

Business Finland

EU-rahoituksella potkua Terveystieteiden yritysten strategiseen kasvuun

Case Bittium

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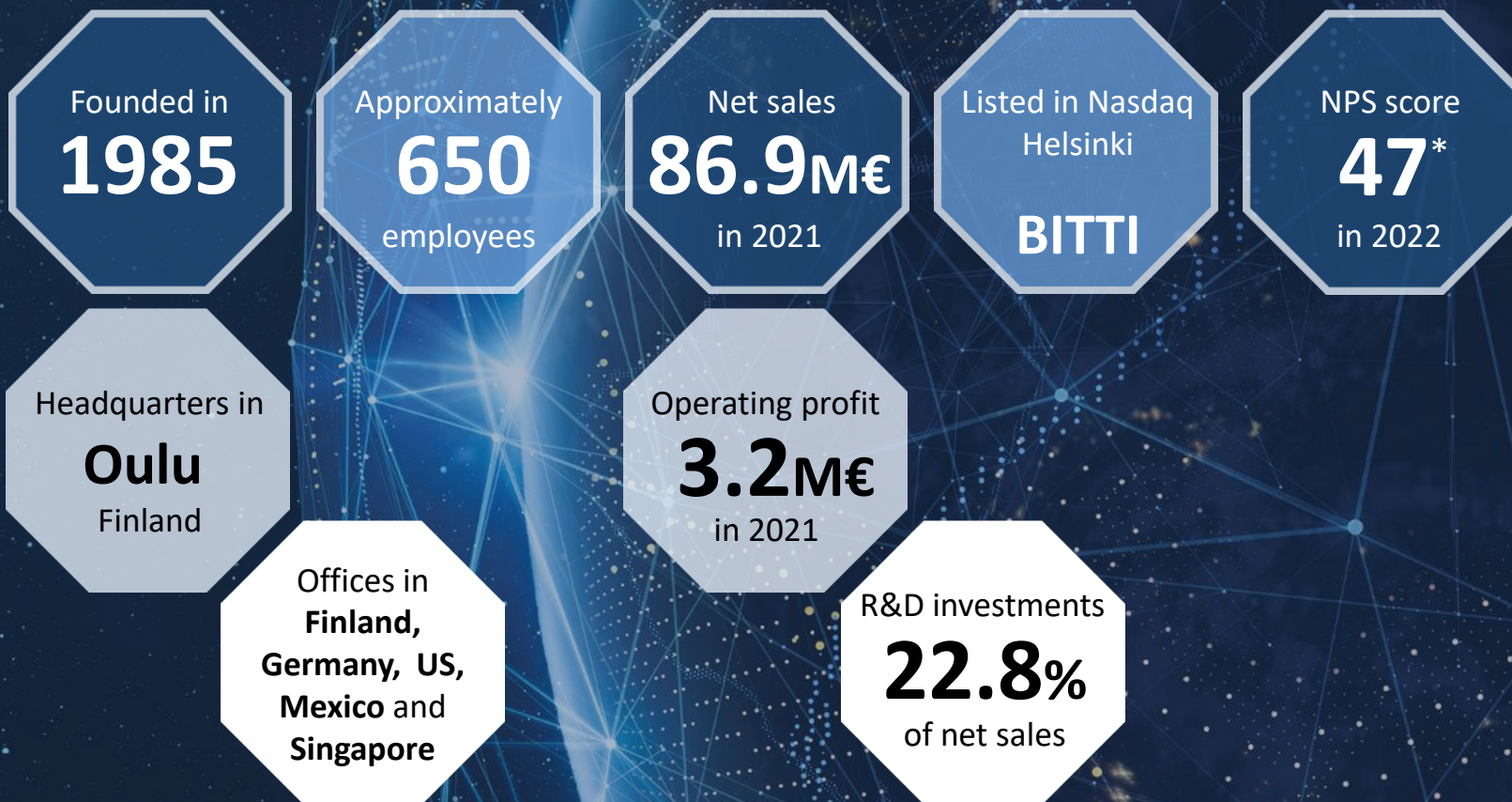


Bittium

About Bittium

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

Key Figures



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 for Demanding Connected Solutions

Medical Technologies

Bittium Products and Services



Biosignals Measuring and Monitoring



Cardiology

Reliable precision and flexibility for cardiac monitoring and analyzing.

Neurology

Cutting edge neuro monitoring with unique ease of use.

Sleep Apnea

Home Sleep Apnea Testing empowered with AI.



Bittium's Internal Guidance for the R&D Collaboration

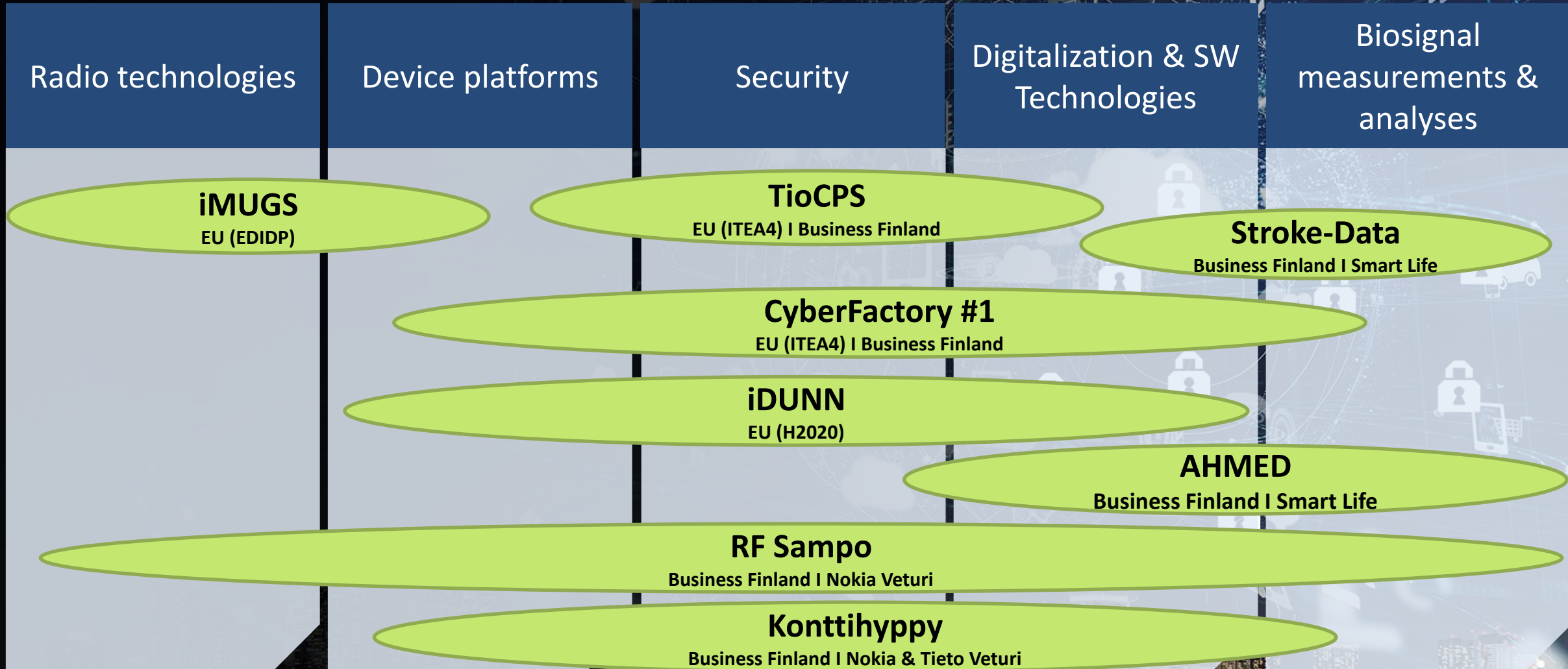
- When considering the importance and justifying a certain R&D collaboration, the following aspects should be highlighted
 1. The importance of the project for Bittium's businesses and growth, e.g. expanding to a new business area
 2. The importance of the topic and Bittium's role in a specific project consortium

Participation into Finnish and EU research project schemes

Bittium perspective

- Bittium has participated over the years into various research project collaboration and funding schemes within EU e.g.
 - TEKES and Business Finland projects, Co-innovation and Veturi projects
 - H2020 and Horizon Europe projects and calls
 - EIT – European Institute of Technology
 - ITEA frameworks (Currently ITEA4)
 - Celtic
 - ECSEL JU and Key Digital Technologies (KDT)
 - Defense consortium projects including e.g. EDA, EDIDP, EDF
- Key themes have been; RF technology evolutions, biosignals measurement, security and lately topics like digitalization from end-to-end perspective (from device up to cloud)

Examples of research areas and projects within various R&D research networks



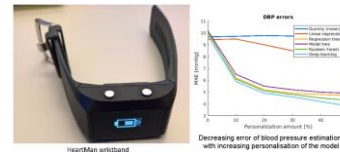
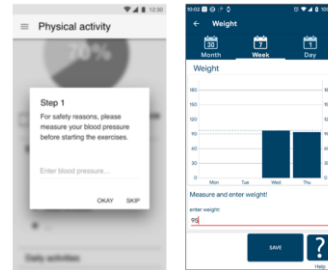
Example cases from Medical Horizon 2020 projects

<http://www.women-up.eu/> (Cost Effective Self-Management of Urinary Incontinence) (Horizon 2020)

- Duration: 2015 – 2018
- Objective of the project was to develop and clinically validate a solution with which to improve the quality of life of UI patients.
- The system allowed self-management of the disease, pelvic floor muscle training at home as well as lifestyle recommendations and remote supervision by health care professionals.

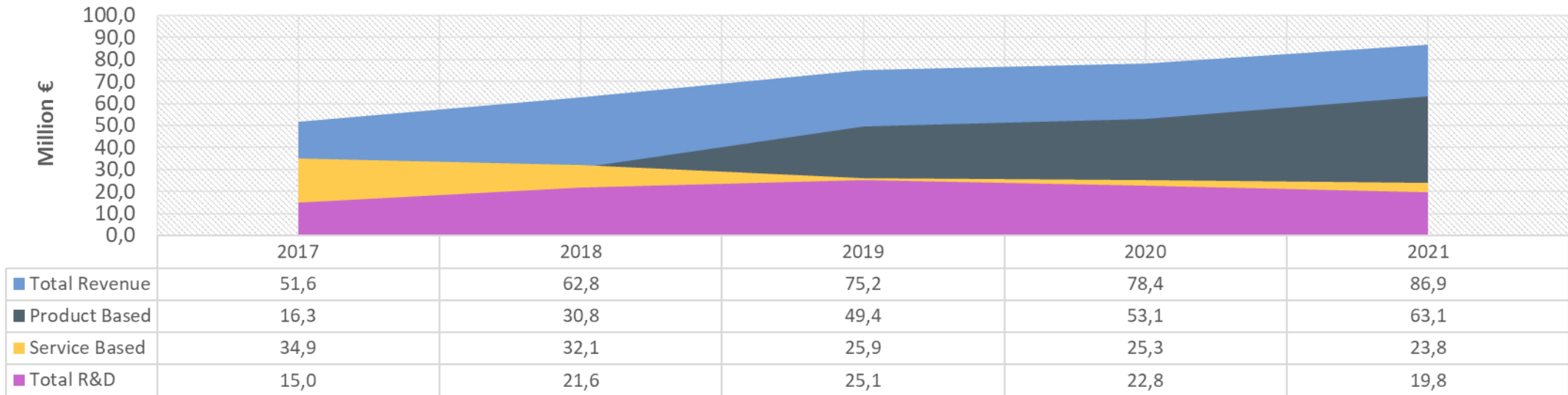
<http://heartman-project.eu/> (Personal Decision Support System for Heart Failure Management) (Horizon 2020)

- Duration: 2016 – 2018
- The project developed a personal health system to help CHF patients manage their disease.
- It provided personalized advice to the patients utilizing evidence-based predictive models that can improve the predicted outcomes of patients.
- The system featured advanced health devices and monitoring methods to understand the physical and psychological state of patients.



R&D and Research impact to Company Growth

Trend 2017 – 2021



- *Product-based sales has grown four fold (4x) during 2017-2021*
- *Bittium's ranking # 494 in EU level R&D investments 2021, # 21 in Finland*
- *#2 in R&D intensity in Finland and #121 in EU (Source EU R&D Scorecard)*

Summary

- ✓ The technology and business linkage creates possibility to determine emphasis for potential research projects.
- ✓ Networking in research projects creates possibility to research to validate the ideas and concepts with academia and industry
- ✓ In Medical special case is the involvement of various Hospital and Health actors with the research
- ✓ Networking with universities and VTT within domestic projects creates possibilities for participation into international research projects with top companies and universities
- ✓ Participation into research projects enables potential for revenue and export growth in the long term – notifying the path to products in Medical incl. certifications and requirements like MDR
- ✓ In EU projects typical project acquisition success is 5-10% but highly dependant on the consortiums involved – patience for preparation is required!!!

Questions ?

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