

## Welcome to the PREDICT-6G newsletter!

We foresee to change the networking paradigm by creating a deterministic 6G network:  
reliable, time sensitive and predictable.  
How are we doing it? Keep reading!

# Deterministic services for critical communications

By Péter Szilágyi, Technical Manager



Péter Szilágyi, Technical Manager of PREDICT-6G, delve into one of the use cases of the project: **Deterministic services for critical communications**. This use case is being developed, tested and validated at Nokia Open Lab.

Let's start for the basics - what is a critical communication? "A communication may be considered critical if the functional capability, operational capacity, and safety of the communication endpoints and their implemented solution depend on the communication service's availability, reliability, and performance. In such scenarios, the communication and

thus the underlying network play an inseparable role in realizing an end-to-end solution", he explains.

[Read the full article](#)

## DEMONSTRATIONS



### Smart Factory (Gestamp and Ericsson)

Marc Mollà, Chief Solution Architect at [Ericsson](#) and a member of PREDICT-6G, led the “**Smart Factory**” demo. This demonstration shows the application of Time Sensitive Networking (TSN) capabilities in 3GPP networks, with a specific focus on a [Gestamp](#) -inspired smart factory use case. The objective is to move from a wired configuration to a wireless LAN scenario using a 5G network, emphasising the challenges of interconnecting numerous mobile components in a factory environment.

[Watch the DEMO](#)



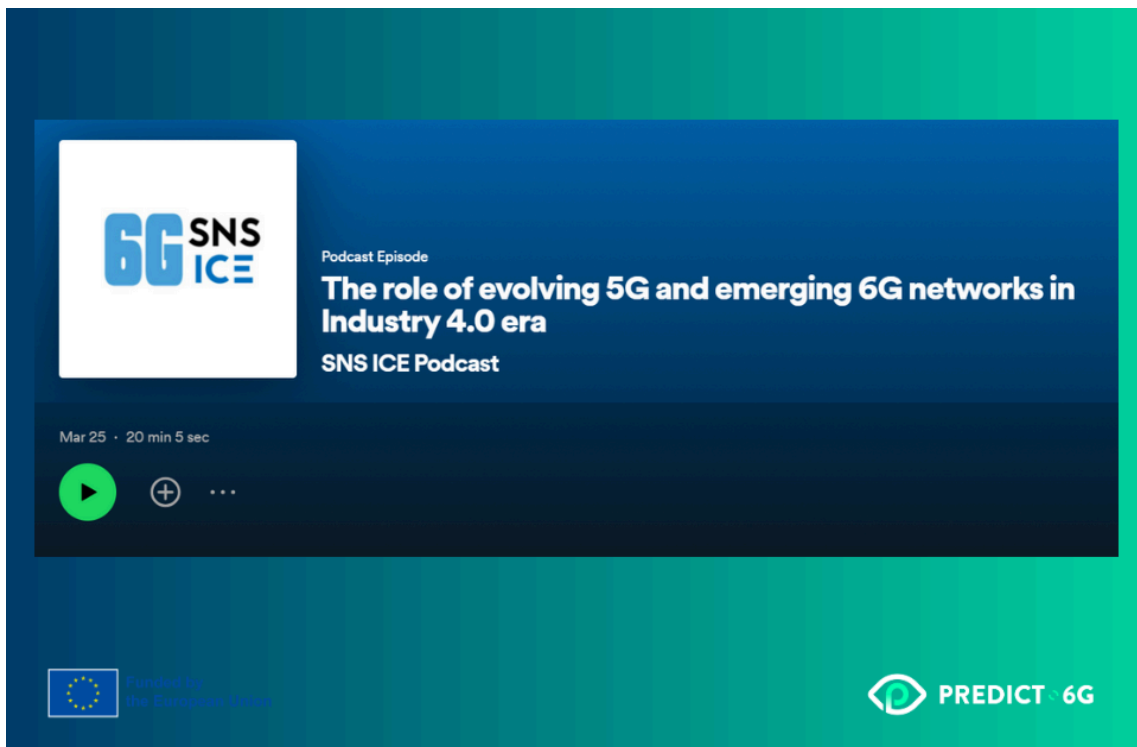
## Target Wake Time (Politecnico di Torino)

Claudio Casetti, Full Professor at [Politecnico di Torino](#) and a researcher in the PREDICT-6G consortium led the “**Target Wake Time**” demo. This demonstration shows the evolution of Wi-Fi networks with the introduction of Target Wake Time (TWT), a feature that transforms the way devices communicate within a network. Traditionally, Wi-Fi networks were based on CSMA/CA principles, which allowed efficient collision resolution but introduced randomness in channel access and transmission timing.

[Watch the DEMO](#)

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## SCIENTIFIC CONTRIBUTIONS



## 6G SNS ICE Podcast: The role of evolving 5G and emerging 6G networks in Industry 4.0 era

Following the publication of the 5G-PPP Technology Board whitepaper on *[Innovation Trends in I4.0 enabled by 5G and Beyond Networks](#)*, the [6G SNS ICE project](#) interviewed **Manuel Lorenzo**, Head of Technology & Innovation at [Ericsson Spain](#), one of the PREDICT-6G partners, and **editor and coordinator of this 5G-PPP whitepaper**, for the latest episode of its podcast.

[Listen to the podcast](#)



Upcoming event

6G SNS

# PREDICT-6G presents at the Architecture WG

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## PREDICT-6G presents at the Architecture WG

Continuing PREDICT-6G's ambition to contribute to the different SNS-related Working Groups, **José Luis Cárcel**, R&D Engineer at the Smart Networks & Services unit of Eviden and member of the project, **delivered a presentation in the last meeting of the Architecture WG**, held on the 1 of March 2024. The presentation provided an overview of PREDICT-6G System Architecture.

[Discover more](#)

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## INTERNATIONAL EVENTS



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EVENT

## PREDICT-6G demonstration at MWC Barcelona 2024



## PREDICT-6G demonstration at MWC Barcelona 2024

MWC Barcelona, the largest and most influential event in the connectivity sector, was held on the 26-29 February 2024. It brought together more than 28,000 organisations in a total of over 2,700 exhibitors, one of which was **PREDICT-6G consortium member InterDigital**.

Dr. Sebastian Robitzsch, responsible for the standardisation of PREDICT-6G, showed our demo to the visitors of the MWC at the InterDigital space called "At Work: Sensing-Enabled 6G Mobile Networks".

[Discover more](#)

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# INTERNATIONAL DAY OF WOMEN AND GIRLS IN SCIENCE

Interview with

Carla Fabiana Chiasserini,  
Politecnico di Torino



## International Day of Women and Girls in Science 2024

The 11 February marks the [International Day of Women and Girls in Science](#). A milestone adopted in 2013 by the UN General Assembly to recognise that “**full and equal access to and participation in science, technology and innovation for women and girls** of all ages is imperative for achieving gender equality and the empowerment of women and girls”.

To celebrate, and also vindicate this day, **PREDICT-6G** interviewed [Carla Fabiana Chiasserini](#), Full Professor at [Politecnico di Torino](#) and our consortium partner.

[Read her interview](#)

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## UPCOMING EVENTS



## PREDICT-6G on Standards Requirements

PREDICT-6G is one of the projects invited to participate in the **IAFA#4.2 Interim Steps: 6G Standardisation Requirements** that will take place on the **9 of April 2024**. This is the second of a three-event series on pre-standardisation organised by SNS OPS, as part of its Impact Assessment and Facilitation Actions (IAFAs) initiative, in collaboration with ETSI and HSBooster.eu.

[Discover more](#)



## PREDICT-6G will be at the WCNC 2024

The **IEEE Wireless Communications and Networking Conference (WCNC)** will take place on the **21-24 of April 2024** in Dubai, United Arab Emirates. PREDICT-6G will attend the conference, which theme in 2024 is “Wireless Communications for Growing Opportunities”. Its contributions will mostly focus on 6G architecture.

[Discover more](#)



## PREDICT-6G will be at the EuCNC 2024

The **2024 EuCNC & 6G Summit** will take place on the **3-6 of June** in Antwerp, Belgium. **PREDICT-6G returns for the second consecutive year**, to repeat the successes of the 2023 edition and establish itself as one of the leading projects in 6G. PREDICT-6G will be



## PREDICT-6G will be at the ICC 2024

In 2024, the **IEEE International Conference on Communications (ICC)** will take place on the **9 -13 of June** in Denver, United States. PREDICT-6G will attend for the second consecutive year to the conference. Professor Carla F. Chiasserini will present the paper



present in two workshops, both in the organisational part and in the presentations slots.

“Generosity Pays Off: A Game-Theoretic Study of Cooperation in Decentralized Learning”.

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