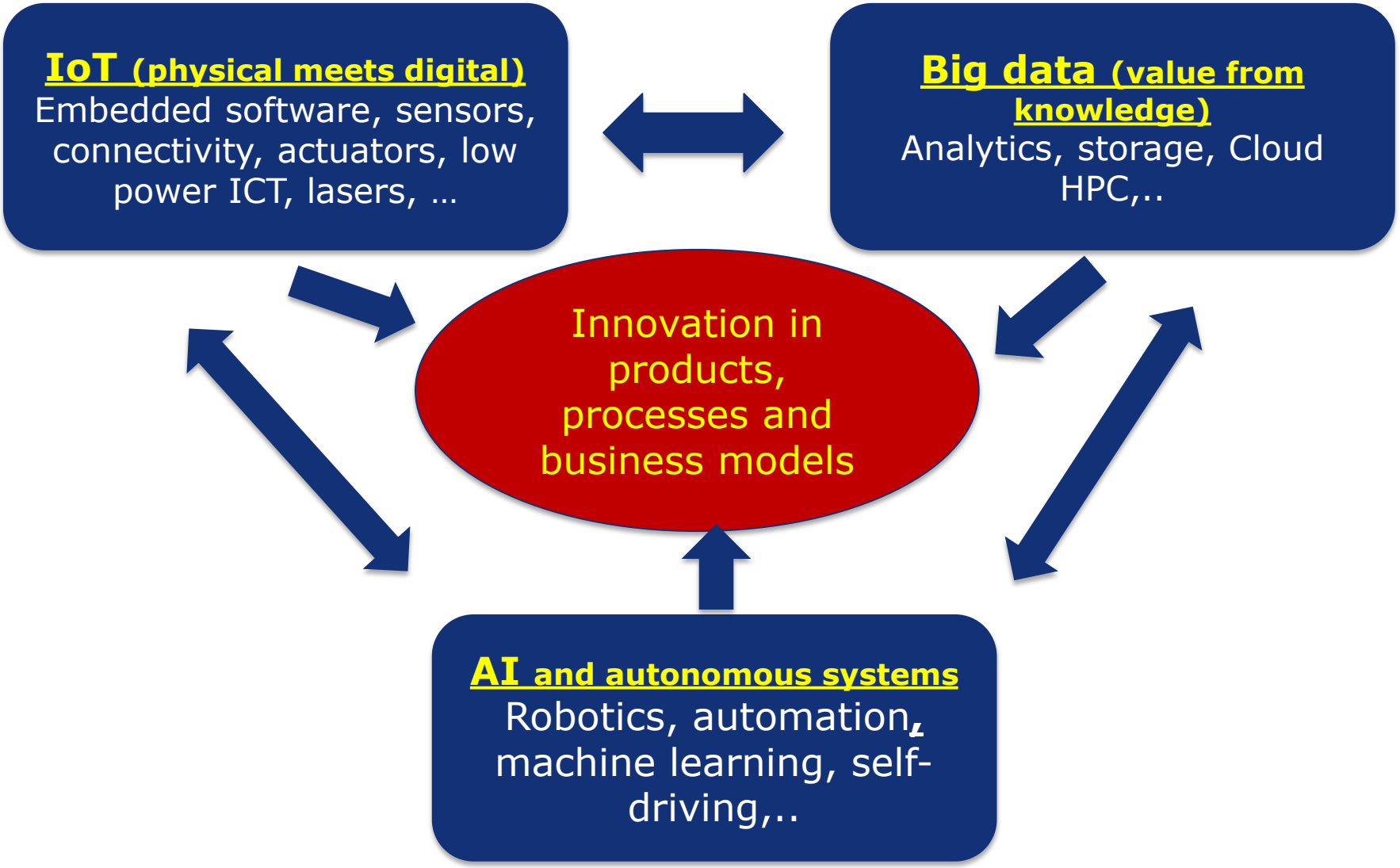
Implementing the Digitising European Industry initiative

Dr. Werner Steinhögl
European Commission - DG CONNECT

Technologies and Systems for Digitising Industry

#DigitiseEU

Technologies driving the digital transformation



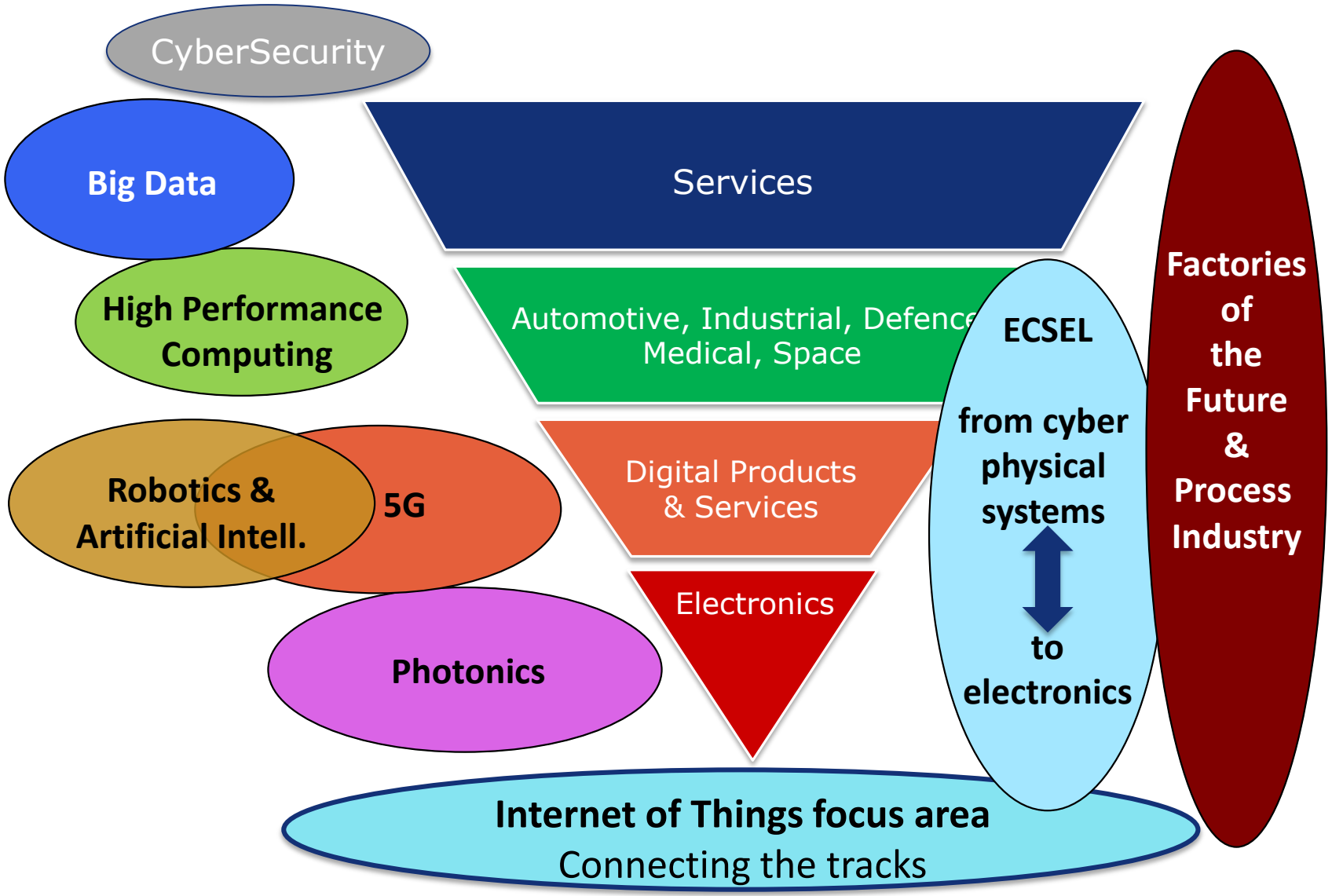
Digital value chains

Micro-electronics & Computing

Autonomous driving

Healthy aging

Public Private Partnerships (PPP) the supply of digital technologies



European Commission

DIGITISING EUROPEAN INDUSTRY
EC Communication

Digitising European Industry

To facilitate coordination of European, national & regional initiatives
such as Industrie 4.0 (DE), Smart Industry (NL) (SK), Industrie du Futur (FR)

Mainstreaming digital innovation across all sectors:
Setting up a pan-European network of Digital Innovation Hubs

Strengthening leadership in key parts of the digital value chain:
- Public-Private Partnerships
- Industrial platforms
- Large scale pilots & test beds

Preparing People for the digital age: Skills & Training

Regulatory framework:
- Free flow of data & data ownership
- Safety & liability of autonomous systems & Internet of Things

Challenges & opportunities of the **Internet of Things**

CLOUD
European Cloud Initiative in a data-driven economy:
- European Open Science Cloud
- European Data Infrastructure
- Widening access & building trust

High Performance Computing

Quantum

STANDARDS
Fast development in 5 priority areas:
- 5G
- Cloud Computing
- Internet of Things
- Data Technologies
- Cybersecurity

DIGITAL PUBLIC SERVICES
eGovernment Action Plan:
- New Digital Single Gateway
- eJustice Portal
- "Once-only" principle in Administrations
- Cross-border Health services
- eProcurement & "Once-only" in public procurement

To focus investments
(Horizon 2020, EU Investment Plan, EU Structural & Investment Funds, national & regional funds, private sector)

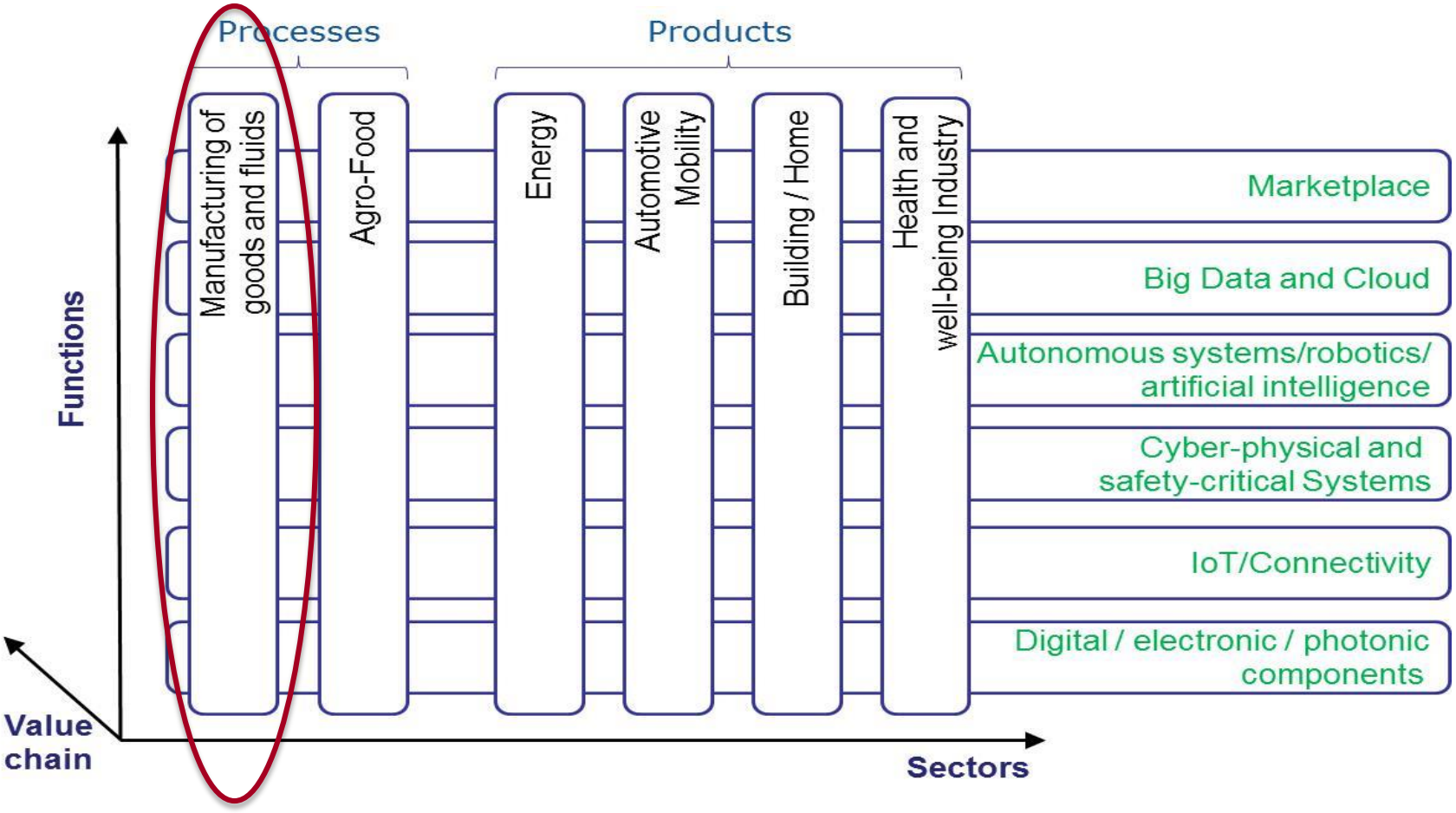
MOBILISING €50 bn of public & private investments

#DigitiseEU
@DSMeu

DigitalSingleMarket

bit.ly/DigitiseEU

Vision: Platforms to lead in digital technologies value chains



Key future challenges – Industry 4.0

Key challenges for Industry 4.0 (Kagermann)

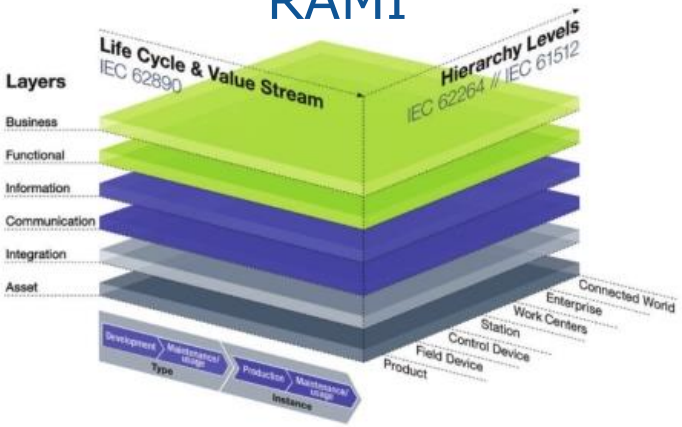
- Semantics and models for Industry 4.0
- Systems engineering for adaptive systems
- Logistics 4.0 – self organised and adaptive
- Automated contracting and value networks
- Autonomous production systems and human interaction

Starting Point: Industry–driven platforms

European Commission

Community-led sector-specific (vertical)

RAMI



FI-WARE

FITMAN

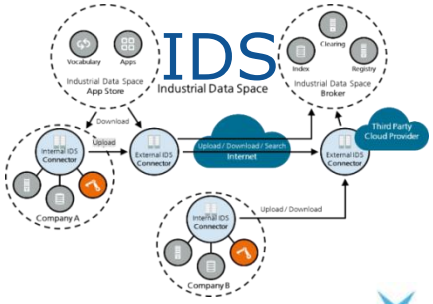
Community-led cross-sector (horizontal)

S3P

SMART, SAFE & SECURE PLATFORM

IDS

Industrial Data Space



AIOTI

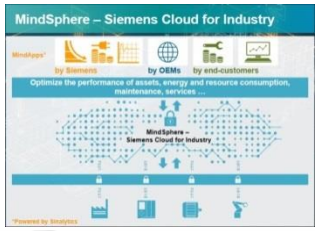
CRYSTAL

industrial internet CONSORTIUM

ARROWHEAD

Proprietary with open interfaces

SIEMENS



DASSAULT SYSTEMES

3DEXPERIENCE

Social and Collaborative apps
Related brands: ENOVIA, 3DSWYM

Information Intelligence apps
Related brands: EXALEAD, NETVIBES

Content and Simulation apps
Related brands: 3DVIA, DELMIA, SIMULIA

3D Modeling apps
Related brand: CATIA, GEOVIA, SOLIDWORKS

Real time 3DEXPERIENCE Platform

SAP HANA®

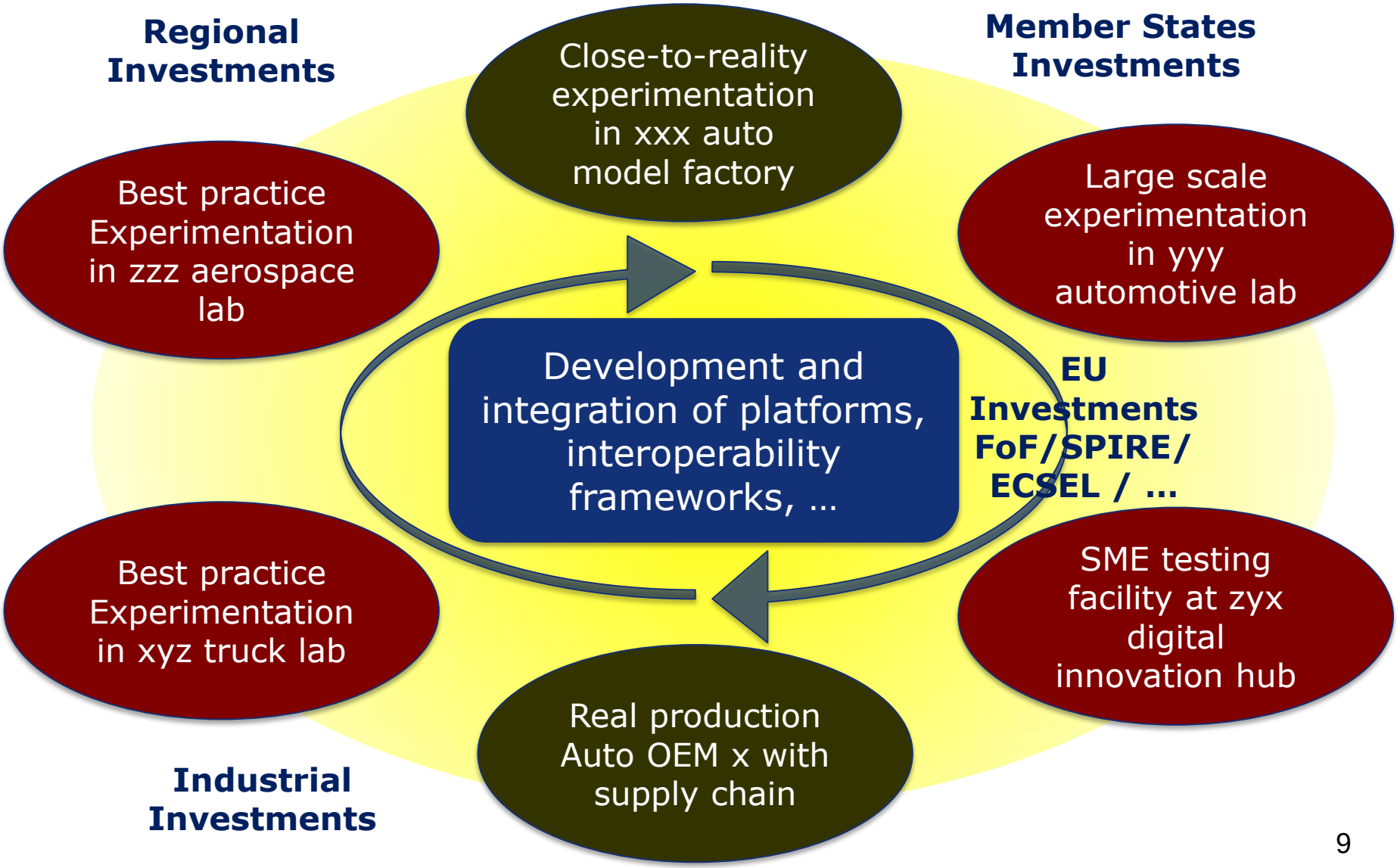
for Supply Chain and Manufacturing

GE

Predix

Your cloud platform for the Industrial Internet

Pooling of Resources – Co-investment



Summary

1. EC supports the digital transformation of industry.
2. We will reinforce partnerships with industry, member states and regions.
3. We will use the tools of Horizon2020 including ECSEL to support research and innovation.
4. We will organize a series of events to drive the partnerships.

THANK YOU
and
stay tuned!

Digitising European Industry
http://ec.europa.eu/digital-agenda/en/digitising-european-industry

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