

Bittium Company Presentation

Toni Kinkki
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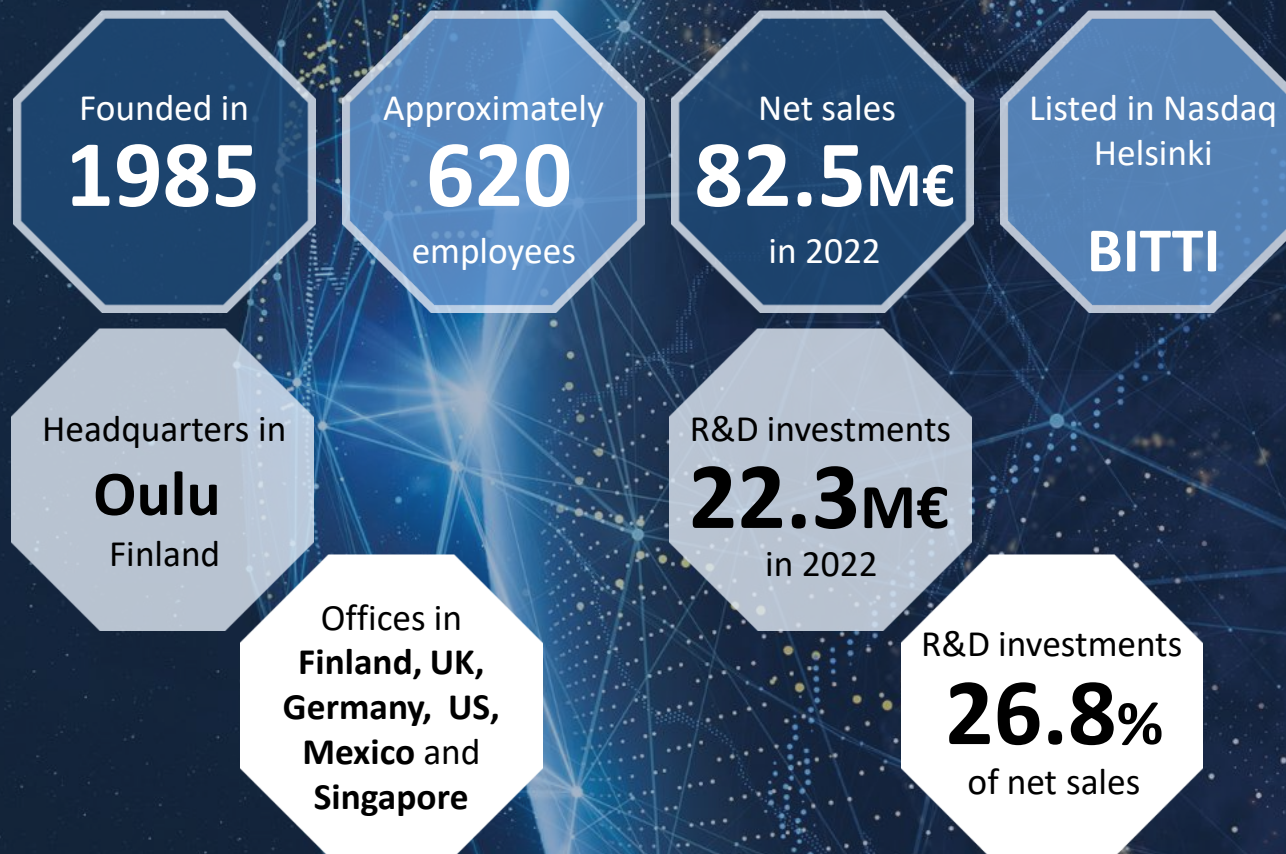


Bittium

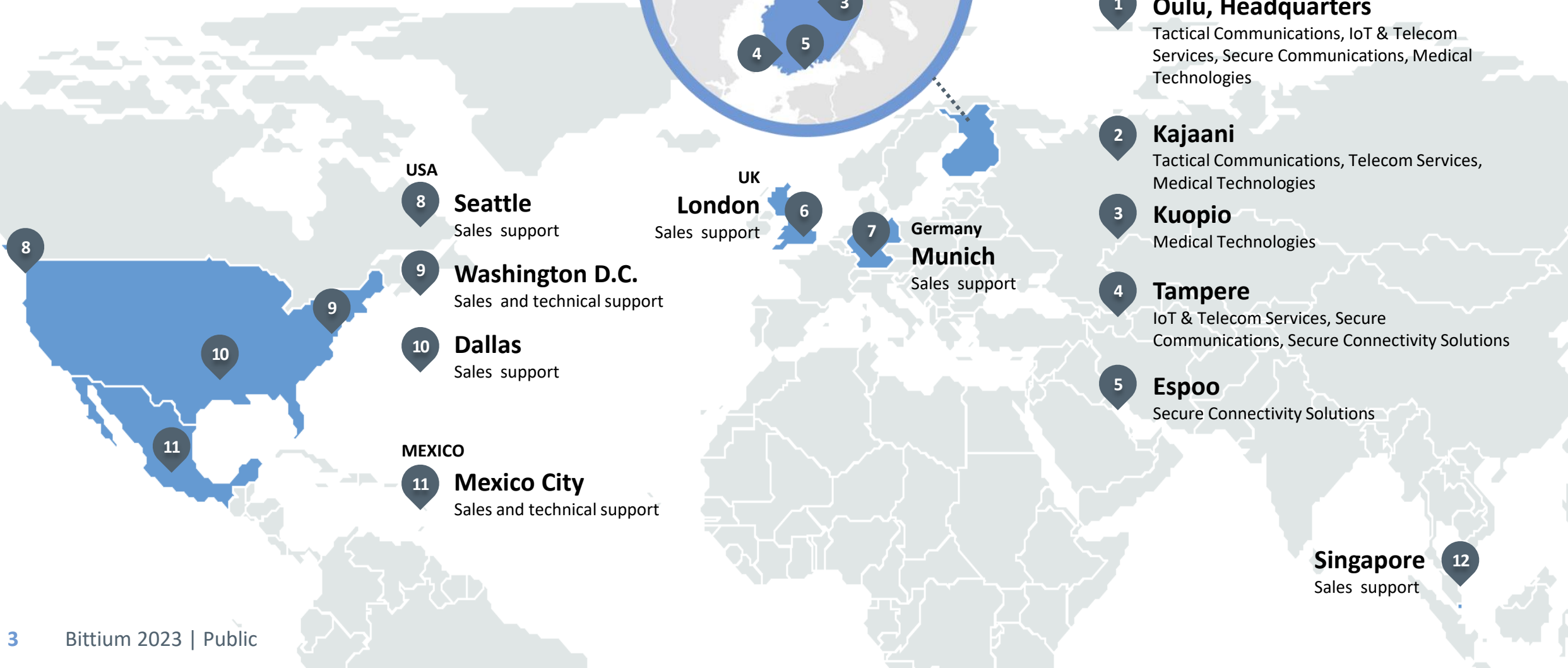
About Bittium

Bittium is a high-tech company specializing in Secure Connectivity, R&D Services, Tactical Communications and Medical Technologies.

Key Figures



Locations



Bittium Connectivity Solutions

[Youtube presentation](#)



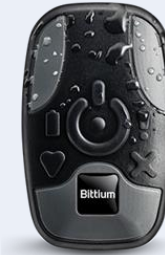
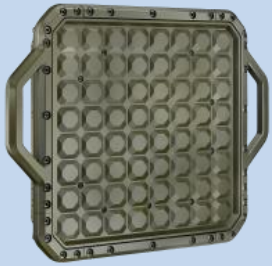
Bittium

Product and Service Areas



Bittium

Nearly 40 Years of Experience



- **Nearly 40 years** of defense technology experience in domestic and international R&D projects
- **Technology leadership in tactical communications** with advanced SDR and IP based products & systems
- **Founding Member** of European military SDR project ESSOR
- **Secure mobile communications and connectivity** solutions certified by NCSC-FI up to CONFIDENTIAL security level
- **Developer of world's first satellite-terrestrial smartphones** without external antennas
- **100+** R&D projects for different handsets, several turnkey mobile phones in 3G, 4G, 5G and satellite
- **350+** R&D projects for radio elements throughout different mobile network generations
- A world leading service and technology provider for **mobile technologies**
- **Mastering the Android ecosystem** with Bittium's secure smartphones and R&D projects
- **Forerunner in industrial IoT** and wearable technologies
- **ISO 13485 Certified R&D services** for healthcare & medical sector
- Innovative, CE and FDA approved cardiac monitoring device with **the best ECG signal in the market**
- Over 35 years of experience in **high-resolution EEG systems**

Connectivity Enabled

- Bittium Tough Mobile Product Family
- Special Devices
- Secure Connectivity and Mobile Working

Secure Mobile Communications

- Medical Devices
- Platforms for Biosignals' Monitoring Services and Analysis

Tactical Communications

- Military Radio and Communications Solutions

R&D Services

- R&D Services and Technology Expertise in Wireless Devices
- Network Infrastructure
- IoT Solutions

Medical Technologies

Bittium Products and Services



Tactical Communications – Connectivity Across the Battlefield

Bittium Tactical Wireless IP Network™

Broadband wireless IP backbone network with high mobility for battle groups



Bittium Tough SDR™ product family

Wideband tactical radios for soldiers and vehicles



Bittium Tactical LTE Access Point™

Deployable 4G LTE access to tactical networks



Bittium Tough Comnode™

Versatile device for tactical wired IP networking



Bittium Tough VoIP™ product family

Tactical IP calls and broadband data transfer in demanding conditions

Bittium Tough Mobile™ Product Family

Bittium Tough Mobile™

- ✓ Security certified up to CONFIDENTIAL level
- ✓ 70 customers in 40 countries
- ✓ Available in three variants



For professionals with the highest security requirements

Trusted design and manufacturing in Finland

Military grade durability

End-to-end mobile security together with Bittium Secure Suite™



Bittium Tough Mobile™ 2

- ✓ Next generation tamper detection
- ✓ Unique hardware-based privacy mode
- ✓ Designed to be certified for RESTRICTED and CONFIDENTIAL

Bittium SafeMove® - Highly Secure Remote Access Solution for Mobile Workers

Solid security



Seamless connectivity



Centralized & Device management



Analytics



Ease of use



R&D Engineering Services



System & Architecture
Design



Electronics
Design



Mechanics
Design



Wireless
Design



Software
Design



Testing, Laboratories,
Verification



Digitalization
Services



Transparent, Lean and
Agile Way of Working

Biosignals Measuring and Monitoring



CARDIOLOGY
ECG
HOLTERING
EVENT MONITORING
MOBILE TELEMETRY

NEUROLOGY
EEG
TMS-EEG
FMRI-EEG

Cardio
Reliable precision and flexibility for cardiac monitoring and analyzing.

Neuro
Cutting edge neuro monitoring for the most demanding needs.



Bittium Kajaani



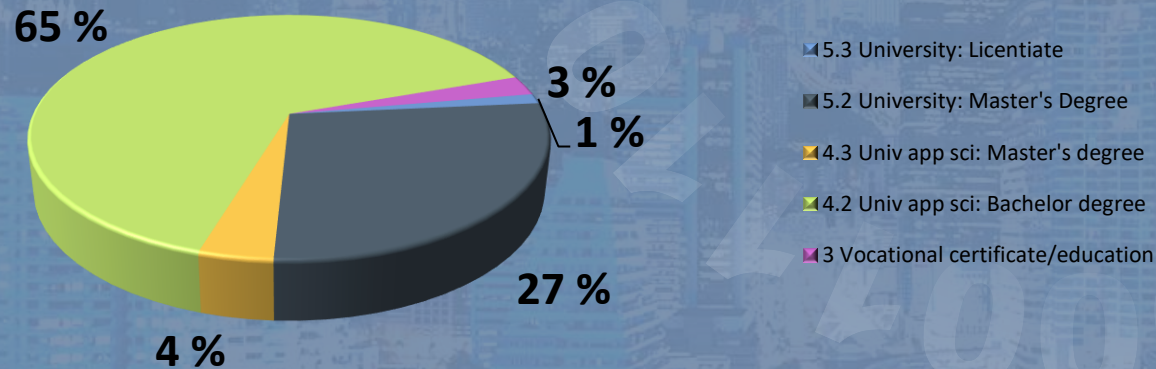
- Established in February 1998
- Location - Renforsin ranta
 - Architect Eino Pitkänen designed building in 1938
- Employees: approx. 80 persons
- Main customers: Secure telecommunication, defence- and authoritative sectors and medical technology
- Our customer projects are linked all over globe due Bittium's versatile technology knowledge

Bittium Kajaani

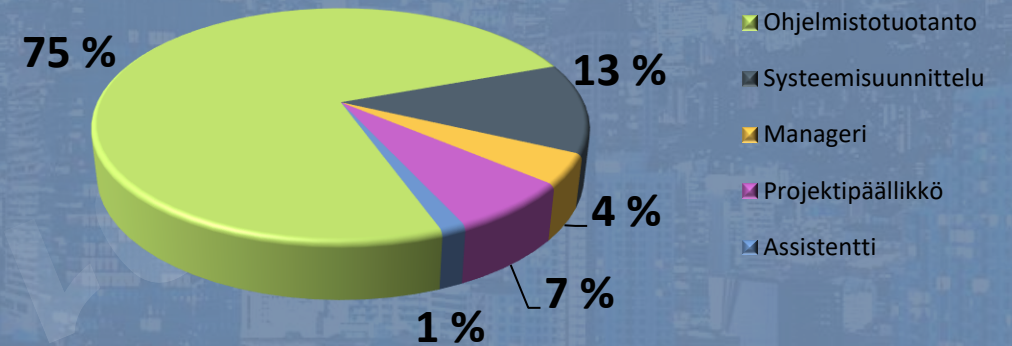
Knowledge / learning

- In high technology areas, continuous competence development and renewal knowledge when necessary
- AI / Machine learning, data-analytics, communication technology (5G, 6G) => solutions for new platforms such as medicine
- Interdisciplinary view, such as medical, physical training and well-being, construction- machinery- and automation

Education



Distribution of roles



Entering into Bittium career

Learning

- In high technology areas, continuous competence development and renewal knowledge when necessary
- To prosper you need to be interested of seeking knowledge, decipher information and know, how to process and share information.
- Interdisciplinary view, such as medical, physical training and well-being, construction- machinery- and automation

Knowledge

- In system- and software design, for example Linux, Yocto, Android, open source, Cloud, C/C++, Python, Java/Java Script/NodeJS, etc
- In device- and platform design, for example Raspberry PI, Arduino, Odroid, server-, switch- and router solutions, different sensors, signals, waveforms, secure coding, RF, LTE/5G/6G etc
- Tools, for example Jenkins, Robot Framework, GIT, Gerrit, Jira, Selenium, RestAPI, Docker, etc

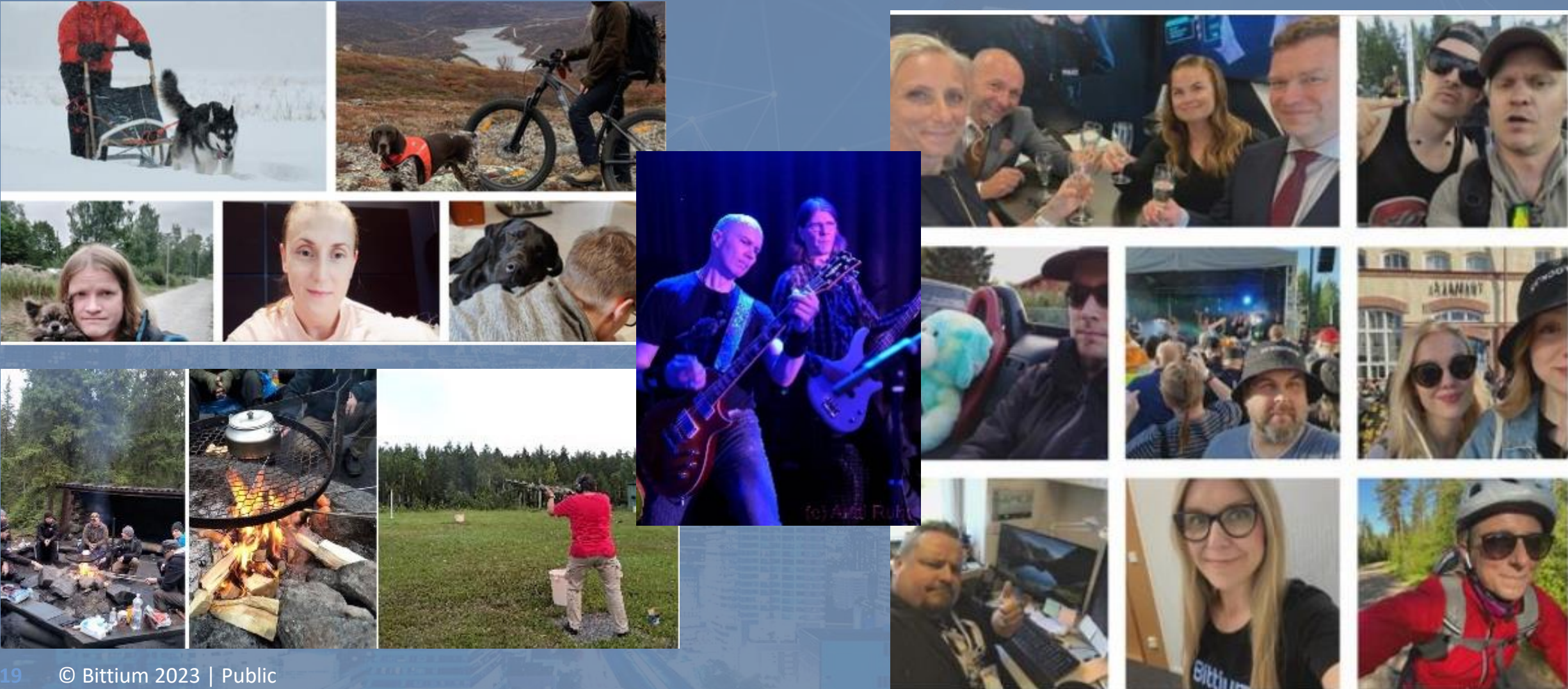
Training and/or working into Bittium

- Bittium find all work assignments inside our R&D projects or in customer projects
- This means that when you pass our recruitment process, you'll find yourself in real tasks inside projects and you can show us your skills and solve problems together with other Bittium experts.
- Training in customer projects or R&D projects is always paid work.
- Remote working is also possible in some customer projects and/or R&D projects either full or part-time.
- Trainees receive same personnel benefits as other Bittium employees (healthcare, lunch, hobbies etc etc)

Opportunities for student

- Training time is easy to extend into summerjob and/or part-time work along with your studies
- During years 2019-2022, 75% of our trainees and graduated are still in employment relationship with Bittium.
- Training time is valueable time to show us your values and knowledge as an employee and valuable time to us as an employer show to you our meaning as an high-tech company and our community and values to you. #bittiumLife

#BittiumLife



Openings

Open positions

- jobs.bittium.com
 - <https://jobs.bittium.com/index.php?id=5691#kajaani>

- More information:

Toni Kinkki (Site Manager)

(KAMK, B.Eng. 2005, working in Bittium since 2006->)

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Bittium