

# Data Spaces

## 12:00 Symposium

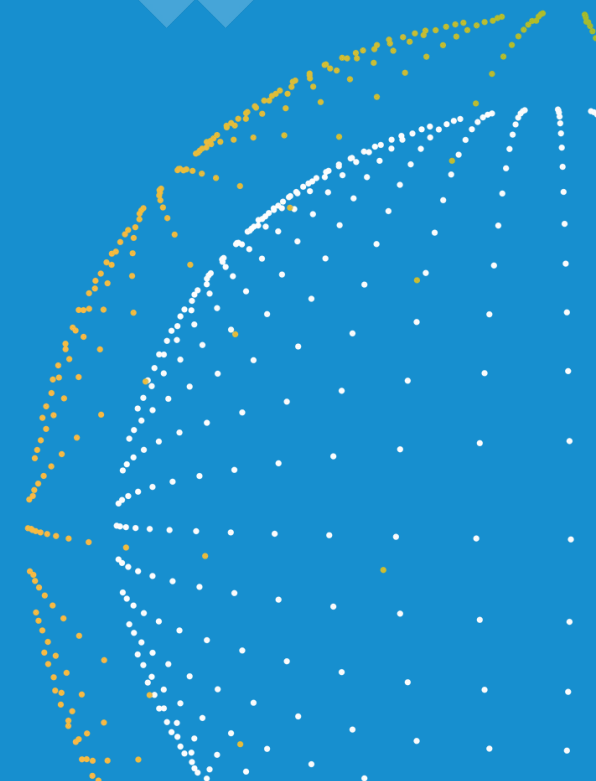
### DSBA Hubs Pilot

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Ana Garcia, Carlos Gonzalez, Daniel Sáez-Domingo,  
Sergio Mayo Macías, Francisca Rubio, Alberto Berreteaga  
& Oscar Lázaro

The logo for DataWeek 24 is located in the top right corner. It features the text ".DATAWEEK<sup>24</sup>" in a bold, white, sans-serif font. Below this, the tagline "JOIN.LEARN.SHARE.GET VALUE" is written in a smaller, white, sans-serif font. The text is centered within a large, light blue diamond shape that has a grid pattern of darker blue squares.

**.DATAWEEK<sup>24</sup>**  
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# DSBA Hubs Pilot

**12/03/2024 12:00-13:00 (CET)**

Ana Garcia, BDVA

Carlos Gonzalez, IDSA

**.DW<sup>24</sup>** under the umbrella of:  
**Data Spaces Symposium**  
**Unite. Innovate. Adopt.**

**Darmstadtium | Frankfurt region**



Funded by  
the European Union

The Data Spaces Support Centre receives funding from the European Union Digital Europe Programme under grant agreement n° 101083412

DSBA



BDVA

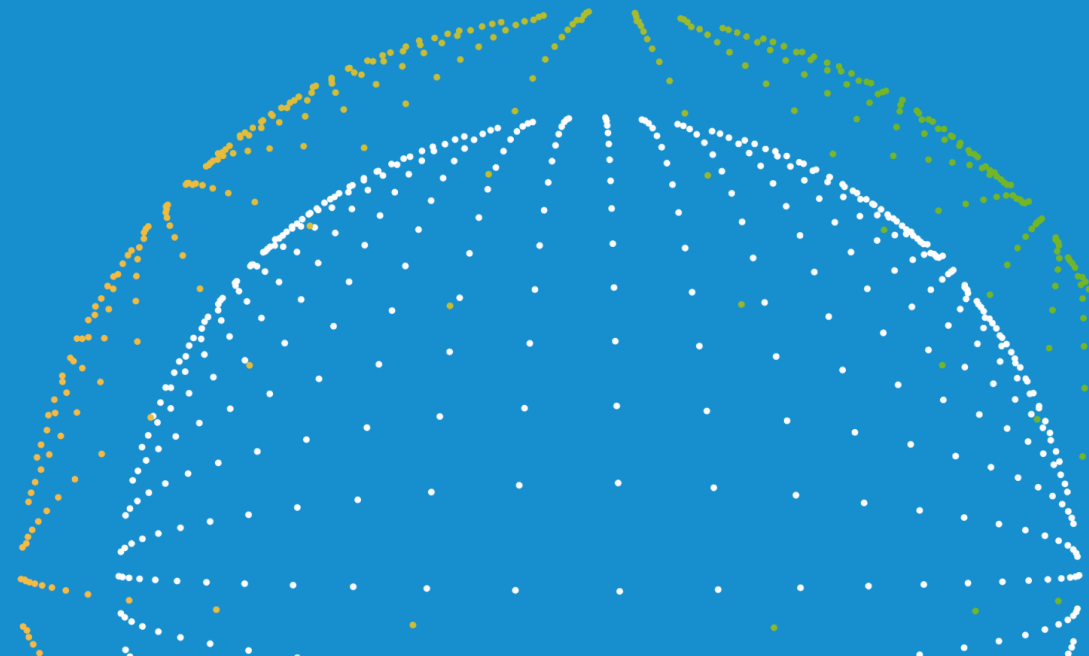
FIWARE  
FOUNDATION

gaia-x

INTERNATIONAL DATA  
SPACES ASSOCIATION



DATA SPACES  
SUPPORT CENTRE



# DSBA HUBS LANDSCAPE



## Gaia-X HUBS

- \* National Hubs
- \* Europe
- 01 Austria
- 02 Belgium
- 03 Finland
- 04 France
- 05 Germany
- 06 Greece
- 07 Hungary
- 08 Italy
- 09 Japan
- 10 Luxembourg
- 11 Netherlands
- 12 Poland
- 13 Portugal
- 14 Romania
- 15 Slovakia
- 16 Slovenia
- 17 South Korea
- 18 Spain
- 19 USA, California
- 20 USA, Texas
- 21 USA, Washington DC



## IDSAs HUBS & COMPETENCE CENTRES

- \* National Hubs
- \* Regional Competence Centers
- \* Europe
- 01 Belgium, facilitated by IMEC Leuven
- 02 Bulgaria, facilitated by GATE Sofia
- 03 Czech Republic, facilitated by Czech Technical University Prague
- 04 Finland, facilitated by VTT Espoo
- 05 France, facilitated by IMT Paris
- 06 Greece, facilitated by CERTH/ITI Thessaloniki
- 07 Italy, facilitated by Cefriel Milan
- 08 Poland, facilitated by PSNC Poznan
- 09 Spain, facilitated by Innovalia Association Bilbao
- 10 The Netherlands, facilitated by TNO The Hague
- 11 CFIEC, China Future Internet Engineering Center Beijing, China
- 12 Fraunhofer ISST Dortmund, Germany
- 13 L3S Research Center, Leibniz University Hannover, Germany
- 14 LMS, University of Patras Patras, Greece
- 15 MediTech 4.0, Mediterranean Competence Center 4 Innovation Naples, Italy
- 16 Tecnalia Bilbao, Spain



## FIWARE iHUBS

- \* Regional Hubs
- \* Europe
- \* Global
- 01 A. Castro Servicios & Tecnología Montevideo, Uruguay
- 02 Astrid Wolfsburg, Germany
- 03 ATIO Barcelona, Spain
- 04 Centifo Hub Grasse, France
- 05 Ciudades del Futuro iHub Buenos Aires, Argentina
- 06 Detecon FIWARE iHub Cologne, Germany
- 07 DigiCity Connect Atlanta, USA
- 08 DIHBAI-TUR Balearic Islands, Spain
- 09 Faubourg Numérique Saint-Quentin, France
- 10 FiiHub Azores DIH Azores, Portugal
- 11 FiiHub Canary Islands Tenerife, Spain
- 12 FIWARE iHUB UPB Medellin, Colombia
- 13 FIWARE Innova iHub Perugia, Italy
- 14 FIWARE OIL iHub Lund, Sweden
- 15 FIWARE Space Bajadaz, Spain
- 16 FIWARE Zone Seville, Spain
- 17 Future City iHub Amersfoort, Netherlands
- 18 Hellenic FIWARE iHub Athens, Greece
- 19 IDEASFORUM Herne, Germany
- 20 I Hub Base Tokyo, Japan
- 21 iHub FIWARE Bridge Tunis, Tunisia
- 22 IoT Lab iHub Geneva, Switzerland
- 23 La Lonja de la innovación Hulevao, Spain
- 24 LaNIF México City, Mexico
- 25 Madeira FiiHub FIWARE iHub Madeira, Portugal
- 26 Marso iHub Bogota, Colombia
- 27 Maroc Numeric Cluster Casablanca, Morocco
- 28 MEDIHub Napoli, Italy
- 29 MIL Al-Madinah, Saudi Arabia
- 30 MindfulTech Institute Gatineau, Canada
- 31 MOA GLOBAL Santana de Parnaiba, Brazil
- 32 Nivid Technologies Sterling, USA
- 33 North Iberia FIWARE iHub La Rioja, Spain
- 34 Open MemoryLab FIWARE iHub Mikkeli, Finland
- 35 Pleiades IoT Innovation Cluster Athens, Greece
- 36 Smarta Byar Smart Village Community Brookline, USA
- 37 The Texas Project iHub Austin, USA
- 38 TOURiLab Fuerteventura, Spain
- 39 Urban SP Miami, USA



## BDVA i-SPACES

- \* Regional Hubs
- \* Europe
- Gold
- 01 Attica Hub for the Economy of Data and Devices Athens, Greece
- 02 AIR4S (Universidad Politécnica de Madrid) Madrid, Spain
- 03 Aragón DIH (ITA) Aragón, Spain
- 04 BIGDATACoE (Eurecat) Barcelona, Spain
- 05 CeADAR Dublin, Ireland
- 06 DIH GIGAL Vigo, Spain
- 07 ICE Data Center (RISE) Luleå, Sweden
- 08 ITI Valencia, Spain
- 09 Know-Center Graz Graz, Austria
- 10 EGI Amsterdam, Netherlands
- 11 Gemini (Sintef) Trondheim, Norway
- 12 SCAI (CINECA) Bologna, Italy
- 13 Stichting Smart Connected Supplier Network Eindhoven, Netherlands
- 14 PRODUTECH DIH Porto, Portugal
- 15 TeraLab (Institut Mines-Télécom) Paris, France
- 16 Algebra Lab Zagreb, Croatia
- 17 Belgrade Data Innovation Hub Belgrade, Serbia
- 18 Cybersecurity Hub, z.s. Czech Republic
- 19 DataLife Santiago de Compostela, Spain
- 20 DIH4ISEC Leibniz, Germany
- 21 DIH TECHNICOM Košice, Slovakia
- 22 ECIPA Venice, Italy
- 23 Edinburgh International Data Facility (EPCC) Edinburgh, United Kingdom
- 24 HPC4Poland (Poland Super Computing Centre) Poznan, Poland
- 25 Latvian IT Cluster DIH Riga, Latvia
- 26 Linz Center of Mechatronics GmbH Linz, Austria
- 27 nZEB Smart Home DIH Thessaloniki, Greece
- 28 Machine Intelligent Garage London, UK
- 29 MediTech Naples, Italy
- 30 Plan4All Horni Brza, Czech Republic
- 31 Ruder Bošković Institute Digital Innovation Hub Zagreb, Croatia
- 32 Smart Data Innovation Lab (KIT) Karlsruhe, Germany
- 33 Transilvania Digital Innovation Hub Cluj-Napoca, Romania
- 34 Innovation Cluster Drachten (ICD) Drachten, Netherlands
- 35 Minasmart Grenoble, France
- 36 Munich Innovation Hub for applied AI Munich, Germany
- 37 UDG Donja Gorica, Montenegro

EUROPE



GLOBAL



## FILTERS

Name

Networks

- BDVA iSpace
- FIWARE iHub
- Gaia X
- IDSA Hubs & CC

Sectors

- Aerospace
- Agriculture / Agrifood
- Cultural heritage
- Energy
- Finance

<https://data-spaces-business-alliance.eu/>

## HUBS MAP

A. Castro Servicios & Tecnología

**FIWARE iHub** Basic

Website: <https://www.arnaldocastro.com.uy/>

Contact email: [juan.mezzera@arnaldocastro.com.uy](mailto:juan.mezzera@arnaldocastro.com.uy)

**Agriculture / Agrifood** **Smart Cities** **Public Sector**

**Ecosystem building and policy engagement** **Infrastructure access** **Training**

Uruguay - Montevideo - A. Castro Servicios & Tecnología

ahedd Digital Innovation Hub

**BDVA iSpace** Platinum

Website: <https://ahedd.demokritos.gr/>

Contact email: [info@ahedd.demokritos.gr](mailto:info@ahedd.demokritos.gr)



# Objectives of this workshop

## 1. Pave the way to the first national Pilot

- Define the concept of „DSBA Hub“
- Discuss and exchange on collaboration at a national level

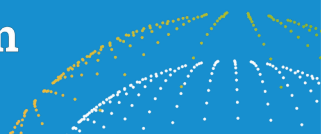
## 2. Get to know each other!

- Present each organization and role as a hub from each association
- Share individual best practices



# Objectives of this workshop

- What is there to discuss?
  - Identifying common goals
  - Defining Roles and Responsibilities
  - Spot collaborative projects
  - Resource sharing among hubs
  - Establishing communication channels



# .DATAWEEK<sup>24</sup>

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# Thank you!



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DSBA



## Data Spaces Symposium

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Darmstadtium | Frankfurt region



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Daniel Sáez-Domingo, ITI

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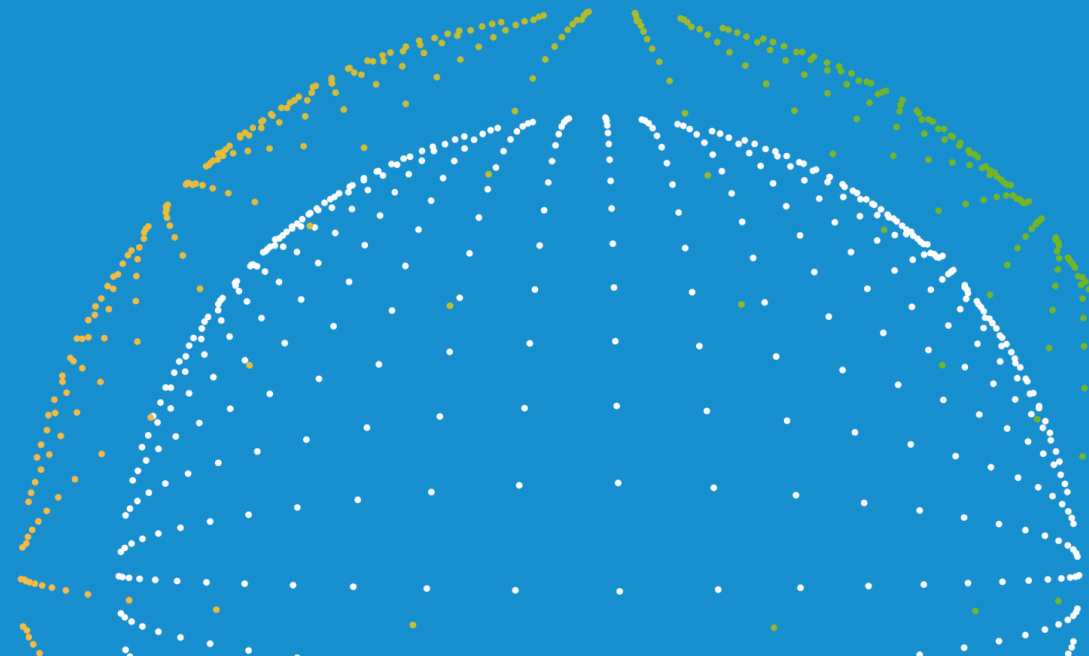


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# DSBA Hubs: i-Spaces

ITI EXPERIENCE



**ITI** INVESTIGATE  
TO INNOVATE



**Daniel Sáez-  
Domingo**  
([dsaez@iti.es](mailto:dsaez@iti.es))

Strategic Intelligence and Technology Transfer Director in ITI  
Coordinator of ITI Innovacion Space (**i-Space Platinum BDVA**)  
President of Spanish **Gaia-X Hub**  
Member of **IDSA**  
Member of Board of Directors of **BDVA** and **GAIA-X**

# Why i-Spaces?

AI Innovators need **data computing power at hand** (now!)

SMEs need support to become data-driven and **join data ecosystems**

Companies get more and more interest on **data ethics**

**Fair data value chains** still need to be invented

Data owners (really big data holders) need **incentives to share**

New AI and Data **regulations** bring challenges for innovators

**Skills** development, access to **secure experimentation and open innovation** seem to be more important than ever

# How?

“A GROUP OF ORGANIZATIONS WHICH HAVE DEVELOPED STRONG BUSINESS AND HUMAN ECOSYSTEMS AROUND SECURE DATA-SHARING AND EXPLOITATION DECIDED TO JOIN FORCES TIME BACK....” GRASSROOT INITIATIVE



“THEY CREATED A QUALITY LABEL FOR INNOVATION DATA SPACES (CALLED I-SPACE LABEL) AS A WAY TO BENCHMARK, PROMOTE AND EVOLVE THEIR AMBITIONS AND COMMUNITY...” THE QUALITY LABEL THIS IS THE I-SPACES COMMUNITY !!





i-Spaces are **ecosystems** with powerful infrastructures, knowledge, tools, data, ... ready to provide services for the **experimentation** and innovation with **Data and AI.**

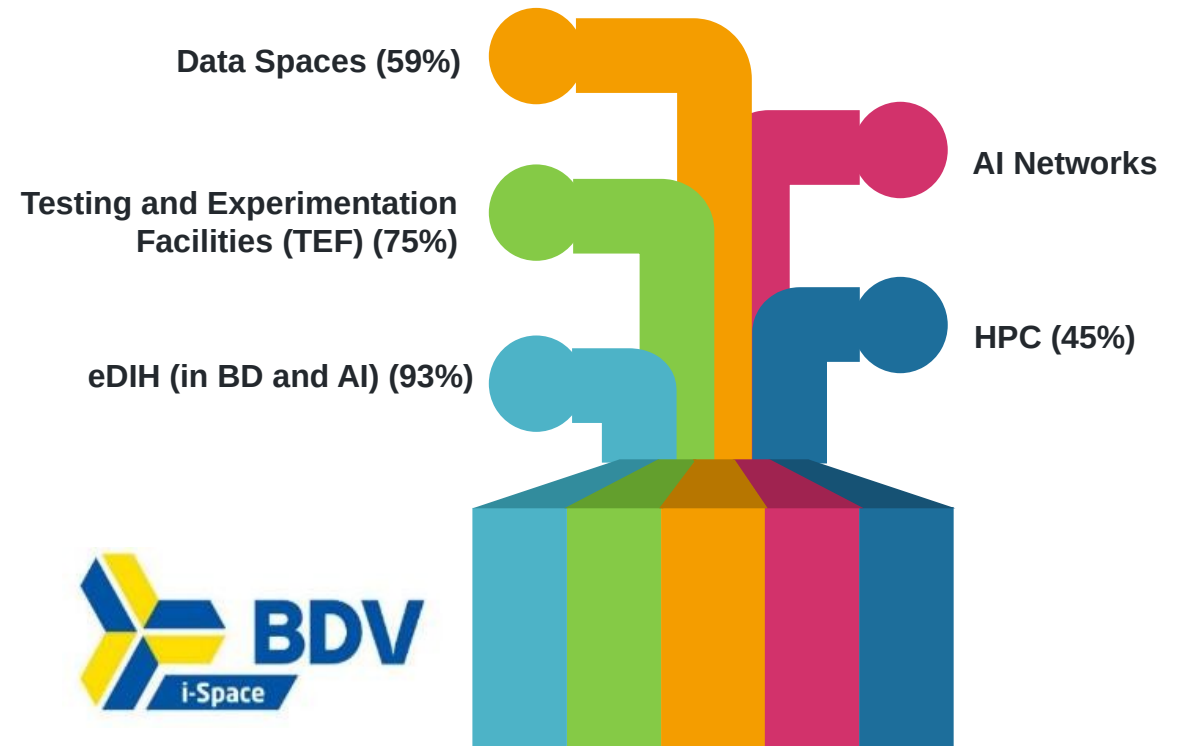


We have a close contact and are well known and recognized in our local ecosystems (**TRUST**) and are also very well connected globally, as stars of an impressive constellation around Data and AI.



That, gives the capacity  
to i-Spaces of making  
things happen

**THESE ORGANISATIONS  
ARE AT THE CORE OF HPC,  
AI TEFS, EDIHS, DATA  
SPACES ... AND  
TOGETHER CREATE A  
SUPER-CORE FOR  
EUROPE. THESE  
ORGANISATIONS ARE  
RELEVANT!**



# Spanish i-Spaces (*TRUST*)

Powerful infrastructures, knowledge, tools, data, ... ready to provide services for the experimentation and innovation with Data and AI:

10.000+ SMEs already using the services

The map shows various i-Spaces across Spain, each identified by a number in a colored pin. Surrounding the map are logos for several key partners: CiH DATAlife, eurecat, EDIH ARAGON EUROPEAN Digital Innovation Hub, INCLIVA | VLC Biomedical Research Institute, POLITÉCNICA, and ITI INVESTIGATE TO INNOVATE.



Data & AI sandbox



Accelerators of data driven innovation



Access point for SMEs and start-ups to the data economy

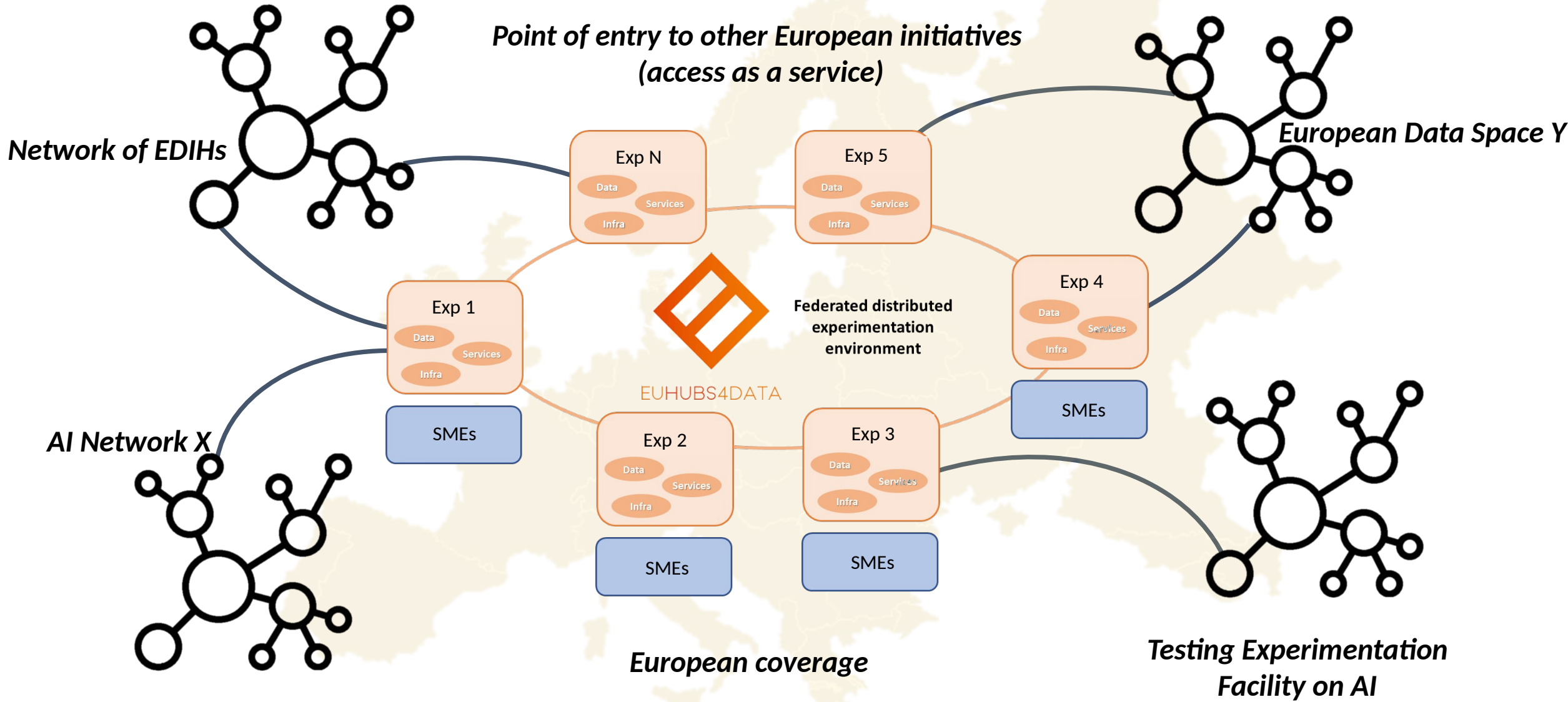


AI and data ethics



Training hub for data and AI

# Network of connected experimentation sites



# ITI i-SPACE



# ACCELERATING THE ADOPTION OF INNOVATIVE DATA & AI TECHNOLOGIES BY THE ECONOMY

The largest Technology Centre in Europe  
focused on Data & AI

Key player in eDIH, AI Network of  
excellence & Data Spaces

**6+M€** investment yearly in Data & AI

 **WISEPHERE** technology stack

**250+** companies formally linked

**500+** companies in our ecosystem



# Our Value Proposition: ITI Data Innovation Space



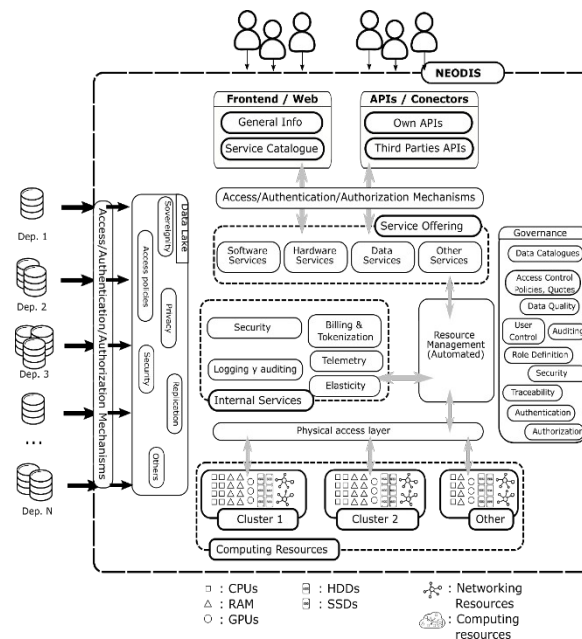
Knowledge for on-boarding in the digitization and extraction of value from data



Model, tools and knowledge to deploy a data exploitation space



Own infrastructure and tools to host experiments and professional data exploitation



Enriched node providing:

- Data Quality
- Data Governance
- Data Ingestión
- Data Storage
- Data Sharing
- Data Processing
- Access control and security



**A Data Space in itself**  
Able to **connect to other nodes** and enlarge the Data Space opening the door to the

Universe of Data and AI Training

## Experimentation Space

- Access to datasets
- Access to infrastructures and tools
- Support to experiments
  - Feasibility analysis
  - Proof of concept
  - Prototyping
- Data and Services Marketplace
- Selection and testing of technologies

## Data management consultancy

- Advice on data sharing, governance, sovereignty, ...
- Advice on legal and ethical aspects
- Advice on data transformation processes (curation, anonymization, ...)
- Enablement in Big Data Analytics

- Technique
- Infrastructure deployment
- Data governance
- Business





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Alberto Berreteaga, Tecnalia

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Big Data Value  
Association



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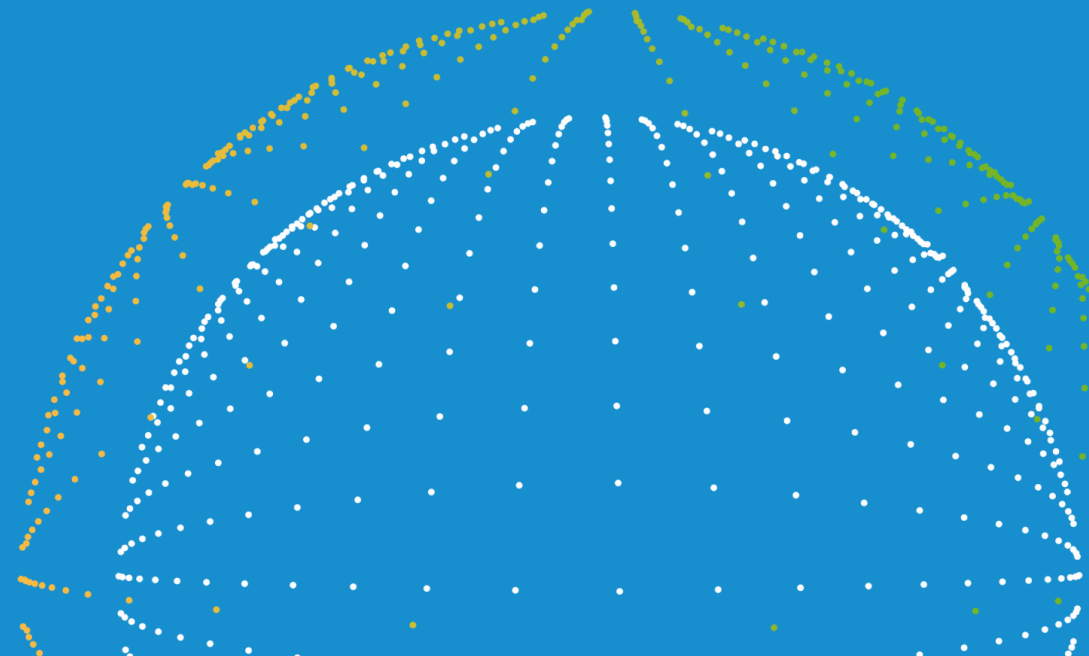


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**TECNALIA is the largest center of applied research and technological development in Spain**, a benchmark in Europe and a member of the Basque Research and Technology Alliance. We collaborate with companies and institutions to improve their competitiveness, people's quality of life and achieve sustainable growth. We do it thanks to people who are passionate about technology and committed to building a better society.



## **COMPETENCE CENTER SPAIN**

As **IDSA Competence Center and Implementation Partner**, TECNALIA became the Spanish national benchmark center to promote IDS, develop new business models based on this technology, and guide companies when integrating their own data control processes.



**IDSA Member, IDSA Competence Center Spain:** European and national R&D projects, (pre-production) pilots, consultancy and dissemination support. Alberto Berreteaga as IDSA Ambassador and IDSA Competence Centre Coordinator - <https://internationaldataspaces.org>

**BAIDATA** Partner - <https://www.baidata.eu/en>

**ECLIPSE Dataspaces WG** Member - <https://dataspace.eclipse.org>

Data Spaces Support Centre: not partner but supporting initiatives / working groups: Governance, Technology and Business.

**Gaia-X Hub España** (Gaia-x Spain Hub) member. Jesus Maria Santamaria as Gaia-X Hub Spain CTO. - <https://www.gaiax.es>

[dataspaces@tecnalia.com](mailto:dataspaces@tecnalia.com) – [alberto.berreteaga@tecnalia.com](mailto:alberto.berreteaga@tecnalia.com)

<https://www.tecnalia.com/en/>

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Francisca Rubio, Gaia-X

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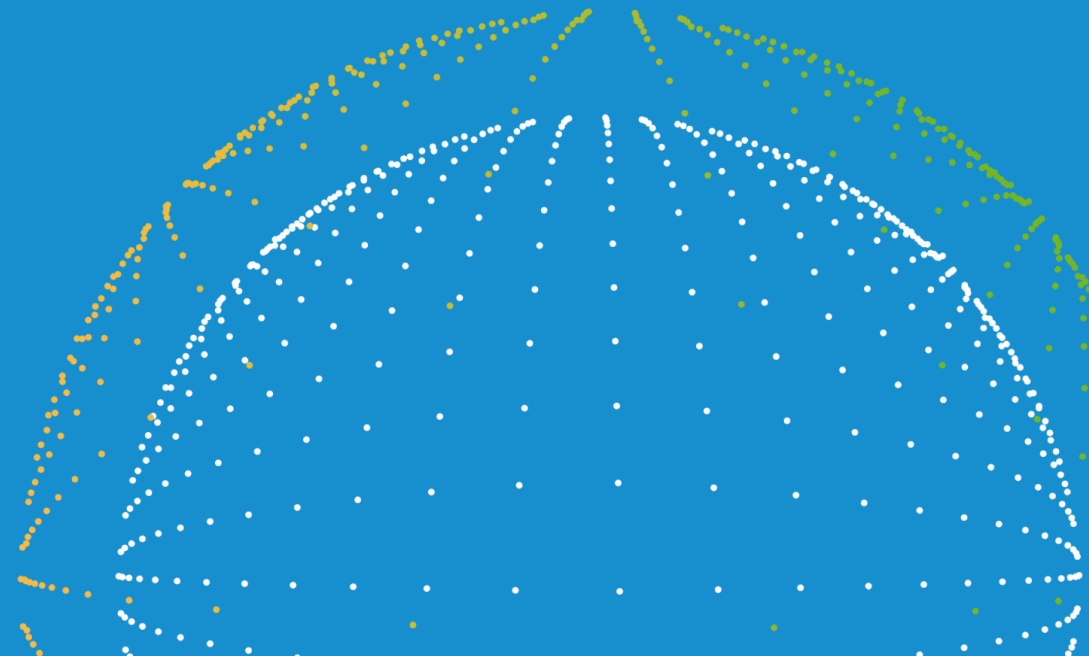


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# Gaia X España

INNOVATING FROM TRUST



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Hub España

# Gaia X Spain mission

The purpose of the Association is to drive the **data-driven economy** through the development of initiatives, infrastructures, services, tools and applications for the controlled, secure and federated sharing of data, mainly using open source software technologies and standards and respecting the ethical principles.

This drive will seek to increase **digital sovereignty and position Spain**, in the international ecosystem, as an agent that generates and exploits innovative technologies around data that creates wealth for society and provides confidence to citizens and companies.

The Association must guarantee, in all cases, the transparency of its actions and full **compliance** with current regulations.

# Gaia X Spain Focus

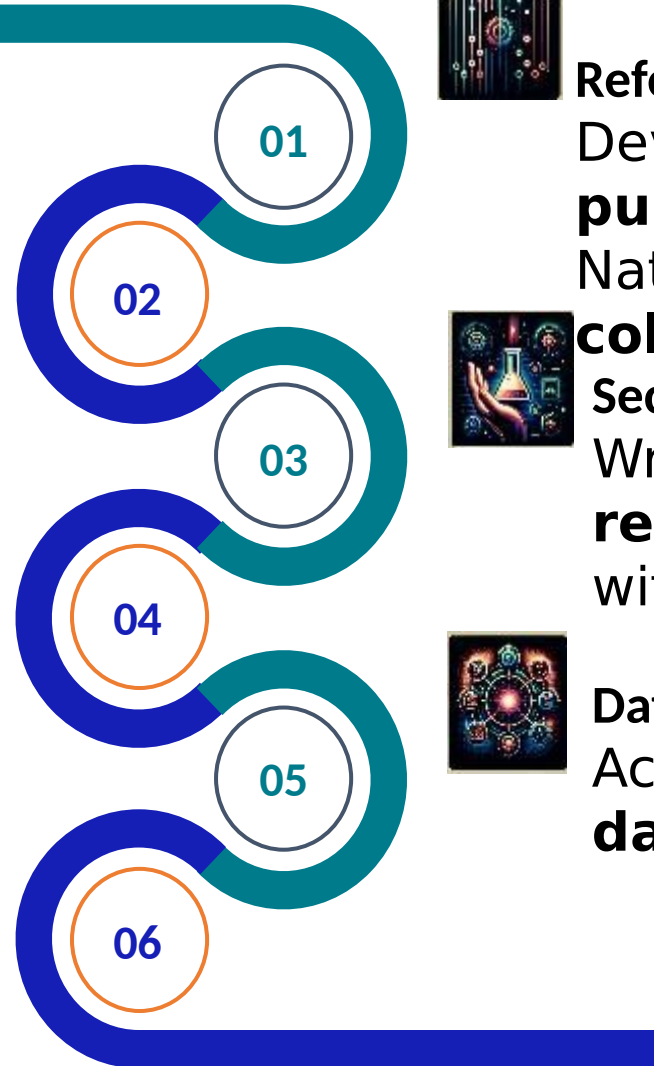
**Dissemination**  
Dissemination, promotion,  
training, Hackathons,  
Datathons, webinars, events,  
conferences...



**Technological support**  
Very powerful  
technological Working  
group to support new  
projects



**Testing**  
Creation of testing spaces.  
GXDCH available for testing



## Reference point

Development and support **of public-private** data spaces. National and international



## collaboration

### Sector data spaces

Writing of state of the art **reports** by sector. Alignment with DSSC

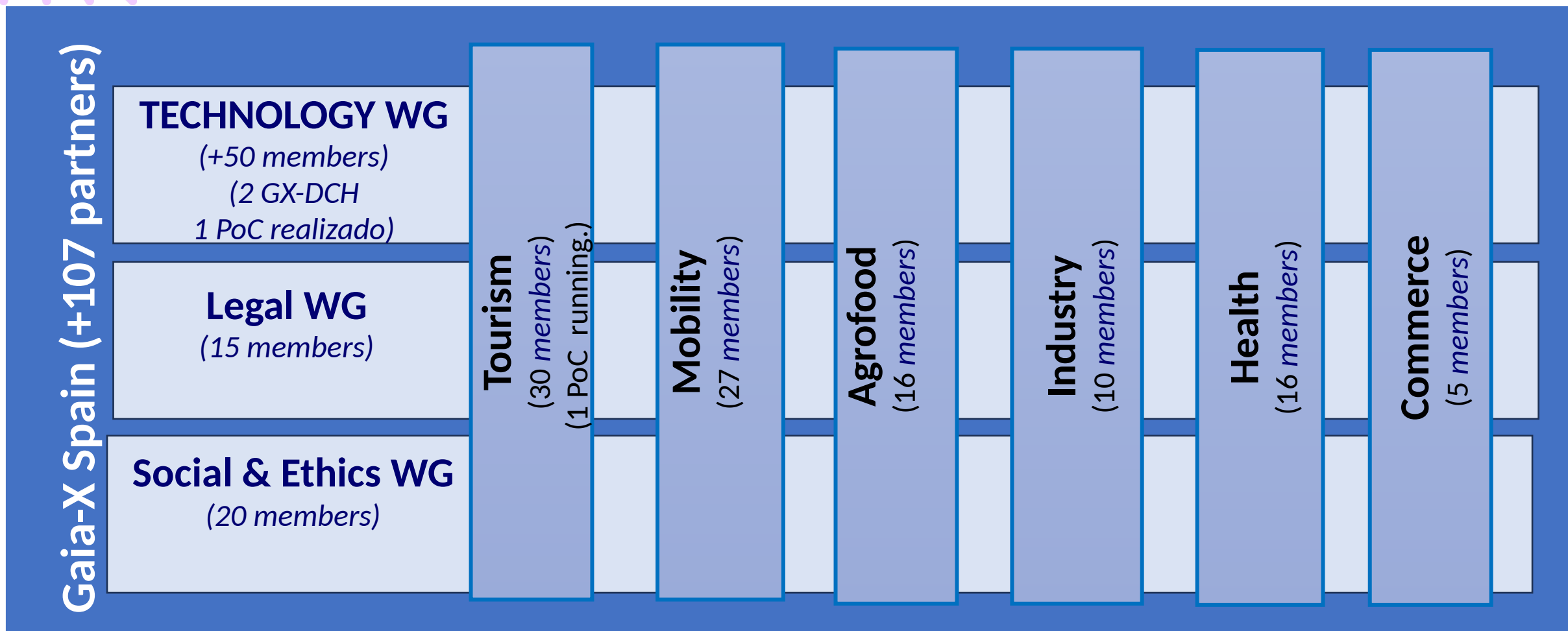


## Data intermediary

Acceleration of the creation of **data intermediary** proposals



# Working groups Gaia X Spain



# Gaia X Spain activities and achievements



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Hub España

- Dynamization of Ministry Data Spaces calls of €200M. Contacts with more than 100 entities to promote projects and solve questions. Call specify all European initiatives (DSBA, IDSA, FIWARE, Gaia X, BDVA, SIMPL...)
- Events: 28 in 2023, 9 in 2024 and 15 in preparation (both online and in person)
- 107 partners. 9 ongoing working groups: 6 vertical / 3 horizontal
- Publications: DS report in mobility and Tourism. Tourism data spaces ebook. Article about credentials in data spaces. 3 more articles in preparation
- Approved strategic plan for carrying out projects, dissemination, technical support and relationship with Europe
- Development of a proof of concept in Tourism. In preparation a Lighthouse
- Dynamization of development of two Digital Clearing houses
  - Aire Network (already validated. Contract in progress)
  - Arsys (validation and contract in progress)

# Gaia X Spain activities in Gaia X AISBL



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Hub España

## Activities and achievements

- President of Gaia X Spain is member of board of Directors of AISBL
- Gaia X Spain is member of Gaia X AISBL
- Support of Gaia X Spain in Summit Alicante 2023
- Gaia X Spain participates in AISBL hubs meetings (online and in person). Support to:
  - Communication actions
  - Coordination actions
  - Update of hub's activities
  - Collaboration with other hubs
- Some of Gaia X Spain partners participates actively in AISBL technical meetings
- High interest of new endorsement program and label proposal (accredited, powered by...)
- Events: AISBL webinar in Spain in preparation

# Current convergence actions



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Hub España

## Activities and achievements

- Working group of Technology with several convergence sub Working

### Groups

- SubWG: FIWARE (FIWARE, Libellium, dip Badajoz, Elliot Cloud, Bosonit, Arsys)
  - Convergence meetings with Gaia X Spain and FIWARE community
  - Integration of FIWARE connector in Spanish Clearing House (Arsys). Modification of connector in progress
  - First Project of integration (dip. Badajoz) in preparation
- SubWG: IDSA (Tecnalia, Tekniker, Ikerlan, Vicomtech, Gradient, i2cat, Arsys, Xitaxo...)
  - Proposal of Architecture of convergence
  - IDSA team integration and first example in preparation
  - Integration of Eclipse connector
- Guidelines: Writing of complete Data Spaces guidelines in preparation. Due to Spanish call of 200M€
- Events: Celebration of joints events

# DSBA hub actions proposal



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Hub España

## Activities and achievements

- Coordinated Working groups of convergence
  - Work together with convergence group in Europe
- SubWG FIWARE and IDSA:
  - Follow up of Modification of connectors and / or Clearing house
  - Promotion of integration projects in Spain
- Promotion of use of joint experimental data spaces developed by i-spaces of BDVA
- Guidelines:
  - Needs of clear Data Spaces guidelines including different technologies
- Events: Celebration of joints events
- Coordination: Periodic meeting to coordinate actions and proposals



**Thanks**

# Data Spaces Symposium

13:00

Lunch

---

Feel free to grab your meals and relax.

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aws

gaia-x  
Hub Germany

Google Cloud

iSHARE

ubiwhere

Capgemini

esi

Enershare

ZOOM

LIBRe

Lightcast

SOViTy

Spotted

we  
transform

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Sergio Mayo Macías, ITAINNOVA

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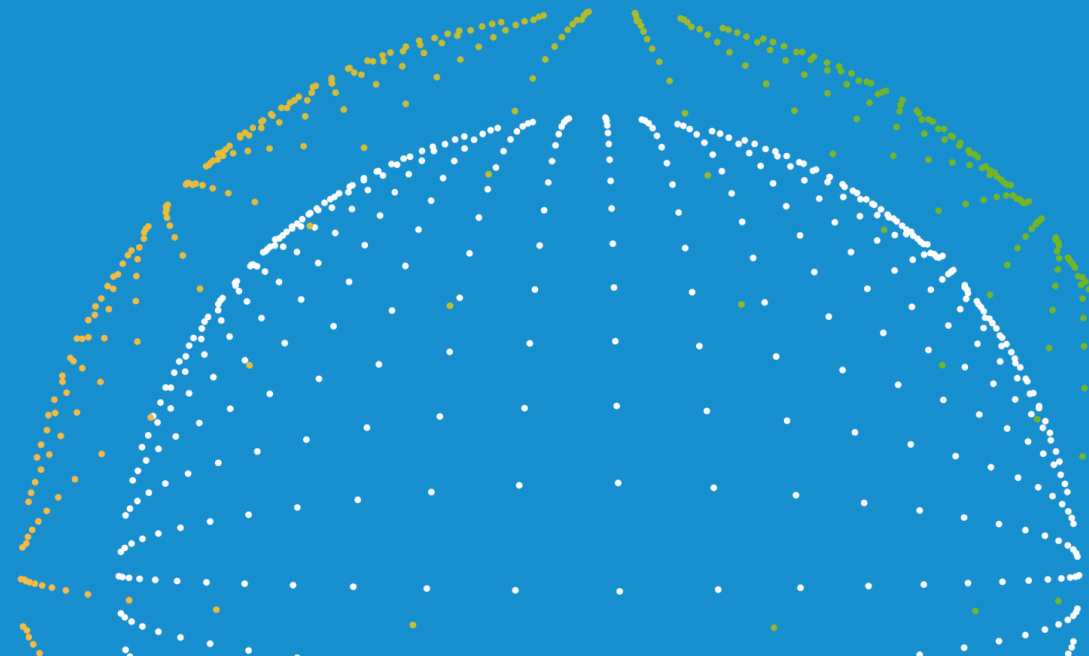


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SUPPORT CENTRE







# Aragón EDIH - iSpace

## DSBA Hub Pilot Slot – DataWeek 2024

**Darmstadt – March 12<sup>th</sup> 2024**

Aragón DIH is a service for the digitization of companies promoted by the Technological Institute of Aragón, the Aragonese Institute of Development and the University of Zaragoza.





# Aragón EDIH



*Boost your company's digital future with Aragón EDIH!*



**Cognitive Systems and HPC Cloud**



# Value Proposition: Integating DataSpaces in EU Ecosystem



**AIMatters**  
 Testing and Experimenting Facilities (TEF) in MANUFACTURING  
 Duration in months: 60  
 Partners: 25  
 Budget: 7,5 M€



**EUHUBS4DATA**  
 EUROPEAN FEDERATION OF DATA DRIVEN INNOVATION HUBS

**EUHubs4Data FEDERATION**  
 European Federation of Data Driven Innovation Hubs

