



ACROSS

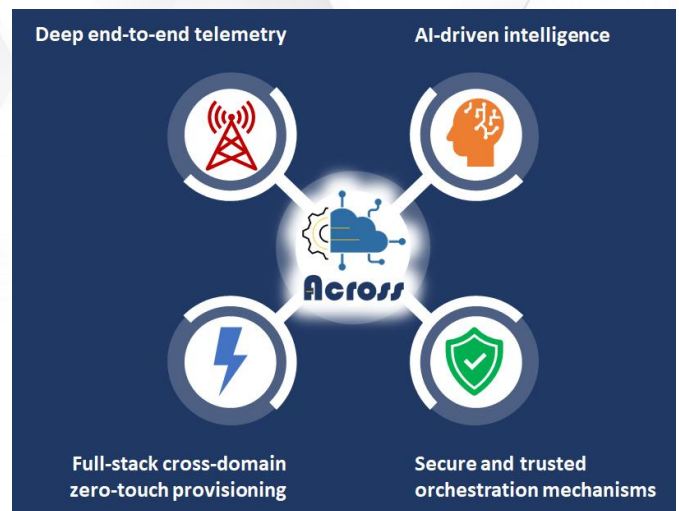
Automated zero-touch cross-layer provisioning
framework for 5G and beyond vertical services

Newsletter #1

May 2023

ACROSS: Pioneering the future of 5G and Beyond

Welcome to our first newsletter about **ACROSS** (Automated zero-touch cross-layer provisioning framework for 5G and beyond vertical services). This ambitious 3-year Research and Innovation Action, funded under the Horizon Europe framework Programme, aims to revolutionize the world of cloud computing and networking



Why ACROSS matters

The Internet of Things (IoT) has drastically changed how we understand and interact with technology. It's prompted rapid innovation in cloud computing and networking, leading to the creation of systems that span from large hyper-scalers to the very edge of the network. And with 6G networks on the horizon, we expect to see even more transformative changes.

The challenges ahead

However, this rapid evolution brings with it several challenges. From the complexity of multi-technology infrastructures to the difficulties in developing practical service management & orchestration (MANO) systems, there's no shortage of obstacles to overcome.

Other challenges include limited data plane visibility, lack of intelligence in current deployment systems, and the need for increased trust and security in data handling.





Our Mission and Vision

Our mission with **ACROSS** is to design a secure, end-to-end network and service management platform that can meet the complex requirements of modern and future cloud-based services.

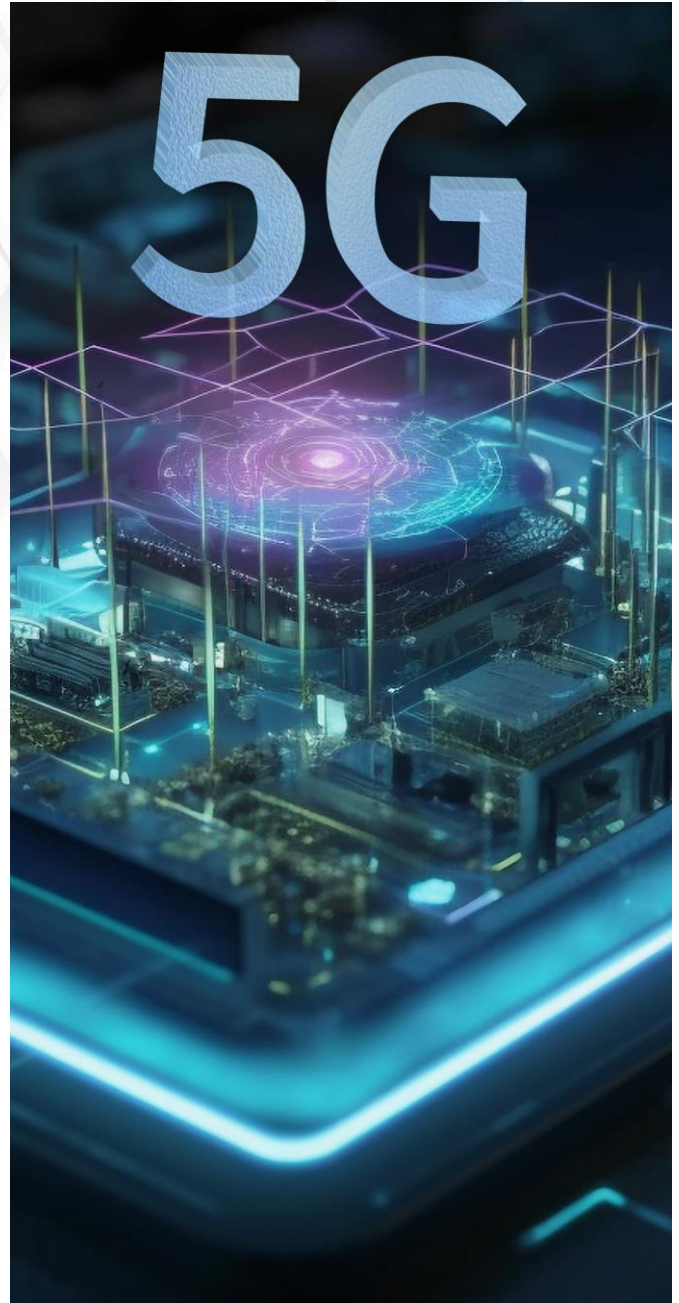
We envision a highly scalable service orchestration layer, managed by a multidomain cloud-native service orchestrator, to handle infrastructures across geographically distributed edge-to-core deployments.

How we plan to achieve this

Our solution will employ zero-touch mechanisms for service management optimizations and aim to increase security and trust over underlying devices and data sources.

We will use data, programmability, and Artificial Intelligence to improve performance and outsmart existing service orchestration systems.

ACROSS is part of a larger vision: to create a new breed of AI-driven, zero-touch service deployment and management platforms.



The ACROSS Consortium

NOVA



NEC



POLITÈCNICA



www.across-he.eu



6G SNS



ACROSS and Horizon Europe's European SNS JU

We are proud to announce that ACROSS is among the first selected projects to be funded under Horizon Europe's European Smart Networks and Services Joint Undertaking (SNS JU). This public-private partnership aims to promote the evolution of 5G ecosystems and advance 6G research in Europe.

We look forward to sharing more about our journey with ACROSS and how it's shaping the future of technology. Stay tuned for more updates!

Events

ETSI Research Conference 2023 (Sophia Antipolis, 6-8 February 2023)

The **ACROSS** project participated in "*ETSI Research Conference: Maximizing the Impact of European 6G Research through Standardization*", that took place in Sophia-Antipolis, France. This face-to-face event provided an exceptional opportunity for the research community to come together with industry representatives and standardization experts to discuss future technology research and links to standardization developments.



ACROSS was there and presented the technical aspects of project itself as well as the planned standardisation activities in which it is expected to engage in for the next three years of its duration.

Meetings

ACROSS Kick-off Meeting (10-11 January 2023)

On the 10th and 11th of January 2023, **ACROSS** partners assembled via teleconference in the Kick-off meeting.

Two days of fruitful discussions focusing on activity organisations and early view about the technical aspects and challenges. A presentation from the project officer on Smart Networks and Services in Horizon Europe has been deployed remotely on the first day as well.

