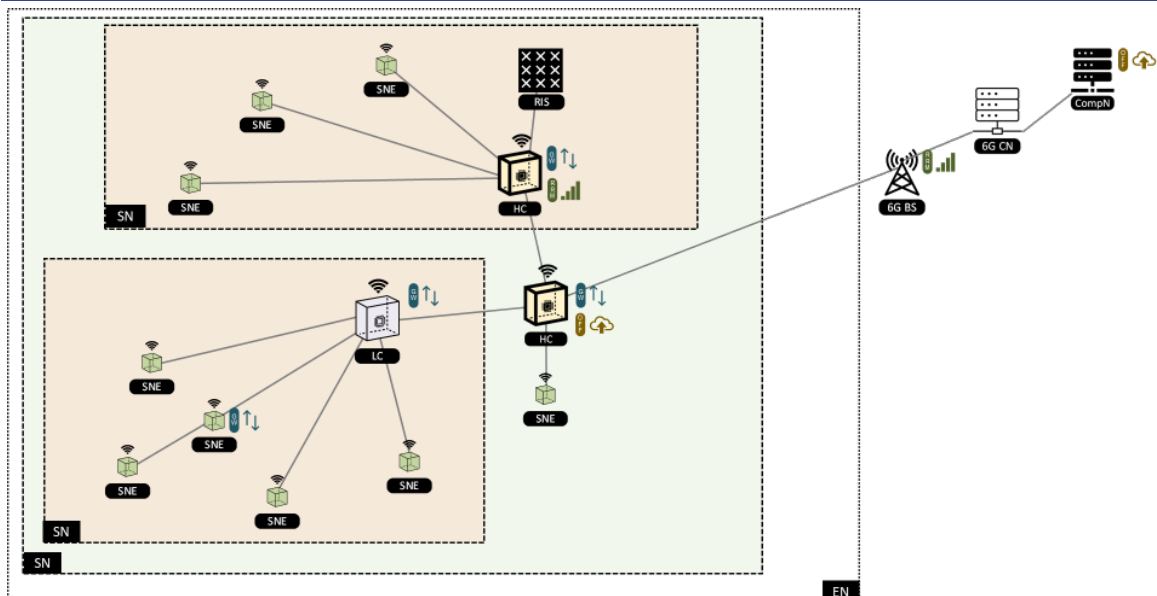




6G-SHINE

6G Short range extreme
communication IN Entities

Newsletter No. 4

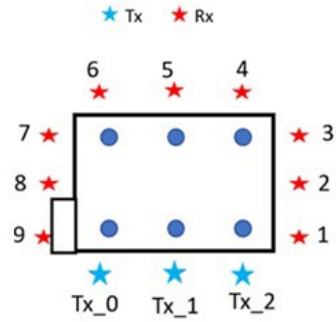
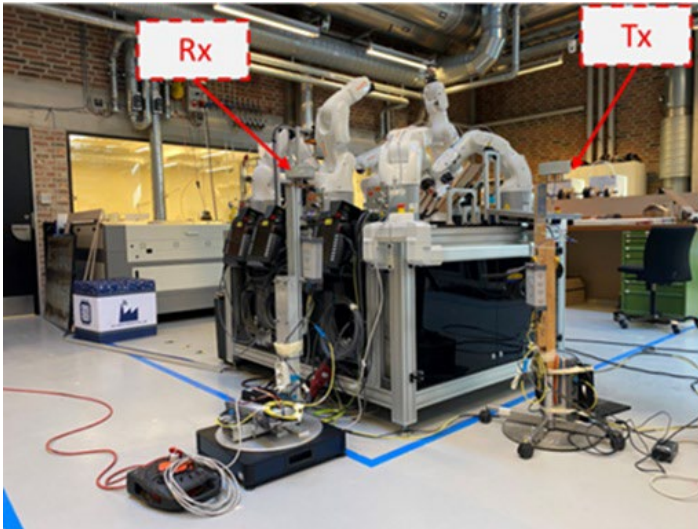


6G-SHINE defining architectural enablers for in-X subnetwork and their integration in the 6G ‘network of networks’

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 modelling assumptions (also in relation to 3GPP channel models) are included in deliverable D2.3.

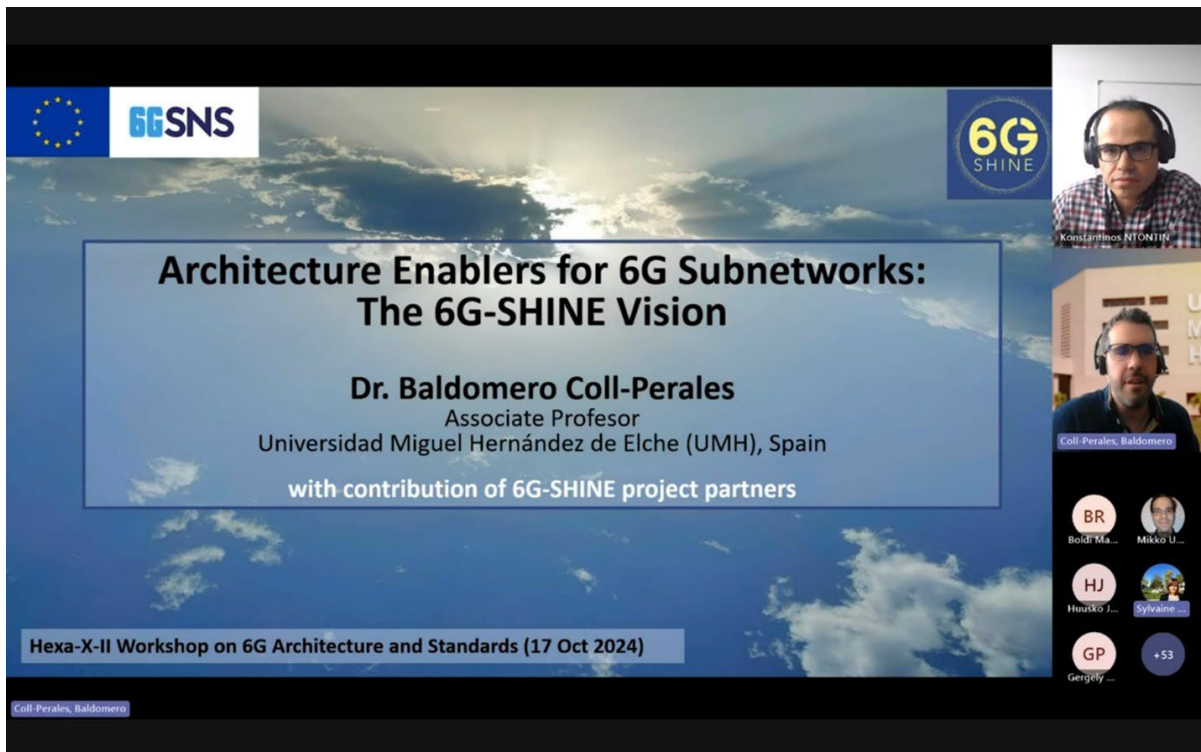
Check out deliverable D2.3 for all the details!



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 Qaragoz (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 Architecture 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](#)

Special Session organized by TERRAMETA, TIMES, and 6G-SHINE at IEEE Conference on Standards for Communications and Networking (CSCN), November 27, 2024



We have teamed up with SNS TERRAMETA and TIMES projects for a special session on “Key enablers for integrated sensing and communications in industrial environments”. The session included two invited talks:

“Integrated Sensing and Communications in 6G: A Standardization Outlook”

by Mario Castaneda (Huawei, Germany) and “Architectural Landscape for ISAC Enablement in 6G” by Filipe Conceição (InterDigital, UK), followed by a panel discussion moderated by Malte Schellmann (Huawei, Germany) with Praveen Naidu Vummadisetty (University of Luxembourg, Luxembourg) and Konstantinos Manolakis (Nokia, Germany).

The session highlighted the potential of ISAC in industrial environments, with an outlook on standardization. The session was highly engaging, bringing together participants from industry and academia.

IEEE CSCN- Special Sessions



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!

6G-SHINE Project

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6G SNS

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