

SELFSUSTAINED CROSS-BORDER CUSTOMIZED CYBERPHYSICAL SYSTEM EXPERIMENTS FOR CAPACITY BUILDING AMONG EUROPEAN STAKEHOLDERS

SMART4ALL Open Calls, the right funding instrument to boost technology and business development in South, East and Central Europe

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What are SMART4ALL goals?

To build **cross-border experiments** that **transfer knowledge** and **technology** between **academia** and **industry** in **Customised Low-Energy Computing** (CLEC) for **Cyber-Physical Systems** (CPS) and the **Internet of Things** (IoT)

To accelerate digital transformation and increase digital skills in underrepresented geographical areas —especially **SEE**— in the 4 SMART4ALL verticals

SMART4ALL Verticals

 SMART4ALL is focused on Customised Low-Energy Computing (CLEC) for Cyber-Physical Systems (CPS) and the Internet of Things (IoT) in the following domains:

	SMART4ALL VERTICALS			
	DIGITIZED TRANSPORT	DIGITIZED ENVIRONMENT	DIGITIZED AGRICULTURE	DIGITIZED ANYTHING
SMARTALL COMPETENCE FIELDS	Green transport Smart mobility Shared mobility Robotics New platforms for efficient supply-demand matchmaking Automotive electronics Autonomous vehicles Connected vehicles Streamlining transport using big data Aeronautics and space applications Transport and Logistics City Transport Mapping	Smart building Water pollution monitoring Smart grids Environment monitoring Bio-diversity Smart industry Data processing & data visualization	Smart farming Al inspired agriculture Information based site specific applications Demand driven, sustainable agriculture Mobile plant, soil and environment sensors Sensor networks – EU wide – cross-border Field robotics and automation systems UAV based agriculture and plant monitoring Selective plant protection Closed nutrient cycles Agricultural decision support systems Zero-energy food systems Circular economy Water, Energy and Food (WEF) efficiency Revalorization of agricultural waste	Human-machine Interaction Digital Education Industrial Automation Machine Learning Market Intelligence Medical and Health Applications Active & Healthy Ageing Support for disabled persons Cybersecurity Data Mining and Big Data Personal security Additive Manufacturing (3D printing) Augmented and Virtual Reality Audio/Video Processing Location-based Technologies Web and Mobile Applications Wireless Sensor Networks Disaster management Digital heritage Telemedicine Rehabilitation, wellness, fitness E-commerce

Open Calls - Value Proposition

• 9 open calls:

- (i) supporting 67 cross-border pathfinder application experiments (PAE).
- (ii) 3 batches: 1 KTE, 1 FTTE, 1 CTTE in the years 2020, 2021 and 2022.
- EU Funding up to EUR 80,000 equity-free per PAE.
- Support and coaching from experts in technology, business development, public and private funding, and ethics.
- Marketplace-as-a-Service, AI based services and tools:
 - (i) practical technical tools/services to accelerate design, development, prototyping and manufacturing phases.
 - (ii) brokerage, coaching and guidance to **access funds** for market growth and development.

Current Open Calls

CTTE – Cross-Domain Technology Transfer Experiments

One Academic/Industrial **Technology Provider** transfers a novel technology to one Industrial **Technology Receiving** partner as an early-adopter and then one Industrial **productization** partner extends the value chain.

Duration: 9 months

OPENED on 15th October 2021

CLOSES on 17th January 2022 at 17:00 CET

Who can apply to CTTE?

ACADEMIC



Universities and other Academic Institutions

INDUSTRIAL



SME and Slightly Bigger Companies (< 500 employees & < EUR 100M turnover)



System Integrators and **Technology Providers** specialised in technology transfer or system integration to End-users (provided they can be categorised in one of the two previous types of beneficiaries)

Must be a consortium of 3
entities and led by an
INDUSTRIAL partner

Must be CROSS-BORDER from 2 different ELIGIBLE countries

Who can apply?

CTTE

TECHNOLOGY PROVIDER	TECHNOLOGY RECEIVER	PRODUCTIZER
ACADEMIC, Country 1	INDUSTRIAL, Country 1 or 2	INDUSTRIAL, Country 2 or 1 or 3
INDUSTRIAL, Country 1	INDUSTRIAL, Country 1 or 2	

• Eligible countries:

- EU member states
- H2020 Associated countries
- Other SEE countries
- United Kingdom

CTTE Specifics

The technology Transfer must be:

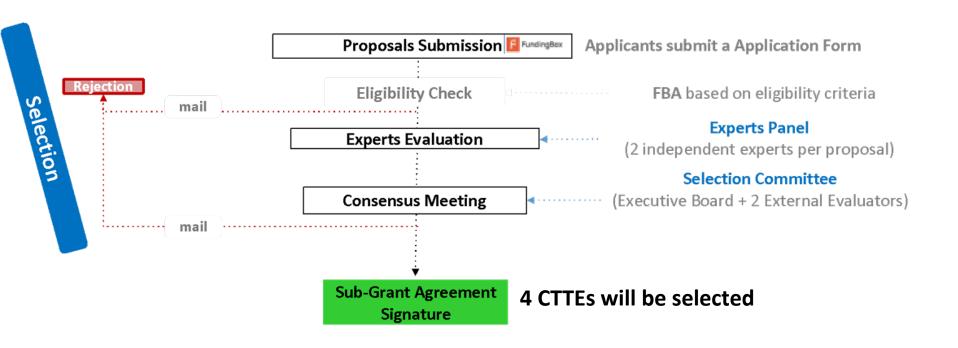
- A new product or extra features added to an existing product, always linked to IoT and Low-Energy Consumption (CLEC) systems, namely:
 - ☐ a reduction in power or energy consumption in % per device.
 - ☐ the power reduction can enable new features, new applications, or open new market verticals.
- Engineering/manufacturing processes improved.
- Cost savings in product engineering/manufacturing.

Examples

- A compression algorithm with adequate adaptation/enhancement is used in wireless communication for medical purposes.
- 2) A hardware accelerator is integrated and used in surveillance or medical or ambient assisted living environments purposes.

Previous winners can be found on the SMART4ALL Project Website https://smart4all-project.eu/

Selection Process Overview



Evaluation Criteria – CTTE

Criteria	Description
Excellence	Ambition: to what extent the proposed experiment is beyond the State-of-the-Art and what is the innovative approach behind it (e.g. ground-breaking objectives, novel concepts and approaches, new products, etc.)
	Innovation: level of innovation within their market and degree of differentiation that the experiment will bring.
	Soundness of the approach : objectives of the proposed experiment to be clearly defined, relevant and aligned with the SMART4ALL project objectives, verticals and competence fields. Elevation of TRL clearly justified.
Impact	Benefits of the collaboration , in terms of technical and/or business/market expectations, and to what extent this particular collaboration will lead to a successful experiment and high economic impact.
	Market opportunity: demonstrate whether the new/improved product has market potential, e.g. because it solves a problem for a specific target customer.
	Competition analysis for the experiment product/service and if the proposal is disruptive and breaks the market.
	Commercial Strategy and Scalability: How the experiment is scalable and able to be commercialised to solve a structural problem in a specific sector/process/etc., using convincing business model and projections.
	How the proposal has an impact in the lives of sensitive social groups . I.e. Improving or supporting the lives of people who belong in sensitive social groups.

Evaluation Criteria continued

Criteria	Description
Implementation	Work plan : clearly described and fully aligned with the objectives, including Work packages, tasks and responsible partners. The time plan should be realistic and achievable, coherent and effective.
	Contribution to SMART4ALL marketplace : All SMART4ALL funded PAEs are required to contribute at least one artefact to the project Marketplace (https://marketplace.smart4allproject.eu/).
	Team: Management and leadership qualities; balanced and cross-functional.
	Resources : Quality and effectiveness of the resources assigned in order to get the objectives/deliverables proposed. Define the cost incurred (if any) in uploading an artefact as a contribution to the SMART4ALL marketplace.

Scoring and Prioritised Sub-Criteria

- Each criterion will be scored from 0 to 5. The threshold for individual criterion will be 3. The overall threshold, applied to the sum of the average of three individual scores of the 2 evaluators, will be 10.
- Applicants including at least 1 member of the SEE region in their consortium will be given 1 extra point to the overall score (except Greece).

List of SEE countries

Albania, Bosnia and Herzegovina, Bulgaria, Croatia, Hungary, Kosovo, Moldova, Montenegro, North Macedonia, Romania, Slovakia, Slovenia and Serbia

Financial Support

Financial Support	CTTE
Per PAE	up to EUR 80,000
Per partner	up to EUR 60,000

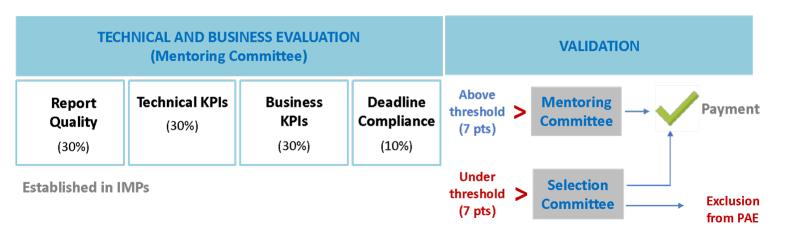
Note: Financial Support will be paid as a **lump sum** to the **lead partner** who will distribute the funds. The distribution of funds between partners should be reasonable

Note: Any partner can receive a maximum of EUR 60,000 if they haven't received money from any other SAE/L4MS. The combined amount cannot exceed EUR 100,000

Payment Arrangements – CTTE

Deliverable	Submission date	Lump sum Instalments
Individual mentoring plan	15 Days After the signature of SGA	30%
Mid-term Report	End of Month 5	50%
Final Report	End of Month 9	20%

Interim & Final Review Milestones



Open Calls Schedule

Description	СТТЕ
Open Call Launch	15 October 2021
Open Call Deadline	17 January 2022 at 17:00 CET
Open Call Evaluation and Selection	January/February 2022
Consensus Meeting	February 2022
Communication of Results	February 2022
Start of the Experiment	Beginning of April 2022
End of Experiment	End of December 2022

Application Submission

How to apply?

CTTE: https://smart4all.fundingbox.com/

Find our **Guides & Documents** here:

https://smart4all.fundingbox.com/pages/Guides&Documents

Helpdesks

- SMART4ALL online community helpdesk: https://spaces.fundingbox.com/spaces/smart4all-helpdesk
- SMART4ALL project website helpdesk: https://helpdesk.smart4all-project.eu

Q&A Session

Questions from you...