

Digital Innovation Hub in Catalonia using the Smart Specialisation Platform for Industrial Modernisation

Working Group 1

*Digital Innovation Hubs: mainstreaming digital innovation across
all sectors*

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WHO ARE WE?

i2CAT Foundation is a nonprofit research center that promotes R&D in the fields of architecture, applications and services based in **Advanced Internet**

BOARD OF TRUSTEES



RECOGNITION WITHIN THE CATALAN RESEARCH&INNOVATION ENVIRONMENT

RECOGNITION WITHIN EUROPEAN RESEARCH&INNOVATION ENVIRONMENT

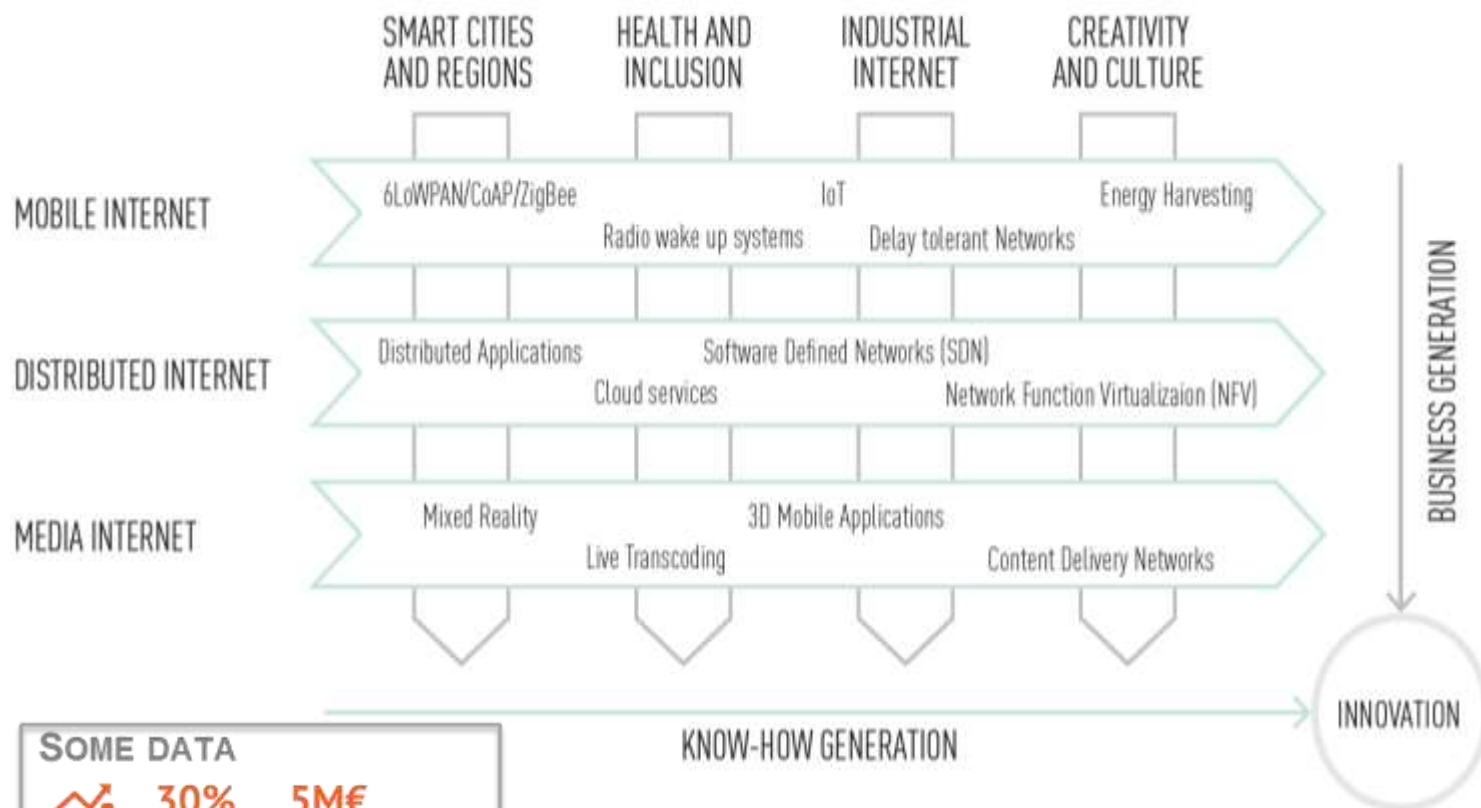
PARTAKERS IN MAIN TECHNOLOGICAL FAIRS AROUND CATALONIA



17/2008/2009/2010/2011



RESEARCH AND INNOVATION MODEL



SOME DATA

30% CREIXEMENT 2016

5M€ PRESSUPOST 2017

15% CORE FUNDING

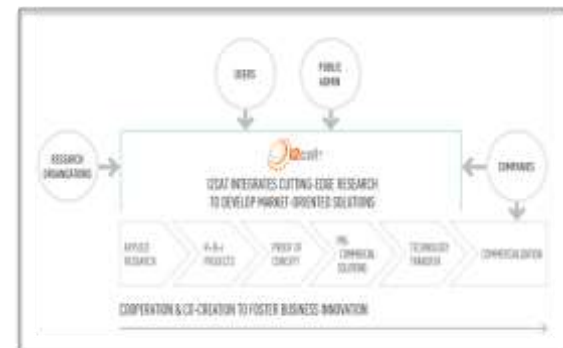
50% EUROPEAN COMPETITIVE FUNDING

65

28 EUROPEAN PROJECTS IN PROCESS

20 NATIONAL PROJECTS IN PROCESS

3 SPIN-OFFS



Catalonia's Industry 4.0 enablers:



CATALONIA, THE PERFECT MERGE

GLOBAL BUSINESS

- AMAZON
- HEWLETT PACKARD
- NISSAN
- SEAT

LEADING AND SCIENTIFIC TECHNOLOGICAL INFRASTRUCTURES

- BCN SUPERCOMPUTING CENTRE
- RING 4.0
- BCN SYNCHROTON PARK



THE BEST SOUTHERN EUROPEAN REGION TO INVEST IN
FINANCIAL TIMES

© EBCat, el Regió de Catalunya
 Barçeló 2016

GLOBAL & SMART TECHNOLOGY BASE

- MOBILE WORLD CONGRESS
- SMART CITY EXPO
- INTERNET OF THINGS
- IN(3D)USTRY

STRONG ACADEMY

- U. AUTONOMA DE BARCELONA
- U. DE BARCELONA
- U. POMPEU FABRA
- U. PÒLITECNICA
- BCN BIOMEDICAL RESEARCH PARK
- IESE
- ESADE

Catalonia's Industry 4.0 enablers: Industry and powerful ICT sector



SOME KEY FIGURES



THE BEST SOUTHERN EUROPEAN REGION TO INVEST
 INCATALUNYA CONSOLIDATES A 56% OF THE FOREIGN INVESTMENT IN R+D A PROJECTS EXECUTED IN SPAIN DURING 2010- 2015
 FDI MARKETS

20%
 INDUSTRY
 GDP

14B€
 ICT

> 6.400
 FOREIGN
 COMPANIES

4 STARTUP
 EUROPEAN
 CAPITAL

> 180
 R+D
 CENTERS

1,47%
 R+D GDP

Strategic projects:

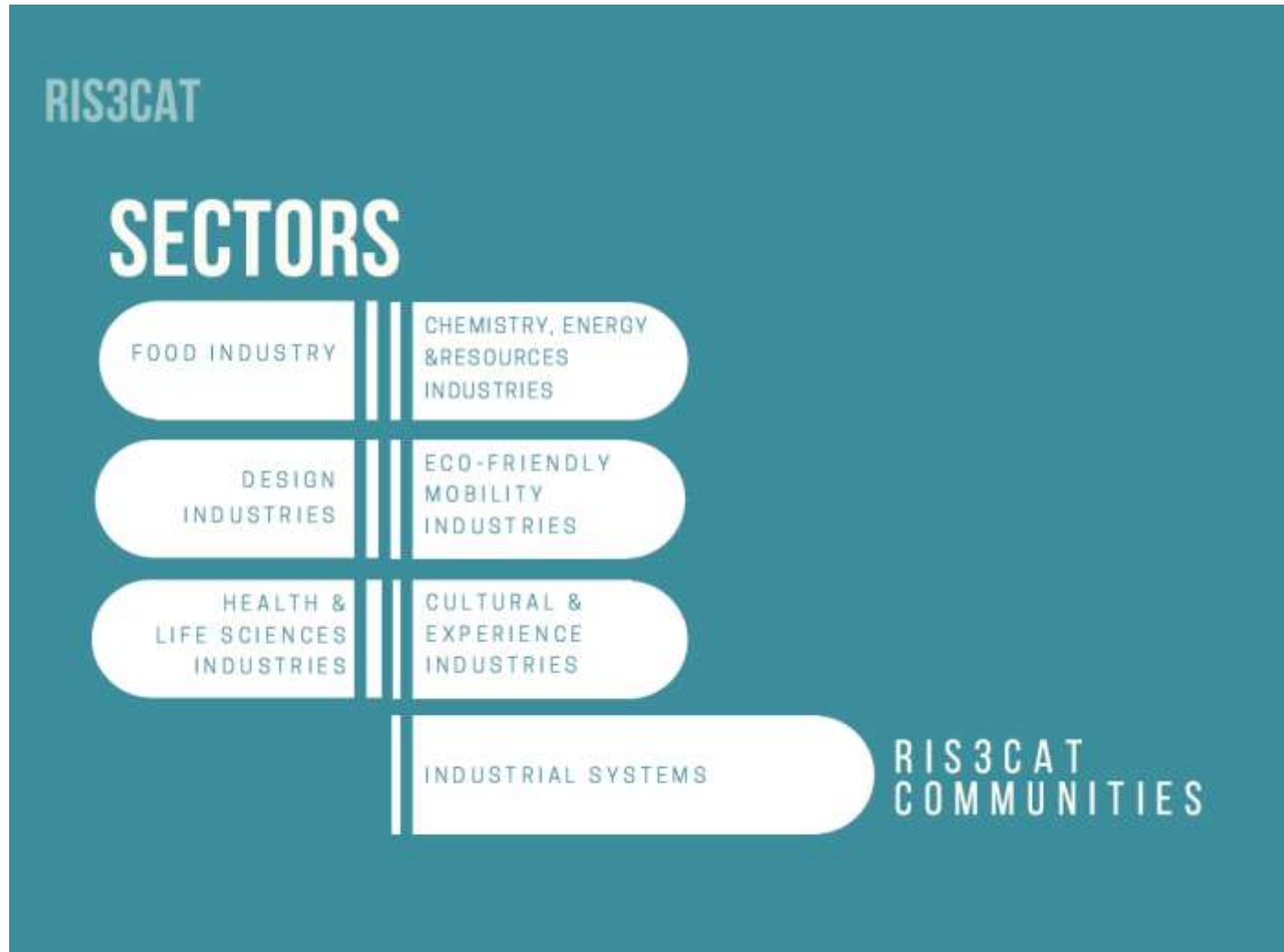


PROJECTS

RIS3CAT
RING 4.0
HUB 3D



RIS3CAT communities around strategic industrial sectors



Catalan region flagship projects towards Industry4.0



INNOVATION
ECOSYSTEM
INDUSTRY 4.0



DIGITAL
SERVICES
MARKETPLACE



HPC DIGITAL
INNOVATION
HUB



The Industrial Ring provides a private network that **interconnects** its members and also has the objective to help its members undertake **Industry 4.0** initiatives through **Platform PI4.0**

Core Members



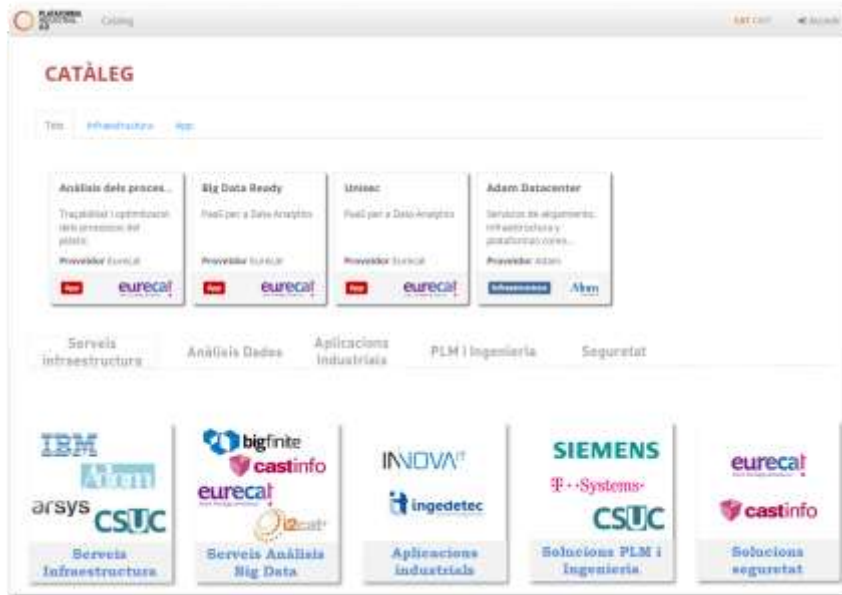
54 MEMBERS:

**35 COMPANIES,
14 RESEARCH CENTERS
5 CONNECTED SPACES**





Platform Industry 4.0 is a cloud infrastructure for the industry it is developed by regional technological centres (EURECAT & i2CAT) and industrial network with the support of Catalonia regional government.

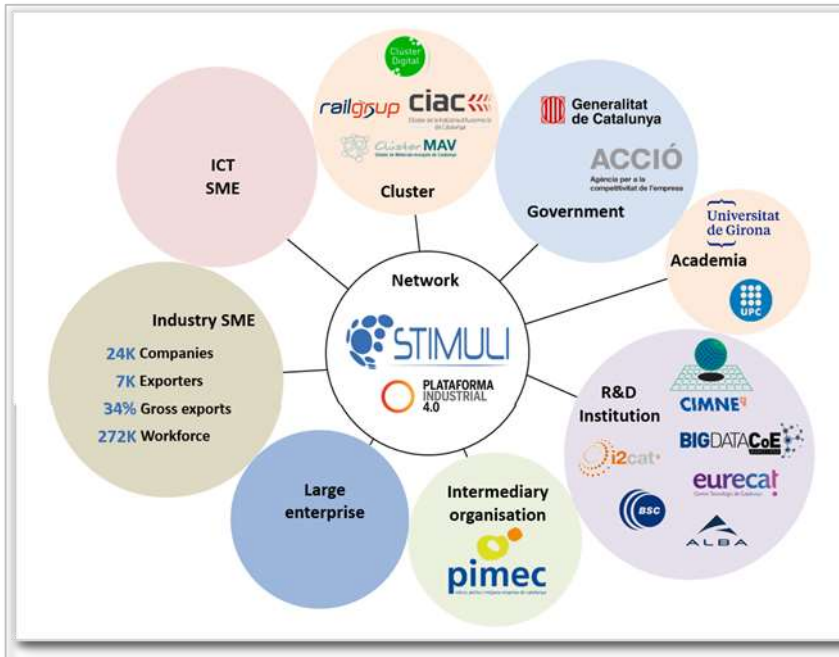


More information about the Cloud Platform in <http://plataformai40.com/>

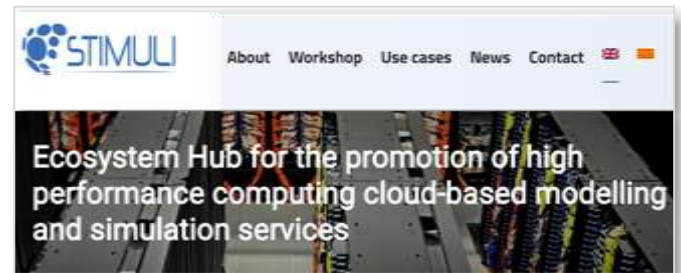




In Catalonia there is a need of a regional figure to centralise and facilitate the use of HPC cloud-based simulation & modelling services among the manufacturing industry in order to boost the Catalan manufacturing competitiveness and focus towards the Industry 4.0.



More information <http://www.stimuli.cat/>





Stakeholders:



Benefits:

- Increase of the SME's and midcaps revenues
- Boost the demand of TIC & specially HPC services in Industry
- Creation of high qualified occupation
- Reduction of energy consumption
- Creation of new products and services to improve competitiveness
- Generation of new startups and business models
- New international opportunities
- Participation in international technological programs, platforms and initiatives



Generate
economic
activity and
occupation
of high value
added

**Strengthen and
revitalize the industry**

Development of new products and processes that need skilled and multidisciplinary workforce

**New business
environment**

Drive the industry to the use of advanced digital resources in order to generate new products and business models that strengthen the regional enterprises

**Attract and retain
talent**

Promote the specialization on advanced technological level techniques and attract international talent

**Attract new
investments**

Attract international and local investments to facilitate the SME's and the region development

**International
positioning**

Gain international recognition of the region as a reference on the use of HPC resources in Europe

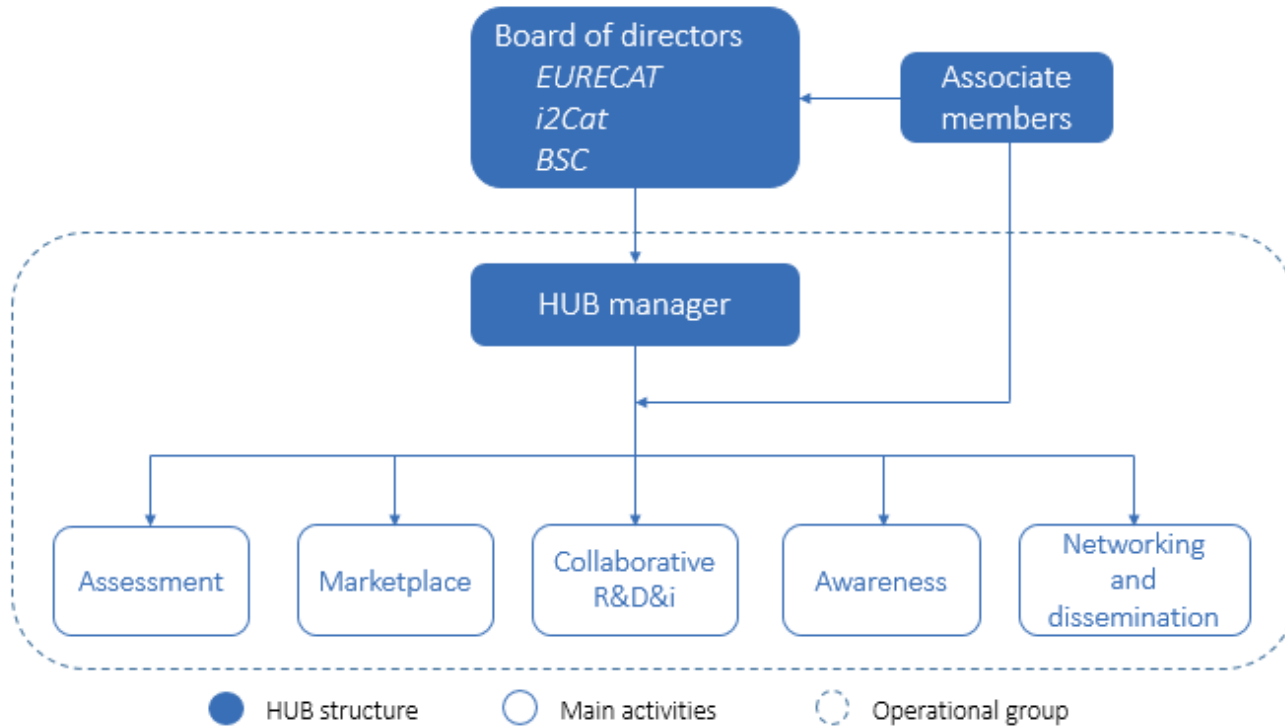


Fig 3. Organisational structure of STIULI HUB

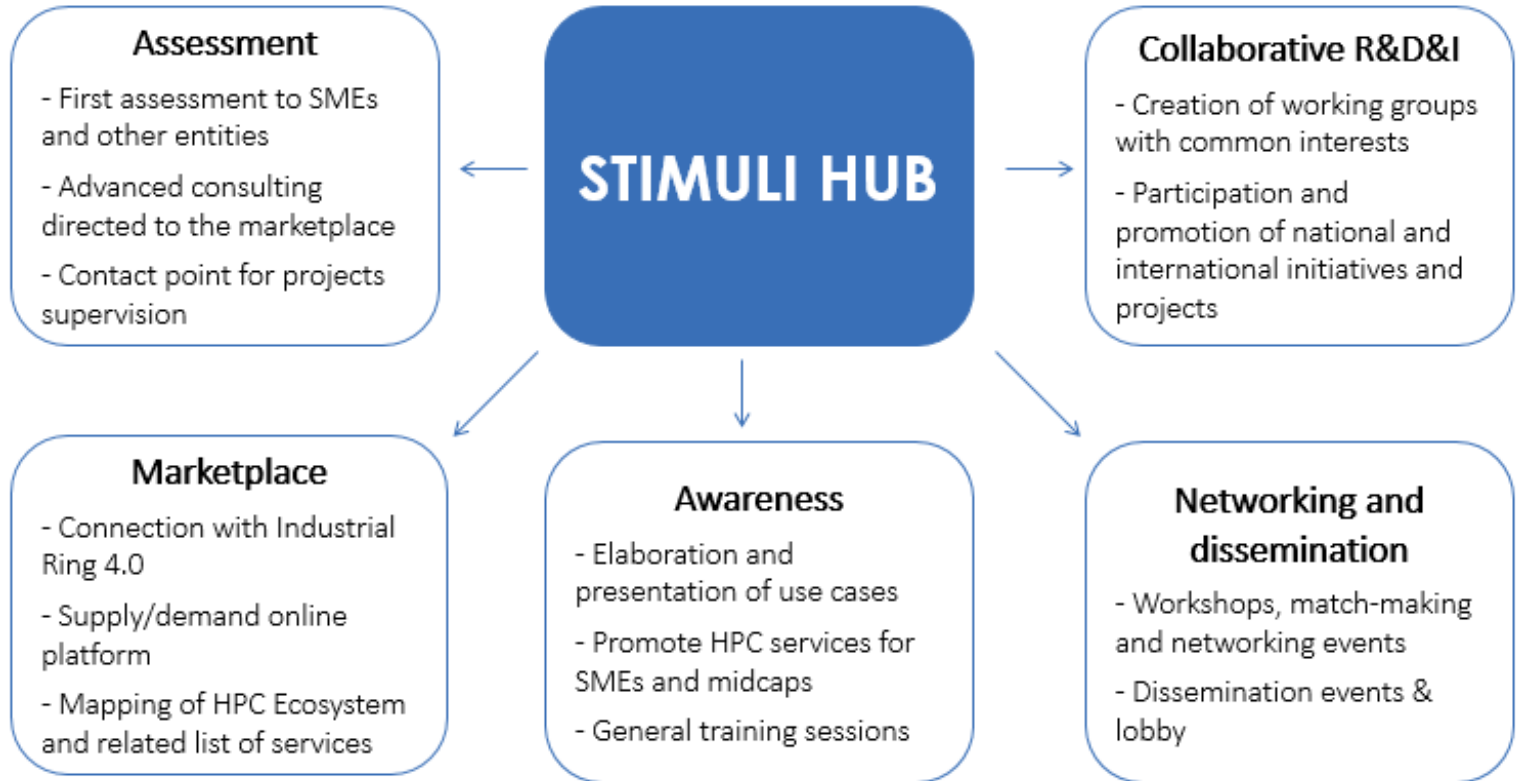


Fig 3. Organisational structure of STIMULI HUB



SMEs integration into Industry 4.0 & Digital Services towards Industry 4.0

We merge two initiatives around Industry 4.0 with the propose of:

- Focus on SMEs/MidCaps digitalisation activities;
- Awareness on digitalization initiatives in regions; mapping capacities and identifying weakness;
- Model to export to different regions to implementing policies to implement industry4.0
- Share with other regions some relatively expensive infrastructure.
- Align with H2020 funds



THANK YOU FOR YOUR PARTICIPATION

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