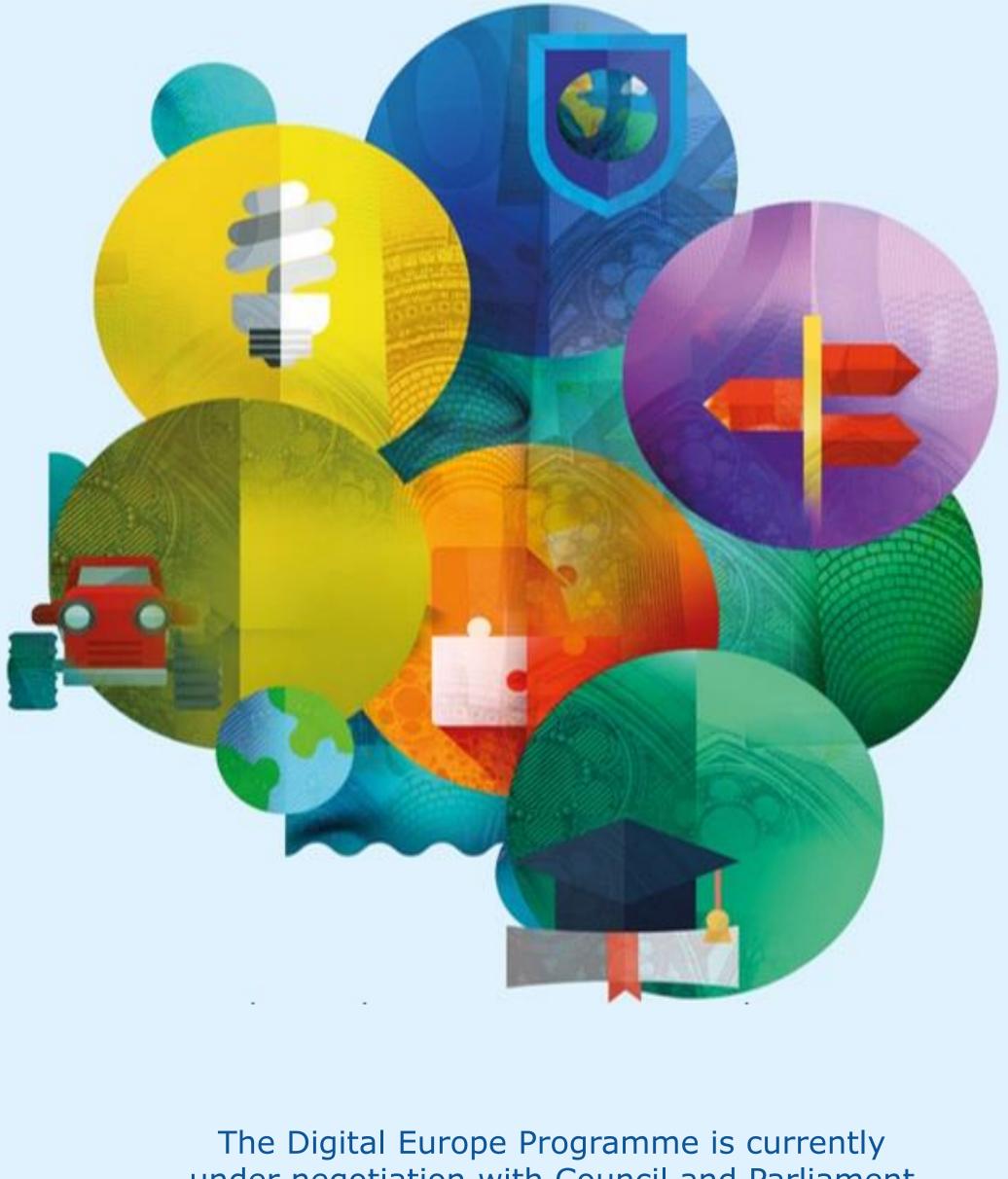
Towards Business Ecosystems

Manufacturing Performance Days

Tampere, 5 June 2019

Dr. Max Lemke CONNECT A2 - Digitising Industry European Commission – CONNECT max.lemke@ec.europa.eu



under negotiation with Council and Parliament

Some Key Industrial Policy Issues

- Strong competition of world regions and systems European co-operation more important than ever before Exploit economy of scale and large home market

- Many Member States call for a European industrial policy Industry 2030 High Level Group
- - Sovereignty Strategic Value chains IPCEIs HLG
 - Europe to match size and strengths of competitors
 - Foreign Direct Investments
- 2019/20 is an important period: → European elections - new Commission

 - \rightarrow New Programming Period 2021 27 under preparation → Finnish and German EU Presidencies

Creating Value through the Digital Transformation

Digitising European Industry Strategy (launched 2016)

- An EU approach for Broad Value Creation
- SMEs are at the core
- Digital Single Market is a pre-condition
- A European Approach to Al
- Leadership in Digital Industrial Platforms
- New programming cycle: Digital Europe (new), InvestEU, Horizon Europe, ERDF

Digital innovations for all: Digital Innovation Hubs

Strengthening leadership through partnerships & industrial platforms

European platform of national initiatives on digitising industry

A regulatory framework fit for the digital age

Preparing Europeans for the digital future





Europe's Artificial Intelligence Strategy - close link to Digitising European Industry

COM(2018) 237/2 -25 April 2018 **Artificial Intelligence for Europe**

Make AI accessible "on-demand" Take up through DIHs

HLG, Stakeholder Forum High-level Expert Group **European AI Alliance**

Ethical and legal framework, e.g. liability & access to data

> COM(2018) 795 – 7 December 2018 **Co-ordinated plan on Artificial Intelligence** COM(2019)168 – 9 April 2019 Digital Day 3 **High Level Expert Group on AI: AI Ethics Guidelines** Brussels - 26 June 2019 **Stakeholder Assembly of the AI Alliance**

Digital innovations for all: Digital Innovation Hubs

Strengthening leadership through partnerships & industrial platforms

European platform of national initiatives on digitising industry



A regulatory framework fit for the digital age

Preparing Europeans for the digital future

Build Europe's technological and industrial capacity in AI AI research excellence centres Testing facilities

Socio-economic changes: Build skills and pro-actively address jobs



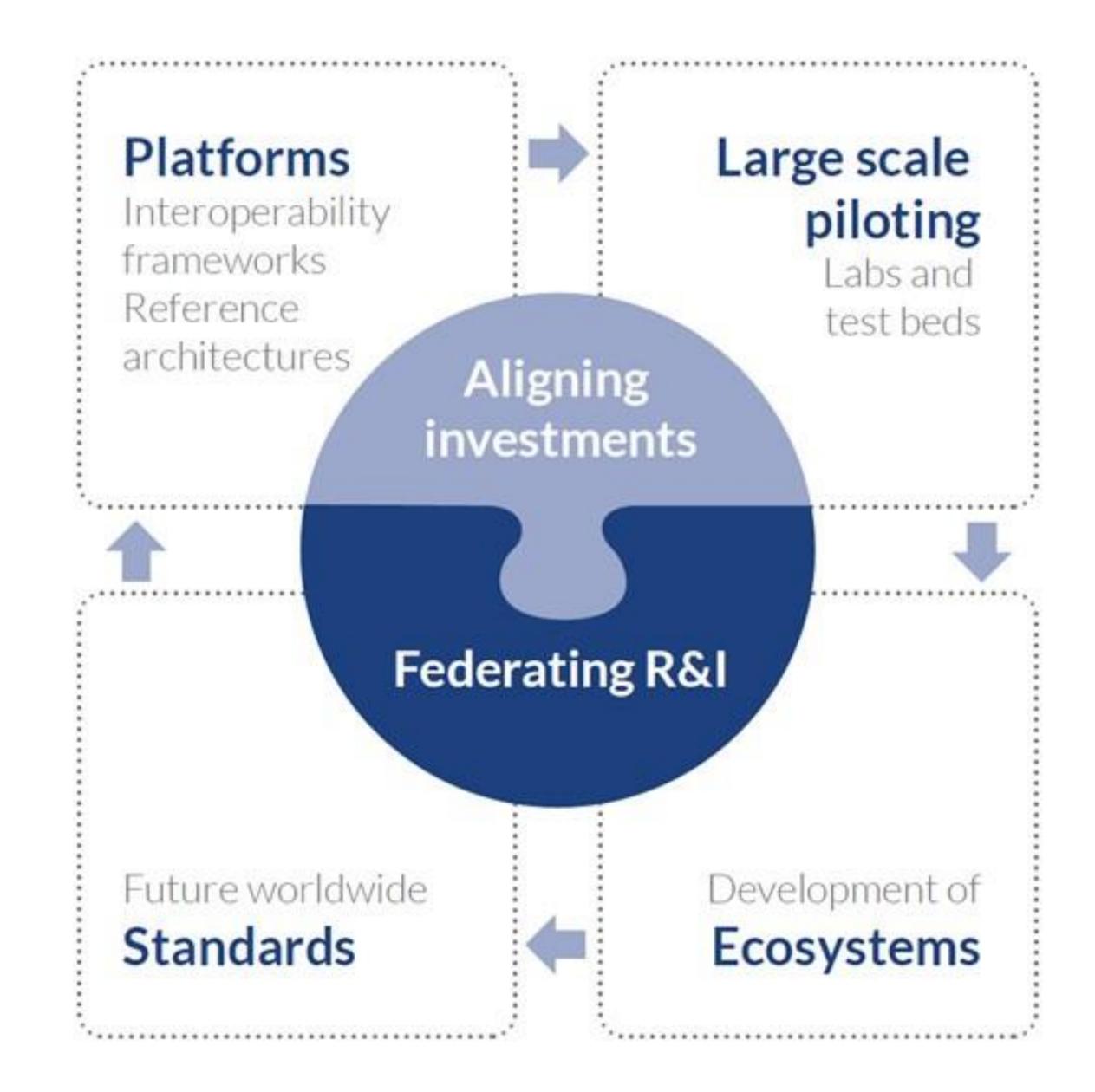






- In the Digital age, platforms are needed to access ecosystems
- Collaboration is the new competitive advantage
- Need for (new) business models for multi-sided marketplaces
- In Europe's key industrial sectors, European actors must be in the lead
- Data is the fuel of the next generation of digital advances
- One size does not fit all but too many platforms lead to fragmentation

Digital Industrial Platforms



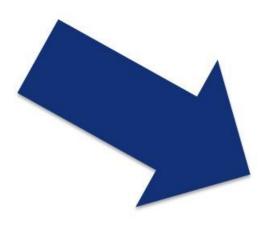






2016

- Collaborative manufacturing and logistics plus factory automation
- Multi-sided markets
- 53 M€, 10 Research and Innovation Actions

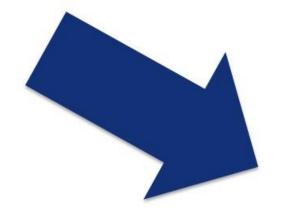


2018

- Consolidation from 2016 and cooperation with national initiatives
- DEI Focus Area: Platforms & Pilots
- 48 M€, 3 Innovation Actions

Digital Industrial Platform Building for Manufacturing: EU Strategy

Agile value networks; Zero-defects manufacturing



2019

- **Further Consolidation**
- Human factor; Sustainable value networks
- Market picking up b2b platforms:
 - \rightarrow Increased attention for user requirements
 - \rightarrow Federation of platforms
- 47 M€, Innovation Actions







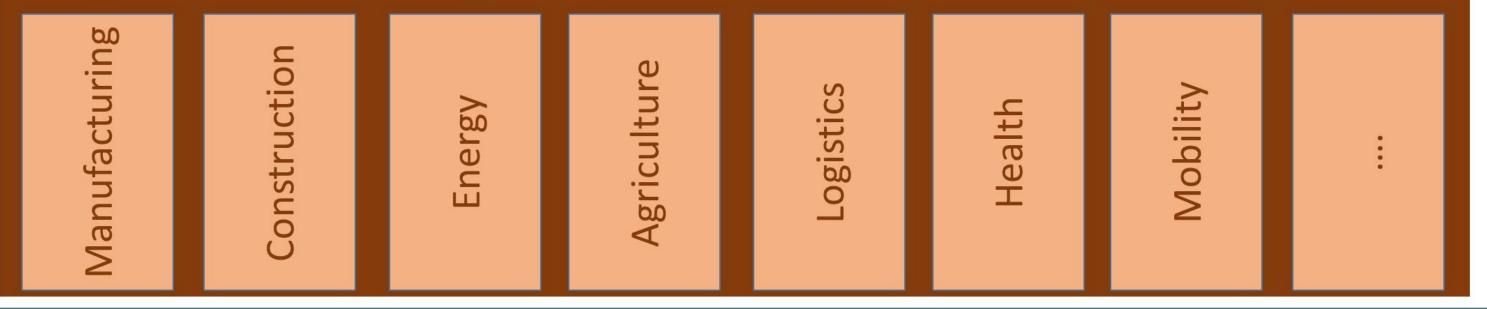


Common European Industrial IoT and Data Ecosystem

Secure & Trusted Data Spaces: Data access, sharing, valorisation

Industrial Cloud / Edge / Data Infrastructure & Marketplaces

Instantiation/exploitation of the ecosystem in verticals through large-scale experimentation and regulatory sandboxes – business value, user engagement



Scale-up: Digital Europe, Horizon Europe, MSs Programmes, ...

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End-to-End Security Spectrum ∞ rnance **Standardisation** Framework, Ve 0 (ワ International Regulatory

An Industrial Ecosystem Approach for Europe's Future: Some First Ideas

Digital Industrial Platforms driven by EU actors

Tools: Data Analytics MW-OS, security, CPS, AI & Cloud-edge Continuum, Digital Twin

5G industrial trusted and secure infrastructure, connected sensors

Skills development





- **Digitising European Industry** industry
- **Artificial Intelligence** https://ec.europa.eu/digital-single-market/en/artificial-intelligence
- **Strategic Value Chains** strategic-value-chains?inheritRedirect=true



https://ec.europa.eu/digital-single-market/en/policies/digitising-european-

http://s3platform.jrc.ec.europa.eu/-/european-commission-announces-the-key-