

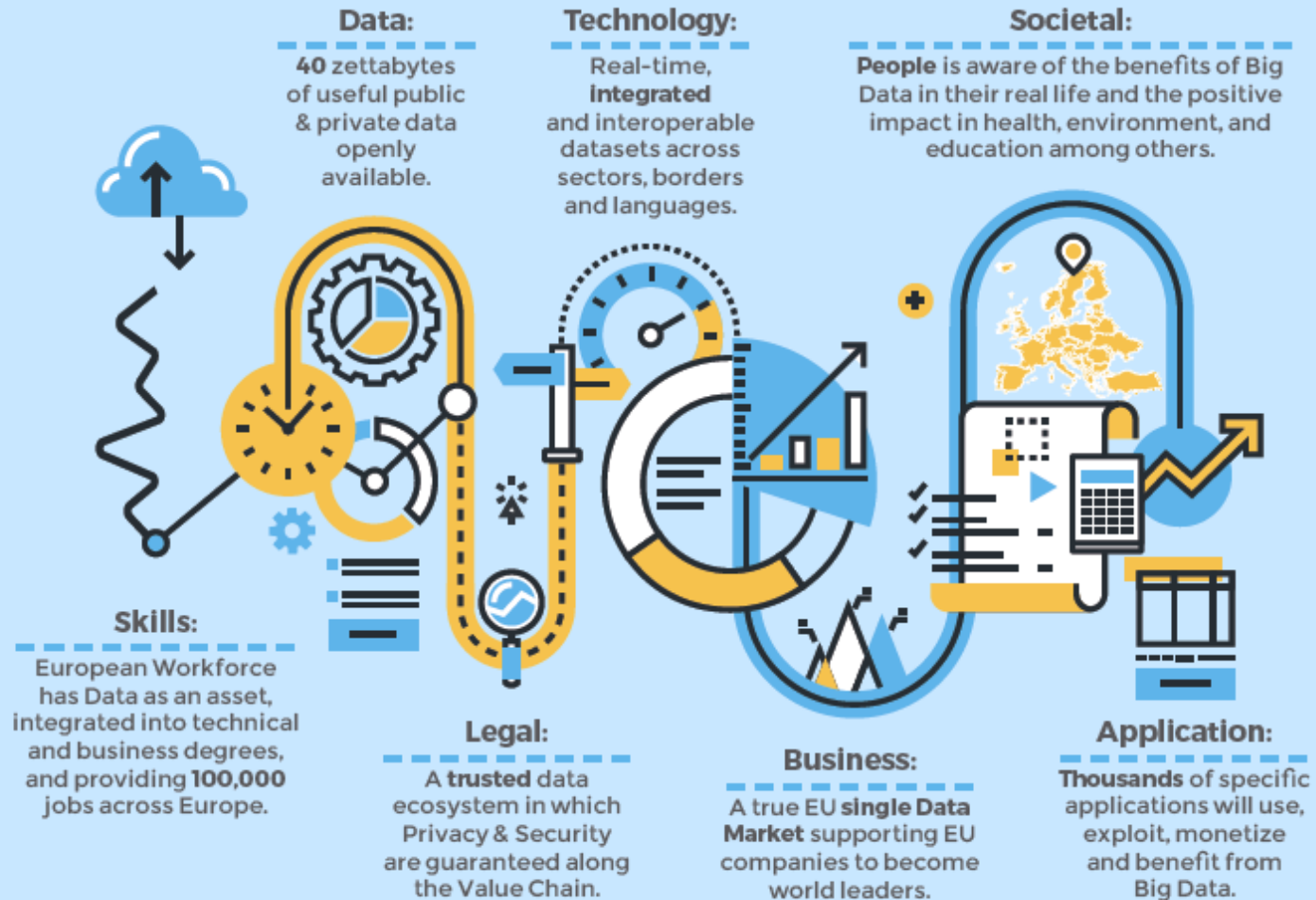
Accelerating data-driven innovation in Europe



BDVA Overview **14 May 2018** **e-IRG Workshop – Sofia (Bulgaria)**

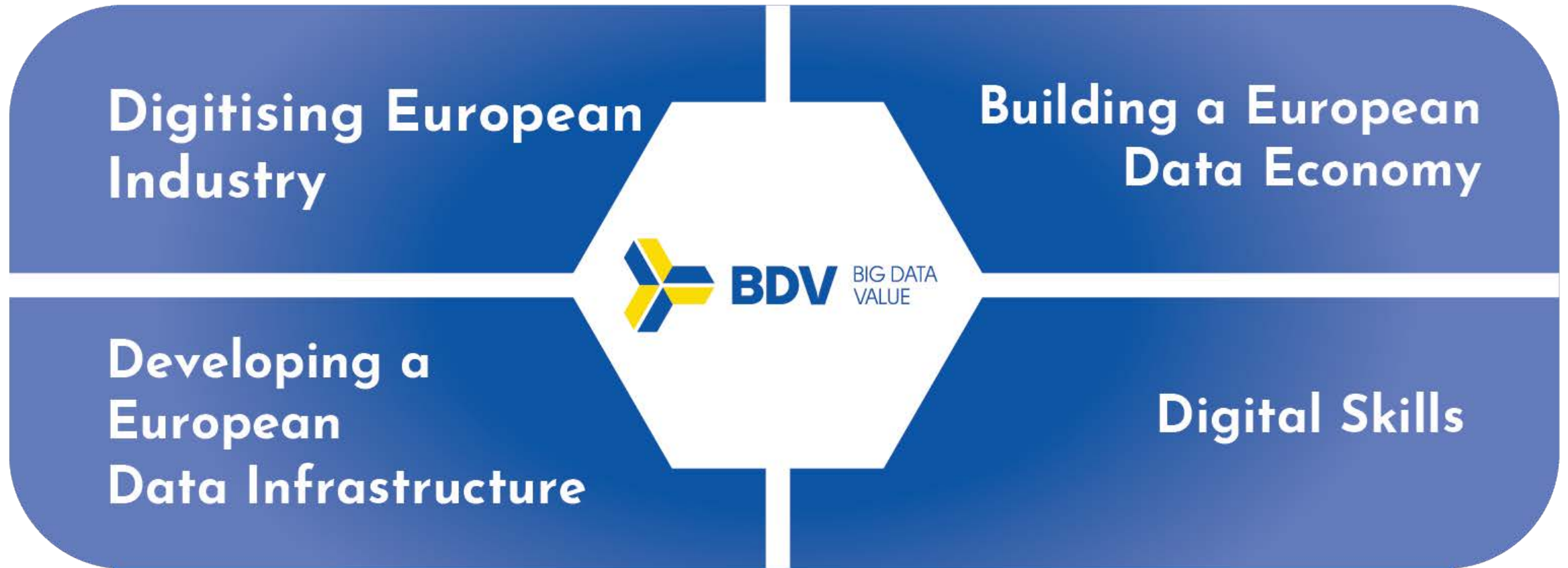
Yannick Legré
on behalf of BDVA Board of Directors

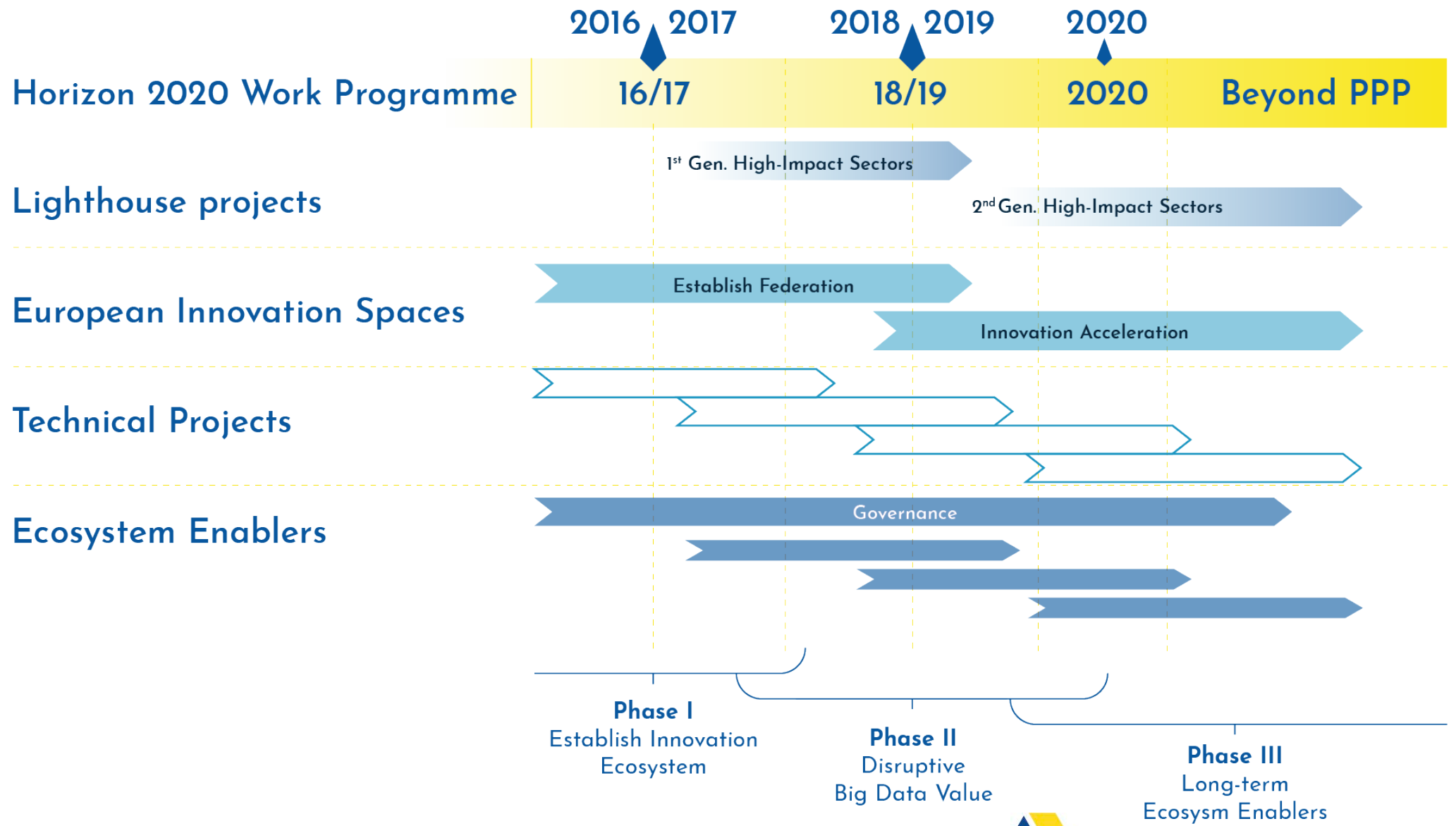
Big Data Value Vision for 2020



[SRIA v4.0 @www.bdva.eu](http://www.bdva.eu)

Contributing to the Digital Single Market Strategy Implementation





BDV PPP Roadmap

The EC and Europe's data industry commit to invest **€2.5 billion** in a PPP that aims to strengthen the data sector in Europe:

€500 million of EC investment over 5 years (2016-2020) H2020

€2 billion from Private partners through sector investments

Develop Ecosystem

Membership development: Quantity, balance, diversity and quality. SME participation: over 30% in the Association.

Collaborations with European and National initiatives, over 25 working groups

4 (+2) major public events / 25 BDVA events

Data Innovation recommendations:

Big Data Value SRIA updates (v4): Multi-annual roadmap

Support to Industry/Industrial sectors, Policy and Research

Big Data Standardisation priorities

Official liaison with ISO IEC JTC1 WG9 Big Data Standards

Collaboration ISO, ITU, W3C, ETSI, ETSI/oneM2M, IEEE, CEN/CENELEC, NSBs

BDVA Reference Model

Private investments and commitments from Industry

280,9MEuro reported in 2015

338,5MEuro reported in 2016

33 projects:

16 started in 2017, 17 new projects starting in 2018

2014

2015

2016

2017

2018

BDV PPP Implementation projects (H2020-ICT-2016-2017): 33 projects

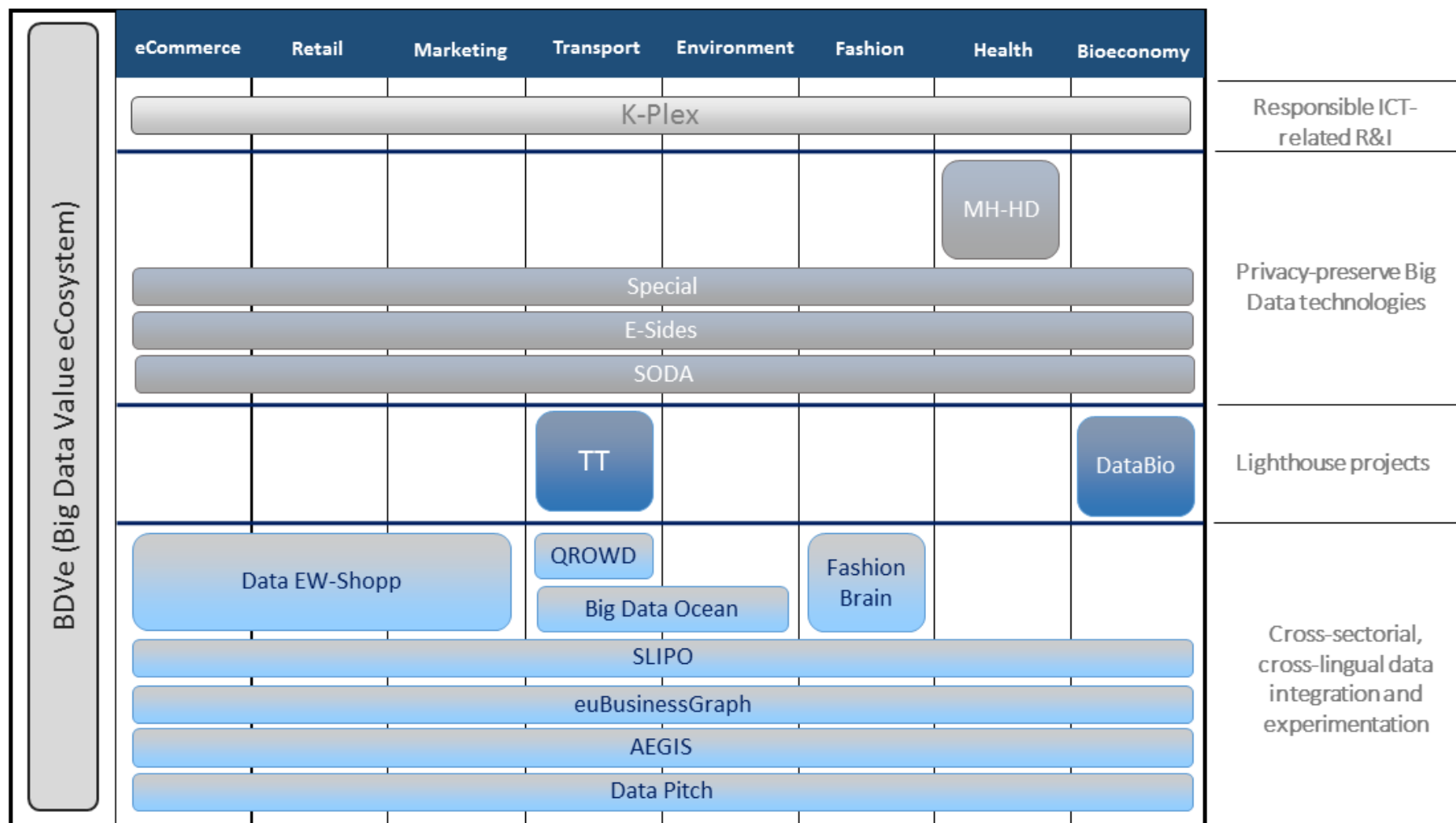
15 data experimentation / data incubators: Cross sectorial, cross-lingual data integration and experimentation

4 Large scale pilots (Light house projects) in 4 major application domains (vertical data platforms):

- Bio Economy
- Transport, mobility and logistics
- Healthcare
- Smart Manufacturing

12 Technical projects covering different **data technical challenges** including **3** focused on **privacy preserving technologies**

2 CSAs (skills, entrepreneurship, privacy, ethical issues, comms, ecosystem, coordination, etc)



BDV PPP projects (H2020-ICT-2016-2017)

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

194 Members

35 Large companies

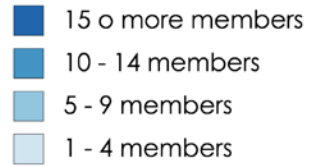
63 SMEs

82 Research institutions

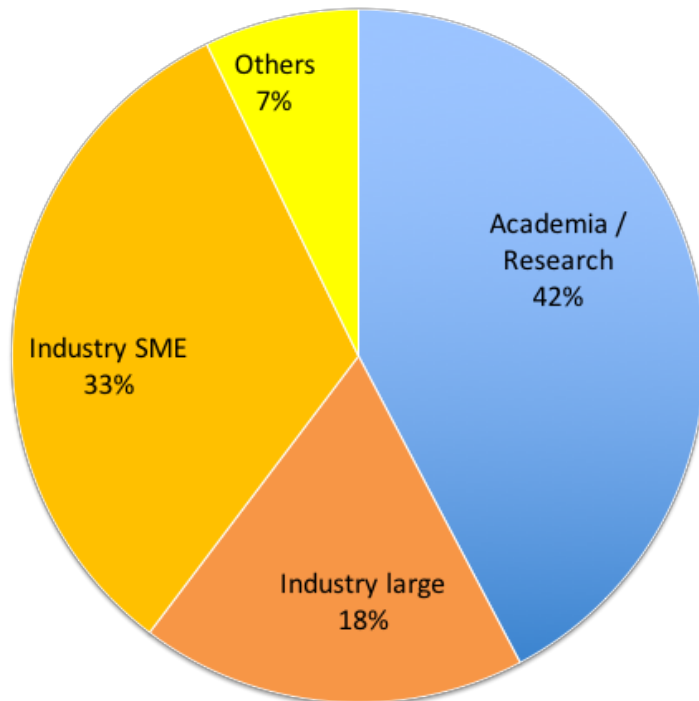
14 Others

Present in 28 countries

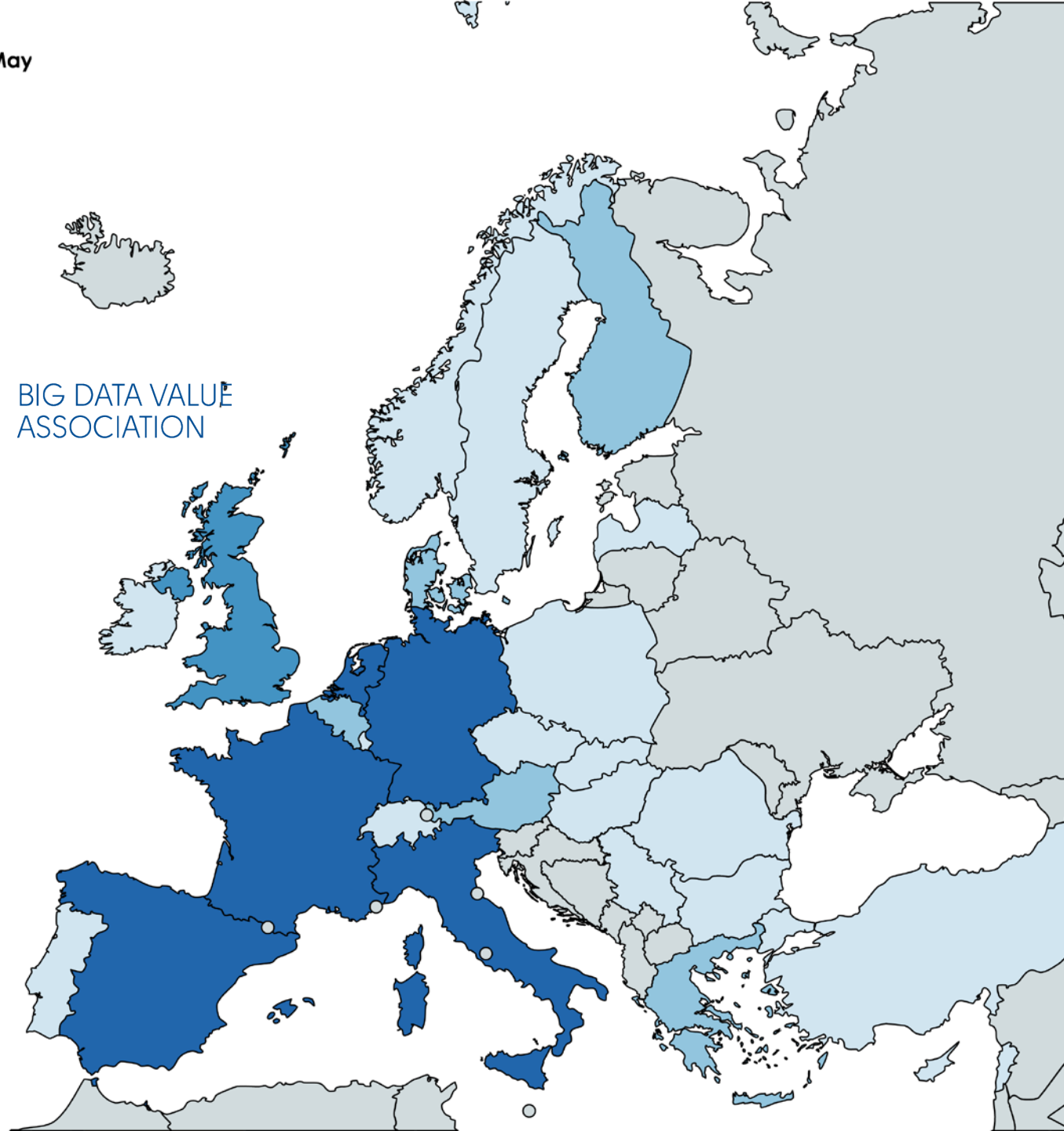
BDVA members per country (May 2017)



BDV BIG DATA VALUE ASSOCIATION



Created with mapchart.net ©



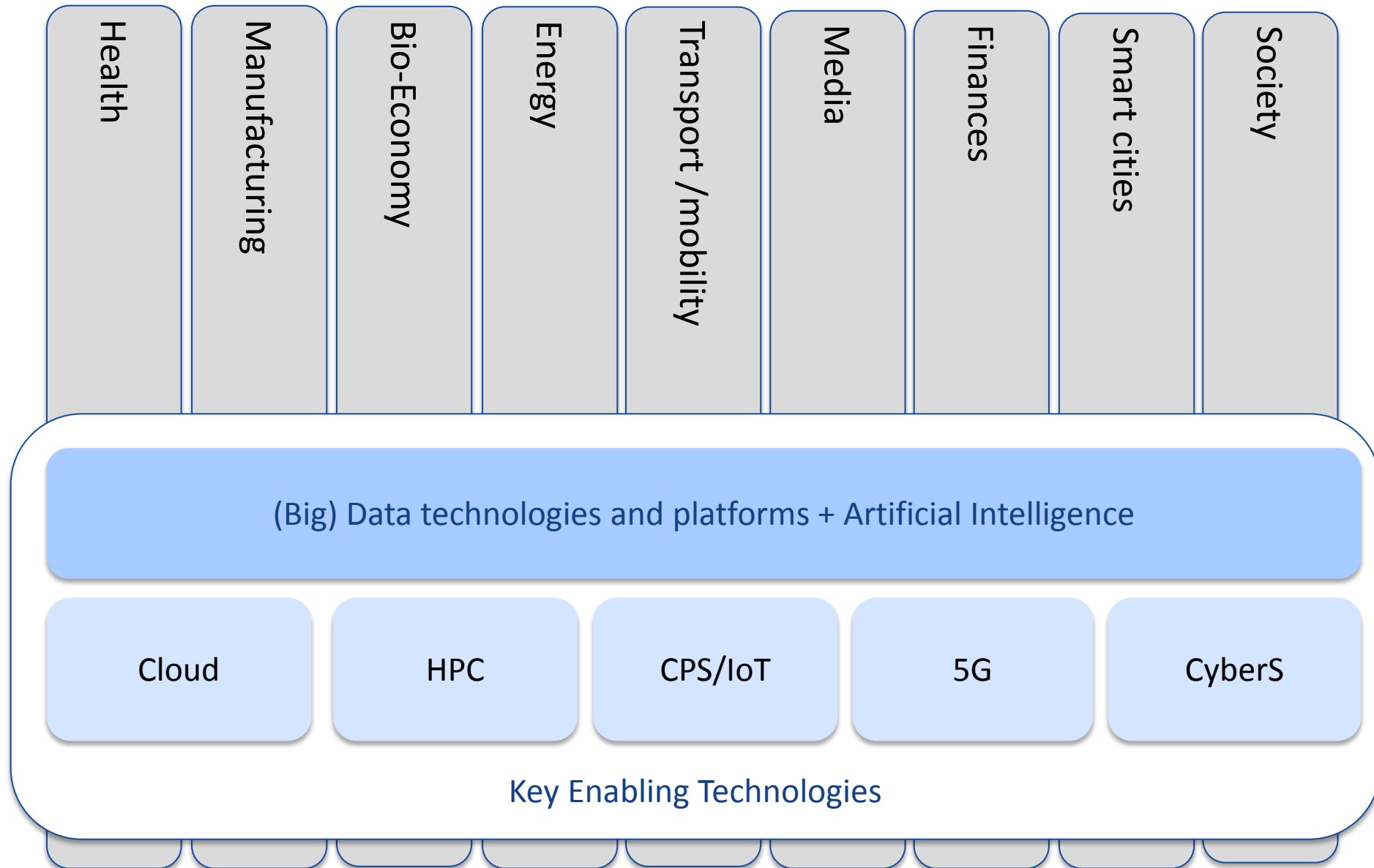




The **mission** of the BDVA is to develop the Innovation Ecosystem that will enable the data-driven digital transformation in Europe delivering maximum economic and societal benefit, and, achieving and sustaining Europe's leadership on Big Data Value creation and Artificial Intelligence.



Key enabling technologies and sectors



Big Data Value ecosystem

BDVA Collaborations

Officially established

Ongoing collaboration (initiated)

Ongoing collaboration with outcomes

Identified collaboration

Society

Market

Regulation/policies

Standards

Research
Innovation

MyData

Platform Industrie 4.0

EC/EU

NSB

ETSI

CEN/CENELEC

ISO

ITU

W3C

IEEE

Platform
Industrie
4.0

National
Initiatives
BIG DATA
VALUE

ETP4HPC

EC SO

AIOTI

Robotics

5G

EIT
Digital

RDA

IIC

IoT
Forum

IDS

Sectorial PPPs: EFFRA

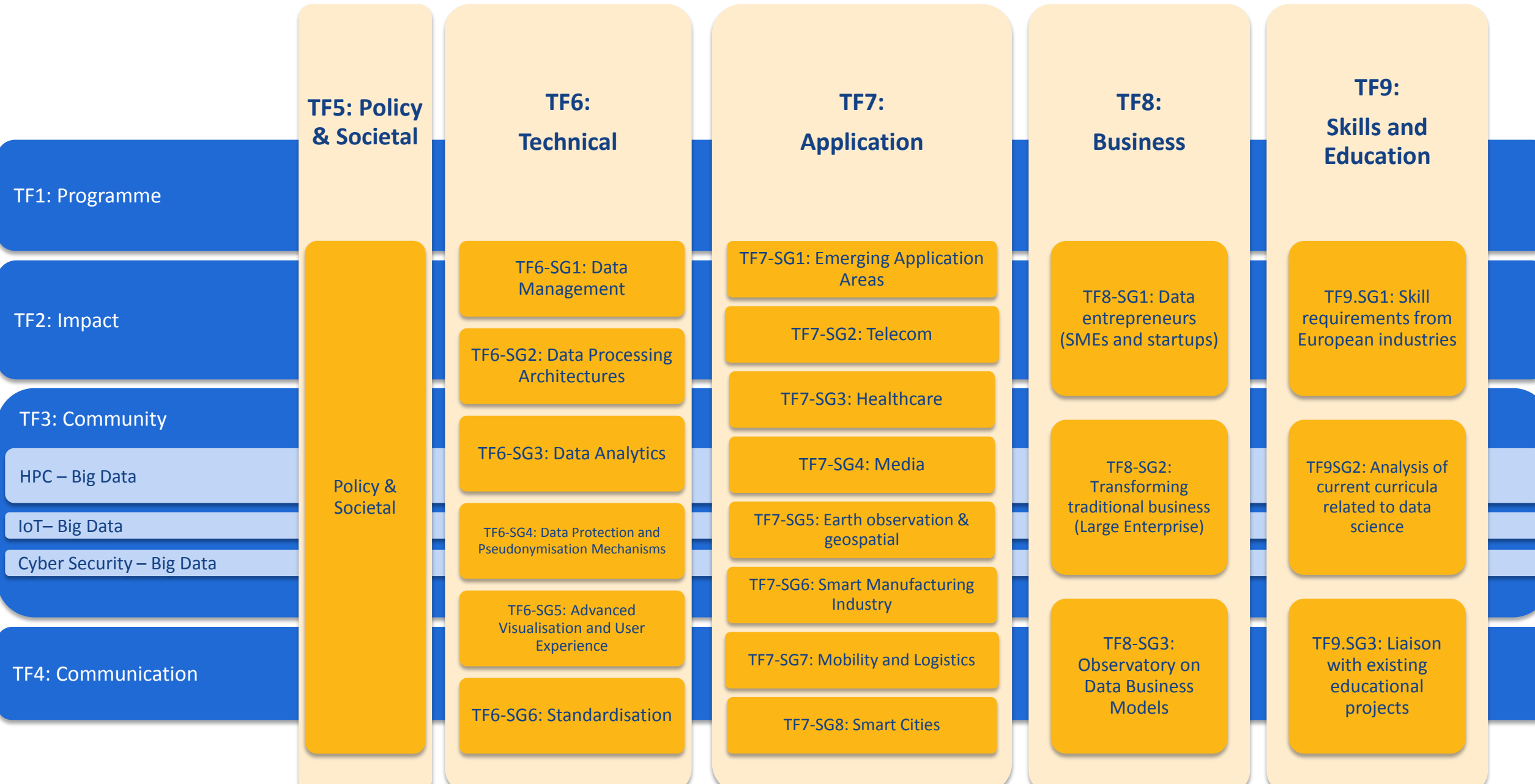
Other Sectorial PPPs (and association)s

National level

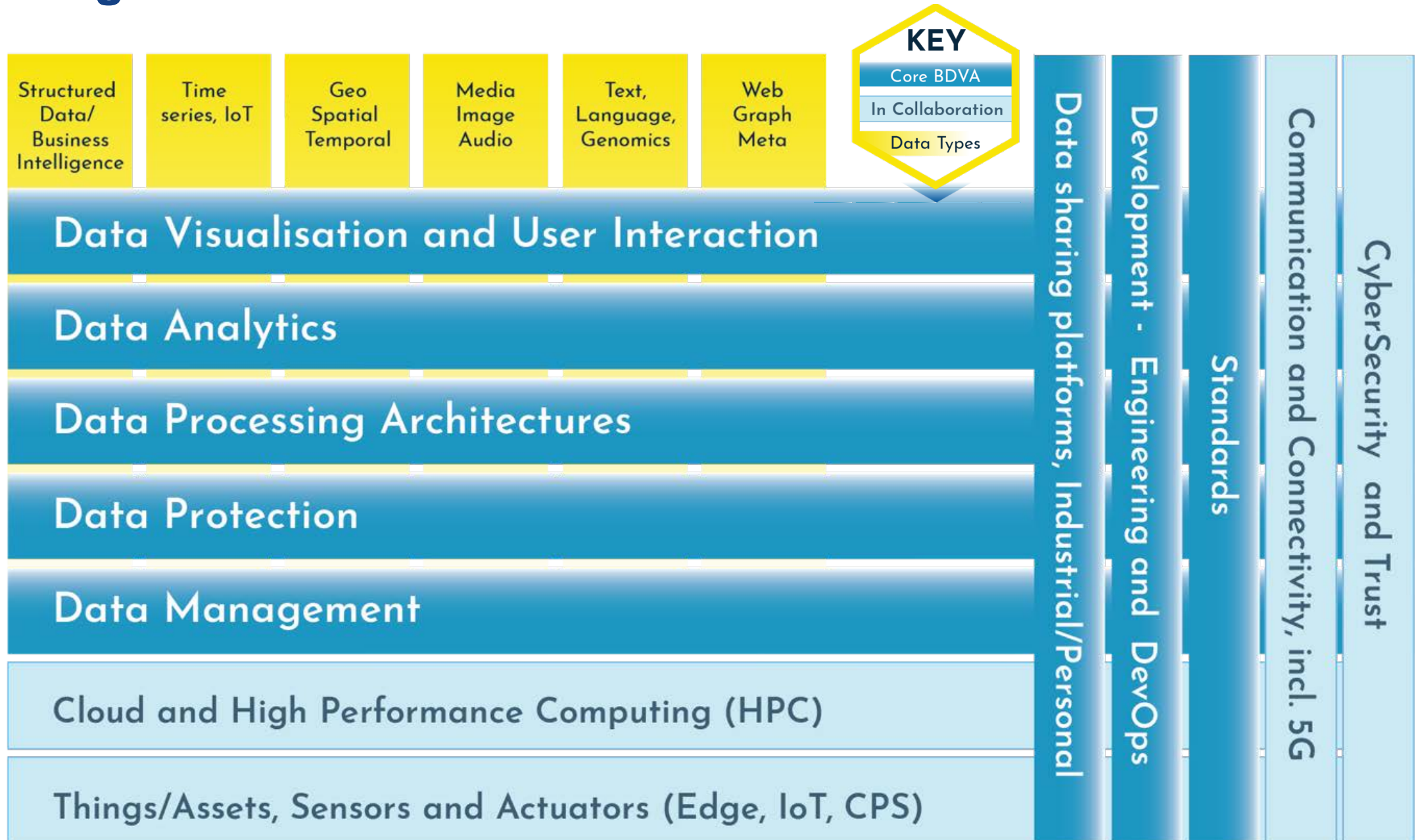
EU level

Worldwide level

BDVA is taking care...of many different aspects of the big data



Big Data Value Reference Model



The need for Partnership (post H2020)

The cPPP provides **a focal point to bring together Industry from across Europe** to tackle a common challenge in a systematic and structured programme of R&D&I. It supports the open innovation data ecosystem with **Large Industry working together with SMEs and Research institutions** in a critical mix needed to deliver impacts.

For next Framework programme BDVA believes that the impact of the cPPP approach can be further strengthened with the following refinements:

- **Stronger involvement of Member States** (and regions) would help to develop synergies between European and Member States activities on Big Data. A close alignment of National and European roadmaps and activities can support a systematic approach to the implementation of a European Strategic Research and Innovation Agenda on Data Value. (e.g i-Spaces as shown in current status)
- **Stronger collaboration is needed between the private side and the EC to maximise success:** mechanism to coordinate Big Data horizontal activities with other sectorial activities where calls are designed to avoid duplication of work, create broader impacts, and drive synergies.

Future Challenges of the European Data Economy and Society

- **Secure (industrial) prosperity of Europe** in the context of the global data-driven economy
- **Industrial leadership in Big Data and AI platforms and technologies** (develop, operate, promote its own Data / AI platforms)
- Secure autonomy in Big Data and AI technology
- Interoperable Data ecosystems (open, private, research, personal, ...)

Next Generation Data and AI Platforms

- **Trusted co-evolution between humans and AI-based** systems
- Legal issues with data decisions
- **Trust in algorithms and data**

Trust in Data-Driven Critical Decision Making

- **Scalable value chains** involving key enabling technologies
- **Extracting value** from the fusion of technologies

Extract Value from Next Generation Digital Infrastructure
(5G, HPC, Cloud, IoT, BD, AI,..)

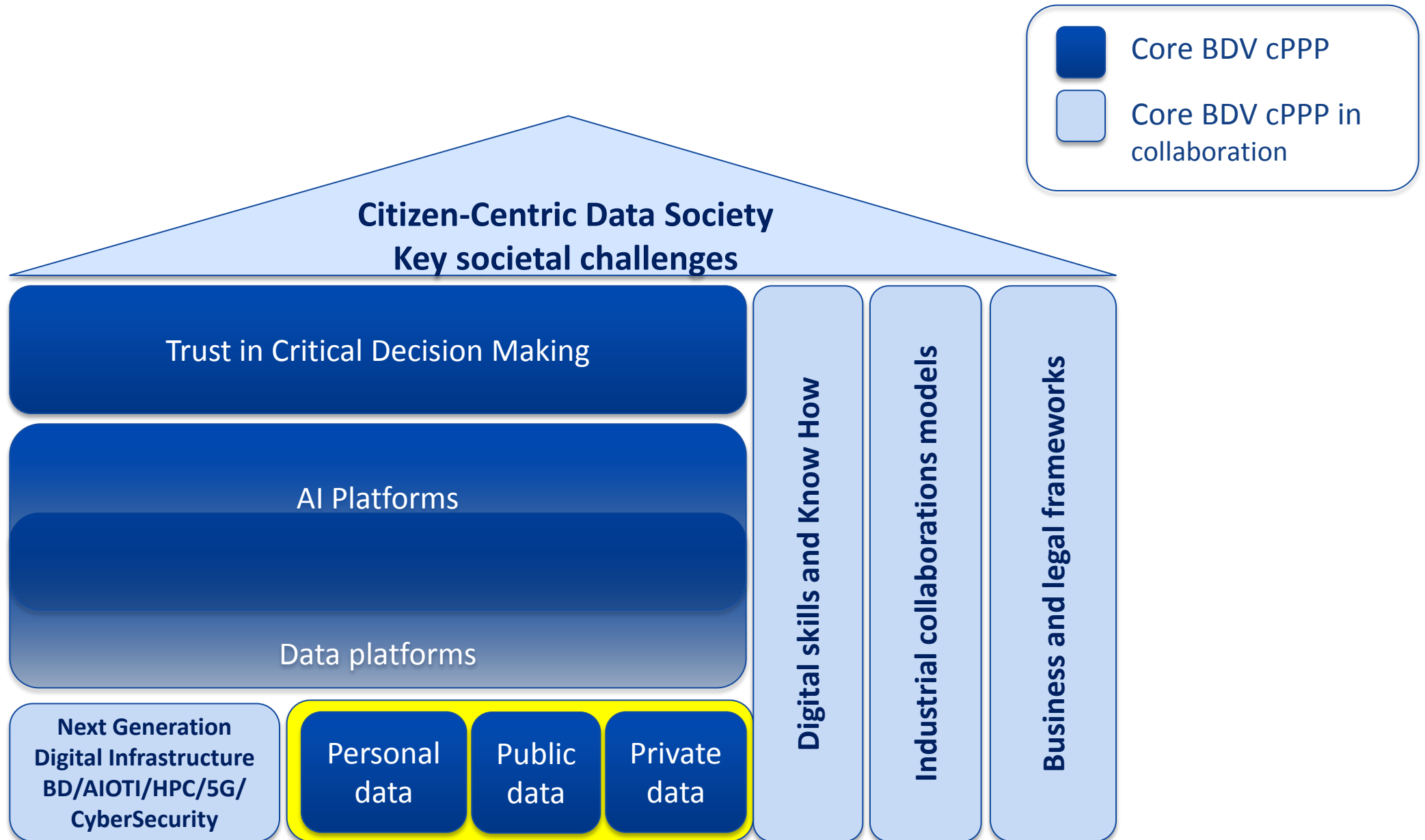
- **New data-driven business models** across value chains
- Lack of **data interoperability**. Data sharing and exchange
- Data-driven **industrial cooperation** across value chains

Scaling Industrial Cooperation Models in the Data Economy

- **Specialisation** required (sophistication of the leading-edge tools and algorithms)
- **Data will become a significant part of most jobs** (Managers, workers and decision makers)
- **Retaining talent**: driving new forms of academic and industrial research and educational partnerships

Digital/Data Skills and Know-how

BDVA positioning towards FP9: Main pillars



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EUROPEAN

**BIG DATA
VALUE** FORUM

SAVE THE DATE
2018 NOV 12-14
VIENNA, AUSTRIA
STAY TUNED!

Further Information:

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@BDVA_PPP #Bigdatavalue #Bigdata