2.6 BILLION PEOPLE USE ICT TECHNOLOGIES DEVELOPED IN OULU EVERY DAY
OUlu’s track record in wireless world

1981
First NMT network

1982
Europe’s largest technology park

1991
First GSM phone call; first remote payment system for public transport

1992
World’s first GSM base station

1993
New menu-driven user interface for mobile phone

1996
First WCDMA telephone call

2001
First security products for mobile phones

2002
First security OTA services for mobile phones

2003
First free urban area WLAN network

2004
First commercial edge high-speed network

2005
First public NFC user

2007
Launch of mobile WiMAX test network

2008
First pedestrian navigation phone

2009
First cloud based mobile security services

2010
Linux phone launch; world first cognitive radio network phone call

2011
WiFiUS — high capacity nextgen cognitive radio solution

2012
World’s first in printed intelligence

2013
The first ubiquitous indoor positioning solution

2014
Full implementation of Li-Fi; the first two-front smartphone with inbuilt electronic paper display

2015
Planning and implementation of two 5G test networks

2016
Transforming healthcare with 5G
5G

IT’S NOT ONLY ABOUT THE TECHNOLOGY

5G WILL CREATE new types of services, service providers and business models.
Oulu 5G activities

5G development in Nokia Oulu campus, in collaboration with Oulu University, VTT and companies in Oulu

- Manufacturing in Oulu
- Commercial launch in next 2 years
- Test networks up and running in
  - Oulu University Hospital
  - Oulu University campus
  - VTT campus
Oulu 5G activities

5G piloting in collaboration with Nokia, Telia and City of Oulu going on (or coming up) in

- Nokia Factory Oulu
- Raksila Ice Hockey stadium
- Port Of Oulu
- Oulu Health

5G as a platform and innovation environment for new products or business models
University of Oulu to begin groundbreaking 6G research as part of Academy of Finland’s flagship programme. Professor Matti Latva-aho is the director for the ambitious eight year research.

“Our research will combine several challenging research areas including reliable near-instant unlimited wireless connectivity, distributed computing and intelligence, as well as materials and antennas at very high frequencies to be utilized in future for circuits and devices. These will enable drastically new types of services and applications pushing wireless networks to ultimate limits.”

*Academy Professor Matti Latva-Aho*
OU LU ICT ECOSYSTEM
SNAPSHOT
2014–2016
MORE THAN
500
NEW STARTUPS

640
HEALTH & LS
COMPANIES

450
ICT COMPANIES

DIGITALIZING
THE
WORLD

18 500
HIGH-TECH JOBS

OULU, FINLAND
GMT +02:00
“I think Oulu is the world’s best place, second to none, for radio access engineering.”

Rajeev Suri
CEO, Nokia
“By opening our new office in Oulu, we hope to be an attractive employer to some of the most seasoned engineers and the brightest graduating engineers from local universities.”

JS Pan
Deputy General Manager
MediaTek
Marshall Phone
designed and
developed by Creoir.
KATIM Phone
designed and
developed by
Dark Matter
AavaMobile
Rugged Tablets for Verticals
Bittium Tough Phone
Secure and Strong LTE Smartphone
GoodSpeed
Global Wireless
Internet Access
Polar
Heart Rate Monitors
Adidas
SmartRun
Developed and Designed by
Bittium
Ouraring
For Optimal Sleep, Health and Performance.
QuietOn
Find Your Silence
Mpower
The revolution for strength training.
Spektikor
Instant, Automatic and Standalone Heart Beat Indicator
Tosibox
Your Private Highway Through the Internet of Things
Specim
Hyperspectral Imaging Cameras And Systems
MinimaProcessor
Revolutionary Minima Processor brings to life Internet of Things applications with superb compatibility.
SnowFox
Tracker Phone for Kids
Capricode
Innovative tool to extend Cyber Security and automate Device Management.
iLOQ
Digital Locking.
No batteries.
No worries.
ThingSee
IoT Made Easy
Most
Developed and designed by Creoir.
In real time.
Without actually being there.
9Solutions
The New Standard for Healthcare Safety and Communication Solutions
IndoorAtlas
Making Indoor Worlds Discoverable.
KNL Networks
Keeping You Online. Always.
Hill Climb Racing

by Fingersoft
Ultracom
Take your adventure to the mobile
Elektrobit
Embedded solutions, cloud computing and services for the automotive industry.
Valossa

AI technology for video industry.
Verkotan
Accurate wireless test and certification solutions with for the wireless industry.
Pivo
The Handiest Payment Instrument in the World.
TactoTek
Smart Molded Structures
Flexbright LEDFOIL technology
Augumenta
Industrial Augmented Reality applications and tools
DIGITALIZING THE WORLD

JANNE MUSTONEN
Key Account Director, ICT and NANO BusinessOulu
janne.mustonen@businessoulu.com
+358 45 6752929

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