



EuroCPS

Cyber-Physical Systems

A network of design centers boosting and initiating synergies between Innovative companies, major CPS-platforms and CPS-competency providers

ICT1-clustering and communication event

Ph.Bonnot, Vienna April 14 2016

THALES



CATAPULT
Connected Digital Economy

L
LULEÅ
TEKNISKA
UNIVERSITET



Fraunhofer



fine power®



High Tech NL

Schneider
Electric

Smart Anything Everywere initiative



Innovation Services for
European Smartization by SMEs
Coordinator: Blumorpho



Smart Access to Manufacturing for
Systems Integration
Coordinator: Hahn-Schickard Ges.



CPS Engineering Labs
Coordinator: Fortiss



Industrial access to CPS
technologies and competencies
Coordinator: CEA-Leti

➡ >25M€ of funding invested by the European Commission to
catch the CPS market

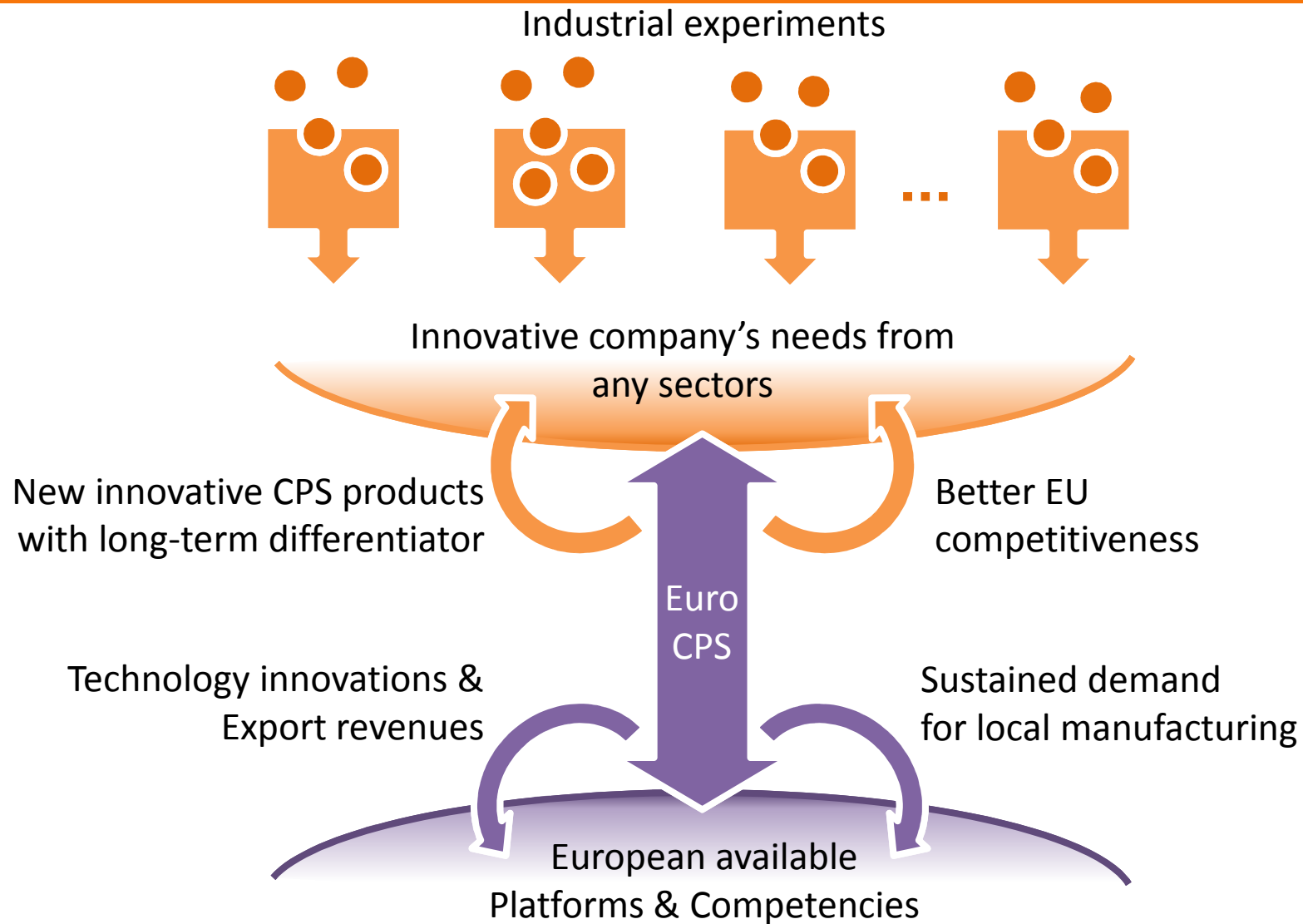
EuroCPS in a nutshell

- Call: ICT-01-2014
- Launched: Feb 1st, 2015
- Duration: 3 years
- 9 Countries
- 15 Partners
- 8 Technology Platforms
- Budget: 9,178,641€
- EC funding: 8,186,835€



➔ **Industrial Experiment support: 76% of the EuroCPS funding**

EuroCPS objectives

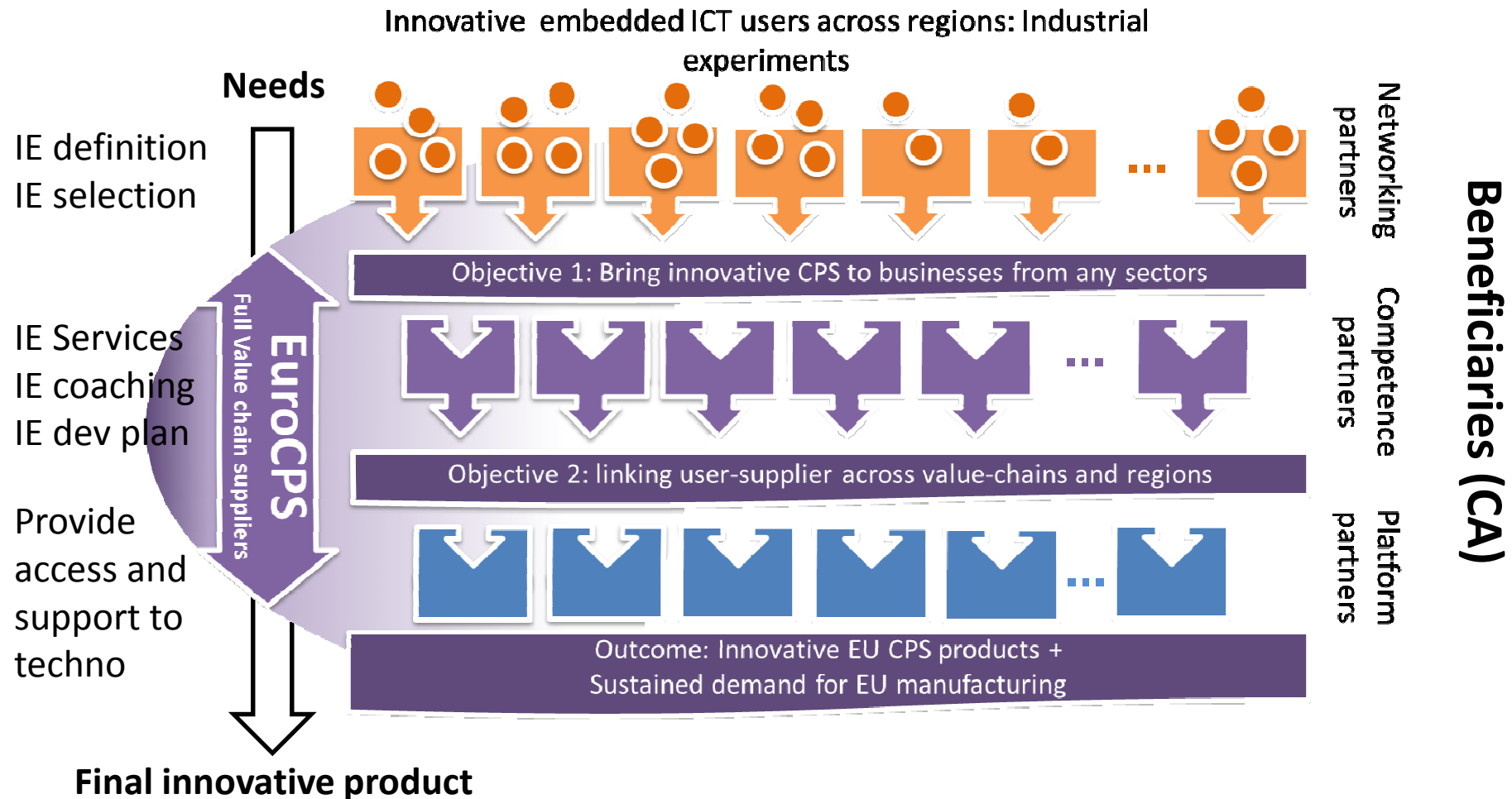


EuroCPS mission

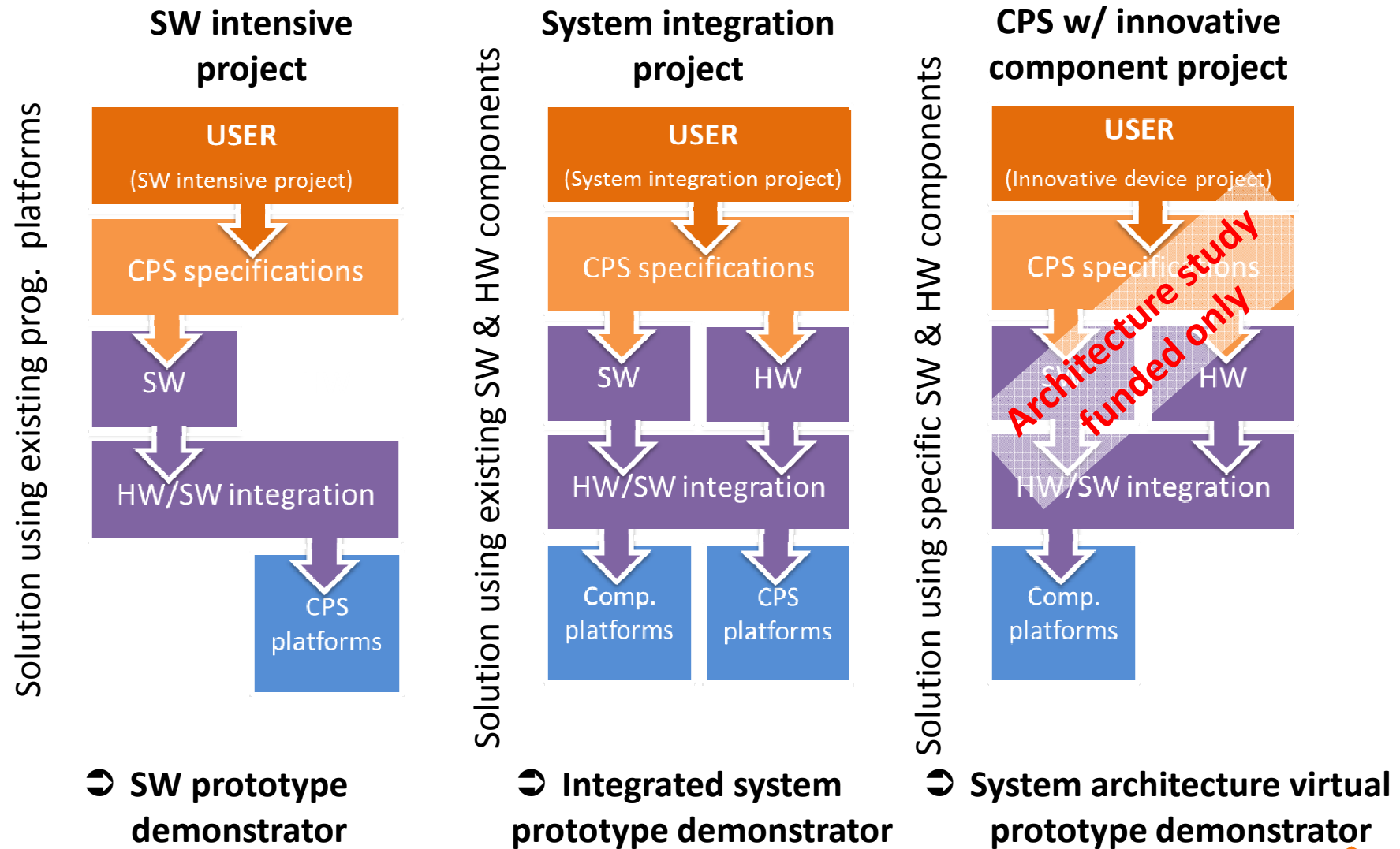
- **Provide an easy path to build innovative CPS systems** to SMEs from any sector
 - Leverage the existing regional ecosystem across the full value chain and range of competencies
- **Facilitates user-supplier partnerships** across value chains and regions
 - One-stop-shop providing a critical mass of technologies and competencies
- **Enable a new cooperation model** linking software, system and nano-electronic industries along the full CPS value chain
 - Industrial experiments initiated and led by SMEs

➡ Reduce development time and certification efforts

EuroCPS structure



EuroCPS Industrial Experiments



The 8 EuroCPS platforms

Software

Avionics Platform

Processing board & real time SW solutions provided by Thales

Integrated and Open Development Platform

Simulation methods and tools for development provided by AVL

Integration system

Connectivity Platform

Solution for digitalization application provided by Schneider

STM32 Microcontroller Platform

32-bit product range provided by STMicroelectronics

iNEMO Inertial Platform

A sensor platform provided by STMicroelectronics

Quark System on Chip Platform

Low-power platform provided by Intel

Hardware

Power management Platform

Component platform provided by Infineon

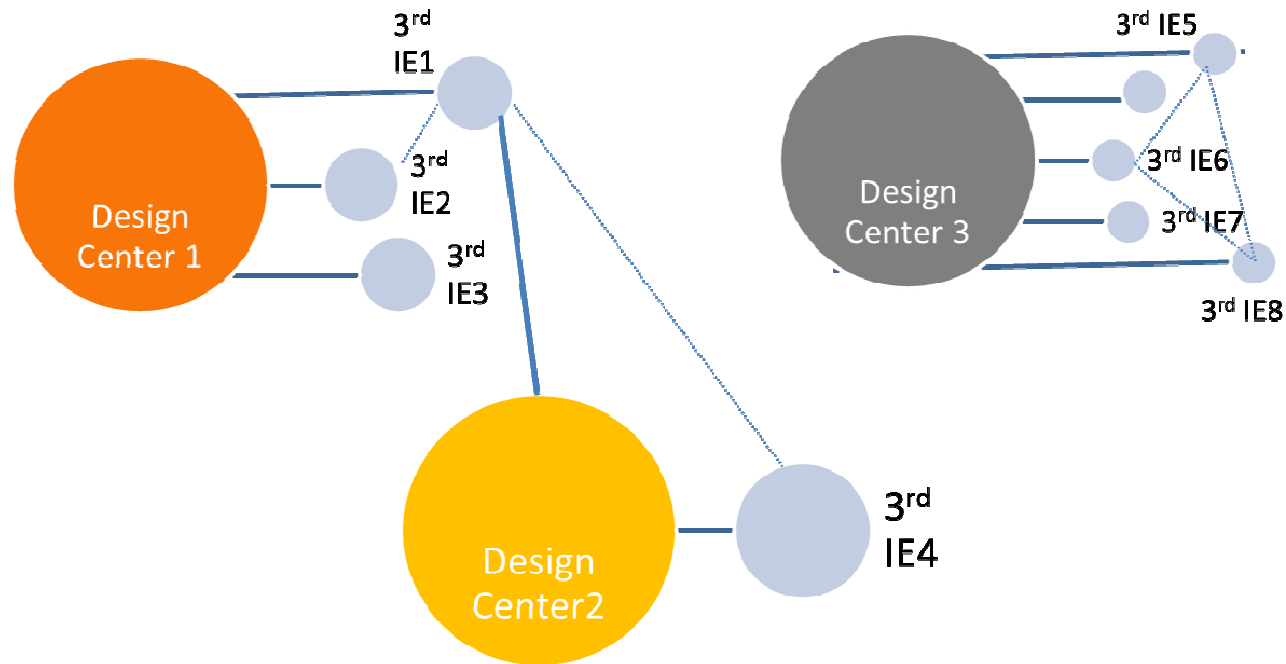
Silicon Process and Package Technology

Leading-edge silicon processes and package technologies provided by STMicroelectronics



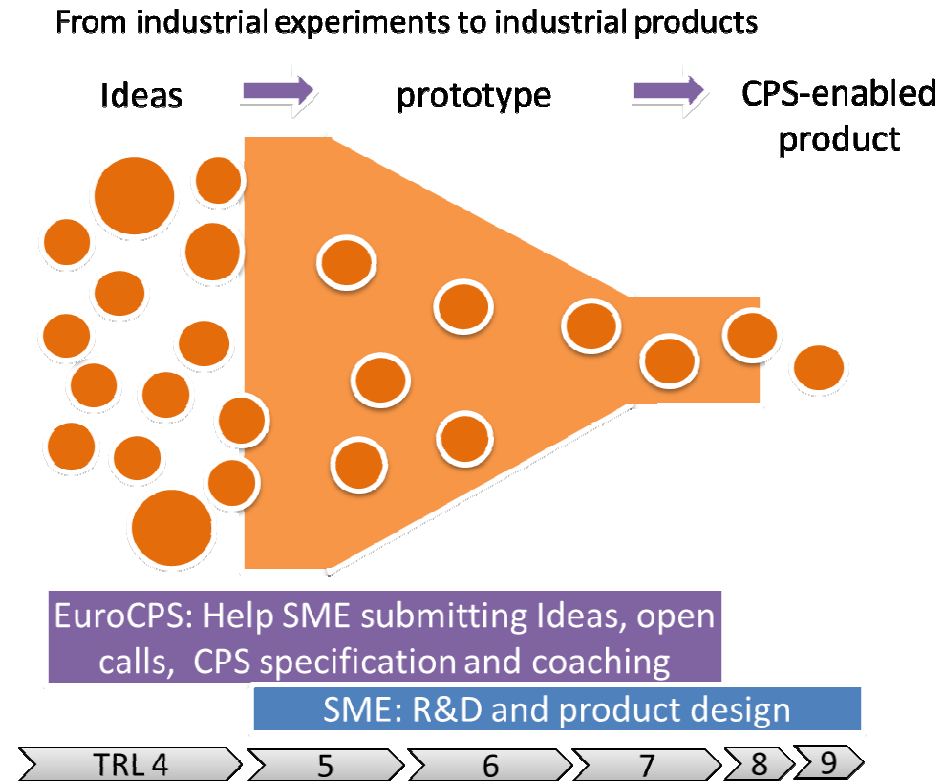
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EuroCPS SME financial support



- ➔ Cascade funding (70% of the budget): Support R&D work of 3rd parties
- + Platform funding: Support the technology access
- + Competence funding: Support the expertise, know-how access

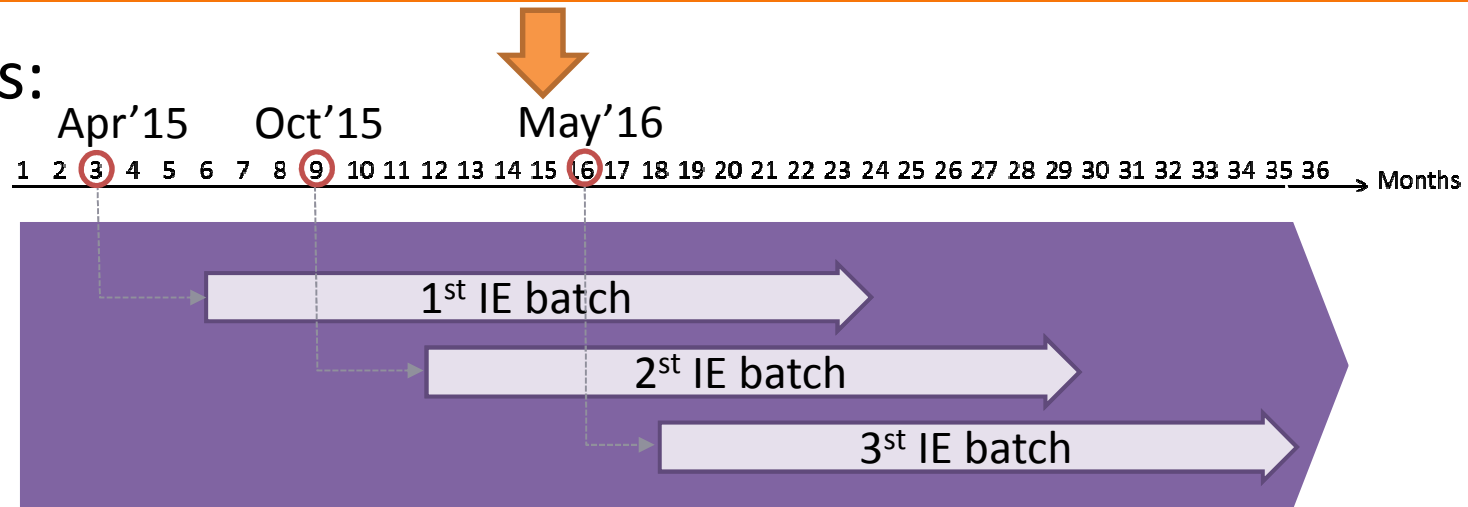
EuroCPS industrial experiments



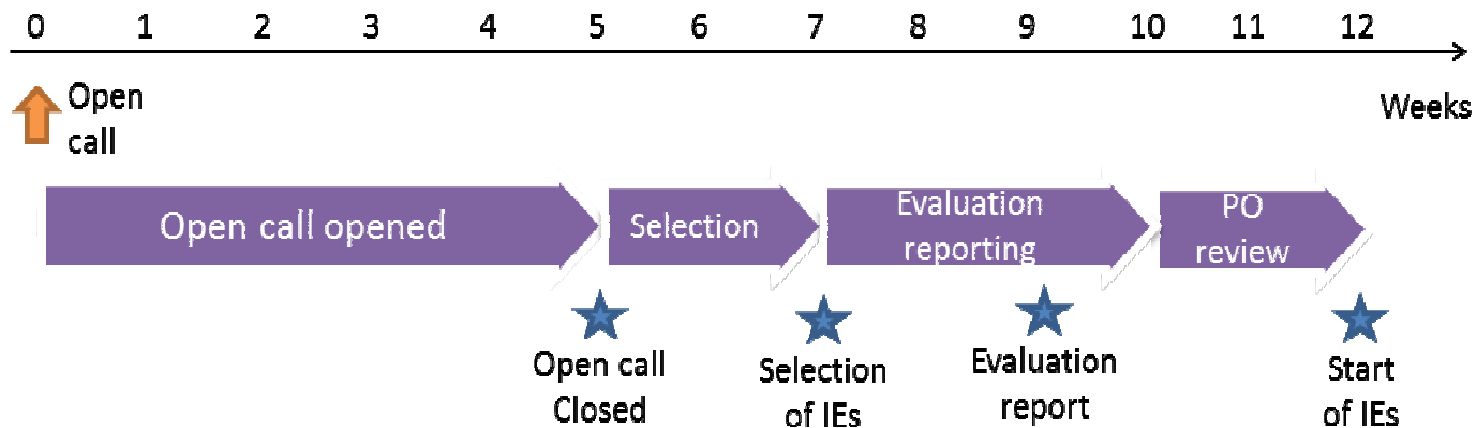
- ➡ Project criteria: Excellence, Impact, Quality
- ➡ Fast track experiments (18 months maximum)

EuroCPS open calls

Dates:



Basic principal:



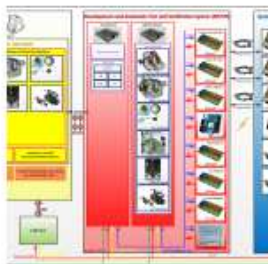
EuroCPS 1st and 2nd call IEs



Innovation Branding
Through Trusted IoT IBT3



Mb/s Green-OFDM IoT



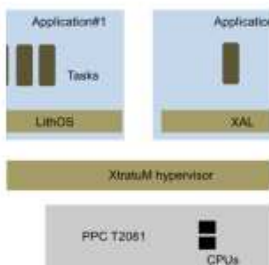
Development and
Automatic Test and
Verification System
(DATVS)

mikrolab

GUDA – Multifunctional
graphical universal data
display



Localization and Tracking
with inertial sensors for
agri-food applications
(LTIS)



Mixed Critical Avionics on
Multicore Xtratum
Hypervisor (MCS-MX)



SmartLAB – Sample
Management with RFID
Tags for Laboratories



SmartSSL



WEETSY2 – Wearable Eye
Tracking System V2

➡ 72 proposals, 24 granted IEs



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Thank you

www.eurocps.org

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