

24

36



# **Stay** Connected



https://nancy-project.eu/



in NANCY SNS JU Project



X @NANCY\_snsju



NANCY SNS JU Project

Project Coordinator: Prof. Panagiotis Sarigiannidis, University of Western Macedonia

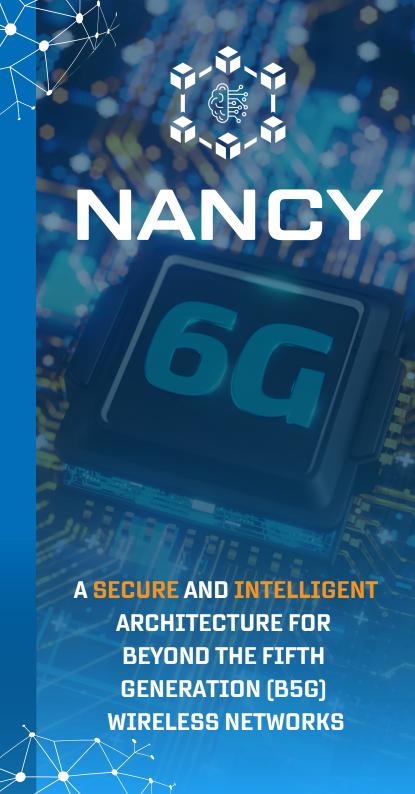






NANCY project has received funding from the Smart Networks and Services Joint Undertaking (SNS JU) under the European Union's Horizon Europe research and innovation programme under Grant Agreement No 101096456.

Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the SNS JU. Neither the European Union nor the granting authority can be held responsible for them.



### **Our Vision**

NANCY aims to introduce a secure and intelligent architecture for beyond the fifth generation (B5G) wireless networks. By leveraging Artificial Intelligence and Blockchain, NANCY aims to enable secure and intelligent resource management, flexible networking, and orchestration. In this direction, novel mechanisms and techniques will be integrated, including:

- device-to-device connectivity
- mesh networking
- relay-based communications
- medium access protocols
- mobility management schemes
- resource allocation methods



Our ambition is to meet the requirements of the B5G wireless networks by proposing an Al-based B-RAN architecture that is built upon SDN and MEC principles by:

- specifying the enabling technologies lack<
- designing new technologies and concepts <
  - theoretically modeling and assessing < the performance
- optimizing and validating the architecture < through 5 testbeds

## Our objectives



To design a novel Radio Access Network that supports dynamic scalability, high-security and privacy.



To transform networks beyond 5G to intelligent platforms integrating ultra-reliable connectivity and high-energy efficiency.



To provide "almost-zero latency" and high-computational capabilities at the edge.

## Demonstration

NANCY will deploy testbeds:

indoor lab testbeds that will be used for modelling B-RAN and experimentally verifying the theoretical framework.
(Greece & Italy)

large-scale outdoor testbeds to assess and demonstrate the NANCY solution in diverse and challenging scenarios, as well as to verify the commercial feasibility of the project's technologies.

(Spain, Greece, Italy)

#### **Partners**

