



# **COREnext Insights: Pioneering Advances in Sustainable and Connected Technologies**

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## **Welcome to the Autumn Period of the COREnext Journey!**

5th edition of COREnext Newsletter brings exciting updates, including research on modular trusted environments, a white paper on digital trust, and insights into next-gen RF and SOI technology in "Disruptive TRX Design for D-band."

Get to know Patrick Pype, leader of WP7, and catch highlights from COREnext's recent events, including European Microwave Week and Nokia Bell Labs. We also feature COREnext's commitment to the UN SDGs and invite you to test your cybersecurity knowledge in our interactive quiz.

Dive in to see how COREnext is advancing resilient, sustainable technology!

## **COREnext News**



## COREnext and The UN Sustainable Development Goals!

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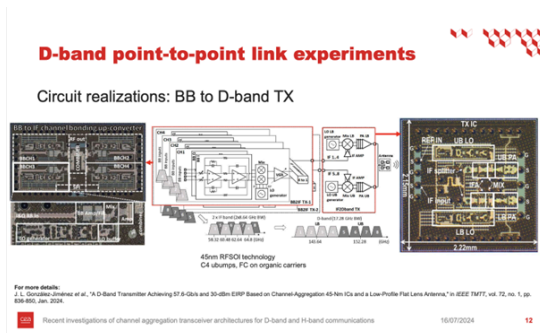
The COREnext project is actively advancing two key UN Sustainable Development Goals: SDG 9 (Industry, Innovation, and Infrastructure) and SDG 11 (Sustainable Cities and Communities). Through innovative digital components and forward-thinking architecture, COREnext is helping to build resilient, energy-efficient infrastructure and cities for a sustainable future.

[Read more](#)



### How Much Do You Know about Cybersecurity?

Join the [COREnext](#) Quiz for **European Cybersecurity Month!** Ready to take part? It takes only 2 min. to see how well you understand the threats and best practices of the digital world!



## [COREnext Is Sharing Knowledge at Nokia Bell Labs](#)

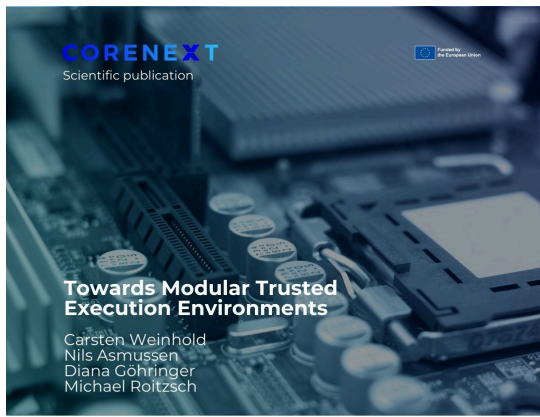
This summer, Nokia Bell Labs hosted an internal seminar that brought together around 40 participants, creating an engaging platform for knowledge sharing and collaboration. One of the highlights of the seminar was a presentation by José Luis González Jiménez from CEA-Leti, who delivered an insightful talk.

[Read more](#)

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## COREnext In Science Hub

Welcome to the [Scientific Publications section of COREnext](#), a dynamic hub for the scientific and literature stemming from our European project.

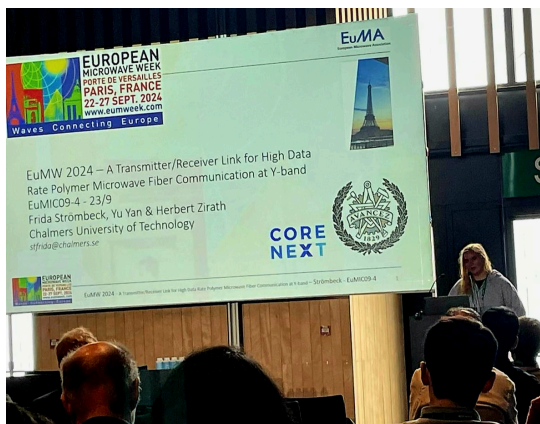
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#COREnextInScience

## [Exploring Modular Trusted Execution Environments](#)

At the SysTEX workshop, researchers Carsten Weinhold, Diana Göhringer, and COREnext partners unveiled a modular design for Trusted Execution Environments (TEEs) on the M3 platform. This approach embeds TEE support into system architecture, aiming to enhance security and adaptability in computing environments.

[Discover more](#)



## [Sneak Peek into Next-Gen Communication Technology!](#)

At the prestigious 27th European Microwave Week (EuMW 2024) in Paris, Frida Strombeck unveiled her research on high-speed polymer microwave fiber communication technology. As part of the COREnext project, her presentation delved into innovative findings from the latest scientific paper. Stay tuned to discover how this could revolutionise the future of connectivity!

[Read more](#)

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#COREnextInScience

## [Unpacking "Disruptive TRX Design For D-band"!](#)

With the rising demand for fast, seamless communication, the book "Disruptive TRX Design for D-band" explores advancements in RF (Radio Frequency) and SOI (Silicon on Insulator) technology that are shaping 5G and 6G networks. Covering essential topics like device and substrate characterisation, advanced packaging, power amplification, beamforming, and radar systems, this book provides a thorough look at innovations that will transform both consumer and industrial electronics. Intrigued?

[Dive into the full article](#)



## [Dive into the Future of Digitalisation with Our Latest White Paper!](#)

Uncover how trust and security are shaping the evolution of Europe's dominance in high-end consumer goods. Discover how the fusion of connectivity and sensing technologies is revolutionising product value and seamlessly weaving these innovations into consumers' digital lives.



Download our White Paper

# Learn about COREnext People!

The graphic has a blue background with light blue geometric shapes. In the top left, there is a small European Union flag icon and the text 'Funded by the European Union'. On the left, a circular portrait of Patrick Pype, a man with glasses and a goatee, is shown. To the right of the portrait, the text 'Patrick Pype' is in bold, followed by 'Director European Affairs'. Below this is the NXP logo and the Hungarian flag. At the bottom left, a light blue rounded rectangle contains the text 'corenext.eu'. At the bottom right, the text 'CORENEXT' is in large blue letters, with 'IN THE SPOTLIGHT' in smaller blue letters below it. A grid of small blue squares is visible on the right side.

Funded by the European Union

**Patrick Pype**  
Director European Affairs

NXP 

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**CORENEXT**  
IN THE SPOTLIGHT

## [#COREnextInTheSpotlight: Meet Patrick Pype, WP7 Leader!](#)

We're introducing Patrick Pype, leader of Work Package 7 (Computation-Communication Platform Integration Roadmap) in the COREnext project. With a distinguished career across IMEC, Coware, Philips, and NXP, Patrick now leads a €50M collaboration uniting 150 experts from 69 partners across 15 European countries.

[Find out more](#)

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**CORENEXT** is an EU-funded initiative that will bring together expert stakeholders in future mobile networks and integrate their perspectives in key focus areas like digital, analogue, and integrated solutions for computing, communication, and sensing.

[Learn more](#)



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