



ICT-04-2017: Smart anything Everywhere

Horizon 2020

LEIT ICT WP 2016-17

DG CONNECT - European Commission

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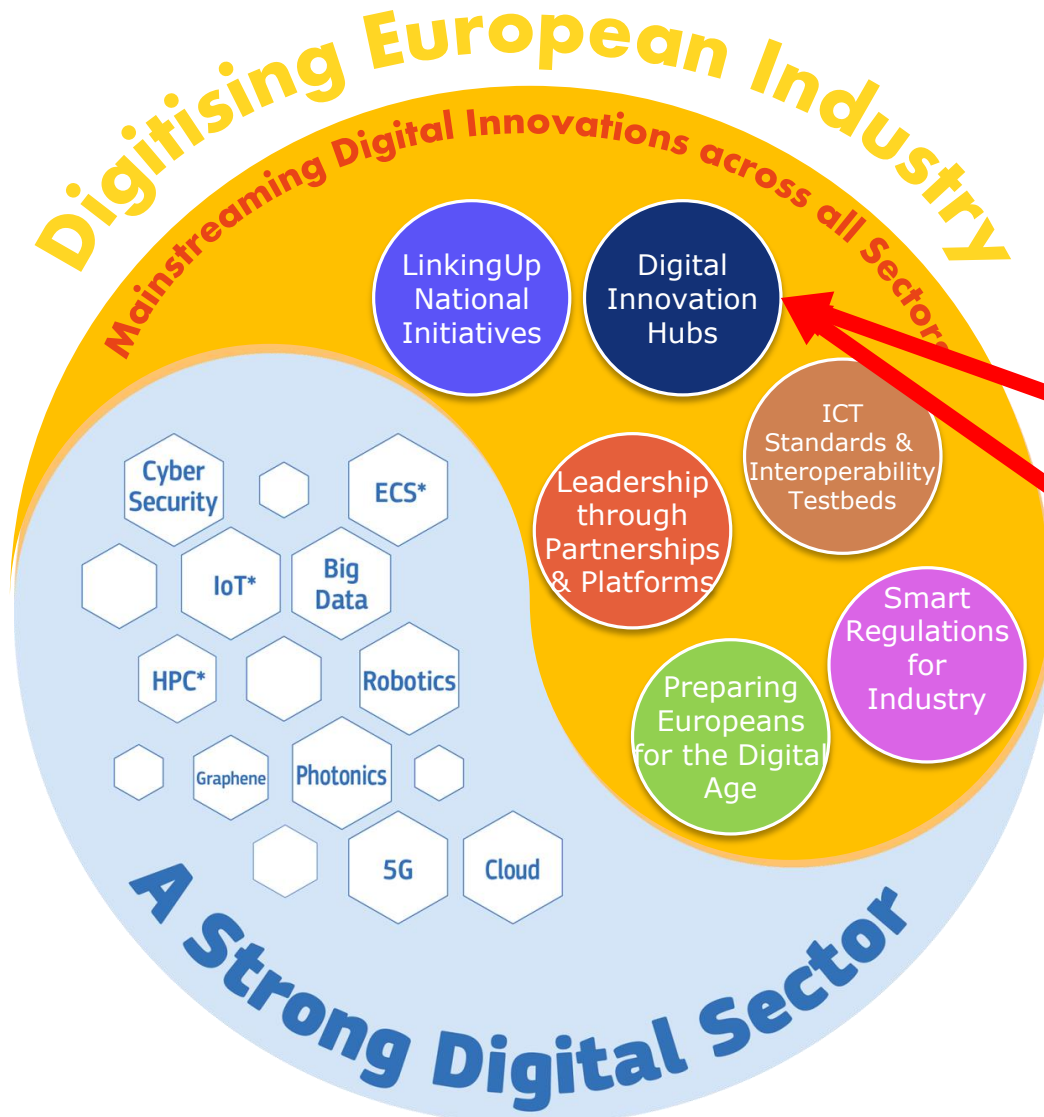
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Political context: Digitising European Industry

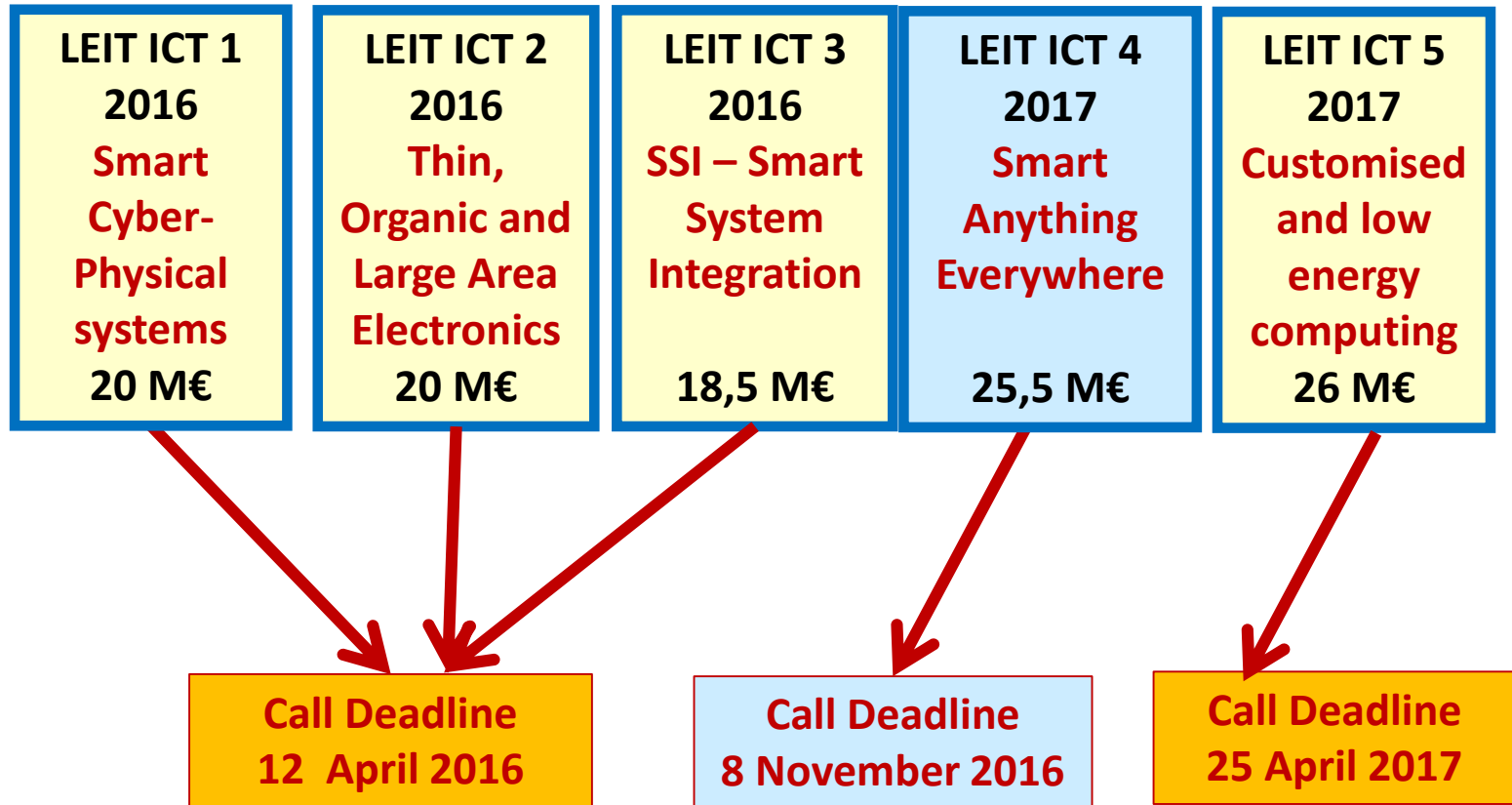


Commissioner Oettinger



ICT-4: Smart Anything Everywhere

FoF-12: ICT Innovation for Manufacturing SMEs



ICT 4 – 2017: Smart Anything Everywhere Initiative (SAE Initiative)



**Stimulate the development of the next wave of products
with digital technologies inside**

by European industry, **especially SMEs and mid-caps**

www.smartanythingeverywhere.eu



SmartAnythingEverywhere

SAE Initiative

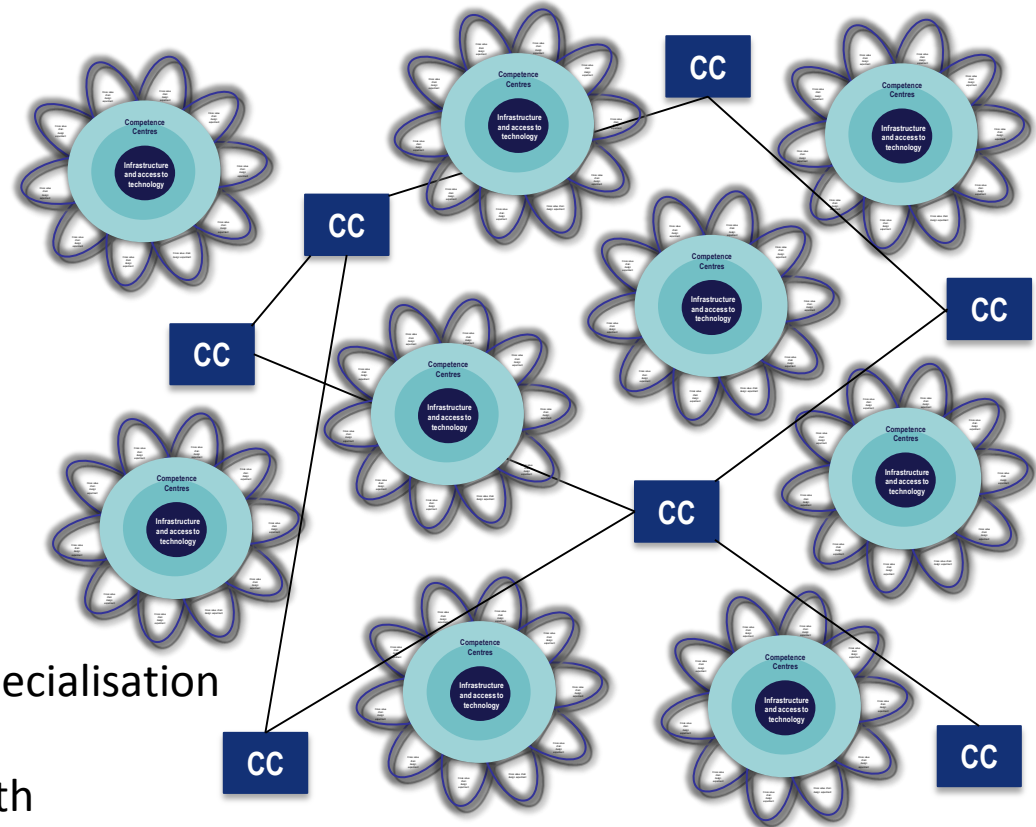
Network of competence centres



EU-wide network of Competence Centres
Acting as the heart of Digital Innovation Hubs

Competence Centres

- Access to technology
 - Service for developing products
 - Brokers between suppliers and users
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- Builds on regional strengths/smart specialisation
 - Flexible and scalable
 - H2020 funding can be augmented with
 - regional/structural funds, e.g. ESIF

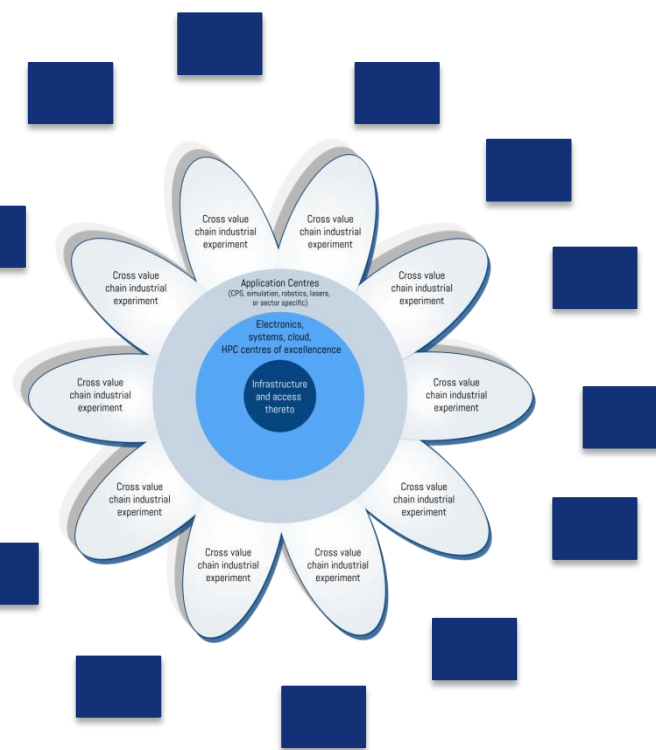


Dynamic and organic growth of Europe-wide innovation ecosystems

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

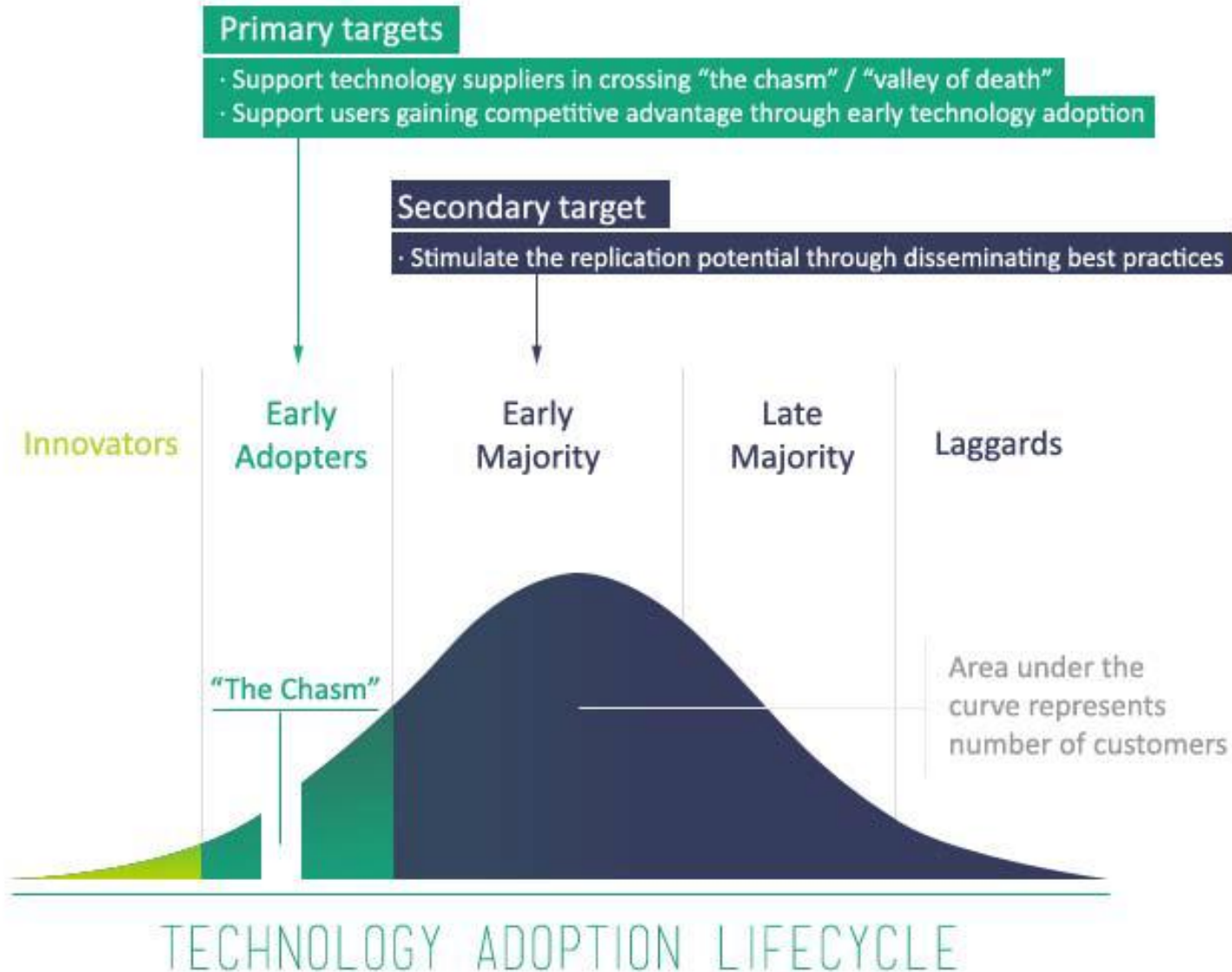
Regional Satellite Nodes/Projects

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

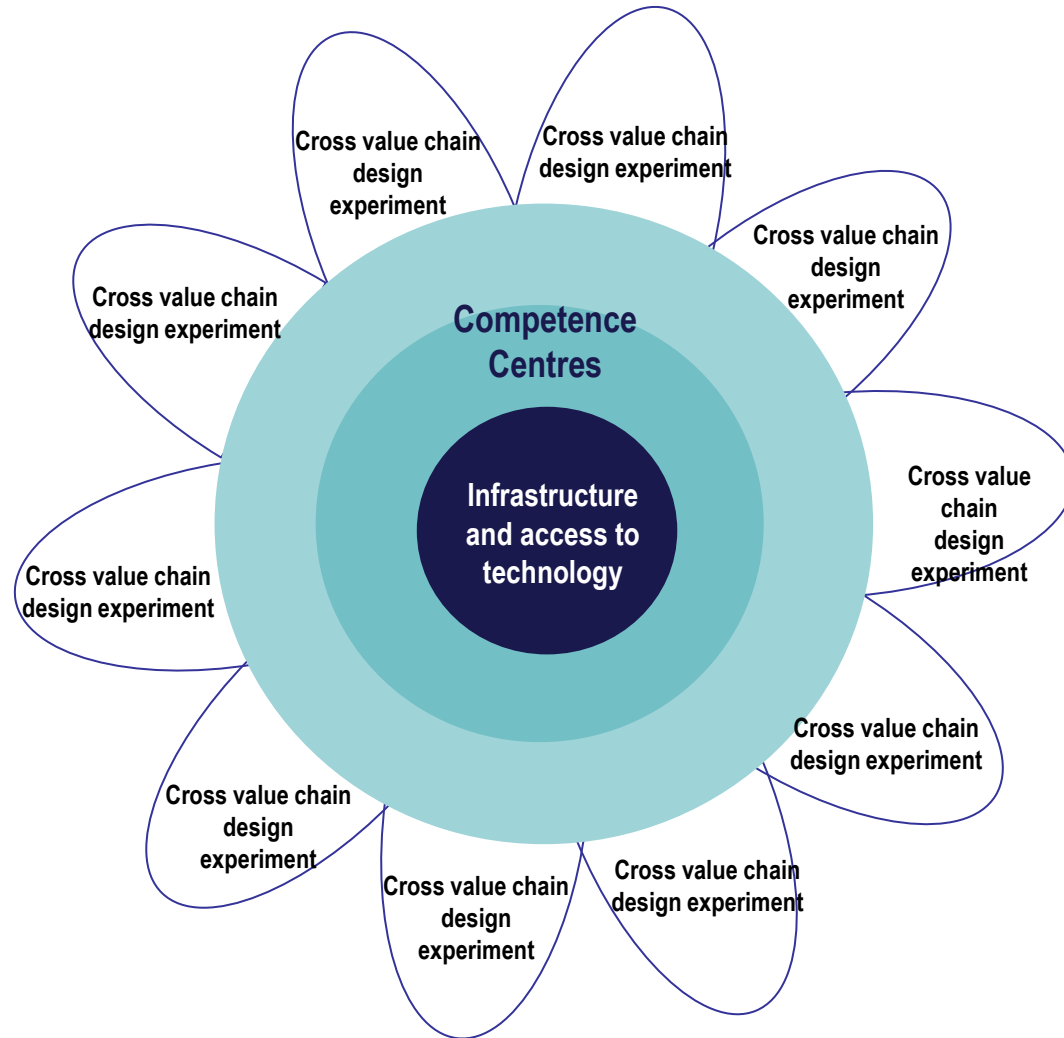


- Funded through regional/structural funds, e.g. ESIF
- Focus on regional strengths/smart specialisation
- Support actions complementary to H2020 actions
- Flexibility/little synchronisation needs

What types of SME's should be supported?



Critical Mass of Cross Border Application Experiments



Application experiments should be **driven by user requirements.**

Bring together actors along value chain.

Experts to **assist new users in customising and applying digital technologies** in their environment.

With the aim to:

Develop novel products or services with digital technologies.

Financial support to third parties may be used to be flexible on which experiments will be carried out

Open call: Part K of the General Annexes & Article 15 of MGA



Proposals shall clearly detail the objectives and results to be obtained from the financial support to third parties, and include at least:

- **A closed list of the different types of activities supported**
- **Persons or categories of persons supported**
- **Criteria for award of support**
- **How to calculate the exact amount of support (for instance 70% of total costs)**
- **Maximum amount of support for each party (typically 20-100K€ per party. If more than 60K€ is necessary, this needs to be explained in the proposal).**

Winners of the open call will become third parties, and not beneficiaries of the project!

ICT 4 – 2017: SAE Initiative Scope Innovation Actions



Proposals should address 3 aspects

1. Establish a **network of competence centres** offering **one-stop shops for companies** that want to experiment with digital technologies inside their products.
"Innovation hubs" offering facilities (access to technology platforms) and services for developing innovative products, such as design, manufacturing, rapid prototyping and life-cycle management.
2. Carrying out a critical mass of **cross-border experiments** bringing together key actors across the full value chain and **enable new users to develop novel products or services**.
3. Activities to achieve **long-term sustainability** of one-stop shop/market place services by competence centres and the eco-system.

ICT 4 – 2017: SAE Initiative Scope Innovation Actions



Experiment descriptions in proposals should include **an outline of the initial exploitation plan and business scenario**.

Proposals have an **outline business scenario** and **activities for the development of a business plan** for the competence centres and the marketplace.

Investors should be attracted to support business development of SMEs and mid-cap actors

Additional Issues:

- ➔ *Link to existing and emerging regional or national innovation hubs.*
- ➔ *Communication and dissemination activities shall make use of established networks reaching out to SMEs, such as Enterprise Europe Network, NCP network, ...*



ICT 4 – 2017: SAE Initiative

Area 1 Cyber physical systems and embedded systems



Goal is

- to help businesses from any sector uplift the quality and performance of their products and services with innovative embedded ICT components and systems
- To support eco-system building for promising platforms developed in earlier R&I projects.

**IA Projects (up to 7 M€
for area 1)
70% funding**

Goal is

- to help businesses who are developing products for situations where high computing capacity and low energy would be a competitive advantage
- To support eco-system building for promising platforms developed in earlier low power computing projects.

**IA Projects (up to 7 M€
for area 2)
70% funding**

Goal is

- to support electronic components, sensors, smart objects and system access to (including Europractice type of actions) advanced design and manufacturing for academia, research institutes and SMEs
- Rapid prototyping targeting SMEs

**IA Projects (up to 7 M€
for area 3)
70% funding**

Building ecosystem in Organic and Large Area Electronics (OLAE)

Goal is to help businesses in further maturing, innovating and validating their products with OLAE technologies

Focus is on

- 1. Access to design, technology and prototyping** which are mature and ready to use,
- 2. Application experiments driven by concrete user requirements and business cases**

**Projects (up to 3.5 M€
for area 4)
70% funding**

ICT 4 – 2017: SAE Initiative

CSA – Support action



Aim

CSA Projects (up to 1 M€)

- reinforce the collaboration between the actions supported under this initiative
- to increase the outreach of these actions and their impact
- to achieve a wider coverage of stakeholders in technological, application, innovation, and geographic terms.

Tasks and services

- a single innovation portal for newcomers; brokering between users and suppliers; dissemination
- leveraging investment by creating linkages with regional/national initiatives and by stimulating organic growth.
- sharing of best practices and experiences
- identifying new innovative ICT technologies that can benefit from this scheme

Address **all** of the following impact criteria **providing metrics to measure success** when appropriate.

- **Innovation in products, processes and business models leading to quantifiable increases** in market shares and/or productivity of European companies and/or industrial capacities in Europe, notably for SMEs and mid-caps operating in non tech sectors.
- **Business growth and increase competitiveness of digital technology suppliers**, in particular SMEs, able to supply components and systems that may be integrated in various products.
- Creation of a **self-sustainable ecosystem of innovation hubs** including ICT suppliers and users supported by services available through a one-stop shop, covering a large number of regions and their smart specialisation.

SAE in a nutshell



- ❑ 32 M€ of EU funding - 7 projects
- ❑ 93 competence centres
- ❑ 160 experiments
- ❑ 183 partners. Out of which 155 from industry
- ❑ 19 Members States and Ass. Countries

- Commissariat à l'énergie atomique et aux énergies alternatives (CEA)
- Laboratory for Analysis and Architecture of Systems (LAAS)
- Kalray
- Plastipolis
- Institut National de Recherche en Informatique et en Automatique (INRIA)
- CTuning Foundation
- Thales Research & Technology
- Yole développement

Smart Anything Everywhere Workshop: Enhancing digital transformation in European SMEs , Brussels, 13 June

<https://ec.europa.eu/digital-single-market/en/news/smart-anything-everywhere-workshop-enhancing-digital-transformation-european-smes>

Web sites:

www.smartanytingeverywhere.eu

<http://cordis.europa.eu/fp7/ict/components/>

The Participant Portal:

<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/5061-ict-04-2017.html>

Brochure Enhancing the Digital Transformation of the European Industry. The Smart Anything Everywhere Initiative"

http://ec.europa.eu/information_society/newsroom/image/document/2016-26/sae_brochure_-_june_2016_v10_16272.pdf

ICT Proposers' day in Bratislava



<https://ec.europa.eu/digital-single-market/en/ict-proposers-day-2016>