Announcement

TETRAMAX 3rd open call for

Value Chain Oriented and Interdisciplinary Technology Transfer Experiments (TTX)

Project acronym:	TETRAMAX
Project full name:	TEchnology TRAnsfer via Multinational Application eXperiments
Project grant agreement no.	761349
Project web address	https://www.tetramax.eu
Project coordinator	Prof. Rainer Leupers, RWTH Aachen University/DE leupers@ice.rwth-aachen.de
Open call title	3rd open call for Value Chain Oriented and Interdisciplinary Technology Transfer Experiments (TTX)
Open call identifier	TETRAMAX-VALUECHAIN-TTX-3
Open call publication date	31.08.2019
Full open call information	https://www.tetramax.eu/ttx/calls/
TTX online proposal submission platform	https://tetramax.fundingbox.com/
TTX proposal submission deadline	30.11.2019, 23:59 CET (Brussels time)
Expected TTX duration; estimated TTX start and end date	Between **10-12 months.** At the first day of the following month after entry into force of the TTX funding agreement and as accepted by TETRAMAX. Any date **prior to March 1, 2020 is not possible**. The TTX has to **end by April 2021** at the latest.
Total financial support per TTX / TTX partner organisation	The **average of the requested TTX financial support of around €75,000 is preferred.** Nevertheless, the TTX financial support can be between €50,000 and €100,000 maximum (for all third parties involved in the TTX). Maximum possible **funding per TTX partner over all TETRAMAX open calls is limited to €60,000**. Third parties involved in a TTX need to make sure that they have not received more than €100.000 via open calls (Financial Support to Third Parties/cascading funding) during the entire H2020 ICT programme.
Number and type of third parties involved in the TTX	Three, or more partners (in case a multidisciplinary collaboration is needed), from at least two different EU member states or countries associated to H2020; partners must be legal entities, such as universities, research organisations, SMEs, other for-profit companies (mid-caps, large industries).
Language of the proposal	English
Request for more information	opencalls@tetramax.eu

The project TETRAMAX, co-funded from the European Union's Horizon 2020 research and innovation programme under the grant agreement no. 761349, foresees as an eligible activity the provision of financial support to third parties, as means to achieve its own project objectives.

TETRAMAX and types of activities

Today's European industries are challenged by the fast developing digitalization era, making it increasingly difficult for small and medium-size enterprises (SMEs) to keep track with, and benefit from, modern ICT for their business and production cycles.

The innovation action TETRAMAX aims to boost innovation by stimulating, organizing and evaluating different kinds of Technology Transfer Experiments (TTX). These co-funded "application experiments" connect SMEs and other for-profit companies (mid-caps, large industry, etc.) with international academics, resulting in low-risk industrial adoption of novel computing technologies. TETRAMAX provides innovative advanced digital technologies for novel electronic and non-electronic products in the area of Customized Low-Energy Computing (CLEC) for Cyber-Physical Systems (CPS) and the Internet of Things (IoT) (Annex 1).

Additionally, building and leveraging a European Technology Brokerage Network (CCN) on CLEC will increase the exchange of technologies and solutions, hence increasing the opportunities for technology transfers. In the long term, TETRAMAX will be the trailblazer towards a reinforced, profitable, and sustainable ecosystem infrastructure, providing CLEC competence, services and a continuous innovation stream at European scale, yet with strong regional presence as preferred by SMEs.

TETRAMAX is one of the new initiatives established under the European *Smart Anything Everywhere* (SAE) initiative, which seeks to accelerate innovation within European industries.

Goal of a Value Chain Oriented and Interdisciplinary TTX

The **TTX partnership has to** consist of **three or more partners** representing a **value chain from research over initial product innovation towards a wider market penetration**. The TTX partners have to be based in at **least two different EU member states or H2020 associated countries**. This TTX type brings together:

- One academic partner (A) (university/polytechnics; research organisation) **providing** a particular novel CLEC hardware or software technology from research.
- One "Original Equipment Manufacturer" (OEM) partner (B) (preferably SMEs, or other for-profit company (mid-cap, large industry) **testing and deploying** the technology in its dedicated, possibly even non-tech, products with its end customers.
- Another industry partner (C) (preferably SMEs, other for-profit company (mid-cap, large industry) **productizing** this technology as a "platform" in the long-term for a wider market.
- In case any inter-/multidisciplinary cooperation is required for a successful TTX, up to three further **auxiliary partners** (from academia or industry) may be included in the TTX partnership.

Example:
A **university (A) acts as a technology provider** and intends to transfer a novel CLEC technology to a manufacturing **SME (B) as a technology receiver** in terms of non-exclusive licensing, together with training, services, and documentation, etc. as necessary. The technology receiver intends to experimentally use the new technology in order to enable improved products, processes, or services, thus acting as an OEM and early technology adopter. In case, the developed technology could be generalized and applied to other industries as well, another **specialized partner (C) could engage as a "catalyst"** (not competing with the technology receiver) to extend the value chain by productizing and maintaining the technology, e.g. in the form of customizable software tools, hardware IP and/or professional services, so as to serve a much broader market.

In case of a successful TTX, the "catalyst" would finally license a robust product back to the technology provider and a receiver and will also offer the technology and services as a platform to various other customers. **Auxiliary partners** may optionally assist in the transfer and the productization process.

It is assumed that the start TRL will typically be 3 (*experimental proof of concept*) or 4 (*technology validated in lab*), while the target TRL will be 8 (*system complete and qualified*) on average.

Details on this call incl. submission process and all relevant documents: https://www.tetramax.eu/ttx/calls/

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Annex 1: TETRAMAX competence fields

• 3D Modelling • Additive Manufacturing (3D printing) • Aeronautics and Space Applications • Approximate Computing • Augmented and Virtual Reality • Automotive Electronics • Cloud Computing • Cognitive Systems • Communication Technologies • Compiler Technology • Computer Vision • Cybersecurity • Data Mining and Big Data • Dependable and Fault Tolerant Systems • Electronic System Level Design and Tools • Embedded HPC • Environmental Protection	• Gamification • Hardware/Software Codesign • Heterogeneous Computing • Human-Machine Interaction • Industrial Automation • Integrated Circuit Design • Laser Technology • Location Based Technologies • Low-Energy Computing • Machine Learning • Market Intelligence • Medical and Health Applications • Modelling and Simulation Using HPC • Multicore Systems • Multimedia Processing • Nanotechnologies • Oil and Gas Applications • Optimization Technologies • Parallel Programming • Processor Architectures	• Quantum Computing • Reconfigurable Computing • Robotics and Autonomous Systems • Safety Critical Applications • Semiconductor Manufacturing • Sensors, Actuators, MEMS and RF • Smart Buildings • Smart Cities • Smart Metering • Smart Mobility • Smart Textile • Software Performance Analysis • Sound Processing • Speech Recognition • Surveillance Technologies • Transport and Logistics • Video Processing • Virtual Prototyping • Web and Mobile Applications • Wireless Sensor Networks