FINLAND – TECHNOLOGY SUPERPOWER

DIGITAL TECHNOLOGIES ARE REVOLUTIONIZING THE WAY WE EXPERIENCE THE WORLD, AND FINLAND MIGHT JUST BE THE BEST KEPT SECRET AMONG THE GLOBAL ICT-SUPERPOWERS
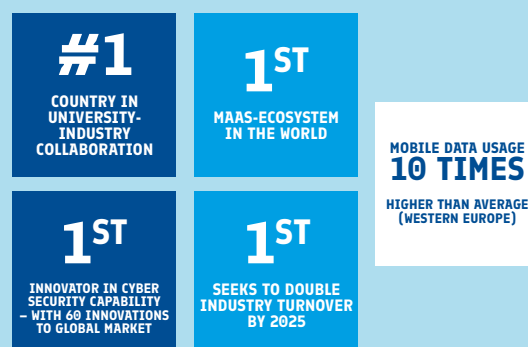
Finland is a true forerunner in developing digital technologies. From big players to promising startups, Finnish tech companies all equally build cutting edge innovations around 5G, AI, cyber security, and other game-changing industries of the future. Our expertise in developing state of the art solutions in communication technologies is the combined product of world class research made in Finland and a long tradition of working with digital innovation. The development of digital technologies is intersectional by nature and the sector combines players from different fields, creating holistic ecosystems and new perspectives. Finally, it all comes down to our hunger for problem solving, strong engineering skills and pulsing startup scene.

DIGITAL INNOVATION IS CODED IN FINNISH DNA

Ever since Nokia first entered the market, Finnish engineers have been recognized as top of the class in mass manufacturing even the most complex electronics and SW products Finland is home to world leading mobile gaming companies, and 350.000 professionals work in the Finnish ICT and mobile industry. Finnish society is also highly supportive of entrepreneurship, with a flourishing Silicon Valley-inspired business culture. At the same time, Finland's track record in connecting people and devices continues to be undisputed globally.

Innovations like Linux and the SSH encryption protocol were originally developed in Finland. Even though we excel in solutions regarding cyber security and privacy protection, Finland works toward openness and collaboration. Finland is home to world's largest open 5G test network, with an aim to be the best 5G test network environment and ecosystem in the world for research and business development. Digital platforms economy, data science and artificial intelligence will strengthen their presence in our society in the future, and Finland is in the frontline of this development.

KEY FIGURES

#1 COUNTRY IN UNIVERSITY-INDUSTRY COLLABORATION

1ST MAAS-ECOSYSTEM IN THE WORLD

MOBILE DATA USAGE **10 TIMES** HIGHER THAN AVERAGE (WESTERN EUROPE)

1ST INNOVATOR IN CYBER SECURITY CAPABILITY – WITH 60 INNOVATIONS TO GLOBAL MARKET

1ST SEEKS TO DOUBLE INDUSTRY TURNOVER BY 2025

*Sources: EU/Impact Assesment

IT IS ESTIMATED THAT BY 2030, 30% OF FINLAND'S GDP WILL COME FROM PLATFORM ECONOMY
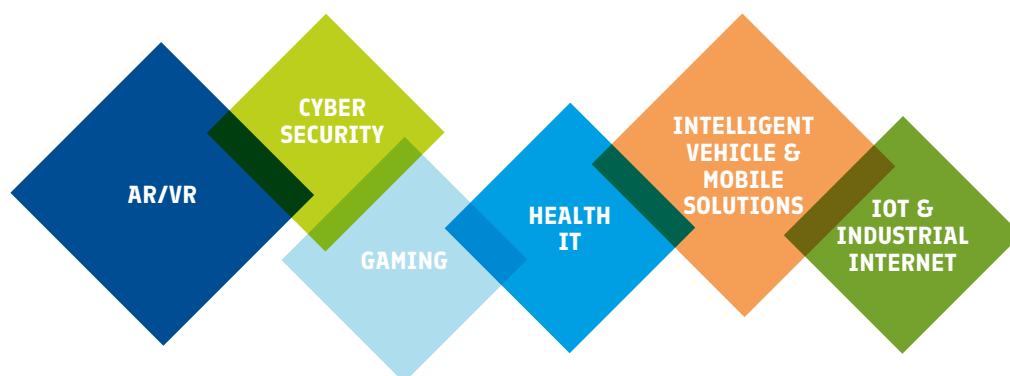
PRODUCERS **PLATFORMS** **CONSUMERS**

THE MAIN ICT & DIGITALIZATION INDUSTRY SEGMENTS

From safety to increased efficiency, **Virtual and Augmented Reality** technologies are significant game changers for many industries; AR and VR simulator facilities or tools enable safer and more cost-efficient testing, training, designing and planning. Besides improving productivity, they open up whole new business opportunities as well. This is an area Finland thrives in, with its vibrant and hungry startup scene.

Today, Finland continues to be one of the **Cyber Security** leaders in the world, with nearly 100 companies operating in the sector. Whether global player or determined startups, these companies cover the entire cyber security ecosystem, from virus prevention and identity management to vulnerability analyses and compliance testing.

If you're under 30 and live on planet Earth, you've played a game made in Finland. The Finnish **Gaming** industry means business in more than one way. While studios like Remedy continue their ground-breaking work on consoles and PC, Rovio and Supercell inspire new studios to game big and keep Finland the best place in the world for mobile game business development.

With the most **Digital Health** startups per capita in the world, Finland is a small giant in medical technology, sports wearables and heart rate monitoring solutions. While there is no simple solution to population ageing and rising costs of healthcare, digital health may provide an effective way to change healthcare for the better.

Finns are known as fast drivers. Now they are racing to the front with the **world's first mobility operator and MaaS (Mobility as a Service) ecosystem** for traffic. Today Finnish companies provide the automotive industry with infotainment, connectivity, and sensor solutions, as well as specialized components for engines, electric drives, gears, catalytic converters and tires. These companies come in all sizes and makes – from fast-maneuvering startups to big-league players.

Finnish **IoT** expertise goes beyond traditional manufacturing and provides the brains behind efficient energy production and management. Finnish companies have developed an array of technologies to monitor, sense, optimize and automate energy streams from production to the end user. Not only do the companies set the industry benchmark for data acquisition, visualization and analysis, they also exemplify the open and productive attitude Finnish companies bring to ICT partnerships.

EXAMPLES OF COMPANIES IN THE INDUSTRY CATEGORIZED BY THEIR FIELD

AR/VR: 3rd Eye Studios, Arilyn, Deeptale, Futurice, Varjo
Cyber Security: 2NS, F-Secure, SSH
Gaming: Fingersoft, Remedy, Rovio, Supercell
Health IT: : Bittium, Combinostics, Kirontech, Oura, Quva
Intelligent Vehicle & Mobile Solutions: : Kyyti, MaaS Global, Rightware
IoT & Industrial Internet: BaseN, Haltian, Wirepas

MORE INFORMATION

BUSINESS FINLAND: ICT & DIGITALIZATION
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ECOSYSTEM

Our secret is a unique government supported ecosystem, where companies, research facilities and universities form a tight-knit community. Finland has recently been ranked no. 1 in the world in university-industry collaboration. Our large amount of open data and supportive legislation create a strong foundation for new digital services and AI technologies, leading us to the era of platform economy. The number of software firms in Finland has risen by 40 percent in six years. One benefactor of this trend is Slush, the world's biggest event connecting startups and venture capital.