Advancing the Sustainability Agenda

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ICT Development Forum, UAE TDRA
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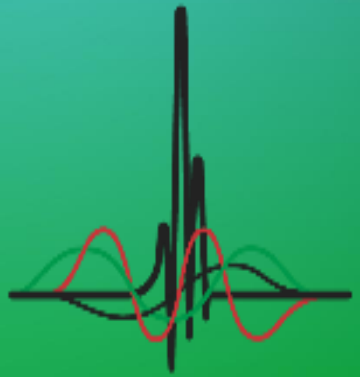


ITUWRC
DUBAI 2023

COP28
UAE

Targets 2023 onwards

Our ESG targets in 2023

2023

Environment

75% renewable electricity in our own facilities

65% reduction of facilities' emissions

50% reduction of average power consumption of 5G mMIMO Base Station

Security and privacy

95% mandatory training completion related to privacy

Bridging the digital divide

Nokia's fixed and broadband technologies connecting **400 million** additional residential subscribers covering unconnected and underserved

Responsible business

A minimum of **27%** female hires in global external recruits

Zero critical or fatal incidents for employees and suppliers

100% of suppliers performing high risk activities pledge their commitment to Nokia's life-saving rules

Cohort of **40** Senior Leaders conduct Safety Tours to Sites to increase Monitoring visibility

98% tin, tantalum, tungsten and gold traceability and conflict-free status and extended due diligence to cobalt and mica

Ethical Business training (EBT) completed by **95%** of employees

2024

Responsible business

95% of projects to be compliant with HRPIA standards

Reduction in Total Recordable Incident Frequency Rate (TRIFR) and Lost Time Incident Frequency Rate (LTIFR) for Nokia employees and suppliers

2025

Environment

100% renewable electricity in our own facilities

65% reduction of Scope 1 and 2 GHG emissions, including 85% reduction from facilities

Industrial digitalization

Industry verticals adopting private wireless customers (number of customers, in line with business plan)

Bridging the digital divide

Harness Nokia technology, capabilities and funds to improve the lives of **1 500 000** through social digitalization projects, digital skill building, and connecting the unconnected or underserved

Responsible business

98% tin, tantalum, tungsten and gold traceability and conflict-free status and extended due diligence to cobalt, mica and two additional minerals

80% of suppliers receive satisfactory sustainability score from supplier performance evaluation

TRIFR and LTIFR at industry benchmark

2030

Environment

50% reduction of our total GHG emissions (Scope 1, 2 and 3)

Final assembly suppliers reach zero emissions

50% reduction of suppliers' GHG emissions

73% reduction of logistics GHG emissions

95% circularity rate for waste from our offices, labs, manufacturing, installation and product takeback

Increase recycled content in source materials:

- Cast aluminum used in mechanical parts: to **90%**
- Wrought aluminum, steel and copper alloys, as well as polycarbonate plastics used in mechanical parts: to **50%**

Bridging the digital divide

Provide broadband based digital services with **2 billion** more subscriptions

Responsible business

Maintain at least **85%** favorability of employee/line manager engagement on the importance of ethics and compliance

100% of suppliers delivering high risk activity to meet or exceed "H&S preferred supplier" status

Increase the share of women employees to **25%**

2050

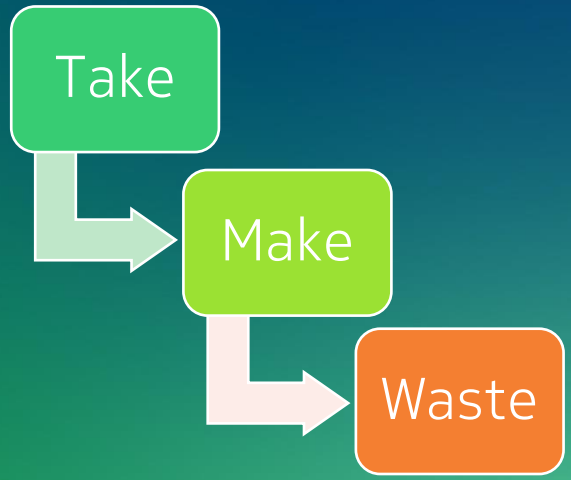
Environment

Net zero emissions in our value chain

The linear economy is not sustainable

Today's global economy is based on a linear system

- Humanity is currently **using nature 1.6 times faster** than our planet's ecosystems can regenerate[1]
- The linear economy **does not price in** the cost of environmental / social damage and biodiversity and **geodiversity** loss
- Only **17%** of e-waste in the electronics industry is recycled[2]

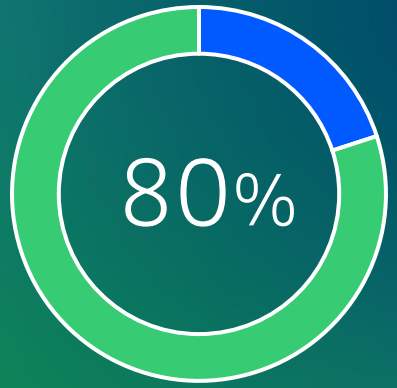


> The starting point is building circularity into product design. "Essentially, you want to keep things in the loop and in use for as long as possible,"[2]
>
> FINANCIAL TIMES

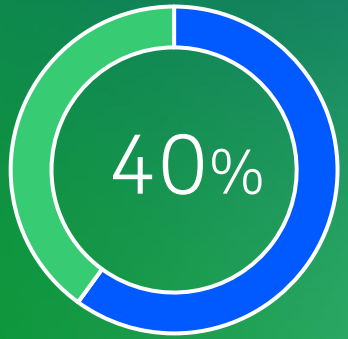
1. United Nations – Facts & Figures [link]
2. Financial Times; 23 February 2023 [link]

No green without digital

The twin green and digital transitions go hand in hand. Digital technology is key to solving the climate crisis.



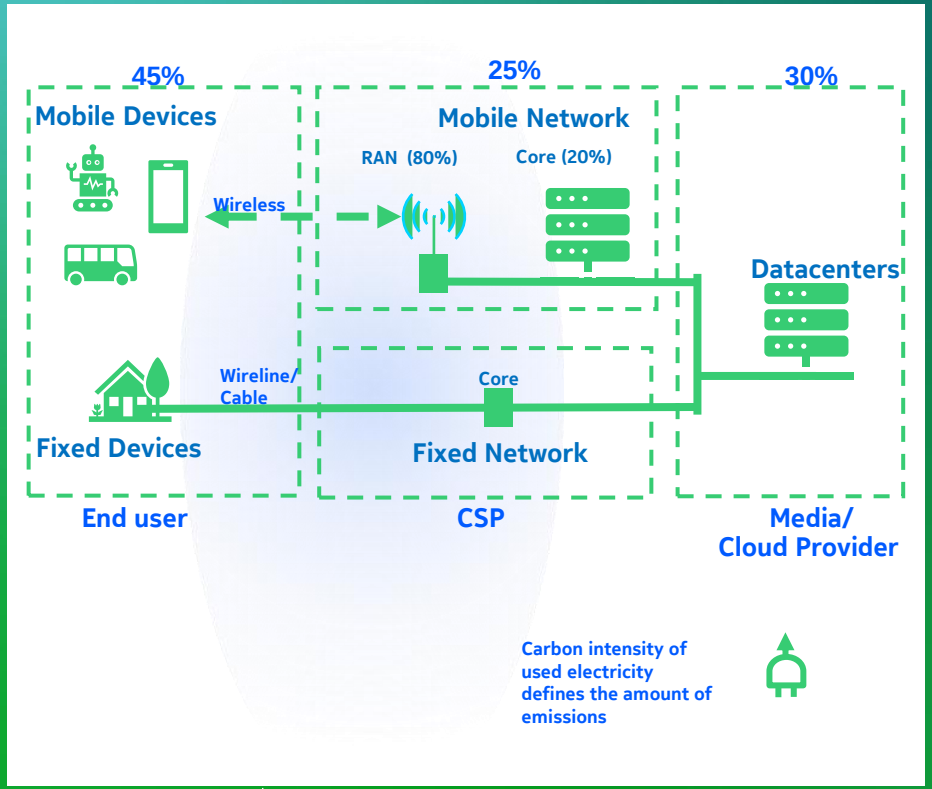
80% of CO_2 emissions come from physical industries like energy, transport, manufacturing and buildings



Digitalization could **deliver 40% of the CO_2 savings** needed to achieve **net zero by 2050**

Source: Center for low carbon solutions, Nokia study

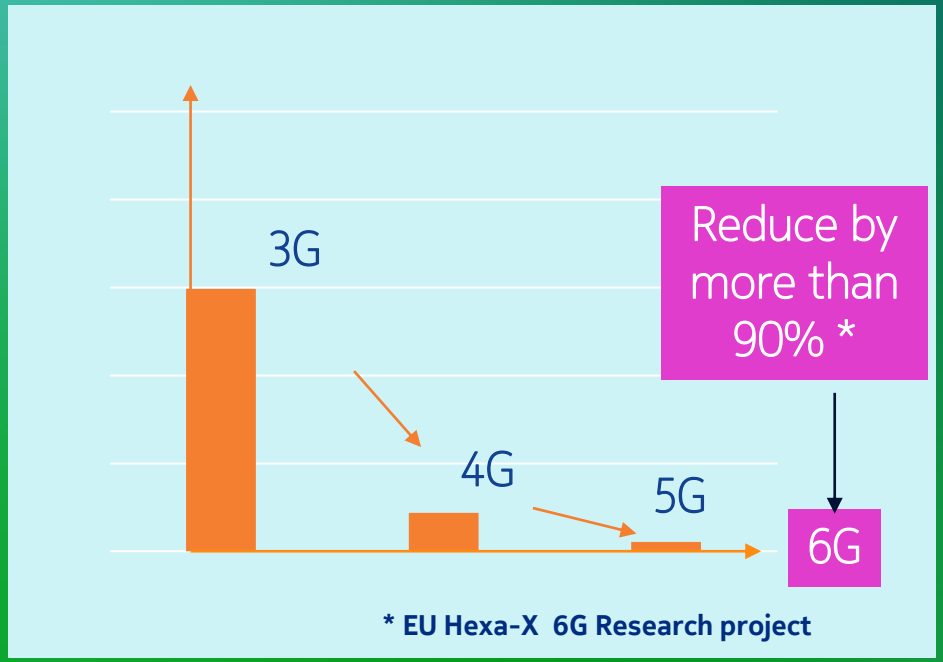
Data centres and data transmission networks are responsible for 1% of energy-related GHG emissions (IEA)

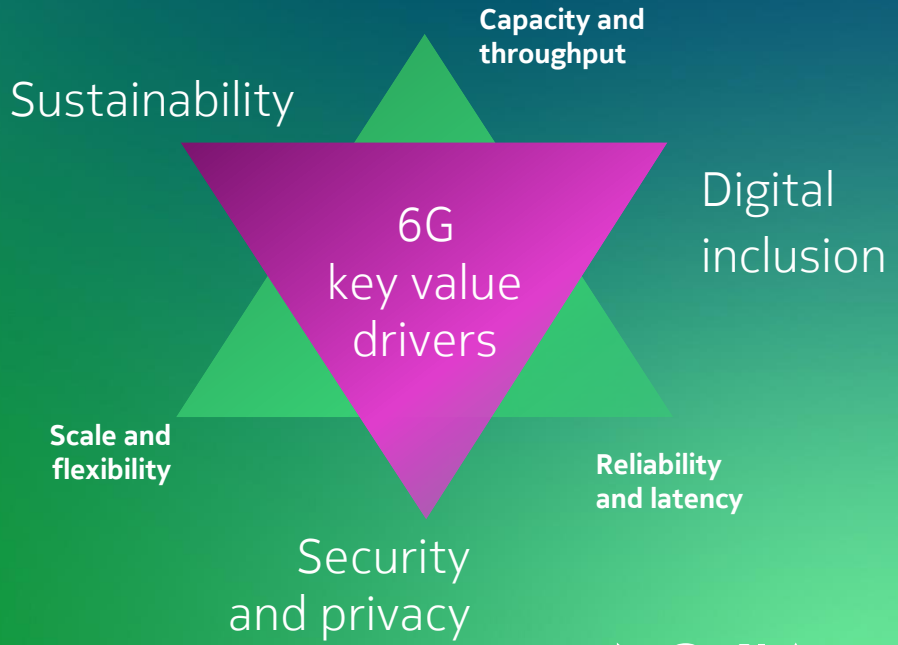


"Since 2010, emissions have grown modestly despite rapidly growing demand for digital services, thanks to energy efficiency improvements, renewable energy purchases by information and communications technology (ICT) companies and broader decarbonisation of electricity grids in many regions. " IEA

We won’t sacrifice sustainability for performance

Energy per bit during busy hour for site





Minimizing our footprint

Examples of product related developments and innovations

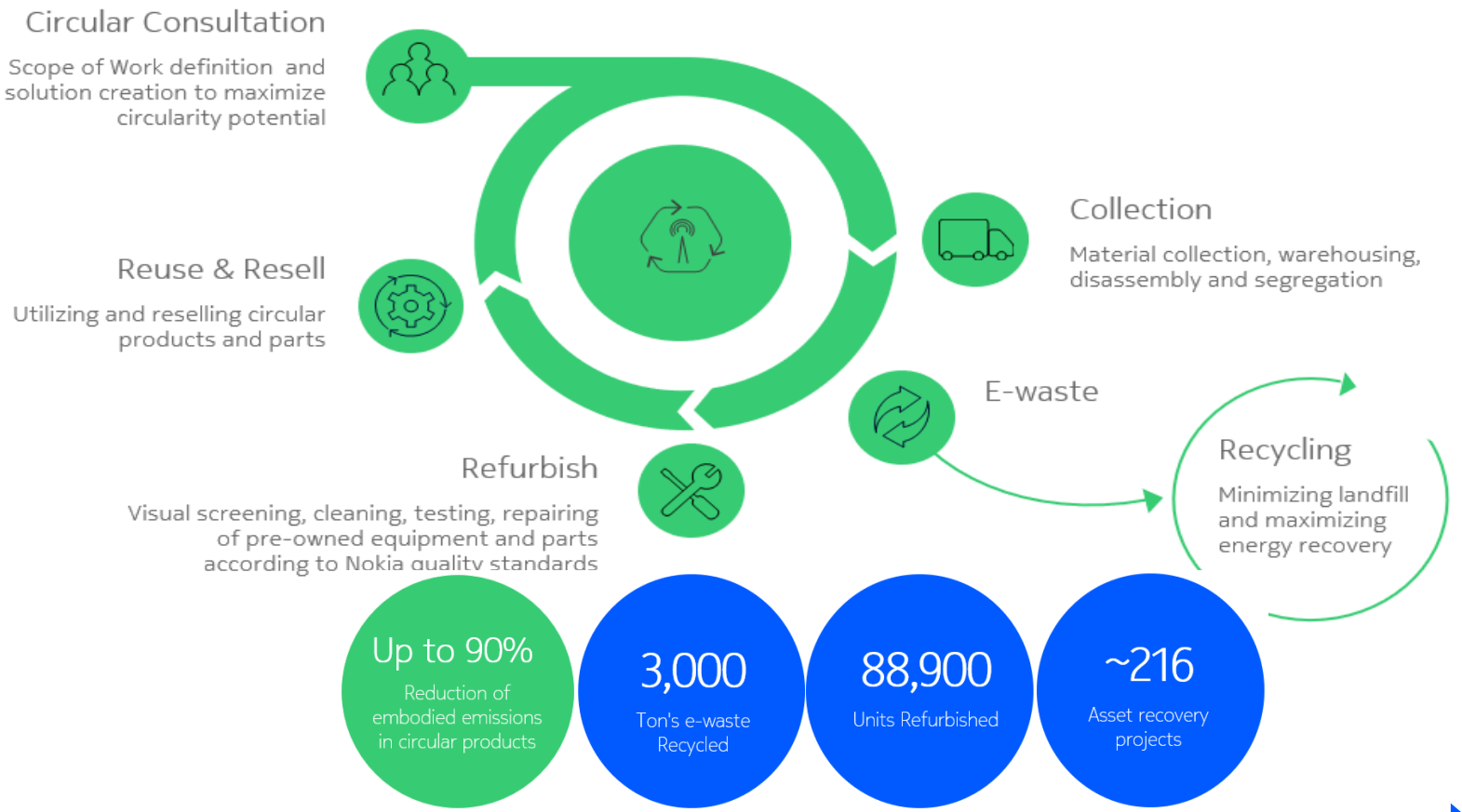
Improving product energy efficiency
44% less energy was used on average by the customer base station sites we modernized in 2022

Innovations in cooling (Liquid Cooling) and circular practice
Capture **80%** of waste heat for re-use and regeneration of electricity

Green Cells /renewable energy
Self powering Base station

Harness AI for more sustainable energy (Nokia AVA)
Savings ranging from **8-15%** on top of BTS energy features

Nokia Circular products and services



Facts & Figures - 2022


NOKIA