

NOKIA

Digitalisaation ilmastovaikutukset

Pia Tanskanen@piatanska

Huhtikuu 2022

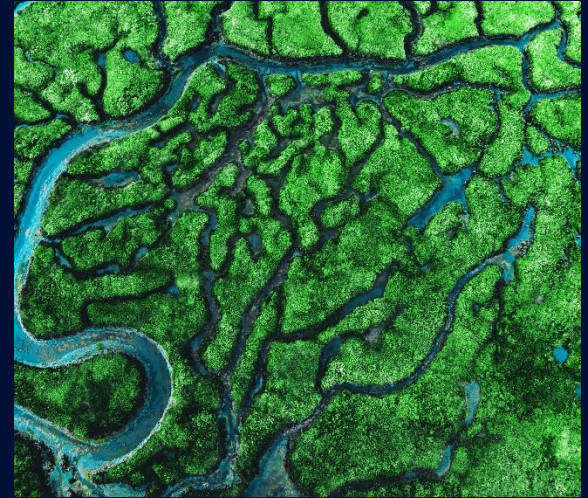
Three fundamental requirements for industry and society



Accelerate
digitalization



Embrace
collaboration



Develop sustainable
ecosystems

Our strategy:

Minimize Footprint

Maximize Handprint

Product-level impact

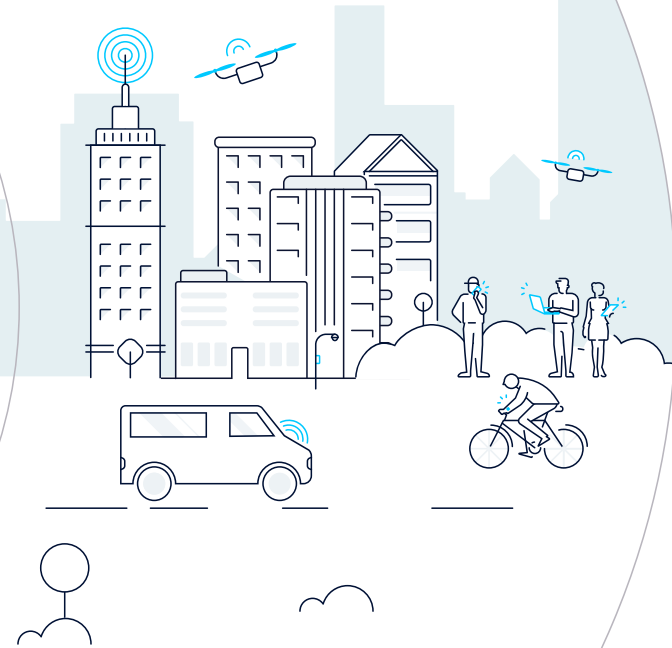
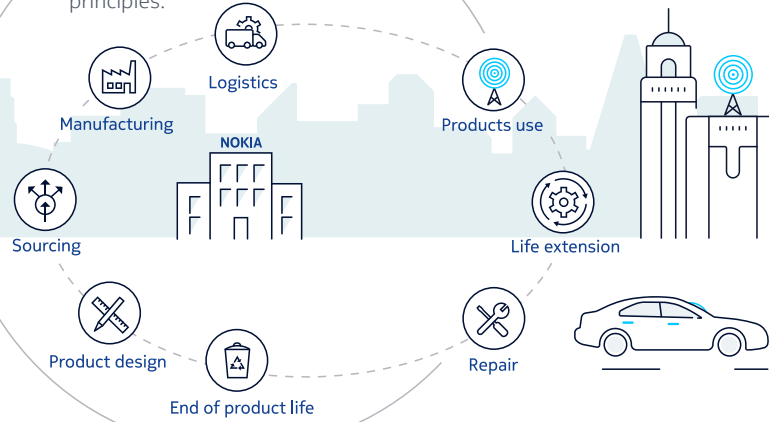
We up-grade, repair, reuse and recycle our products and improve energy efficiency

Operational impact

We run our operations and develop our products using circular-economy principles.

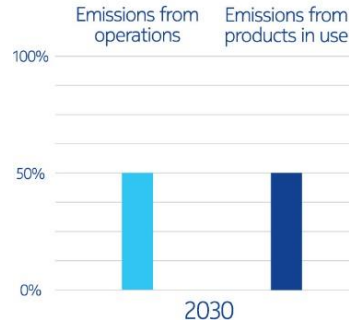
Societal impact

Digitalization of products and services supporting sharing economy



Science based climate targets – 1.5 degrees

Nokia carbon footprint



Our carbon footprint (Scope 1, 2 and 3)



Emission source	Metric tons CO ₂ e	% of total	
Energy use in facilities and by fleet	348 700	1%	Our Scope 1 & 2 emissions
Use of sold products	38 259 000	93%	
Purchased goods and services	1 571 600	4%	Our Scope 3 emissions
Capital goods	455 200	1%	
Upstream transportation and distribution	326 100	0.8%	
Employee commuting	17 200	0.0%	
Business air travel	5 600	0.0%	
Total Scope 1, 2 and 3 emissions	40 983 500	100%	

Percentages calculated out of reported, relevant GHG emissions.



RE100

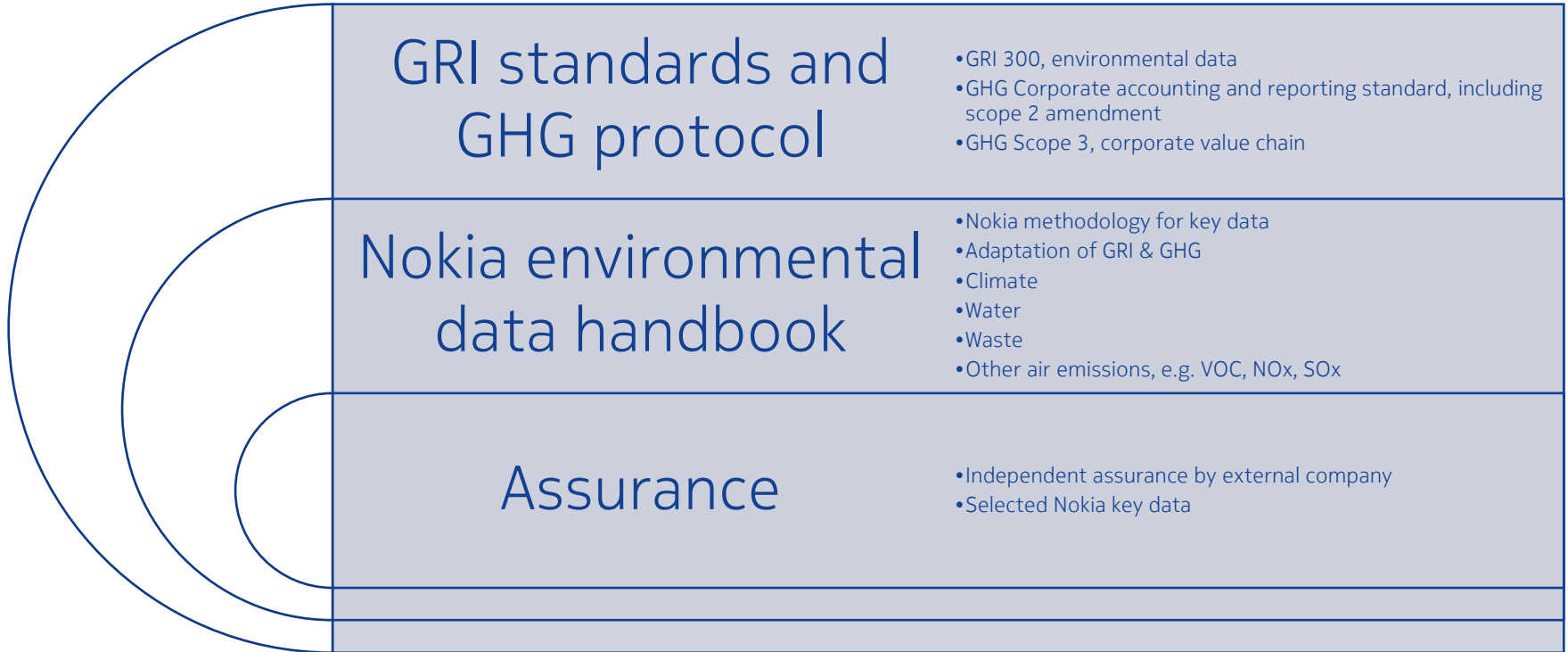
CLIMATE GROUP



Protocols and guidelines for environmental key data

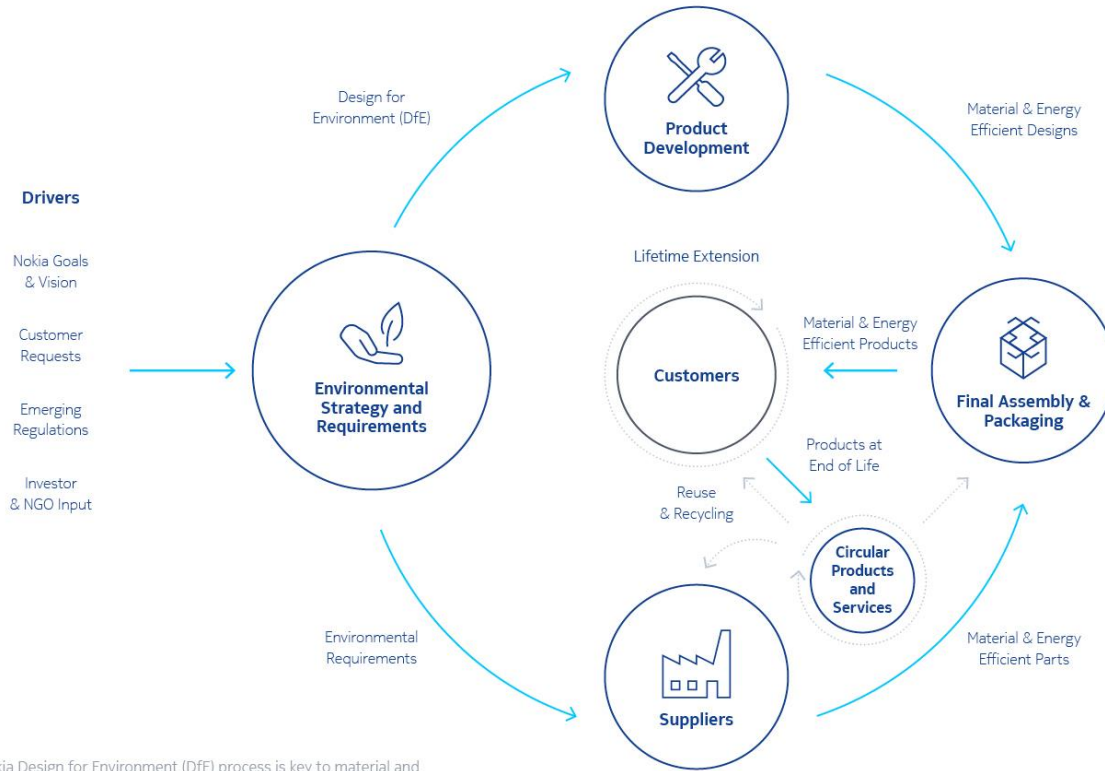
GRI, GHG, Nokia data and assurance

GRI = Global Reporting Initiative
GHG = Green House Gas



Design for Environment

Product design for environment



Nokia Design for Environment (DfE) process is key to material and energy efficient product development and the circular economy.

Key activities 2021 – Combatting climate change

Nokia joined the [EU Green Digital Coalition \(EGDC\)](#) as a founding member.. The main aim of the EGDC is to maximize the sustainability benefits of digitalization.



1.5°C

Our new recalibrated [science-based target](#) includes our logistics, final assembly suppliers and almost 100% of the current product portfolio

In November 2021, we committed to use

100%

renewable electricity in our facilities by 2025, aligning with the requirements of the [RE100 initiative](#).

5G

Our product portfolio innovations included our next-generation [AirScale](#) 5G portfolio with new [ReefShark](#) powered plug-in cards and [FP5](#), our fifth generation of high-performance IP routing silicon.

IP

SAF

We launched our inaugural CO2 neutral [airfreight](#) using [sustainable aviation fuel](#) between Shanghai and Tilburg in the Netherlands in collaboration with DB Schenker and Lufthansa Cargo

At the COP26 climate conference we joined the [World Economic Forum's First Movers Coalition](#) as a founding member. The Coalition aims to accelerate the market for zero emissions goods and services in eight critical industrial sectors.

COP26

Our latest recognitions



*)



FTSE4Good



**)



*) World's Most Ethical Companies" and "Ethisphere" names and marks are registered trademarks of Ethisphere LLC.

***) The use by Nokia of any MSCI ESG research LLC or its affiliates ("MSCI") data, and the use of MSCI logos, trademarks, service marks or index names herein, do not constitute a sponsorship, endorsement, recommendation, or promotion of Nokia by MSCI. MSCI services and data are the property of MSCI or its information providers, and are provided 'as-is' and without warranty. MSCI names and logos are trademarks or service marks of MSCI.



We create the technology to connect the world

<https://www.nokia.com/about-us/sustainability/>