**6G-SHINE defining architectural enablers for in-X subnetwork and their integration in the 6G 'network of networks'**

In-X subnetworks represent a major architectural innovation in wireless networks. Our latest deliverable defines their architectural components, proposes mechanisms for dynamic orchestration of communication and computational resources, and outlines methods to integrate subnetworks with a parent 6G network, and edge and cloud infrastructures. Such architectural design is the keystone for unleashing the potential of in-X subnetworks, bringing wireless to a new level of pervasiveness.

Check out deliverable D2.4 for all the details!

6G-SHINE studies radio propagation characteristics for short-range in-X scenarios
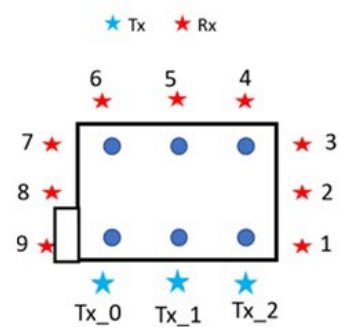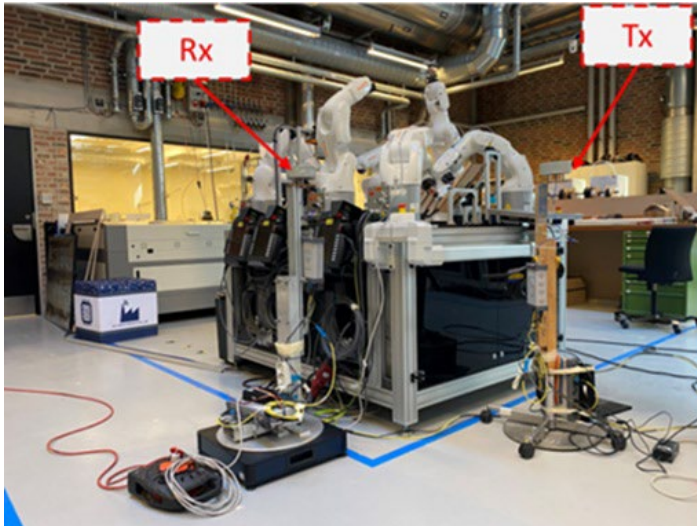
With reference to the defined use cases for in-X subnetworks, 6G-SHINE has studied radio propagation characteristics for industrial, consumer and in-vehicle scenarios, considering diverse spectra (sub-6GHz, FR2, FR3, sub-THz). Our measurement campaign, findings and modeling assumptions (also in relation to 3GPP channel models) are included in deliverable D2.3.

Check out deliverable D2.3 for all the details!

Joint 6G-SHINE/SUPERIOT/TERRAMETA webinar on Sustainable Wireless Design

On November 29, we have held a webinar on Sustainable Wireless Design, organized together with SUPERIOT and TERRAMETA projects. The speakers were Luis Pessoa (INESC), Meng Li (6G-SHINE) and Yasser Qaragoez (KU Leuven). Presentations focused on advanced technologies such as reconfigurable intelligent surfaces and transceivers operating over sub-THz bands, and their sustainable design. A novel modulation enabling energy harvesting for low power sensors was also presented. Access the webinar recording below

Watch Now - YouTube
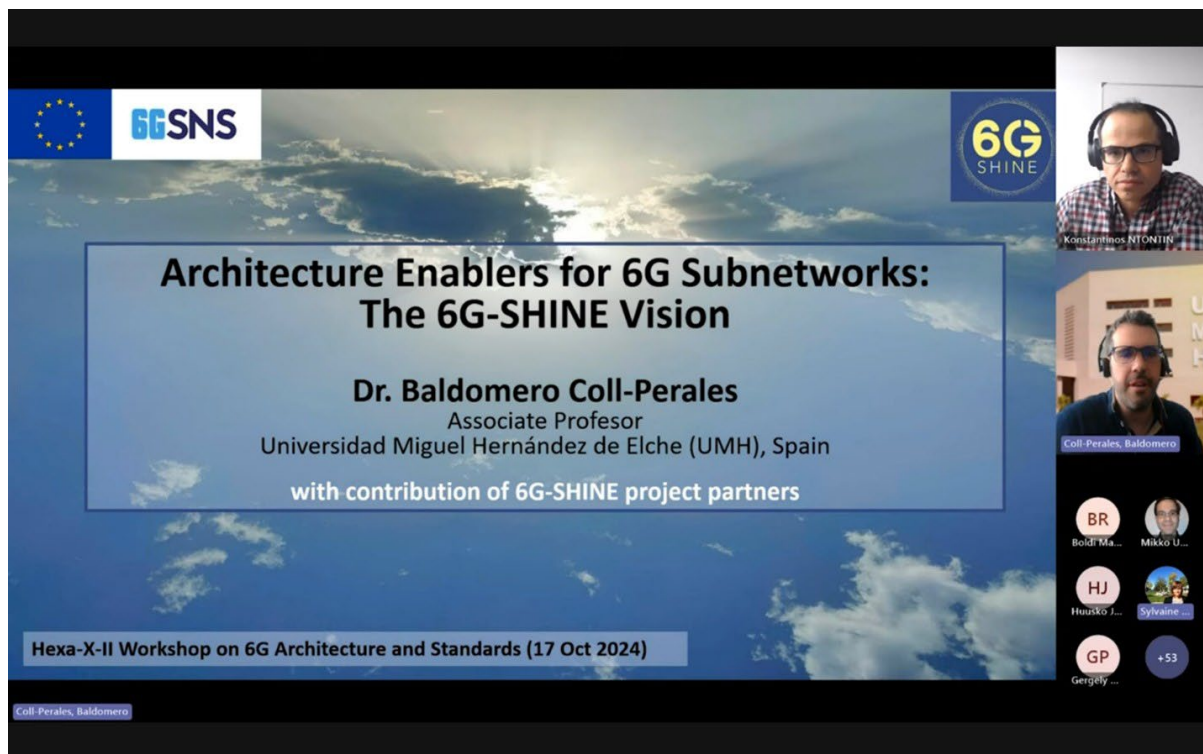
Presentation on 6G architecture enablers at the Hexa-X-II workshop on Archtiecture and Standards

On October 17, Baldomero Coll-Perales, University Miguel Hernandez de Elche, presented the 6G-SHINE vision for architecture enablers for 6G subnetworks at the Hexa-X-II workshop on Architecture and Standards.

Watch the presentation: 6G Architecture Enablers – Insights from 6G-SHINE at the Hexa-X-II Workshop

Watch Now - YouTube

4th 6G-SHINE consortium meeting at Aalborg University, Copenhagen campus

The fourth 6G-SHINE face-to-face plenary meeting took place on September 9-11 at Aalborg University, Copenhagen campus!
We have reached a pivotal stage in the project, with consumer, industrial, and in-

vehicle use cases for in-X subnetworks now defined, along with a preliminary design of the technology components needed to meet their demanding communication requirements. Now, it is time to consolidate our design and move forward with the proof-of-concept implementation of selected technology components.

This consortium meeting provided an excellent opportunity to steer the research directions for the project's final year and engage in deep, productive discussions. We're excited for the productive months ahead and ready to shine!

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