



Newsletter ISSUE 7

July – September 2024



Supporting Architectural and technological Network evolutions through an intelligent secured and twinning enabled Open eXperimentation facility.



'6G-SANDBOX has received funding from the Smart Networks and Services Joint Undertaking (SNS JU) under the European Union's Horizon Europe research and innovation programme under Grant Agreement No 101096328' START DATE: 01/01/2023



**ISSUE
HIGHLIGHTS**

- **Communication and Dissemination Activities**
- **Period Deliverables**
- **SNS JU News**

INSIDE THIS ISSUE

The 7th issue of 6G-SANDBOX Newsletter presents the project’s activities during the period July - September 2024. This issue starts with the Dissemination and Communication Activities and continues with the 6G-SANDBOX Open Call 2 Winners, the 6G-SANDBOX Toolkit and the promotes the 6G-SANDBOX external collaborations.

In numbers, the activities of 6G-SANDBOX during this 3 month period are:

- 2 Conferences
- 1 Demo Booth
- 1 White Paper
- 5 Conference Papers
- 1 signed MoU
- 1 Upcoming Forum
- 2 Upcoming Conferences
- 1 Upcoming Deliverable



Communication & Dissemination Activities

IEEE International Symposium on Personal, Indoor and Mobile Radio Communications

On the 2nd and 5th of September 2024 and during the **IEEE International Symposium on Personal, Indoor and Mobile Radio Communications**, our partner Nokia hosted a booth showcasing their telepresence platform. This demonstration featured a solution optimized for 5G networks, utilizing the cutting-edge **eXtended Reality (XR) technologies** developed within the 6G-SANDBOX project. The innovative demo earned the **Best Demo Award** at the symposium, underscoring its excellence and impact in the field. For more information you may go <https://pimrc2024.ieee-pimrc.org/>



2nd Conference on Radiocommunications and Teleinformatics

On the 11th -14th of September 2024, the 2nd **Conference on Radiocommunications and Teleinformatics** took place at Poznan University of Technology, in Poland. Robert Gdowski, Innovation Manager at **IS-Wireless**, talked about the experience of participating in 6G projects, including 6G-SANDBOX Project. The 6G-SANDBOX project was showcased as an example of IS-Wireless’s 5G/6G Lab/testbed deployment. It highlighted the project’s significance within the SNS JU, noting its role as one of the three key 6G testbed projects that provide support to researchers across Europe.

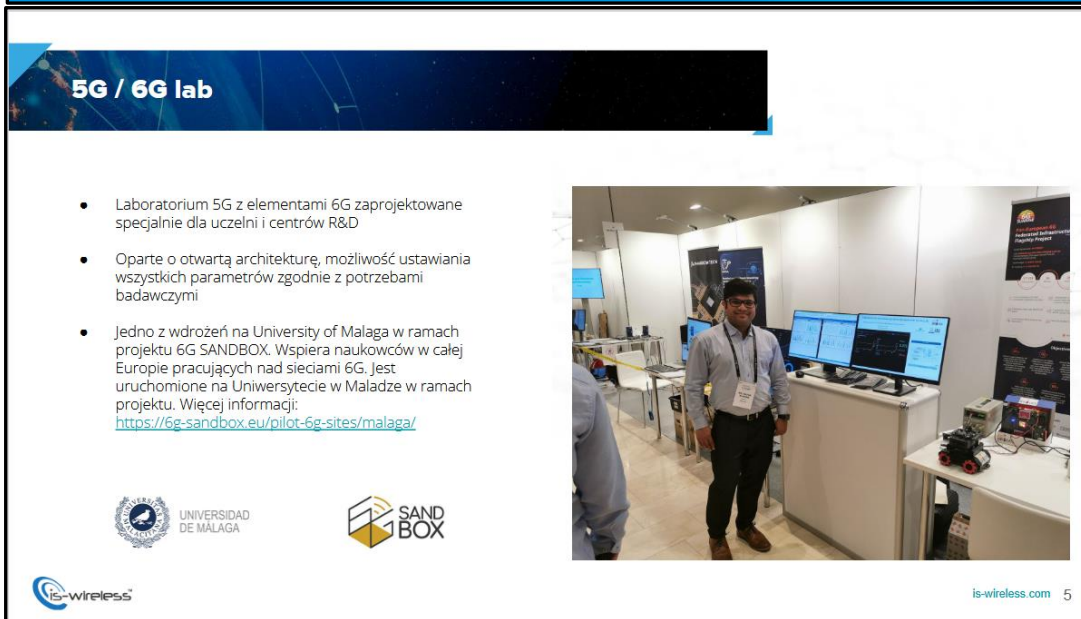


II KONFERENCJA RADIOKOMUNIKACJI I TELEINFORMATYKI
POZNAŃ 11-13 WRZEŚNIA 2024

is-wireless™


Prezentacja:
Doświadczenia z udziału w projektach 6G

ROBERT GDOWSKI
INNOVATION MANAGER



5G / 6G lab

- Laboratorium 5G z elementami 6G zaprojektowane specjalnie dla uczelni i centrów R&D
- Oparte o otwartą architekturę, możliwość ustawiania wszystkich parametrów zgodnie z potrzebami badawczymi
- Jedno z wdrożeń na University of Malaga w ramach projektu 6G SANDBOX. Wspiera naukowców w całej Europie pracujących nad sieciami 6G. Jest uruchomione na Uniwersytecie w Maladze w ramach projektu. Więcej informacji: <https://6g-sandbox.eu/pilot-6g-sites/malaga/>



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SAND BOX

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MoU with University of Malaya

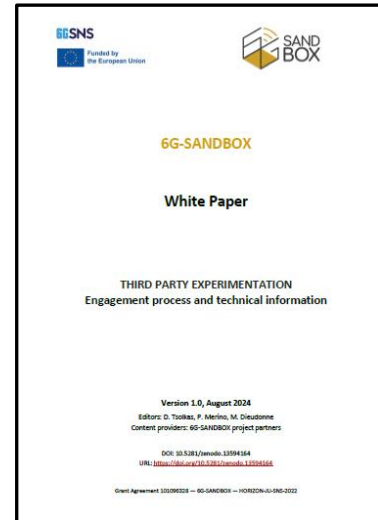
On the 17th of July 2024 and under the project leadership of Keysight, the Horizon Europe-funded 6G-SANDBOX project signed a memorandum of understanding (MoU) with [University of Malaya](#) to advance innovation in the field of 6G networks. This is the second major MoU that 6G SANDBOX has signed with an Asian organization to promote global cooperation for 6G research. 6G-SANDBOX Project signed an MoU with University of Malaya. You may read the MoU [here](#).



6G-SANDBOX White Paper

'THIRD PARTY EXPERIMENTATION: Engagement process and technical information'

In alignment with the overall project objectives, the 6G-SANDBOX facility is open to other projects of the Smart Networks and Services initiative, as well as to external organizations, including industry, SMEs, research institutions, and academia. The 6G-SANDBOX is open to any interested party that targets performing experiments or bringing & validate new technologies, by using the 6G-SANDBOX infrastructure and tools. In the white paper published you may find a valuable guide regarding **Third Party Experimentation, engagement process and technical Information** => <https://zenodo.org/records/13594165>



IEEE CAMAD 2024

6G-SANDBOX technically sponsors [IEEE CAMAD 2024](#), which will be held in Athens, Greece, on the 21st - 23rd of October 2024. Furthermore, in collaboration with other 9 projects, 6G-SANDBOX supports the Workshop titled "**Empowering 6G Networks: Workshop on Advancements in Research Infrastructures, Adaptive Frameworks, and Global Architectural Evolution.**"

In this context the following conference papers have been accepted:

1. I. Alexandropoulos, V. Rentoula, D. Fragkos, N. Gkatzios, **'An AI-assisted User-Intent 6G System for Dynamic Throughput Provision'**, in Proc. *IEEE CAMAD 2024*, October 2024
2. H. Koumaras, D. Fragkos, V. Pitsilis, G. Makropoulos, G. Lyberopoulos, E. Theodoropoulou, F. Setaki, I. Mesogiti, D. Diakakis, N. Gkatzios, C. Fragkos, V. Koumaras, **'The B5G Athens Experimentation Platform'**, in Proc. *IEEE CAMAD 2024*, October 2024
3. Dimitrios Dimopoulos, Apostolis K. Salkintzis, **'Multi-Connectivity Enhancements for the 6G era'** in Proc. *IEEE CAMAD 2024*, October 2024
4. G. Makropoulos, I. Manolopoulos, H. Koumaras, G. Lyberopoulos, F. Setaki, E. Theodoropoulou, I. Mesogiti **'Field Trial Validation of 5G-Connected UAVs towards QoS and Handover Analysis'**, Proc. *IEEE CAMAD 2024*, October 2024

For more information => <https://camad2024.ieee-camad.org/empowering-6g-networks-first-workshop-advancements-research-infrastructures-adaptive-frameworks-and>

FUSECO Forum 2024

In the context of the [12th FUSECO Forum](#), which will be held on the 7th – 8th November, in Berlin, Keysight partner will be with a Keysight/6G-SANDBOX booth.



'In its role as an internationally recognized industry-oriented event, the FUSECO Forum mirrors the lessons learned from global public and private 5G network deployments and 5G evolution research and standardization, while at the same time, we can witness increasing interest in private industrial campus network deployments and industries preparing to become ready for the 6G age.'

We will be waiting for you!

IEEE Global Communications Conference

In the context of the [IEEE GLOBECOM 2024](#), which will be held in Cape Town, South Africa, on the 8th-12th of December, the following conference paper was accepted.

- S. Rommel, P. Kulesza, A. Flizikowski, A. Kumar, M. M. Mowla, S. Ahearne, B. Cimoli, and I. T. Monro, **"5G Demonstration on an EMDC with ML-Enabled Scaling and QKD-Secured Connectivity,"** in Proc. *IEEE Globecom 2024*, Cape Town, South Africa.

OPEN CALL 2 WINNERS

As the **Open Call 3** proposals are currently being evaluated, now is a good time to explore key statistics from all Open Calls and see the innovative projects that have already been selected. You can check out the winners from the previous Open Calls and learn more about their work by visiting our webpage: [Open Call 1 Winner](#) and [Open Call 2 Winners](#) . You may also want to visit <https://6g-sandbox.eu/open-call-3/>.



6G-SANDBOX EXTERNAL COLLABORATIONS

6G-SANDBOX builds exciting collaborations with external partners and invites external parties to engage in non-funded mutual collaborations. Bring your technology to enhance the 6G-SANDBOX platforms and join forces with innovators like, [Vicinity Technologies](#), [WAN-AI](#), [Virginia Diodes Inc.](#) and [LITEON Technology](#), who have already seized this opportunity.

Learn more about the groundbreaking technologies they are contributing to 6G-SANDBOX in the link below <https://6g-sandbox.eu/established-collaborations/> and you may also read: <https://6g-sandbox.eu/experimenting/> and <https://6g-sandbox.eu/contribute/>.

6G-SANDBOX TOOLKIT

In the latest **EuCNC 2024 & 6G Summit 2024**, the **6G-SANDBOX toolkit** was announced. This toolkit is a software package that can be installed in an experimentation platform to enable the provisioning of “on demand testbeds”, referred within the 6G-SANDBOX project as Trial Networks. Trial Networks (TN) are fully manageable, configurable and controlled end-to-end networks that combine 5G/6G hardware and software while they utilize additional tools for automated experiments. Experimenters can create TNs and treat them as complete end to end testbeds by selecting and combining components hosted in a the 6G-SANDBOX software library, called 6G-library. More info on how the components are structured in the 6G-library is available in the project’s [GitHub](#).



For more information you may go to => <https://6g-sandbox.eu/6g-sandbox-toolkit/>

UPCOMING DELIVERABLES

D2.2 Final overall Framework Design and requirements– December 2024 - Public

For more information visit our website: <https://6g-sandbox.eu/dissemination/deliverables/>

SNS JU NEWSFLASH/NEWSLETTER

- SNS JU Newsflash (July 2024): <https://smart-networks.europa.eu/sns-ju-july-2024-newsflash/>
- SNS JU Newsflash (August 2024): <https://smart-networks.europa.eu/sns-ju-august-2024-newsflash/>
- SNS JU Newsflash (September 2024): <https://smart-networks.europa.eu/sns-ju-september-2024-newsflash/>
- SNSJU Newsletter (August 2024): <https://smart-networks.europa.eu/sns-ju-august-2024-newsletter/>



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Call: HORIZON-JU-SNS-2022

Topic: HORIZON-JU-SNS-2022-STREAM-C-01-01

Type of action: HORIZON-JU-RIA

Duration: 36 Months

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