5G VIDEO ROBOT IN CORONA WARD

elis HUS*



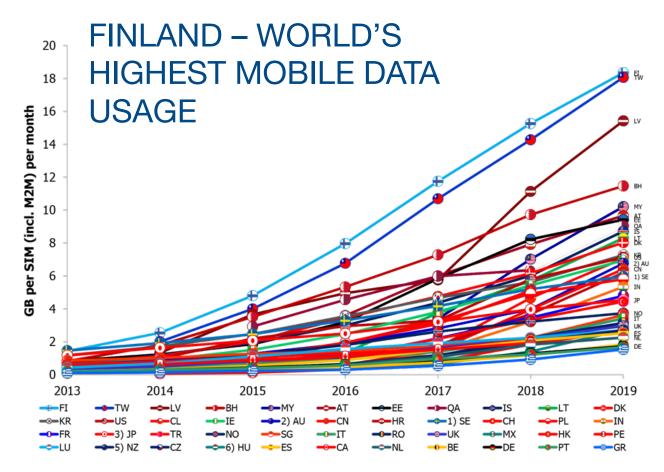
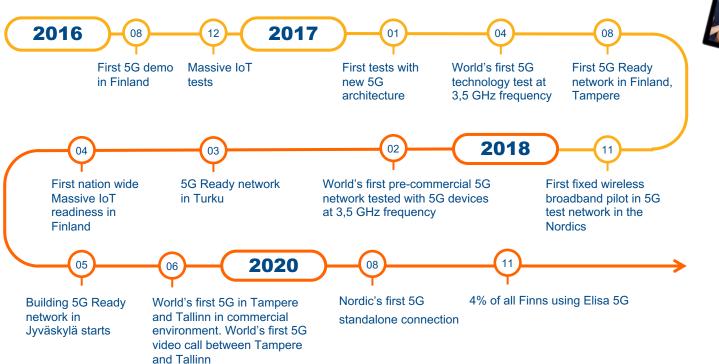


Figure 1. Development of mobile data usage per SIM (incl. M2M) per month – the legend shows the ranking





GLOBAL FORERUNNER IN 5G TECHNOLOGY





CREATING A SUSTAINABLE FUTURE WITH 5G

2021

First in the world – Multiple camera sport live streaming with 5G **2020**

First in the world – Videorobot for COVID-19 treatment at hospital

First in the world – 6 Gbps Medical Imaging

First in the world – 6 Gbps Gaming platform

First in Finland - Microsoft xCloud in 5G

First in the world - 5G 8K VR 360 live streaming in remote education

First in the world - 5G 8K VR 360 live streaming from a drone

First in the world - 5G remote control of a tractor with VR view

First in the world - 5G cloud streaming build environment 3D models

First in the world - 8K-resolution 3D movies through 5G

First in Finland - 5G VR for teenagers for preventing exclusion

2019

First in Finland - 5G drone television broadcasting

First in Europe - 5G Robot hand

First in the Nordics - Optimised 5G cloud gaming experience

First in Europe - 5G on telepathology

First in the world - 12K VR broadcasting in 5G

First in the Nordics - 5G drone

First in Finland - 5G Virtual reality for elderly

First in Finland - 5G mobile transportation hotspots

First in Finland - 5G 4K broadcasting

First in the world - 5G Cafe hotspots



REMOTE CONTROL AND SUPERIOR VIDEO QUALITY -**KEY FEATURES OF 5G**







8 K LIVE VIDEO WITH MACHINE LEARNING



4K MULTIPLE CAMERA SUPERVISION



TELEPATHOLOGY



REMOTE CONTROL



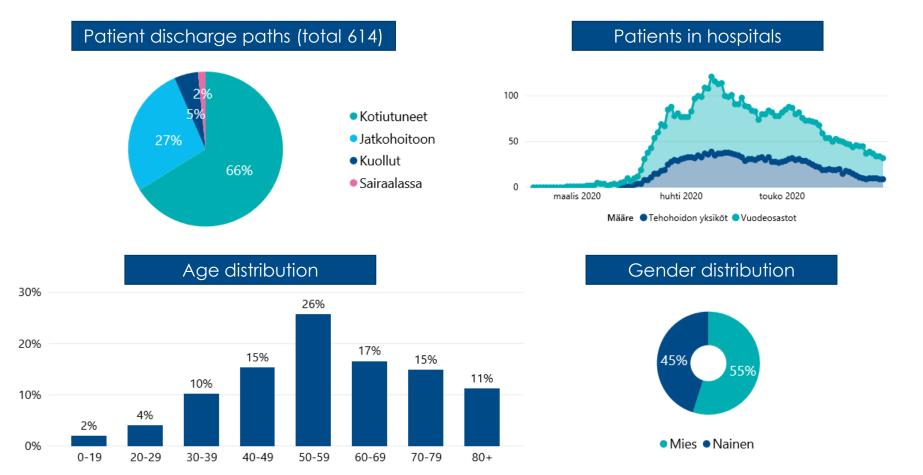






HUS COVID-19 PATIENTS DURING 1ST WAVE





ORGANIZATION AT HUS DURING PANDEMIC

Goals

- Ensure that all COVID-19 patients are treated individually, ethically and with highest medical standards
- Not to forget other patient groups and medical needs during COVID-19 pandemic.

HUS leadership organized according to highest preparedness level ("wartime organization").

At highest, about 2000 employees were involved with COVID-19 tasks (treatment and supporting activities)

About 1500 employees were transferred to work in another unit than their normal



SURGICAL HOSPITAL (KIRURGINEN SAIRAALA) WITH DEDICATED COVID-19 WARDS







Videorobot tested at COVID-19 cohort with 10-12 beds in the same room

- nurses, physicians, pharmacists
- communication, remote rounds, research recruitment, ...





THANK YOU!



Elisa 5G video robot service 306 €/month Hannu.Merilainen@elisa.fi +358505887402

