

A stylized graphic element consisting of several overlapping, curved, leaf-like shapes in a rainbow color palette (yellow, orange, red, green, blue) that sweep upwards and to the right, partially framing the text.

SmartEES

BRINGING FLEXIBLE ELECTRONICS PRODUCTS TO LIFE





1. **SmartEEs - At a glance**
2. **Context - Smart Anything Everywhere**
3. **Application - Flexible Electronics**
4. **Acceleration program - A full set of actions to accelerate Flexible Electronics integration**
5. **Value proposal - Technologies, packaged services, community, expected results & impacts**
6. **Application Experiments - Who, How, When to apply?**
7. **Contacts**



1. SmartEEs - At a glance



Support the European Industry in reinforcing its competitive advantage by accelerating the **integration of Flexible Electronics into novel products**

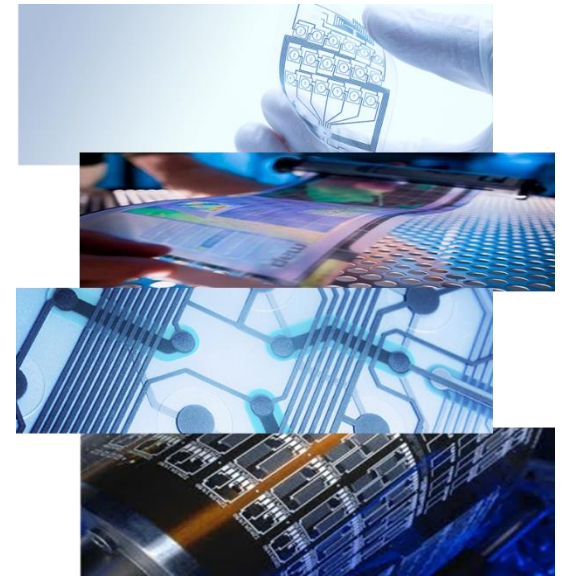
Innovation Action: Call: ICT- 04-2017

Number of partners: 10 partners (8 EU countries)

Grant: 4.5M€

Duration: 36 months

Expected results: 20 Application Experiments worth 2.8 M€ support (62% of the grant)



The SmartEEs project has received funding from the European Union's Horizon 2020 Research and Innovation program under Grant Agreement n° 761 496



2. Context - Smart Anything Everywhere



8 Digital Innovation Hubs sustaining the SAE initiative towards the digitization of the European Industry

Cluster Projects

ICT-04-2014



i EUROPCS

A network of design centres boosting and initiating synergies between SMEs, major CPS-platforms and competency providers to capture the emerging markets of IoT products. **30 experiments** initiated and led by SMEs.



i CPSELABS

CPS engineering infrastructure, knowledge and tools for realising novel CPS-based products and services. The CPSE Labs marketplace provides an open forum for sharing platforms, architectures and SW tools for the engineering of dependable and trustworthy CPS. **Focussed experiments** (3-6 partners) and fast-track (12-18 months) with innovation objective.



i GATEONE

Innovation service for European smartization by SMEs. 20% of bioelectronics technologies. **50 small scale experiments** to deliver innovation concept as demonstrators with SMEs engaged in testing phase.



i SMARTER-SI

Smart access to manufacturing for systems integration. To develop a RTO Community Foundry Model (CFM) that will accelerate a wider deployment of SSI with greater access to design, manufacturing capabilities for prototyping, early validation and first production for SMEs to exploit in niche markets (low volume high value). A test bed to realise **10 application experiments**

ICT-04-2017



CYBER-PHYSICAL AND EMBEDDED SYSTEMS



CUSTOMISED LOW ENERGY COMPUTING POWERING CPS AND IOT



ADVANCED MICRO-ELECTRONIC COMPONENTS AND SMART SYSTEM INTEGRATION



LARGE AREA ELECTRONICS





What are Digital Innovation Hubs (DIHs)?

DIHs are **ecosystems** that consist of SMEs, large industries, start-ups, research technology organizations, innovation & business developers, investors, industrial clusters & associations, representatives of regional/national funding agencies,...

DIHs help ensuring that every company, small or large, high-tech or not, can **grasp the digital opportunities**.

DIHs aim at creating the best conditions for **long-term business** success for all parties involved.












3. Application - Flexible Electronics



3. Application - Flexible Electronics



An estimated 62 billion euros market by 2027 (source OE-A)

<i>Automotive</i>		<i>Logistics</i>	
<i>Building & architecture</i>		<i>Medical & pharmaceutical</i>	
<i>Consumer electronics</i>		<i>Packaging</i>	
<i>Energy</i>		<i>Printing & graphic arts</i>	
<i>Lighting</i>		<i>Textile & fashion</i>	
		<i>Others</i>	

In comparison

- ***2017 global semiconductor market: 320 billion euros (source Statistica)***
- ***2017 Smart sensor market: 49 billion euros (source Markets and markets)***



4. Acceleration program

A full set of actions to accelerate Flexible Electronics integration



*An original European acceleration program
dedicated to **outreach and help innovative companies**
to access new markets and grow their business
in adopting flexible electronics in new products lines*

**20 funded projects (Application Experiments)
to be supported**

Up to 165k€ investment per project
Call for projects – 5 cut off dates



4. Acceleration program

A full set of actions to accelerate Flexible Electronics integration



For start-ups, SMEs and Mid-caps to:

Access Competencies

- Competencies in design and technologies integration
- Competencies in innovation management (business & funding)

Leverage up to 165 k€ investment

- Direct service (up to 80k€)
- Voucher financing (up to 60k€ *)
- Up to 25k€* of in-kind contribution
- Prepare next steps financing

* 70-30 % H2020 funding rules for Private Companies

Develop new product

- Bring new functionalities to your products
- Design a first prototype, scale-up study and sustainability
- Production agility: adapted for low to high volume markets

Open new market/business opportunities

- New value chain building
- Strengthen competitive positioning
- Explore new markets



5. Value proposal

Benefit from large portfolio of solutions to develop your product



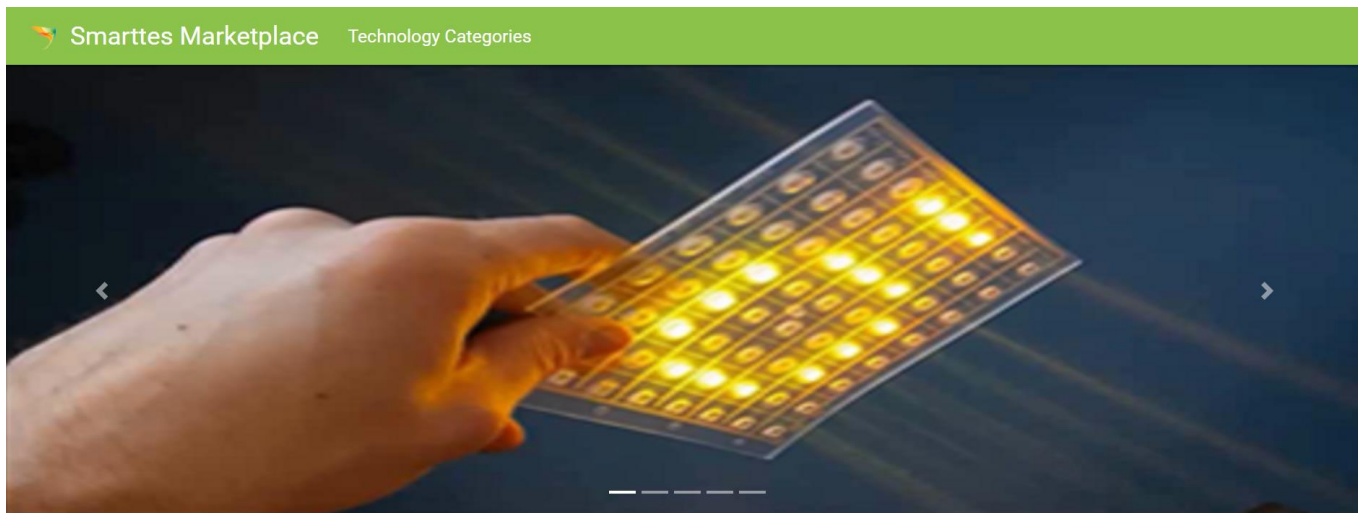
Access to more than 35 electronics flexible solutions to design your product:

Organic photovoltaics

Flexible displays

OLED Lighting

Electronics & components and Integrated Smart Systems



5. Value proposal

A full package from technology to business



A high **complementarity of technologies** integrating flexible electronics into printings, textiles, paper, plastronics, HMIs,...

All inclusive features for smart products & market entrance: from hardware to software and connectivity with bespoke business models and value chains.

Access to an **unique community** with **business connections** and **brokerage activities at European level.**



5. Value proposal - Access to a unique community



A unique and connected international electronics landscape



10 partners

+

SmartEEs community

- ✓ 2 Associations
- ✓ 34 Clusters
- ✓ 8 Investors
- ✓ 18 Industrial companies
- ✓ New entrants



5. Value proposal - Expected results and impacts














- ✓ ***New products*** and new ***business models***
- ✓ Market ***revenues increase*** for innovative companies & whole ecosystem
- ✓ Contribution of ***private investments***
- ✓ ***Enlarged community*** & ecosystem
- ✓ ***Sustainability*** of SmartEEs with continuity plan



6. Application Experiments - Who can apply



- **SMEs, start-ups and Midcaps**
- **Tech** (innovative companies) **or non tech** (traditional industries)
- **From all activities fields**

<i>Automotive</i>		<i>Logistics</i>	
<i>Building & architecture</i>		<i>Medical & pharmaceutical</i>	
<i>Consumer electronics</i>		<i>Packaging</i>	
<i>Energy</i>		<i>Printing & graphic arts</i>	
<i>Lighting</i>		<i>Textile & fashion</i>	
		<i>Others</i>	



6. Application Experiments - How to apply

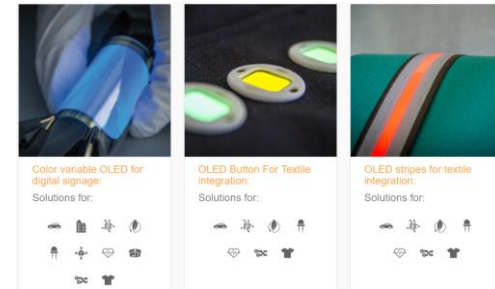


1. Check out the SmartEEs Showroom on the web platform www.smartees.eu

2. Discover & review more than 35 electronics flexible solutions to feed your product ideas

3. Download the Call documents

- Text of the Call
- Application Form
- Application Guidelines
- SmartEEs Financial Guidelines for Application Experiments
- Service Delivery Agreement (SDA)



4. Submit your project online through the application form

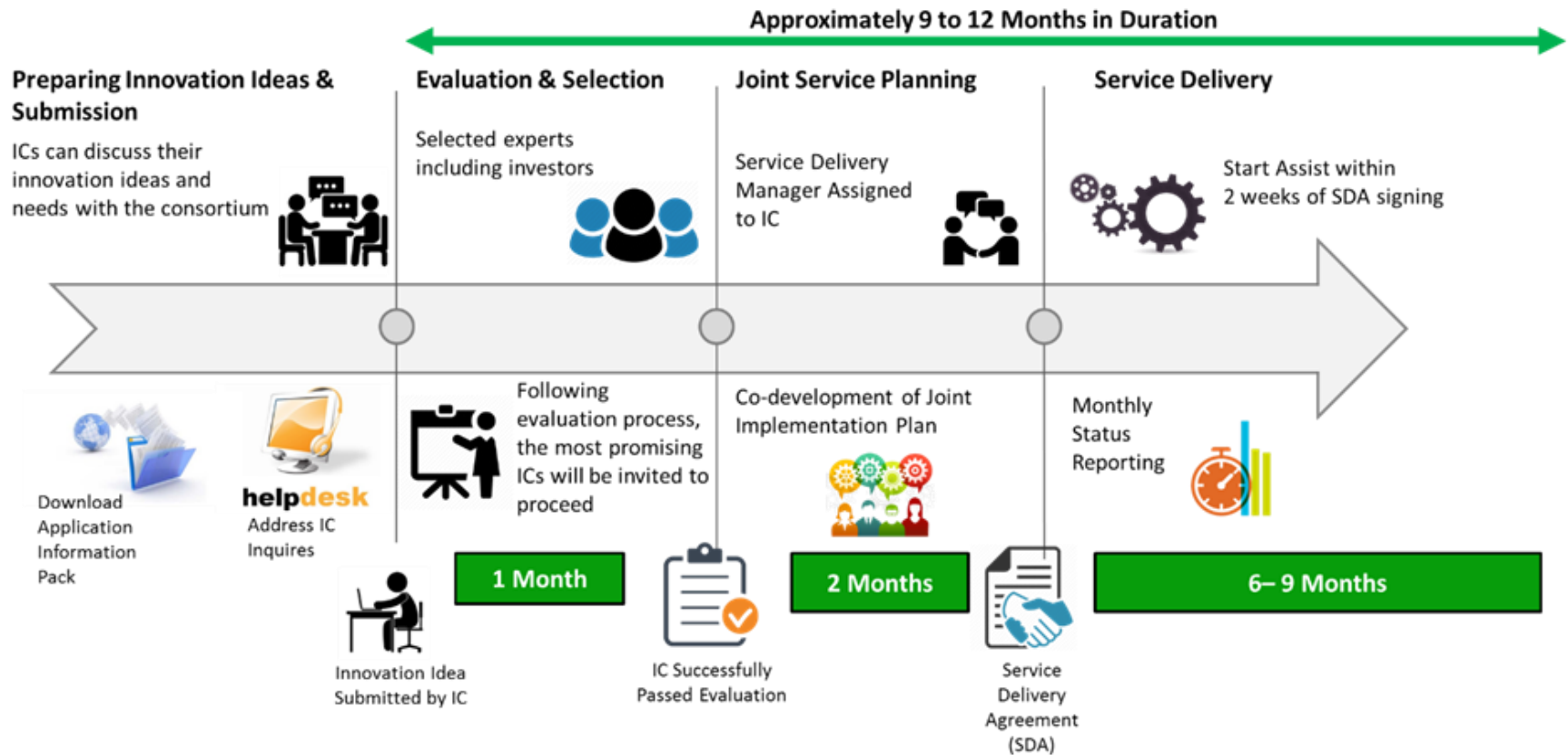
5. Contact the HelpDesk if any inquiries



6. Application Experiments - Process & service delivery



(IC = innovative company = third party beneficiary of SmartEEs)



6. Application Experiments - When to apply



Open call calendar

- **5 cut-off dates:**

<i>1st Cut-off</i>	<i>19th of March 2018</i>
<i>2nd Cut-off</i>	<i>20th of July 2018</i>
<i>3rd Cut-off</i>	<i>16th of November 2018</i>
<i>4th Cut-off</i>	<i>19th of April 2019</i>
<i>5th Cut-off</i>	<i>20th of September 2019</i>





- **www.smartees.eu**
 - **Linkedin : *SmartEEsEU***
 - **Twitter : *@SmartEEsEU***

- **SmartEEs project coordinator**
Jérôme GAVILLET: jerome.gavillet@cea.fr

- **SmartEEs project manager**
Minja MARIC: maric@amires.eu



THANK YOU

