GeSI ENABLING DIGITAL SUSTAINABILITY

Huawei Innovative Data Infrastructure Forum

Luis Neves
CEO, GeSI

ABOUT GESI

We envision a sustainable world through responsible, ICT-enabled transformation.

The Global Enabling Sustainability Initiative (GeSI) is the only global membership organisation dedicated to enabling the ICT industry to meet opportunities generated by applying digital solutions to the world's most pressing environmental and social challenges.

Create

the conditions that lead to new digital growth opportunities

Foster

global relationships, social networks, and business ties

Define

business cases for digital solutions for sustainability

Position

companies to have a seat at the table in policy discussions that matter at regional and global levels

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MEMBERS


accenture


qpdc
ASSOCIAÇÃO PORTUGUESA PARA O DESENVOLVIMENTO DAS COMUNICAÇÕES


AT&T


Bell


CMAS
SYSTEMS CONSULTANTS


colt


cscp
COLLABORATING CENTRE ON SUSTAINABLE CONSUMPTION AND PRODUCTION


DASSAULT SYSTEMES


DELL


Deloitte.


Deutsche Telekom


etno


greener intelligence


HUAWEI


IBM


IMPACT ROI


LIBERTY GLOBAL


LUMEN


MTN


NEC


NOS


NTT


SUPERIOR ESSEX


swisscom


T-Mobile


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tdc net


TELSTRA


TIM


TM AUSBAU


Türk Telekom


unipartner


verizon


ZTE

PARTNERS


arabesque


UNIVERSITY OF CAMBRIDGE
INSTITUTE FOR SUSTAINABILITY LEADERSHIP


CAPITALS COALITION


CARBON TRUST


CDP
DISCLOSURE INSIGHT ACTION


cirodd
Centre interdisciplinaire de recherche en opérationnalisation du développement durable


CTCN
CLIMATE TECHNOLOGY CENTRE & NETWORK


connected devices
ALLIANCE


enerTIC


ETSI


European
DIGITAL SME
Alliance


giz
Deutsche Gesellschaft
für Internationale
Zusammenarbeit (GIZ) GmbH


GCF
Global Climate Forum


itw
GLF
GLOBAL LEADERS' FORUM


Global Sustain
People | Planet | Profit


GREEN
ELECTRONICS
COUNCIL


ICC
INTERNATIONAL
CHAMBER
OF COMMERCE


IEEE


iscte
INSTITUTO
UNIVERSITÁRIO
DE LISBOA


THE INTERNET COMMISSION


ITU


NUMANA


P4TT
Platform for Tech for SDGs


Responsible Business Alliance
Formerly the Electronic Industry Citizenship Coalition
Advancing Sustainability Globally


RIDLEY SCOTT
CREATIVE GROUP


step


SDIA


United Nations
Global Compact


UNEP


WORLD
GREEN
BUILDING
COUNCIL


SUSTAINABLE DEVELOPMENT
SOLUTIONS NETWORK
A GLOBAL INITIATIVE FOR THE UNITED NATIONS


United Nations
Climate Change


WIRELESS
BROADBAND
ALLIANCE


wbcsd


WORLD
RESOURCES
INSTITUTE


WORLD
RESOURCES
FORUM


WORLD OCEAN COUNCIL
The International Business Alliance
for Corporate Ocean Responsibility

OUR STRATEGY

Moving away from traditional compliance practices to…

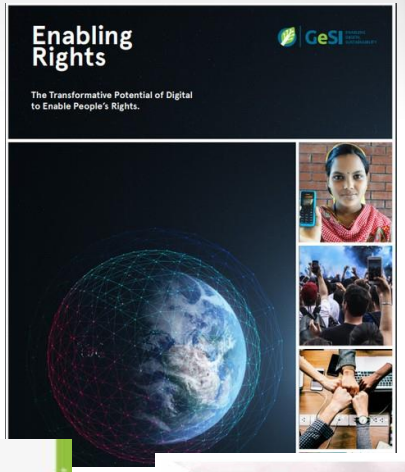
Harness the potential of digital technologies through disruptive and collective approaches

Thought Leadership

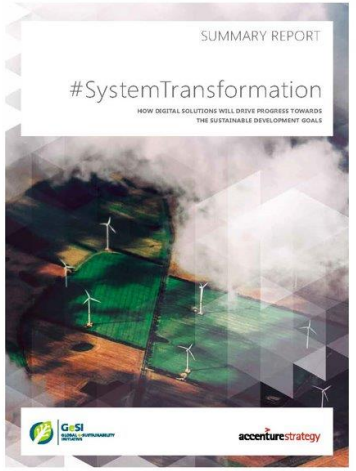
Strive to drive a positive and transformative agenda

SMARTer 2030

Enabling Rights



Digital with Purpose



System Transformation

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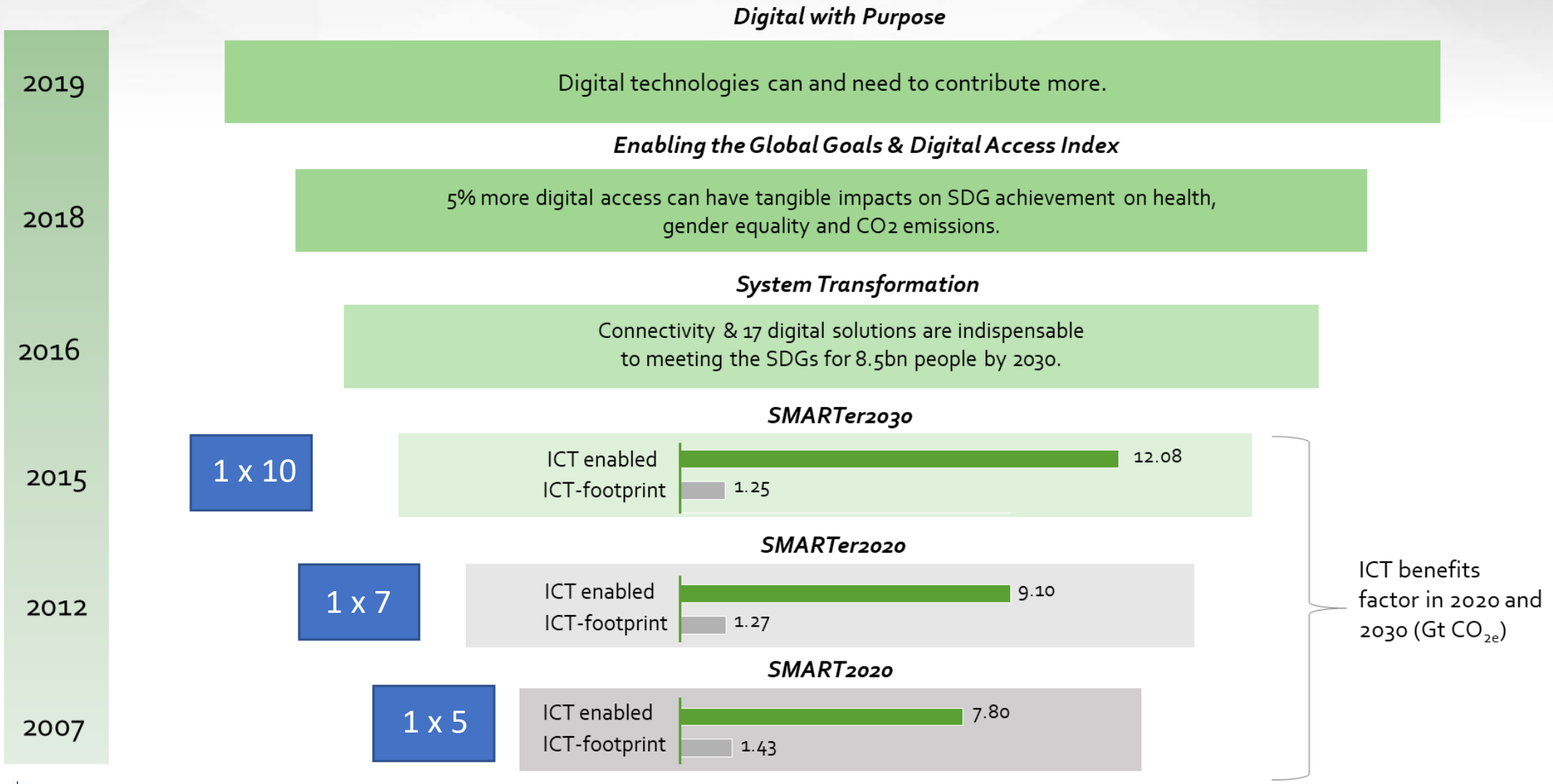
The evolution of ICT enablement



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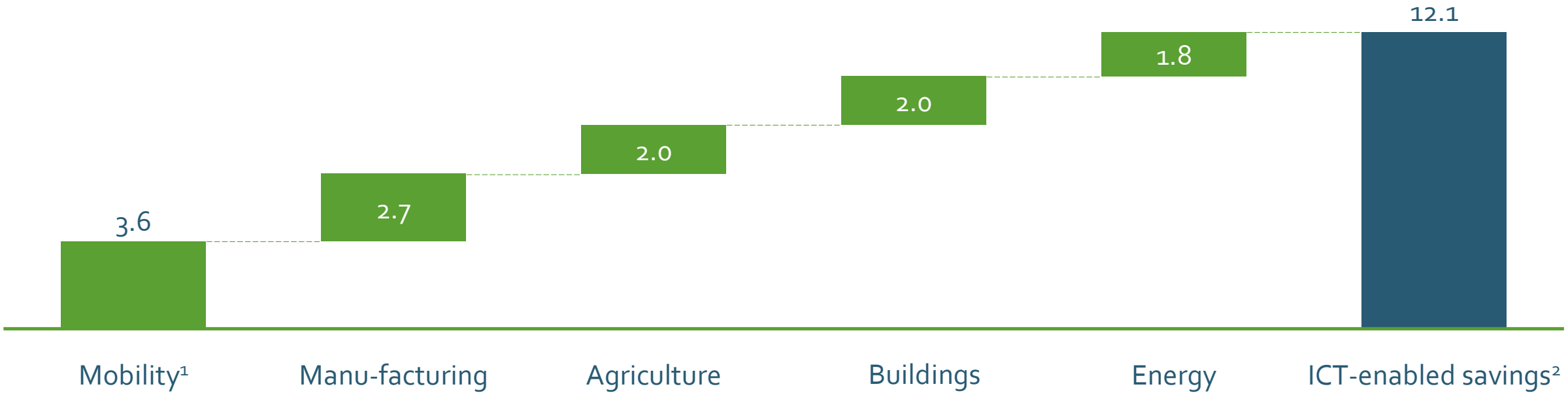
Data from GeSI reports (2007-2019)

Smart solutions to mobility, manufacturing, agriculture, building and energy deliver ICT's potential of 12Gt CO_{2e}

CO_{2e} abatement potential by sector (Gt CO_{2e})



ICT has the potential to maintain global CO2e emissions at 2015 levels, decoupling economic growth from emissions growth

1 Smart mobility solutions consider improved driving efficiency but also the reduced need to travel from various sectors, including health, learning, commerce, etc.
2 12 Gt CO2e reduction in 2030 enabled by ICT include 2 Gt CO2e abatement from integration of renewable energy production into the grid. In its business as usual emissions forecast for 2030 the Intergovernmental Panel on Climate Change (IPCC) already considers the CO2e abatement potential from renewable energy. Therefore, the additional ICT-enabled CO2e reduction against the IPCC emissions forecast for 2030 is 10 Gt CO2e

Source: WRI, IPCC, World Bank, GeSI, Accenture analysis & CO2 models

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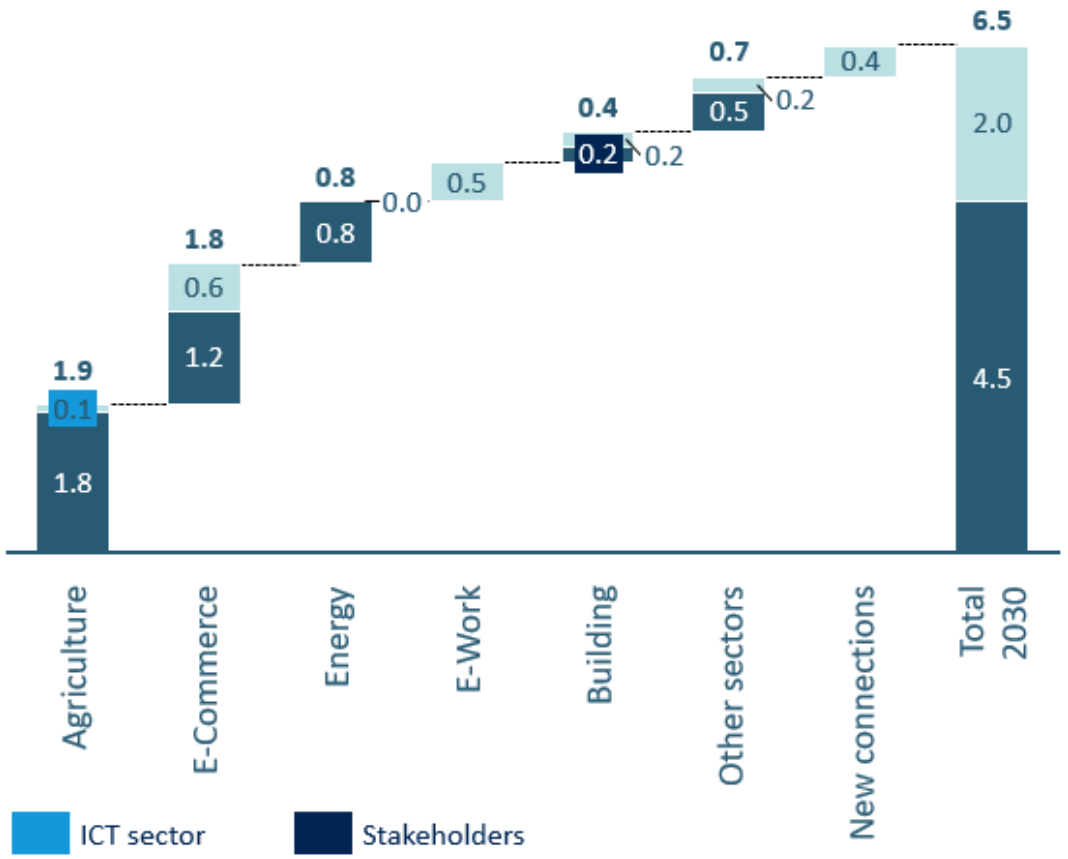
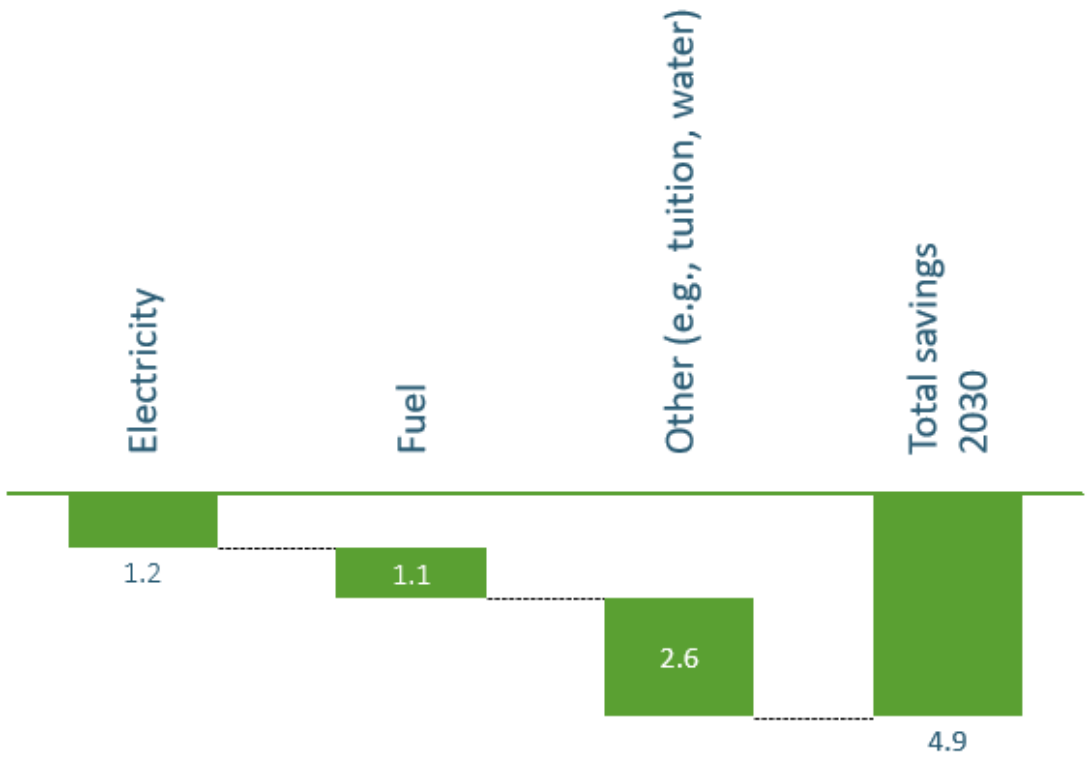
ICT is good for growth and could deliver over $6 trillion in revenues and close to $5 trillion USD in cost savings

ICT-enabled revenues and cost savings p.a. (2030, USD trillion)





Source: WRI, IPCC, Gartner, FAO, GeSI, Accenture analysis & CO2 models

#SMARTer2030

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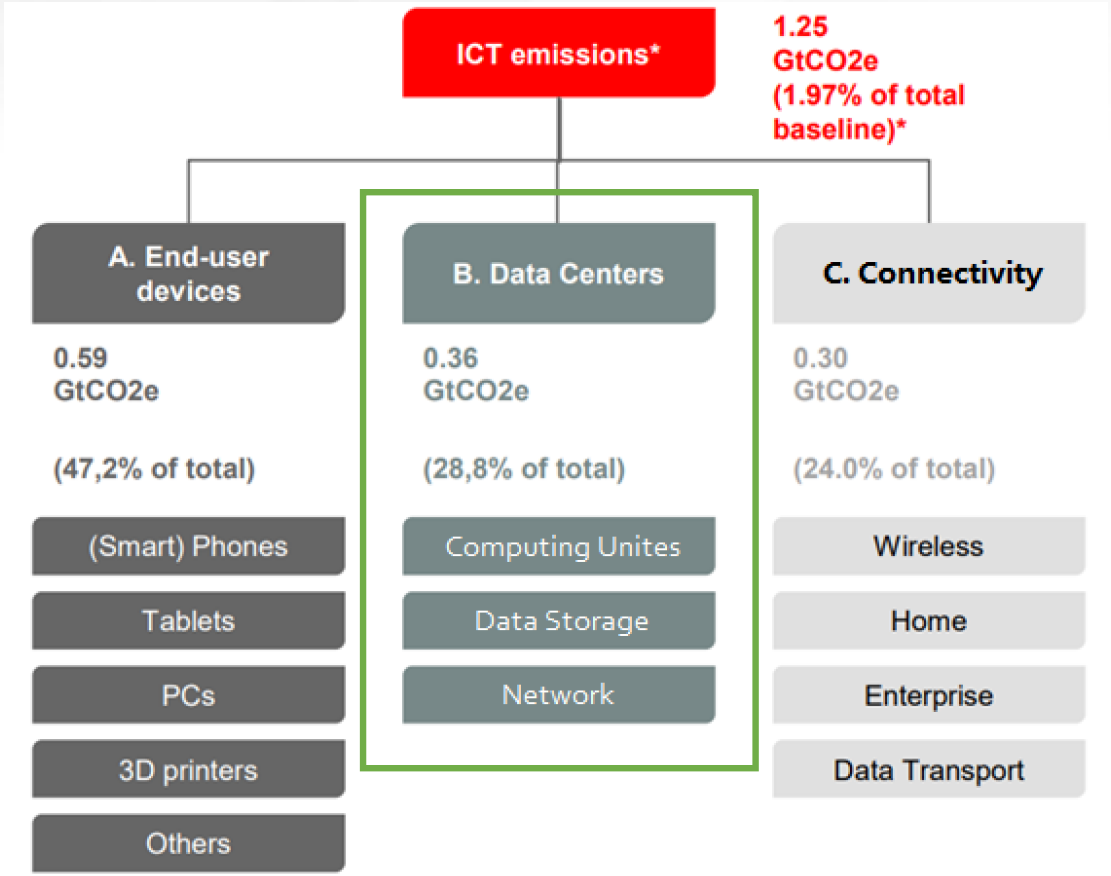
The importance of green Data Centers



To reach the 2030 net-zero targets, Data Centers will need to become more **energy efficient**, **reuse waste energy** such as heat, and use more **renewable energy sources**.

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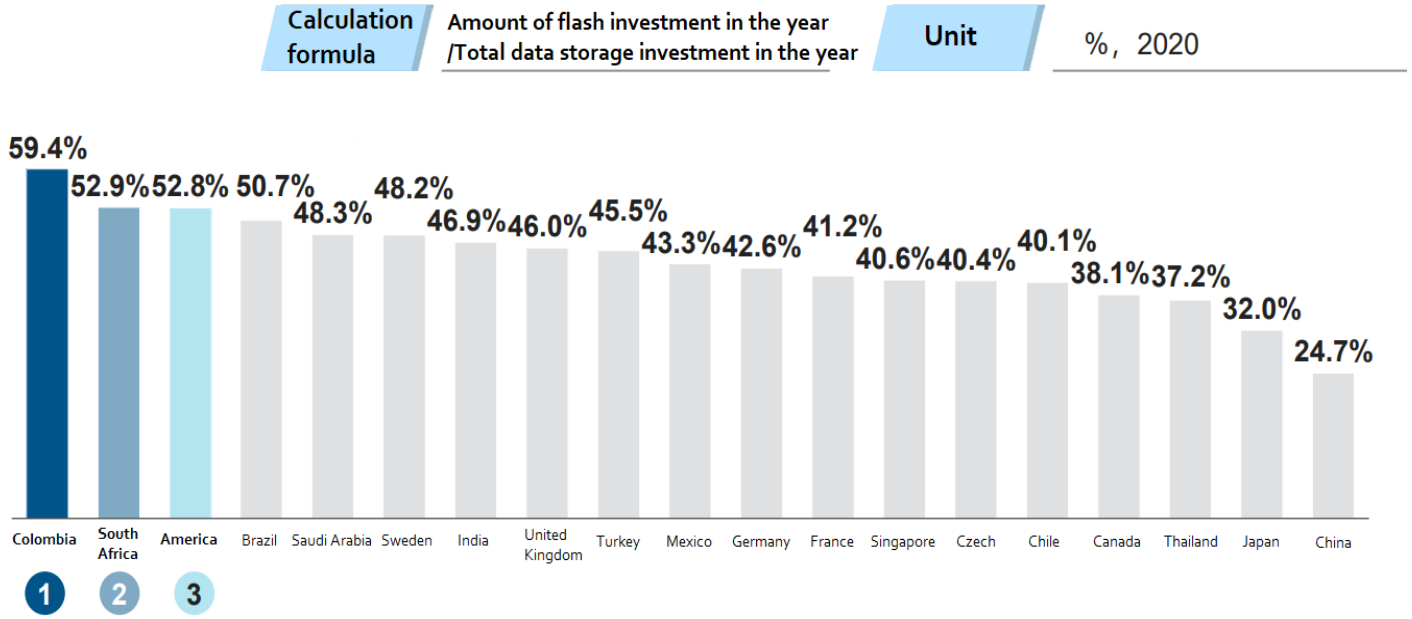
Data from GeSI Smarter2030 Report

The importance of green Data Centers

The proportion of flash memory in each country



Source: Roland Berger Analysis

Replacing a HDD with a SSD. **Reduces energy consumption by 70%, occupied space by 50%** under the same capacity. For countries and regions with high energy consumption in data centers, the promotion of new storage technologies, such as all-flash, helps make data centers achieve greening.

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Urgent action is required and digital technologies can and need to contribute more.

The deployment of existing technologies will, on average, accelerate progress by **22%** and mitigate downwards trends by **23%.**

Of the
169 SDG targets,

103

are directly influenced
by technology.

(Source: Digital with Purpose: Delivering a Smarter 2030)


DIGITAL
WITH
PURPOSE
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SUMMIT
2022
October 3-5
2022

Global Enabling Sustainability Initiative

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