Dear readers,

as summer graces us with its warmth, it's time to pause and take a moment to explore some intriguing use cases from our Data Space Radar before we head off for the summer break. Much like the diversity of summer, our chosen examples span a variety of areas such as the green deal, manufacturing, rail, AI, and many more.

I'm fully convinced that data spaces will bring significant changes across all areas of life. Honestly, it's hard to picture an area that wouldn't benefit from data sovereignty.

However, demonstrating the potential of data spaces and motivating people to get involved can be quite challenging. If we drill down into a highly specific example, it might be hard for you to see how it relates to your domain or business case. But if we're too broad, the benefits can seem a bit unclear. It's like walking a tightrope, but we're committed to sharing a wide range of examples so there's a good chance you'll find something that piques your interest.

Now, it's your turn to dive into these examples in our summer edition. I'm eager to hear your thoughts and discuss how these might relate to your specific business situation after the summer. Perhaps you're contemplating building a new data space, or data spaces could be the key to resolving a business challenge. Let's explore the best way forward together.

I'm looking forward to catching up after the summer break. Until then, have a fantastic summer and consider what your role might be in the evolving world of data spaces.

Sincerely yours,
Christoph Mertens
Head of Adoption
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Data Spaces

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Data spaces are where sovereign data sharing happens

The IDS standard enables trustworthy data sharing among certified data providers and recipients, based on mutually agreed rules. Data spaces improve cooperation, lower the barriers to entry and enhance innovation.

Certified for trustworthiness

A rigorous, transparent certification process ensures trust of participants and components within the data space.

Data sharing and data processing along the data value chain:

Data spaces unlock the value of data.

**Data owner and data provider:** The data provider is a device that transfers the owner’s data to the data space via the IDS Connector. It allows others to use the data while retaining control over who, how, when, why and at what price. This is data sovereignty, the basis for unlocking the value of data.

**Data user and data consumer:** The data consumer is a device that processes data on behalf of the user. The data is offered by data providers per their usage policies and with confidence in the data’s quality and reliability. This is how data delivers its value. This too is data sovereignty.
Vocabularies provide standardized descriptors for data based on accepted best practices.

Broker provides information about data sources in terms of content, structure quality, currency and other features.

Identity Provider creates, maintains, manages and validates identity information of and for participants in the IDS.

App Store provides applications that can be deployed in IDS Connectors to execute tasks like transformation, aggregation or data analytics.

Apps are executed from the App Store in the trusted environment of the IDS Connector. Apps perform tasks such as transactions, aggregations or analysis of the data.

Broker provides information about data sources in terms of content, structure quality, currency and other features.

Clearing House is the clearing and settlement service for all data sharing and financial transactions within the IDS.

Identity Provider creates, maintains, manages and validates identity information of and for participants in the IDS.

Vocabularies provide standardized descriptors for data based on accepted best practices.
The Data Spaces Radar

The Data Spaces Radar serves as a platform to highlight established data spaces that adopted the IDS standard. As the number of data spaces continues to grow, it’s essential for organizations to have a clear understanding of the path towards sovereign data sharing. The radar provides an overview of who is utilizing this standard, listing data spaces categorizing them according to their domain and solution maturity.

Its impact is twofold: First, companies get inspired by the progress of others, motivating them to engage with the IDS framework. Second, businesses gain insights into how data space solutions are being developed, enabling them to learn from best practices. Additionally, the radar facilitates connections with experts who provide guidance in designing their own IDS adoption strategies.

Consortia investing in data space solutions are the vanguards of the IDS standard, showcasing the immense business opportunities of the data economy.
Maturity levels

**Lead in**

The first maturity level includes a general description of the use case or data space project, there is a consortium of partners, a vision, and a domain, yet it lacks further preparation.

**Case committed**

This is a more mature use case or data space since it already has a clearly defined technical architecture and the business cases are already documented and accessible. There is already a roadmap, project planning and management, a budget and activities have begun.

**Pilot**

At this level, technical solutions are already in use and there are trials underway where interoperability and data sharing help to solve the business challenge. The project is nearly at a live stage, but it is not yet market ready.

**Live**

To reach this level of maturity, sovereign data exchange must already be taking place and the technology of the data space must be fully functional. From a product perspective, participants can already access it as a service. From a solution's perspective, it should improve processes or solve an issue, be accessible and adopted within a network.
Why should you join the Data Spaces Radar?

The Data Space Radar connects you with others and creates networking opportunities with organizations, experts, and consortia. This overview of real-life data spaces helps companies to gain visibility. By sharing the progress, continuous improvement within the data space community is fostered.

Experts provide support to optimize data space implementations. By adopting the IDS standard new business opportunities open - with customers, investors, and partners committed to sovereign data sharing. All these pioneers seize a big competitive advantage.
102 Total entries

Mobility: 8 entries
Manufacturing: 17 entries
Energy: 12 entries
Supply Chain: 9 entries
Automotive: 5 entries
Cross-Domain: 43 entries
Smart City: 8 entries
Now it is time to look at real cases! We introduce you here to a mix of different data spaces – to show the broad field of possible data space usage. These are at different levels of maturity, in various focus areas, and use a range of technologies, all of which are relevant.

Special attention has been paid to the manufacturing and green deal/energy sectors, as these are currently in a period of immense growth and importance, and therefore attract a lot of attention.

The following IDS based data spaces and usage scenarios are selected based on their innovative solutions, scalability and visibility. You will find additional examples in the next version of this report.

If you wonder, how you can also share your data using IDS based solutions, contact us and we help you do it.
Real data spaces and usage scenarios — get inspired!
The frequency of global crises such as pandemics, wars, and disasters has increased, and building shared solutions using data connections is crucial to mitigate their impact. The Green Deal Dataspace (GDDS) supports risk and crisis management solutions and offers a platform to build projects and services and provides access to existing ones.

The Green Deal Dataspace is a central projection surface for solutions to strengthen resilience and sustainability. It's a pioneering cross-domain data space that enables participants to showcase their own solutions or explore and discover resources for their projects. The PAIRS and SPELL platforms are examples of prominent use cases of the GDDS.

Through the transparency of the GDDS crises and their effects can be detected earlier.

An IDS-based solution is implemented, and first prototypes have been tested in a use case.

The data marketplace offers participants access to an extensive compilation of over 2 million open data sets.
Advaneo Data Marketplace

- More than 2.5 Million Datasets
- Integrated online AI-Workbench
- Open Innovation Solution (Hackathons)
- Data Sharing Rooms

Publish Meta Data

Searches Meta Data

Raw Data Exchange (peer-to-peer)
Resilience Data Space (HERAKLION)

Challenge

The complexity of our world and the associated unpredictability demands to be better prepared. Crises such as climate change require an increased resilience and cross-community cooperation in highly interconnected societies and economies. Municipalities face the challenge of evaluating a growing amount of heterogeneous data from various institutions for data-driven and trustworthy decision support.

Success

Information plays a growingly important role in the management of any critical situation. In the HERAKLION project, Fraunhofer EMI, supported by Fraunhofer ISST and the University of Freiburg, is developing a scalable resilience data space to make crisis preparedness and response data more accessible and usable. The project will open new IDS based use cases.

Components

» EDC-Connector using Dataspace Protocol
» Identity Provider
  » Dynamic Attribute Provisioning Service (DAPS)
  » Dynamic Trust Monitoring (DTM)
» Participant Information Service (ParIS)
» Metadata-Broker
» Appstore
» Vocabulary Hub

Benefits

» The resilience data space ensures secure data sharing because it is based on the IDS Reference Architecture Model.
» Municipalities will be better prepared for crisis situations through the heuristic resilience analyses using data space functionalities.
Resilience Data Space

Data exchange and data processing along the data value chain
Challenge

Selecting new manufacturing equipment is a time-consuming challenge. Customers must attend trade shows, search the internet and talk to multiple experts to make an informed decision. Data spaces can help integrate and streamline this process.

Success

The MARKET 4.0 Metal Domain Data Space describes a robust and efficient solution for linking the catalogues of different equipment manufacturers to a MARKET 4.0 service that analyses the customer’s requirements and delivers the most appropriate equipment options. It operates in the metal domain manufacturing process and is based on the IDS RAM.

Components

- IDS Connector
- IDS Clearing House
- IDS Metadata Broker
- Special Applications
- Central IDS compliant platform

Benefits

- The MARKET 4.0 Metal Domain Data Space makes the selection of manufacturing equipment simpler and more efficient.
- The inventories and services include essential IDS modules that guarantee a trusted data sharing.
MARKET4.0 receives funding from the European Union Digital Europe Programme under grant agreement n° 822064.

MARKET4.0 customer

Market4.0 customer

M4.0 Client (website)

Secure API

Internal Data store

Application Management

User Management

E-Commerce catalogue, order capture, etc.

Payment/billing

Order management

Dynamic Supplier Network Configuration & Management

IDS ecosystem

Customer

IDS

Supplier

IDS Broker

Enterprise data

IDS Clearing House

IDS Identity provider

Supplier Domain
Sovereign data sharing to predict energy generation and consumption

**Challenge**
The energy system must guarantee supply security for industry and households. To accomplish this while enabling the transition to renewable energy supply, data sharing between the large number of actors is a necessity. This is the only way to ensure grid stability and efficiency.

**Success**
dena-ENDA is a data space that enables sovereign data sharing to support more flexible and efficient renewable energy systems. With dena-ENDA, it is possible to access energy data from multiple sources in one place and better predict and manage energy production and consumption in DSO grids. The first use case of the project is Redispatch 3.0, which provides forecasts of energy injection and usage.

**Components**
» IDS Connector
» IAM Layer
» Semantic Data Model

**Benefits**
» An energy data space enables informed decision-making by providing real-time and historical data on energy production, consumption, and distribution.
» By accessing and analyzing comprehensive energy data from various sources, stakeholders can gain valuable insights. This leads to improved energy efficiency, reduced waste, and cost savings.
Immunization Action Coalition (Immunize.org)
Manufacturing as a Service

Manufacturing as a Service Operation for remote production

**Challenge**

A trusted service to execute remote production jobs is needed. A Manufacturing-as-a-Service system could be built on the implementation of the latest Asset Administration Shell (AAS) developments and IDS connectors. Such a solution should also facilitate interoperability and scalability.

**Success**

MONDRAGON Corporation Group, with the support of Mondragon University, IKERLAN and IDEKO Research Center, has developed such a system for the remote execution of production orders. Static and dynamic information of industrial assets is modeled, and the result is stored in an AAS manager. A production orchestrator executes the production orders.

**Components**

- IDS Connector
- IDS Metadata Broker
- AAS Manager and Registry System
- Special Applications (IDS middleware adaptors and Active AAS orchestrator)

**Benefits**

The AAS registry allows the selection of assets with capabilities to perform tasks and releases the AAS catalog available in the system. The catalog is shared with external parties via data space connectors to make it easier for third-party companies to launch production jobs remotely.
Supply chains are vulnerable, and industries rely on them. Therefore, it is necessary to combine new technologies for manufacturing and other industries with an industrial data space ecosystem to share AI results faster which will help stabilize the flow of supplies.

The AI.SOV project created a secure platform that has been designed to support industries in Europe by enabling them to share AI-generated results, including predictive maintenance, spare parts production, and new business opportunities across the value chain. The project has successfully deployed a B2B application that facilitates data-sharing among manufacturers and suppliers within industrial ecosystems.

**Benefits**

- New insights on the use of data sharing platforms in the industrial supply chain are gained.
- An educational module focuses on data sovereignty in the supply chain and provides real-world industrial use cases.
- Stakeholders across supply/value chain share data based on self-defined data use policies.

**Components**

- IDS Connectors
- Dynamic Attribute Provider Service
- Governance Layer
- User Agreement Layer
Data spaces have been identified as a solution to open the currently fragmented edge computing environments, to promote data interoperability in a secure manner. Nevertheless, there is still a lack of practical instructions for the merging of data spaces and MEC components to support scenarios in impactful application domains such as autonomous driving and Industry 4.0.

**Challenge**

**Success**

EdgeDS presents a novel approach to integrating mechanisms for sovereign data sharing, into multi-access edge computing (MEC) environments. Its architecture extends the ETSI MEC Architectural Framework with artifacts from the IDS RAM. The approach introduces the IDS-Connector-as-a-service model, extending the ETSI MEC architecture with data space capabilities that are directly instilled into the mechanisms of MEC platforms.

**Components**

- IDS Connector
- MEC Service Management
- Service Registry
- MEC Apps

**Benefits**

- This is one of the first concrete architectural specifications for enabling data space features in MEC systems. It allows multi-party and cross-domain sharing of data services.
- An open-source prototype showcased its functionality and scalability - enabling data space features in MEC systems.
• Successful data exchange
• Autoscaling capabilities
The focus of the Rail Data Space (RDS) is on creating an interoperable and secure federated Data Space for Rail that can be trusted by all partners. On the long run RDS is a data space for the entire rail community.

The Rail Data Space is one of the key “digital enablers” for the digitalization of the European Rail System. It is developed within the Europe's Rail Joint Undertaking's MOTIONAL Flagship Project, which focuses on innovative solutions for European Rail Network and Mobility Management, providing at the same time a common data sharing capability to all other Undertaking's projects.

**Challenge**

- Enhancement of competitiveness and sustainability for the rail industry
- Providing of opportunities to create new services and products through shared data assets
- Integration of rail transportation into a comprehensive mobility system
- 100% driven by industry needs
- Accommodation of widely accepted data models
- Complying with and utilization of open-source architectures

**Success**

- From the Eclipse Data Space Components project:
  - EDC Connector
  - Certificate Authority
  - Federated Catalogue
  - Self-Sovereign Identity
  - DIH Digital.ID based on the GAIA-X Trust Framework 22.10
  - Clearing House

**Components**

Europe’s entire rail community is joining forces to create a data ecosystem for the track. Watch out - it’s fast!
This project has received funding from the Europe's Rail Joint Undertaking under the European Union's Horizon 2022 research and innovation programme under grant agreement No 101101973.
I4.0 data space and app marketplace

IDS-compliant Industry 4.0 data app ecosystem for connected factories & third-party service providers

**Challenge**

Factories collect IoT sensor data to optimize production processes using data analytics, AI, and machine learning. This includes predictive maintenance, reducing operational costs, and improving energy efficiency. Often, factories lack the necessary digital skills to implement these techniques internally, leading to the need to share data with external service providers.

**Success**

The i2CAT Foundation implemented an IDS-compliant data space and marketplace prototype in the Looming Factory project. It securely connects factory machinery to predictive analytics services, offers an IDS App Store for third-party providers, and includes various third-party predictive analytics services for the marketplace proof of concept.

**Components**

» Dataspace Connector v8.0.0
» App Store v2.0.0
» DAPS: the Fraunhofer test certification authority. Specific digital certificates for the pilot were previously requested and issued.

**Benefits**

» The factory connects to third-party data services for process optimization, promoting efficiency and cost reduction.

» Factories have options from competing solutions, while SMEs can use the AppStore to provide services within an expandable data space.

» I4.0 data service providers can deploy solutions within an IDS-framework, adapting to future regulations and market dynamics.

The Looming Factory project was co-funded by the European Regional Development Fund of the European Union in the framework of the ERDF Operational Program for Catalonia 2014-2020.
Take a closer look on what’s on the radar: successful usage scenarios and inspiring data spaces

From manufacturing's supply chain to the automotive infrastructure, from energy transition to AI application - the wide range of data spaces enriches all companies involved across many ecosystems.

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The heart of the matter

You'll find all of the most mission-critical documents and other information about IDSA's work and partner projects here.

#DataSpacesTuesday

Every Tuesday, check out the latest data spaces and usage scenarios on our LinkedIn account.
What’s in it for me?

» You increase your visibility and reach out within and across your domain
» You get an overview of the cases and representatives of your industry domain
» You can network with others and exchange experiences
» You can track your path to success and learn how others reached their goals

How to become part of the Data Spaces Radar?

Register here