6G-SANDBOX
1st Open Call

New Infrastructures and Functionalities

EUCNC info session
June 7th 2023

This meeting is recorded and will be accessible for all participants.
About 6G-SANDBOX

6G-SANDBOX targets to become a key facility of the emerging European 6G experimentation ecosystem

- Realizing the concept of Trial Networks & validating 6G KPIs and KVIs
- With interconnected experimental facilities in Athens, Berlin, Malaga, and Oulu
- Open for facility extension and wide interactions
6G-SANDBOX Open Calls

- Ability to engage without funding at any time!

- Total budget: 1,790,000€ for 3 calls
- ~35 third parties expected to participate

- General timing (tentative) planning
  - 1\textsuperscript{st} Open Call for New Infrastructures and Functionalities (540K€)
    - Ongoing, deadline on 3 July 2023
  - 2\textsuperscript{nd} Open Call for Experimentation and (eventually) New Infrastructures (540K€)
    - Opening November 2023, deadline January/February 2024
  - 3\textsuperscript{rd} Open Call for Experimentation (710k€)
    - Opening summer 2024, deadline end of 2024
Open Call 1 Timeline & steps

• Submission deadline: **3 July 2023, 17:00 CET**

• Feasibility check
  • Proposers are encouraged to verify the feasibility of the planned implementations until 23 June 2023, 17:00 CEST
  • To do so, a brief description of planned implementation must be sent to opencalls@6g-sandbox.eu
  • Otherwise, feasibility check will be performed right after the submission deadline

• Submission
  • Must be done through the online submission portal
  • The mandatory proposal template must be used
  • Proposers must provide Declaration of Honor
  • Proposal language: English

• All information and links are available at https://6g-sandbox.eu/opencall/open-call-1/
Available Funding and Eligibility

- Maximum amount of financial support for each third party is 60,000€
  - if justified, the proposer can request higher amounts
  - A consortium (three or more participants) can request up to 180,000€
  - Contribution to the third-parties will be 90% (for-profit organization) or 100% (not-for-profit organization) of the declared costs
- Total of 540,000€ is available for this Open Call

- Main eligibility rules
  - Eligible countries: According to the rules from General Annexes to Horizon Europe for the Work Programme 2023-2024
  - Proposers’ organizations can submit multiple proposals, but only one proposal per organization might be selected for funding
  - The 6G-SANDBOX project beneficiary organizations are not eligible to participate in this open call
Evaluations

- Evaluations by independent experts,
  - Experts cannot be from the 6G-SANDBOX consortium
- Evaluation criteria
  - Impact (threshold = 3, weight 2)
    • value for extension and readiness of the 6G-SANDBOX facilities for experimentation
  - Innovation and technology (threshold = 3, weight 2)
    • innovativeness and technological value of the proposal
  - Implementation (threshold = 3, weight 1)
    • quality of methodology and of proposed participants
Ranking

• Ranking of the proposals will be done in accordance with the overall scores
• When scores are equal, prioritization will be based on other characteristics - to be decided by the panel of evaluators
• Further specific conditions of the Call
  – The proposals (ranked above the threshold) will be selected to cover as many identified call topics as possible
  – Further priority will be given to close to equal utilization of the 6G-SANDBOX facilities
Participation of Successful Proposals

• Decision on proposals to be funded is expected during August 2023

• The proposer’s organization will be contracted by the project as a third party
  – Agreement is available at https://6g-sandbox.eu/opencall

• Start of the planned work in September 2023 – to be completed in February 2024

• Support after the completion of the work
  – All functionalities and extensions must be made available to experimenters during the rest of the project duration
  – All functionalities and extensions are seen as building blocks that may require maintenance until the project end
The Open Call Objectives

To enlarge and make the 6G-SANDBOX infrastructure ready for experimentation

• Looking for the following extensions:
  – AI Extensions of the 6G-SANDBOX NEF emulator
  – Integrating LoRaWAN in the 6G-SANDBOX connectivity infrastructure
  – Adding NWDAF Capabilities 6G-SANDBOX Testbeds
  – Adding NEF Capabilities to the 6G-SANDBOX Testbeds
  – Inclusion of Release 16 Devices
  – Location information capability
  – Integrated Sensing & Communication (ISAC or JCAS) to save energy
  – Expanding the 6G-SANDBOX testbed capabilities with additional ORAN solutions
  – Advanced Channel modeling capabilities for 6G to augment the 6G-SANDBOX testbed
  – Multilink backhaul management
  – Augmenting 6G-SANDBOX with Terahertz communication capabilities
  – RAN extensions towards 6G RAN with new xApps
  – Expand the 6G-SANDBOX with validated Digital twin performance for realistic deployments
  – Technology for use cases in Internet of Sense
  – Expanding the 6G-Sandbox testbed With Content Distribution Networks for Quality of Experience
  – Expanding 6G capabilities and/or experimenting with the 6G capabilities
  – … as well as further topics of community interest.

• 6G-SANDBOX facilities description is available at https://6g-sandbox.eu/pilot-6g-sites/
Athens Platform
Malaga platform
Oulu platform
Other important technical aspects

- Verify the list of measurement capabilities to build upon
- Requirements on virtual environments, OS
- API / Interfaces: CAPIF
- Licenses
- Hardware requirements
Thank you for your attention!!
Short break to grab lunch (10 min)

Contact: opencalls@6g-sandbox.eu

The 6G-SANDBOX project has been funded by European Commission (GA number 101096328).
QA session

Submit Questions via chat or raise your hand
Relevant Q&A will be published in the FAQ document

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