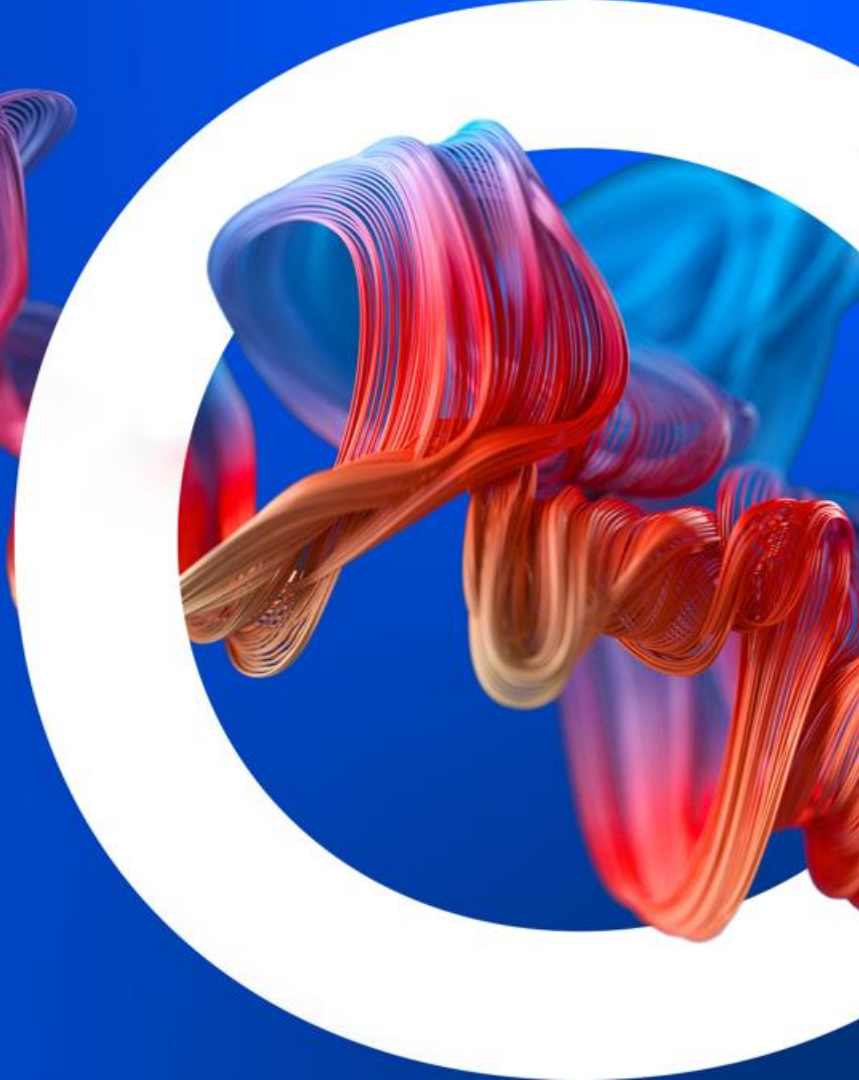
Kestävän kehityksen standardointitarpeet kansainvälisessä ICT alan yrityksessä

Susanna Kallio
Head of sustainability standardization



Agenda

1. Drivers for environmental sustainability standardization
2. Nokia standardization goals
3. Examples of key standards

Main stakeholders driving change in sustainability

Striving towards a more sustainable business and climate neutrality

Policy makers

Aim to limit global warming to well below 2° Celsius, preferably to 1.5° Celsius, compared to pre-industrial levels.

Formulate eco-design requirements.

Investors

Expect to see

- Robust sustainability strategies and execution plans in place.
- Commitments to Zero carbon emissions by 2050
- Energy efficient technologies and business processes

Customers

Demand that businesses minimize energy consumption, embodied emissions, maximize energy efficiency.

Market for circular products.

Proof point with sustainability standards

Common industry approved methodologies

Minimize

environmental impact

Quantify

current impact with standard methodology

Verify

compliance with regulation, avoid greenwashing

Nokia goals in sustainability standards

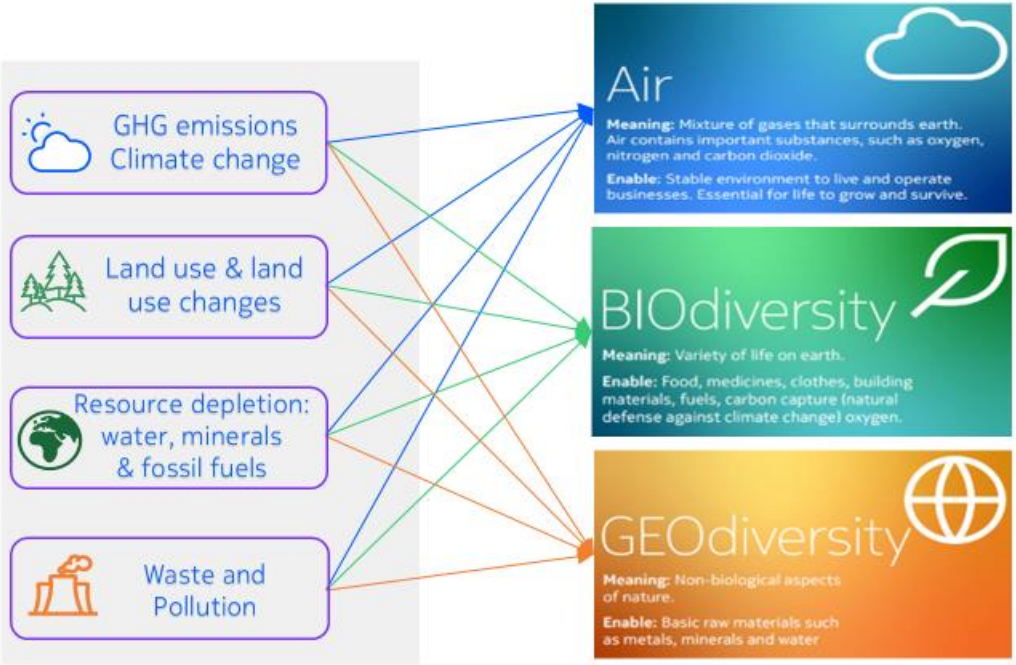
Forum – Geographical coverage - Standards

Standards Defining Organizations (SDO) or Standards Setting Organizations (SSO)

Forum	Coverage	Standards
Open collaboration with key stakeholders	Globally harmonized approaches / standards	Clear and implementable standards, special guidance for ICT sector

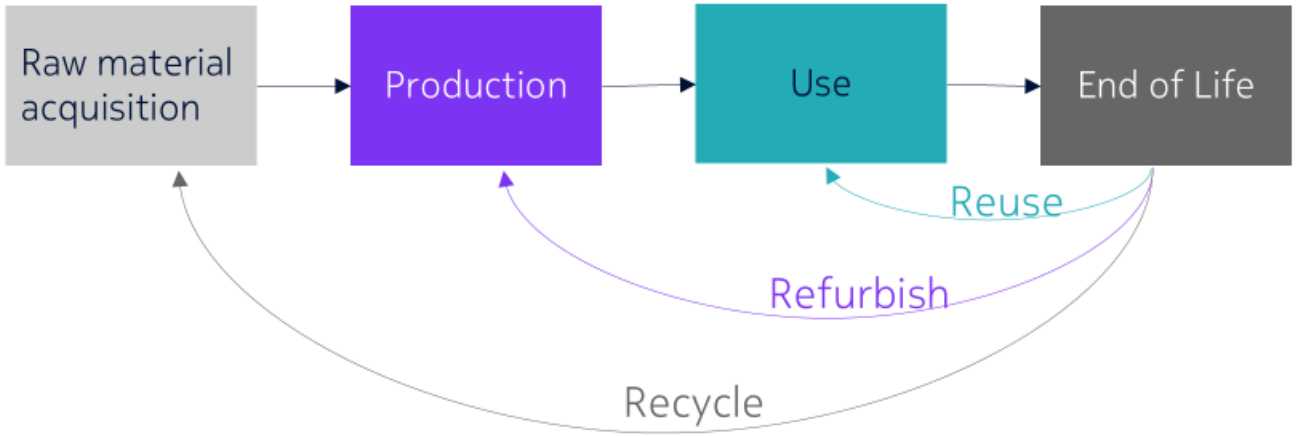
Holistic environmental impact

Environmental impacts are complex, dynamic and interconnected



Example: Circularity in product life cycle

Circular economy aspects and standards required by European Commission



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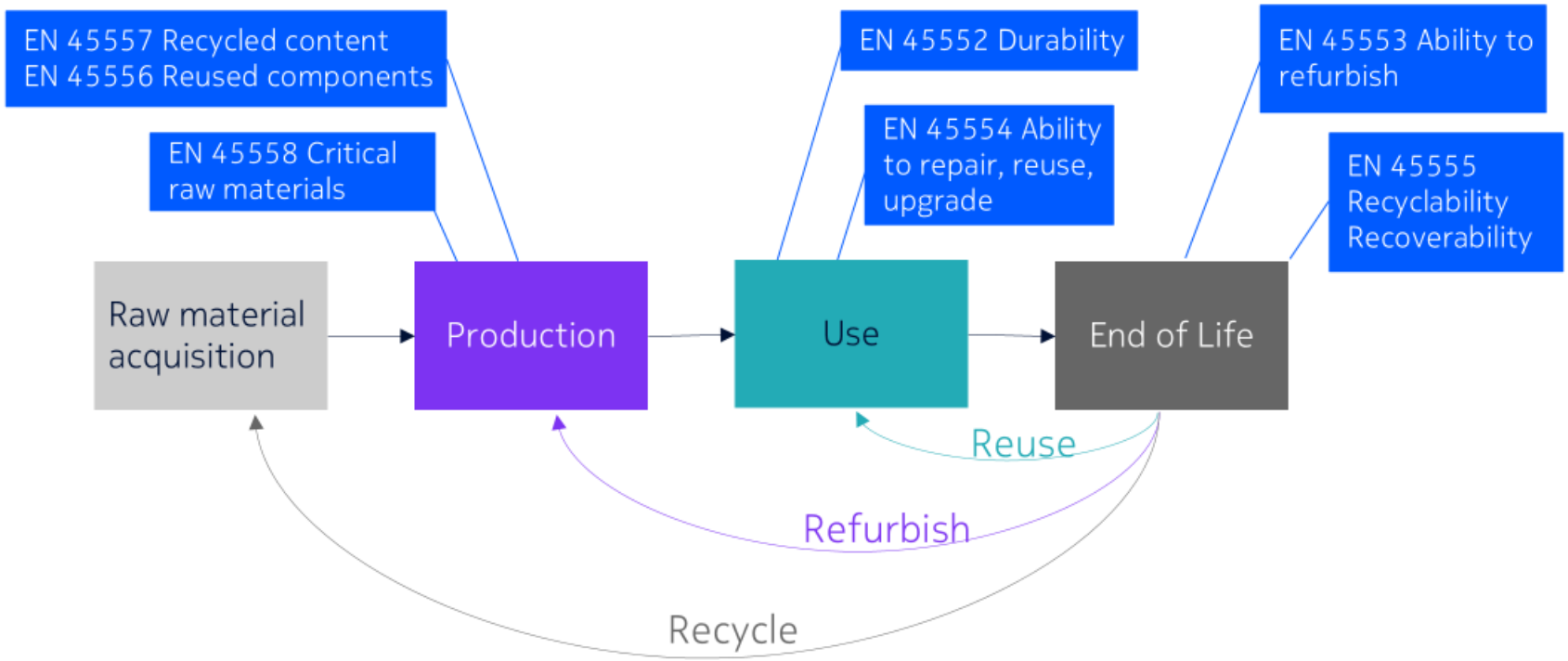

Fundamental standards in product environmental sustainability

For assessing ICT impact

Footprint:
ITU-T L.1410 / ETSI ES 203 199 (LCA) based on ISO 14040&14044

"Methodology for environmental life cycle assessments of information and communication technology goods, networks and services"

Handprint:
ITU-T L.1480 (enabling effect)

"Enabling the Net Zero transition: Assessing how the use of information and communication technology solutions impact greenhouse gas emissions of other sectors"

Energy efficiency:
ETSI ES 202 706-1 (measurement method for base stations)

"Metrics and measurement method for energy efficiency of wireless access network equipment; Part 1: Power consumption - static measurement method"

AI:
Method for assessing environmental impact of AI systems
(under development in ITU-T /ETSI and CEN/CENELEC)


NOKIA