



The European Manufacturing System

Klaus Beetz

CEO EIT Manufacturing

November 26th, 2022



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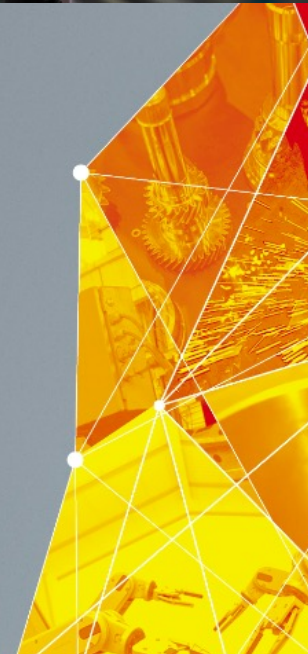
WORLD MANUFACTURING FORUM

WMF

REDESIGNING
SUPPLY CHAINS IN
THE NEW ERA OF
MANUFACTURING

25-26 NOVEMBER 2022

Porsche Experience Center Franciacorta



Manufacturing – A base for prosperity in EU



2.1M+
enterprises



€7.11Tr
in turnover



32M
jobs (16% of the total
EU working population)



13M
Jobs in the growing
high-tech manufacturing



16.1%
Share of EU-28
GDP (2016)



80%
of EU exports



Manufacturing



Co-funded by the European Union



A strong European community



Manufacturing



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Our vision

Global manufacturing
innovation is led by Europe.

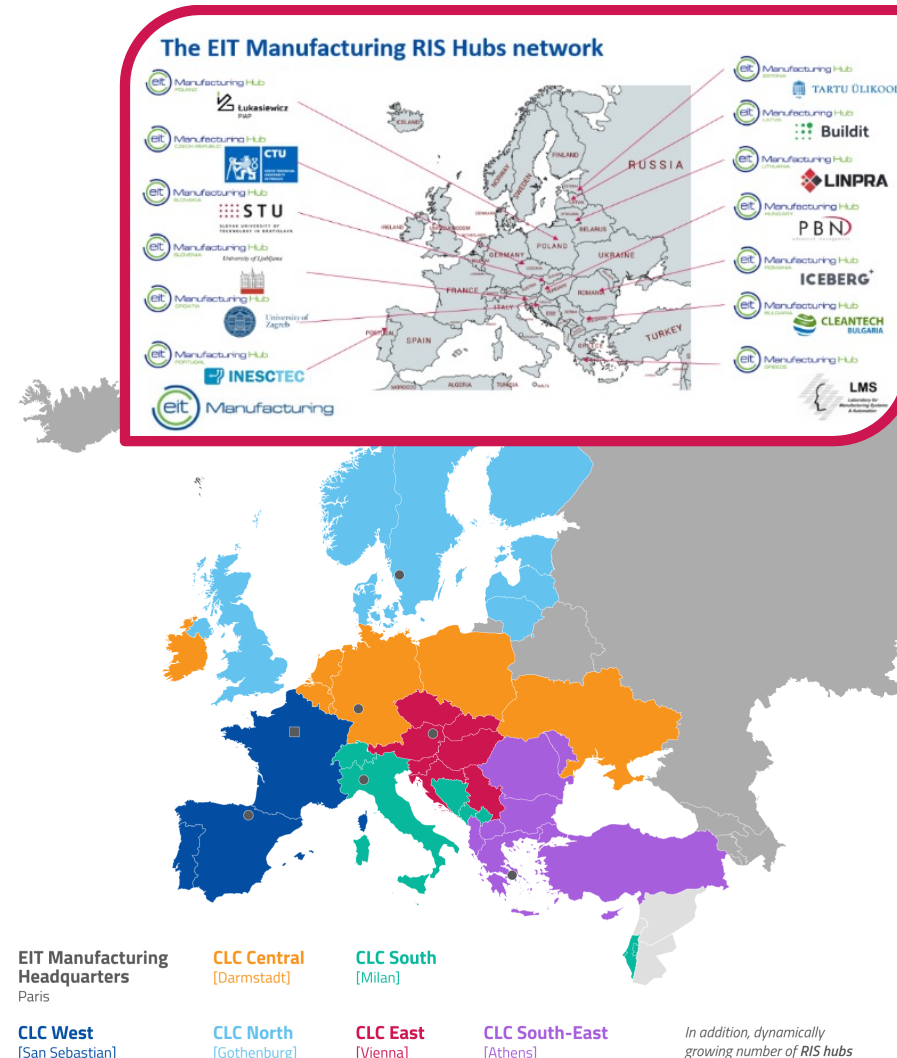


Our mission

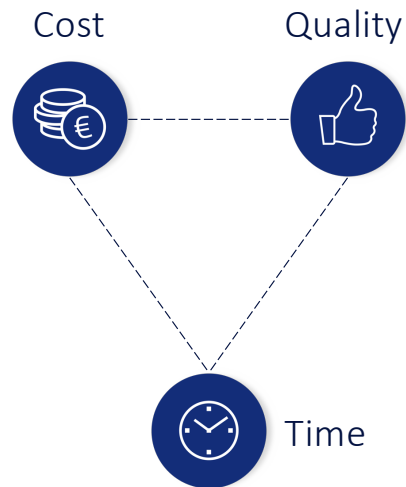
Bring together manufacturing
actors across Europe to integrate
innovation and education for an
entrepreneurial and sustainable
Europe.

Unique Approach – Our Offer

- Public-private partnership
- 6 European Co-Location Centres plus 12 Innovation Hubs in Eastern Europe and other regions
- Unique Europe-wide network of industry and science
- Holistic approach integrating Innovation, Business Creation and Education
- Our European **learning platform Skills.Move**
www.skillsmove.eu with state-of-the-art content
- Our **social network and innovation platform AGORA**, agora-eitmanufacturing.eu
- Coaching and support for start-ups



Re-thinking Manufacturing



Operational Excellence Dimension
Continuous Improvement
Still to be managed



Many companies purely
focused on optimizing
current system

Sustainability (recycling,
minimizing energy
consumption and waste)
crucial for long term survival

Rethink **what** we
manufacture and **how** we
manufacture



Sustainability Dimension

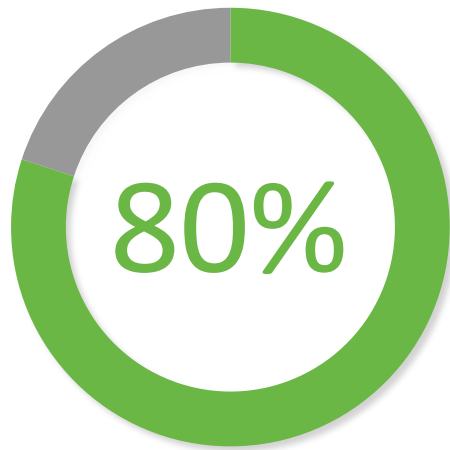
Crucial For survival

Twin Transition

Innovation and Entrepreneurship

Supply chain resilience

Waste free manufacturing: a must for Europe's Green Deal



of a product's environmental impact depends on product & process development

And the ambition is to triple the value of Europe's **remanufacturing sector to €100 billion by 2030.**

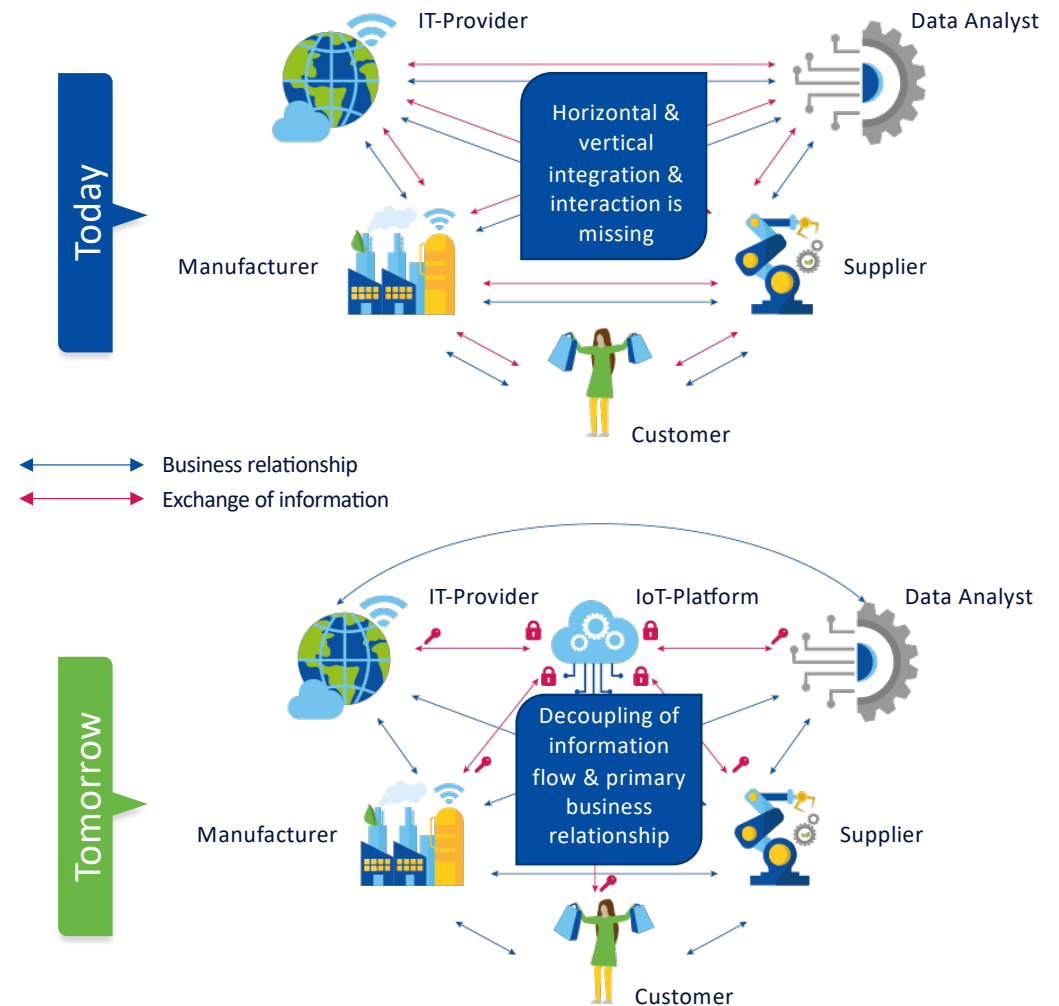


The European Manufacturing System

Develop the manufacturing system of the future for discrete and process industry by integrating

- sustainability as a decision factor
- abilities of emerging technologies
- abilities of emerging concepts
- abilities of emerging value chains

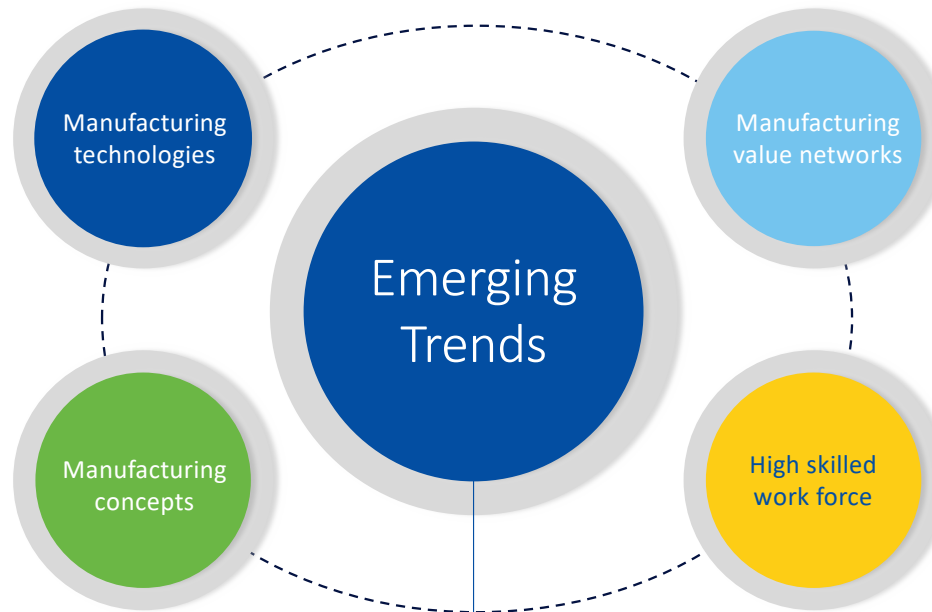
→ augmented high-skilled workforce



Emerging Trends

Composite fabrication, additive manufacturing, laser processing, advanced and emerging materials, ...

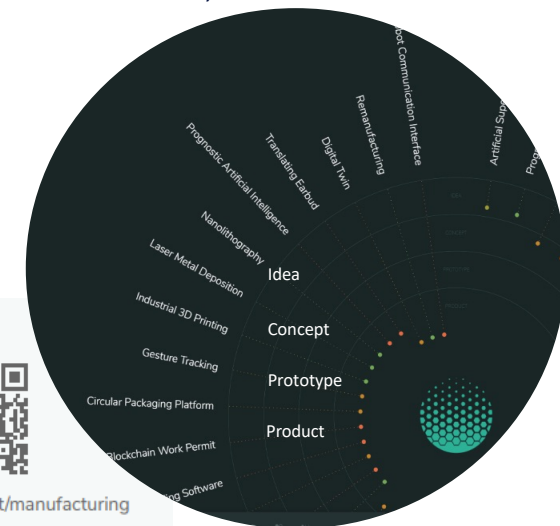
Autonomous, self-organized production, autonomous transport solutions automate warehouse and production by swarm intelligence,...



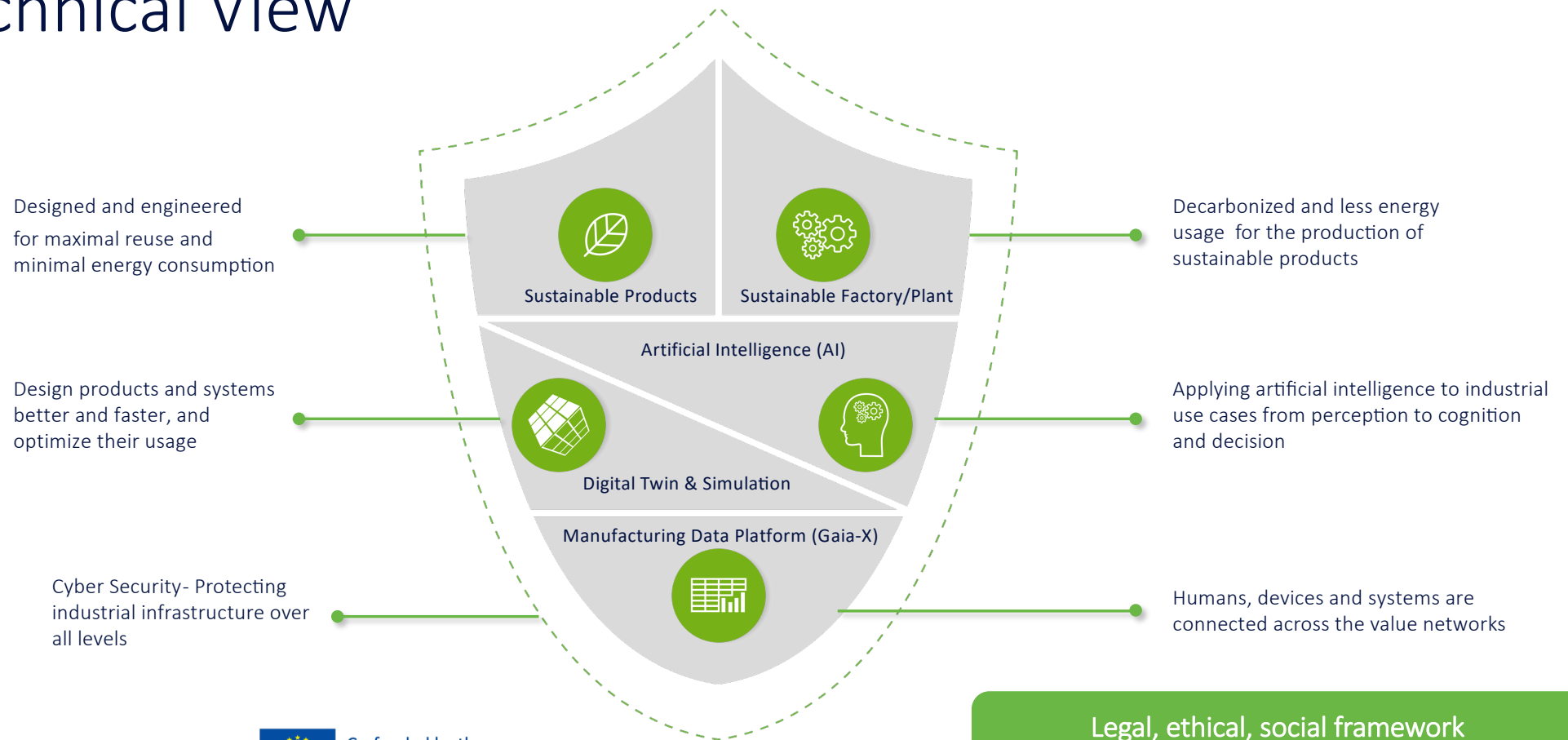
Manufacturing as a service' via marketplaces, Manufacturing data spaces & B2B ecosystems, ...

Inter- and multidisciplinary collaboration, teamwork and high flexibility, human machine interaction, ...

Integrating all the current emerging developments in a holistic human-centric and innovation-driven view.
A joint task of industry associations, politics and European as well as national collaboration networks

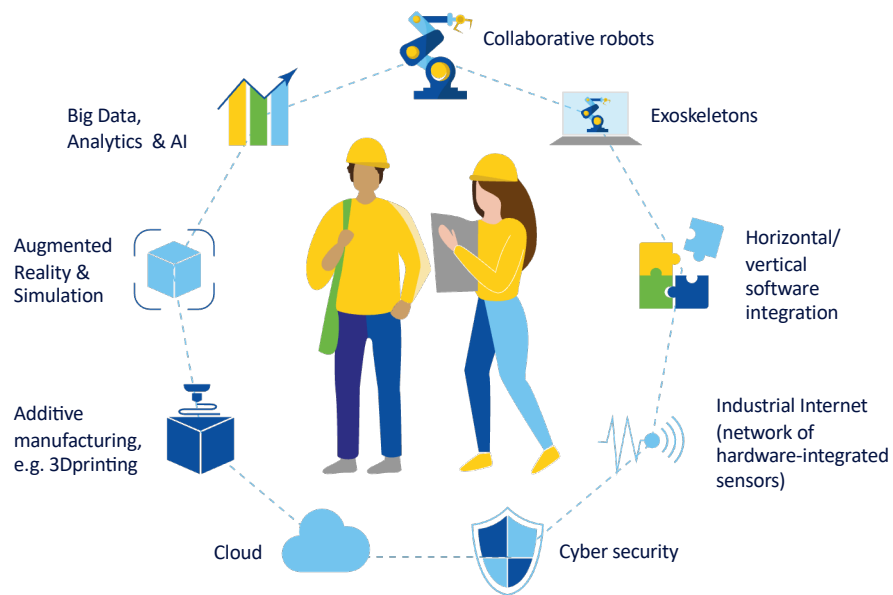


The European Manufacturing System Technical View



The European Manufacturing System

Socio-technical view



People remain integral parts of manufacturing

Teamwork and networking become more important

Interdisciplinary collaboration in (virtual) teams

Complementarity between people and technology -> Employees, machines and companies interact flexibly

Greater flexibility and new competences are required

Shift to higher qualification level of employees is going on

Deep Tech Talent Initiative (DTTI)

- Goal to train **1 million individuals in Deep Tech** over a three-year period, based needs in the field
- In areas such as new materials and synthetic biology to cleantech to accommodate a changing EU labour market.



The screenshot shows the top section of the DTTI website. It features a dark blue background. In the top left, there is the 'eit Tech Talent' logo and the European Union flag with the text 'Funded by the European Union'. In the top right, there are search and menu icons. The main headline reads 'Securing the future of Europe's competitiveness. One million people skilled in deep tech by 2025.' Below this is a button labeled 'THE INITIATIVE'. On the right side, there is a circular image of two people, a woman and a man, looking at a laptop screen. The image is overlaid with a green and blue circular graphic.

Select Pledge based on member type

Member type:
Education and Training provider

→

Member type:
Enterprises or Enterprise Association

→

Member type:
Financing partners

→

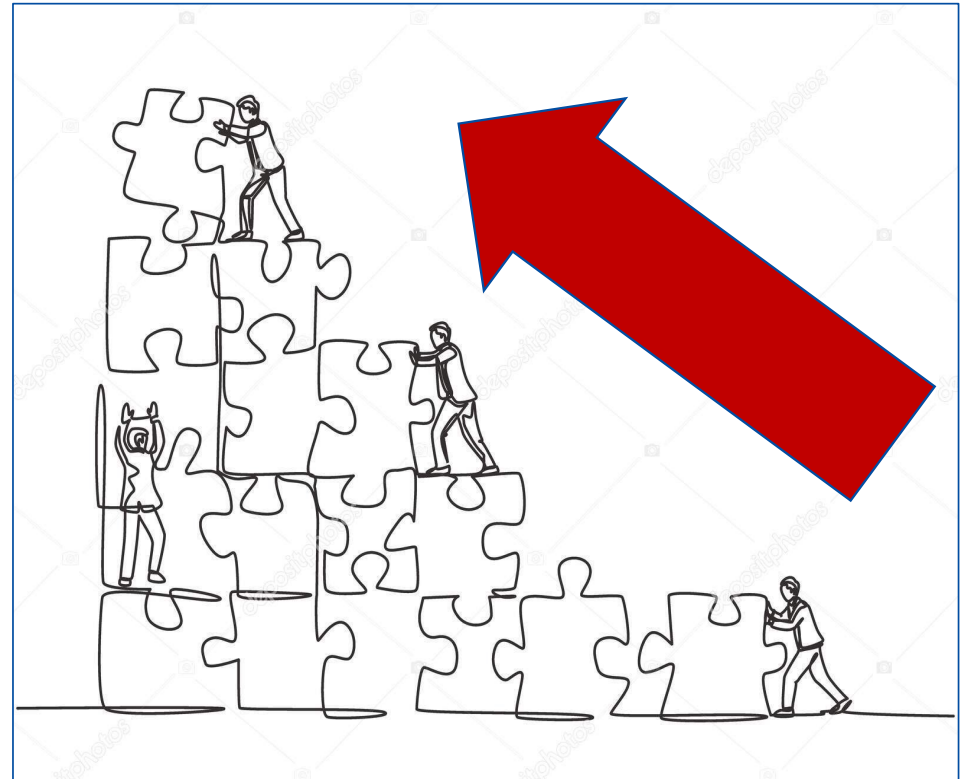
Member type:
Member States and Institutional partners

→

The European Manufacturing System

Success factors for establishment in industry

- Focus on sustainability
 - Standardization and open interfaces
 - Identify and develop solutions for the missing links
 - Cyber security and data sovereignty
 - Involvement of employees / training opportunities
 - Active support of SMEs
- **EIT Manufacturing will support this over the next years**





Thank you!

@EITManufactur
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