AI-Enabled Data Lifecycles Optimization and Data Spaces Integration for Increased Efficiency and Interoperability

Mission

PLIADES envisions an advanced AI-enabled framework for Full Data Lifecycles Optimisation and Data Spaces Integration that will:

- interconnect diverse sectors such as mobility, healthcare, manufacturing, energy, and green deal increasing efficiency and interoperability
- provide data and services for improving car technologies like that drive advancements in CCAM, ADAS/AD and HRI, for robot operators and patients

Objectives

The PLIADES project aims to research and develop:

- novel AI-enabled tools for sustainable and human-factors-aware data creation in diverse dataspaces,
- advanced data spaces connectors for extended interoperability across different data spaces,
- novel AI-boosted data brokers matching data consumers with data providers across different sectors utilising International Data Spaces – Reference Architecture Model (IDS-RAM),
- novel data processing and analytics services, ensuring data privacy, trustworthiness, security, re-use, and disposal

Expected Impact

Scientific: Research and development of innovative tools and standards

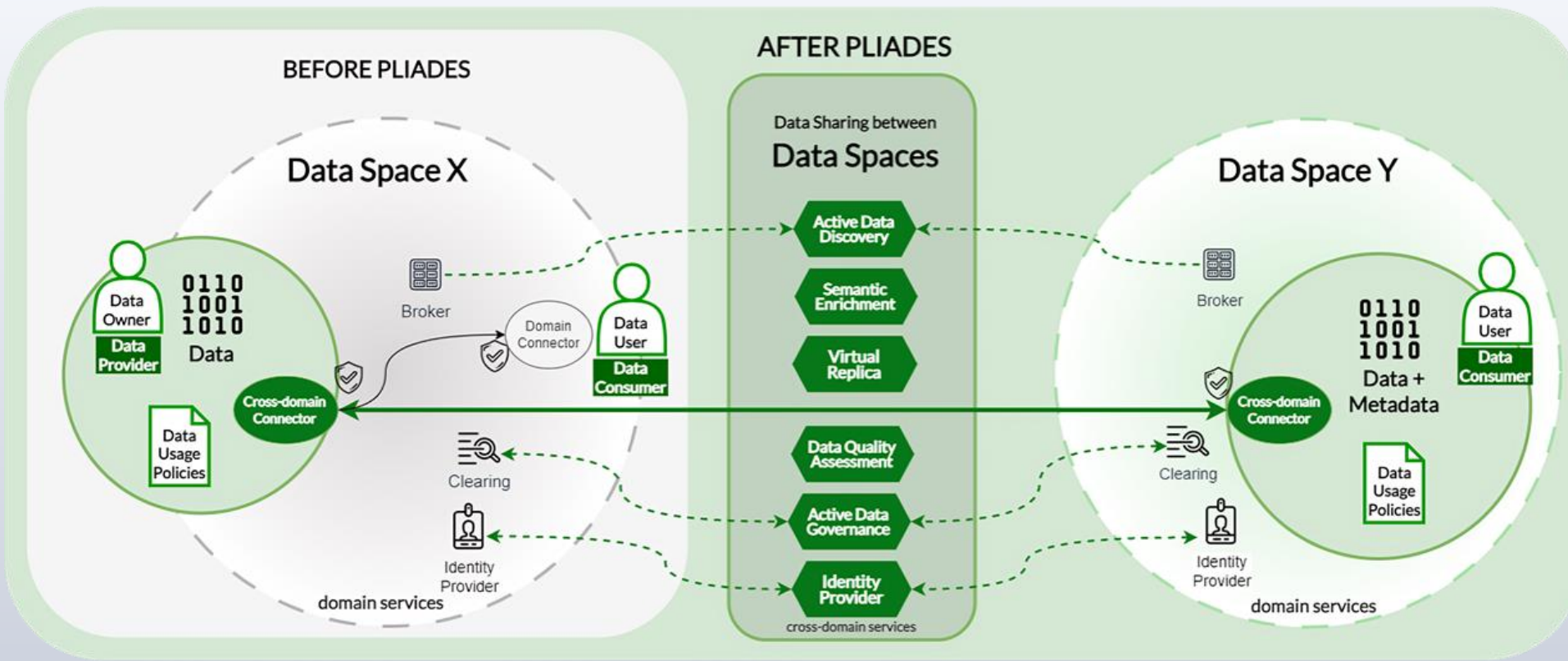
- that address critical challenges in data creation, storage, ownership, discovery, and disposal across diverse data spaces.

Societal: Produce greener data and enhanced services and products

- using advanced yet eco eco-friendly data processing methods for data generation,
- and improve everyday life through personalised healthcare products, smart vehicles, etc.

Economic/ Technological: The deployment of the PLIADES framework aims to:

- reduce resource requirements for data acquisition,
- improve technological solutions and promote advancements across multiple industries, through the utilisation of vast amounts of high quality data,
- enable synergies between multiple data spaces for development of innovative technologies.



Project partners

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