

The ecosystems of HPC and Big Data/AI: what can they learn from each other?

BDVA intro

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BDV BIG DATA VALUE
ASSOCIATION



Industry-driven
research and innovation
community with more
than **230 members** all
over Europe. And
growing!!

Data Strategy



AI Strategy



Digital Transformation and Digital Decade



European Ecosystem



Network of Collaborations

Big Data Value cPPP



AI, Data and Robotics Partnership



EuroHPC JU

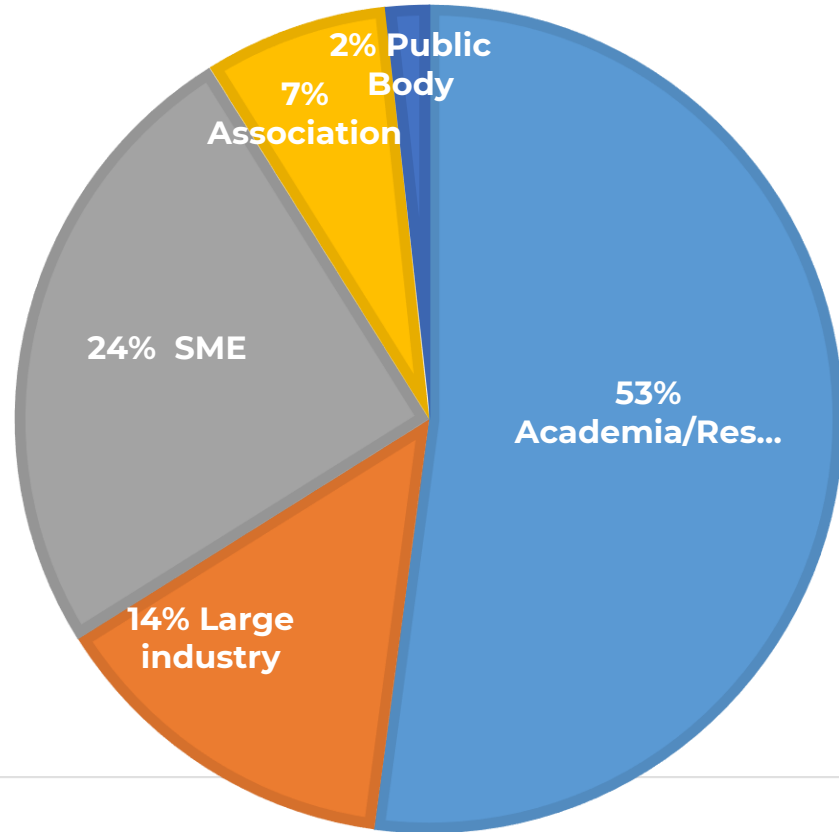


Data Spaces Business Alliance (DSBA)



BDVA/DAIRO MEMBERS

■ Academia ■ Large ■ SME ■ Association ■ Public Body

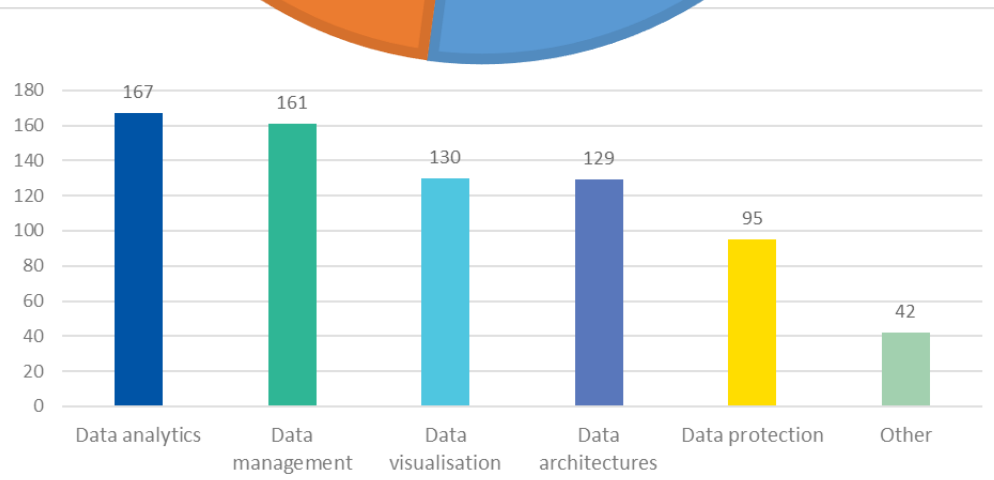
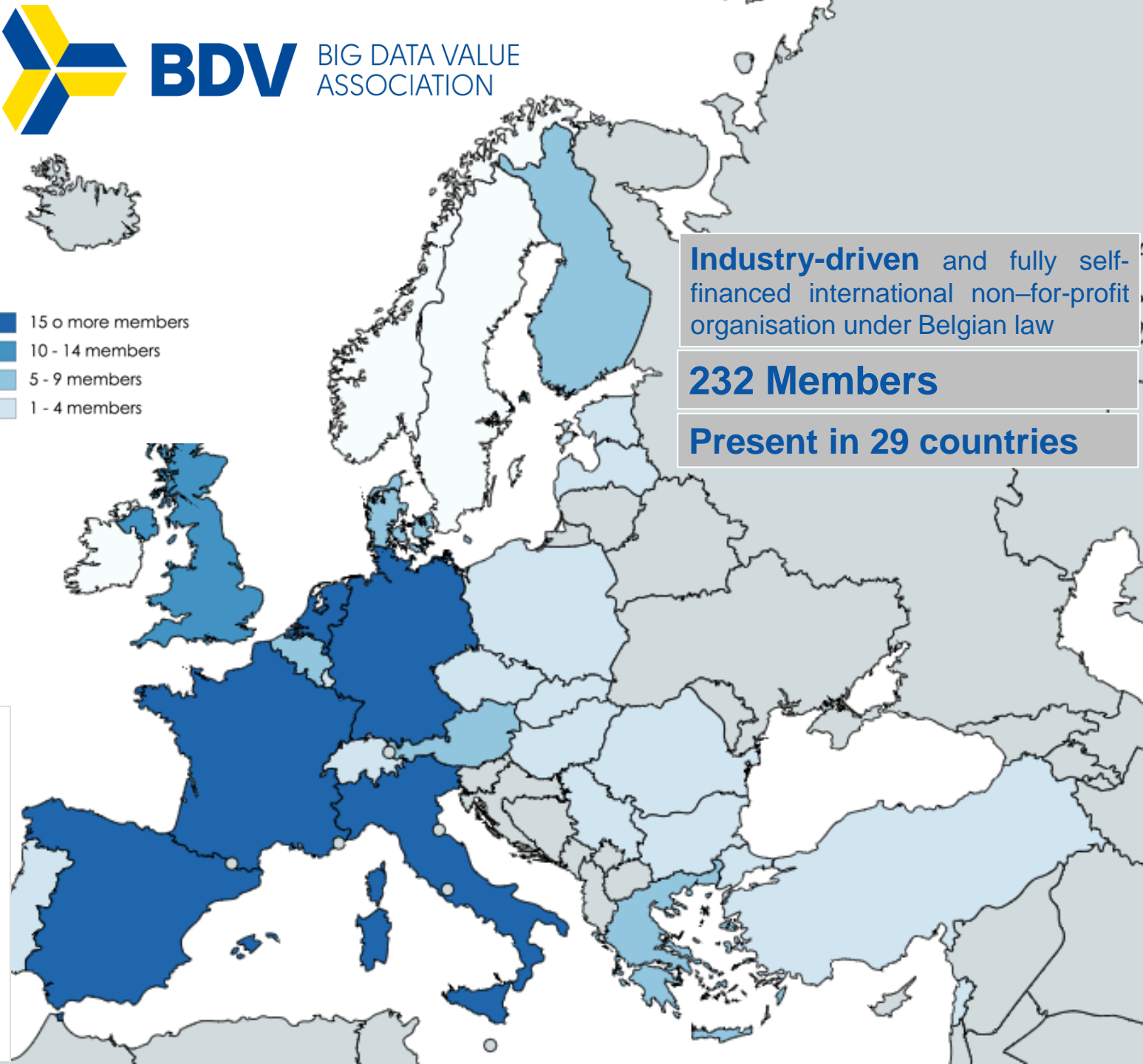


■ 15 or more members
■ 10 - 14 members
■ 5 - 9 members
■ 1 - 4 members

Industry-driven and fully self-financed international non-for-profit organisation under Belgian law

232 Members

Present in 29 countries







ASSOCIATE MEMBERS: INDUSTRY

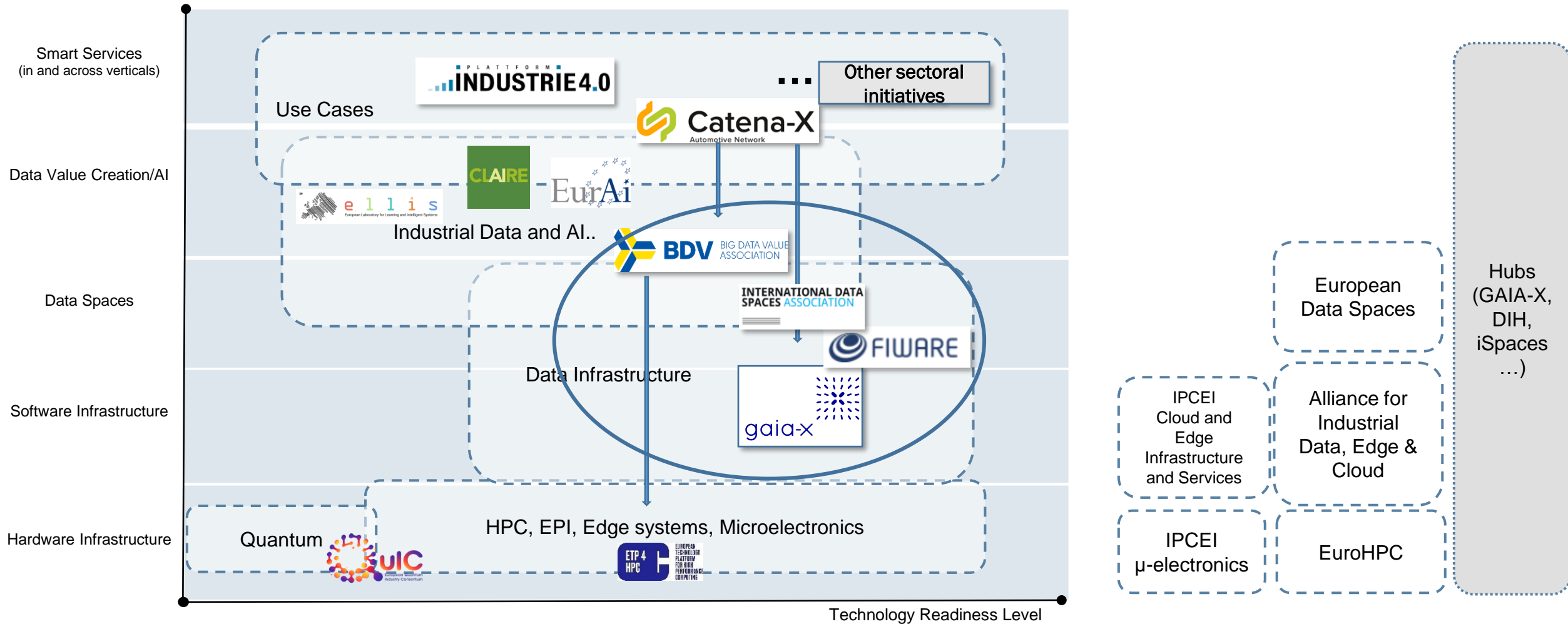


ASSOCIATE MEMBERS: RESEARCH/ACADEMIA/Others



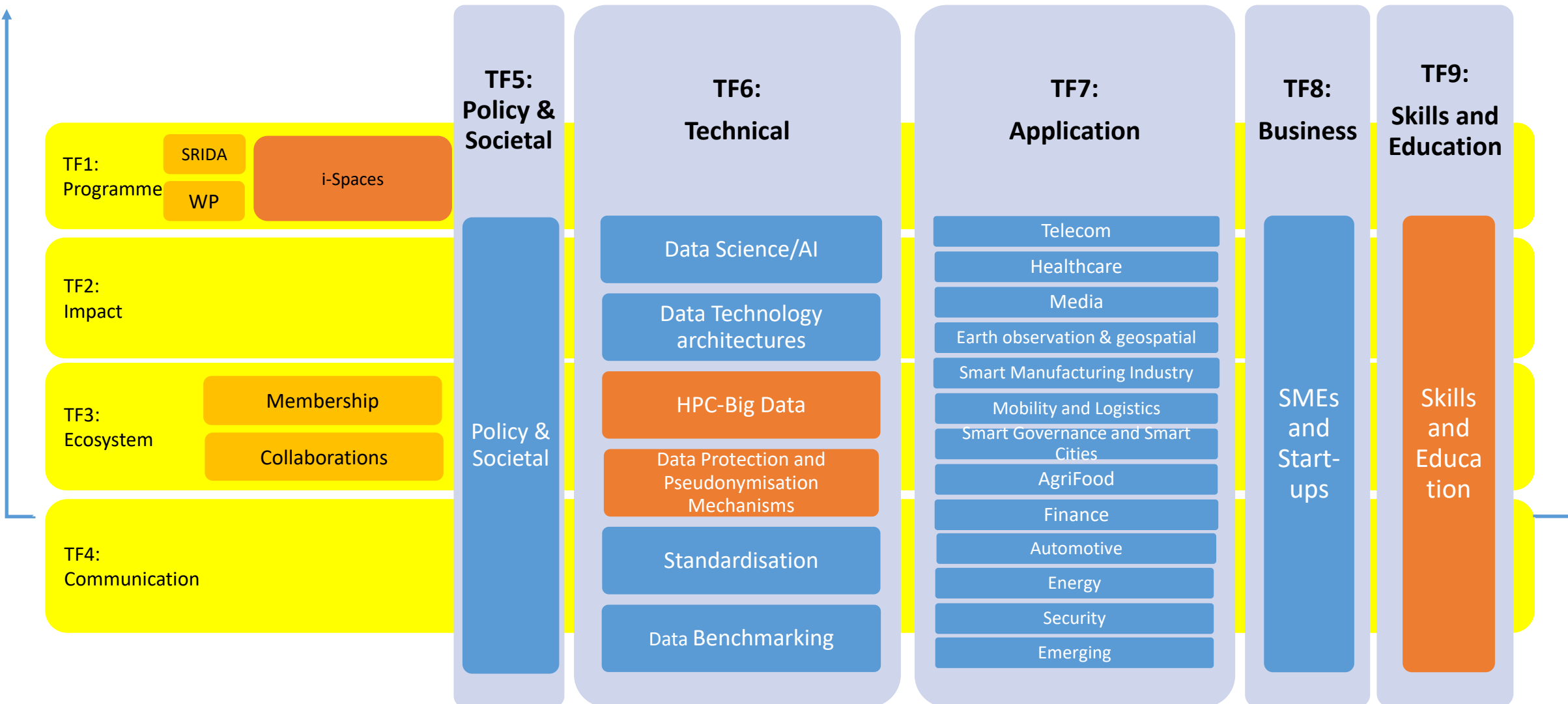
Strategic Digital/Data related initiatives for Europe (showing technology coverage)

Comment: examples



TF11 : Trustworthiness of Industrial AI (emerging)

TF10 : Data Sharing Spaces





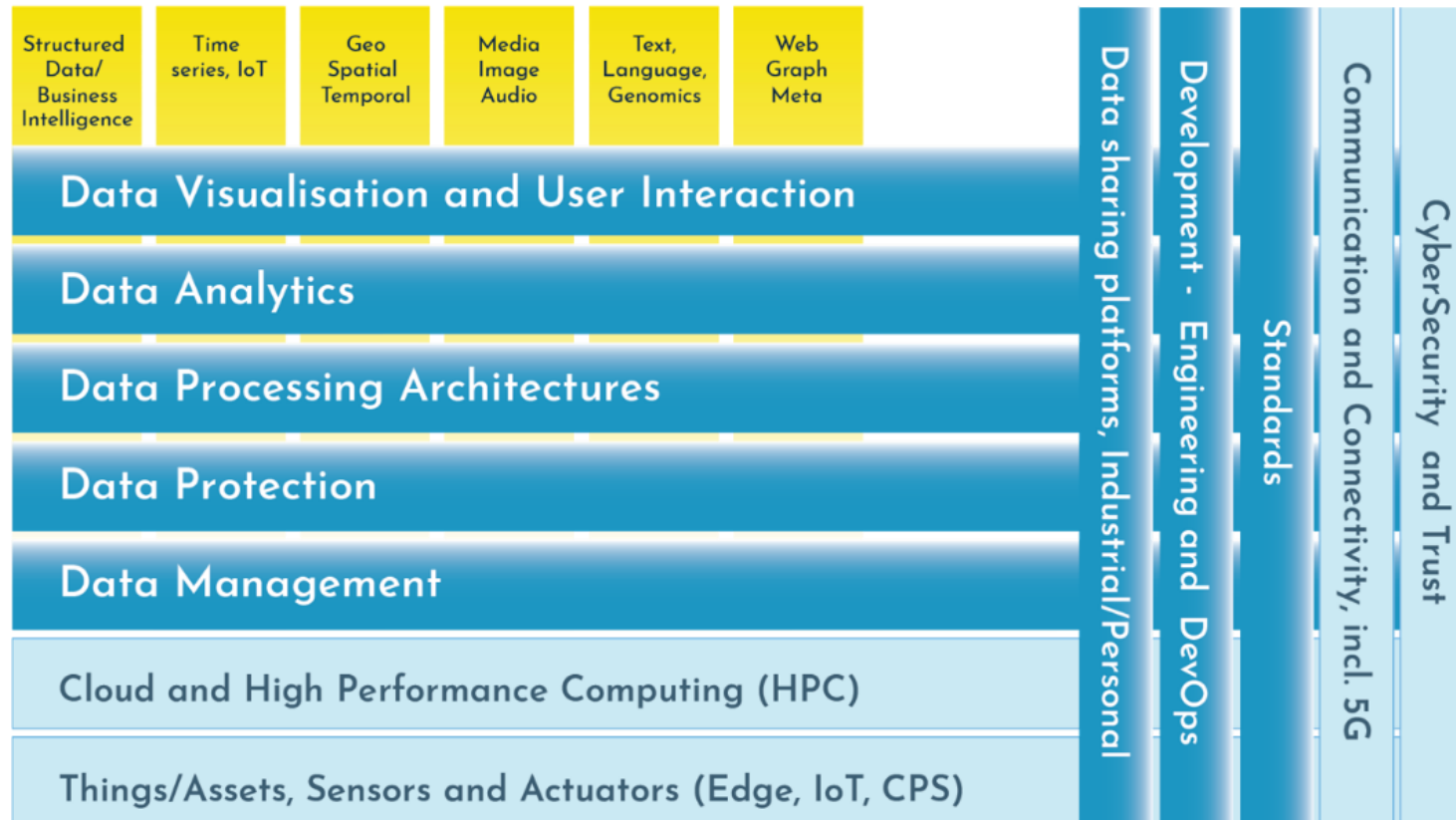
Big Data Value cPPP

430 M€ public investment

2,26 B€ private investment



Over **70 projects** since January 2017 (projects running until 2023)





EUROPEAN FEDERATION OF
DATA DRIVEN INNOVATION
HUBS

BDVA iSpaces



36 hubs
35 regions
21 countries



EuroHPC Joint Undertaking
BDVA is a private member of the EuroHPC JU
(together with ETP4HPC and QuIC)



THE TECHNOLOGY STACKS OF HIGH PERFORMANCE COMPUTING AND BIG DATA COMPUTING:

What they can learn from each other



Data Spaces Business Alliance

Unleashing the Data Economy



DSBA HUBS LANDSCAPE



Gaia-X HUBS

- * National Hubs
 - * Europe
 - * Current Hubs
 - * Hubs in process of joining
- | | |
|----------------|-------------------|
| 01 Austria | 13 Slovenia |
| 02 Belgium | 14 Spain |
| 03 Finland | 15 Sweden |
| 04 France | 16 Czech Republic |
| 05 Germany | 17 Denmark |
| 06 Greece | 18 Estonia |
| 07 Italy | 19 Great Britain |
| 08 Luxembourg | 20 Ireland |
| 09 Netherlands | 21 South Korea |
| 10 Poland | 22 Switzerland |
| 11 Portugal | |
| 12 Slovakia | |

INTERNATIONAL DATA SPACES ASSOCIATION

IDSa HUBS & COMPETENCE CENTRES

- * Regional Hubs
 - * Europe
- | | |
|--|--|
| 01 Big Data for Smart Society (GATE) Sofia, Bulgaria | 07 TNO The Hague, Netherlands |
| 02 Cefriel Milan, Italy | 08 VTT Espoo, Finland |
| 03 CERTH/ITI Thessaloniki, Greece | 09 Tecnalia Bilbao, Spain |
| 04 Czech Technical University in Prague Prague, Czech Republic | 10 University of Patras, LMS Patras, Greece |
| 05 Innovalia Association Bilbao, Spain | 11 L3S Research Center, Leipzig University Hannover, Germany |
| 06 Institut Mines-Télécom Paris, France | 12 Fraunhofer-ISST Dortmund, Germany |



FIWARE iHUBS

- * Regional Hubs
 - * Europe
 - * Global
- | | |
|---|---|
| 01 A. Castro Servicios & Tecnología Montevideo, Uruguay | 09 Faubourg Numérique Saint-Quentin, France |
| 02 Astrid Wolfsburg, Germany | 10 FiiHub Azores DIH Azores, Portugal |
| 03 ATIO Barcelona, Spain | 11 FiiHub Canary Islands Tenerife, Spain |
| 04 Centifo Hub Grasse, France | 12 FIWARE Innova iHub Perugia, Italy |
| 05 Ciudades del Futuro iHub Buenos Aires, Argentina | 13 FIWARE OIL iHub Lund, Sweden |
| 06 Deteccon FIWARE iHub Cologne, Germany | 14 FIWARE Space Bajados, Spain |
| 07 DigiCity Connect Atlanta, USA | 15 FIWARE Zone Sevilla, Spain |
| 08 DIHBAI-TUR Balearic Islands, Spain | 16 Future City iHub Amersfoort, Netherlands |
| | 17 Hellenic FIWARE iHub Athens, Greece |
| | 18 IDEASFORUM Hame, Germany |
| | 19 iHub FIWARE Bridge Tunis, Tunisia |
| | 20 IoT Lab iHub Geneva, Switzerland |
| | 21 LaNIF Mexico City, Mexico |
| | 22 Madeira FiiHub FIWARE iHub Madeira, Portugal |
| | 23 Maroc Numeric Cluster Casablanca, Morocco |
| | 24 MOA GLOBAL Santana de Parnaíba, Brazil |
| | 25 The Texas Project iHub Austin, Texas USA |
| | 26 Uni FIWARE iHub Athens, Greece |



BDVA i-SPACES

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

EUROPE

GLOBAL



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