gaia-x
Hub Austria

GAIA-X HUB AUSTRIA

Project and Use Case Landscape

Data space initiatives in Austria, Europe and beyond

Gaia-X Summit 2026
Vienna, 19 and 20 November 2026



Gaia-X Hub Austria

Austria’s hub for sovereign data sharing

Gaia-X Hub Austria connects business, research and public administration around a shared goal: enabling organisations to exchange and use data while retaining control over it.

The hub translates European developments into practical orientation for Austria. Working groups and exchange on concrete use cases bring partners together and help Austrian initiatives connect with the wider European ecosystem.

01
Strategic guidance

The hub tracks European and national developments in data spaces and interoperability. It prepares briefings and recommendations that help decision-makers assess their relevance for Austria.

02
Knowledge and standards

Shared resources, the Gaia-X Academy and exchanges with experts explain how data spaces work. Technical and regulatory topics become easier to assess in the context of real applications.

03
Practical collaboration

Working groups bring together requirements and experience from concrete use cases. The hub connects organisations, makes existing initiatives visible and helps identify opportunities for cooperation.

04
European connections

The hub links Austrian projects with European initiatives and networks. It brings Austrian expertise into the discussion and helps national activities connect with common approaches and standards.

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01

Introduction

Across the world, a growing number of data space initiatives and projects are emerging to enable secure, interoperable and trustworthy data sharing. Supported by European programs, industry collaborations, and initiatives such as Gaia-X, these efforts are moving from conceptual frameworks to concrete applications and use cases. However, their maturity varies across sectors, ranging from early-stage concepts and pilot projects to more advanced implementations and operational data spaces. In Austria, Gaia-X Hub Austria contributes to these developments by fostering collaboration among national stakeholders and strengthening their connections to the wider European and international data space ecosystem.

This Landscape Mapping provides a structured overview of existing data space initiatives and projects across different sectors. Furthermore, it offers insights into their practical applications and the use cases they address. The report covers initiatives and projects at Austrian, European and international levels, with particular attention to projects connected to Gaia-X.

02

Methodology

The report was developed in three main steps: defining a common structure for data collection, identifying and documenting relevant initiatives and analysing the results.

First, a common project template and sectors were defined. The sector classification was based on the domains represented by Gaia-X, Common European Data Spaces and FIWARE, additional domains emerged during the desk research process. To avoid duplication, some sectors were combined where scope and use cases overlapped. The final landscape covers the following main domains:

- Agriculture & Agrifood
- Energy
- Finance
- Manufacturing & Industry
- Tourism
- Education & Skills
- Mobility, Transport & Logistics
- Public Administration
- Environment & Green Deal
- Smart Cities & Communities
- Security, Critical Infrastructure & Public Safety
- Research & Innovation
- Health
- Culture, Media & Language
- Construction & Real Estate

Second, data space initiatives and projects at Austrian, European, and international levels were identified through AI-supported desk research. For each initiative, a structured fact sheet was created to capture key information including objectives, maturity level, geographical scope, use cases, and technical components.

Third, the collected information was analyzed to compare activities across sectors and geographical levels. The results are presented through a comparison of Austria's Gaia-X Hub domains with broader Gaia-X ecosystems, a visual project landscape table, a figure illustrating sector-specific use cases, and a gap analysis identifying areas for further development.

03

Gaia-X Domains and Ecosystems

Figure 1 illustrates the domains listed on the Gaia-X Hub Austria website (2026) and compares them with the sectoral Gaia-X Ecosystems presented by Gaia-X (2026) at European level.

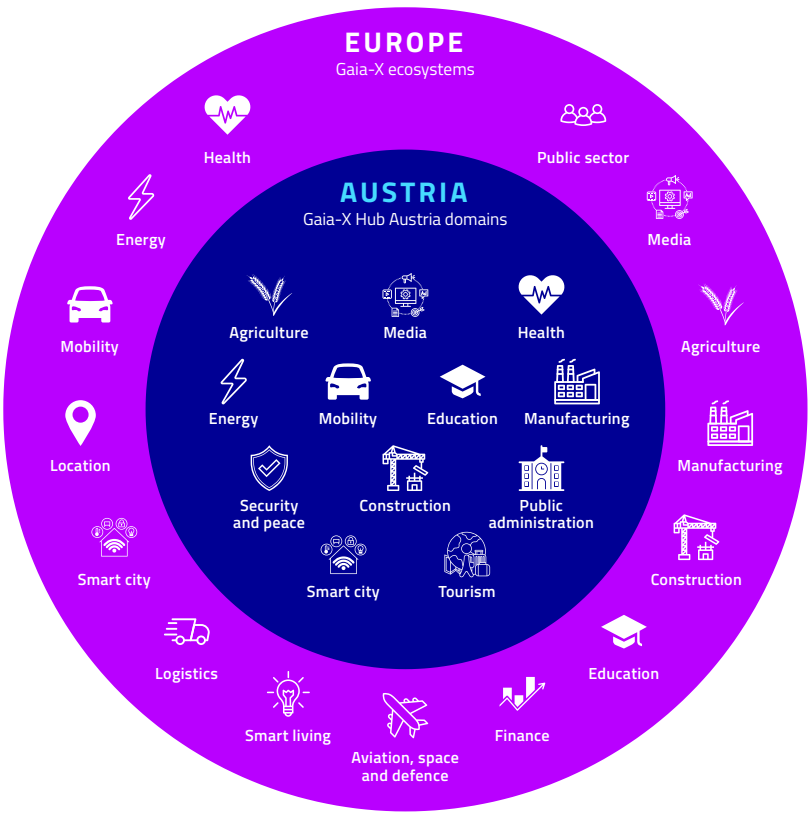


Figure 1 Gaia-X Domains.

The two levels overlap. Agriculture, Energy, Health, Manufacturing, Education, and Smart Cities are listed as domains within Gaia-X Hub Austria and listed as broader Gaia-X ecosystems. At the same time, several sectors do not yet have a standalone domain within Gaia-X Hub Austria, such as Finance, Logistics, Smart Living, Location and Aviation, and Space & Defense. At the time, the Austrian Hub lists Construction, Media, and Mobility as domains with designated domain leads, although there are no designated webpages with further information on activities and related initiatives for these domains.

04

Project Landscape

Table 1 provides a selected overview of data-space-related projects and initiatives across different sectors and geographic areas (Austrian, European, or international level). European projects coordinated by Austrian organisations are marked with the Austrian flag. The table includes operational data spaces, pilot and research projects, and initiatives directly related to data space development. Website addresses for all projects are listed in the appendix. Cross-border initiatives and projects spanning multiple sectors may appear in more than one category. The overview is based on AI-supported desk research and is not intended to be exhaustive.

SECTORS	AUSTRIA	EUROPE	INTERNATIONAL
Agriculture & Agrifood	INNOVATION FARM	AgrospAI, CEADS, RegenAg-X	
Manufacturing & Industry	champI4.0ns, PASSAT, AMIDS	ACCURATE, eu data space, FAX, Catena-X, Data4 Industry-X, SC SN, UNDERPIN, EuPro Gigant, SMARTENANCE, Flex4Res	SHOES-X, Automotive and Battery Traceability Center, International Manufacturing-X Council, Catena-X North American Hub, AIAG
Mobility, Transport & Logistics	CARINA, KI.Mobilität, KODRIM-AT	EDM-X, deploy EMDS, Mobility Data Space, gaia-x 4 future mobility	China Logistics Trusted Data Space, TradeTrust
Energy	SEFLEDS, EDA	omega-x, EDDIE, Data4 NUCLEAR X, energy data-X, EMPOWER-X, INSIEME	China Southern Power Grid Energy Trusted Data Space
Health	Smart FOX, D4Health, EXPEHDIA, PräNUDGE	HEALTH-X dataLOFT, HealthData@EU, TEAM-X, DATASPACE 4HEALTH	
Smart City & Communities	Tirol, Stadt Wien, ADUCAT	European data space for smart communities, COMMUNITY-X, LDT CiTiVERSE EDIC	IUDX, Shanghai Trustworthy Data Space
Tourism	smart tourism hub, Tourism Data Space	EONA-X, DEPLOYTOUR	
Environment & Green Deal	GreenDataHub	SAGE	
Construction & Real Estate		DIGITAL TER-X 2050, DSGO, DigiBuild	
Education & Skills		DS4Skills	
Finance		EuroDaT	Consumer Data Right
Public Administration	dadeX	PUBLIC PROCUREMENT DATA SPACE	
Security, Critical Infrastructure & Public Safety	PeaceTech Alliance	COOPERANTS, DECADE-X	
Culture, Media & Language	Kulturgüterschutz4.0	EUROPEAN LANGUAGE DATA SPACE, tems, ai4culture	
Research & Innovation		FAIR Data Spaces, eosc	
Cross-domain / cloud services		PONTUS-X, PROMETHEUS-X, dynamo, InfraDS, Sovereign Cloud Stack	Open Data Spaces

European projects coordinated by Austrian organisations

Table 1 Overview of data space related projects and initiatives.

05

Key Observations

Manufacturing & Industry is the sector with the most identified projects at all levels. For instance, **AMIDS** connects pilot factories in Wien, Graz, and Linz to create an Austrian Manufacturing Innovation Data Space, while the now-closed **champI4.0ns** project demonstrated sovereign data use in the wood industry, including material traceability and autonomous process control. The completed Austrian-German project **EuProGigant** developed a secure manufacturing data space and demonstrated cross-organisational exchange of production and material data without requiring companies to centralise sensitive information. Manufacturing is also strongly represented at the European level. For instance, **Catena-X** focuses on secure and standardised data exchange across the automotive value chain and **Data4Industry-X** addresses sovereign data exchange across companies, factories and industrial value chains. **Flex4Res** focuses on resilient production lines and supply chains, and **SCSN** provides an ecosystem for secure and efficient data exchange within high-tech supply chains.

Several ongoing projects also operate within the Health and Energy domains. In Austria, Energy-related projects focuses on interoperability among households, energy providers, and technology companies, and include applications such as peer-to-peer energy trading, dynamic tariffs, forecasting, smart-home services, and transparency around energy origin and consumption. For example, **EDDIE**, a European project coordinated by the Austrian Institute of Technology, aims to contribute to a European Energy Data Space. At the European level, projects such as **OMEGA-X**, **Energy Data-X**, **Empower-X, and Data4NuclearX** show how this concept applies across different parts of the energy system. For example, Empower-X focuses on interoperable data sharing to optimise renewable-energy use and energy communities. In the Health domain at the Austrian level, **Smart FOX** supports voluntary health-data donation for research; **d4Health Tirol** addresses cross-sectoral care pathway analysis; and **präNUDGE** works with standardised health profiles from trusted applications to support personalised prevention and public-health use cases. The newly launched **EXPE-HDIA** project focuses on health-data applications in the European Health Data Space. **HEALTH-XdataLOFT**, **TEAM-X** and **Dataspace4Health** provide complementary approaches to sovereign health-data sharing.

The figure also reveals domains where fewer concrete projects were identified in Austria, such as Construction & Real Estate, Education & Skills and Finance. At the European level, in the Construction domain, **Digital TER-X 2050** became a Gaia-X Lighthouse Project in November 2025 and is developing a European framework for construction and real-estate data spaces, combining Gaia-X standards with construction-related ISO standards and coordinating services across national catalogs. European Cloud Services initiatives, such as **InfraDS, Sovereign Cloud Stack**, **and Structura-X,** contribute horizontal infrastructure and capabilities that support multiple data spaces.

Beyond Europe, the table highlights a growing set of international data space initiatives. China is developing more than 100 Trusted Data Spaces by 2028, with applications in, for instance, Energy, Smart Cities and Logistics (**China Southern Power Grid Energy Trusted Data Space; Shanghai Trustworthy Data Space; China Logistics Trusted Data Space**). Japan's cross-domain **Open Data Space framework** includes projects such as the **Automotive and Battery Traceability Center.** Other international examples are India's **IUDX**, which addresses urban data exchange; Singapore's **TradeTrust**, which supports trusted digital trade; and the **international Manufacturing-X Council**, which further supports international cooperation between industrial data ecosystems.

06

Use Cases per Sector

Figure 2 shifts the focus from individual projects to the common use cases they address, and the figure summarizes the most common ones by sector. In Manufacturing, for example, recurring applications include supply-chain traceability, Digital Product Passports (DPPs), and predictive maintenance. In Energy, common use cases include energy flexibility, grid optimization, and energy-market data exchange. Health initiatives focus on secondary use of health data, data donation, and cross-border health records, while Mobility projects address passenger flow, traffic management, EV charging, and multimodal mobility. Across sectors, common themes include traceability, interoperable data exchange, and reusing information across organizational boundaries. Note that some sectors in the project landscape are not shown separately due to limited identifiable use cases.

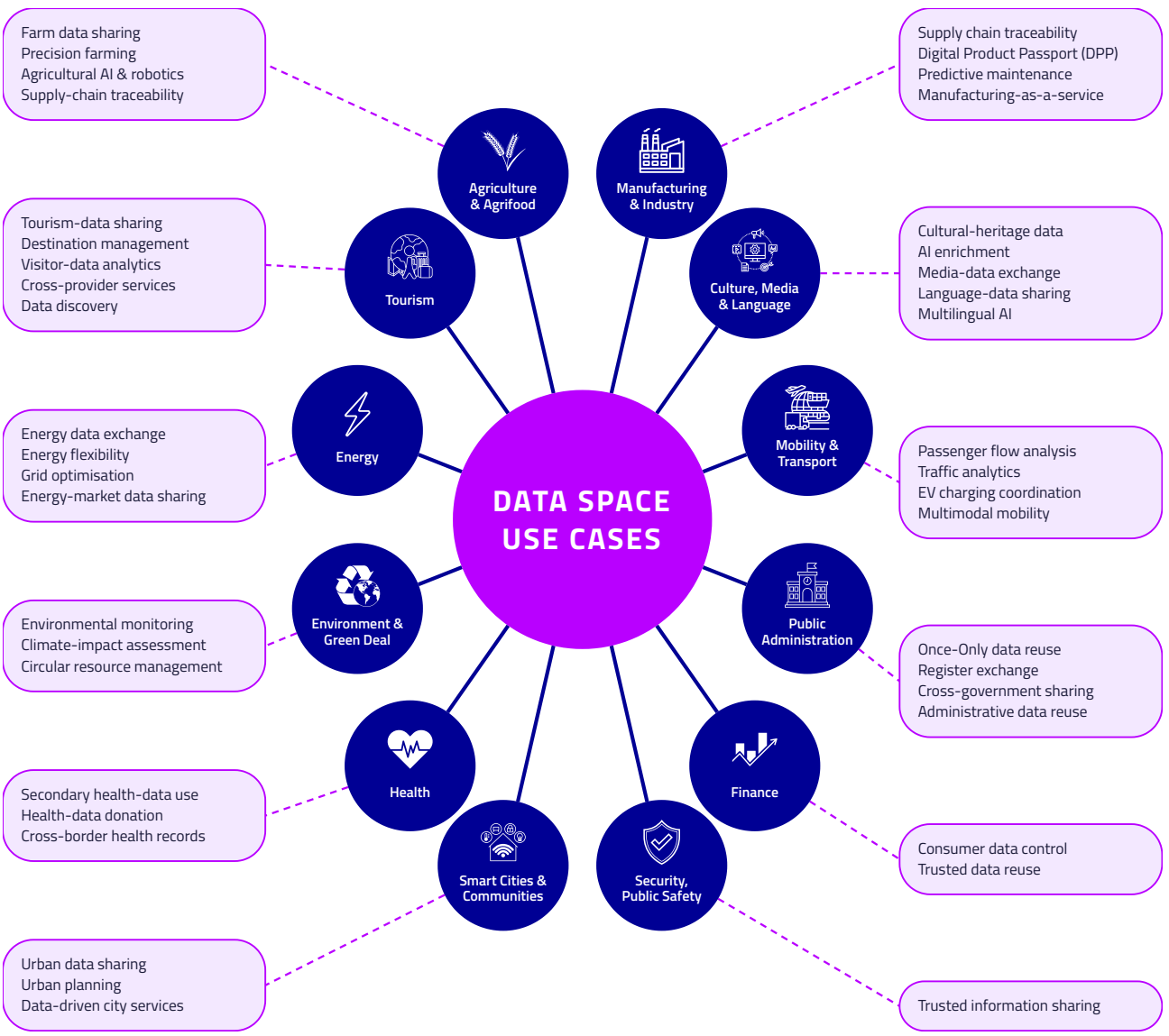


Figure 2 Selected use cases per sector.

07

Gap Analysis and Conclusion

The landscape mapping shows that data space applications are progressing at different speeds across sectors. While there are several projects and initiatives in Manufacturing, Energy, and Health, fewer concrete Austrian implementations were identified in Construction & Real Estate, Education & Skills, and Finance. This does not necessarily indicate a lack of activity in these sectors, but rather that dedicated data space projects, initiatives and/or applications are less visible.

A gap also exists between domain-level coordination and project implementation. Although Education is represented as a domain within Gaia-X Hub Austria, no concrete Austrian education-related data space project or initiative was identified. Existing national platforms such as ACONET and Single Digital Gateway (BKA), as well as the European initiatives DASES and DS4Skills, could offer potential reference points for future applications.

The landscape mapping also identifies sectors that are not currently represented by a domain page on the Gaia-X Hub Austria webpage:

- Finance
- Environment & Green Deal
- Research & Innovation
- Construction & Real Estate
- Culture, Media & Language
- Mobility, Transport & Logistics
- Cross-domain / cloud services

Regarding use cases, the desk research highlights opportunities to extend data space applications beyond the established sectors, drawing on experiences from European projects. In Construction, potential applications include trusted exchange of building and material data to support circular economy practices. In Education, interoperable skills and qualification data could support cooperation between educational institutions.

For Gaia-X Hub Austria, this landscape mapping provides an overview of how data space applications are developing across sectors in Austria. It highlights both areas of progress and sectors where activity remains limited. These findings can help the Austrian Hub to plan future activities, identify priorities, and consider which additional domains to establish.

References

[1] Common European Data Spaces: Shaping Europe's Digital Future (2026). Accessed November 2, 2026. digital-strategy.ec.europa.eu/en/policies/data-spaces

[2] FIWARE (2026). Accessed November 2, 2026. fiware.org/about-us

[3] Gaia-X Hub Austria (2026). Accessed November 2, 2026. www.gaia-x.at/en/gaia-x-austria

[4] Gaia-X: A Federated Secure Data Infrastructure. (2026). Accessed November 2, 2026. gaia-x.eu

Appendix

Websites of the projects and initiatives shown in Table 1, by sector and level.

Agriculture & Agrifood

AUSTRIA

Innovation Farm / Austrian Agricultural Data Space concept
www.innovationfarm.at

EUROPE

CEADS
ceads.eu

AgrospAI
agrospai.udl.cat/en

RegenAg-X
regenag-x.com

Manufacturing & Industry

AUSTRIA

AMIDS
www.amids.at

champI4.0ns
www.champi40ns.eu

EuProGigant
euprogigant.com

PASSAT: Digital Product Passport Austria and Beyond
projekte.ffg.at/projekt/1a94483e-f36b-1410-8634-00d3c07d99bb

Magna: Catena-X rollout
catena-x.net

EUROPE

Catena-X
catena-x.net

Factory-X
factory-x.org

EU DATA SP4CE
eudataspace.com/en

UNDERPIN
underpinproject.eu

SM4RTENANCE
sm4rtenance.eu

ACCURATE: Achieving Resilience Through Manufacturing as a Service, Digital Twins and Ecosystems
accurateproject.eu

Data4Industry-X
www.data4industry-x.com

FLEX4RES: Data Spaces for FLEXible production lines and supply chains FOR RESilient manufacturing
flex4res.eu

Smart Connected Supplier Network (SCSN)
smart-connected.nl/en

INTERNATIONAL

SHOES-X
shoes-x.net

Catena-X North America Hub (AIAG)
www.aiag.org/expertise-areas/data/aiag-catena-x-na-hub

International Manufacturing-X
www.plattform-i40.de/IP/Navigation/EN/Manufacturing-X/Manufacturing-X-International-Manufacturing-X-Council/Manufacturing-X-international-manufacturing-x-council.html

Automotive and Battery Traceablity Center
abtc.or.jp/en

Mobility, Transport & Logistics

AUSTRIA

KoDRM-AT
www.salzburgresearch.at/en/projekt/kodrm-at

CARINA
mobilitaetsprojekte.vcoe.at/projekt/carina-public-data-for-mobility-and-transport-2025

KI.Mobilität
kim-projekt.at/ki-in-der-mobilitaet

EUROPE

deployEMDS
deployemds.eu

EONA-X
eona-x.eu

GAIA-X 4 Future Mobility
www.gaia-x4futuremobility.de

Mobility Data Space (MDS)
mobility-dataspace.eu

INTERNATIONAL

TradeTrust
www.tradetrust.io

China Logistics Trusted Data Space
dataspace.chinaunidata.com

Energy

AUSTRIA

USEFLEDS
usefleds.forschung-burgenland.at

Energy Data Exchange Austria (EDA)
www.eda.at/?lang=en

EDDIE: European Distributed Data Infrastructure for Energy
eddie.energy

INSIEME
insieme.energy/index.html

EUROPE

OMEGA-X
omega-x.eu

Empower-X
empower-x.io

Data4NuclearX
gaia-x.eu/data4nuclearx-becomes-a-gaia-x-lighthouse-project

Energy data-X
www.energydata-x.eu

INTERNATIONAL

China Southern Power Grid Energy Trusted Data Space
www.nda.gov.cn/sjj/ywpd/sjzy/1111/20251111202015026919665_pc.html

Health

AUSTRIA

Smart FOX
www.smart-fox.at/en

d4Health Tirol
oecd.ai/en/dashboards/policy-initiatives/d4health-tirol

präNUDGE
prenudge.at

EXPEHDIA
projekte.ffg.at/projekt/f54e433e-f36b-1410-8661-00d3c07d99bb

EUROPE

MyHealth@EU: Austria implementation
www.gesundheit.gv.at/service/my-health-eu.html

HealthData@EU / EHDS2
data.health.europa.eu/healthdata-central-platform?locale=en

HEALTH-X dataLOFT
www.health-x.org/en/home

TEAM-X (Trusted Ecosystem of Applied Medical Data eXchange)
project-team-x.eu/en/home

Dataspace4Health
www.dataspace4health.lu

Smart Cities & Communities

AUSTRIA

datahub.tirol
datahub.tirol

smartdata.wien
digitales.wien.gv.at/projekt/plattform-smartdata-wien

ADUCAT
digitales.wien.gv.at/projekt/aducat

EUROPE

DS4SSCC-DEP
www.ds4sscc.eu

LDT CitiVERSE EDIC
ldtcitiverse-edic.eu

Community-X
gaia-x.eu/community/lighthouse-projects

INTERNATIONAL

India Urban Data Exchange (IUDX)
iudx.org.in

Shanghai Trustworthy Data Space
english.shanghai.gov.cn/en-Latest-WhatsNew/20250826/79d579c157c9467da35f810f84e1d756.html
www.shdataspace.com

Tourism

AUSTRIA

Tourism Data Space Austria
www.tourism-dataspace.com/de

Smart Tourism Hub Salzburg
www.smarttourismhub.at

EUROPE

EONA-X
eona-x.eu

DEPLOYTOUR
deploytour.eu

Environment & Green Deal

AUSTRIA

Green Data Hub / LiGDS
www.greendatahub.at

EUROPE

SAGE: Green Deal Data Space
www.greendealdata.eu

Construction & Real Estate

EUROPE

Digital TER-X 2050
digitalter-x.eu

DSGO (Digitaal Stelsel Gebouwde Omgeving)
www.digigo.nu/wat-is-dsgo

DigiBUILD
www.digibuild.com

Education & Skills

EUROPE

DS4Skills

Finance

EUROPE

The European Data Trustee (EuroDaT)
www.eurodat.org/en

INTERNATIONAL

Consumer Data Right (CDR)
www.cdr.gov.au

Public Administration

AUSTRIA

dadeX / Once-Only Platform
www.digitalaustria.gv.at/verwaltung/egovernment/dadex.html

EUROPE

Public Procurement Data Space
www.public-procurement-data-space.europa.eu/en

Security, Critical Infrastructure & Public Safety

AUSTRIA

PeaceTech Alliance
peacetech-alliance.com

EUROPE

COOPERANTS (Collaborative Processes and Services for Aeronautics and Space)
cooperants.de

DECADE-X
www.decade-x.org

Culture, Media & Language

AUSTRIA

Kulturgüterschutz4.0
www.kiras.at/en/financed-proposals/detail/kulturgueterschutz40

EUROPE

TEMS: Trusted European Media Data Space
tems-dataspace.eu

AI4Culture
ai4culture.eu

European Language Data Space
language-data-space.eu

Research & Innovation

EUROPE

EOSC Federation
eosc.eu/building-the-eosc-federation

FAIR Data Spaces
www.nfdi.de/fair-data-spaces

Cross-domain / cloud services

EUROPE

Pontus-X
docs.pontus-x.eu

Prometheus-X
prometheus-x.org

Boot-X
www.boot-x.eu

Dynamo
www.dynamo.cloud

InfraDS (website coming soon)
gaia-x.eu/community/lighthouse-projects

Sovereign Cloud Stack (SCS)
sovereigncloudstack.org

Structura-X
gaia-x.eu/structura-x-lighthouse-project-for-european-cloud-infrastructure-is-launched-concrete-implementation-and-alignment-with-the-gaia-x-roadmap-of-compatible-services

INTERNATIONAL

Open Data Spaces
www.ipa.go.jp/en/digital/opendataspaces

gaia-x
Hub Austria

Let’s stay connected

Gaia-X Hub Austria connects business, research and public administration around a shared goal: enabling organisations to exchange and use data while retaining control over it.

Scan the QR code and follow Gaia-X Hub Austria on LinkedIn for news, events and insights.

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