Dublin — June 20-23, 2022

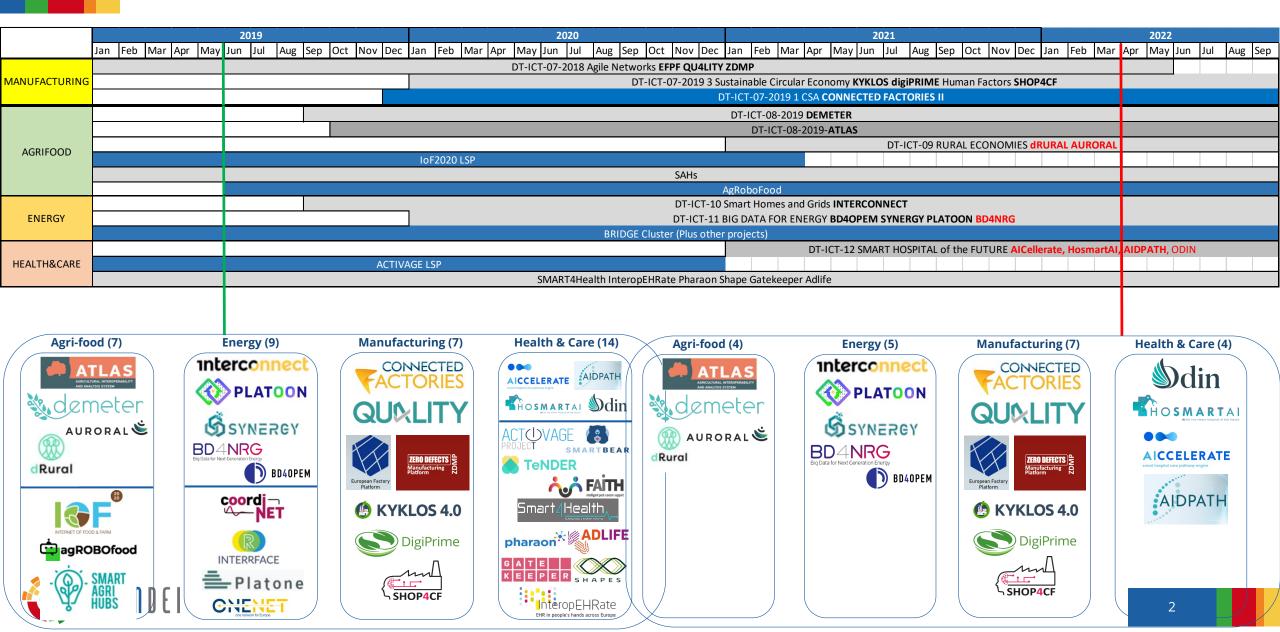
Industrial IoT Platforms and Industrial Cases for Circular Manufacturing

Sergio Gusmeroli (Politecnico di Milano), June 22nd 2022

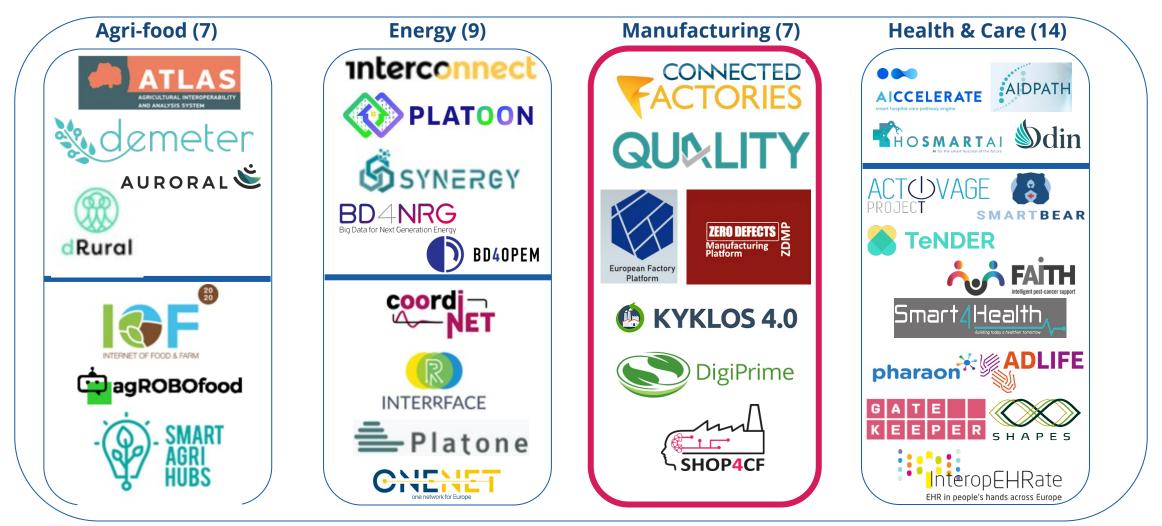
GLOBAL VISION: IoT TODAY AND BEYOND



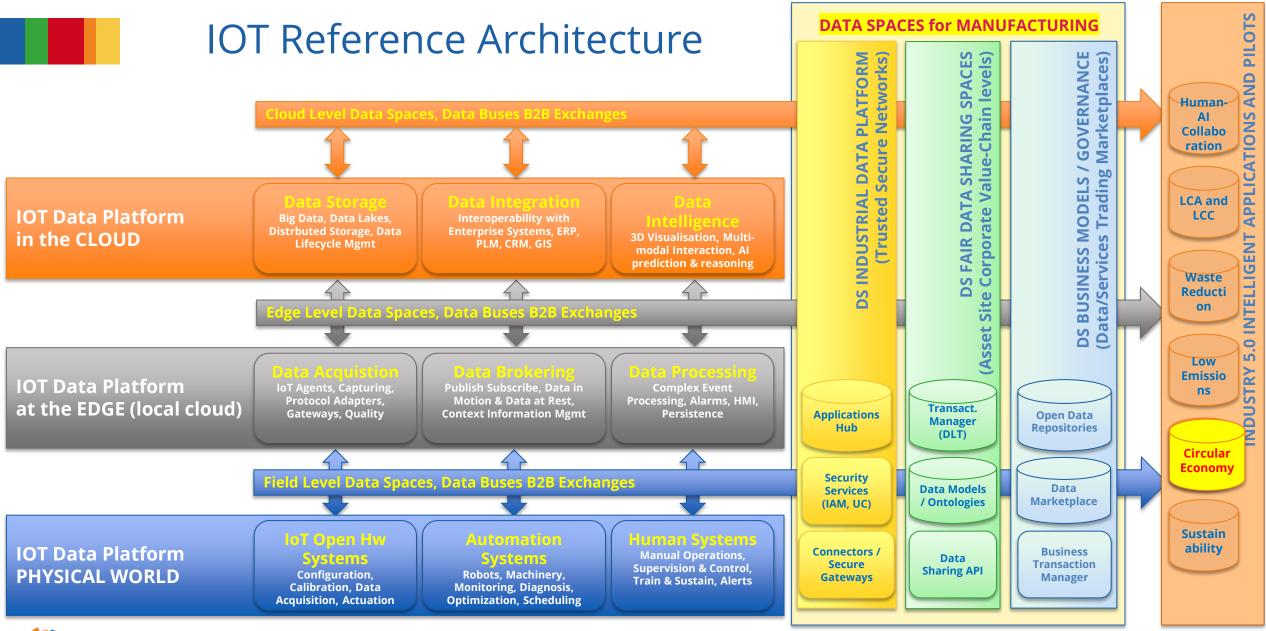
OPEN DEI Ecosystem: 4 domains, 20 inner circle, 16+ outer circle



The OPEN DEI ecosystem: 35+ Ecosystem Projects (incl. 2 LSPs)









Industrial IOT Data Spaces in Manufacturing



Deploying the strategy through 4 Pillars







A cross-sectoral governance framework for data access anduse

including a legislative framework for the governance of European data spaces and other cross- sectoral measures for data access and use

Enablers

Competences Empowering individuals, investing in digital skills & data literacy and in dedicated capacity building for SMEs.

Rollout of common European data spaces

in crucial economic sectors and domains of public interest. looking at data governance and practical arrangements.

European

Data Sharing and Reuse Data Sharing obstacles







Total investments of € 4-6 billion in a High Impact Project on European data spaces and federated cloud infrastructures



50% 51% 48% 47% 44% 43% 43% all Banking Insurance Telecon Antonotive Puttonoutive Publicenties not publicative publica

Banking, insurance, and telecom sectors lead in data-driven decision making

Decision making in our organization is completely data-driven

Source: Capgemini Research Institute, Data-powered enterprises survey, August 2020, N=1,004 organizations,

29/07/2022

Figure 4

65%

55%

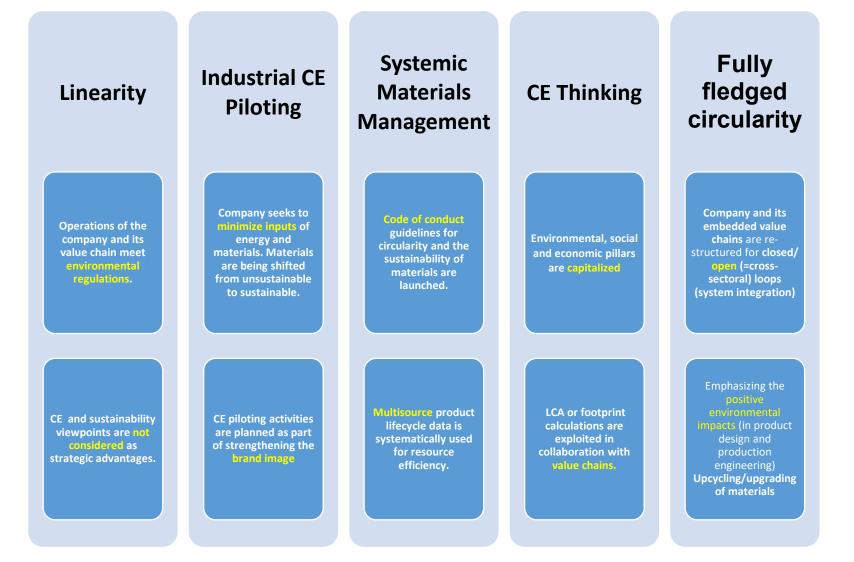
54%

53%



Everis 2018 ublications.europa.eu/en/publication-detail/-/publication/8b8776ff-4834-11e8-be1d-01aa75ed71a1/language-e

Circular Economy for Manufacturing pathway

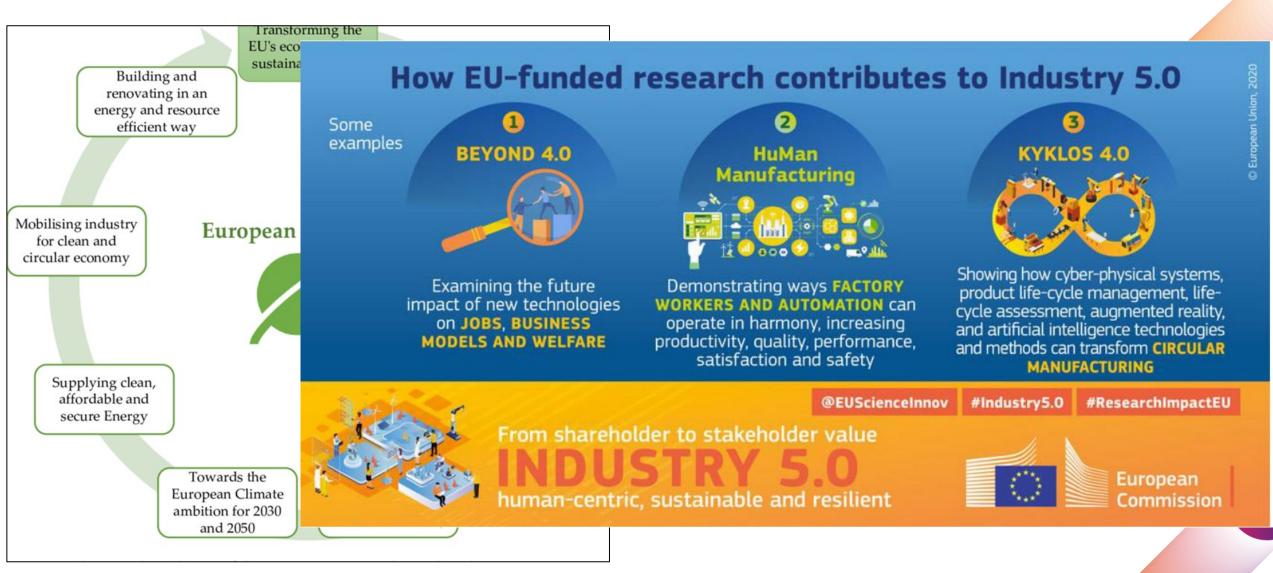




Industry 5.0 paradigm: Circularity



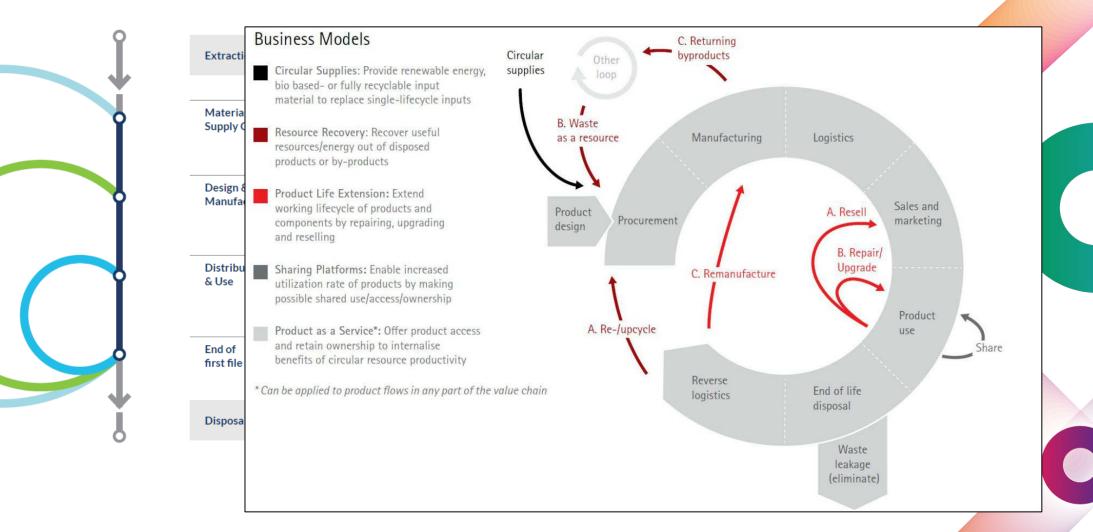




Twin Transition in Manufacturing

Circular Economy Diagram

(Source: Closed Loop Partners)²



KYKLOS

OTWeek

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Dublin —

AGENDA

- Industrial IoT Platforms and Industrial Cases for Circular Manufacturing by Sergio Gusmeroli
- Development of a digital twin to achieve enhanced processing efficiency and sustainability by Denis Dowling
- IoT for manufacturing repurposing of advanced textile solutions: a case study by Alissa Zaccaria
- Digitizing the Circular Chain with IoT and Digital Product Passports: a Cross-Sector approach by John Soldatos
- IoT as an enabler for Circular Manufacturing: self-symbiosis in Zinc Alloy production by Alessandra Arezza
- Cognitive Digital Twins for optimized manufacturing operations by Kostas Kalaboukas
- Panel Discussion: the role of IoT Platforms in Circular Manufacturing (Modera Technology Transfer and New vation **Business Development Manager** Sergio Gusmeroli and Denis Dowling)



Speaker DGS S.p.A. R&D Project Manager



Kostas Kalaboukas Speaker

Gruppo Maggioli





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Thank you!

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