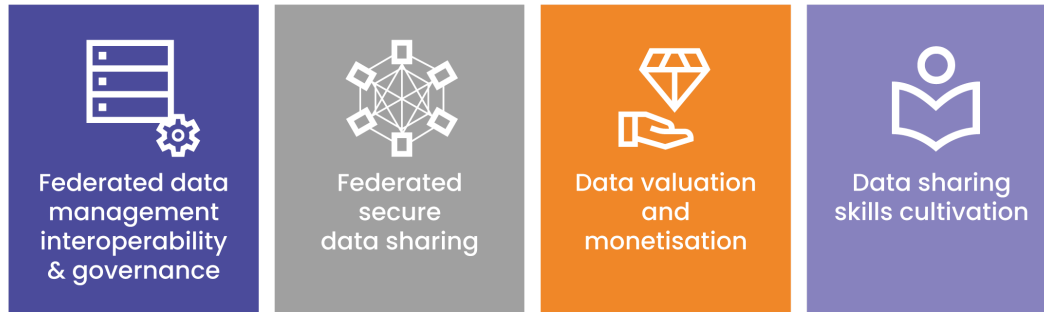


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PISTIS aims to **develop a reference federated sharing and trading platform for secure, trusted, and controlled usage of proprietary data assets and data-driven intelligence**. The project will advance available procedures and technologies, including federated data discovery and sharing, distributed ledger technologies (DLTs), data non-fungible tokens (NFTs), and AI-driven data quality assessment and monetization.

In PISTIS the way data is managed, shared and monetised is renewed, combining solutions from diverse domains (like data management, analytics, finance, crypto, security) through an orchestrated architecture which can accommodate the stakeholders' needs and realise the broader concept of the European Data Spaces for highly efficient and trustworthy data sharing and monetisation.

The four axes of PISTIS:



OBJECTIVES



Set the basis for fair and reliable data sharing and trading.



Design and deliver interoperable and secure data asset management and governance techniques.



Develop fit-for purpose data valuation and monetisation tools for data providers.



Integrate the PISTIS platform with software



Validate the PISTIS platform within a set of



Replicate and scale up the PISTIS solutions,

enabling trustful and
reliable exchanges.

representative real-
world scenarios.

satisfying the
stakeholders' needs.



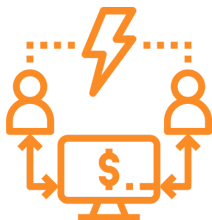
To cultivate a data
sharing mentality within
organisations.

DEMONSTRATORS HUBs



Mobility and urban planning

Data sharing/trading in aviation, public
transportation, and public administration.



Energy

Specific focus on the electrical distribution
network, and how different actors can set more
efficient and sustainable procedures.



Automotive

Environmental-friendly, safe, and efficient
mobility and transport, directly supporting the
European Green Deal.

Above-the-fold

PISTIS as told by our experts





PISTIS and EUDATA+ Alliance



EUDATA+

Europe's economic future hangs in the balance. On January 29, 2025, European Commission President Ursula Von Der Leyen unveiled the Competitiveness Compass, a bold plan to revitalize the EU economy. But

the stakes are higher than ever. With the US dropping a \$500 billion AI infrastructure bombshell and China's energy-efficient DeepSeek AI model challenging ChatGPT, Europe faces a critical moment.

To truly compete, Europe must unlock the transformative power of AI, and **that starts with data.**

The European data market, projected to explode to €141 billion by 2030 (IDC's Data Market Study), holds immense potential. Yet, shockingly, only a fraction of companies currently share data, hindering growth.

Imagine the possibilities: with the right conditions, Europe could unlock an additional €270 billion in GDP by 2028!

EUDATA+: A Flagship Cluster

EUDATA+ aims to address these challenges by fostering data sharing in Europe, a crucial component of the Data Economy. The cluster brings together advanced technologies and solutions for data trading, monetization, exchange, and interoperability.

Its offerings include:

- Technologies, solutions, and frameworks for compliant data collection, sharing, storage, processing, trading, and re-use, respecting the rights of all stakeholders.
- Scalable solutions for high-volume transactions with minimized energy consumption (e.g., smart contracting, data rights management, data use tracking).
- Approaches for data and metadata interoperability, including standards, reference architectures, and common ontologies for seamless data sharing across sectors.

EUDATA+ builds upon previous work in data platforms, privacy-preserving technologies, and computing, directly contributing to the development of Data Spaces.

EUDATA+ Cluster Participants



Project updates

The PISTIS platform: towards the alpha release

This newsletter highlights **the journey of data** within our platform (released its alpha version), from initial registration to eventual exchange. We've broken down the process into key stages, outlining the components involved at each step.

1. Data Registration & Processing: This initial phase focuses on preparing data for use within the platform. It begins with data onboarding, followed by crucial steps:

- **Data Check-In:** Includes data transformation and assessment.
- **Data Insights Generator:** Uncovers hidden patterns and valuable information.
- **Semantic Enrichment:** Adds context and meaning to the data.
- **Analytics Engine:** Enables powerful data analysis.
- **Data Quality Assessment:** Ensures data reliability and accuracy.

Optionally, we offer enhanced security and privacy features, including anonymization, lineage tracking, GDPR compliance checks, searchable encryption, and encryption/decryption engines.

2. Data Publication: Once processed, data can be published to the PISTIS Catalogue. This involves:

- Selecting data from the Data Factory Catalogue.
- Setting access policies via the Access Policy Editor.
- Defining monetization methods using tools like the Monetization Plan Designer and NFT Generator.
- Leveraging the FAIR Data Valuation Service for pricing suggestions.
- Bundling the data asset using the Asset Description Bundler.
- Publishing to the PISTIS Data Catalogue.

This stage also integrates with the PISTIS Digital DLT-FIAT Wallet, Data Investment Planner, PISTIS Market Insights, and Data Usage and Intentions Analytics to facilitate monetization.

3. Data Exchange: This is where data finds its consumers. The process involves:

- **Transaction Services:** Utilizing On/Off Platform Contract Inspectors, Transaction Auditors, Smart Contract Template Composers, and Smart Contract Execution Engines.
- **Data Exchange:** Employing the PISTIS Data Factory Connector and Smart Contract Checker.
- **Ledgers:** Recording transactions on the PISTIS Monetary Ledger and PISTIS Data Ledger.
- **AI & Interoperability:** Accessing the PISTIS Models Repository, Data Factory ML Models Repository, and AI Model Editor.
- **Identity & Access Management:** Utilizing the Identity Manager.
- **System Services:** Including the Data Factories Registrant and System and Activities Monitor.

The consumer journey starts with data discovery via the Factory Data Storage, PISTIS Data Factory Connector, PISTIS Data Catalogue, Distributed Query Engine, and Matchmaking Services. Acquisition involves Smart Contract Checkers, the PISTIS Digital DLT-FIAT Wallet, Encryption/Decryption Engines, Smart Contract Execution Engines, and

Data Factory User Wallets. Transactions are recorded on the PISTIS Data Ledger and PISTIS Monetary Ledger. Finally, the PISTIS Data Factory Connector facilitates secure data transfer.

This comprehensive data flow ensures a secure, efficient, and transparent process from registration to exchange, empowering users to unlock the full potential of their data.

You can read more details of the PISTIS alpha version platform [here](#).



Demonstrator hubs kicked-off the testing phase

PISTIS has launched testing the alpha version of its platform in the three demonstrator hubs: mobility and urban planning, energy, and automotive.

To know more read the press releases [here](#).

NEW EVENTS

Third PISTIS Living Lab



Data-driven businesses and data trading for your company

Date: 25 March 2025

Time: 10:00 - 11:00

Struggling to navigate the world of data sharing? PISTIS is simplifying the process, making data trading accessible and secure for businesses of all sizes.

Join our **3rd Living Lab on March 25th at 10 CET** for an interactive game that demystifies data trading. Learn how your decisions impact your setup and gain insights from experts on maximizing benefits within the European data economy.

Highlights:

- **Interactive Game:** Experience the data trading process firsthand.
- **Expert Insights:** Hear from leaders from Imperial College London and Fraunhofer Institute.
- **Practical Guidance:** Discover how PISTIS can empower your business to trade data confidently.

Don't miss this opportunity to understand and leverage the power of data trading.

For discovering the full agenda and registering for the Living Lab visit the [event webpage](#).

PAST EVENTS

EBDVF 2024 in Budapest



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