

INDUSTRIAL DATA PLATFORMS FOR THE MANUFACTURING DOMAIN

BDVA WORKSHOP

Paris Versailles, November 23rd 2017

EUROPEAN
**BIG DATA
VALUE** FORUM

2017. NOV 21-23 VERSAILLES

TRUSTED AI IN SMART INDUSTRY



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Davide Dalle Carbonare, Sergio Gusmeroli

Engineering Ingegneria Informatica S.p.A

Agenda (11.00 – 12.30)

- **State of Play: Smart Manufacturing Industry Subgroup and its Position Paper.** Sergio Gusmeroli & Davide Dalle Carbonare (Engineering Ingegneria Informatica S.p.A, Italy)
- **Digitalization needs Interoperability – Interoperability requests standardization. The way to do it.** Thomas Hahn (SIEMENS, Germany)
- **Securing IoT and Big Data. Exploring a huge iceberg by some illustrative projects.** Dr. Aizea Lojo (IK4-Ikerlan, Spain); Dr. Iñaki Garitano (Mondragon Unibertsitatea, Spain)
- **Predictive maintenance for Aerospace Products Manufacturing.** Prof. Ernesto Damiani (CINI, Italy); Mrs Marianna Lezzi (Università del Salento, Italy)
- **Steel Production Optimization.** Mr. Marcos Sacristán (Treelogic, Spain)

Digitising EU Industry DEI WG2 Report

WG2 aims to support the creation of next-generation digital platforms by defining possible next-generation platforms, reflecting on how building platforms should be approached on European level, and considering how existing and planned EU-wide, national, and/or regional platform development activities can contribute.

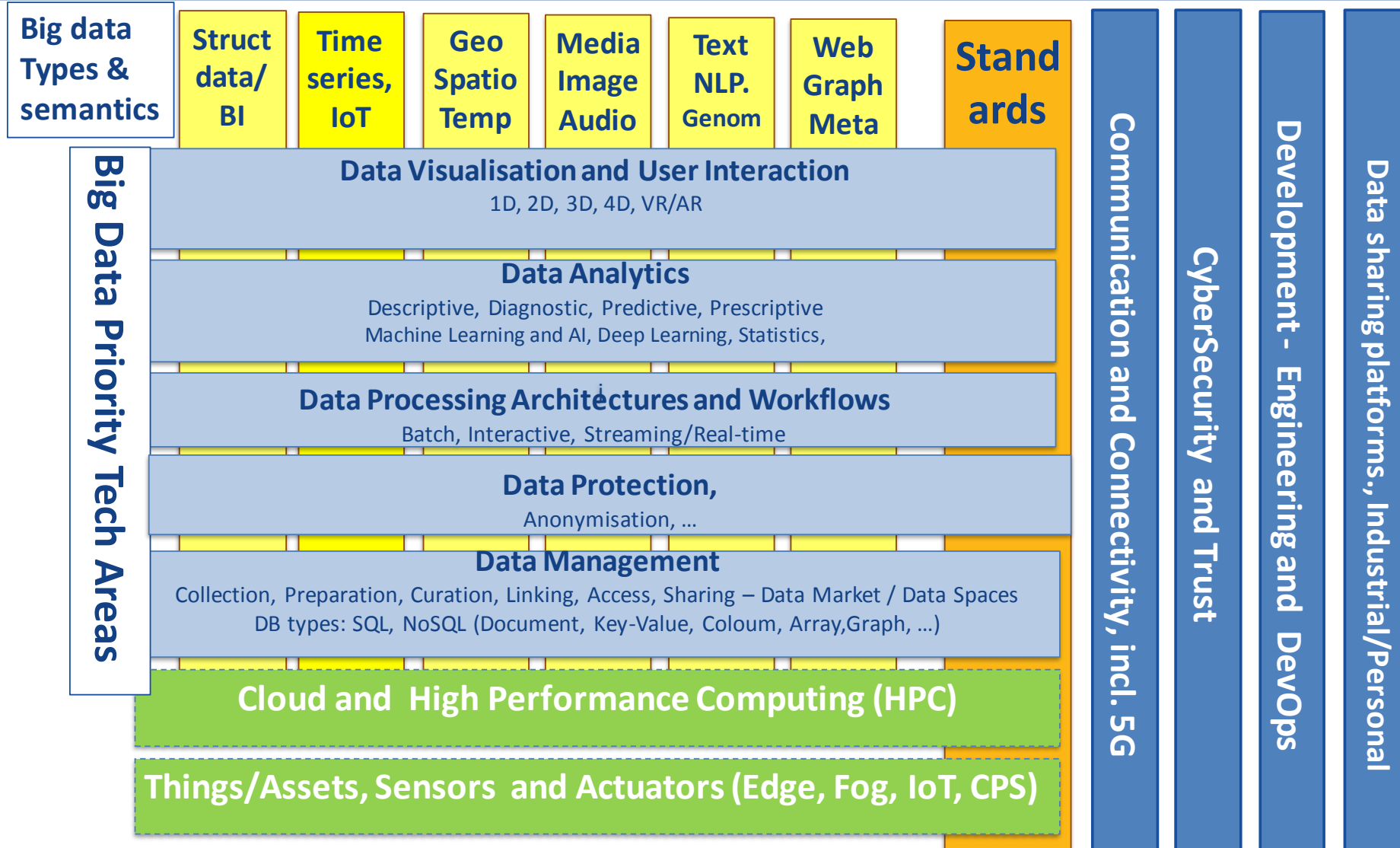
WG2 considers next-generation digital platforms in the following sectors/topics:

- **Connected Smart Factories**
- Smart Agriculture
- Digital Transformation of Health and Care
- **Industrial Data Platforms**
- Internet of Things

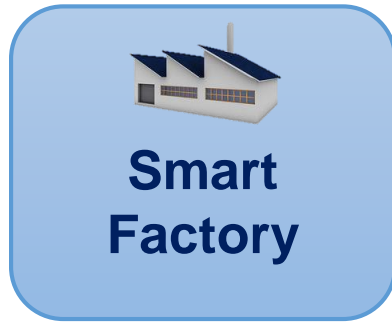
<https://ec.europa.eu/futurium/en/implementing-digitising-european-industry-actions/report-wg2-digital-industrial-platforms-final>

The BDVA Big Data Value Reference Model

Applications/Solutions: Manufacturing, Health, Energy, Transport, BioEco, Media, Telco, Finance, EO, SE, ...



The SMI Smart Manufacturing Scenarios



Industry 4.0 Scenarios
Factory Automation
Machinery & Robots
Internal Logistics
Smart Workplaces
Cyber Physical Systems
Production Monitoring Ctrl
Predictive Maintenance
Zero Defect Manufacturing

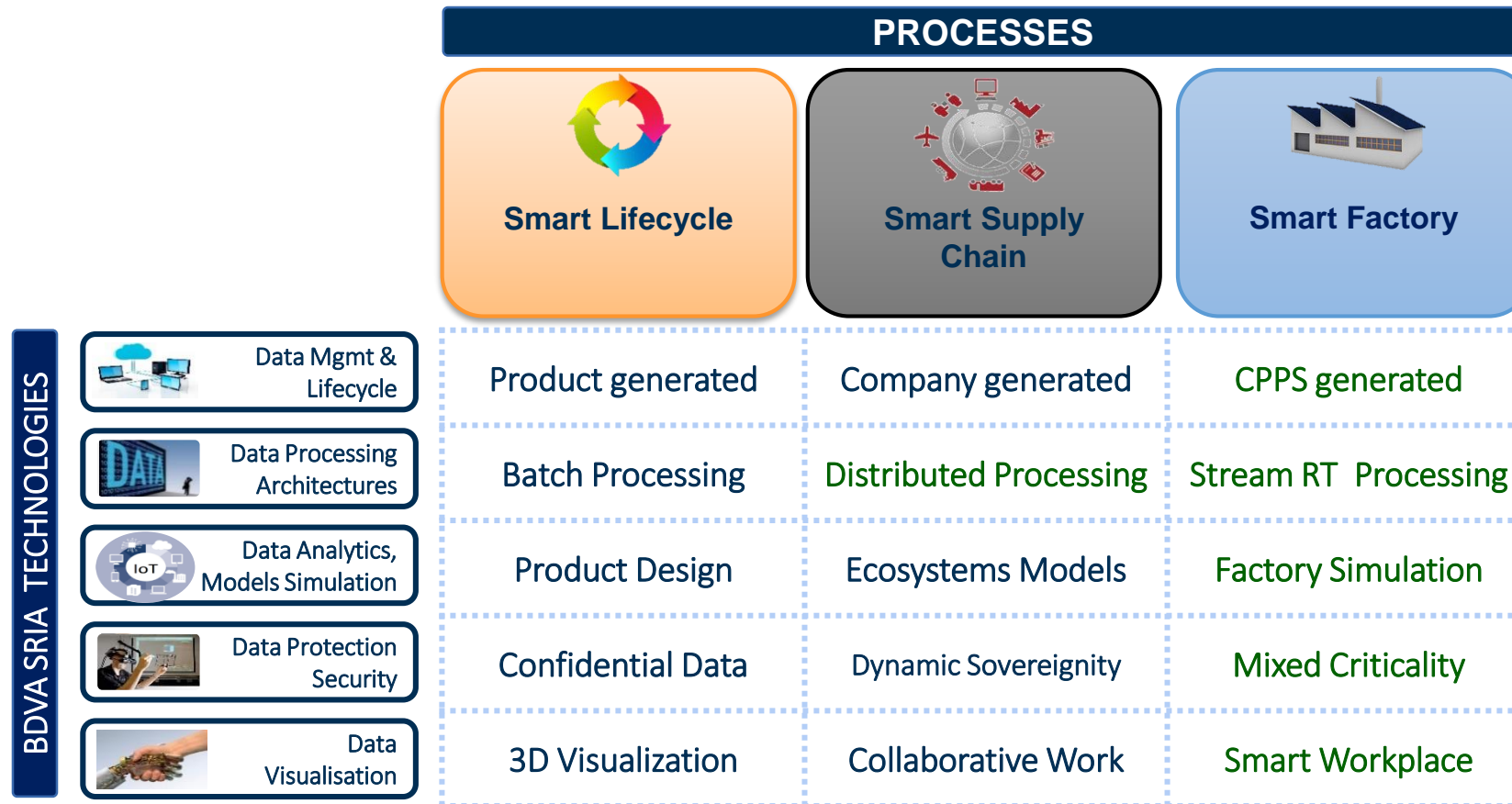


Product-Service Systems
Ideation LivingLabs
Product Design Engineering
Product Tracking & Tracing
As-design As-built As-Maint
End of Life Circular Economy
Post-sales Services
Sharing & Service Economy
Predictive Maintenance

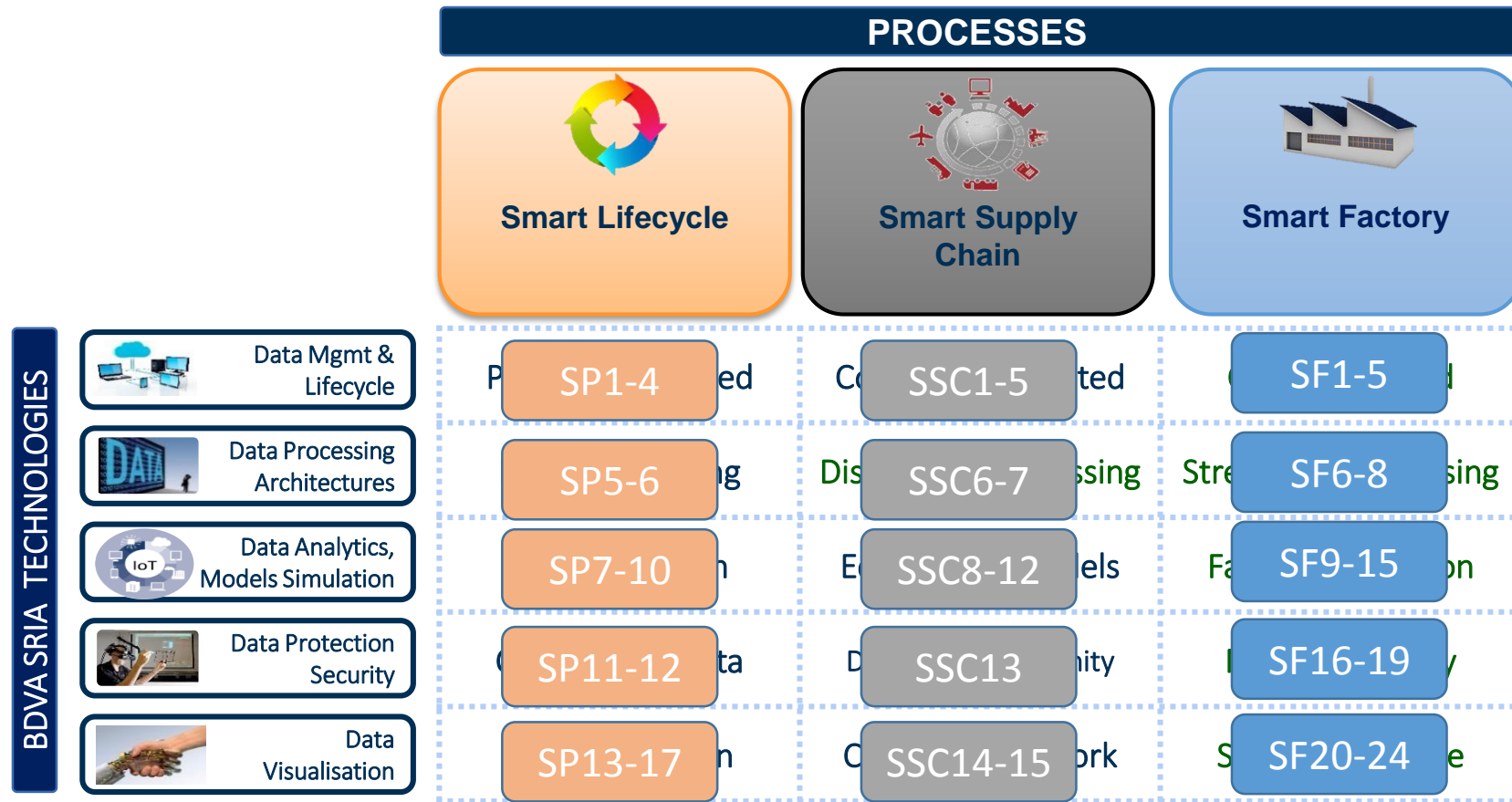


Supply Chain Management
Value Networks
Business Ecosystems
Cross-sector Ecosystems
System Interoperability
Human Collaboration
Business Modelling
Innovation Ecosystems
Co-opetition Models

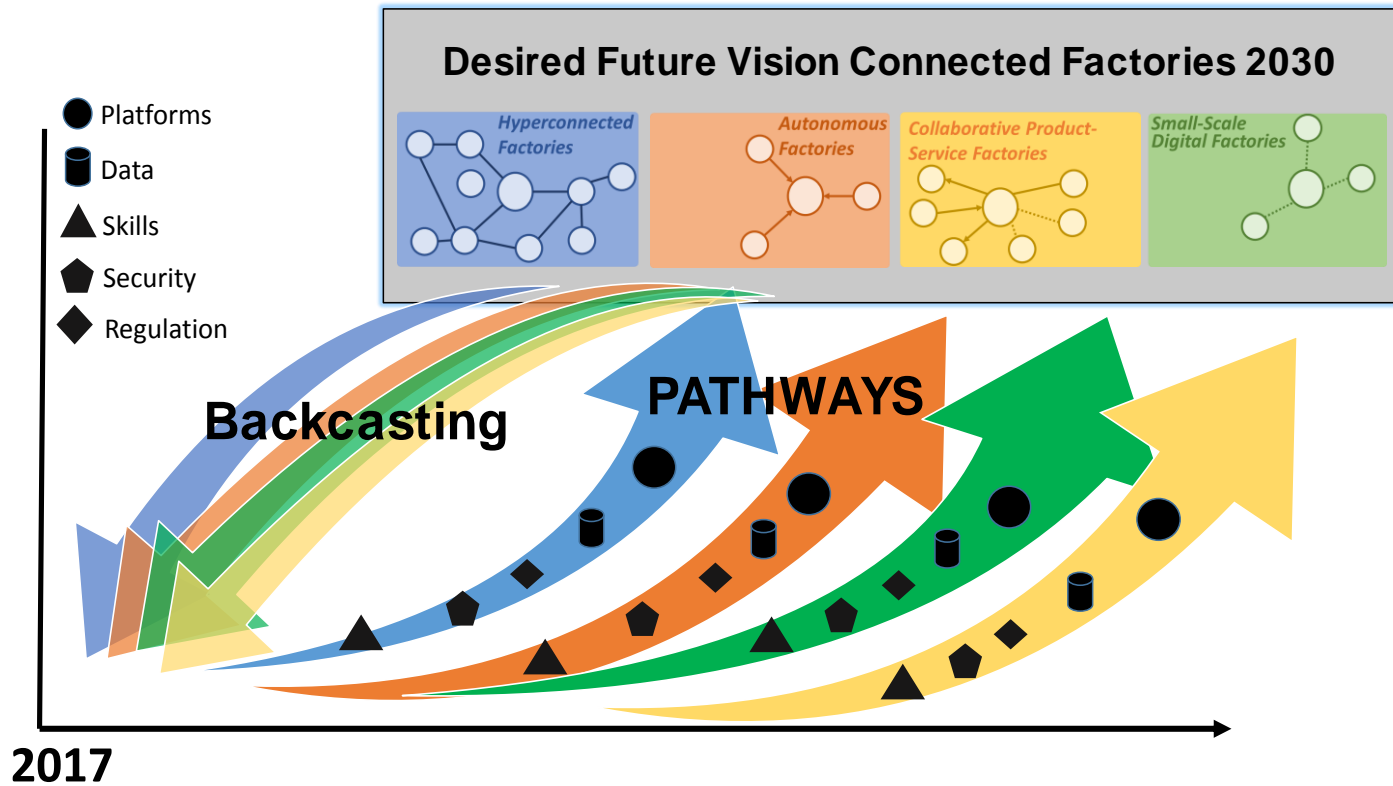
The reference framework & Technical Challenges



The reference framework & Technical Challenges



Validation with EFFRA Connected Factories 2025



Smart Manufacturing Industry SubGroup
Smart Supply Chain CF 2025 Scenario
HYPERCONNECTED FACTORIES

BDVA SRIA TECHNOLOGIES

Data Mgmt & Lifecycle	Priority	Time
Data Processing Architectures	Priority	Time
Data Analytics, Models Simulation	Priority	Time
Data Protection Security	Priority	Time
Data Visualisation	Priority	Time

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THANK YOU



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