



SELSUSTAINED 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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Outlines

- SMART4ALL Goals
- SMART4ALL Verticals
- Open Calls – Value Proposition
- Current Open Calls
- Who can apply
- Open Calls Program
- Selection Process overview
- Evaluation Criteria
- Financial Support
- Deliverables
- Schedule
- Application Submission
- Q&A

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				
SMARTALL COMPETENCE FIELDS	DIGITIZED TRANSPORT	DIGITIZED ENVIRONMENT	DIGITIZED AGRICULTURE	DIGITIZED ANYTHING
		<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • Smart building • Water pollution monitoring • Smart grids • Environment monitoring • Bio-diversity • Smart industry • Data processing & data visualization 	<ul style="list-style-type: none"> • Smart farming • AI 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

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 1 December 2020

CLOSES on 1 March 2021, at 17:00 CET

Passed/Upcoming Open Calls

KTE - Knowledge Transfer Experiments

One **Sending** Academic/Industrial partner sends a member of its staff to one **Host** Academic/Industrial partner for an internship project to transfer knowledge.

- **Duration: 3 months**

1st batch CLOSED on 15 September 2020

2nd batch OPENS in March 2021

FTTE - Focused Technology Transfer Experiments

One Academic/Industrial **Technology Provider** transfers to one Industrial **Technology Receiver** a specific Hardware or Software technology in order to enable an improvement in product or processes.

- **Duration: 9 months**

1st batch CLOSED on 30 September 2020

2nd batch OPENS in June 2021

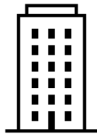
Who can apply to CTTE?

ACADEMIC

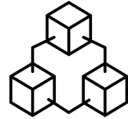


Universities and other **Academic Institutions**

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?

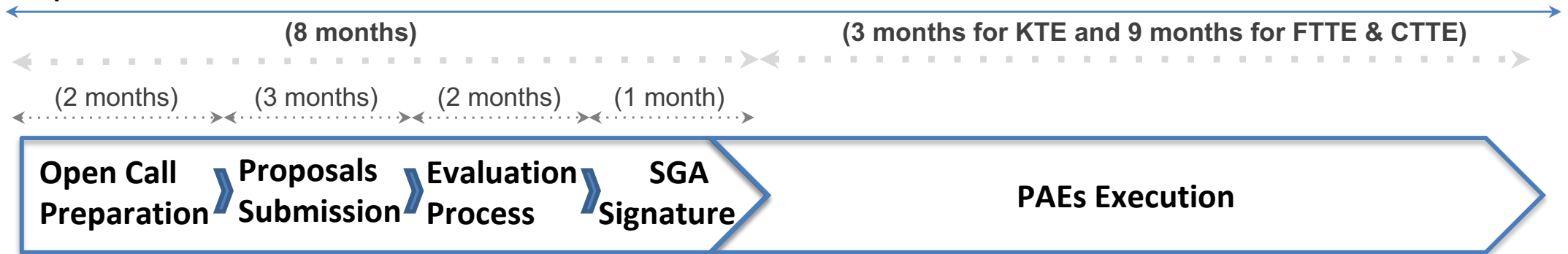
CTTE

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

- **Eligible countries:**
 - EU member states
 - H2020 Associated countries
 - Other SEE countries

Open Calls Program

Experiments timeline



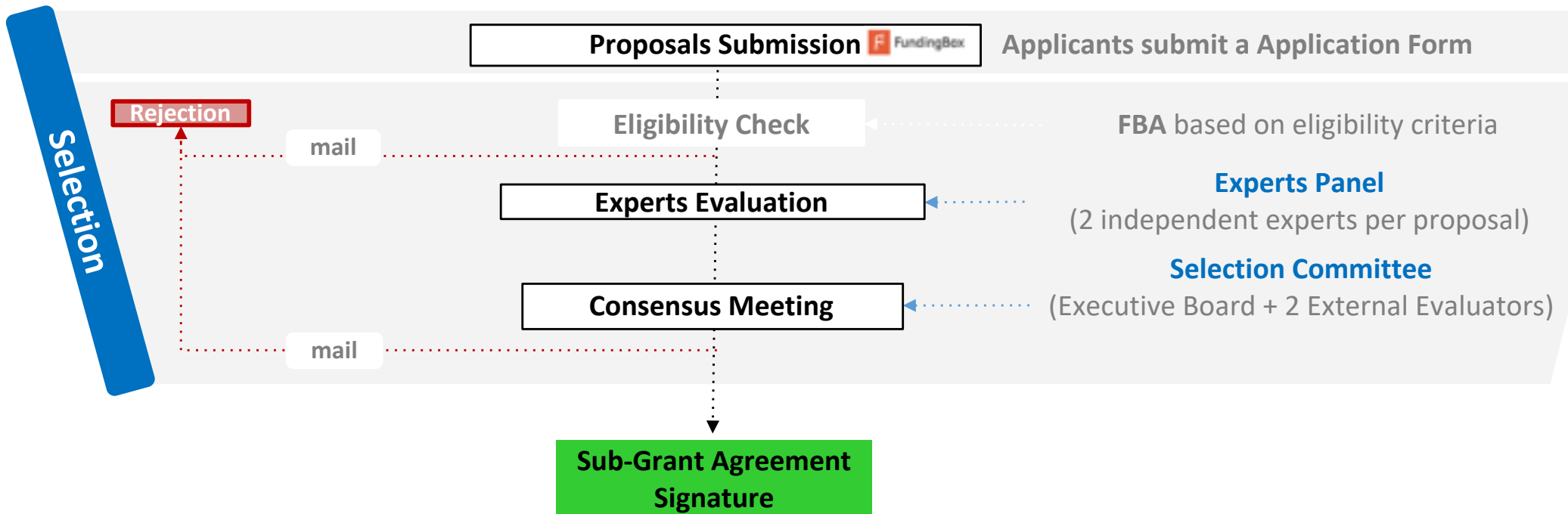
Legend: **67** N° of PAEs supported

67

N° of PAEs supported per batch:

	KTE	FTTE	CTTE
	43	12	12
	15	4	4

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.
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.
	Team: Management and leadership qualities; balanced and cross-functional.
	Quality and effectiveness of the resources assigned in order to get the objectives/deliverables proposed. 12

Prioritised Sub-Criteria (SEE / Covid-19)

- Each criterion will be scored from 0 to 5. The threshold for individual criteria will be 3. The overall threshold, applied to the weighted sum of the three individual scores, 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.

List of SEE countries

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

- Proposals addressing current and future problems stemming from the **COVID-19 crisis** will be given **1 extra point** to the overall score.

Financial Support

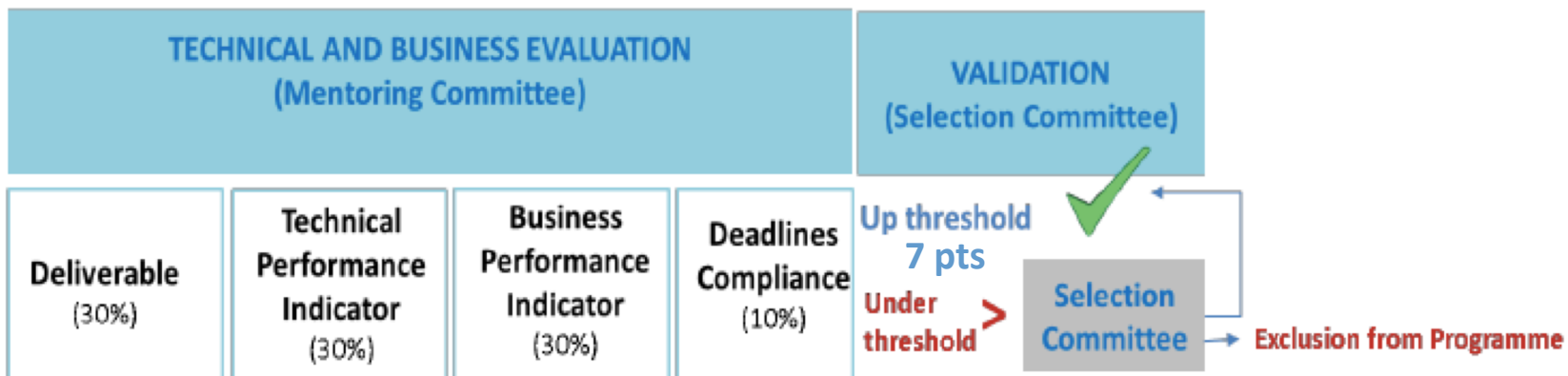
Financial Support	CTTE
Per PAE	up to EUR 80,000
Per partner	up to EUR 60,000

Note: Financial Support will be paid as a **lump sum** to the **LEAD PARTNER** who will distribute the funds

Payment Arrangements – CTTE

Deliverable	Submission date	Lump sum Instalments
Initial Plan	End of M03	30%
Intermediate Report	End of M06	50%
Final Report	End of M09	20%

Review Milestone



Established in IMP

Open Calls Schedule

Description	CTTE
Open Call Launch	1 December 2020 at 00:00 CET
Open Call Deadline	1 March 2021 at 17:00 CET
Open Call Evaluation and Selection	March 2021
Consensus Meeting	April 2020
Communication of Results	April 2020
Start of the Experiment	Beginning of June 2021

Application Submission

How to apply?

- CTTE: <https://smart4all.fundingbox.com/>

Find our **Guides & Documents** here:

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

If you cannot find the answer you need in the **FAQ**, you can submit your question(s) through **Q&A Space** at SMART4ALL online community **Helpdesk**:

<https://spaces.fundingbox.com/spaces/smart4all-helpdesk>

Q&A Session

Questions from you..