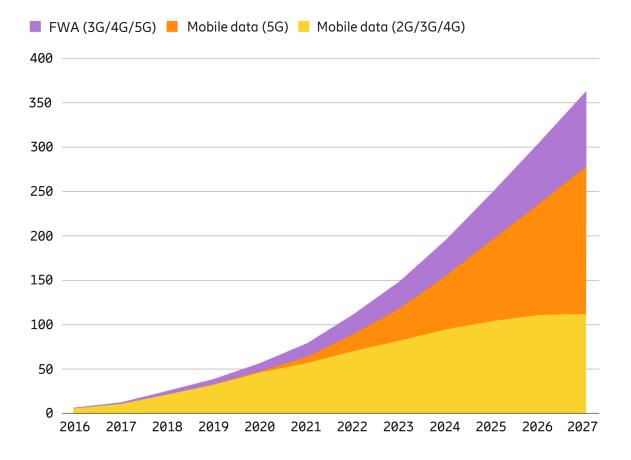
Imagine Possible Breaking the energy curve

Christian Leon VP Head of Networks and Managed Services, Europe & Latin America

Mobile data consumption continue to grow

Global mobile data traffic (EB per month)



40%

Mobile network data traffic grew 40 percent during the last year

69%

Video accounts for 69% of mobile data traffic, expected to grow to 79% by 2027

130%

By 2027 5G will carry 1.3x more traffic than all 2G/3G/4G mobile networks

2x

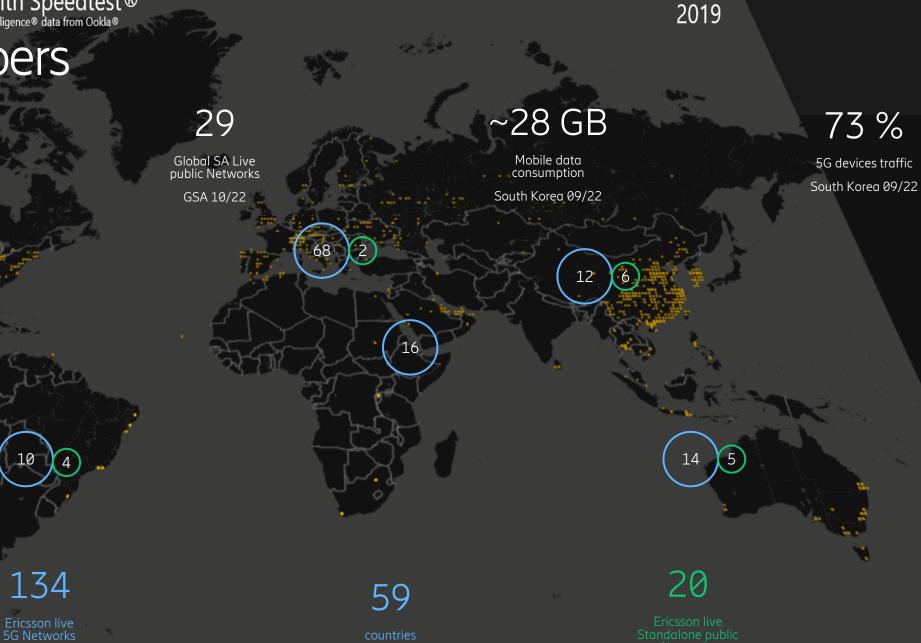
FWA connections will double by 2027, traffic in 2022 accounts for 20% of total mobile data 5G measurements with Speedtest® Source: Ericsson analysis on Speedtest Intelligence® data from Ookla®

10

5G in numbers

Global figures

228 Global 5G Live Networks GSA 10/22



*As of October 2022

Enabling Net Zero

0.2%

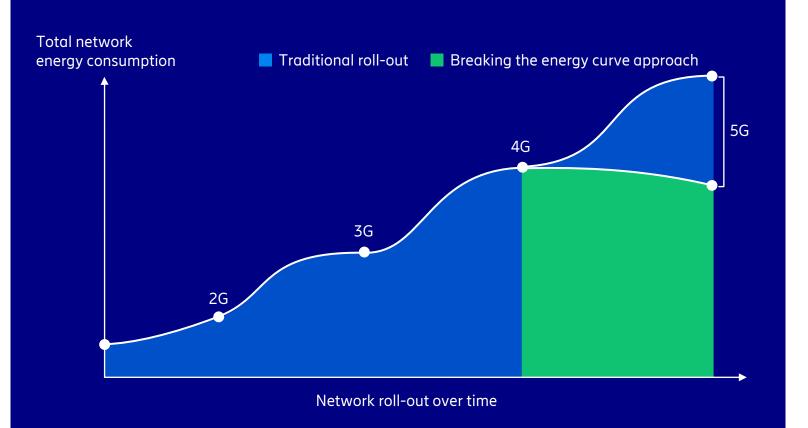
Mobile networks represent around 0.2% of global carbon emissions and 0.6% of global electricity use In order to reach Net Zero, it is important to reduce energy consumption and **break the curve**



Breaking the energy curve

\$25 billion

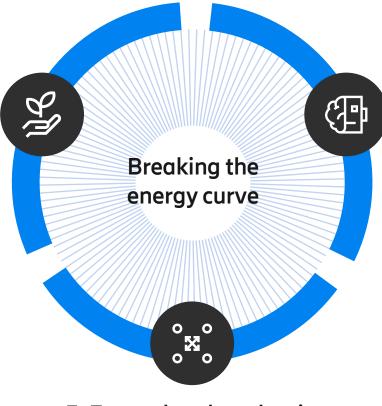
annual energy costs of running mobile networks globally



Ericsson holistic approach

1. Sustainable network evolution

Embrace a holistic view for network planning and operation



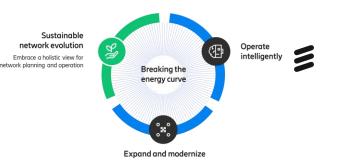
3. Expand and modernize

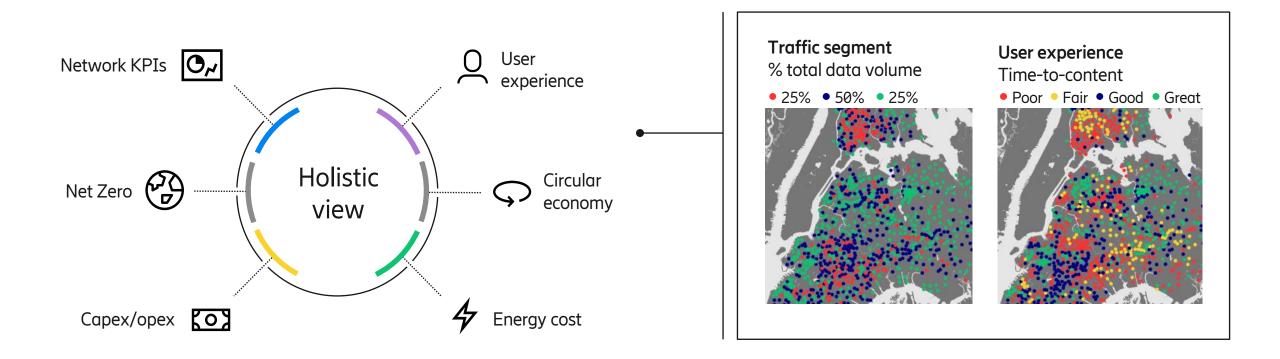
Modernize existing network while scaling up 5G

2. Operate intelligently

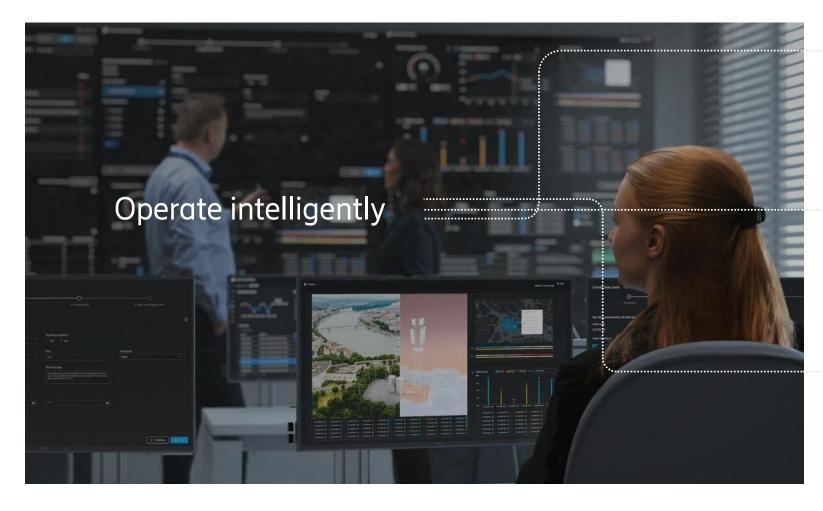
Leverage AI/ML and automation to boost energy savings

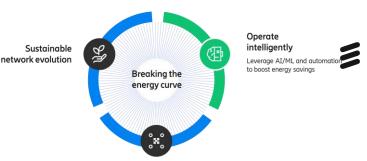
Sustainable network evolution Meeting business targets and sustainability ambitions





Operate intelligently 3 pillars for sustainable network operation





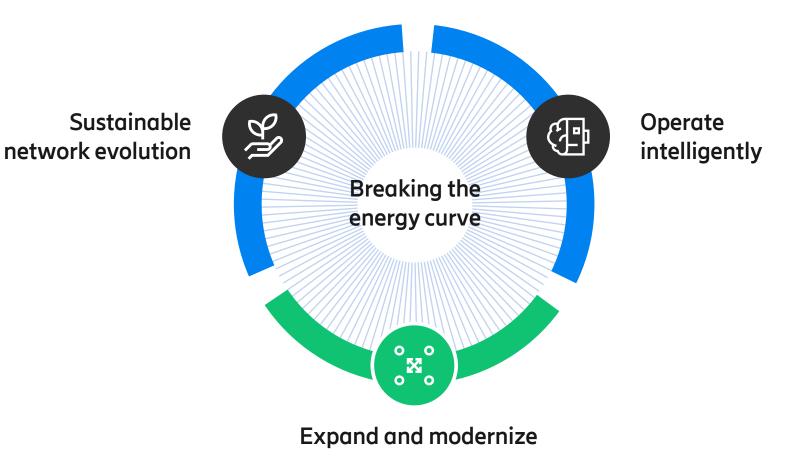
Expand and modernize

• Maximizing the power of data to boost automation

Working holistically on energysaving actions whilst keeping the user experience at optimal levels

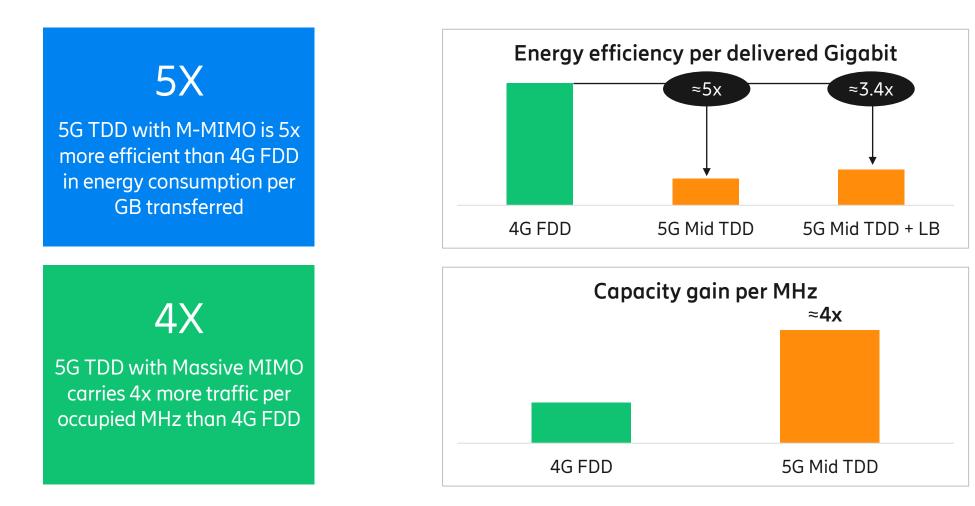
 Achieving sustainable operation through predictiveness, automation and orchestration

Expand and modernize



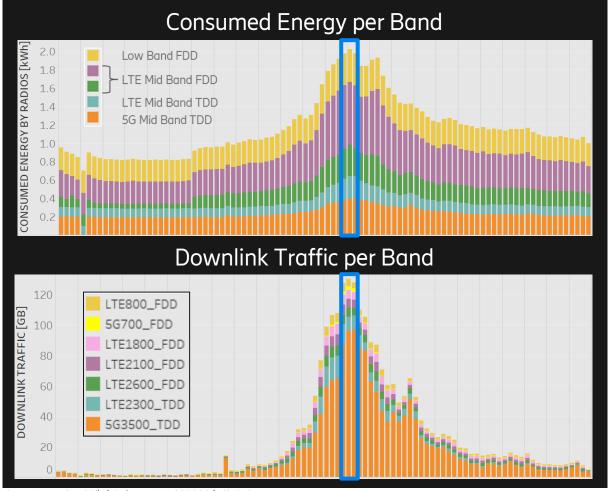
Modernize existing network while scaling up 5G

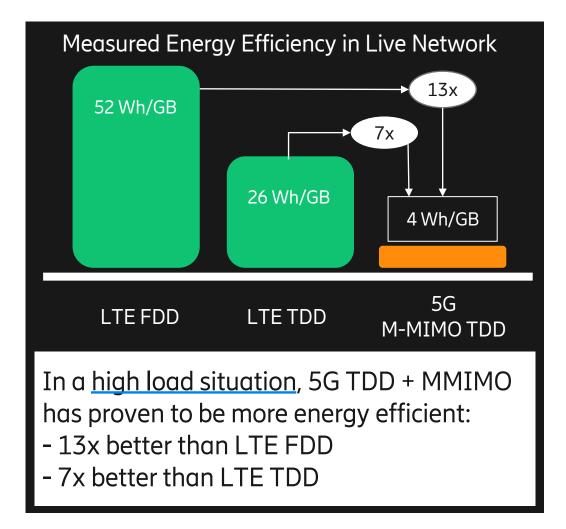
5G is the most efficient 3GPP technology



Capacity simulations with min. user throughput of 10Mbps at cell edge and considering ISD=500m, 2T4R radio for Low Band (2462), 4T4R radio for Mid Band (4480) and 32TRX MMIMO for Mid Band TDD 3.5GHz (3227)

Energy Efficiency with 5G TDD + Massive MIMO Massive live event in Central Europe July 2022 – High Load





Athens, November 29th | Infocom World 2022 | Christian Leon

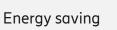
Radio portfolio efficiency on the rise

So far ...

36% Science Based Target Energy saving in Ericsson Radio System vs. legacy portfolio by 2022. (baseline 2016) 36% avera 41% 36%

Results

Targets



Energy saving with Micro sleep Tx

2025 ambition

Aim to reduce radio site energy consumption by (from 2021)

~40%

By supporting a shift to renewable energy, we anticipate radio site emissions reductions up to

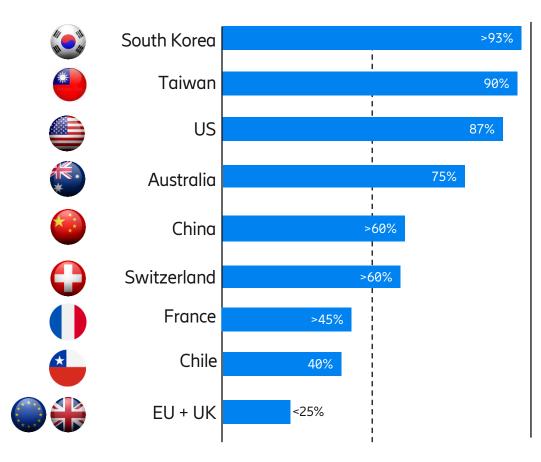
~70%

5G Innovation Platform



5G mid-band TDD deployment updates % of covered population

3Q 2022



Imagine Possible

"Sustainability and corporate responsibility are integral to Ericsson's strategy and initiatives in this area are underpinned by our strong focus on responsible business across the value chain."



Börje Ekholm Ericsson President and CEO



ericsson.com/breaking-the-energy-curve