

BDV PPP & BDVA



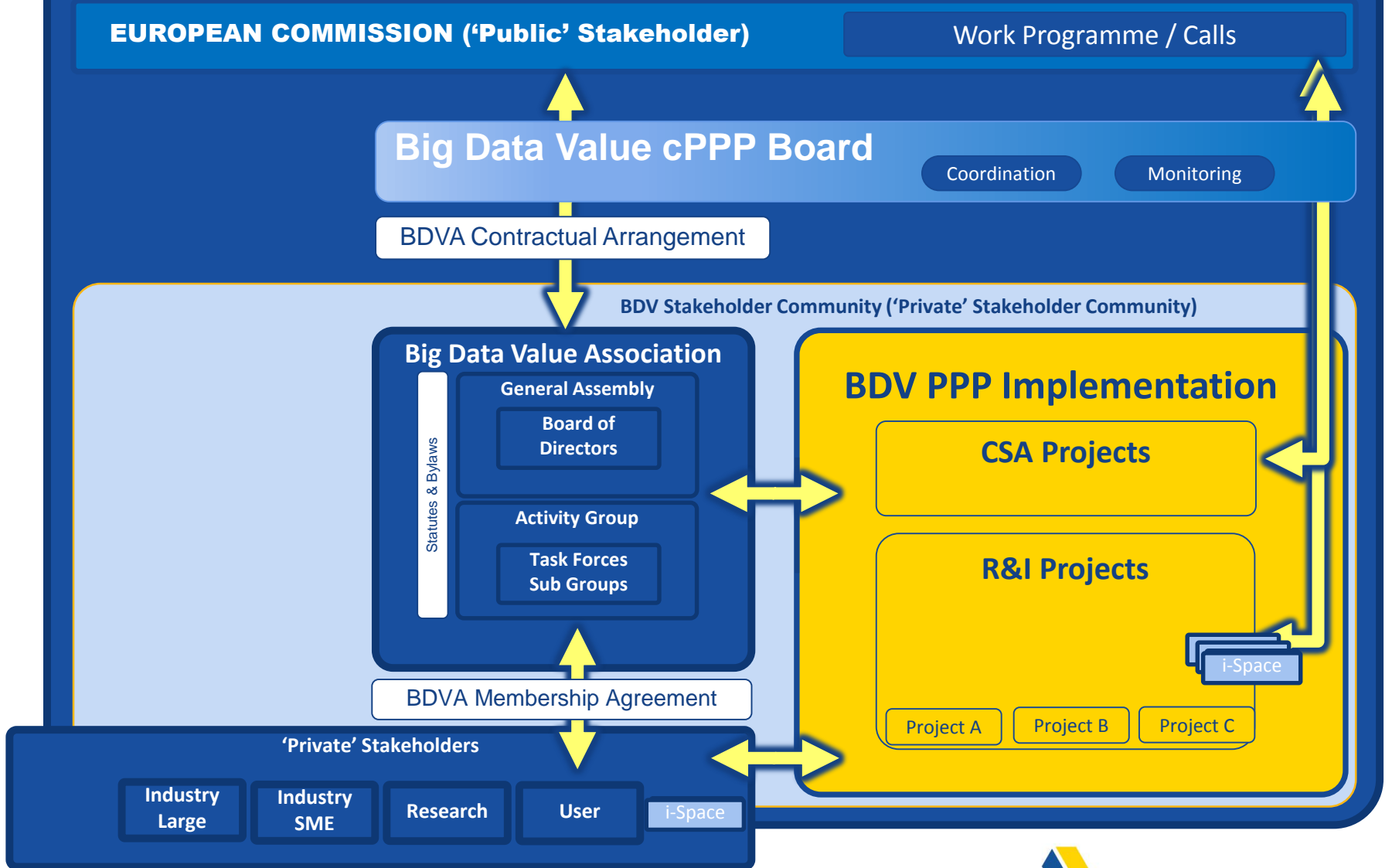
BDV BIG DATA
VALUE

Big Data Value Association

@BDVA_PPP

#BDVASummit

Big Data Value Public – Private – Partnership (BDV cPPP)



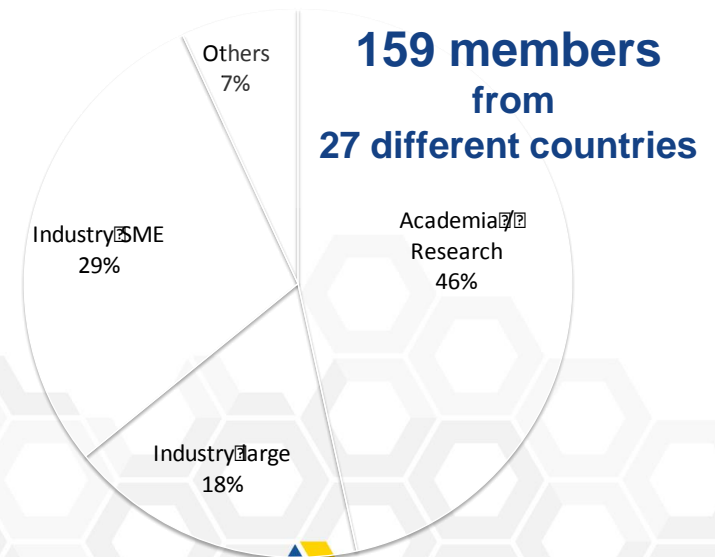
Big Data Value Association

- The Big Data Value Association (BDVA) is the **private counterpart** to the EU Commission to implement the BDV PPP programme.
- BDVA is an **international non-profit association** under Belgium law and it is **open to new members** to further enrich the data value ecosystem and play an active role. These include Data Users, Data Providers, Data Technology Providers and Researchers.
- **Industry-driven**

Goals

Boost European BIG DATA research, development and innovation by:

- strengthening competitiveness and ensuring industrial leadership
- promoting the widest and best uptake of BIG DATA technologies and services
- establishing the excellence of the science base in the field of BIG DATA



BDVA SRIA

Strategic Research and Innovation Agenda

What is SRIA?

- The Strategic Research and Innovation Agenda (SRIA) defines the **overall goals**, main **technical and non-technical priorities**, and a **research and innovation roadmap** for the European contractual Public Private Partnership (cPPP) on Big Data Value.
- The SRIA explains the strategic importance of Big Data, describes the **Data Value Chain and the central role of Ecosystems**, details a vision for Big Data Value in Europe in 2020, analyses the associated strengths, weaknesses, opportunities and threats, and sets out the objectives and goals to be accomplished by the cPPP within the European research and innovation landscape of Horizon 2020 and at national and regional levels

Latest Version

- Big Data Value Strategic Research and Innovation Agenda (BDV SRIA) version 2.0 was published by BDVA in January 2016 (resulting from several iterations and consulting processes)



Big Data PPP strategy does not aim to the development of a platform as such but **the development of an interoperable data-driven ecosystems as a source for new businesses and innovations using Big Data.** To achieve the BDV SRIA has defined four implementation mechanisms.

I-Spaces are cross-organisation cross-sector interdisciplinary Innovation Spaces to anchor targeted research and innovation projects. They offer secure accelerator-style environments for experiments for private data and open data, bringing technology and application development together. I-Spaces will act as incubators for new businesses and the development of skills, competence and best practices.

Lighthouse projects are large-scale data-driven innovation and demonstration projects that will create superior visibility, awareness and impact.

Technical priorities: These will take up specific Big Data issues addressing targeted aspects of the technical priorities

Cooperation & coordination projects: These projects will foster international cooperation for efficient information exchange and coordination of activities

R&I Projects

Large Targeted research and innovation projects, delivering foundational Big Data technology

Innovation Spaces

Hubs for bringing data, technology and application developments together; catering for development of skills, competence, and best practices.

Lighthouse Projects

Large scale demonstrations focusing on certain sectors and domains

Data Management

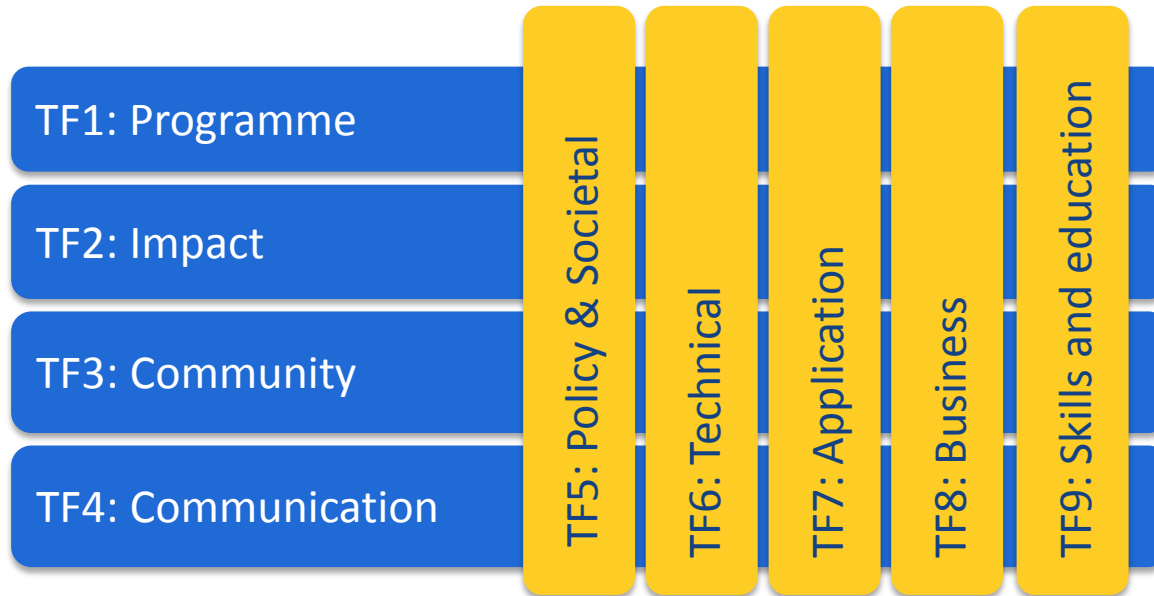
Data Processing Architectures

Deep Analytics

Data Protection

Advanced Visualization

BDVA operational structure: Task Forces and Subgroups



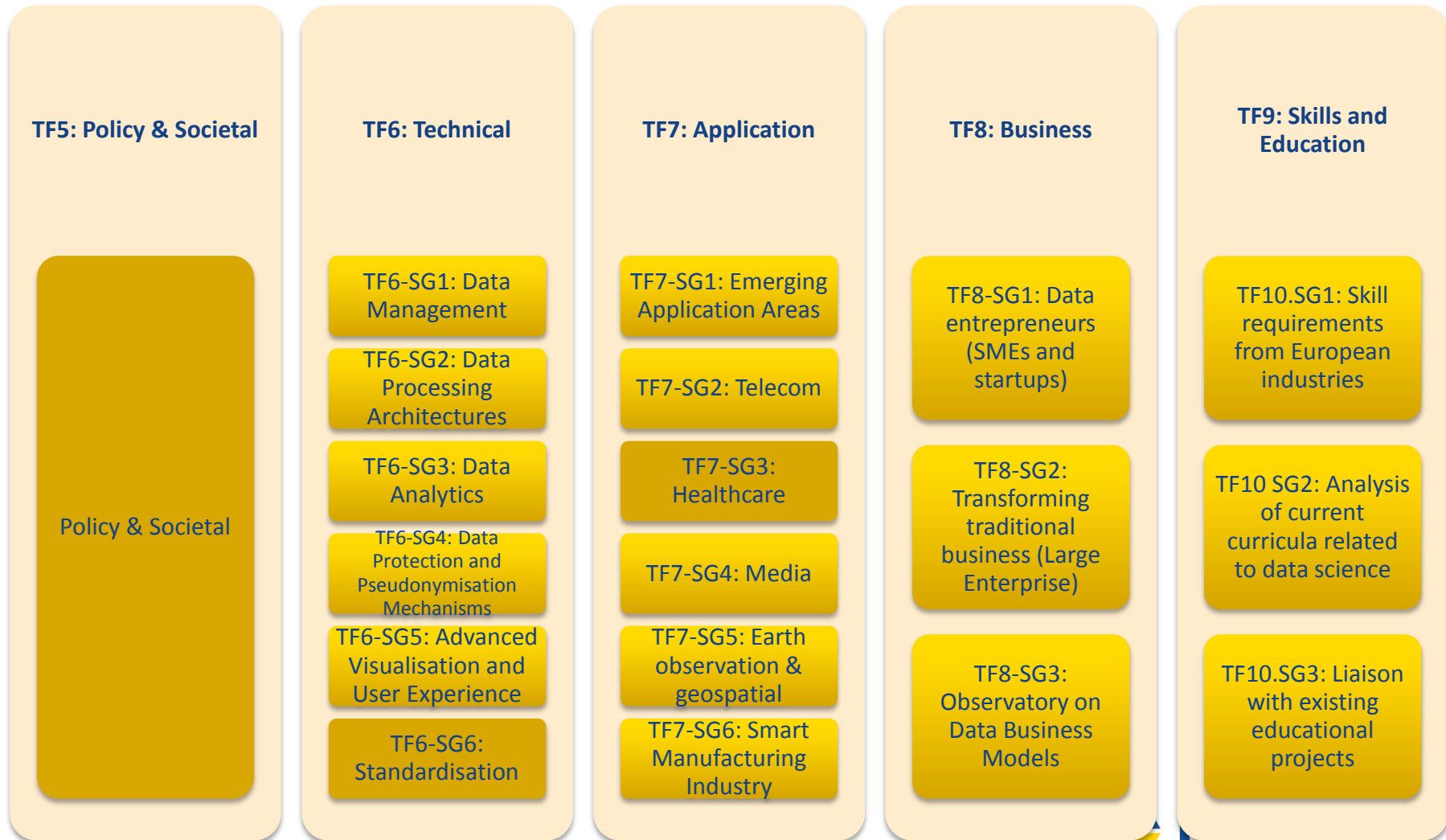
Big Data Value Multiple Dimensions of Big Data



Big Data Value requires new **Business Models**, vibrant **Eco Systems** with strong European players along the entire **Value Chain**









BDVA Task forces and Subgroups



Big Data PPP in WP2016-17 (April 2017)

- › ICT14 – 2016-17: Big Data PPP: cross-sectorial and cross-lingual data integration and experimentation (IA; 27 Meur)
- › ICT15 – 2016-17: Big Data PPP: Large Scale Pilot projects in sectors best benefitting from data-driven innovation (IA; 25 Meur)
 - › 2 additional projects expected
- › ICT16 – 2017: Big data PPP: research addressing main technology challenges of the data economy (RIA; 33 Meur)
 - › Actions between 2-5 Meuro
- › ICT17 – 2016-17: Big data PPP: Support, industrial skills, benchmarking and evaluation (RIA, 2 Meur)
 - › For b (benchmarking)
- › + *Inducement price: big data technologies (Other Actions: 7) – Budget 2Meuro*

Check background notes!

-  [H2020-ICT-2016-2017 Topics 14-15-16-17 WP Presentation \(819 KB\)](#)
-  [RECORDING OF THE SESSION](#)
-  [Technical Background Notes: Topic H2020-ICT-14-2016-2017: Big data PPP \(416 KB\)](#)
-  [Technical Background Notes: Topic H2020-ICT-15-2016-2017: Big data PPP \(320 KB\)](#)
-  [Technical Background Notes: Topic H2020-ICT-16-2017: Big data PPP \(109 KB\)](#)
-  [Technical Background Notes: Topic H2020-ICT-17-2016-2017: Big data PPP \(333 KB\)](#)



ICT 14 (aka Innovation Spaces) - IA

To foster the exchange, linking and reuse of data assets.
To integrate data assets from multiple sectors across languages and formats in a safe environment for experimentations of innovative services and product ideas.

a) Innovation Actions addressing cross domain data integration challenges of EU industries arranged along data value chains. Wide range of technical issue to be tackled (i.e. data models, entity identifiers, standards, multi-lingual support, brokerage schemes, data quality, privacy, etc...)



ICT 14 a) - Impact

Expected Impact: a. Data integration activities

- Data integration activities will simplify data analytics carried out over datasets independently produced by different companies and shorten time to market for new products and services;
- Substantial increase in the number and size of data sets processed and integrated by the data integration activities;
- Substantial increase in the number of competitive services provided for integrating data across sectors;
- Increase in revenue by 20% (by 2020) generated by European data companies through selling integrated data and data integration services offered.



ICT 14 (continued)

b) Data experimentation incubators addressing big data industrial challenges in a cross-sectorial, cross-lingual and/or cross-border set-up.

Experimenters: SMEs and start-ups. At least 50% of experiments to be defined by data providers.

The incubator will offer access to cross-sectorial, cross language data pools, computing infrastructure and open software tools in addition to an organizational, legal, IPR support environment.

Cascading Grants scheme to be implemented.



ICT 14 b) - Impact

b. Data experimentation incubators

At least 100 SMEs and web entrepreneurs, including start-ups, participate in data experimentation incubators;

30% annual increase in the number of Big Data Value use cases supported by the data experimentation incubators;

Substantial increase in the total amount of data made available in the data experimentation incubators including closed data;

Emergence of innovative incubator concepts and business models that allow the incubator to continue operations past the end of the funded duration.



ICT 15 (aka Lighthouse Projects) - IA

Large Scale Pilot Actions in data intensive sectors involving key European industrial actors.

Their objective is to demonstrate how industrial sectors will be transformed by putting big data technologies at their core.

The Large Scale Pilot actions are meant to serve as best practice examples to be transferred to other sectors.



ICT 15 (continued)

Possible industrial sectors for Large Scale Pilot actions include (but are not limited to) health, energy, environment, earth observation, geospatial, transport, manufacturing, finance and media.

Large Scale Pilot actions are expected to exhibit substantial visibility, mobilisation, and commercial and technological impact. Proposals must demonstrate that they have access to appropriately large, complex and realistic data sets.



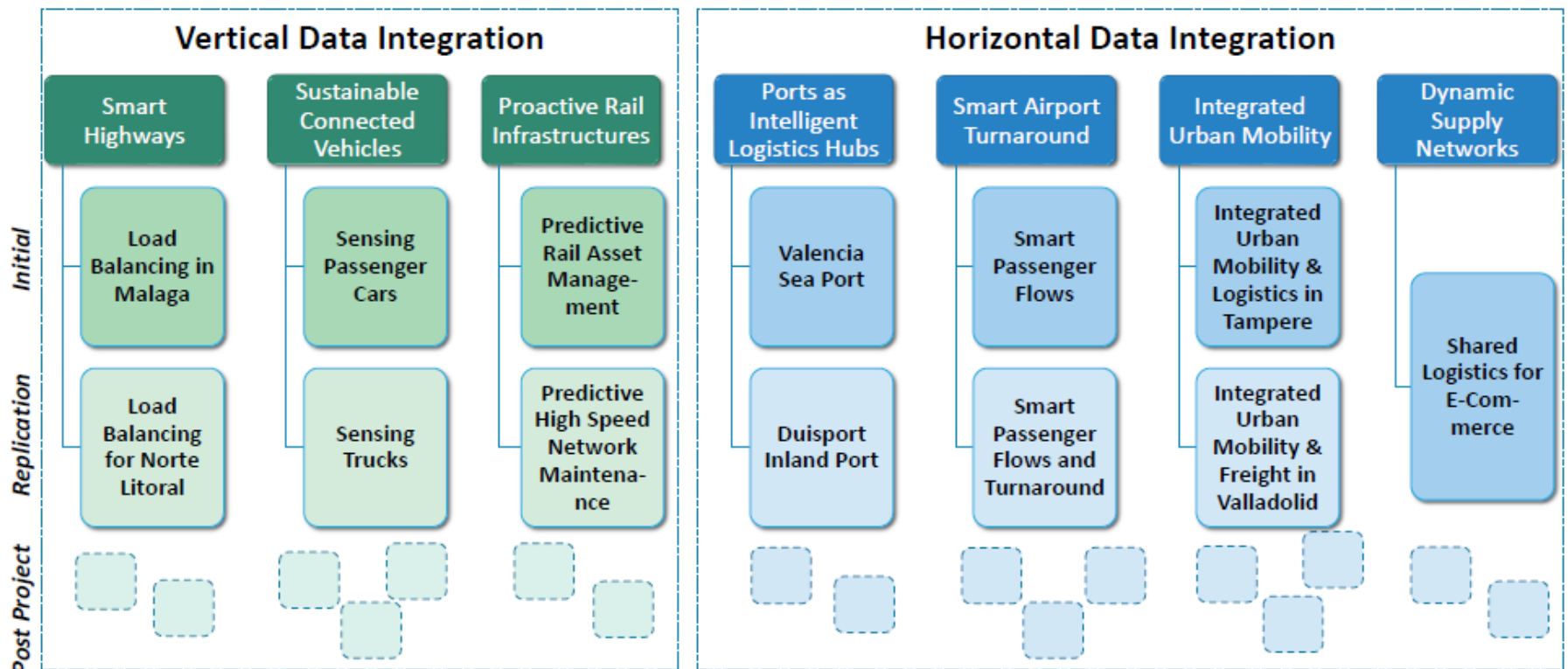
ICT 15 - Impact

- Demonstrated increase of productivity in main target sector of the Large Scale Pilot Action by at least 20%;
- Increase of market share of Big Data technology providers of at least 25% if implemented commercially within the main target sector of the Large Scale Pilot Action;
- Doubling the use of Big Data technology in the main target sector of the Large Scale Pilot Action;
- Leveraging additional target sector investments, equal to at least the EC investment;
- At least 100 organizations participating actively in Big Data demonstrations (not necessarily as partners of the projects).

Transforming Transport

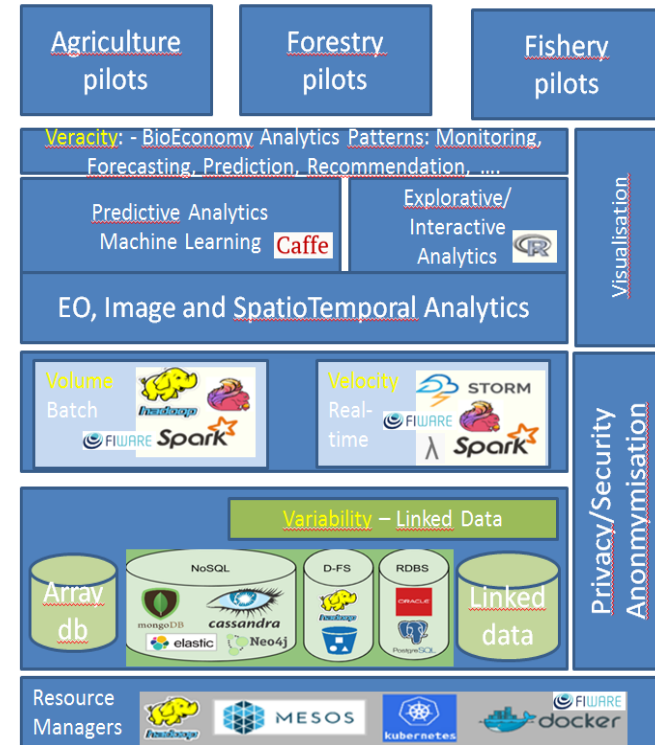
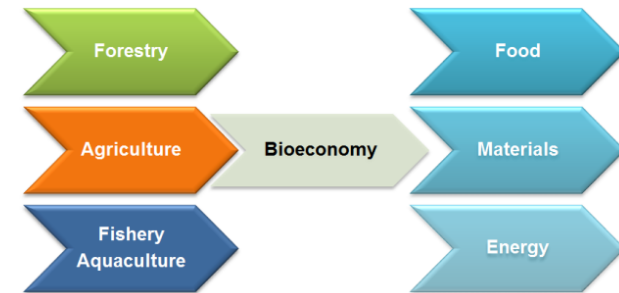
Big Data Value in Mobility and Logistics

PILOTS



Data-Driven Bioeconomy EU Lighthouse (DataBio)

- Duration 2016 -2019, Volume 16,2 M€, 48 partners
- BDVA members: Intrasoft (coord.) + 9 members
- The production of best possible raw materials from **agriculture, forestry and fishery** for the bioeconomy industry to produce food, energy and biomaterials with responsibility and sustainability
- Farm machines, fishing vessels and forestry machinery collect large quantities data as well as remote and local sensors and imagery.
 - data about soil content, marine environment, weeds and pests, sunlight and shade.
- These data help farmers, foresters and fishers to adjust their activities.
- *DataBio project shows the benefits of Big Data technologies in the raw material production for the bioeconomy industry*



BDVe (Big Data Value ecosystem). Areas of work



IMPACT

Framing conditions for data economy

Big Data landscape and identification of business opportunities

Innovation Booster (PP, business acceleration...)

Industrial Impact & investment



ECOSYSTEM

Usage communities

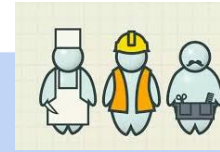
SMEs and startups

National, regional and local dimension

Relevant EU initiatives

Collaborative platform

Governance of PPP portfolio



SKILLS

Network of Big Data CoE

Big Data Value Education Hub

Certification of curricula and Training Programmes

Data Scientist Mobility Programme



MARKETING

Strategy & Operational marketing plans

Branding and marketing material

Channels in action: Online, Media, Events



MANAGEMENT

Strategic Directions, Admin & Finance, Quality Assessment, Advisory Board

Big Data PPP portfolio

1	BigDataOcean: Exploiting Ocean's of Data for Maritime Applications	http://cordis.europa.eu/project/rcn/205983_en.html
2	SLIPO: Scalable Linking and Integration of Big POI data	http://cordis.europa.eu/project/rcn/206003_en.html
3	Data Pitch: Accelerating data to market	http://cordis.europa.eu/project/rcn/206193_en.html
4	AEGIS: Advanced Big Data Value Chain for Public Safety and Personal Security	http://cordis.europa.eu/project/rcn/206181_en.html
5	euBusinessGraph: Enabling the European Business Graph for Innovative Data Product and Services	http://cordis.europa.eu/project/rcn/206353_en.html
6	QROWD: Because Big Data Integration is Humanly Possible	http://cordis.europa.eu/project/rcn/206181_en.html
7	FashionBrain: Understanding Europe's Fashion Data Universe	http://cordis.europa.eu/project/rcn/206358_en.html
8	EW-Shopp: Supporting Event and Weather-based Data Analytics and Marketing along the Shopper Journey	
9	DataBio: Data-Driven Bioeconomy	
10	TT: Transforming Transport IA	
11	BDVe: Big Data Value ecosystem	http://cordis.europa.eu/project/rcn/206401_en.html
12	SODA: Scalable Oblivious Data Analytics	http://cordis.europa.eu/project/rcn/205932_en.html
13	MH-MD: My Health - My Data	http://cordis.europa.eu/project/rcn/206202_en.html
14	e-Sides: Ethical and Societal Implications of Data Sciences	http://cordis.europa.eu/project/rcn/206175_en.html
15	K-PLEX: Knowledge Complexity	http://cordis.europa.eu/project/rcn/206359_en.html
16	SPECIAL - Scalable Policy-aware linked data arChitecture for prlvacy, trAnsparency and compLIance	http://cordis.europa.eu/project/rcn/206343_en.html

THANK YOU

Further Information:

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