IDSA		
Nature of the Initiative	Association | European Project |International Project | Data Space	
Mission	IDSA is on a mission to create a digital future, across Europe and around the world; in which all players can realize the full value of their data through equal access to secure and sovereign data exchange, meaning staying in control of access and usage of your data, among trusted partners.	
Sector(s) addressed	Multisector (Agriculture | Mobility | Health | Manufacturing | Tourism | Energy)	
Leading organisation	Lars Nagel, CEO	
Members	140+ Members | 17 Hubs, Competence Centres & Labs | 28 Countries	
Founded	2016	
Web	https://internationaldataspaces.org/	
Social Media Presence	X | YouTube |LinkedIn	
Relevance for Industry 4.0	The IDSA standard enables data sharing through data spaces characterized by uniform rules, certified data providers and recipients and trust among partners.	
Key Information	**Levels**	**Important Links**
Data Space Technical Specifications	★★★★★	GitHub Link
Data Space Governance	★★★	IDSA Rulebook
Data Space Demonstration	★★★★	Fairs & events
Data Space Adoption	★★★★★	Data Space Radar, Implementation Partners, Education Data Space Adoption
Connected Data Space 4.0 Initiatives	Gaia-X, Catena-X, DSSC, FIWARE, BDVA	
Additional Information		
Contact	Emails: info@internationaldataspaces.org & administration@internationaldataspaces.org	

Report

What is IDSA?

The International Data Space Association (IDSA) was founded in 2016 with the mission to unite companies and organisations around the world that believe in the economics of data, its free flow and the ability of the data owner to decide the conditions and restrictions they consider appropriate for the data they share (what has been define as data sovereignty), as well as to participate in the value generated by data. Moreover, they are a global organization that represents the economic interest of the IDS initiative and they are dedicated to maintaining and spreading its ecosystem by adapting it to the requirements of the different industrial sectors.

Mission

The goal is to make IDS the market´s system of choice for sharing data securely, reliably and respecting digital sovereignty.

Members

Currently, IDSA has 14 board members representing some of the most respected organisations in the world. Therefore, in order to achieve the above-mentioned objectives IDSA has inspired a strong network of international hubs and competence centres that share knowledge and information about IDS in countries around the world (e.g., Hub Spain, Competence Centre Spain, Hub Belgium, etc.). As well as supporting and overseeing initiatives for research and development aimed at advancing the IDS standard. Additionally, they also use "use cases" to show how their research applies to real-life challenges (see examples here).

Solutions & Key Assets

- The IDS Reference Architectural Model

Regarding their architecture reference, data will become an even more important source of competitive advantage—but only if you can securely exchange it and confidently decide how to use it. This type of secure exchange can take place in data spaces, and IDS-RAM establishes the benchmark for creating IDS ecosystems, products, and services. Furthermore, it contains the global and European standards for secure and sovereign data exchange, certification and governance.

- Certification: The basis of trust

Trust is the fundamental principle of IDS, and it is built via a rigorous, open certification procedure. The IDS Connector is the most crucial part of a data space. Assuring that everything works as it should, every IDS Connector and every data sharing participant is certified against specific security standards. For that reason, participants can begin their actual data exchange on the basis of trust. The IDS employs a certification scheme that includes all procedures, guidelines, and standards managing the certification process in order to guarantee a uniform procedure for the certification of participants and core components. The IDS Certification Scheme incorporates internationally known certification concepts and best practices. As a result, IDS certification has two types:

1. *Core Component Certification*: it evaluates and certifies the core components of IDS.
2. *Operation Environment Certification*: This evaluation provides an assessment of the trustworthiness of the physical environment, defined processes, and organizational rules.

- Adoption: Data Space Radar

Data Space Radar has been a crucial asset for IDSA and its ecosystem for years. Nowadays, it hosts over 120 entries and it is home to many of the most important IDS-based data spaces and use cases across various domains.

What is Data Space Radar?

Acknowledged by the European Commission as a valuable source of information regarding data spaces, Data Space Radar is a tool to give visibility to all data space endeavours out there, transparency on their achievements and identify the most promising ones, to foster evolution and matchmaking. In addition, it covers use cases of different degrees of maturity from the phase of creating a business case to real data spaces (see here the data space radar).

How can you join?

It is open to everyone who would like to bring their use cases and data spaces and to join it you just need to fill up this document.

- Adoption: Implementation partners

IDSA offers experienced partners to have at your side to help you implement data spaces. IDSA works together with many different organizations who serve as implementation partners, ready to help you along your adoption journey. Business Implementation Partners helps you with onboarding, helps you understand the value that is created by sovereign data sharing and the advantages of secure and trustworthy equal partnerships. However, Technology Implementation Partners helps you with bringing your use case from the drawing board into the real world.

- Adoption: Education

IDSA partners offer hands-on trainings and seminars where you can learn about implementing IDS – and speed up your journey to sovereign data sharing. For instance, BAIDATA offers introduction to data spaces or configuration and use of data spaces courses.

Events

IDSA regularly sponsors events, roundtables and workshops related to building the data economy of the future (click here to see future events). A recent event has been their new hub inauguration in Japan. The Japanese IDSA Hub is co-organised by the University of Tokyo and the Data Society Alliance; with the official signing of the Memorandum of Understanding (MoU) during Tokyo's Data Spaces Discovery Day. The event showed a great desire for cooperation and the pursuit of innovative opportunities among attendees. While focusing on the idea of data sovereignty, its commercial value, and the creation of methods to link current data spaces (see this article for more information).