January 2023 - June 2026

PiSTiS

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

Consortium

Fraunhofer FOKUS · Atos · eurecat · transport for athens OASA S.A.

deepblue consulting & research · trafficon · CARUSO dataplace · ΕΠΙΣΕΥ ICCS

bamboo energy · Goldair Handling · OAG

City of Athens DAEM · UBIMET WEATHER MATTERS · IDC · L-Università ta' Malta

omie · UBITECH ubiquitous solutions · Suite5 We Deliver Intelligence · European DIGITAL SME Alliance

ATHENS INTERNATIONAL AIRPORT ELEFTHERIOS VENIZELOS · POLITECNICO MILANO 1863 · ARTHUR LEGAL STRATEGIES & SYSTEMS EST 2001 · Cuerva*

Imperial College London · SPACE · isi INDUSTRIAL SYSTEMS INSTITUTE

CARTIF · Assentian Limited · virtual vehicle

Overview

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 monetisation.

About

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.
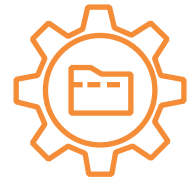
The four axes of PISTIS:

Federated data management interoperability & governance

Federated secure data sharing

Data valuation and monetisation

Data sharing skills cultivation

Objectives

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

Deliver interoperable and secure data asset management and governance techniques.

Develop fit-for-purpose data valuation and monetisation tools for data providers.
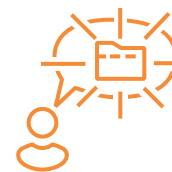
Integrate the PISTIS platform with software enabling trustful and reliable exchanges.

Validate the PISTIS platform within a set of representative real-world scenarios.

Replicate and scale up the PISTIS solutions, satisfying the stakeholders' needs.

Cultivate a data sharing mentality within organisations.

Demonstrators

Mobility and Urban Planning

Aim: to build an effective chain, centred around data trading, and sharing among stakeholders from various sectors, including aviation, public transportation, and public administration.
Who: Data consumers and/or providers, and data brokers in Greece.
Athens International Airport, GOLDAIR, OASA, and DAEM, as data consumers or providers; OAG, UBIMET as data brokers.
Use-cases: baggage handling management, transfer passenger management, aircraft turnaround process, public transportation planning support, and insights for city commercial businesses.
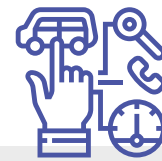
Energy

Aim: to provide a real environment for validating the operational benefits of data sharing, with a specific focus on the electrical distribution network, and how different actors can set more efficient and sustainable procedures.
Who: energy market, prosumers (i.e., individuals who are both energy producers and consumers in this case), and technical support in Spain. CUERVA, as data prosumer; OMIE, as market operators; BAMBOO, as aggregator, and CARTIF supporting the technical needs of the demonstrator.
Use-cases: increasing the hosting capacity of the grid, investment deferral, P2P trading between users or energy communities, and monetisation of data owned by different actors.

Automotive

Aim: to promote environmental-friendly, safe, and efficient mobility and transport, directly supporting the European Green Deal.
Who: data sources, including connected vehicle data from car manufacturers, vehicle trip data, weather data, map data, and air quality data in Austria and Germany.
CARUSO, as a data provider (VIF, TRAFFICON), as data consumers and services developers.
Use-cases: traffic quality assessment and driving attitude and risk assessment.