

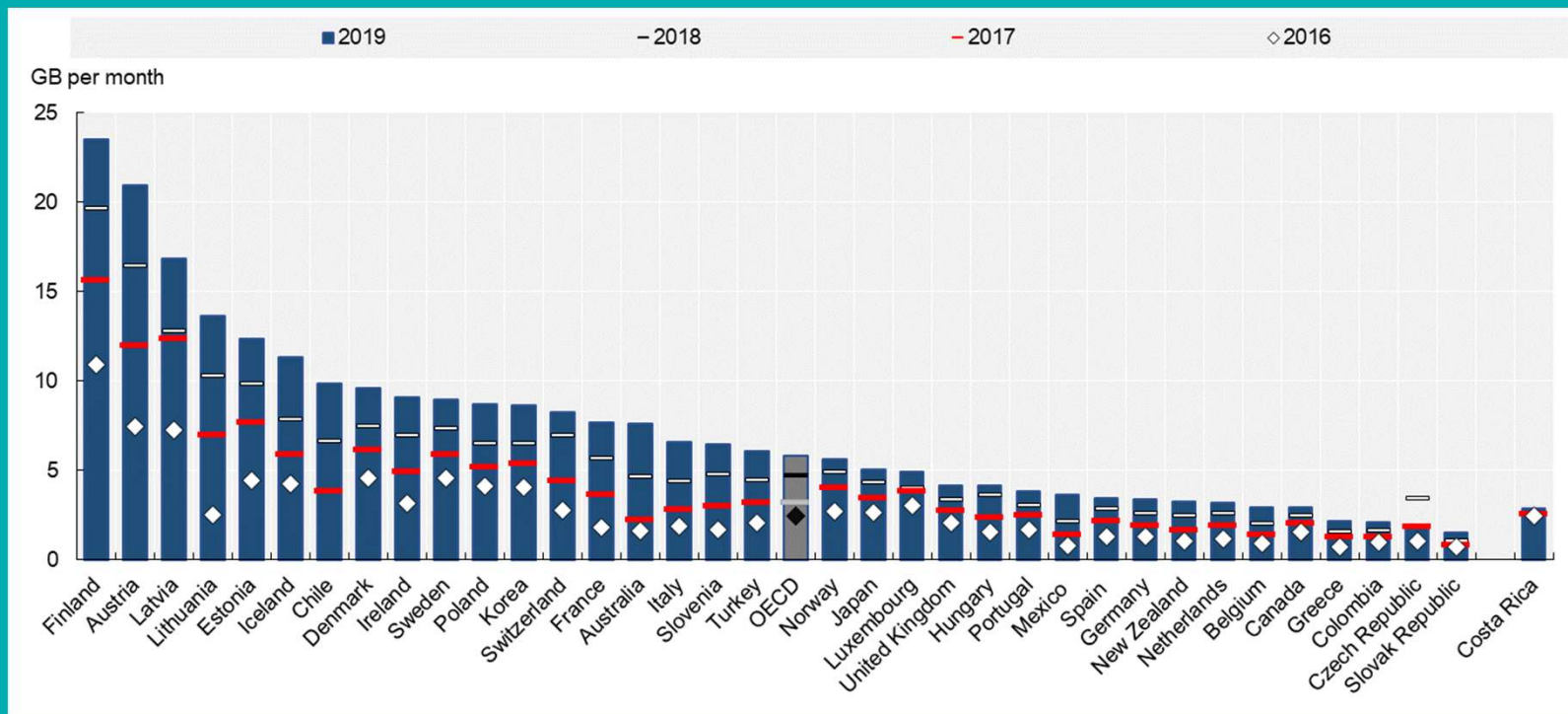
5G in Finland

#5GMomentum



Mobile Data Usage in OECD Countries

Data consumption per mobile broadband subscription per month



Source: OECD Broadband Statistics,
<https://www.oecd.org/internet/broadband/broadband-statistics/>

Frequencies Allocated for Mobile Networks in Finland

450 MHz

452.425-456.925 MHz /
462.425-466.925 MHz

700 MHz

703-733 MHz /
758-788 MHz

800 MHz

791-821 MHz /
832-862 MHz

900 MHz

880-915 MHz /
925-960 MHz

1800 MHz

1710-1785 MHz /
1805-1880 MHz



2 GHz

1.92-1.98 GHz /
2.11-2.17 GHz

2.3 GHz

local 2.30-2.32 GHz

2.6 GHz

2.50-2.69 GHz

3.5 GHz

3.41-3.80 GHz

26 GHz

25.1-27.5 GHz

25 GHz

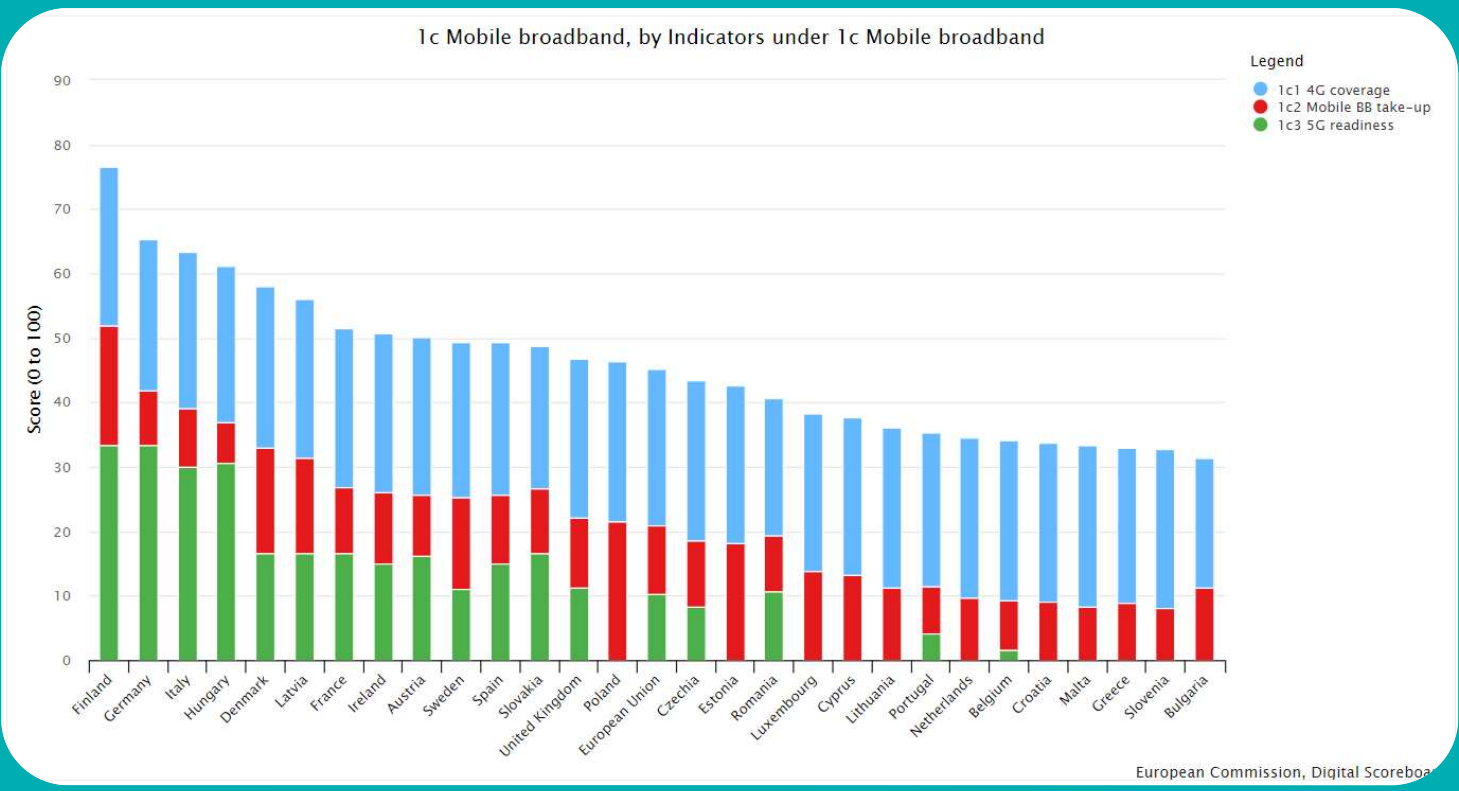
local 24.25-25.10 GHz

Coming

40.5-43.5 GHz

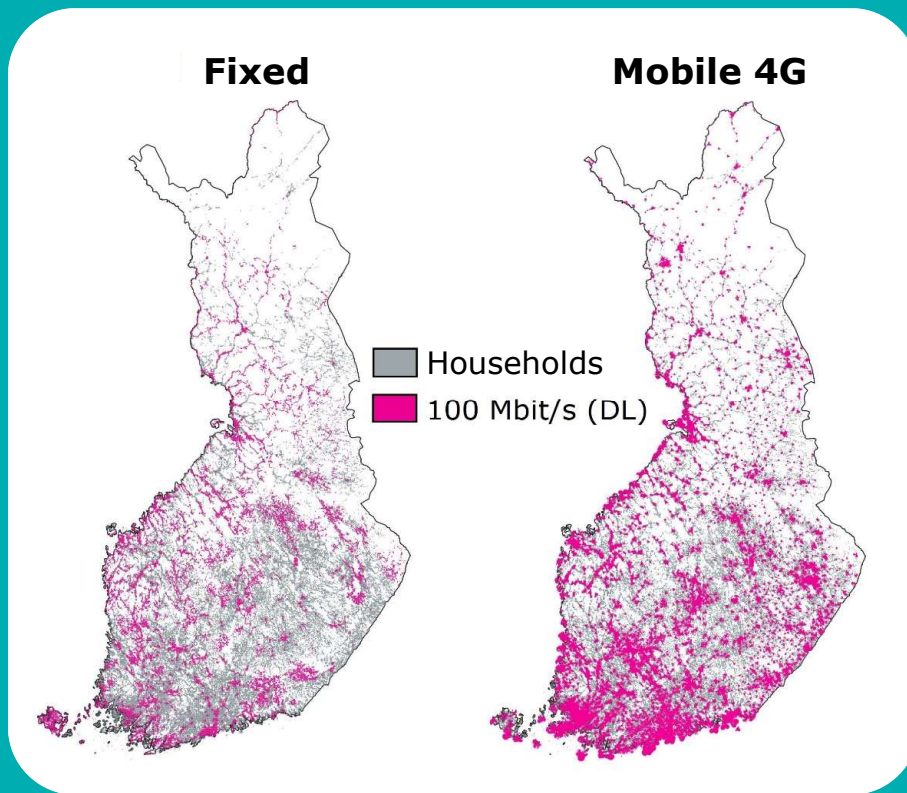
66-71 GHz

Finland First in European Mobile Broadband Index, DESI 2020



5G readiness: assigned spectrum as a % of total harmonized spectrum

Broadband Availability in Finland, December 2019



75%
of households
30 Mbps
fixed broadband

64%
of households
100 Mbps
fixed broadband

47%
of households
1,000 Mbps
fixed broadband

38%
of households
FTTB/FTTH
fibre-optic

99%
of households
30 Mbps
4G mobile broadband

93%
of households
100 Mbps
4G mobile broadband

5G Readiness in Finland

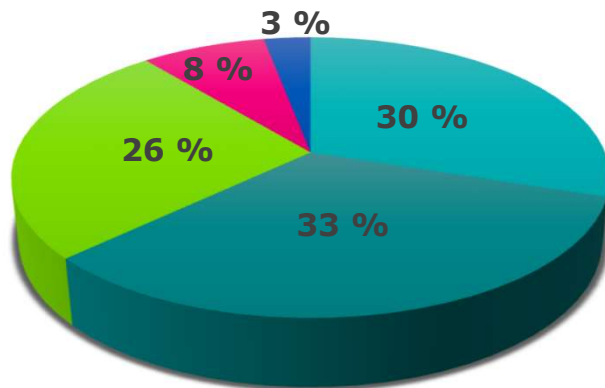
- ▶ 4G networks with full national coverage (over 99% of the population) serve as a solid basis for building 5G
- ▶ Finland was among the first to auction the pioneer frequency bands for 5G (700 MHz, 3.5 GHz and 26 GHz) identified by the European Commission. The auctions took place in 2016, 2018 and 2020.
- ▶ Strong public sector support for research, development and innovation
- ▶ The construction of fibre and 5G is promoted by enabling the shared use of infrastructure and frequencies, fostering joint construction, and supporting the placement of base stations and masts.



Market Shares of Telecommunications Operators in Finland

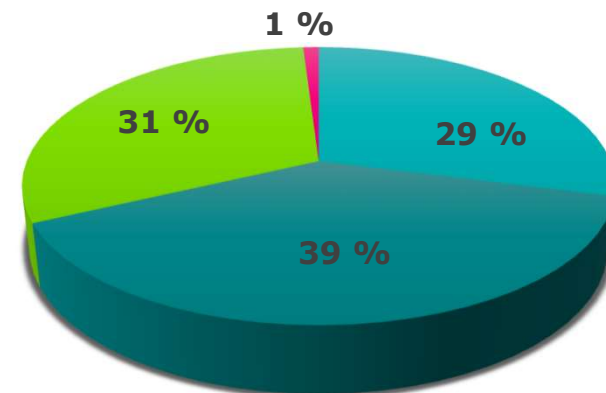
December 2019, all subscriptions

Market shares of fixed-network broadband subscriptions



■ DNA ■ Elisa ■ Telia Finland ■ Finnet ■ Other

Market shares of mobile subscriptions



■ DNA ■ Elisa ■ Telia Finland ■ Other

TRAFICOM

Liikenne- ja viestintävirasto

5G plays an important role in the context of digitalisation, supports sustainable development and the attainment of climate objectives, and makes new kinds of services possible in a number of sectors.

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