

In our rapidly evolving digital landscape, it is crucial to establish a reliable, trustworthy,

Why CONFIDENTIAL6G?

and resilient infrastructure for the next generation of wireless connectivity: CONFIDENTIAL6G aims to create an interconnected continuum of diverse environments, seamlessly integrating networks and IT systems on a global scale. The ultimate goal? Enabling the flourishing of new and transformative digital services that will shape our future. CONFIDENTIAL6G recognizes that confidentiality is paramount in this interconnected

world. It is dedicated to developing a comprehensive suite of tools, libraries, mechanisms, and architectural blueprints that prioritize confidentiality within the realm of 6G. These advancements will include cryptographic enablers, essential building blocks for constructing more sophisticated software components.

Furthermore, CONFIDENTIAL6G will pave the way for secure platforms and applications, ensuring the preservation of privacy during computation and network communication processes. This will encompass cutting-edge techniques such as secure multi-party computation and federated AI/ML orchestration.

To fortify the design of future systems, CONFIDENTIAL6G will harness state-of-the-art

cryptographic protocols that are resistant to quantum computing threats. By conducting thorough research and providing formal security proofs, this initiative guarantees that confidentiality remains at the forefront of 6G development.

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CONFIDENTIAL6G TEAM

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CONFIDENTIAL6G TEAM PROJECT STRUCTURE The CONFIDENTIAL6G consortium CONFIDENTIAL6G is structured around 6 WPs and has a duration of 36 months.

includes 13 partners from 10 countries: nine EU nations (Austria, Estonia, Germany, Greece, Ireland, France, Spain, Netherlands, Finland) and one non-EU nation (Serbia, as an associated country).

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interactions and dependencies between the WPs.

Take a deeper look at the PERT chart

which provides an overview of the main

PROJECT STRUCTURE

USE CASES To ensure the effective integration of all components in the CONFIDENTIAL6G unified platform, a series of small-scale tests will be conducted in three specific use cases. These use cases represent real-life scenarios where the CONFIDENTIAL6G platform will be utilized. By testing the platform in these diverse use cases, potential issues or limitations can be identified and addressed. After the validation process, we will proceed to deploy and demonstrate the platform at pilot sites. During this phase, we will evaluate the platform's

performance and effectiveness based on the expected results. We will

will actively work to address and mitigate any faults that we encounter.

carefully assess how well it functions in various scenarios and under different conditions. This evaluation will help us understand the positive results that the platform delivers, as well as any limitations or malfunctions that may occur. We

USE CASE 1 The first use case implements a platform for secure and trackable data sharing

organizations. The main goal is to enable predictive maintenance, driven by AI/ML, on the top of shared data. Learn More

The second use-case will provide enablement for confidential computing in the form of

between aviation companies, manufacturers, regulation bodies and other

a defined platform that can be applied in the telecom clouds.

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USE CASE 2

USE CASE 3

The third use case will provide mission-critical services in the context of secure Vehicle to Infrastructure (V2I) communications, and OTA (over-the-air) vehicle system updates, with distributed learning.

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Private Partnership focused on fostering industrial leadership in Europe in 5G and 6G networks and services. Its primary objective is to support and develop projects that contribute to research and innovation (R&I) in this field and establish a roadmap for deployment. By involving European stakeholders and facilitating international

The European Smart Networks and Services Joint Undertaking (SNS JU) is a Public-

cooperation, the SNS JU aims to drive advancements in 6G initiatives. In January 2023, the SNS JU initiated the first phase of its 6G projects, including CONFIDENTIAL6G. The project was presented by projects coordinator Vera Stavroulaki during a series of webinars called Lunchtime Webinars organized by the SNS JU. To access the presentation, please refer to the links below.



framework for 6G cloud and edge technology and improving communication security through scientific breakthroughs in post-quantum cryptography, confidential computing, and confidential communication.

Learn More Website is online!

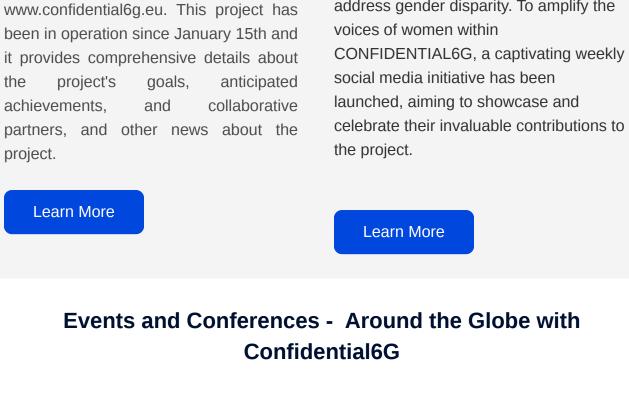
Releases Website to the **Public** Discover the latest updates regarding the CONFIDENTIAL6G project by visiting

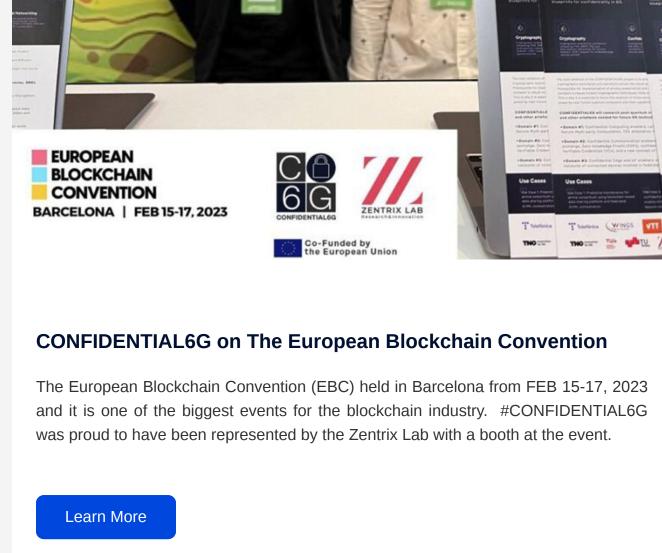
Confidential6g Officially

Information on 6G and its Advancements Now Accessible to the Public

project. Learn More

CONFIDENTIAL6G CAMPAIGN: Empowering Women in STEM – Join the **C6G Campaign** CONFIDENTIAL6G is actively working to address gender disparity. To amplify the voices of women within CONFIDENTIAL6G, a captivating weekly social media initiative has been launched, aiming to showcase and



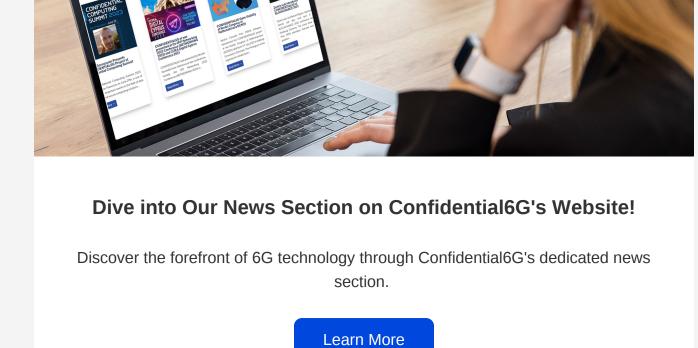


Dr Nenad Gligoric Dr Madhusanka Liyanage Mr Drasko Draskovic (Zentrix Lab) (University College Dublin) (Nokia)

ETSI Workshop 2023 Nokia, Zentrix, University College Dublin participated at the ETSI (European

Antipolis, France, in the beginning of February 2023. Learn More

Telecommunications Standards Institute) Conference, which took place in Sophia



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authority can be held responsible for them.

with the latest developments in 6G technology! Stay tuned!

Stay updated on all our latest news, developments, research and general information regarding the CONFIDENTIAL6G project.



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