WHAT IS THE 5G MOKKI TECH SPACE?

The 5G Mokki™ Tech Space is a modular, physical and digital environment for learning, innovation, and remote work.

It leverages the latest communications and networking technologies.

When installed on a university campus, it brings along improved internet connectivity and uninterrupted electricity supply, which enables better education and innovation as well as remote work opportunities.

The system can be expanded to cover the entire campus and even nearby areas (cf. Smart Cities and Villages).

Not unlike the widespread Fab Lab digital fabrication concept which was introduced at MIT in 2001, the 5G Mokki Tech Space offers intensive hands-on technology courses and projects that increase students' collaboration and entrepreneurship skills while also creating employment opportunities.

The Tech Space's spearhead service is a practical 5G basics course introducing the latest communication and network technology.

It empowers students to learn by doing and inspires them to create and develop products and services locally, thereby actively contributing to the sustainability of their communities and cities.

At the Tech Space, students learn how to envision, prototype and document ideas in an immersive, hands-on digital test environment.

5G Mokki Tech Space in action at Nokia HQ Garage 2020. The concept is developed by the Start North association. The Start North network accelerates the learning and application of new technologies to meet the challenges of global sustainable development. The Start North network consists of the world's leading universities and companies. Besides the 5G Mokki Tech Spaces, the Start North network provides various types of events, programmes, and methods that complement the current education system. 5G Mokki is a trademark of Start North.

Photo: Start North association 2020

The courses offered at the Tech Space are open to participants from different parts of the world. Courses may require participants to demonstrate previous knowledge and competences.

By design, the Mokki Tech Space can be implemented in cooperation with telecom operators and other partners.

DISTRIBUTED EDUCATION

In today's education systems, two styles of education are broadly used: in-person, on-campus learning (school and University courses), and distance learning with remote students (MOOCs - Massive Open Online Courses). 5G Mokki Tech Space proposes a hybrid model: **Globally Distributed Education**.

At the Tech Space, students are not isolated, but rather gathered in local workgroups with peers, mentors, and network equipment. Everyone is then connected to a global online campus with content sharing and interactive video classes. The individual Tech Spaces become nodes (local hubs) for local participants, which are also supported and supervised regionally by mentors. Knowledge in this course does not run linear; it is the result of global and local interactions.

HOW IT WORKS

Each 5G Mokki Tech Space that participates in the program forms a node in a global 5G Mokki Tech Space network.

Students participate in lectures, which are recorded and available throughout the course. Scheduled daily group project work complements the lectures.

Students can develop their projects on a 5G Mokki Tech Space platform further if they gain a supporter for their project or if they receive a Start North scholarship.

5G Mokki Tech Space Academy faculty and mentors, who are leaders in their respective fields, provide global video lectures, supervise academic content, and guide project work. Hands-on instruction is provided by instructors who supervise and evaluate certificates, develop and disseminate instructional material, and assist with projects.

WHO CAN TAKE 5G MOKKI TECH SPACE COURSES?

The 5G Mokki Tech Space is open for students, professionals, and life-long learners with backgrounds from all disciplines looking for new approaches or to broaden the scope of their practice. We welcome individuals from every walk of life - with or without experience in technical training, whether looking for a way to develop a specific project or to pursue the demo or prototype of an idea.

We require our students to be proficient in English, both written and spoken. Since the course covers many subject areas and the project works aim at solutions that are potentially interesting to the market, the course should be considered a full-time dedication program.

SPEARHEAD COURSE

The 5G Mokki Tech Space spearhead course teaches the principles and applications of the latest communications and network technology, and it also teaches how to design and develop new products and services that meet market needs.

The spearhead course was co-created as the 5G summer course by the Start North community and network of top universities and companies at Aalto University's campus in 2019. Since then, the course has evolved and has become the world's leading 5G-themed summer/seasonal program, which is implemented worldwide. Its lecturers and experts have come from leading universities from the Nordic countries and universities such as the Massachusetts Institute of Technology (MIT), King's College London, Oxford University and George Mason University, as well as companies such as Nokia, Ericsson, Ernst & Young, Capgemini and Accenture.

INITIATION OF 5G MOKKI TECH SPACE

The 5G Mokki Tech Space learning, innovation, research and remote work environment was ideated by students of the first Start North network 5G summer course at Aalto University Campus in 2019. The idea of a 5G Mokki Tech Space concept is to take 5G networks, learning and experiments anywhere, quickly. The concept was further developed at Stanford University, UCLA and USC campuses, before it was launched as an innovation project at Nokia's headquarters in November 2019.

5G Mokki Tech Spaces have been used to enable cross-border education, research, innovation and remote work, regardless of conditions, including the COVID pandemic.

Since October 2022, the 5G Mokki Tech Space developer organization Start North has had an office in Palo Alto, California, next to Stanford University, in addition to its office in Helsinki.

COURSE CREDITS AND SKILL ACCREDITATION

Mokki Tech Space course credits are awarded by partnering universities. In the last few years, numerous institutions have started accrediting skills developed in the course.

The 5G Mokki Tech Space course certificate has led to students obtaining employment, investment opportunities, academic admission, and recognition.

The 5G Mokki Tech Space has no institutional connection with Stanford University or any other university - and none should be implied. It is supported by the Start North association.

MORE HANDS-ON COURSES AND PROJECTS

The 5G Mokki Tech Space environment and platform has subsequently been used to add classes that share the model of hands-on instruction to students in workgroups, with local mentors, linked by shared content and interactive lectures by global leaders.

WHAT IS MOKKI TECH SPACE'S EARNING MODEL?

The 5G Mokki Tech Space is being developed and operated by Start North association and its MOKKI INC LCC (Palo Alto) in ways similar to the Fab Lab foundation. The operation of the organization developing the concept and operating Mokki Tech Spaces and their programs is self-sustaining. The Tech Space coordinating and developing body makes a proposal to the universities about the equipment and services they need for the operation of the Tech Space.

A university buys the equipment (from technology providers) and services (from a telecom operator) at market price. A loan can be used to finance the investment.

The Mokki Tech Space offers several free programs and services. However, after the university has invested in the Tech Space, it maintains the right to implement certain fee-based programs and projects for students and companies looking for 5G/mobile/wireless solutions and experts. The Tech Space's host university receives most of this income, facilitating both loan repayment and surplus revenue.

CONTACT INFO

If you have any questions related to admissions to the 5G Mokki Tech Space, please contact the admissions office via email at: hello@startnorth.com