

FINLAND IS AN EASILY
ACCESSIBLE, HIGHLY
INNOVATIVE TECHNOLOGY
FORERUNNER THAT
OFFERS RELIABLE AND
COMMERCIALLY AVAILABLE
SOLUTIONS AND NEXT
GENERATION RESEARCH TO
ENHANCE QUALITY OF LIFE.

6G

BUSINESS FINLAND

THE CONNECTIVITY FORERUNNER

Past years have shown the fragility of the world as we know it, underlining the vitality of secure and wireless data transfer. The need for reliable partners and developed technologies is more evident than ever.

The race is on: in the fast-moving and quickly changing competitive environment, finding the right partner becomes crucial in keeping up with the development of technology.

Finland has commercially available and fully developed solutions available to support companies around the globe. Our country has a holistic and exceptional competence in connectivity and related services.

Finland's strong tech expertise, high level of education and vibrant startup scene contribute to an attitude of innovation, putting us at the forefront of digitalization, communication technology and smart technology.

We invite you to meet these committed technology providers to hear what they can do for you and your country.

By partnering with Finnish companies and implementing our existing solutions, your company will be able to develop and pilot products and services faster and more reliably than your competitors.

FINLAND IS THE MOST ADVANCED COUNTRY IN THE EU IN THE UTILIZATION OF DIGITALIZATION. THE BEST DIGITAL COMPETITIVENESS IN THE EU.*

THE MOST STABLE COUNTRY IN THE WORLD.**

THE BEST DIGITAL SKILLS IN THE WORLD.**

THE HAPPIEST COUNTRY
IN THE WORLD.***

THE HOTSPOT FOR 6G RESEARCH

Ubiquitous services follow users seamlessly, everywhere, and wireless connectivity is already an essential part of critical infrastructure. By 2030, 6G technology, together with artificial intelligence, will create context-aware smart services and applications for human and non-human users alike.

6G is critical for the digitalization and automation of 2030s society. It will also help fulfill the United Nations' sustainable development goals. 6G will help to merge the physical, digital, and biological worlds, offering smart applications for everyday life. For this to happen, networks must become more complex, more secure, and more reliable than the existing ones. Eventually networks and the applications they support should also be ready for the quantum era.

In Finland, national and international work towards 6G started in 2018 through 6G Flagship, a project funded by Reserach Council of Finland. As a pioneer, the project has been supporting the R&D for B5G (Beyond 5G) and early research for 6G. Moreover, Finland has

been leading the Hexa-X EU projects for the European 6G vision creation and early industry involvement.

To further accelerate R&D and innovation. Finland will use the lessons learned from 5G's early development, from the vertical industry collaboration with smart cities to smart energy, smart ports, and smart factories and with different ecosystem players. The unique industry-academia and governmental cooperation supported by the vivid startup scene and the country's technological background also provide a concrete and versatile foundation for the new 6G collaboration - both from the mindset and impact points of view.

FUNDING CALL FOR INTERNATIONAL STRATEGIC PARTNERSHIPS

Business Finland's 6G Bridge program and Quantum Computing campaign are calling research organizations to increase their collaboration with strategic international research ecosystems. The goal is to create strategic research international collaboration with key



international research partners and to make Finnish research in these areas more visible globally through international joint projects.

The 6G Bridge is a new government-led funding program running 2023-2026. By the start of year 2024 about 40 projects worth 30 million euros have been started within the program to support 6G research.

THE FINNISH RESEARCH COALITION INVITES YOU TO COLLABORATE

Finnish 6G research advances the impact of Finnish 6G expertise globally, builds new international partnerships and ecosystems, and intensifies national 6G development efforts towards sustainable and data-driven society enabled by instant and unlimited wireless connectivity. By enhancing the ecosystem and supporting the research by funding programs Finland aims to attract international investments, strengthen the key capabilities in 5GA/6G and foster testing and experimentation facilities in 6G.

FINNTSH 6G FCOSYSTEM STTFS:

- 6G Bridge funding program 2023-2026 www.businessfinland.fi/en/6gbridge
- Partnership Funding Call: 6G Bridge and Quantum Computing -Business Finland www.businessfinland.fi/en/whats-new/calls/2024/ partnership-funding-call-6g-bridge-and-quantum-computing
- 6G Flagship program by University of Oulu since 2018 www.6gflagship.com/
- 6G Finland www.6gfinland.fi/
- Aalto University,
 Department of Information and Communications Engineering www.aalto.fi/en/department-of-information-and-communications-en-gineering
- Aalto University, Department of Electronics and Nanoengineering www.aalto.fi/en/department-of-electronics-and-nanoengineering
- VTT Beyond 5G and 6G Networks www.vttresearch.com/en/ topics/5g-and-future-networks
- · University of Helsinki: www.helsinki.fi/6gresearch
- 6GSymposium Spring 2024 | 6GWorld www.6gworld.com/6gsymposium-spring-2024/

MEET THESE EXPERTS AT THE MOBILE WORLD CONGRESS 2024 – **CONTACT INFORMATION**:



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AAVAMOBILE

DIGITALIZING HAZARDOUS AREAS.

Enabling Connectivity. Enhancing Enterprise Mobility. The new Smart-Ex® 03 smartphone paves the way for future-oriented digitalization. Use Synergies. Bundling Know-How for Mobility Beyond Company Boundaries.

Enterprise Mobility Solutions from Pepperl+Fuchs are geared towards the requests and needs of our customers and pave the way for future-oriented digitalization. They offer a competitive solution concept and portfolio from a single source to enable the next level of enterprise centric digitalization. This opens up completely new possibilities and increases the safety, efficiency, and transparency of operations in both conventional and IIoT applications—driving the value of connected solutions for mobile employees and digital transformation and thereby Pepperl+Fuchs Enterprise Mobility.

Aava Mobile Oy from Pepperl+Fuchs is a leading innovator in the global enterprise tablet and handheld market. Under the brand oona Aava Mobile offers devices dedicated for simplifying check-out processes in hospitality and retail with contactless payments. Aava Mobile Oy has been part of the Pepperl+Fuchs Group since 2021.

Customers around the world know the Pepperl+Fuchs Group as a pioneer and innovator in electrical explosion protection and sensor technology.







5 PEPPERL+FUCHS

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CONVERGENTIA

MORE CLEVER ANTENNA DESIGN COMPANY

Convergentia services include antenna design, antenna concept creation and antenna measurement services to all wireless device manufacturers.

Our roots trace back to Nokia, and we proudly retain team members who pioneered simulation-assisted antenna design for Nokia twenty years ago.

We are proud of our track record of 200+ successful antenna projects including smartphones, smart watches, smart glasses, smart rings, pet trackers and many others.

Our industrial design and mechanics team complement our antenna design team and together we are able to offer our customers more clever antenna solutions.



CONTACT

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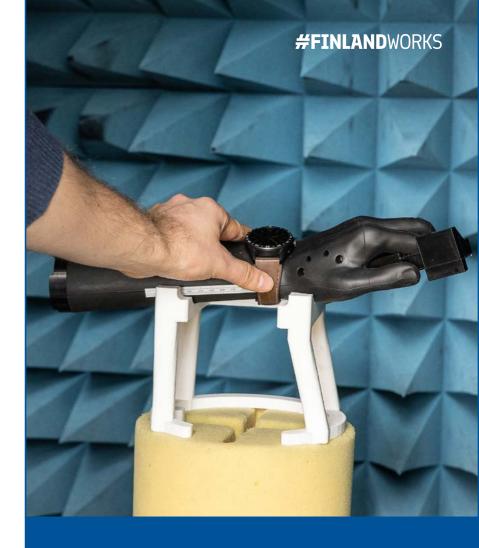
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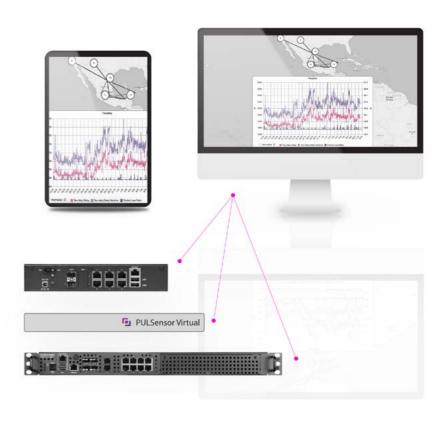
CREANORD

Creanord creates world leading technology solutions in the areas of Network Performance Monitoring and SLA assurance. Driven to turn data into outperforming networks, Creanord offers tools and services that enable mobile operators, critical communications service providers, business service providers and wholesalers to deliver connectivity and services with confidence.

Networks around the world are monitored with PULSensor® highly accurate and scalable physical and virtualized measurement probes. With the PULScore® intelligent network performance management suite, service providers can monitor and optimize their networks to provide the best possible user experience at a fraction of the cost compared to traditional solutions.

Since 2000 Creanord has served its customers operating the most demanding networks and applications. We help these organizations make societies smarter, businesses more competitive and our lives safer. The Creanord headquarter is in Helsinki, Finland, with a global reach through its partner network.







on the pulse of networks

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CUMUCORE

REPLACING ETHERNET CABLES

Specializing in Industry 4.0 verticals, we offer a comprehensive suite of Core products and services tailored for non-public networks. Our offerings encompass 5GLAN and TSN features, delivering robust solutions for diverse industrial applications.

We are serving customers around the world delivering cost efficient and feature rich 4G and 5G mobile solutions. Cumucore includes voice and data service supporting the latest features like Ethernet PDU and SUCI.

With a strategic focus on 6G, we boast exclusive local frequency licenses and oversee the management of the Aalto University network, providing an invaluable testing ground for our innovations.

As a privately-owned entity headquartered in Espoo, Finland, our team of 20 seasoned professionals brings a wealth of experience to the table. With a collective expertise spanning over 100 years in the mobile network arena, our management team encompasses insights from infrastructure and handset development to standardization, product management, and sales.



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#FINLANDWORKS

EFORE

Efore provides power solutions, cabinets and lithium batteries for communication networks and industrial applications. We have over 45 years of experience designing and manufacturing highly reliable and world-class power system solutions.

Our standard and custom power and cabinet products are suited for demanding telecom and industrial applications. We have also products for demanding outdoor conditions. For example, we have a small-site specific outdoor rectifier and battery to provide complete power solution that can be installed on wall or tower (zero footprint power) in wide operation temperature range (-20°C to +50°C).

Traditional back-up batteries have been used to provide power for the ICT equipment in case of power outage. Efore has launched worlds first 19" rack compatible 2U high 100Ah LFP battery for ICT industry. We have developed with our partners new functions to use the back-up batteries for other use as well. Now a telecom operator can have additional revenue or share their assets for the benefit of the community, for example:

- To participate in energy trading or grid frequency markets
- To provide energy to the community in remote locations with no or limited power







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#FINLANDWORKS

ENHANCELL

Enhancell Ltd. produces software solutions for wireless network surveys. The company was founded in 2014 and is headquartered in Oulu, Finland with offices in Miami, FL, USA; Düsseldorf, Germany; and Paris, France. We operate on the global market and are a trusted partner of several major cellular operators and network manufacturers. We strive to simplify network testing with the Echo product line consisting of tools running directly on commercial smartphones, tablets, and PCs.

Echo tools support 2G-5G, Wi-Fi and Bluetooth measurements and can perform detailed RF measurements along with manual and automated voice and data testing to get QoS and QoE performance of cellular networks. Our tools include an online cloud service enabling e.g., license control, remote control of the devices, log file transfer between the devices, and log file export. The tools come in universal license form and are transferable between devices.









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FUSIONLAYER

THE NETWORK SOURCE OF TRUTH FOR EDGE CLOUDS

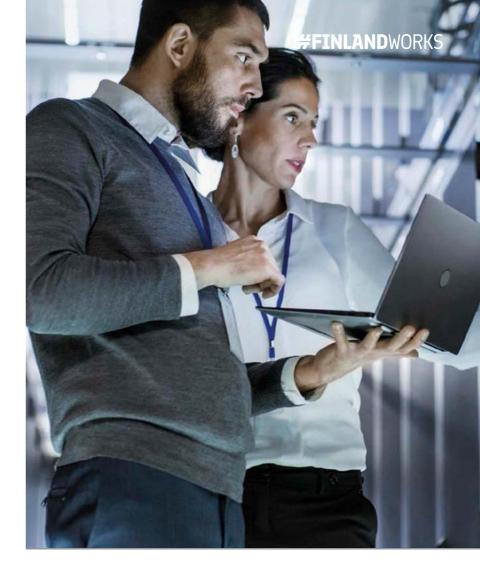
As Artificial Intelligence (AI) makes its way into the mainstream, the next generation of AI-enabled applications will be scaled out using a new breed of decentralized business infrastructure deployed at the network edges. These edge nodes will be interconnected through real-time connections that are created and managed using network automation.

FusionLayer provides patented Network Source of Truth and IP addressing solutions that lay out the IP connectivity bedrock for network functions, intelligent devices, and business applications leveraging the edge clouds. Already in production in some of the most sophisticated Open RANs in the world, the cloud-native FusionLayer systems are available in both virtualized and containerized form factors.

FUSIONLAYER PROVIDES THE FOLLOWING MULTI-MILLION BUSINESS BENEFITS:

- Implement end-to-end network automation to eliminate service, and to speed up time-to-market from weeks to minutes.
- Minimize OPEX and speed up service activation by automating the IP assignment and configuration processes for virtualized network elements running at the edge clouds.
- Speed up time-to-market and revenue recognition by extending the BSS/OSS automation seamlessly to service activation on the network level.







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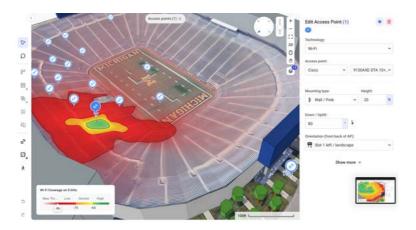
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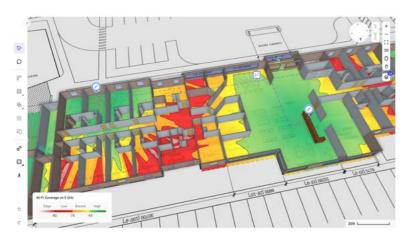
HAMINA

Hamina helps network engineers design, deploy and maintain better wireless networks, from Wi-Fi 7 to Private 4G / 5G to IoT Wireless technologies (BLE, ZigBee, EnOcean).

Hamina's solutions help plan networks in real-time (coverage, capacity, etc), as well as validate networks (wireless site surveys). Analysis and troubleshooting of existing networks is a breeze too using Hamina.

Hamina's wireless networking tools are cloud-based, easy to use, and highly scalable. We have customers in over 50 countries from one-man IT shops to the Fortune 10. Hamina partners with the largest companies in the world, including Cisco, HPE, Juniper Networks, Extreme Networks and Cradlepoint.









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INFINITEQ SYSTEMS

TRUSTED SOFTWARE TESTING PARTNER FOR CREATING BETTER CONNECTED PRODUCTS.

Infinited Systems offers software testing solutions based on robotics and machine vision. The solutions are targeted for testing different smart devices having a touch screen display or HMI operated by physical buttons. Typically, these devices are mobile phones, wearables, tablets, IVI systems and different controlling units for larger systems.

When it comes to ensuring the quality of products intended for everyday use, relying solely on software to validate itself is not always sufficient. To address this limitation, it is essential to enhance the level of automation and bring the software testing approach closer to the end user. This can be achieved by incorporating physical screen operations and real-time camera verification, which allow for more efficient detection of software defects. By doing so, the overall product quality and user experience can be significantly improved.

Infinited Systems is a trusted partner collaborating with Original Equipment Manufacturers (OEMs) and various product and software companies across three different continents. Our expertise lies in aiding the creation of superior quality products, thereby ensuring customer satisfaction.







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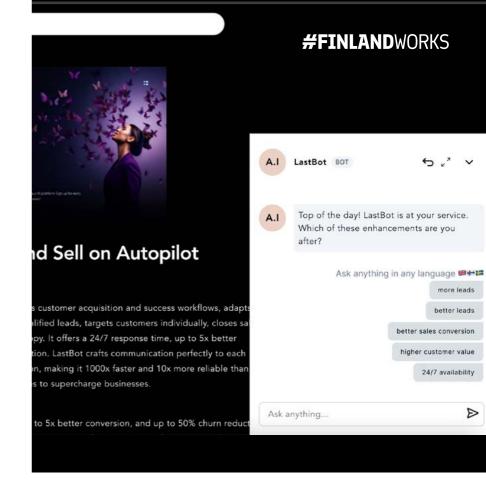
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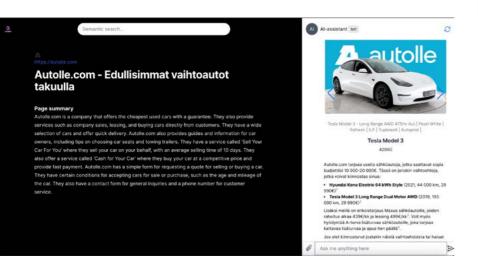


LASTBOT

LastBot is an advanced AI platform designed to revolutionize business by automating customer acquisition and success workflows. Our services cater to the pressing need for efficient lead generation and customer value maximization. LastBot specializes in generating qualified leads, personalizing communication, and automating sales transactions, all while adapting to your brand's unique identity and voice. With a promise of 24/7 response times, our platform delivers up to 5x better conversion rates and up to 50% churn reduction, ensuring that your business stays ahead in the competitive global market. Our unique selling points include crafting communication that is 1000x faster and 10x more reliable than human efforts, providing a 100% personalized approach to each customer, product, context, and situation. LastBot is designed to supercharge businesses by offering seamless integration with existing systems, learning from each interaction to enhance future communications, and ensuring meaningful engagement with every customer.







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MENTURA

PROVIDE A SERVICE YOUR USERS CAN TRUST

Mentura Group is a leading provider of advanced and intelligent software solutions for Critical Operations. We have been pioneering in migration to mission critical broadband, being a first line innovator in re-defining the solutions and processes in the hybrid world. Mentura has large, satisfied customer base and over 20 years of experience operating in critical communication industry. Our solutions empower organisations to protect and build a safe and smart society.

Our COREMOTE solution family allows network operators to provide a service their users can trust and enables authorities and professional organisations to efficiently manage their field operations and security using Critical Communications Networks. COREMOTE solutions support 5G, LTE, TETRA, Hybrid and GSM-R networks.

MENTURA SOLUTION OFFERING:

- Coverage & Performance Monitoring
- Fault & Availability Monitoring
- Network Testing & Optimisation
- Subscriber Management & Billing
- Situational Awareness & Positioning



mentura

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NETRADAR

Netradar revolutionizes mobile performance data management with a patented end-to-end solution. Tailored for network operators, critical communications providers, and regulatory authorities, our unique offering allows customers to collect, own, and exclusively control crowdsourced mobile performance data from end users. Through smart AI tools, we facilitate comprehensive network understanding, aiding in strategic capital expenditure decisions and operational cost reduction. Proactive issue identification and resolution enhance overall customer experience.

As a technology solution provider, Netradar stands out by avoiding third-party data collection and abstaining from involvement in data sales. Our commitment to data security is exemplified by secure, private system deployment within the customer's environment. We provide a true competitive edge with 100% data ownership exclusively granted to the customer. Overcoming legacy challenges, our hybrid measurement methodology, developed and patented at Aalto University, ensures accurate insights. The incorporation of smart AI algorithms allows us to detect network anomalies and provide auto-troubleshooting for efficient problem resolution, cementing Netradar's position at the forefront of innovative mobile performance solutions.



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NOCCELA

Industrial grade UWB networks enable Network Service Providers to differentiate their offering, deliver on the promise of IoT and derive significant value from their customers looking to digitalize real-world processes and increase automation. Through ultra-precise tracking of assets, two-way communication and 3rd party integration, end customers gain more visibility to LEAN targets, trigger their production stages based on asset movements and create digital twin models.

Since 2014, Noccela has been a forerunner in private UWB network implementations and a full-stack provider with in-house capabilities ranging from hardware production to service design. Our proven cloud-based solution is built to scale and our proprietary algorithms power some of the largest industrial UWB IoT applications live today. As a FIRA Consortium member and Qorvo solution partner, we offer you new business opportunities beyond connectivity while your customers achieve an order of magnitude reduction in costs compared to Bluetooth or 5G based setups.





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ORBIS SYSTEMS

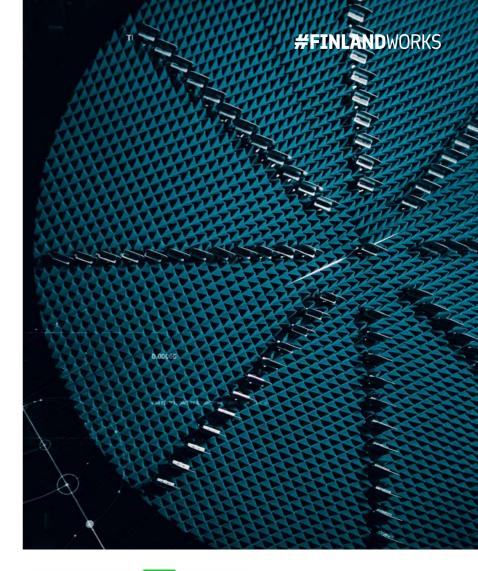
ORBIS SYSTEMS IS THE LEADING GLOBAL 5G AND ORAN TESTING SOLUTION PROVIDER

With our extensive experience in volume delivery and support, we help our customers develop new products and technologies. To meet and exceed their expectations, we solve complex technological problems, deliver customized and innovative solutions to address their needs. We strive to build long-lasting relationships, being close to our customers and fostering open communication.

Orbis Systems' cost-effective and tailored solutions enable our customers to verify and optimize the performance of their products and services. Our 5G OTA chambers, RF shielded rooms, RF Signal Switching Units and anechoic chambers are highly customizable and available over a wide range of frequencies including sub-6GHz and mmWave. They are compact and transportable, come in various sizes and feature tailor-made automated positioner solutions. Furthermore, we are already developing testing solutions for 6G.

If you need over-the-air testing for your 5G/6G technology development or product testing, let's talk!







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RADIOPARK

RADIOPARK – FOR YOUR WIRELESS TOMORROW

RadioPark provides services for wireless solution creation and testing for wide range of industry verticals. We have tools and capabilities to serve your development needs end to end all the way from simulations to market access. RadioPark with its flexibility and proven competences makes it trusted partner for challenging projects, regardless of your industry.

RadioPark is more than a product house. We are a competence center of the latest wireless technology. Operating with the world class 6G research unit and other research entities, we truly can find the best wireless solutions for your needs.

RadioPark is a Oulu based company. This means that we have been building the radios through decades and now we are ready to offer our cumulated competences for your complex development needs.

RadioPark is a company that creates solutions for your wireless tomorrow.







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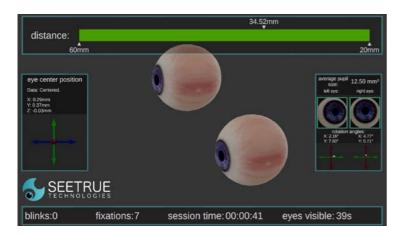
SEETRUE TECHNOLOGIES

SeeTrue's core technology enables industry-level solutions co-created with device manufacturers, aiming to embed eye tracking to their operation environments. Eye tracking is required for intelligent interactive systems that understand, predict, and react to human behavior.

As eye tracking needs to work universally across wide populations and use situations, we have concentrated on making our solution robust to meet the requirements of real-world applications.

Our patented approach has been proven with major manufacturers across three verticals: medical, vision care, and AR/VR. Our innovative solution incorporates a powerful cutting-edge geometrical model to achieve unparalleled robustness and accuracy, slippage resistance and requiring no recalibration.

Unlike other methods that rely on pure machine learning predictions and computer vision models, SeeTrue approach is not only extremely robust, but also computationally efficient, requires no-to-minimal host compute, and can easily be deployed on any hardware.







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TREON

FAST-TRACK TO MASSIVE IOT SOLUTIONS.

Treon, a high-tech company, empowers global leaders across sectors such as industrial automation, digital buildings, and logistics to build scalable IoT solutions. With strong expertise in wireless communications and battery-operated devices,

Treon excels in building intelligent edge devices and offering products, services, and solutions for massive IoT deployments.

Collaborating with Treon gives customers the flexibility to choose the backend – cloud or on-premises, and to deploy custom applications on top of Treon's integrated software. Treon's ecosystem of partners plays a significant role in transforming visionary IoT ideas into operational solutions.

Let's explore how we can help transform your IoT innovations into reality. Contact us today.





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VERKOTAN

Verkotan sees the world through antennas by providing wireless test services and solutions since 2015. Until now we have got over 200 hundred customers in more than 35 countries in five continents. Our customers vary from startups to Fortune 100 list companies having a radio and antenna in their products. Our roots are in cellular phones R&D, covering all technologies from the 1st generation to the upcoming 6th generation.

We can provide OTA, Beamforming Antenna, RF Exposure, SAR and EMC -testing or comprehensively Tailored Test Solutions and consulting. We have developed our own active and passive antenna measurement systems based on NF-FF transformation, which is an essential method for 5G beamforming antenna measurements.

We are actively participating in EU R&D projects with research institutes and other leading companies, and we are continuously seeking for new state-of-the-art solutions.

We are a fast, flexible and reliable partner with our customers' R&D and we always find the best testing solutions to match our customers' needs. Our laboratories are located in Oulu RadioPark, Finland



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VISIDON

IMAGE AND VIDEO ENHANCEMENT FOR EMBEDDED CAMERAS

Intelligent technologies are transforming the way people use their mobile devices. Visidon's passion is to create high-quality mobile image and video technologies that enable billions of people to capture their everyday moments in an easy and professional way. Visidon's unique software solutions for embedded cameras support OEMs in designing mobile devices with outstanding camera features that meet the needs of today's consumers. Our software products include for example automatic image and video quality enhancement, computational imaging, and face recognition. We develop our solutions utilizing fully optimized imaging and AI technologies.

KEY OFFERING:

- · AI low-light enhancement
- AI RAW super resolution
- HDR
- · facial detection, recognition, and analysis
- depth estimation







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WIREPAS

You may know IoT as your vacuum cleaner that's connected to your phone. Or an oven that sends you an alarm when your chicken is cooked. That's IoT. But that's different IoT. We concentrate on large industrial applications. Like connecting your electricity meter so that no one has to come in and check it monthly. We connect stuff on a massive scale. The biggest network using Wirepas technology has over million devices connected. In one single network. But it's not just meters, it's also car parts, hospital beds and anything really. So no one needs to waste time looking or checking.

We think large-scale, top-notch IoT should be affordable. That's our mission. Our technology lets any enterprise set up and own their own network. And it works autonomously. All this at a fraction of the cost of alternatives.

Ever heard of non-cellular 5G? That's us too. We were the main contributor to this first non-cellular 5G standard, DECT NR+. It's purpose-built for massive IoT and uses a free global spectrum. And now we see the first implementations of it on the market.

We're all about democratizing enterprise IoT. We make failure-free connectivity accessible to companies of all shapes and sizes. Need more?



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JOIN US AT A NETWORKING EVENT:

6G MEETSHAPPINESS

In the 2030s, society will enjoy near-instant wireless connectivity, and our future willbe data-driven and sustainable. 6G is critical for the digitalization and automation of the future society.

Finland's holistic and exceptional experience in connectivity and wireless transfer has created a unique cluster of companies at the forefront of digitalization, communication technology, and smart and clean technology.

WHEN AND WHERE?

Tuesday, February 27, from 3–5 P.M. At Finland Country Pavilion (MWC Hall 5 - 5J45)

PROGRAMME*:

Opening words by **Lulu Ranne**, Minister of Transport and Communications of Finland

Harri Holma, Fellow at Nokia Oyj: From 5G Learnings to 6G Design Targets

Kalyan Kumar, Global CTO at HCLTech/CPO at HCLSoftware: HCL's Innovative Leadership in Leveraging Emerging Technologies for Global Transformation and the Unique Contribution Finland Can Offer

Introducing pavilion's companies and 6G R&D institutes

Networking, drinks and tapas

*Subject to changes



Stand design & production www.wulffentre.com





ICTOulu is a network of Oulu-based ICT companies from new generation tech startups to international giants operating in Oulu.







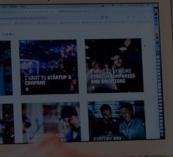


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- *) DESI Digital Economy and Society Index, 2022
- **) The Fund for Peace, Fragile States Index, 2022
- ***) UN World Happiness Report 2023

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