



LAUNCH OF THE EUROPEAN INITIATIVE SMART ANYTHING EVERYWHERE

Networks of Digital Innovation Hubs reaching out to Europe's Regions

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1. **Starting Point**
2. Next phases of SAE & I4MS
3. Organic growth of Europe-wide innovation ecosystems
4. Concrete example for potential combined Horizon 2020 – ESIF
5. Conclusions

Overview of European, National and Regional Digital Manufacturing Initiatives in Europe

EU-level Initiatives

- Application PPPs: FoF, SPIRE
- I4MS
- Smart Anything Everywhere
- ICT PPPs

Multi-region Initiatives

- Vanguard

United Kingdom

- High Value Manufacturing
- Innovate UK
- Action Plan for Manufacturing (Scotland)

Belgium

- Made Different
- Flanders Make/iMinds (Flanders)

France

- Usine du Futur
- FoF Ile-de-France

Portugal

Produtech

European initiatives are in **red**
National initiatives are in **blue**
Regional initiatives are in **green**

European Commission
DG CONNECT, Unit A3, ML

Sweden

Produktion 2030

Netherlands

Smart Industry

Finland

- FIMECC PPP Programmes (MANU, S-STEP, SIMP, S4Fleet)
- Industrial Internet Business Revolution
- IoT pilot Factory (IoT PFF)

Poland

- INNOMOTO
- INNOLOT
- Digital manufacturing for the SME (Mazovia)

Germany

- Industrie 4,0
- Smart Service World
- Autonomik fur Industrie 4.0
- It's OWL (Ostwestfalen-Lippe)
- Allianz Industrie 4.0 (Baden-Württemberg)

Austria

Produktion der Zukunft

Italy

- Fabbrica Intelligente
- Ass. Fabr. Intell. Lombardia

Spain

Estrategia Fabricacion Avanzada (Basque region)

Greece

Operational Programme in Region Western Greece

Workshop conclusions:

1) Increase emphasis on pan-European platform building

- Scale up efforts through collaboration across PPPs/JU/Focus Areas, LEIT/SCs, DSM, EU/MSs/regional efforts
- Industrial Workshop planned around summer

2) Use EU innovation initiatives to build the glue between regional and national activities

- Wide-spread adoption & best use of digital technologies in **all** industrial sectors
- Access to "digital musts": Simulation/design, sensing and control, automation, 3D printing, data analytics, seamless connectivity, ...

3) Providing the best framework conditions

- Filling the skills gap and preparing the workforce for change
- Liability for robots and autonomous systems, human in the loop
- Data ownership and exploitation, IPR protection, access to finance

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What's up in the next phases of SAE & I4MS ?

- ❑ Focus SAE and I4MS to provide glue between national and regional initiatives
 - Network and link to demo centres / competence centres / field labs / innovation hubs
 - Open demos to actors outside regions or member states
 - Focus experiments on cross-border value chain collaborations
- ❑ Use I4MS and SAE type of innovation actions to support the adoption of platforms
 - Focus the projects on broad adoption of EU-driven platforms
 - e.g. IoT platform, smart home platform, wearable platform, operating system and platform for autonomous systems, ...
- ❑ Mobilise other sources of funding to put the innovation ecosystems on broader footing
 - Juncker package (infrastructure, equity and loans)
 - Combine H2020 and ESIF funding

What's up in the next phases of SAE & I4MS ?

- Focus SAE on regional

- Network field
- Open
- Focus

- Use I4MS to adapt

- Use I4MS for sources of funding on broader footing

- Juncker package (infrastructure, equity and loan)
- Combine H2020 and ESIF funding

Main Goal:

An Innovation Hub in every region
Every SME in Europe has access to key ICT competences



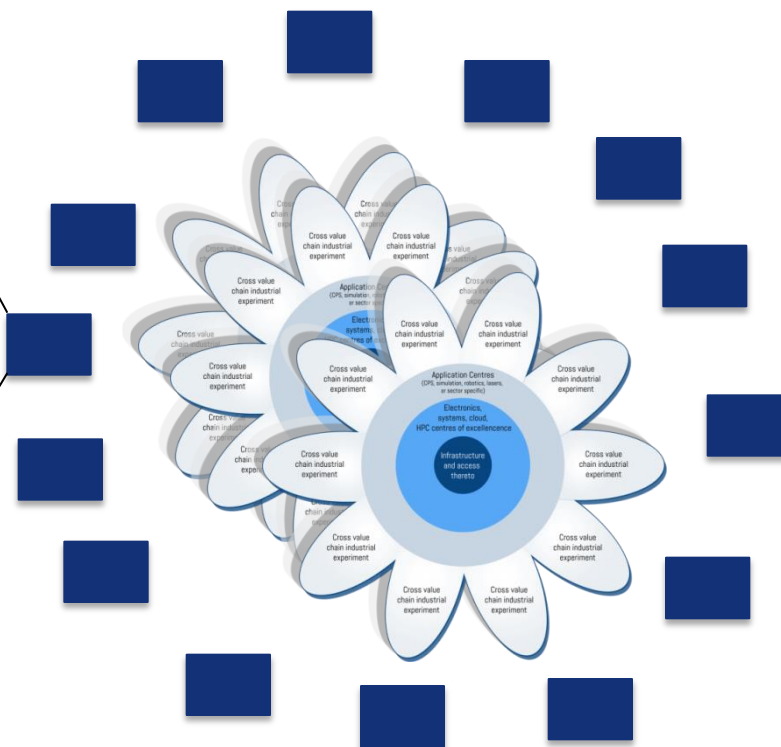
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Existing and emerging EU networks of competence centres **complemented by** Satellite Nodes/ Digital Innovation Hubs

Regional Satellite Nodes/Projects

- Feasibility studies
- Best practice experiments
- Local dissemination
- Skills development
- Infrastructure provisioning

- H2020 Funding augmented through
 - regional/structural funds, e.g. ESIF
 - Juncker package (EFIP)
- Focus on regional strengths/smart specialisation
- Flexibility/little synchronisation needs



+ access to finance
for SMEs and Mid-Caps

- ❑ H2020 – top-down approach: Funding applied for in Brussels
 - Apply for funding at EU-level - basis H2020 Work Programmes
 - Consortia include complex Pan EU networks of competence centres



- ❑ ESIF – bottom-up approach: Funding applied for locally
 - Concrete objective: Regions to dedicate investments to ICT, innovation, ..., following their smart specialisation strategy
 - Apply for funding in each region and with the relevant authority
 - Prerequisite: There must be a hook in the operational plan of the region in terms of a high level keyword
 - 25% of regions in Europe identified ICT-KETs

- ❑ Combination of funds following some simple key principles:
 - No double funding / no substitution principles
 - Structure individual projects/funding under a master plan

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Split of Work under a Model Master Plan

Focus on Excellence

Horizon 2020	ESIF
Small number of large projects/contracts	Significant number of digital innovation hubs/small contracts
Networks of Competence centres	 
Start-up funding for regional innovation hubs	Local smart specialisation competences
Innovative appl. experiments	Feasibility studies
EU-scale dissemination	Best practice experiments
Curricula, training programmes	Local dissemination
EU-wide infrastructure	Local infrastructure

Focus on Cohesion

Dynamic and organic growth:

- Not every start-up hub to results in an ESIF project
- ESIF funding not needed from the outset
- Customised timing of local projects and actions
- Only light synchronisation

1. Establishing links - setting the foundation

- Regional innovation hubs to **reach out** to I4MS/smart anything everywhere competence centres and vice versa.
- Regional actors to assure appropriate support in the individual regional operational plans for ESIF for the relevant domain (ICT, innovation, KETs, Manufacturing, ...).
- Other sources for regional or national contributions are welcome as well!

2. H2020 proposers for networks of competence centres in next Calls make small "start-up"-funding available to regional innovation hubs:

- For example within H2020 ICT Call 2 (ICT4, FoF9, ICT25) – not mandatory
- In future (WP20-16/17): combining financial resources of H2020 with regional/structural funds are to become an asset for H2020 proposals.

3. Need for a master plan for projects funded from different resources:

- Limit complexity / **start bottom-up EU-project-wide.**

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- ❑ Gain expertise with the SAE pilot projects
- ❑ Evaluate I4MS after 2 years (22 May 2015 I4MS event)
- ❑ Phase 2 of I4MS and SAE to start end of 2015, early 2016
FoF9 and ICT4 calls
- ❑ ~60M€ foreseen under WP2016/17 for SAE and I4MS
[tentative]
- ❑ 2015 onwards: build pilot cases for exploiting regional
dimension

THANK YOU

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Digital Agenda for Europe – Components and Systems:

<https://ec.europa.eu/digital-agenda/en/science-and-technology/components-systems>

DG CONNECT (Communications Networks, Content and Technology):

http://ec.europa.eu/dgs/connect/index_en.htm

Horizon 2020 on the web: http://ec.europa.eu/research/horizon2020/index_en.cfm

Structural Funds 2014-2020 and Smart Specialisation:

http://ec.europa.eu/regional_policy/index_en.cfm

Guidance for Enabling synergies between ESIF and H2020:

http://ec.europa.eu/regional_policy/sources/docgener/guides/synergy/synergies_en.pdf



European
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QUESTIONS ?



Smart Anything Everywhere Initiative



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