

# Ericsson environmental sustainability



Ali Cheema

Head of Government & Policy Advocacy Middle East & Africa

# Sustainability & Corporate Responsibility



THE GLOBAL GOALS  
For Sustainable Development



Technology  
with purpose



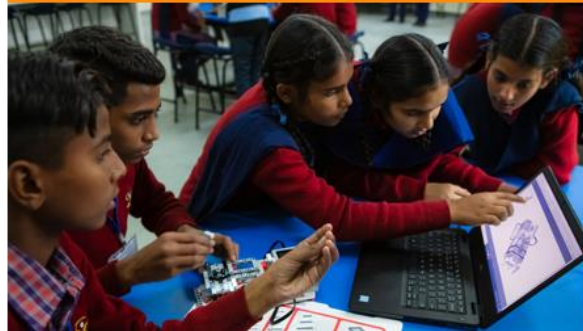
Partnerships  
for progress

Our vision: A world where limitless connectivity improves lives,  
redefines business and pioneers a sustainable future

Environmental  
Sustainability



Digital  
Inclusion



Corporate  
Responsibility



First environmental  
report published

1993

As a champion of WEF's Edison  
Alliance, Ericsson committed to  
positively impact 1 million  
children and youth by 2025

Ericsson set a Net Zero ambition  
across the value chain by 2040

2021

# Ericsson commits to Net Zero emissions by 2040 across the entire value chain



## Supply chain

Halving emissions by 2030, and increase climate action in global supply chains

## Own activities

Reducing emissions to ultimately net-zero emissions by 2030

## Portfolio

Develop and innovate our portfolio to halve emissions by 2030 and support climate action in society

## Society

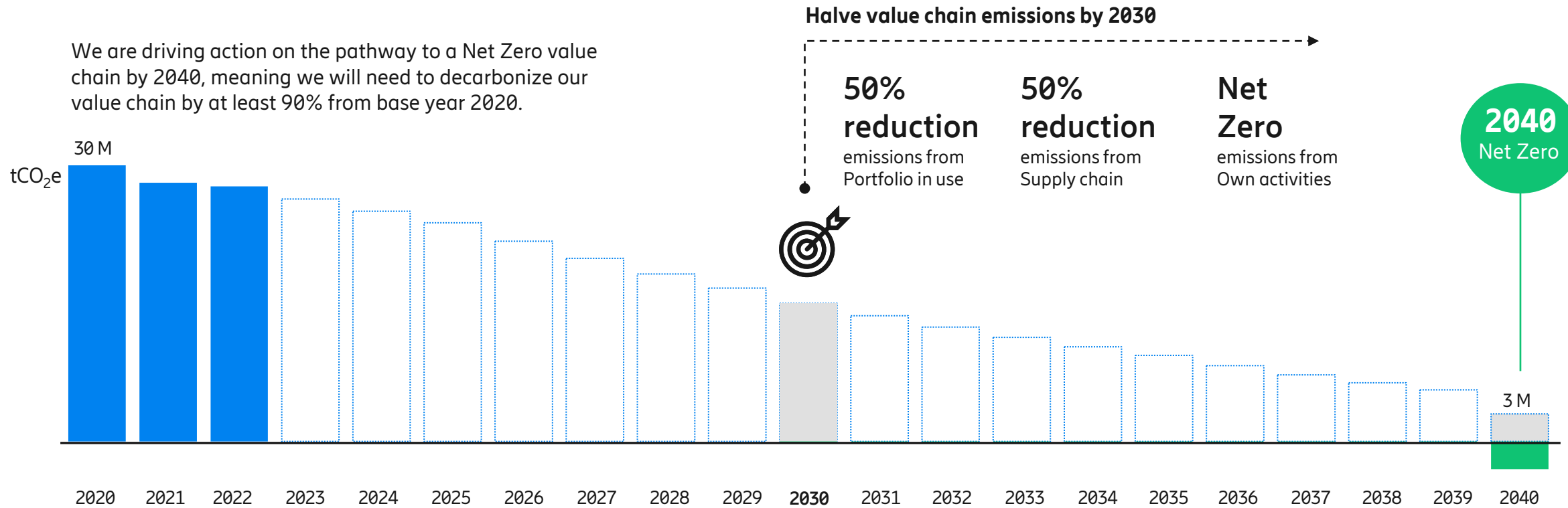
Increase climate action globally through ICT solutions. Digitalization can enable a 15% reduction in global emissions by 2030

How to achieve our  
Net Zero target...

# Ericsson's pathway to Net Zero



We are driving action on the pathway to a Net Zero value chain by 2040, meaning we will need to decarbonize our value chain by at least 90% from base year 2020.



The ITU Net Zero standard provides a standards pathway to achieving our targets

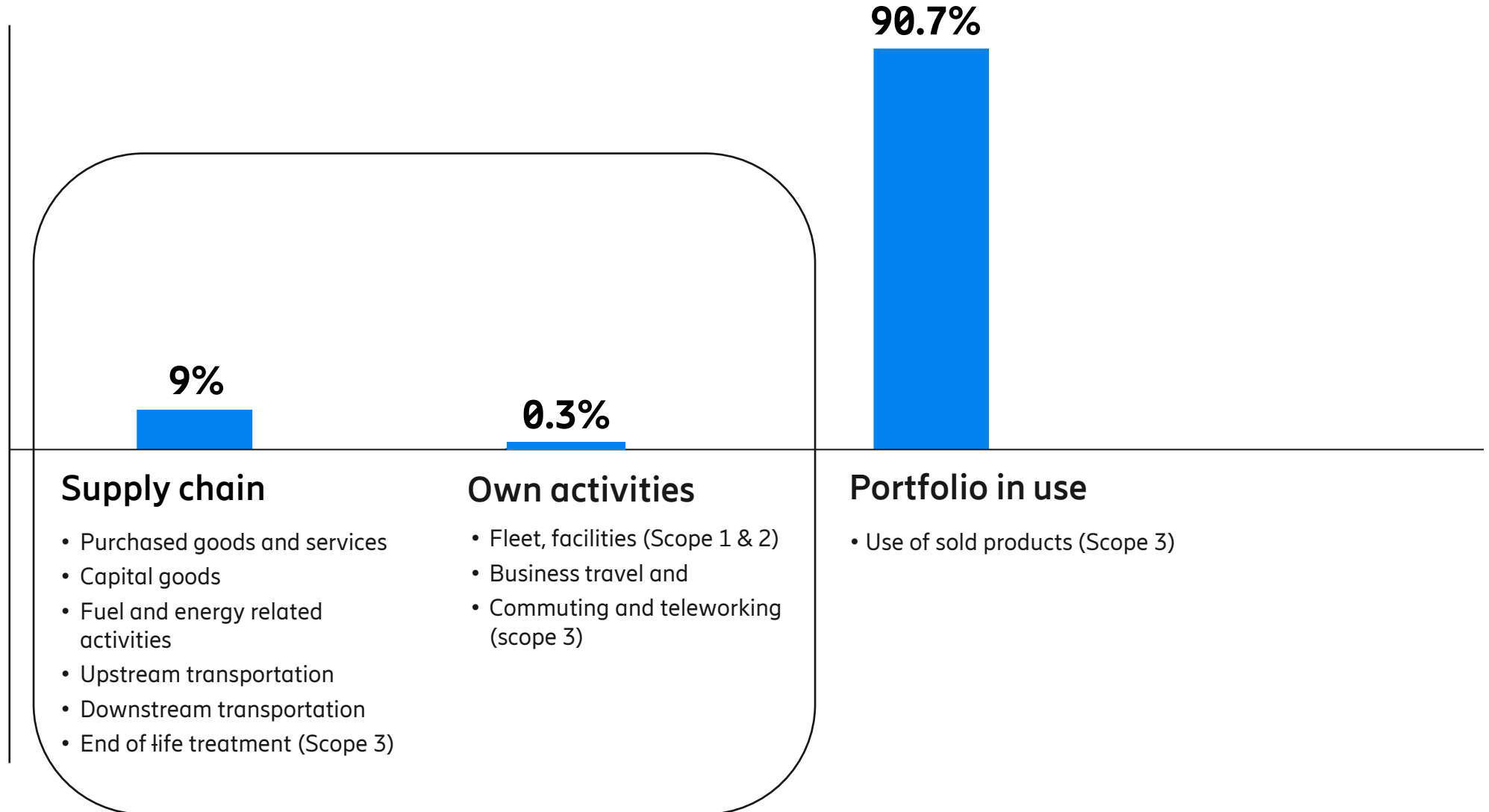
■ Ericsson's carbon footprint
   Indicative trajectory
 ■ Carbon removals
   Targets

# Ericsson 2022 carbon footprint



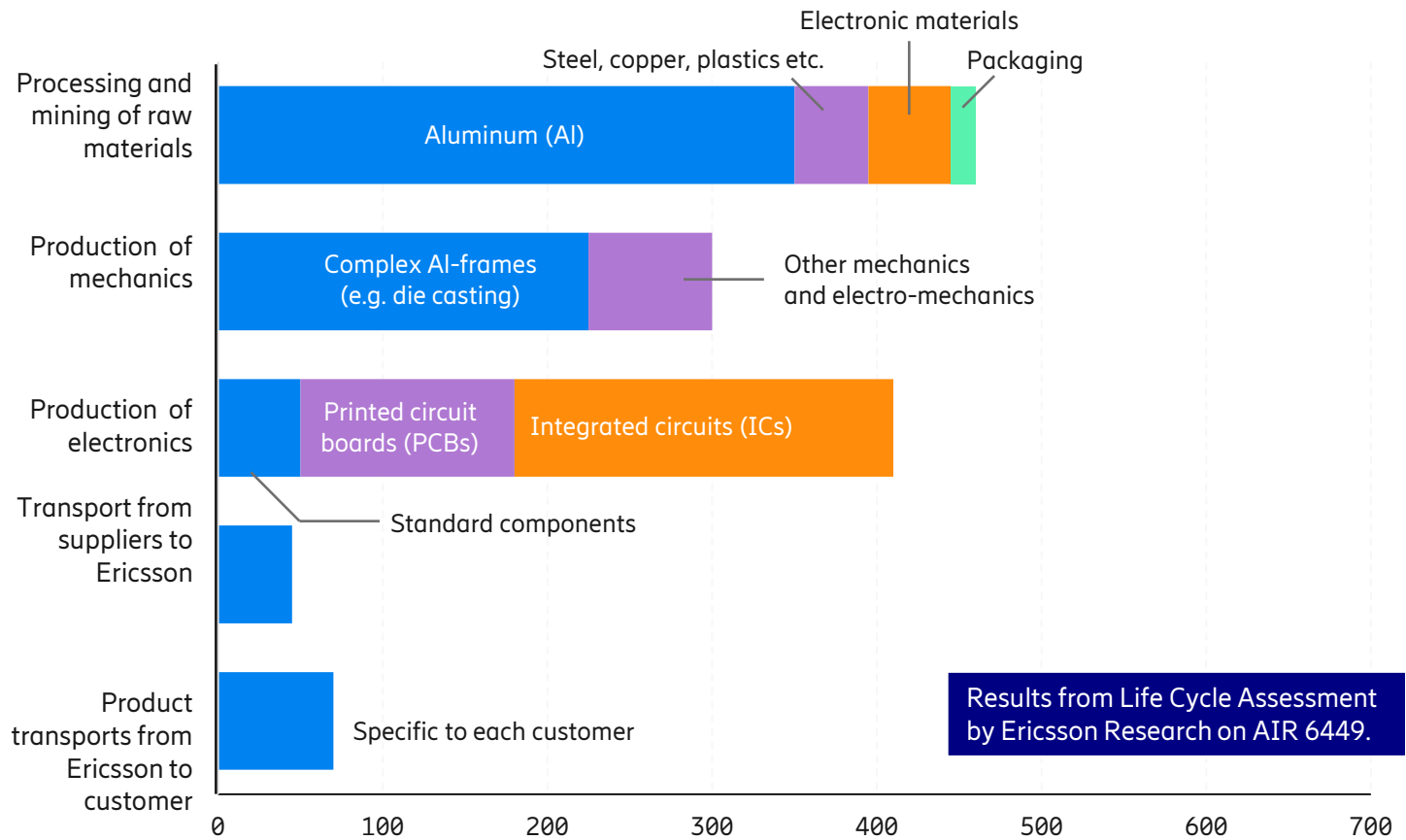
Where we  
are now

GHG  
protocol  
scopes  
included



# Product embodied carbon emissions

## Identifying carbon hot spots using life cycle assessment



### Top 3 areas

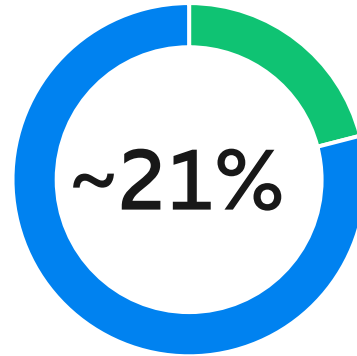
- 01 Raw material processing of aluminium
- 02 Die casting of aluminium
- 03 Supplier production of electronic components such as IC or PCB

Ericsson specifications and design affect suppliers' – collaborative efforts needed to lower carbon emissions.

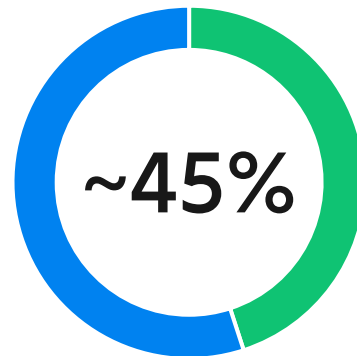
# Improving embodied carbon emissions of products



Embodied carbon\*  
reduction for a newer  
product (M- MIMO 64T)  
compared to an older  
similar product



Embodied carbon\*  
reduction for a newer  
product (Triple mid band)  
compared to an older  
similar product



\* Ericsson estimates the embodied carbon by including all emissions occurring along the supply chain.

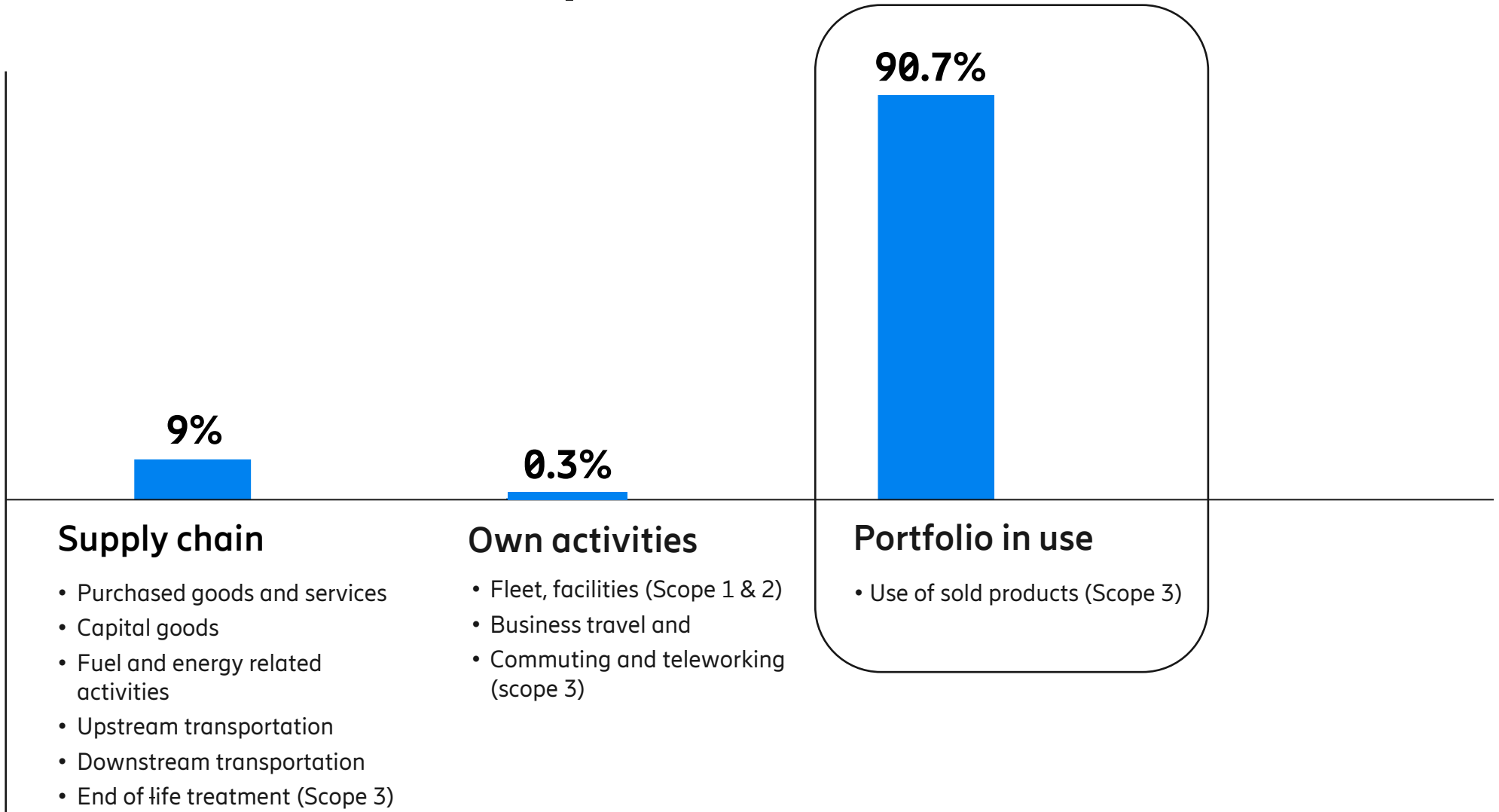


# Ericsson 2022 carbon footprint

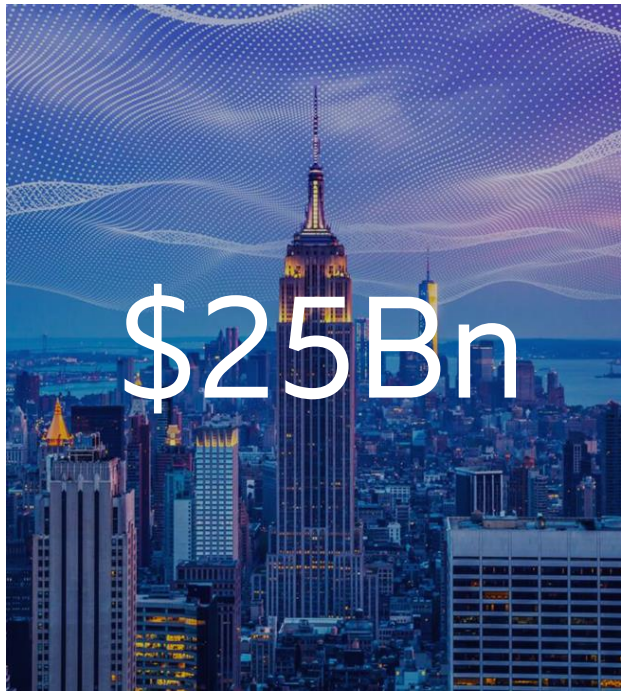
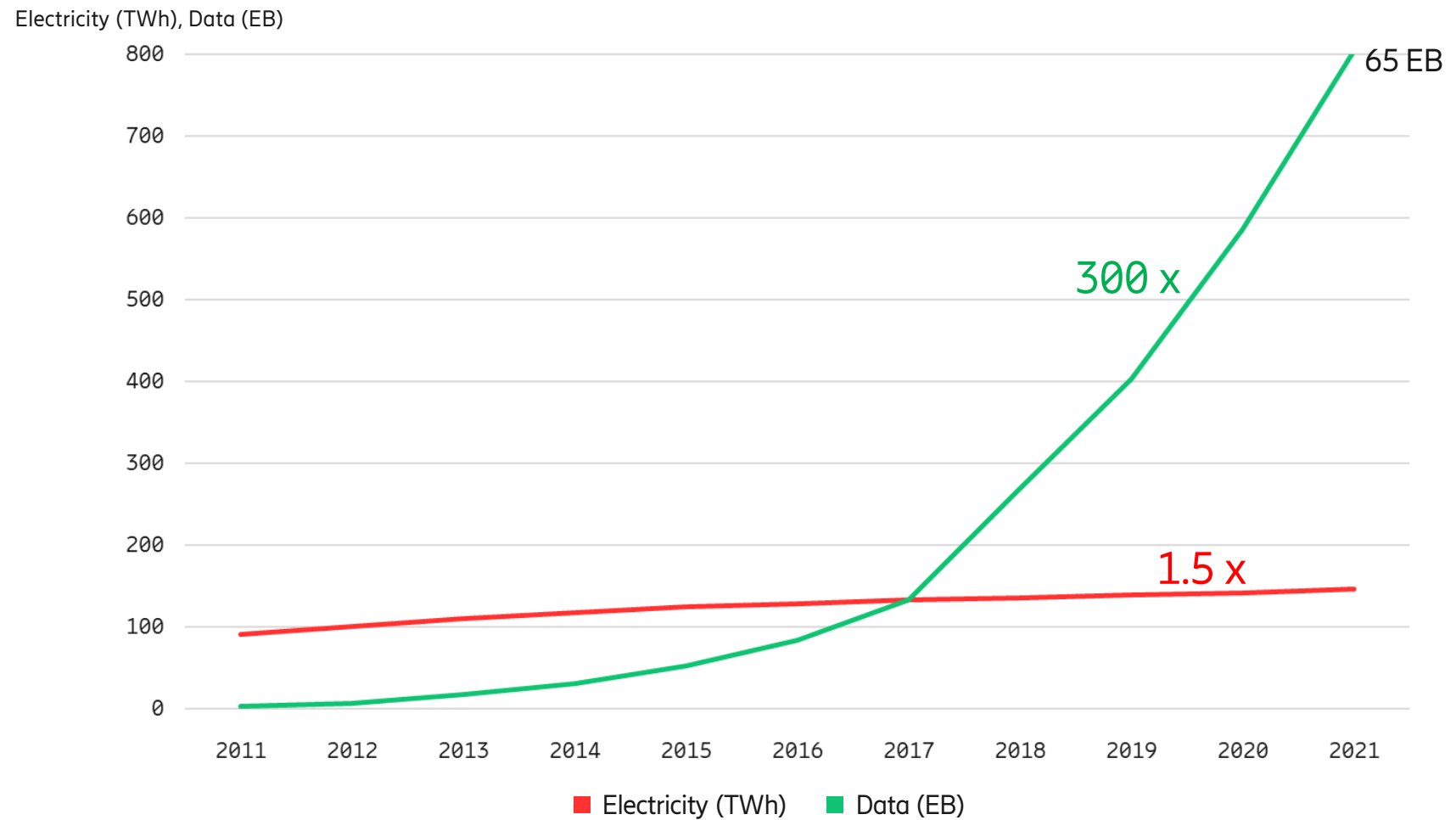


Where we  
are now

GHG  
protocol  
scopes  
included

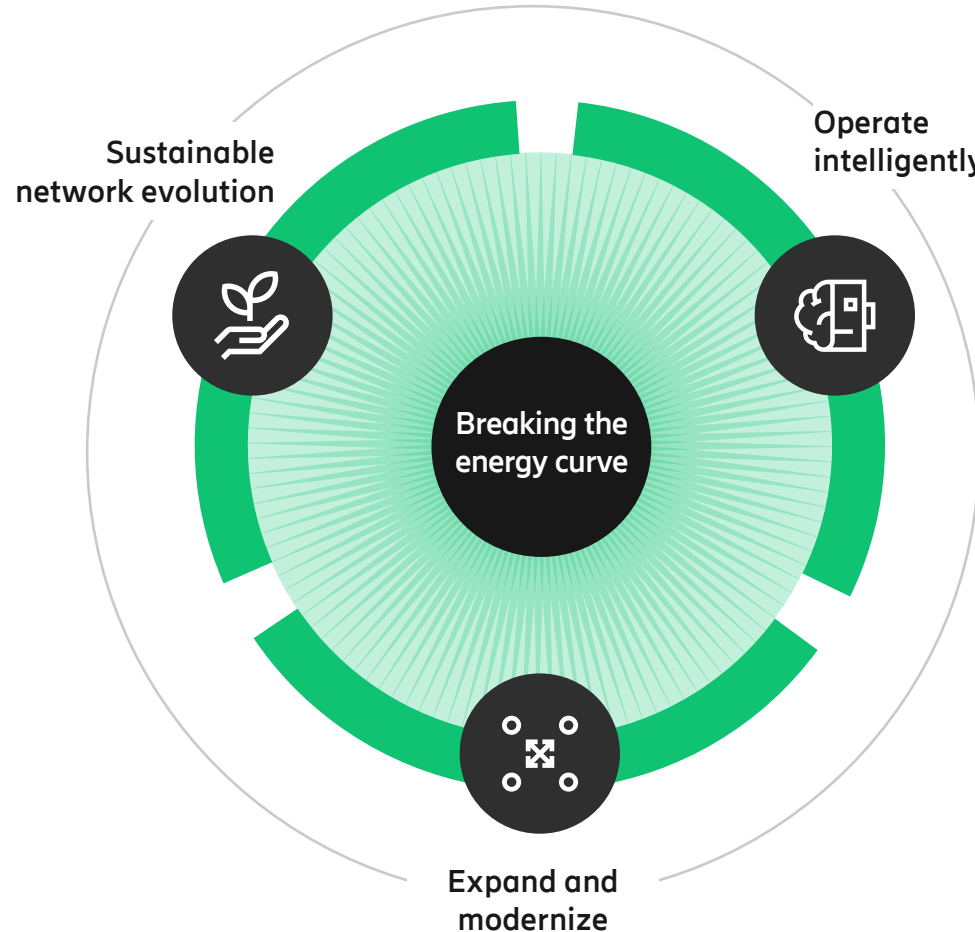


# The current status of mobile networks



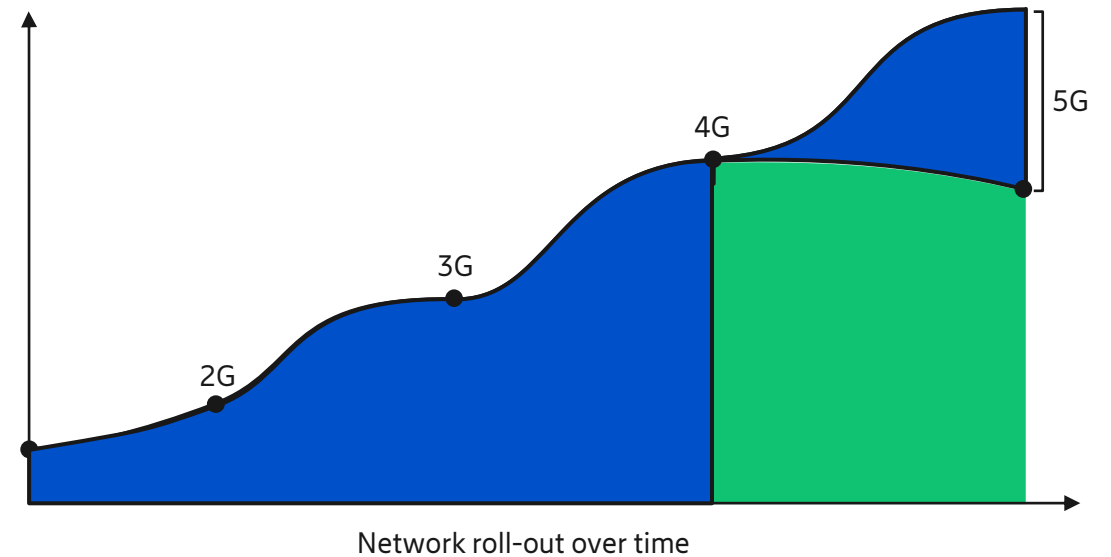
# Breaking the energy curve

Supporting CSPs Net Zero journey



Total network energy consumption

■ Traditional roll-out ■ Breaking the energy curve approach



In order to reach Net Zero, it is important to reduce energy consumption. To break the energy curve, we and the industry need to challenge the way mobile networks are planned, deployed and operated.

# Portfolio in use success stories with customers

**6 radios in 1**

6626 Three-sector and dual band to reduce radio footprint and reduce power consumption up to 50%

**Etisalat UAE**

**9 radios in 1**

6646 Three-sector and triple band reduce power consumption up to 40% compared to triple band single sector

**T-Mobile Netherlands**

**25%**

Lower energy consumption with AI solution to activate dynamically energy saving features with zero impact on performance

**Far-East-Tone, Taiwan**



# Portfolio in use success stories with customers

40%

Lower energy consumption with latest Massive MIMO radios proven with BT UK

28%

Site energy savings with renewables in Deutsche Telekom

3000

metric tonnes of CO<sub>2</sub> emissions reduced annually by saving 25 GWh energy for Rogers Canada with our radio energy saving software



# Digitalization fundamental for sustainability

Le'ts look at the bigger picture ...

# ICT enable climate action

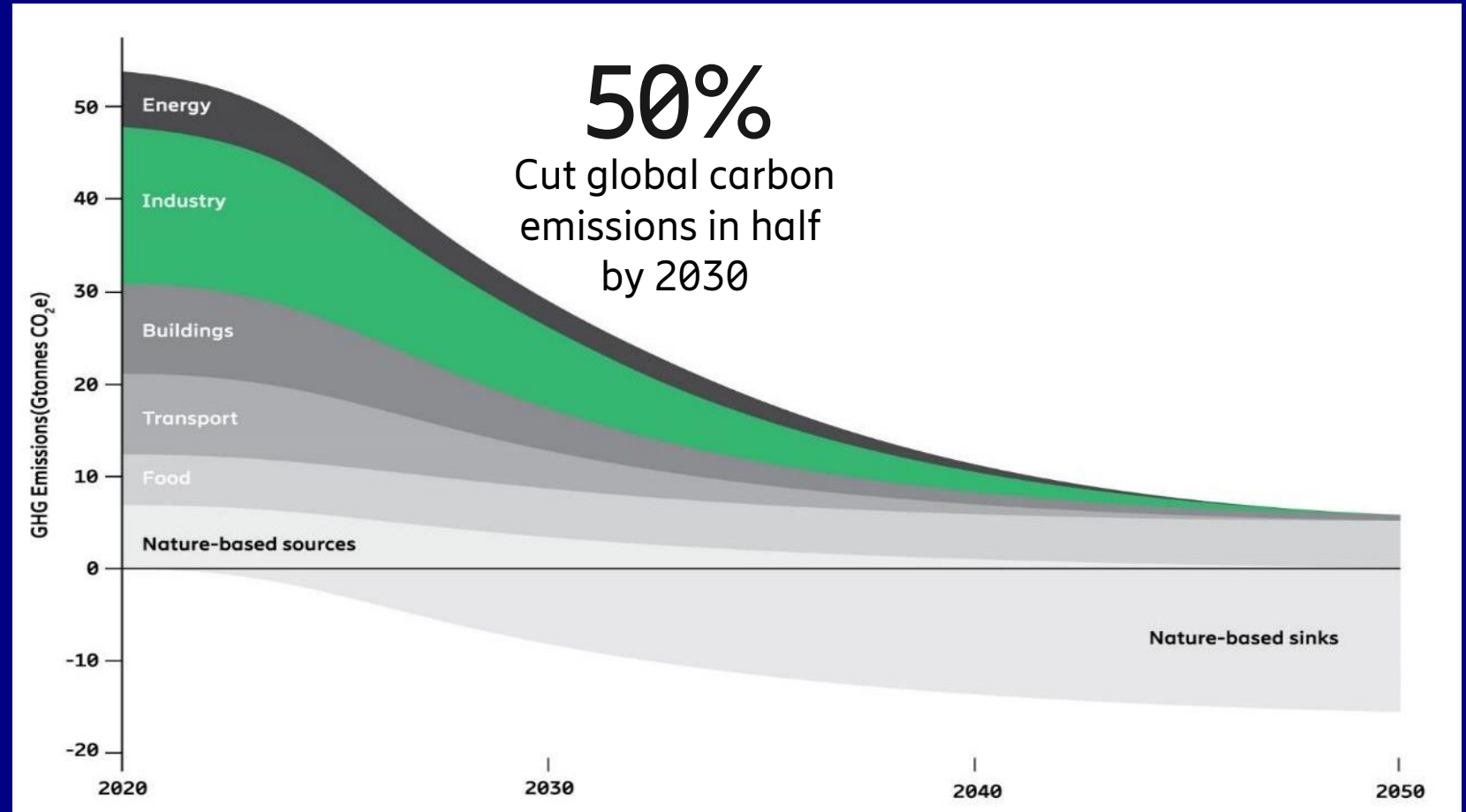


**1.4%**

The carbon footprint of the ICT sector corresponds to 1.4% of global emissions.

**15%**

The emission reduction potential of ICT solutions in other sectors is 15% by 2030.



Source: Exponential Roadmap

# Saving energy & decarbonizing residential homes using connected AI technology



- 356 buildings\*, Sweden and Finland, district heating
- Combining connectivity and AI energy management software (Kiona) to improve the energy optimization of individual properties
- Standard methodology ITU-T L.1480 for assessing carbon impact of ICT solutions
- The Carbon Trust found there was a 7% reduction on average for electricity consumption, avoiding 1 ktonne CO2 equivalents and saving 17.3 million kWh of energy.

\* Note: buildings count for 36% of GHG emissions in EU

<https://www.ericsson.com/en/blog/2023/9/using-connectivity-and-ai-to-cut-heating-emissions-to-drive-net-zero-industries>



# Connectivity and 5G provide tangible benefits for highly emitting sectors with significant potential for emission reduction

## Manufacturing

Manufacturers will learn more about their true operating parameters by analyzing real world live data mapped to each individual product—that's how Industry 4.0 and the connectivity of 5G and LTE (long-term evolution) will change the way manufacturing operates.



## Energy

5G will be critical for the future of renewable energy, as it provides higher levels of reconfigurability for power grids, which may allow local networks to work separately from the main network, helping renewable energy installations operate more dynamically and efficiently.



## Transport

Ubiquitously connected, electrified, and autonomous transport will cause an entire ecosystem of connectivity to grow around transportation industry participants. OEMs will only be a producer of vehicles, but also to provide transport solutions.





[www.ericsson.com/sustainability](http://www.ericsson.com/sustainability)