



EIT Manufacturing

A new member of EIT's
Innovation Community



EIT Manufacturing is supported by the EIT,
a body of the European Union



Klaus Beetz, CEO | Smart Factories for the Future of EU | 2020-07-08

Manufacturing matters!

The manufacturing industry is a global base for prosperity and key to Europe's economic, social and environmental sustainability. Manufacturing is a main driver of industrial innovation, job creation and growth for the European society.



Over 2.1 million manufacturing enterprises



16.1 % of the share of EU-28 GDP² (2016)



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



Total turnover of EUR 7.11 trillion³



Approx. 13 million jobs in the growing high-tech manufacturing industry¹

Vision and Mission

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

Integration of the Knowledge Triangle

By bringing together the three sides of the '**knowledge triangle**': business (large companies, SMEs and Start-ups), education institutions and research centres, we aim to increase the cooperation and integration between education, business and research.

We will connect:



The diagram consists of three magenta rectangular boxes with rounded corners, arranged horizontally. Each box has a blue circle at its top center. The text inside each box is white. The first box on the left contains the text 'People with Skills'. The middle box contains the text 'Technologies with Markets'. The third box on the right contains the text 'Innovators with Investors'.

People with Skills

Technologies with
Markets

Innovators with
Investors

A Strong and Unique Partnership

47% Industry

Electronics and Digital	Atos	eni get it right	SIEMENS	CONTACT Software	PHILIPS
Automotive	VW	MANORAGON	VOLVO	brembo.	MAGNA
Aerospace	ITP Aero	Avio Aero	AERnova	aerospace valley	
Robotics	KUKA				
Machinery & Equipment		LINPRA	SANDVIK		
	COMAU	PRIMA INDUSTRIE	FESTO	fives	ultimate machines ultimate factory
Consumers Goods, Medical Equipment and Process Industries	ACCELL GROUP	stryker	Whirlpool	ArcelorMittal	SONAE

33% Universities

ARTS ET MÉTIERS ParisTech	SUPSI	PW TU DARMSTADT	RUB
CENTRALE NANTES	CHALMERS UNIVERSITY OF TECHNOLOGY	Grenoble INP	
UCD DU LUX	TU Delft	LMS Laboratory for Manufacturing Systems & Automation	CTU Czech Technical University in Prague
STU SLOVAK UNIVERSITY OF TECHNOLOGY IN BRATISLAVA	A! Aalto University	POLITECNICO MILANO 1863	TAMU CLIMATE STP
TU WIEN	TECHNISCHE UNIVERSITÄT WIEN	POLITECNICO DI TORINO	Technische Universität Braunschweig

20% RTOs

Fraunhofer	INNOVATION LASTURHIE COMPOSITES
DFK German Research Center for Artificial Intelligence	VTT
RISE	cea
JOANNEUM RESEARCH	
Manufacturing alliance	tecnalia
BIBA	INESCTEC

Info June 2020

Co-Location Centres

Legal Entity
France

Head Quarters
Paris

5 Co-location
Centres (CLCs)

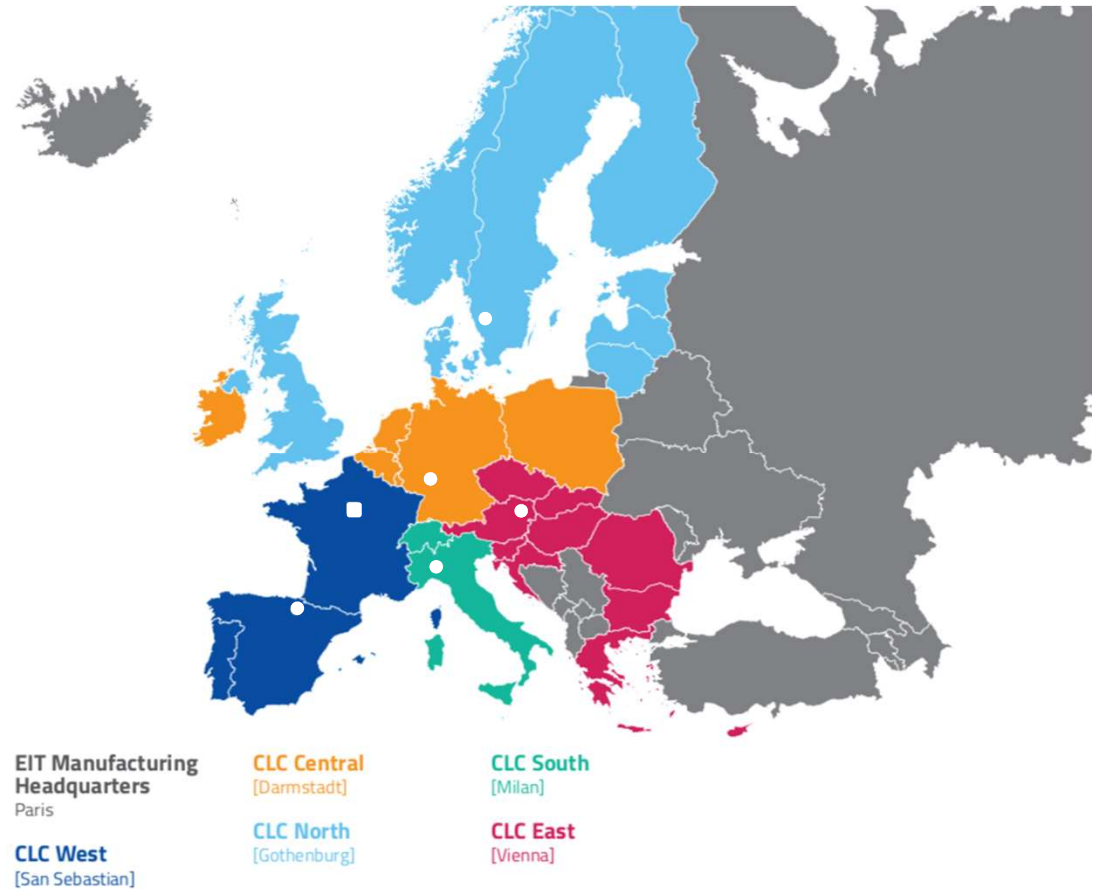
Bilbao

Gotenburg

Darmstadt

Milano

Vienna



Strategic approach

4 Flagships

- 1) **People and Robots for Sustainable Work**
- 2) **Additive Manufacturing for Full Flexibility**
- 3) **Zero-waste Manufacturing and Circular Economy**
- 4) **Platforms for Digitalised and Value networks**



People and Robots for Sustainable Work

Industrial robots, capable of collaborating and interacting with humans are key enabling technologies to simultaneously achieve human well-being and manufacturing performance.



Additive Manufacturing for Full Flexibility

Additive Manufacturing of multiple material combinations enables personalised products and advanced servitization, meeting economic and environmental challenges.



Zero-defect Manufacturing and Circular Economy

Digitalisation of zero-defect manufacturing increases the efficiency of industrial processes. Our programmes will boost technical advancement and shifts in skills, mindsets and behaviour, to innovate and responsible production patterns.



Platforms for Digitalised Value Networks

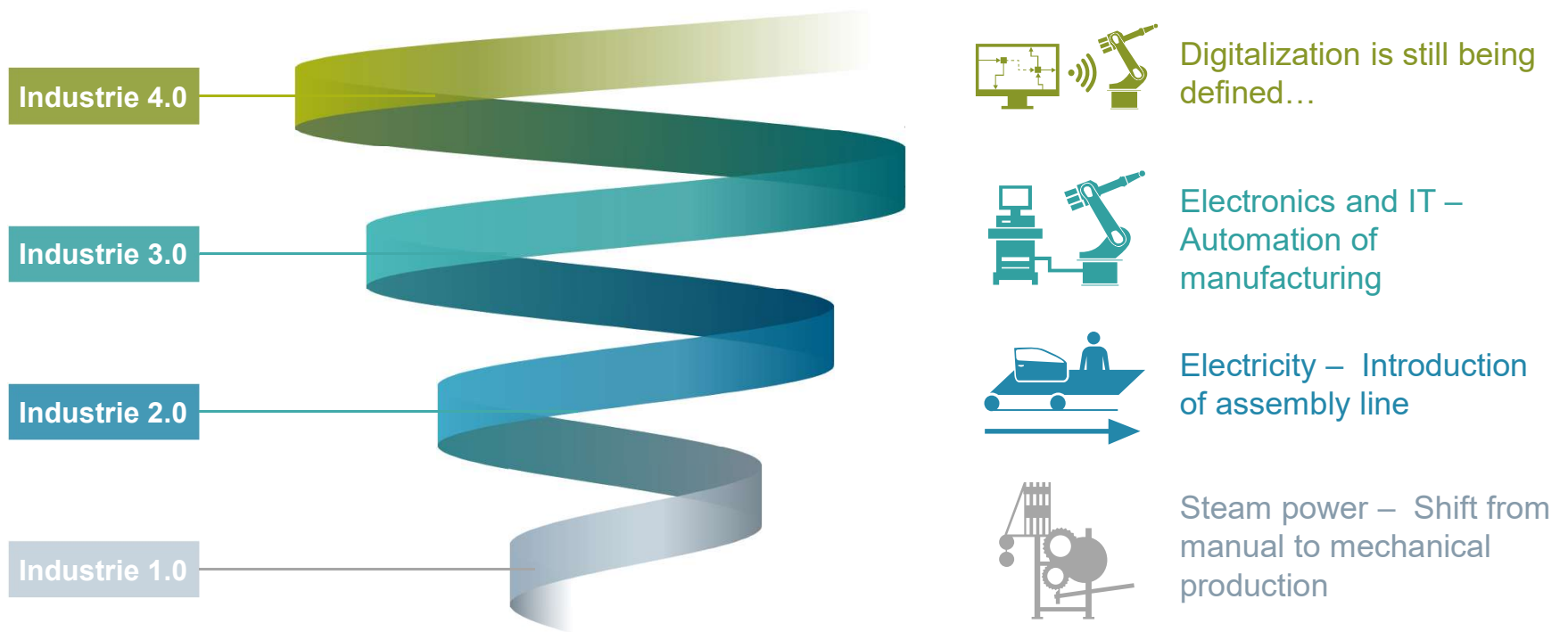
Platforms and integrator companies are key enablers to European Manufacturing innovation. It will support manufacturers' use of digital platforms integrators to create high-value manufacturing in value networks across Europe.

The background is a vibrant blue digital cityscape. It features a grid of glowing lines and numerous binary digits (0s and 1s) scattered throughout. In the foreground, there are stylized, translucent blue buildings and structures that resemble a futuristic city. The overall aesthetic is high-tech and digital.

Digitalization
changes
everything

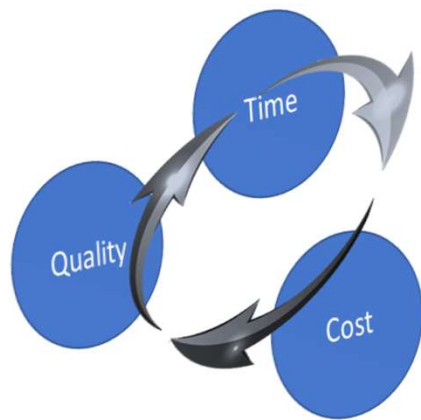
EIT Manufacturing

„Industrie 4.0“ the next level of Manufacturing



„Since the beginning, Europe shapes industrial revolutions

MANAGE “old” and “new” simultaneously



Operational Excellence Dimension

Still to be managed



Innovative Dimension

Crucial for survival

Increased change pace
Current structures obsolete

- Many companies purely focused on optimizing current system
- Transformation capabilities crucial for long term survival
- Increased number of people dedicated to transformation/innovation

EIT Manufacturing Example

Cross KIC Project:

Led by EIT Manufacturing

Partners:

EIT Digital – enabling digital technologies

EIT Food – use case food/nutrition
production

Goal:

Develop fully digitized test production lines
and teaching/learning factories for food
and nutrition production.

Transformation of successful, proven
innovations to other industrial domains.



Summary

The Cross-KIC EIT Manufacturing/EIT Digital/EIT Food project will support the transformation of the whole food value chain to become more...



... efficient



... personalized



... sustainable



... integrated



... transparent

EIT Manufacturing will transform the results - successful and proven innovations - to other industry domains and multiply the impact.

Towards the future...



From conventional industrial robotics
and manual intensive labor...

... to cognitive Human Robot Collaboration
with Smart Mechatronics and Digital Twin
Technologies.

Thank you



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