



European
Commission



 #DigitiseEU

The I4MS initiative

Setting the Scene





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

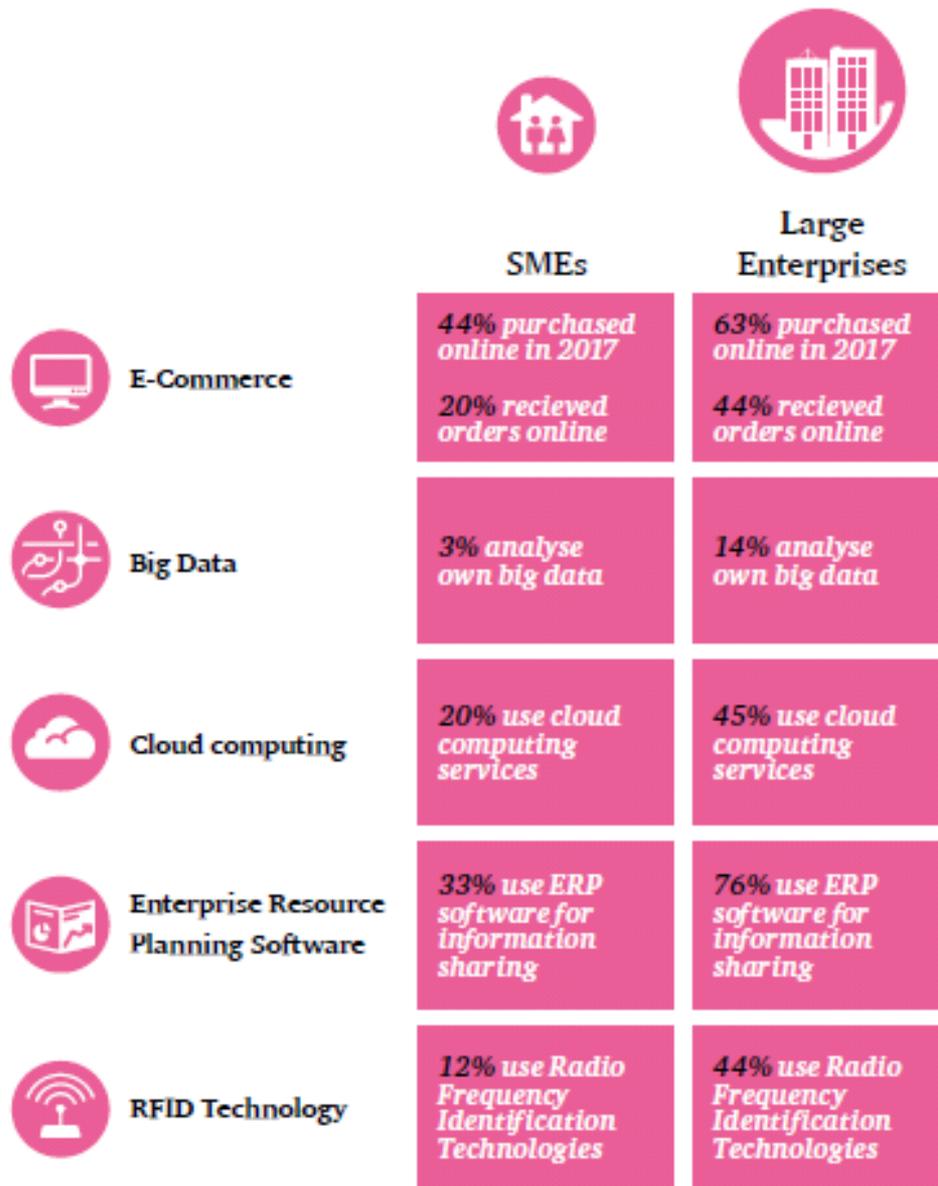


Update on "Artificial Intelligence for Europe"

Coordinated action plan with Member States:
Adopted on 7 December 2018



Three years on... Sense of urgency



Over the years following the birth of the iPhone in 2007, the EU has become a digital laggard... The main challenge in the EU in the coming years remains the transformation of its “traditional industries”, as the “platformisation” of the economy is restructuring value chains.

Source: The European answer to the digital revolution (Jacques Delors Institute, September 2018)

Source: PwC Europe Monitor - Innovation and Digital Transformation: How do European SMEs perform? (October 2018)

<http://s3platform.jrc.ec.europa.eu/digital-innovation-hubs-tool>

- €500 million EU funding for DIHs (2016-2020)
- A pan-European network of over 240 operational Digital Innovation Hubs

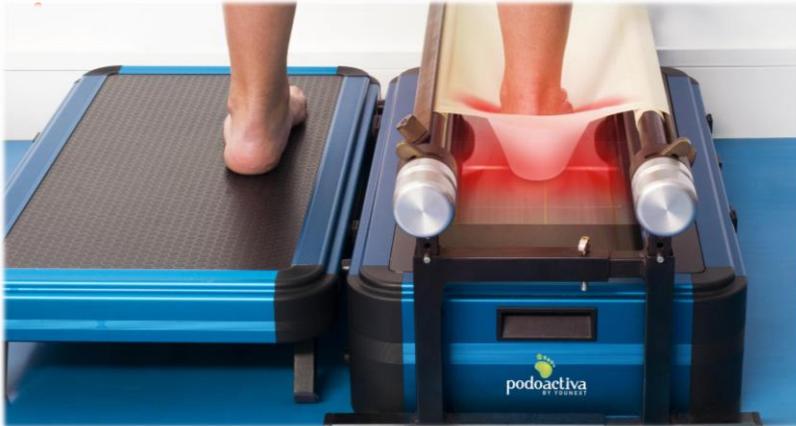


- 500 Start-ups, SMEs and mid-caps tested digital innovations in collaboration with more than 150 DIHs in 370 innovation experiments
- 13 EU countries included DIHs in national digitalisation strategies



- Completed coaching 34 potential Digital Innovation Hubs in the EU13 and starting to coach another 30 DIHs in regions with slower adoption of digital technologies

CloudSME– Podoactiva



3D Scanner to design customised shoe insoles

2 Spanish SMEs teamed up and got help from a Digital Innovation Hub to design a scanner that processes data on HPC resources via the cloud, with no need for specialised knowledge or software licences

Consortium

Supply

- INGECON (ES)

End-users

- Base Protection (IT)
- Podoactiva (ES)

Research -DIH

- BIFI (ES)

- This innovative solution also helped an Italian company, Base Protection, which tripled its turnover within 3 years
- For customers, it provides faster availability and lower cost

FORTISSIMO- simulation for hypercars



Consortium

- | Supply | End-users | Research |
|----------------|-------------------|------------------------------|
| • ICONCFD – UK | • KOENIGSEGG – SE | • CINECA – IT
• EPCC - UK |

Aerodynamics simulation made affordable

Cloud-based pay-per-use HPC simulations helped the Swedish SME Koenigsegg to develop their sports car One:1 without incurring in high costs and without the need of having costly in-house HPC resources

Impact for the SME

- 30% saving in design costs plus 50% reduction in physical testing
- Development savings of €90K per year
- 30% decrease in time to market

EuroCPS – Encore Lab



Sustainable agriculture powered by smart technologies

The Spanish SME Encore Lab, with the help of the Digital Innovation Hub CEA Leti, developed a low cost device that monitors the crops directly on the field through sensors. Information on different parameters can be accessed it by the farmer on the cloud.

Impact

- 35% reduction in use of pesticides
- 50% reduction in water consumption
- This technology has been successfully integrated in Cesens, Encore Lab's flagship product. They expect to increase sales in 10,000 units within five years, boosting revenues and doubling its staff to 20 people.

Consortium

End-users	Supply	Research
• Encore Lab (ES)	• ST Microelectronics (FR)	• CEA Leti (FR)

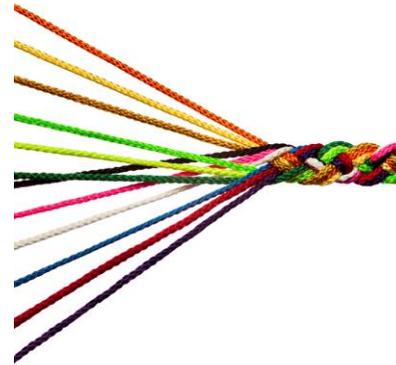
Upcoming open calls under I4MS & SAE projects using "cascade funding"

H2020

Quarter-Month (opens)	EU Initiative	Project	Technology Area
2019			
Q2- April (4 th cut-off)	SAE	SmarTEES	Organic and large area electronics
Q2- May	I4MS	MIDIH	CPS/IoT for Manufacturing
Q2	I4MS	AMABLE	Additive Manufacturing
Q2- July	I4MS	CloudiFacturing	HPC cloud-based simulation services
Q3- August	SAE	TETRAMAX • Entrepreneurial	Low energy computing powering CPS and IoT
Q3- September	I4MS	L4MS	Logistics for Manufacturing (Robotics)
Q3- September	SAE	TETRAMAX • Bilateral	Low energy computing powering CPS and IoT
Q3- September (5 th cut-off)	SAE	SmarTEES	Organic and large area electronics
Q4- October	SAE	TETRAMAX • Value chain/ interdisciplinary	Low energy computing powering CPS and IoT

European projects

Technology solutions
Re-usable tools &
services
Innovation
Experiments



SMEs' digital transformation



Regional support
for re-use



Regional support
to incentivise SMEs