

Ibec Manufacturing Campaign



Sharon Higgins Director of Membership & Sectors Ibec



Ibec industry sectors: Influence and collaboration

Our **39 Trade Associations** lobby, educate and provide great knowledge sharing, networking and skills training to improve the overall competitiveness of our industries



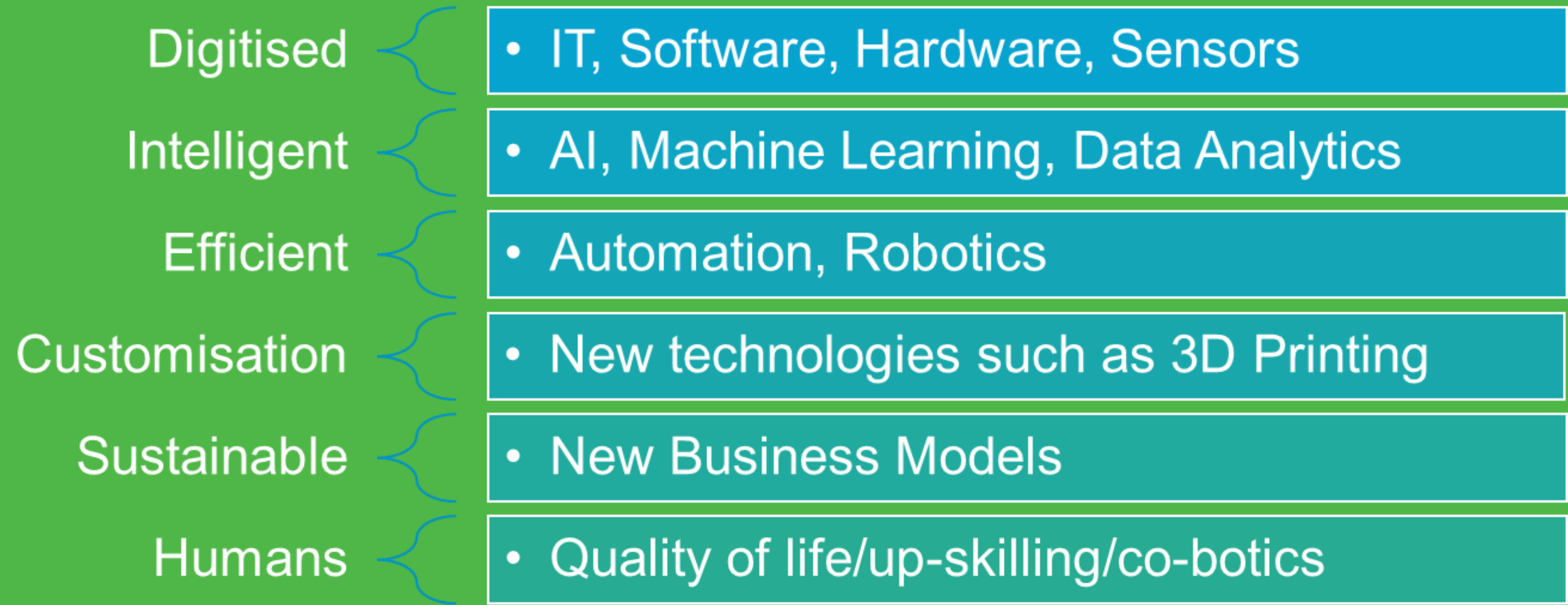
Smart Manufacturing Matters

- Smart manufacturing
a technology-driven approach that utilizes Internet-connected machinery to monitor and improve the production process

- EU Commission estimated that digitalisation of manufacturing could **add €110 billion** per year to Europe's industry base (DETE, 2019)



Manufacturing is constantly evolving Factory 5.0



Manufacturing in Ireland – Today, Tomorrow & Beyond

Campaign on Smart Manufacturing



Manufacturing – key component of Economic Success

260,000

260,000 people -
12% of total employment

€12.5 billion

€12.5 billion in wages and
employment taxes annually

150,000

Irish manufacturers employ
150,000 people abroad; 60,000
in the US and 25,000 in the UK.

€1.7 billion

€1.7 billion of tangible
investment

27%

27%, or over €3 billion,
of corporation tax

€19 billion

€19 billion spent each year
on goods and services from
suppliers in the Irish economy

80%

Irish owned manufacturing
exporters grew sales by over
80% between 2010 and 2019.

44%

Inward FDI manufacturers
grew their exports by 44%
in the same period.



Our manufacturing: Smart, Diverse, Global



No. 2
exporter of medical
devices in Europe



No. 1
exporter of contact
lenses in Europe



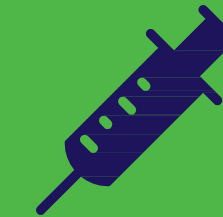
No. 2
exporter of orthopaedic
products in Europe



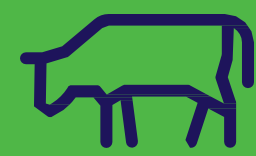
No. 2
exporter of complex
pharmaceutical goods
and medicines in Europe



No. 1
exporter of antisera
and immunological
products in Europe



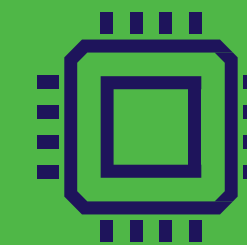
No. 2
exporter of vaccines
in Europe



No. 1
net exporter of dairy
ingredients, beef, lamb
and spirits in Europe



No. 1
exporter in Europe
of specialised
nutrition products



No. 5
exporter of data
processing machines.

October 2021, we sought the views of our manufacturing members And over the next 6 months they expect:

Significant cost increases

95%

Over nine out of ten respondents expect increases in cost of transport (95%) and cost of raw materials (93%).

Increases in sales and productivity

60%

60% expect export sales to increase

48%

Almost half (48%) expect productivity to increase

33%

33% expect profitability to increase but a further 34% expect it to decrease

That they will invest

59%

Three out of five (59%) expect investment in environmental sustainability to increase.

53%

Half (53%) expect to increase capital investment

51%
Half (51%) expect to increase investment in digitization / smart manufacturing

44%

44% expect to increase employee numbers

Manufacturing in Ireland

2030 Targets Where do we have to get to on digital?

IE Digital Performance against (a) EU27 (b) EU Frontrunners & (c) 2030 EU/NDS Digital Targets							
Digital Capacities EU Digital Compass (in Bold) & DESI	% Current Level (DESI, 2021)					% EU Digital Decade Targets	
	IE	EU27	Variance	#1 in EU	Variance	EU 2030	Variance
A. Skills							
Basic Digital Skills attainment	53	56	-5%	79	-49%	80	-50%
ICT Specialists*	6	4	25%	8	-33%	N/A	N/A
B. Digital Transformation of Business							
Cloud Computing adoption	41	26	38%	62	-51%	75	-82%
Big Data adoption	23	14	37%	31	-35%	75	-231%
AI technologies adoption*	14	25	-75%	40	-182%	75	-431%
SMEs with at least a Basic Digital Intensity	66	60	9%	88	-34%	90	-36%
C. Digital Infrastructure							
Gigabit network (Fixed VHCN)	83	59	29%	100	-20%	100	-20%
5 G Coverage	30	14	54%	80	-163%	100	-228%

Smart manufacturing: How to get there?

Lead:

Take a 'whole of government' approach and intensify engagement with industry in the delivery of policies, plans and resources to support our manufacturing in further digital transformation

Trust:

Intensify investment in developing our national cybersecurity ecosystem, partnerships and capacities to safeguard trust in further digital transformation

Enable and Include:

Engage and deepen Capacities industry and individuals to adopt and succeed with digital tools and data in manufacturing (Infrastructure, Innovation, Skills)

Smart manufacturing: How we are helping?

1. Ibec Campaigns – Manufacturing in Ireland

2. Platform for business:

- Cross-sectoral and cross-functional engagement & networking
- Knowledge sharing and information briefings
- Skillnets
- Shape EU and National policy on digital adoption and infrastructure

3. Platform to advise Government on the implementation of national digital and AI strategies and delivery of digital infrastructure

- *Enterprise Digital Advisory Forum (EDAF)*
- *Mobile Phone & Broadband Taskforce*

Talent to drive next generation manufacturing

Masters of Engineering in Digitisation of Manufacturing

- Database Design & Data Visualisation
- Cyber-Physical Systems & IoT
- Manufacturing Automation & Robotics
- Data Analytics & Machine Learning
- Integrated Database Systems
- Digitalisation of Production

<https://irishmedtechskillnet.ie/>

Manufacturing Engineering Apprenticeship (Consortia led)

- 100 companies engaged across 5 Universities, 300 students enrolled.

<https://www.ibec.ie/connect-and-learn/industries/construction-property-and-engineering/Manufacturing-Engineering-Apprenticeships>



Manufacturing in
Ireland



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