



# SAFE-6G

## A Smart and Adaptive Framework for Enhancing Trust in 6G Networks

Dr. Harilaos Koumaras  
Technical Manager  
NCSR Demokritos  
Head of FRONT Research Group

 Co-funded by  
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**6G SNS**



**FUTURE  
COMMUNICATION  
NETWORKS  
RESEARCH GROUP**

# SAFE-6G consortium

- Consortium: 13 partners from 5 countries
  - ▶ 4 large industries (TID, THA, SHG, ATOS)
  - ▶ 6 SMEs (IQBT, INF, EBO, 8BELLS, CMC, IMM)
  - ▶ 2 Universities (NSCRD, UPV)
  - ▶ 1 Research institute (UNIWA)
- Duration: 36 months
- Research and Innovation Action(RIA)
- Call ID & Topic:
  - ▶ HORIZON-JU-SNS-2023 (HORIZON-JU-SNS-2023)
  - ▶ HORIZON-JU-SNS-2023-STREAM-B-01-04

# 6G SNS

- Financial Figures
  - ▶ Total Budget: 4.325.270,00 €
  - ▶ Total funding: 3.998.540,50 €



WWW.FREEWORLDMAPS.NET

# SAFE-6G consortium

Large Industries



Telecom operator

THALES

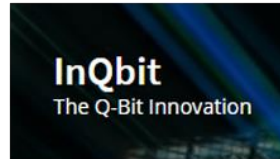
(Security) vendor

Atos



IT and cloud providers

SMEs



INFO  
LYSIS



Cumucore

IMMERSION  
IMAGINATION, INTERACTION ...

Academia

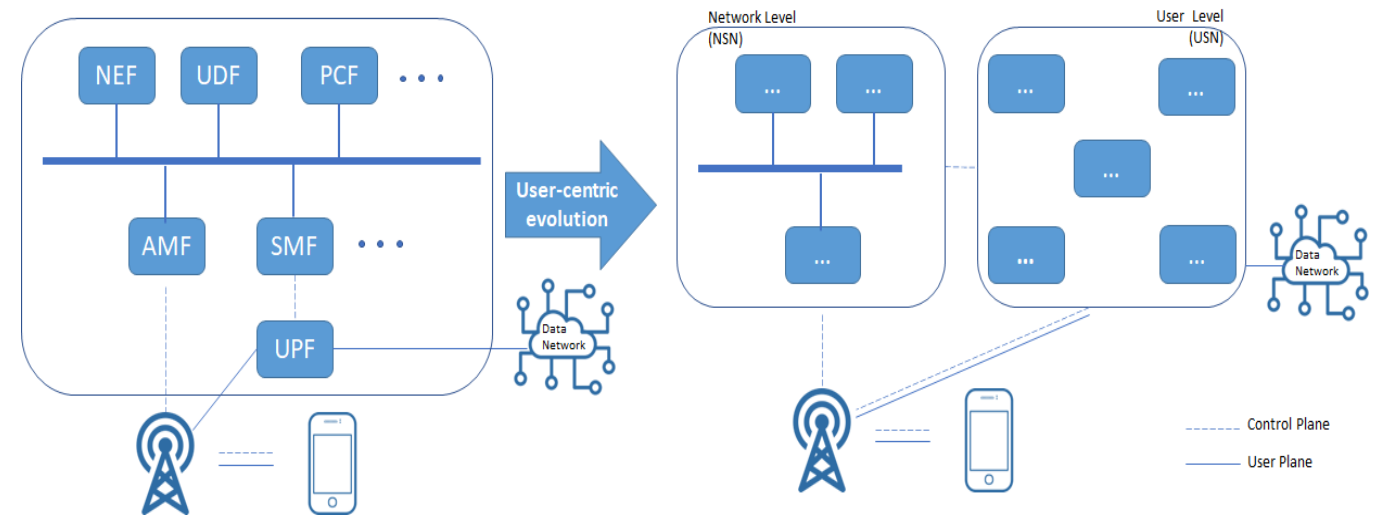


UNIVERSITAT  
POLITÈCNICA  
DE VALÈNCIA



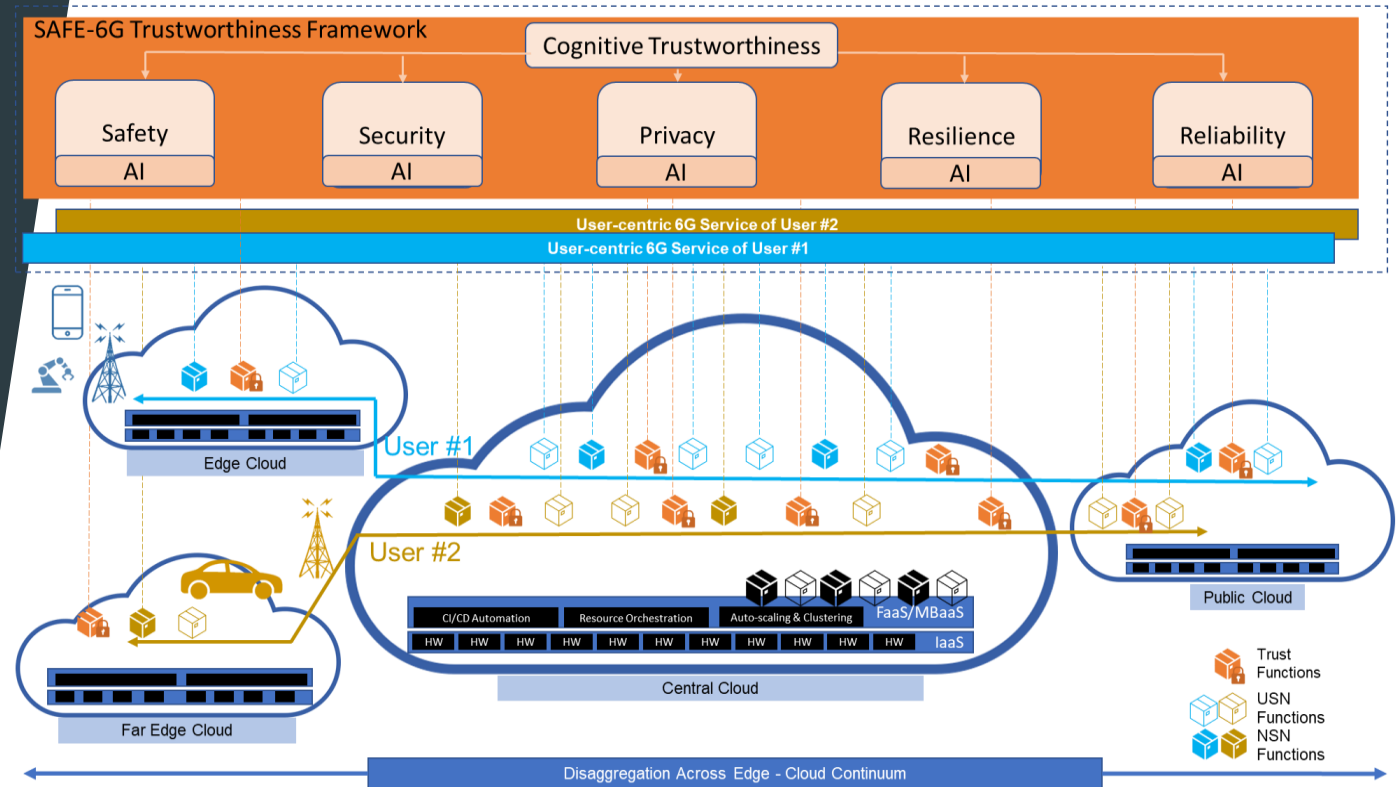
# Current trend of User-Centric evolution

- ▶ To realise the user-centric 6G network, architectural redesign of the core network is required
- ▶ Shift from “Network Function-focus” to “user-focus”
  - ▶ Users to participate in network service creation and operation
  - ▶ Users have full control over data ownership
- ▶ The network architecture is envisioned to be separated into user service nodes (USN) and network service nodes (NSN)



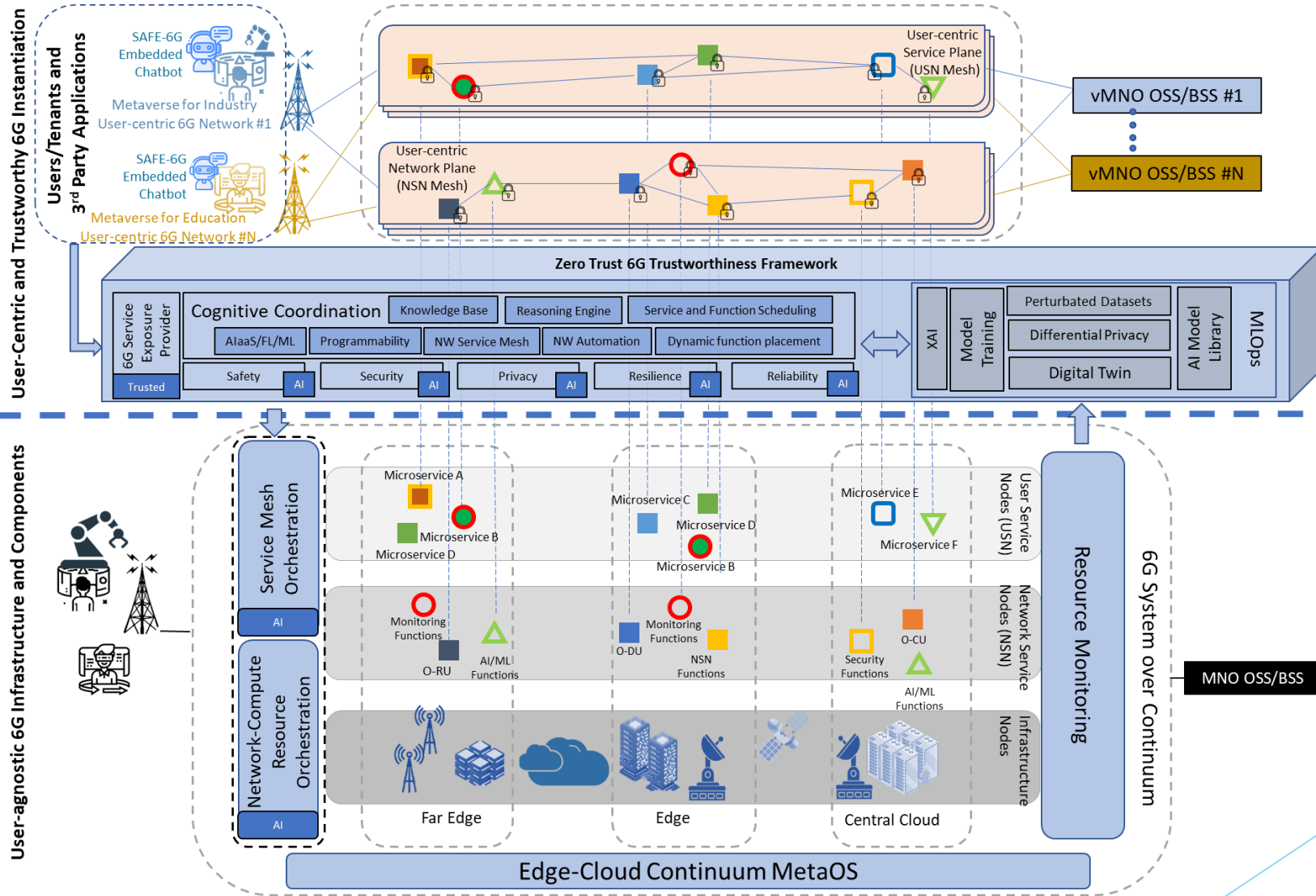
# SAFE-6G Vision

- ▶ On top of the open and distributed USN/NSN-based 6G core over the edge-cloud continuum
- ▶ SAFE-6G proposes an holistic research approach aimed to design, develop and validate a 6G-ready native trustworthiness framework by enabling user-centric safety, security, privacy, resilience, reliability functions and utilizing (X)AI/ML techniques in order to cognitively coordinate and balance these functions with scope to optimize the Level of Trust (LoT) that each user/tenant/human-role specifies.



**SAFE-6G interpolates** within each user's USN and NSN nodes the aforementioned five user-centric (**trust**) functions that are mandated by the role and the LoT of each human/user/tenant **in relevance with the requirements set by diversified applications and the respective technical and business domains**

# SAFE-6G Overall Architecture



# Thank you

▶ Questions?

## Dr. Harilaos Koumaras

koumaras@iit.Demokritos.gr

Technical Manager of SAFE-6G  
Athens Platform Leader of 6G-SANDOBX/SUNRISE-6G  
Head of FRONT Research Group  
NCSR Demokritos

## Javier Garcia Rodrigo

javier.garciarodrigo@telefonica.com

Project Coordinator of SAFE-6G  
Innovation Manager  
TELEFONICA

