5G First Steps

A truly connected tomorrow

Ingeborg Øfsthus | CTO Telenor Norway
Average speed Telenor Norway today: 72.05 mbps

Global average speed: 22.93 mbps
8002 base stations

80% of all data traffic in Norway runs through Telenor's infrastructure
**NB-IoT Coverage**
99.3% population
77% area

**LTE-M Coverage**
99.4% population
81% area

LTE-M & NB-IoT
Why do we need 5G?
5000%
Aggregated data growth from 2013 to 2023
Three unique qualities of 5G

- Faster and more efficient
- Reduced latency
- Customized network quality with slicing
Network Slicing enables different verticals on a shared physical network.
The Kongsberg Pilot

Opened November 8th

Three 5G-basestations

100 MHz @3.5 GHz customized for 5G NR

10 MHz @1.8 GHz redistributed for the pilot-network
Emergency network
Remote healthcare
Testing out new possibilities with The Norwegian Air Ambulance Foundation
5G enables further development of autonomous vessels and vehicles.
New business opportunities
Meet the Ruud family

One of the 5 families in Kongsberg to test 5G at home
The 5G timeline

- **2018**: Prepare pilots
- **2019**: Pilots
- **2020**: Prepare commercial launch

**First 5G Connection in Kongsberg**
24th September 2018

5G Vinni Project | Research
Telenor leading the way for a pan-european research project
Key beliefs

More efficient way to meet capacity growth

Needed for new services and verticals

Replace legacy services

First mover-position gives greater commercial potential
Thank you!