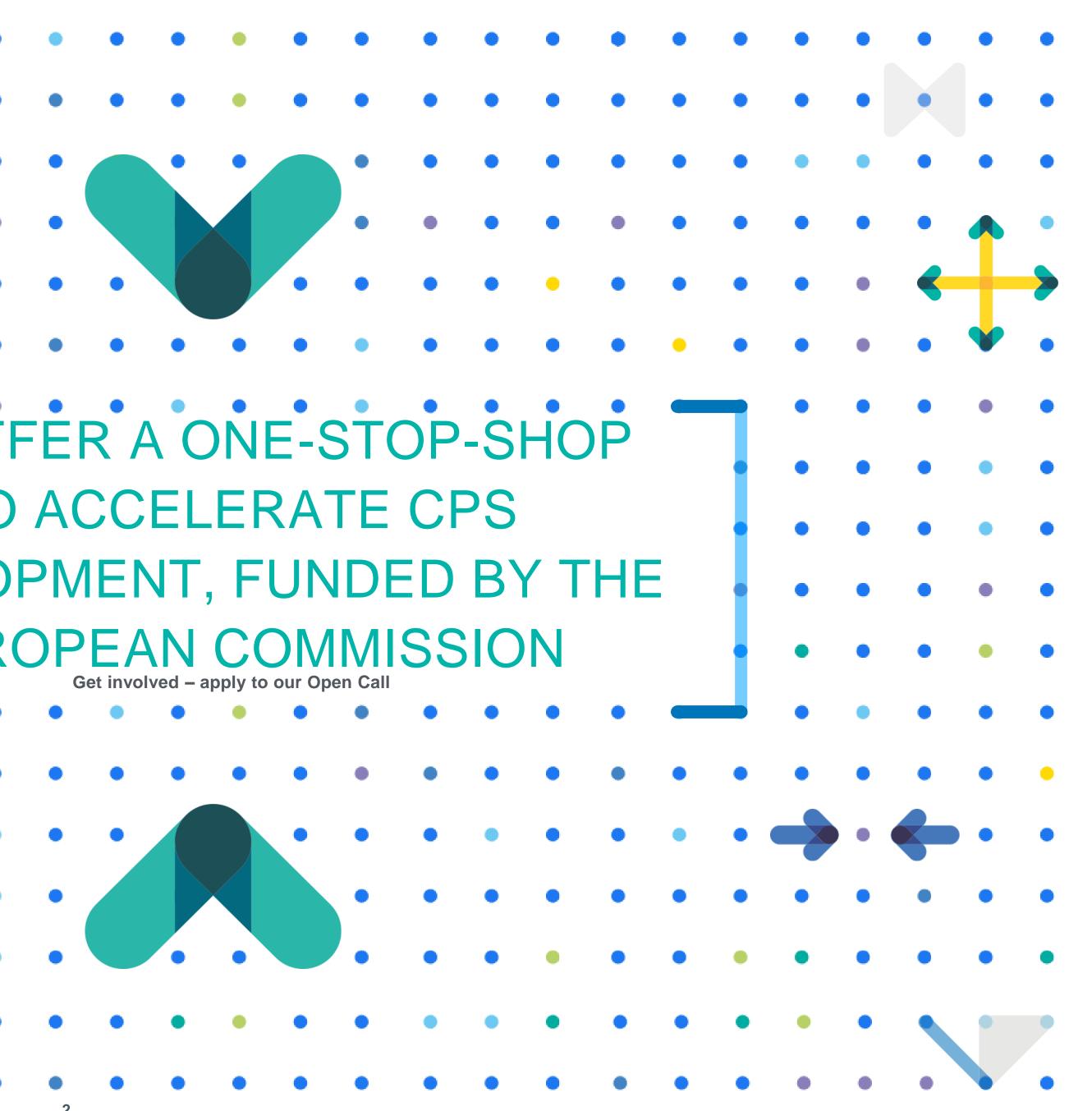
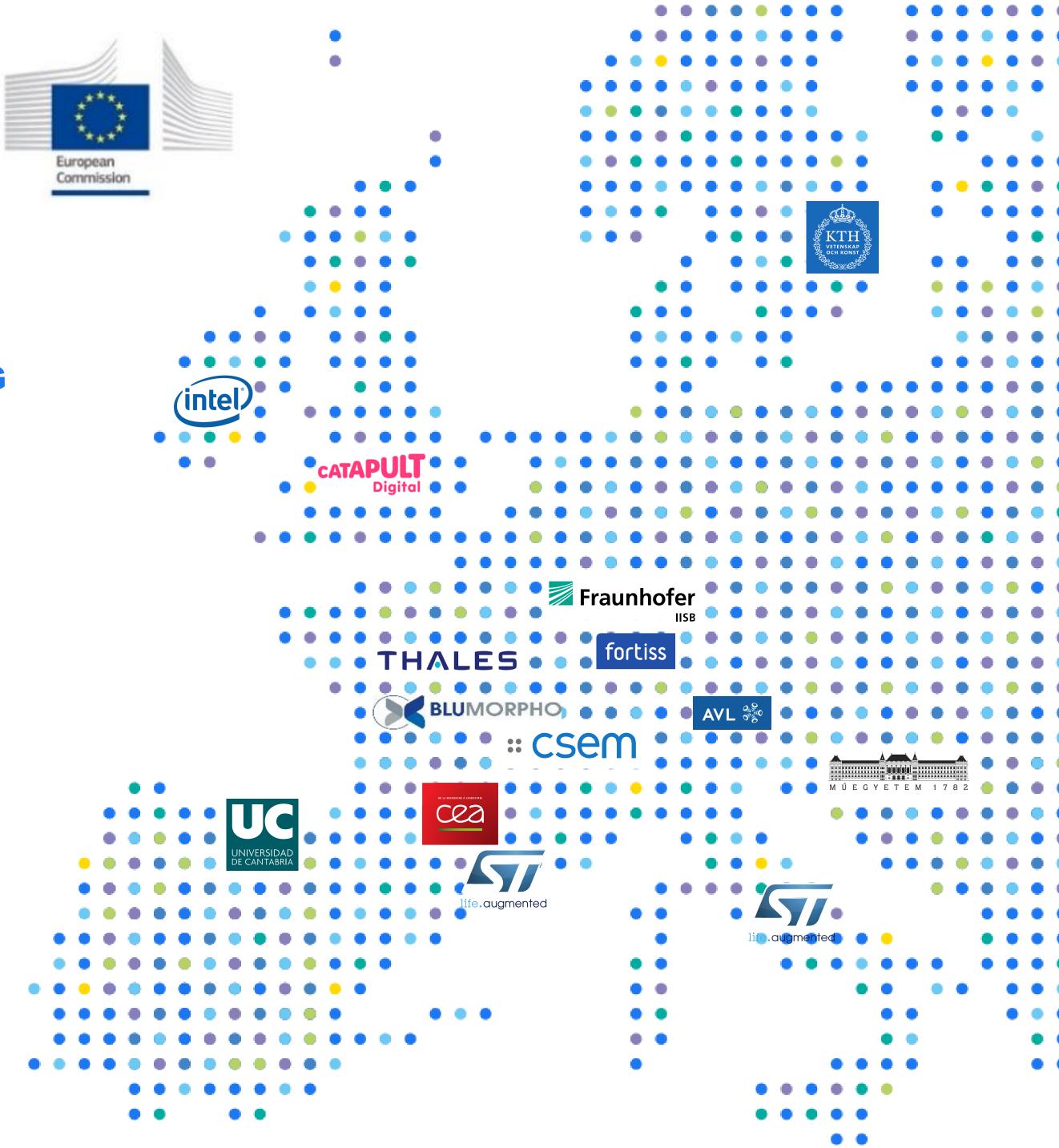


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## WHO WE ARE

## **PART OF THE SMART ANYTHING EVERYWHERE INITIATIVE**

FED4SAE brings together

- Fourteen partners
- Ten countries
- Eight R&D centers
- Five industrial partners, and
- One SME

The project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement no. 761708.



## THE RISE OF CYBER PHYSICAL SYSTEMS (CPS) ...



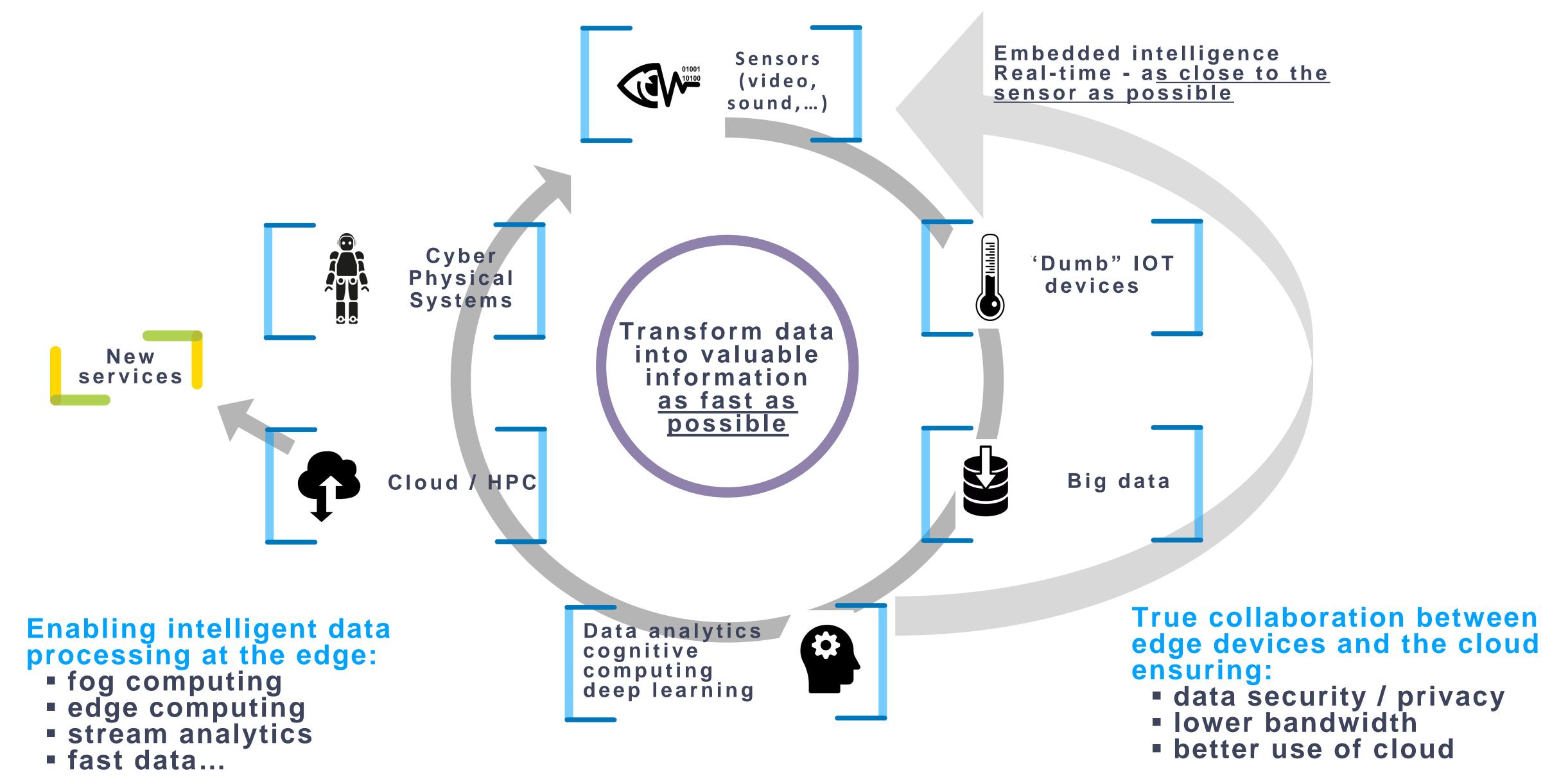
### ...RESULTS FROM AN INCREASINGLY CONNECTED WORLD





5

## ... AND THE DEMAND OF EDGE INTELLIGENCE ENABLED WITH DEEP LEARNING



better use of cloud









## WE HELP ACCELERATE EUROPEAN CPS **SOLUTIONS TO MARKET**

## WE PROVIDE

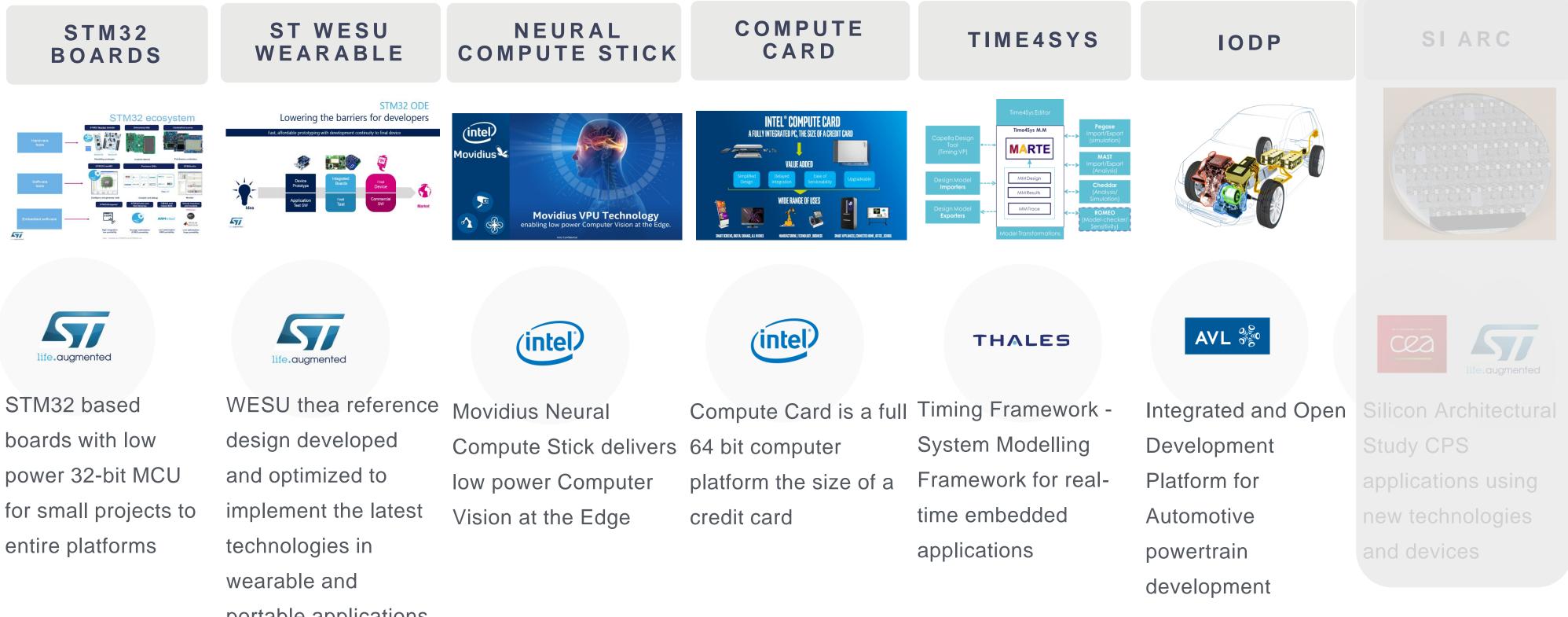
- from Industrials and R&D centers
- Technical coaching from domain experts
- Innovation Management support:
- Access to VC's
- Up to €60k in initial financial support,

Access to leading-edge CPS platforms, Advanced Technologies, and Testbeds

Access to potential users and suppliers across value chains throughout Europe



## **CHOOSE YOUR PLATFORM PARTNER- MANDATORY**







portable applications with iNEMO SIP sensors





## **RANGE OF ADVANCED** TECHNOLOGIES



#### SILICON IMPULSE

The one-stop-shop for ultra-low power expertise in integrated circuit design

LINC IoT Device Management Middleware

**SIGMA FUSION** Automotive Sensor Fusion platform

**SENSINACT MIDDLEWARE** IOT Device Management Platform

### **# CSem**

**GPS FREE** LOCALIZATION **GPS** free localization solver for any LoRa® / LTE-M / NB-IoT / WiFi / BT Network

**VISION IN A** PACKAGE Vision in a Package / Intelligent Camera

**HYPER VISION** Intelligent Camera System for Hyperspectral Imaging

Robust low power wireless for safetycritical applications

**WISEMAC** 

Peer to Peer low power medium access protocol for wireless communication

**WISENET** 

Ultra Low Power Wireless Sensor Network

**CHEMICAL SENSING** Nanotechnology for chemical sensing

### WISEDEEP

#### SOFT MEMS

Stretchable soft membranes that can be integrated on MEMS

### ADV MFG & PACKAGE

Advanced Manufacturing and Packaging (additive manufacturing + microfabrication)

### fortiss

#### **4DIAC**

Infrastructure for distributed industrial process measurement and control



🗾 Fraunhofer

### **INFRASTRUCTURE** continuous silicon CMOS and silicon carbide process line



#### AIDE

Data Management Tools for engineering of Cyber-Physical Systems

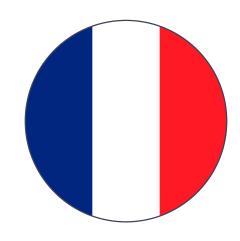




## **FIVE TESTBEDS**



RELIABILITY **BME**, Hungary Harsh environment and systems integration reliability test environment





PTL	LPV
CEA, France	Dig
Smart Home,	UK
Health, and	Lon
Transportation	test
Testbeds	Pov
	Are

WAN

ital Catapult,

ndon-wide

tbed for Low

wer Wide

a Network

based CPS

solution



RCV

KTH, Sweden Research Concept Vehicle - An Open Platform for Sustainable Transportation R&D



**SMART CITY** Unican, Spain **CPS** Massive urban infrastructure in technology and service assessment



## **AREAS OF APPLICATION AND MARKETS**

- Each Application Experiment must focus on at least one of the following areas
  - Software-intensive Application Experiment
  - System integration Application Experiment
  - CPS and Embedded System with innovative component
    Application Experiment

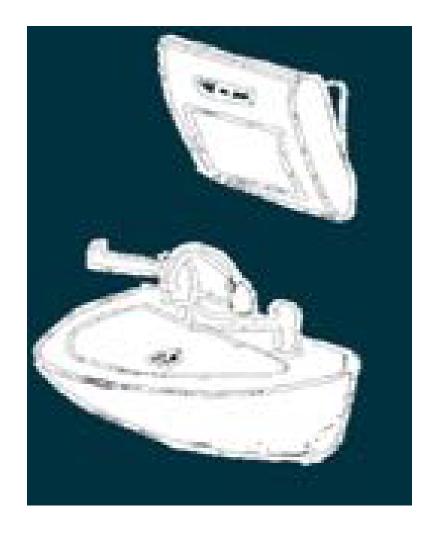


## EXAMPLE OF A RUNNING PROJECT

TO DEVELOP A SMART SINK THAT IMPROVES HAND HYGIENE IN **HEALTHCARE AND FOOD PREPARATION:** 

- TO MEASURE THE COMPLETENESS OF HAND WASHING BY HEALTHCARE AND KITCHEN STAFF & TO WARN THEM IF THEY MISS ANY PART OF THEIR HANDS.
- IF A PART IS MISSED, TO PROVIDE INSTRUCTIONS ON HOW TO **IMPROVE THEIR TECHNIQUE**













FED4SAE PRESENTATION 19-NOV-18

## THE CHALLENGE IS TO COMBAT THE VALLEY OF DEATH, WHEN COMPANIES STRUGGLE TO FINALISE THEIR PRODUCT DEVELOPMENT WITH NO OR LOW REVENUE GENERATION AND LIMITED RESOURCES TO REACH THE MARKET



### FUNDING

To support R&D of EU SMEs and

Mid-caps

# 3

### **OPEN CALLS**

We will accept applications every six

months

# 18

### **MONTH MAX DURATION**

Maximum duration for funded projects

# 35

## SELECTED

Proposals we will support in bringing

CPS solutions to market



## HOW TO APPLY

## **SUBMIT**

Apply to our third call

Opens in early December- closes in early March.

From the FED4SAE website

https://fed4sae.eu/innovative-projects/open-calls/

You will receive feedback on your proposal within 7 weeks



# The evaluation of Application Experiment proposals will be based on scores given according to four basic criteria:

- Excellence,
- Impact,
- Quality
- Business Case of the AE.



The technical aspects (Impact, Quality and Excellence) will be evaluated by

- 3 independent external experts from outside the consortium

The business case of your proposal will be assessed by our consortium member Blumorpho.

Consortium members that are directly involved in your proposal will not evaluate it to avoid potential conflict of interests.

By an internal evaluation committee – consisting of our consortium members



## **BEST PRACTICE FOR A SUCCESSFUL PROPOSAL**

Did you Contact a Networking Partner – Propose your idea, product, platforms. etc.

Get in contact with our Platform and Advanced Platform Partners to check the feasibility of your experiment

**Contact a Innovation Management Partner** 

The top ten of the best proposals had contacts with the consortium before the application.





## **CONTACT INFORMATION FOR OUR PARTNERS**

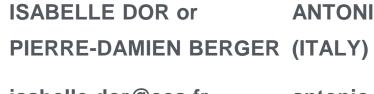
Our partners work in different roles and capacities in FED4SEA. To contact our partners directly please use the following contact information:







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# GET INVOLVED APPLY TO OUR OPEN CALL

FIND OUT MORE https://fed4sae.eu









Horizon 2020 Programme

