SMART4ALL Open Calls

Antonio Montalvo

Project Manager

FundingBox Accelerator Z.o.o.

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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

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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			
SMART4ALL COMPETENCE FIELDS	**DIGITIZED TRANSPORT**	**DIGITIZED ENVIRONMENT**	**DIGITIZED AGRICULTURE**	**DIGITIZED ANYTHING**
	• 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 • 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	• 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) 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.

What are the current/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**   **OPEN until 15 July**

FTTE - Focused Technology Transfer Experiments

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

- Duration: **9 months**   **OPENS on 30 June**

Who can apply?

ACADEMIC

Universities and other **Academic Institutions**

INDUSTRIAL

SME and Slightly Bigger Companies (< 500 employees & < EUR 100M turnover)
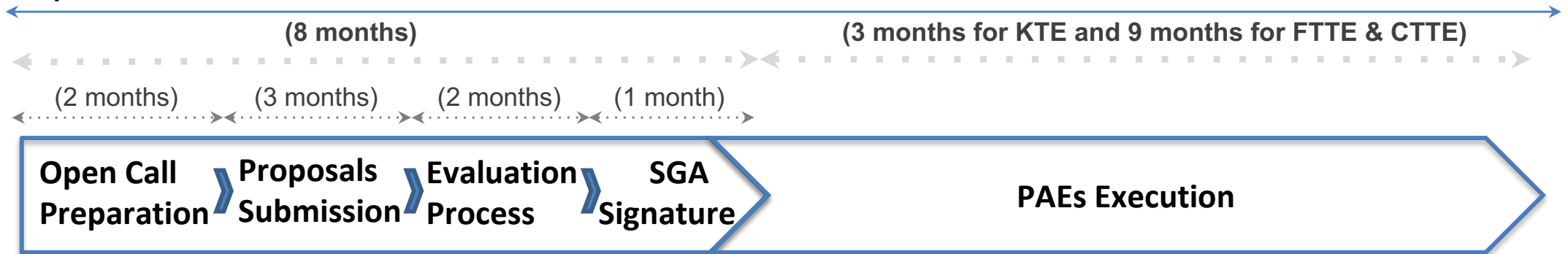
System Integrators and **Technology Providers** specialised in technology transfer or system integration to End-users (provided they can be categorised in one of the two previous types of beneficiaries)

Must be a **consortium of 2 entities** and led by the **Industrial** partner

Must be **cross-border** from 2 different **eligible** countries
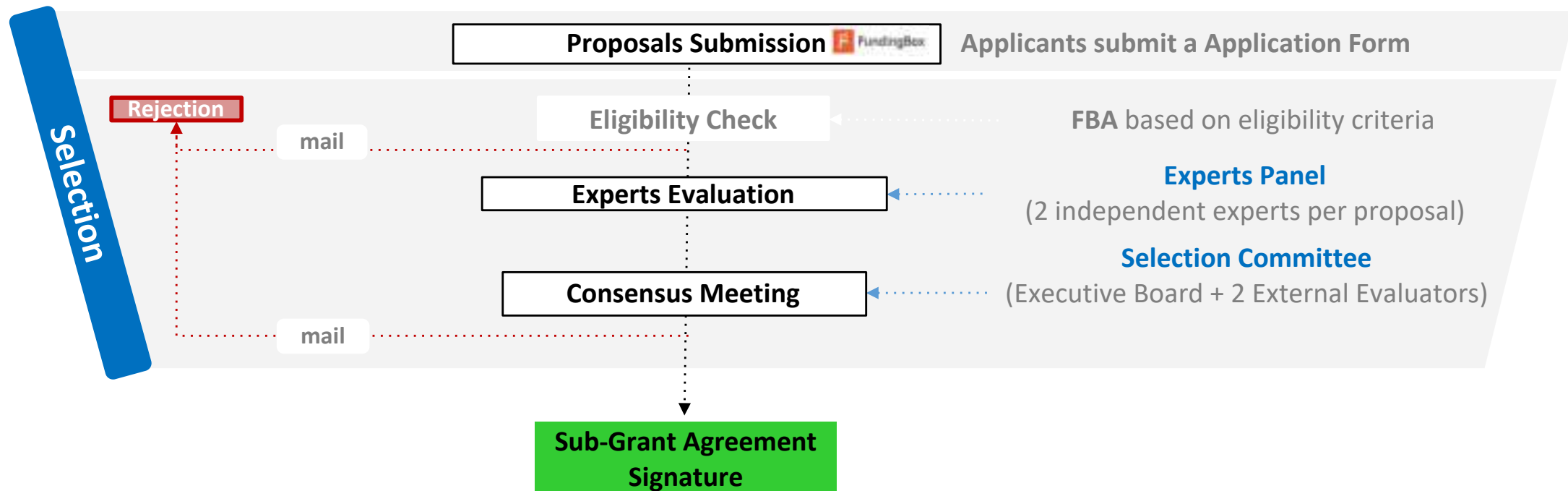
Open Calls Program

Experiments timeline

(8 months) | (3 months for KTE and 9 months for FTTE & CTTE)

(2 months) (3 months) (2 months) (1 month)

| Open Call Preparation > Proposals Submission > Evaluation Process > SGA Signature | PAEs Execution |

Legend: **67** Nº of PAEs supported

67

	KTE	FTTE	CTTE
	43	12	12
Nº of PAEs supported per batch:	15	4	4

Selection Process Overview

Proposals Submission | Applicants submit a Application Form

Rejection

Selection

Eligibility Check — **FBA** based on eligibility criteria

mail

Experts Evaluation — **Experts Panel** (2 independent experts per proposal)

Consensus Meeting — **Selection Committee** (Executive Board + 2 External Evaluators)

mail

Sub-Grant Agreement Signature

Evaluation Criteria - KTE

Criteria	Description
Excellence	**Quality and credibility of innovation projec**t: Level of novelty and appropriate consideration of the vertical applications of the proposed KTE.
	Quality and appropriateness of the knowledge sharing among the participating organisations in light of the research and innovation objectives.
	Quality of the proposed interaction between the participating organisations.
Impact	**Enhancement of the potential and future career of the staff member** being sent to the Host organisation.
	Development of new and lasting research collaborations between participating organisations.
	Benefits for the participating organisations, in terms of technical and/or business/market expectations.
	Market potential of the proposed KTE in one of the SMART4ALL verticals and **competition analysis**.
Implementation	**Coherence and effectiveness of the Work Plan**, including appropriateness of tasks and resources allocation. Workplan to be clearly described and fully aligned with the objectives; time plan realistic and achievable.
	Appropriateness of resources allocation: compliance with i) the applicable national law and taxes, labour and social security and ii) the principle of a sound financial management regarding economy and efficiency.
	Competences, experience, complementarity and commitment of the participating organisations.

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Evaluation Criteria - FTTE

Criteria	Description
Excellence	**Ambition:** to what extent the proposed FTTE 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 FTTE will bring.
	Soundness of the approach: objectives of the proposed FTTE 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 FTTE product/service and if the proposal is disruptive and breaks the market.
	Commercial Strategy and Scalability: How the FTTE 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. [11]

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. (Impact in KTE -> 1.5 weight)

- 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	KTE	FTTE
Per PAE	up to EUR 8,000	up to EUR 80,000
Per partner	N/A	up to EUR 60,000

Note: Financial Support will be paid as a **lump sum** to the **lead partner** who will distribute the funds
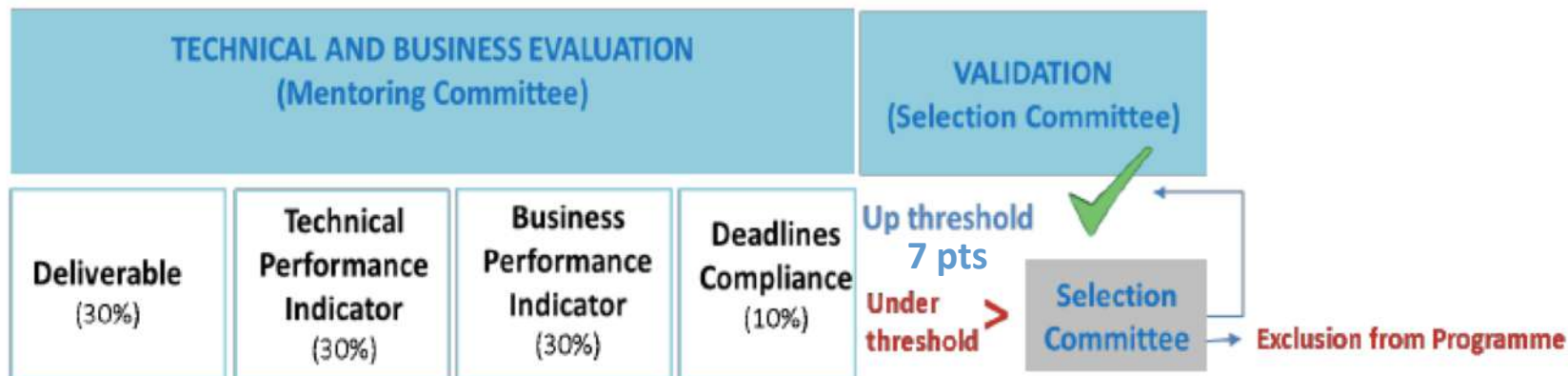
Payment Arrangements - KTE

Deliverable	Submission date	Lump sum Instalments
Inception Report	SGA + 15 days	37.5%
Interim Report	End of M02	25.0%
Final Report	End of M03	37.5%

Payments are made against **deliverables** approved by the **MENTORING COMMITTEE**

Payment Arrangements - FTTE

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

Open Calls Schedule

Description	KTE	FTTE
Open Call Launch	15 April 2020 at 00:00 CEST	30 June 2020 at 00:00 CEST
Open Call Deadline	15 July 2020 at 13:00 CEST	30 September 2020 at 13:00 CEST
Open Call Evaluation and Selection	July – August 2020	October 2020
Consensus Meeting	07 September 2020	06 November 2020
Communication of Results	11 September 2020	17 November 2020
Start of the Experiment	Mid-October 2020	Beginning of January 2021

Application Submission

How to apply?
- KTE: https://smart4all.fundingbox.com/apply
- FTTE: https://smart4all-ftte.fundingbox.com/apply

Find our **Guides & Documents** here: https://smart4all.fundingbox.com

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..