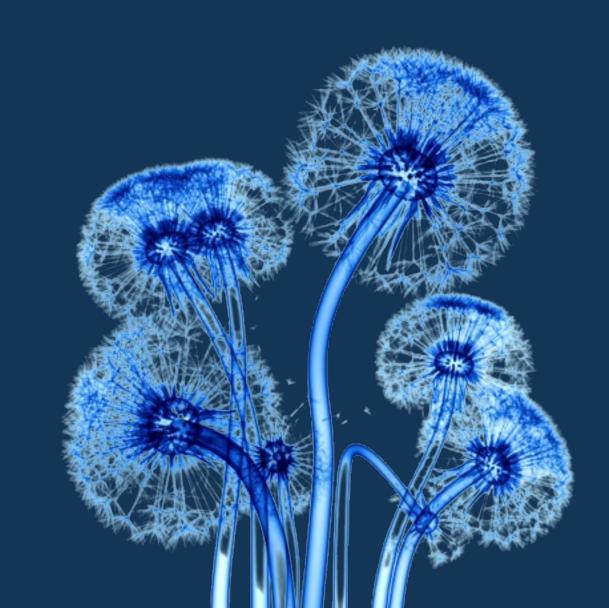
2022 Telco ESG Leaders

Asia-Pacific Edition

Asian telcos ESG study: Key Findings

A detailed analysis of ESG practices





Welcome to the deep dive

If you're reading this, you've most likely already spent time with the report's web experience, and now you're curious to absorb even more data and insights.

This version contains all the web headlines, plus a host of extras highlighted in bold.

Inside:

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3 pillars of twimbit ESG Framework	16
Our ESG leaders	20
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5-minute takeaway

Key lessons from our ESG leaders on how telcos can embrace ESG transformation?

- **#1** Start with GHG Emissions
- **#2** Manage Energy Consumption
- **#3** Effective use of Resources
- **#4** ESG assessment of Supply-chain
- **#5** Innovate Accessibility
- **#6** Create Equal Opportunity
- **#7** Design a Sustainable Board
- **#8** Run Transparent Operations

Start with GHG Emissions

50%

Leaders with a YoY decline in both scope 1 & scope 2 emissions

30%

Leaders who still do not declare scope 3 emissions

Key strategies of our leaders!







- Proactively record and declare ESG data such as 'GHG emissions intensity' and 'Scope 3 emissions'
- Move beyond local ESG regulations and match global standards such as GRI, TCFD and SASB



Manage Energy Consumption

60%

Leaders with a YoY increase in use of renewable energy

80%

Leaders with a YoY increase in total energy consumption

Key strategies of our leaders!







- Telcos with high renewable energy use invest in production of renewable energy alongside sourcing externally
- Build or source an AI based electricity tracking system for real time management of electricity consumption



Effective Use of Resources

60%

Leaders with a YoY decrease in waste generation

60%

Leaders with a YoY increase in water consumption

Key strategies of our leaders!



OPTUS



- Waste management champions target cell phone and network waste recycling, sustainable packaging, and use of plastics
- Develop efficient water harvesting capabilities to reduce dependence on potable municipality water for operational uses



ESG Assessment of Supply-chain

60%

Leaders with '90% or above' ESG evaluation rate of tier 1 suppliers

10%

Leaders with 'ESG pre-screening rate of 100%' of all new suppliers (across tiers)

Key strategies of our leaders!











Innovate Accessibility

80%

Leaders have programs for employment of differently abled

40%

Leaders still do not provide products designed for differently abled customers

Key strategies of our leaders!





OPTUS



Use the four pillars below to create opportunities and remove barriers to access for people with disabilities

Employees: facilities and opportunities

Customers: products and services

Communities: collaboration and activities

Technology: develop assistive products



Create Equal Opportunity

10%

Leaders with 35% or more female BOD members

20%

Leaders with 35% or more female workforce

Key strategies of our leader!



- Have gender equality as a measurable performance objective for senior leadership and the Board
- Push equal opportunity by having at least 50% representation of women in interview recruitment shortlists (or 35% in fields where women representation is low)



Design a Sustainable Board

80%

Leaders have BOD as the top body overseeing ESG initiatives

70%

Leaders with 75% or less independent directors in the board

Key strategies of our leaders!







OPTUS

- Have the BOD nomination committee comprise only of independent non-executive directors
- Remove performance incentives for non-executive directors to maintain independence and impartiality



Run Transparent Operations

50%

Leaders who do not provide political contributions in any form

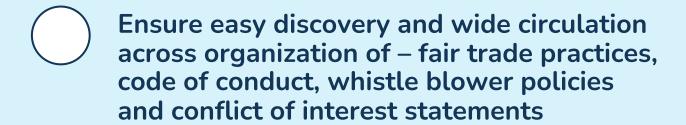
30%

Leaders have not provided details of their anti-trust or fair-trade practices

Key strategies of our leaders!













```
#1 Environment
Optus

#2 Social
```

#2 Social

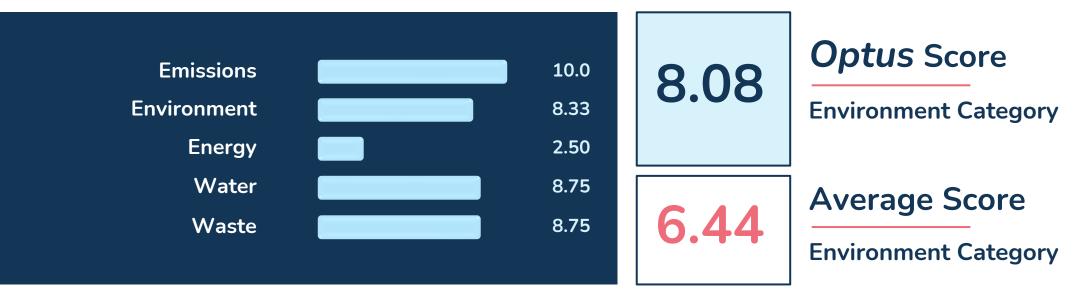
Chunghwa Telecom

#3 Governance

SK Telecom

Leader in **Environment Category**

OPTUS





Leader in Social Category





7.50

6.82

Chunghwa Score

Social Category

Average Score

Social Category



Leader in Governance Category









SK Telecom Score

Governance Category

Average Score

Governance Category





3 pillars of twimbit ESG Framework

#1 Environment

#2 Social

#3 Governance

Pillar 1: Environment

Emissions



- Scope 1 GHG emissions
- Scope 2 GHG emissions
- Scope 3 GHG emissions
- GHG emissions intensity

Environment



- Resource Conservation
- Environmental Management
- Climate Change Management

Energy



- Energy Consumption
- Renewable Energy Use

Water



- Water Consumption
- Water Management

Waste



- Waste Generated
- Waste Management



Pillar 2: Social

Customer



- Health and Safety
- Feedback Management
- Inclusive Product and Services
- Information Security System
- Privacy Breaches

Employment



- Training
- Family Time
- Hiring and Turnover
- Collective Bargaining
- Inclusive Employment

Diversity and Inclusion



- Parity in Salary
- Employee Gender Ratio
- Board of Directors Gender Ratio

Local Communities



- Digital Inclusion
- Investment in Community

Supply Chain



- ESG Screening
- ESG Assessment



Pillar 3: Governance

Board of Directors



- Nomination Process
- Performance Evaluation
- Role in Governance
- Role in Sustainability
- Independent Directors
- Conflicts of Interest

Transparency



- External Audit
- Whistle-blower Policy
- Political Contributions

Materiality



- Assessment of material issues
- Management of material issues

Human Rights



- Risk Assessment
- Risk Management

Compliance



- Anti-trust Policy
- Code of Conduct







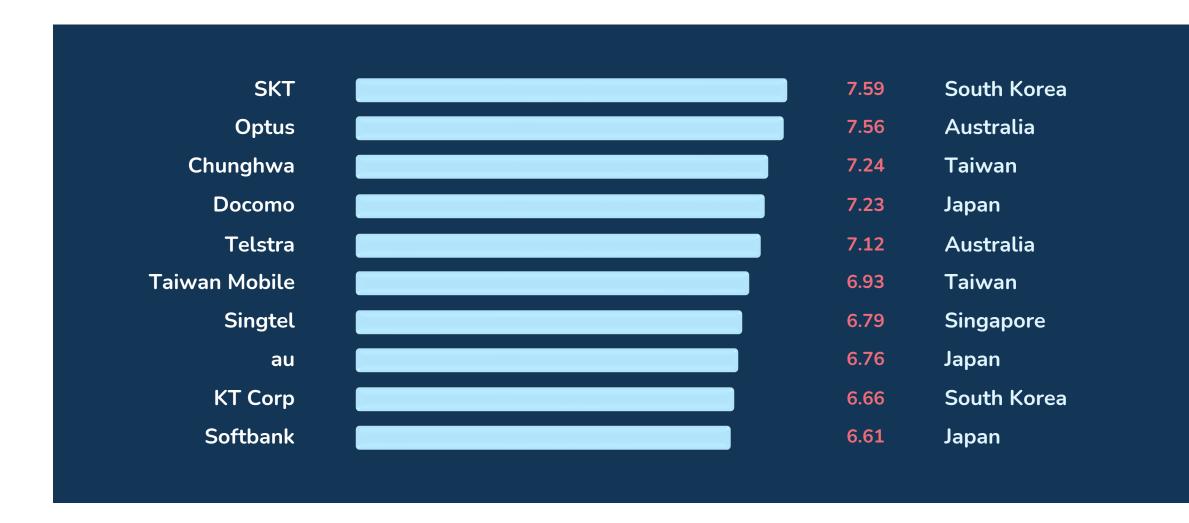
#1 Ranking: ESG leaders

#2 Performance on ESG Framework

ESG category scores

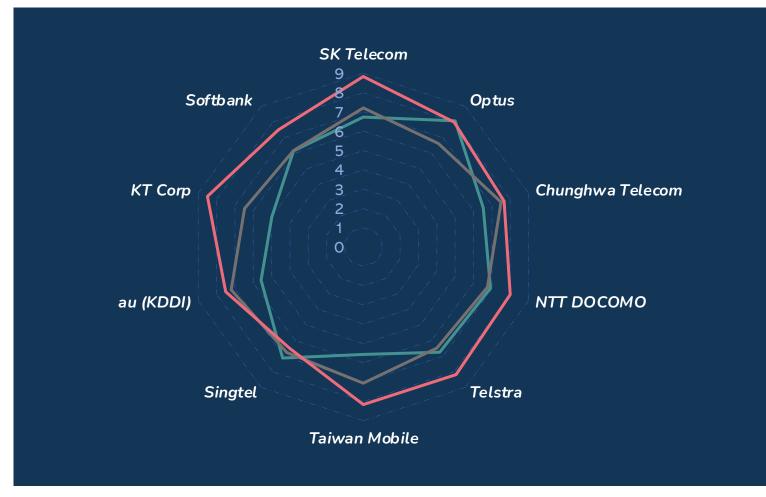
Heat map: ESG scores

Ratings: ESG leaders

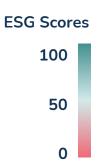


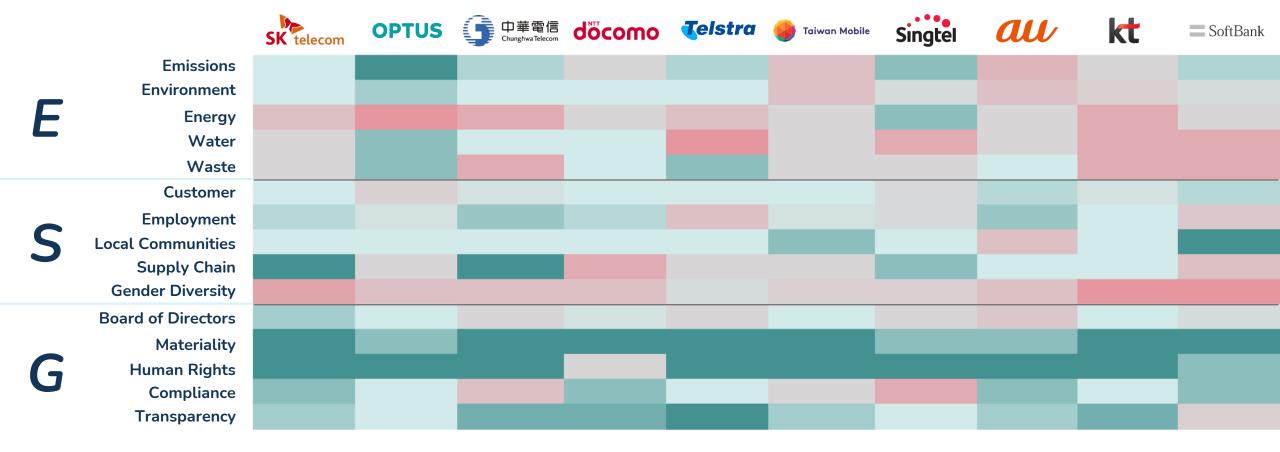


Performance on ESG Framework: ESG Scores



Performance on ESG Framework: Heat map









twimbit top 10 telco ESG leaders profile

#1 Environment

#2 Social

#3 Governance

1.

SK Telecom

Encouraging customer participation to drive ESG awareness



Ryu Young-sang, CEO





We will take concrete action to increase the share of renewables to 100% by 2050 and gain recognition as an eco-friendly ICT leader. We will also continue to exert positive influence through campaigns such as happy habit to encourage customers to reduce the use of disposable plastic products.

Performance on twimbit ESG Framework





Top Initiatives



monitor climate change

Leading ESG programs across our 3 pillars

Environmental	Social	Governance
Reducing plastic waste,	ESG donation program to	'ESG Innovation Group' to

drive sustainable habits

one cup at a time

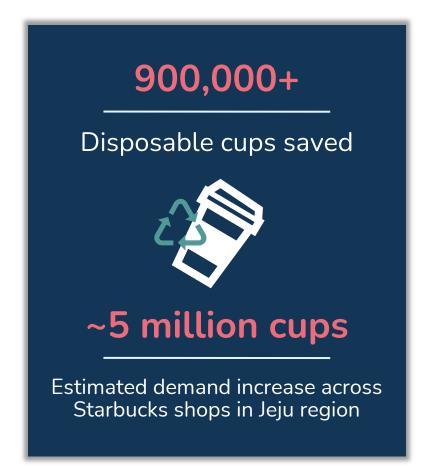


Reducing plastic waste, one cup at a time...

Happy Habit is an ICT-based reusable cup circulation system

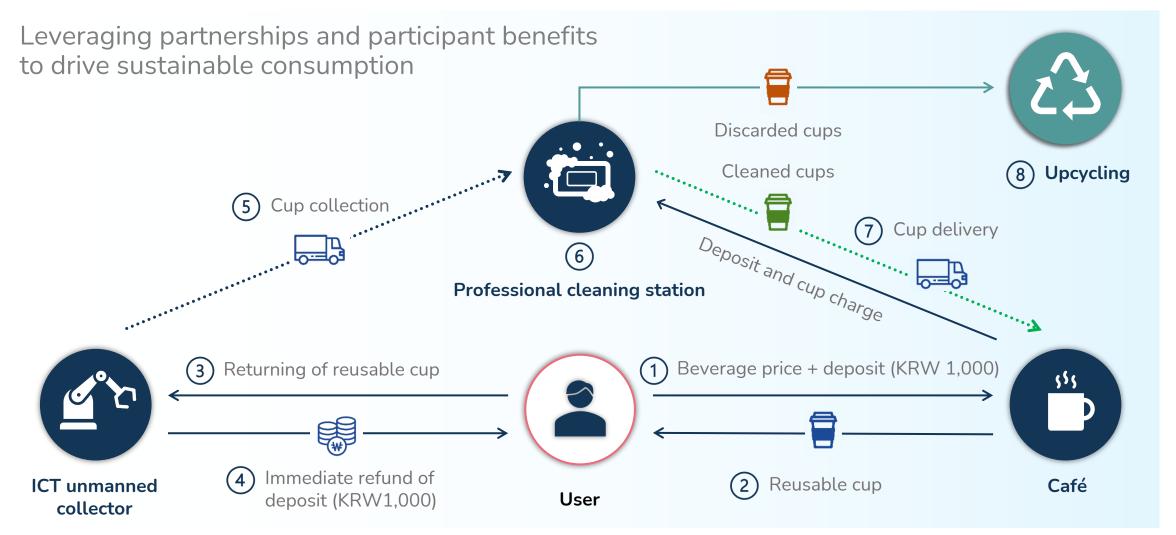








...Happy Habit reusable cup system structure





ESG donation program to drive sustainable habits

Happy Credit program allows customers to donate towards societal development by purchasing sustainable products and services



~\$595 K

Total Donations (Nov 2020-Oct 2021)

2.55 million

Customers who donated under the program

337%

YoY increase in donors

Programs funded

12,000+

Households using AI care for elderly

51+

Special schools being provided ICT education





Dedicated 'ESG Innovation Group' monitors...

ESG Monitors GHG emissions, and resource consumption Working-level **Innovation** Identifies ESG issues and conducts assessment on group Group possibility of occurrence and severity of the results Reviews risks with significant impact **CFO** Management **CEO** Reviews risks with serious impacts Consists of three external executives with ESG expertise **ESG Board of Directors Committee** Reviews FSG issues and makes the final decisions



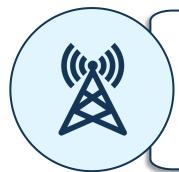


...climate change risks across five areas



Reputation

Investors perception of SKT's ESG



Technologies

High electricity usage of 5G equipment



Physical

Abnormal weather events due to climate change



Market

Increase in GHG emissions due to 5G adoption



Policy

2050 Net Zero implementation







Match up with SKT

Leverage customer participation to raise ESG awareness and enhance brand perception

- Use partnership model to provide ESG services and facilities
- Develop platforms where customers and other ecosystem players can do their bit
- Invest in a dedicated team that manages ESG risks in real time



2. Optus

Advocating recycling across value chain



Kelly Bayer Rosmarin, CEO

OPTUS

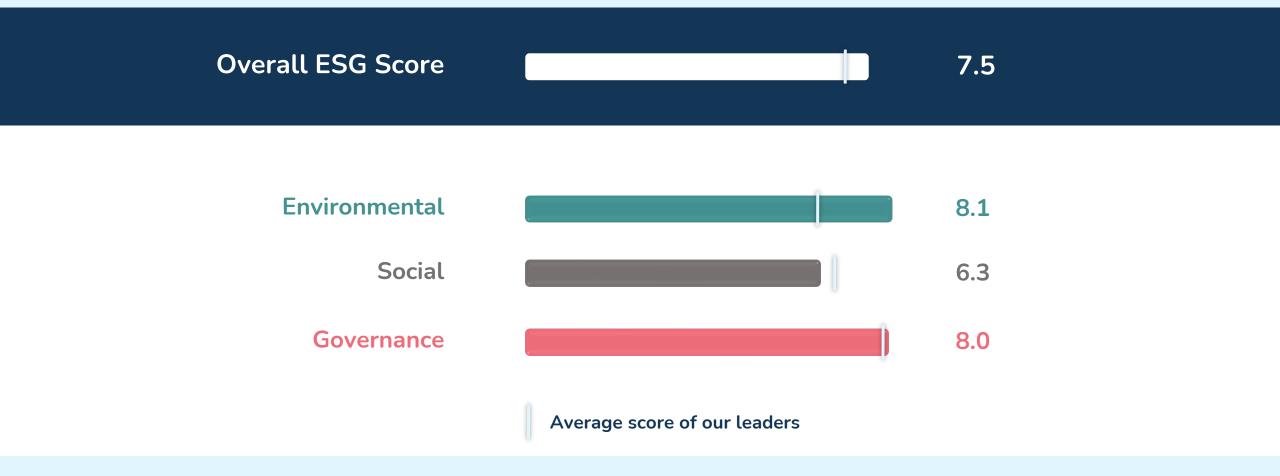


By the end of 2025, 100% of our electricity requirements will be backed by renewable energy sources, and we will reduce and recycle over 90% of our electronic waste.



Performance on twimbit ESG Framework





Top Initiatives

OPTUS

Inclusion Action Plan

Leading ESG programs across our 3 pillars

Environmental	Social	Governance	
Championing mobile	'Donate Your Data',	Optus Accessibility and	

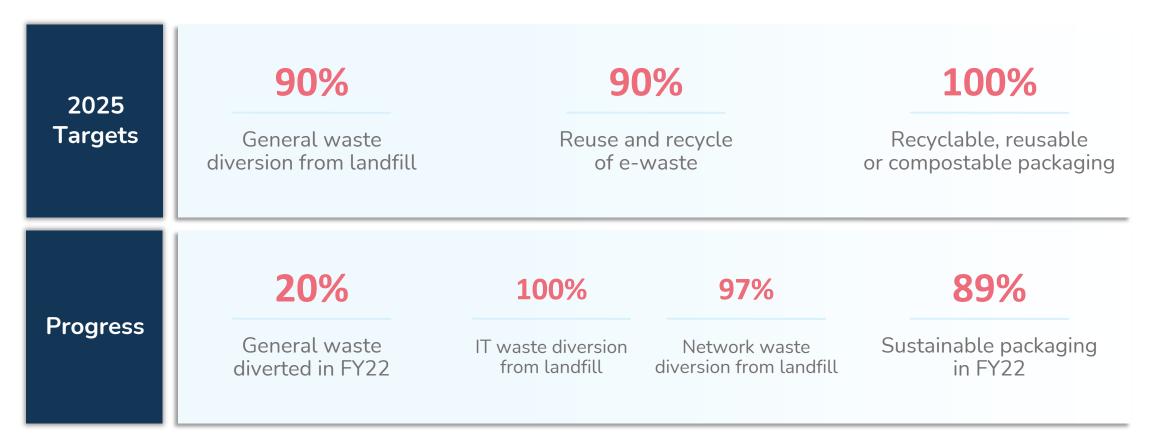
helping the underprivileged

phone recycling



Reuse, recycle and repurpose

A shift from a 'take, make, dispose' way of thinking, to one that is restorative and regenerative



MOBILE

PHONE



Advocating mobile phone recycling

By hosting collection points in retail stores and including paid recycling satchels in pre-paid mobile bundles

Resources saved

63 tonnes

of mineral resources saved through recycling

136,328 MJ

of fossil fuels indirectly saved through recycling

Greenhouse benefits

12 tC02e

of greenhouse gas emissions prevented

36kg

of particulates avoided through recycling



of summer smog avoided through recycling

323

Equivalent trees planted



OPTUS

'Donate Your Data', helping the underprivileged

Enabling customers to donate unused data to young people, their families and other Australians in need

27,148+

Youngsters part of the program

100,000+

Expected beneficiaries by 2025

40,257,360 GB

Data donated by customers

534,000

Unique donors





Optus Accessibility and Inclusion Action Plan

The 4 pillars of the plan aim to minimize and, wherever possible, remove barriers to access for the disabled



Workplace

- Establishing a 'Senior Leader Accessibility Action Group'
- Training talent acquisition on recruiting disabled employees



Customers

- Retail stores in compliance with 'Disability Discrimination Act'
- Inclusive design approach for products & services



Communities

- Official partner of the Australian Paralympic Team
- Doing business with disability advocating employers



Innovation

 'Optus Future Makers' social innovation program develops technologies in support of people with disability





Conomy Roadmap

2021-25 for packaging

Increased our e-waste collection



by 62% as part of the Mobile Muster program

Won the
Australian
Packaging Covenant
Organisation
(APCO) Industry
Sector Award

Match up with Optus

Transform from 'take, make, dispose' way of operations, to one that is based on sustainability

- Invest in recycling and sustainable packaging to lower waste
- Develop solutions (such as data donation) to meet digital inclusion targets without stretching current capacity
- Make 'accessibility' a 'way of work'

3.

Chunghwa Telecom

Using new tech to monitor and manage ESG



Chi-Mau Sheih, CEO



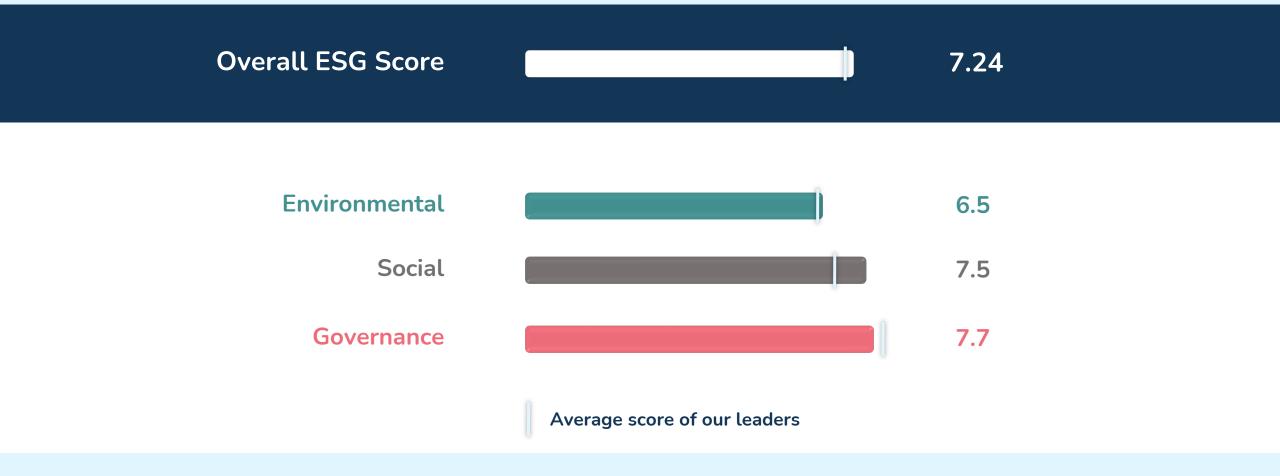


Looking forward, we shall continue to take one step at a time, striding steadfastly towards the corporate sustainability and pushing for various ESG actions on the ground. Meanwhile, utilizing our core expertise in ICT, technologies, resources, competences, and features, we efficiently help resolve social issues, exercise our commitment as a corporate citizen, and create values for stakeholders across fields.



Performance on twimbit ESG Framework





Top Initiatives



human rights

Leading ESG programs across our 3 pillars

Environmental	Social	Governance	
Self-developed EARTH	Strong pay parity to drive	Proactive monitoring of	

gender equality

system for control of

environmental information



Internal EARTH system for 100% control of environmental information



Power Management

Centralized tracking and payment system for 64,710 electricity accounts



Carbon Emission Management

Centralized tracking of emissions and carbon verification information





Fuel Management

Tracking and analyses of fuel used by hybrid and ordinary vehicles



Corporate Tree Planting

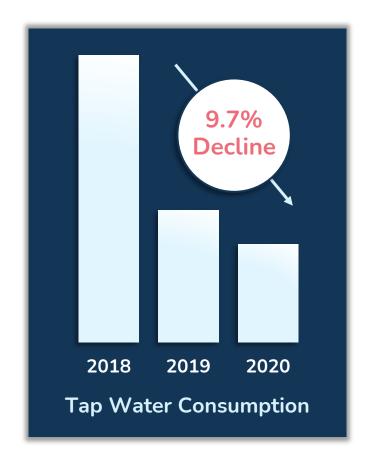
Management and location tracking of over 67,350 trees





Earth system water bill management function

Using technology to monitor and manage water use





Centralized Payment

To monitor management goals and control water use



Error tracking

Exception reports to avoid mistakes in billing and meter readings



Tracking and analysis

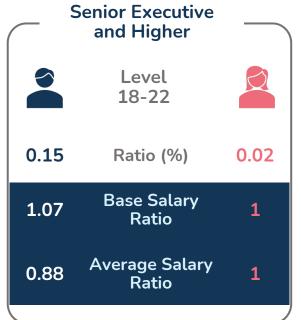
Generate trend charts and reports to reduce consumption

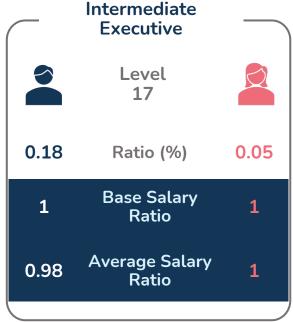


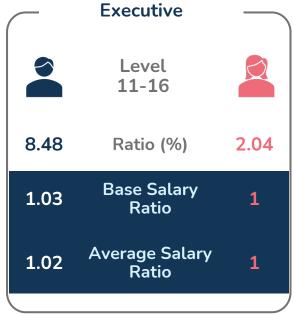


Using pay parity to drive gender equality

Number of employees in each grade and gender salary ratio











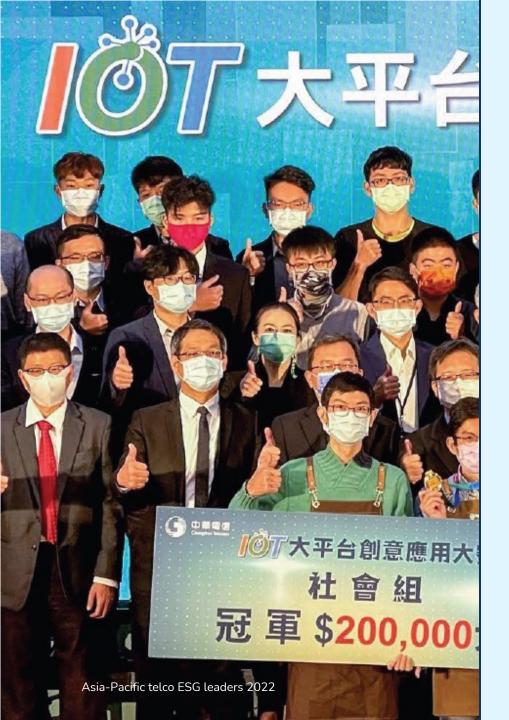


Proactive monitoring of human rights

Adherence of human rights in line with multiple human right conventions and guiding principles

Value Chain	Coverage	Evaluation Mechanism	Evaluation %
CHT owned institutes	28	 Labor-management meeting Collective agreement Workers' Union meeting Annual inspection 	100%
Subsidiaries	21	Annual CSR inspection	100%
Re-investment Companies	16	Annual CSR inspection	100%
Upstream and Downstream Suppliers	Tier 1 Critical Tier 1 Critical Tier 2	 CSR survey inventory CSR second party audit Occupational health and safety audit 	100%
The Public	All Consumers	 Complaint channels Satisfaction surveys Personal information and privacy protection Minority group service mechanism 	100%







Match up with Chunghwa

Utilize tech capabilities to monitor and manage ESG initiatives

- Develop centralized solutions for full control on execution of ESG goals
- Cultivate equal base pay as a central message for gender equality
- 360^o management of human rights risks to avoid conflicts due to global operations



4.

DOCOMO

Accountability based systems to achieve ESG objectives



Motoyuki Ii, President and CEO

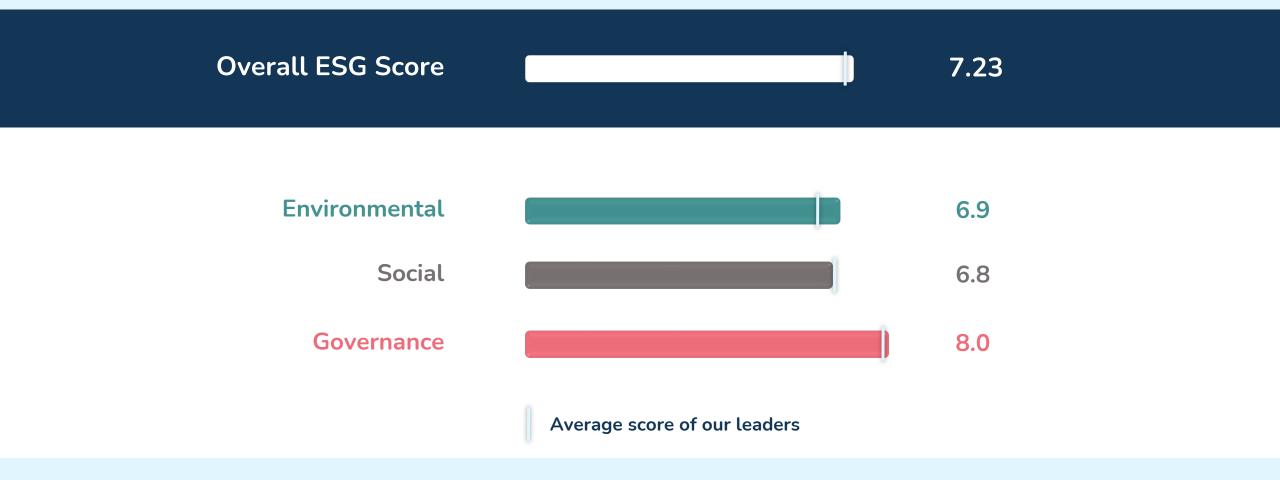
docomo



In tackling climate change, DOCOMO has worked on reducing CO2 emissions across all of society. It has also organized internal expert subcommittees to set specific related goals and implemented action plans to manage and reduce its own electricity consumption and effectively use resources.

Performance on twimbit ESG Framework





Top Initiatives



environmental management

Leading ESG programs across our 3 pillars

Environmental	Social	Governance	
Minimizing paper use	Strong employee feedback	Setting accountability in	

mechanism to improve CX

across the organization



Minimizing paper use across the organization



Office Use

Communicating monthly paper use per person

28.5%

Decline in monthly paper use per person

Billing

Standardized e-billing for all services

530 million

A4-size paper saved annually

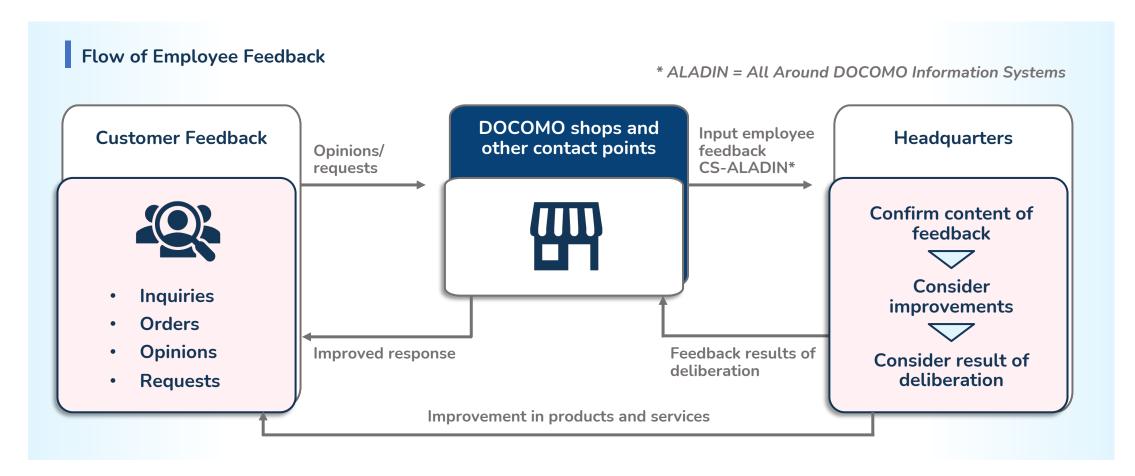
- Promotional Tools
 - Digital user manuals for android smartphones & tablets
 - WIP analytical tool to accurately determine promotional tool requirement for each shop





Strong employee feedback mechanism...

Frontline employees annually submit ~44,000 suggestions to improve CX







...to improve CX

Improvements resulting from interaction between employees and customers in FY20

Online DOCOMO smartphone class

Launched online version of the DOCOMO smartphone class to allow customers to take classes from home



Emergency service access for kids phone

Improved Kids Keitai cellular phone by allowing users to call the Disaster Emergency Message service by tapping on the phone screen

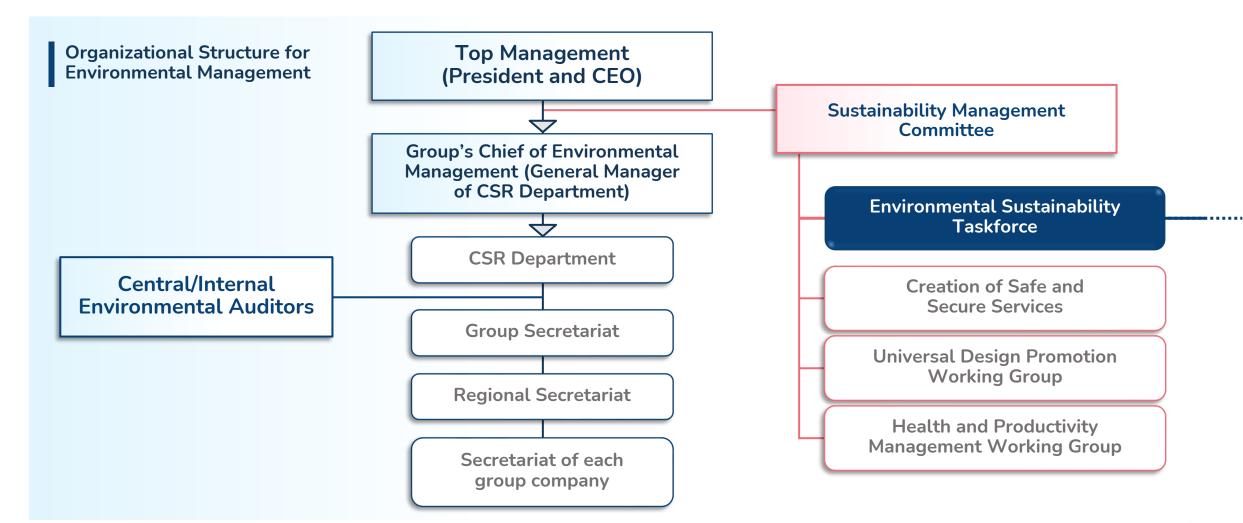
Upper bill limit on 5G Giga Plan

Launched the Giga Plan Upper Setting Option allowing customers to fix the monthly charge on the 5G Gigalight plan





Setting accountability in environmental management...







...by using expert subcommittees for specific targets

Each subcommittee of the 'Environmental Sustainability Taskforce' sets specific sustainability targets every year

Utilizing ICT against Climate Change

Reduce contribution of CO₂ emissions by 40 million tonnes

Energy
Conservation for
Telco Facilities

Achieve a seven-fold increase in power efficiency of telco services compared to FY13

Effective Use of Resources

Lower final disposal ratio of waste to 1.4% or lower

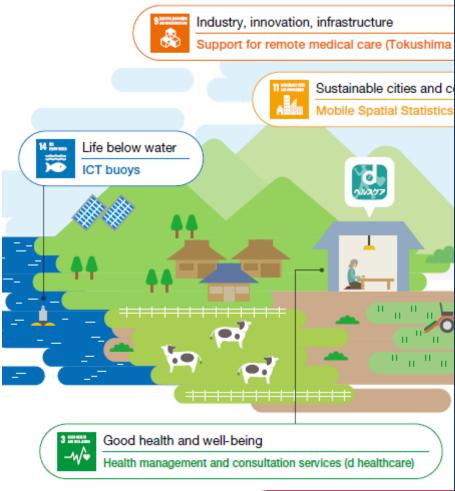
Biodiversity

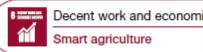
Conduct forest maintenance activities, and expansion of activities on biodiversity



DOCOMO's Vision of a Society Where No One Is Left Behind







Match up with DOCOMO

Use expert teams to efficiently manage various aspects of ESG

- Use first principle thinking to manage resource usage
- Leverage frontline employees for product and service improvements
- Create accountability by having dedicated teams with specific ESG targets



5. Telstra

Helping the unconnected stay connected



Andrew R Penn, Ex-CEO



In digital inclusion - Telstra was recognized as a global leader in the first-ever World Benchmarking Alliance Digital Inclusion Benchmark... (Telstra) helped one million customers in vulnerable circumstances to stay connected through delivery of specialized programs, products and services.

Performance on twimbit ESG Framework





Top Initiatives



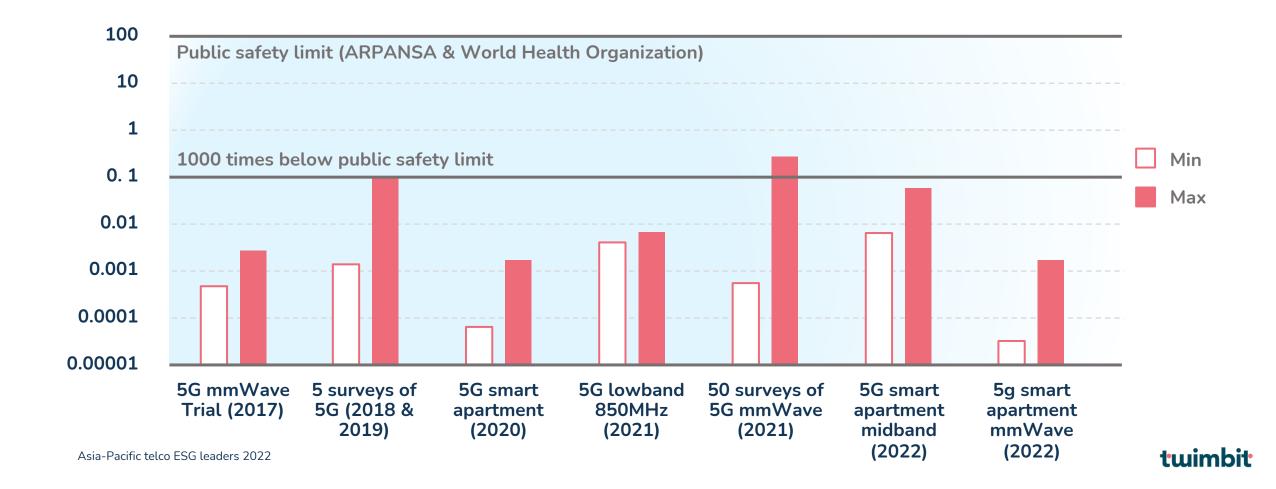
Leading ESG programs across our 3 pillars

Environmental	Social	Governance
Extensive Electromagnetic energy testing on 5G	Tackling digital accessibility	Encouraging speaking up!



Extensive Electromagnetic energy (EME) testing on 5G

Testing done in real world settings to avoid adverse health impacts





Tackling digital accessibility

Improved and upgraded products to bridge the digital divide for customers with disability



Uniden SSE47+1P



Telstra Easy Control Corded Desktop



Uniphone 1150 TeleTypewriter



Superprint 4425 TeleTypewriter

Hearing Loss

Mobility Impairment

Deaf

Cognitive Impairment

Speech Impairment

Vision Impairment





Encouraging speaking up!

Transparent and widely distributed whistleblower policy to support ethical operations

In-depth coverage on

What is reportable conduct?

How to make disclosure?

Confidential disclosures

Compensation and remedies

Protection from civil, criminal and administrative liability

Complaint Channels

Webform

Global complaint numbers

Whistleblowing Committee

Designated Protection Officer

Group Officers, Directors and Group Executives

115

Whistleblowing reports received in FY21

131

Whistleblowing investigations in FY21

30

allegations substantiated in whole or in part







Match up with Telstra

Make products and services as per the universal design principles

- Respond to health concerns arising of 5G with concrete test data
- Deploy a range of products and services covering people with varied disabilities
- Empower employees to improve their work environment



6.

Taiwan Mobile

Generating renewable energy to offset GHG emissions



Daniel M. Tsai, Chairman



Taiwan Mobile



We are the first telecom operator in Taiwan to join RE100, an international renewable energy initiative organization. We promise to use 100% renewable energy by 2040, and set 2022 as the first year of Net Zero initiative. In May, the board of directors formally adopted the goal of Net Zero by 2050, and upgraded the 'Sustainability Development Committee' to the level of board of directors.



Performance on twimbit ESG Framework





Top Initiatives



Leading ESG programs across our 3 pillars

Environmental	Social	Governance	

Dedicated department to monitor renewable energy

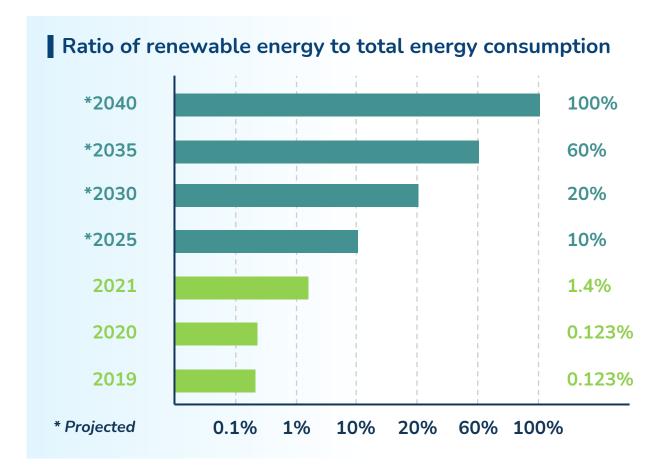
Bridging the Digital Divide b/w Urban & Rural Areas

Rigorous supply chain ESG assessment





Dedicated department to monitor and innovate application of renewable energy



Joined RE100

An international renewable energy initiative organization

Adopted 'Green layout strategy'

30% green electricity from purchasing and 70% from self-built power plants

Progress in FY21

 Installed 12.46 MW renewable energy equipment, capable of generating an ~7.618 million kWh of power annually





Bridging the Digital Divide b/w Urban & Rural Areas

Coding Fun

Courses for underprivileged students (46 volunteers and 176 students)

Free online teacher training sessions on in-house platform (58+ teachers participated)

Digital Wings

~NT\$70 million investment to provide welfare internet access

10,000 openings to disadvantaged students at junior high level or above

Digital Learning
Centers

23 locations and 129 seats

Benefited 62,958 people





Rigorous supply chain ESG assessment

Assessment entails document reviews, on-site audits, setting of KPIs, and risk improvement planning



Joint

review

Supplier evaluation

Desk/off-site review

FSG self-

assessment

questionnaire

ESG evaluation

- On-site reviewDesk/off-site
- review

Risk assessment

Sustainability

threshold for

evaluation of

technical

tenders

- Identifying and evaluating sustainability risks
- Identify high-risk suppliers and risk types

Risk assessment

- ESG and risk assessment report of supplier
- ESG/risk improvement recommendations and supplier improvement

Improvements

Threshold setting Signing code of conduct

- Declaration of Integrity in Business Conduct
- Safety, health and environmental protection guarantee for contractors







Match up with Taiwan Mobile

Leverage ecosystem partnerships to enhance digital and network experience

- Install renewable energy facilities in addition to sourcing externally
- Provide ICT education and facilities for the unprivileged to further digital inclusion
- Develop a thorough supplier ESG assessment process to lower emissions



7.

Singtel

Exploring substantiable financing as an ESG strategy



Lee Theng Kiat, Chairman

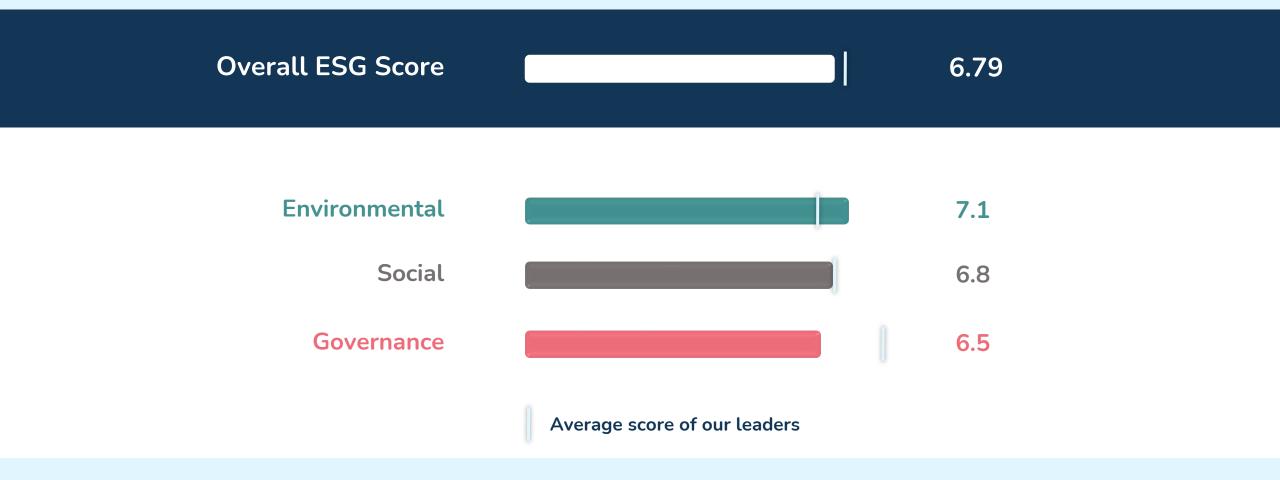




While we restructure to improve the financial outcomes of our investments, we're also working to strike the right balance by strengthening our sustainability commitments. Besides supporting global climate action by minimizing our carbon footprint with greener technologies, we're embedding more conscious climate deliverables such as green financing into our agenda.

Performance on twimbit ESG Framework





Top Initiatives



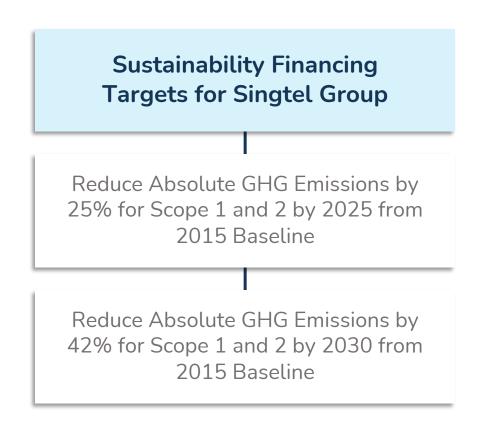
Leading ESG programs across our 3 pillars

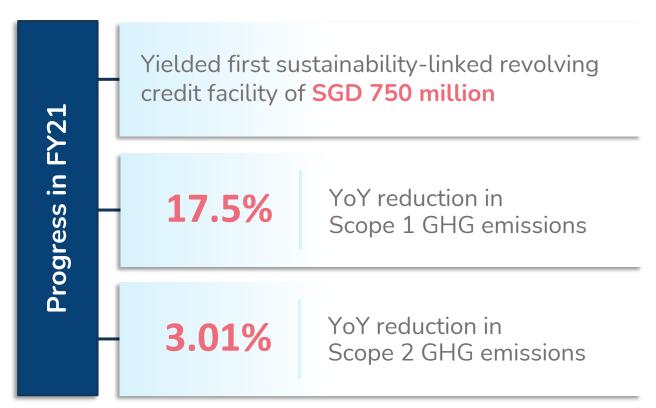
Environmental	Social	Governance
Olives, a dedicated sustainable financing programme	Singtel Group Future Makers	Data driven approach towards materiality assessment



Olives, a dedicated sustainable financing programme

Linking financing with sustainability to achieve 'Net Zero by 2050' target









Singtel Group Future Makers (SGFM)...

The social innovation and accelerator programme provides support to startups in the social and environmental sector

Partner ecosystem

Non-profit sector

Social enterprises

Corporates

Venture Capitalist



Start-ups attending a virtual engagement session with Singtel stakeholders

Support provided

S\$150,000 grant pool

Subject matter experts

Affiliate partners

Mentors







Desired Outcomes	Social Support Required	Potential of Singtel Future Makers Start-Up Solutions		
Keep active to reduce frailty and risk of care recipients	Meaningful social engagement for care recipients	TIMELISS Fulfilling Wishes, Fulfilling Legacies. Digital legacy planning	Al data annotation game to engage seniors	Digital rehabilitative games that enhance
Early intervention to manage physical and mental decline	First responder and local support to meet needs	Remote physical rehabilitation through sensors and wearables	SENZE HUB Wearables to measure vital signs of seniors and early detection for emergencies	the cognitive abilities for people with dementia
Reduce caregiver burden and stress	Peer support and empower caregivers through technology	<pre></pre>	ENMBLER Digital simulation training for hospital staff and caregivers	Community of support for caregivers of people with dementia





Data driven approach towards materiality assessment









Match up with Singtel

Explore sustainable financing as a strategy for achieving sustainability targets

- Link internal and external financing to ESG targets
- Explore startup funding for finding unique solutions to sustainability problems
- Use data to zero in on material topics of maximum significance

Strong internal compliance mechanisms to drive ethical behavior



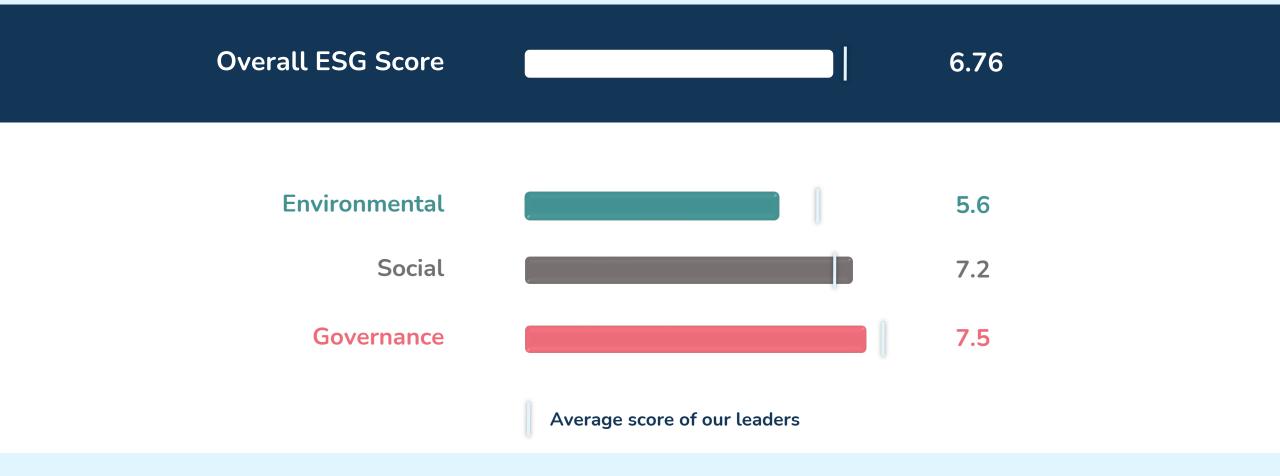
Makoto Takahashi, President, KDDI Corp

au

KDDI believes people are its most important resource. We are working to transform into a company that puts human resources first by placing training at the base of management with the three pillars of 'introducing KDDI Version Job Style Personnel System,' 'Declaration of KDDI New Work Styles,' and 'Internal DX.'

Performance on twimbit ESG Framework





Top Initiatives

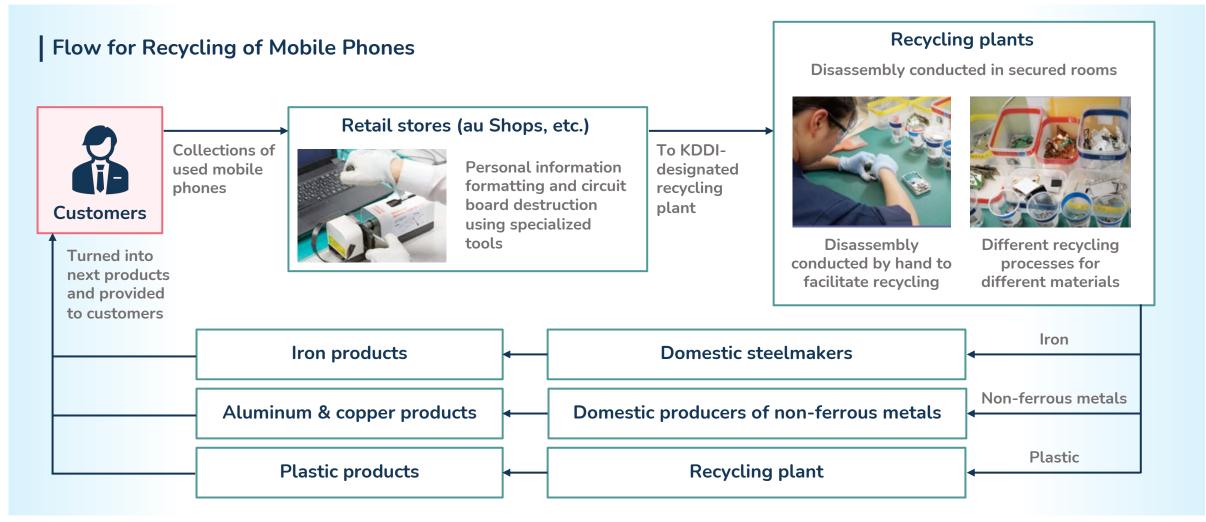


Leading ESG programs across our 3 pillars

Environmental	Social	Governance
Industry best mobile-phone recycling rate	Diverse work styles to match employee needs	Strong compliance and enforcement framework



Industry best mobile-phone recycling rate of 99.8%





Diverse work styles to match employee needs



Work shift interval rule program

Daily work limit set to 9 hours

Variable working hours system

Change working hours monthly

Telework program

Work from home for all employees

Discretionary work system

Focus on high performance in a short time

Lifestyle



Shorter working hours for caregivers

Working hours as per family obligations

Employment within restricted area

For employees with relocation issues

Spouse accompaniment leave program

Leaves to accompany spouse overseas

Work-Childcare balance initiative

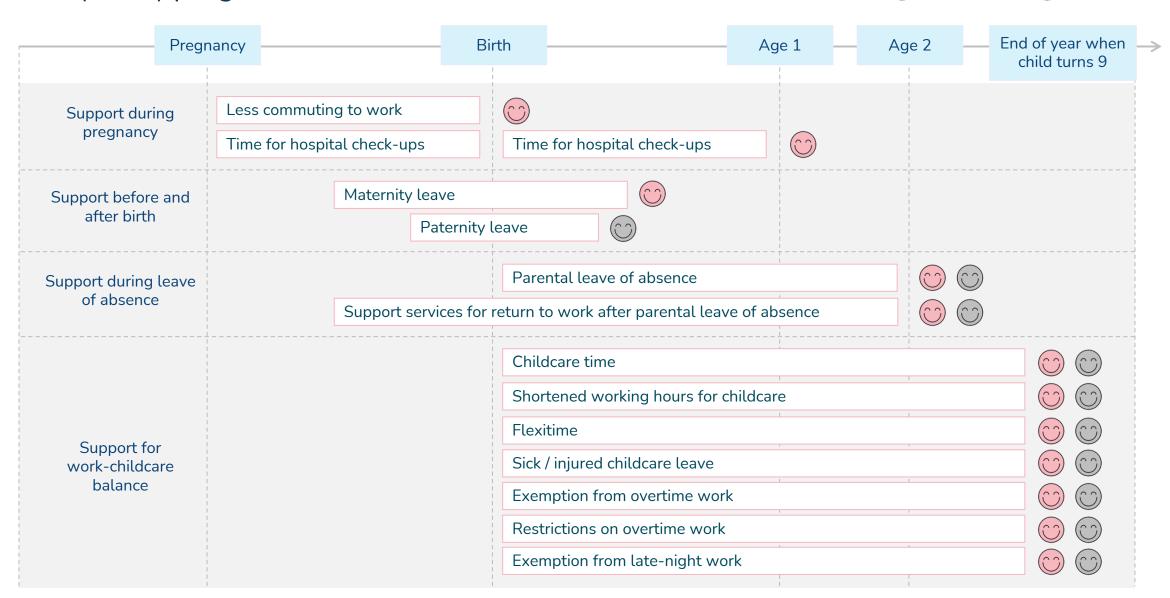
Pre and post child-birth program



au (KDDI) program for Work-Childcare Balance



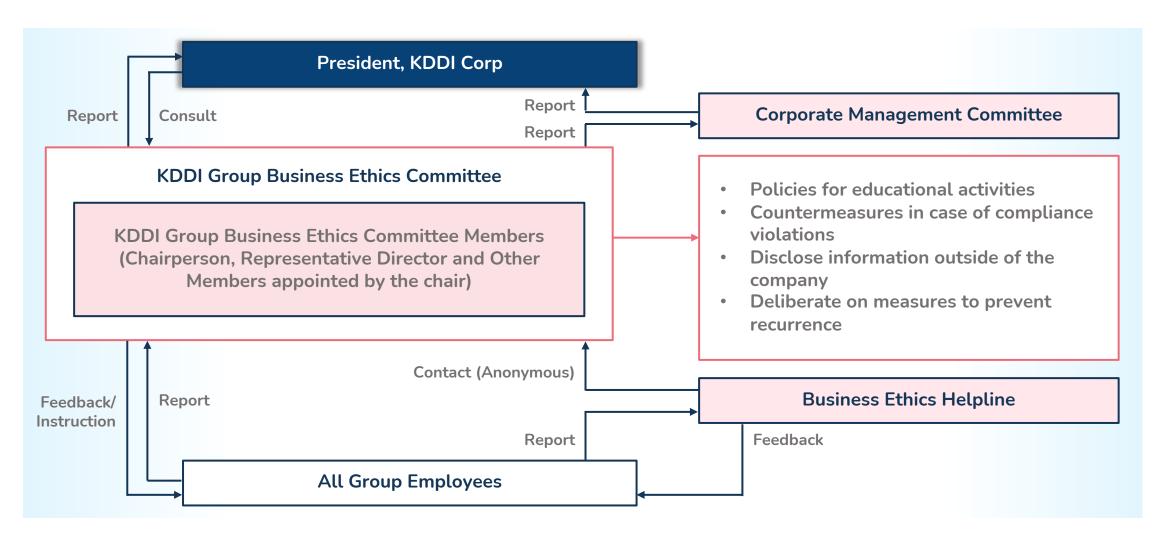








Strong compliance and enforcement framework...







...ensuring ethical business practices

Examples of Initiatives in FY20

Compliance Education, Training and Awareness Raising Target: All KDDI employees

Target: Managers, Group leaders

Target: Group company executives

Promotion of the KDDI Group
Philosophy

Harassment-prevention seminars

Risk management in operations,
legal, and labor management

Compliance Consultations Received in the Last Two Years

Consultations	FY19	FY20
Compliance Consultations	469	1 671
Breakdown: harassments	173	220
Breakdown: other compliance violations	296	1 451







Match up with au

Lay strong internal compliance systems to ensure ethical operations

- Achieve waste reduction targets and lower raw material costs by mobile recycling
- Ensure employee welfare before investing in social welfare
- Provide tailored compliance trainings and reporting mechanisms for redressals

9.

KT Corp

Implementing emerging tech solutions to ESG problems



Hee-Yol Yu, Board Chairperson





KT has announced that we will innovate ourselves and grow as a DIGICO, that we will adopt first-rate management focusing on compliance and transparency as part of our strategy for promotion of ESG that we will strive to find solutions to environmental/social issues, using our differentiated ABC (AI, BigData, Cloud) technology.



Performance on twimbit ESG Framework





Top Initiatives



Leading ESG programs across our 3 pillars

Environmental Social Governance Fostering a system-based

(VOC) innovation



culture of self-compliance

energy management

platform



KT-MEG, an integrated energy management platform

The e-brain is an AI-based analysis engine that provides integrated control of production-consumption-trading of energy across 10,000 sites

e-DNA(Diagnosis)

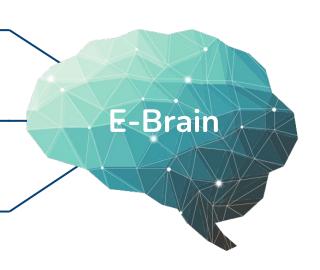
Automatic customer energy use pattern

enerCast(Forecast)

Automate consumption/production forecasts

Robo-operator(Optimal Control)

Optimal control of AI-based energy facilities



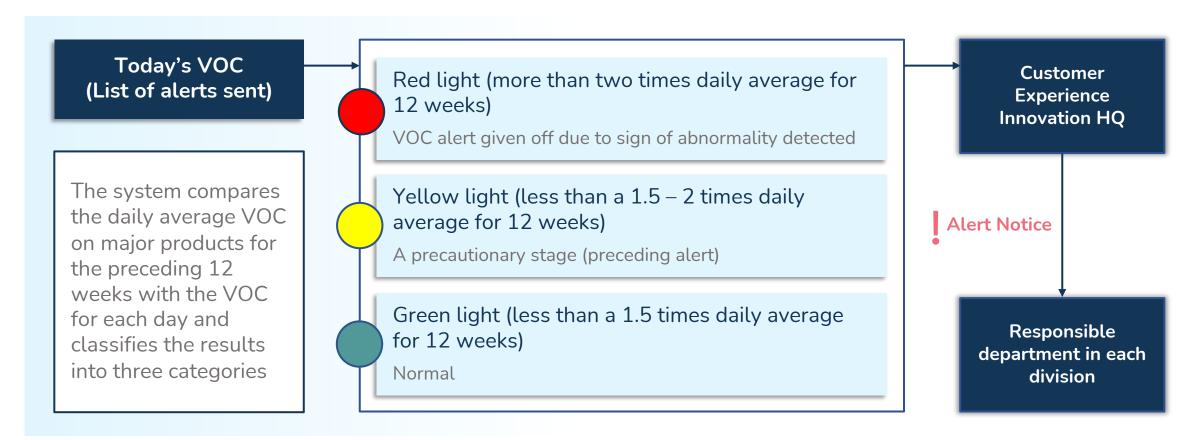






Voice of the customer (VOC) innovation

Big Data-based VOC Alert system designed to immediately communicate customers' complaints to relevant employees







Fostering a system-based culture of self-compliance

Established a company-wide compliance platform

Go to channel for communication on ethical management:

- Sharing exemplary compliance cases
- Cases of audit/lawsuit between departments
- Integrated management of relevant guidelines and manuals

Functionality that allows employees to formulate and manage plans concerning compliance items



Enhancing ethics & compliance related education

Training by expert external institutions

Program for employees of 37 affiliates

Customized educational content for specific positions

144,933

Employees (including affiliates) who attended compliance sessions held on 97 occasions in FY 21







Match up with KT Corp

Reinvent sustainability solutions using ABC (AI, Big Data, Cloud) technologies

- Use AI solutions to better manage and analyze energy needs
- Implement 'preemptive tech-based real time solutions' for customer problems
- Develop an internal compliance platform and customize as per requirements

10.

Softbank

Focussing on zero emissions from operations



Junichi Miyakawa, President & CEO

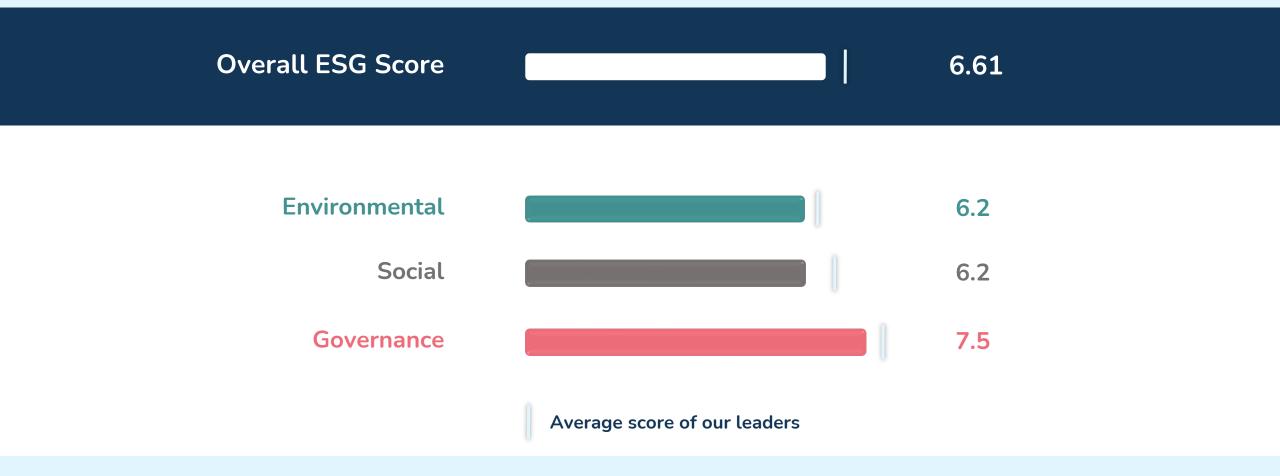


SoftBank has issued the Declaration of Carbon-neutral 2030. To do so, SoftBank will switch to 100% use of effectively renewable energy while reducing energy consumption of its facilities and equipment by applying leading edge technologies such as Al and loT to maximum effect.

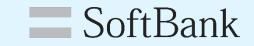


Performance on twimbit ESG Framework





Top Initiatives

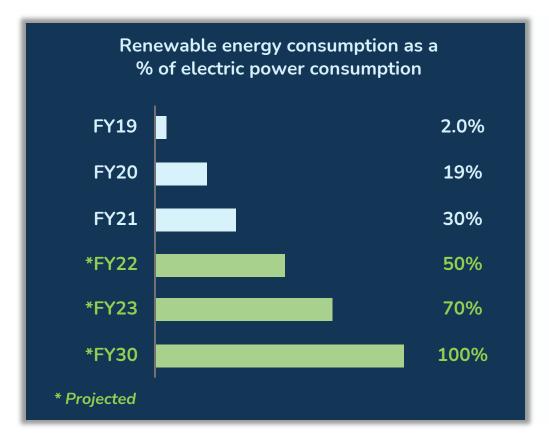


Leading ESG programs across our 3 pillars

Environmental	Social	Governance
Carbon Neutral 2030 Declaration	Helping the hearing impaired to communicate	Mapping Human-rights Risk of High Priority

Carbon Neutral 2030 Declaration

Reduce GHG emissions generated by company business activities and processes (Scope 1, 2) to zero by FY 2030



Carbon Neutral Working Group

The working group operates as a cross-company organization enhancing its reach

Renewable Energy use at Base Stations

In FY20, achieved 30% renewable energy goal; FY22 target is of 70% or more

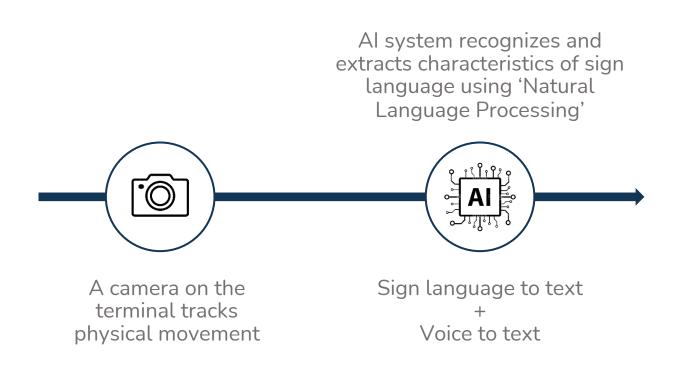
Leveraging group companies

SB Power and SB Energy Corp generate and provide Softbank with renewable power



Helping the hearing impaired to communicate

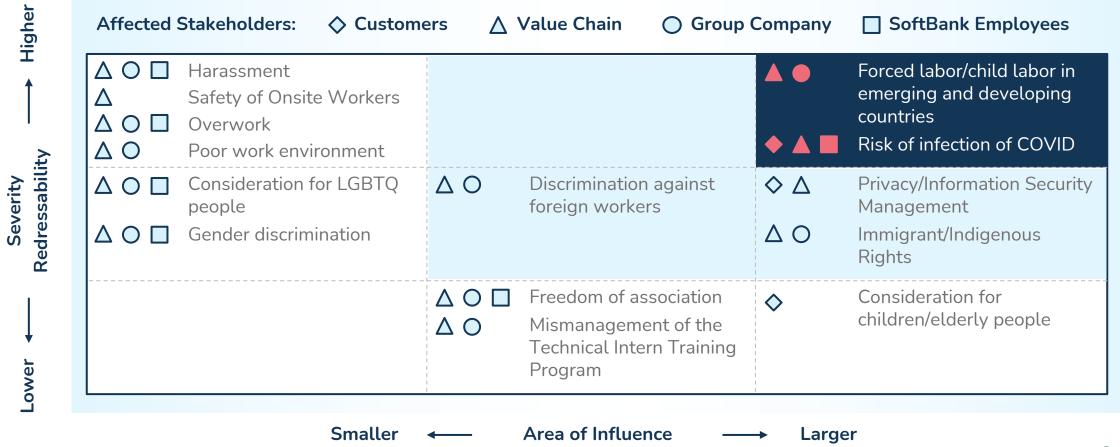
'Sure Talk', a communication tool that enables conversation between sign language, voice and Al





Mapping Human-rights Risk of High Priority

Proactively managing potential negative business impact by identifying critical human-rights risks





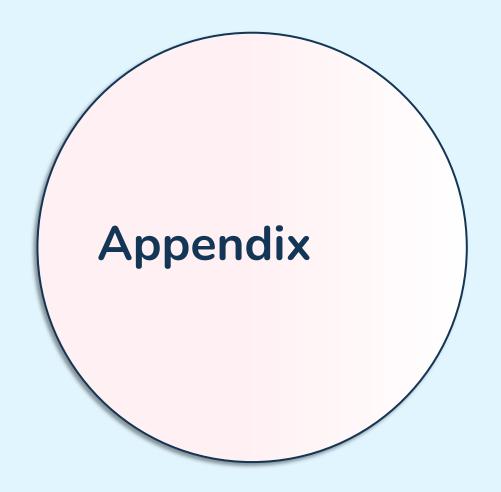


Match up with Softbank

Eliminate scope 1 &2 GHG emissions by sourcing/ producing renewable energy

- Create accountability by forming a dedicated 'Carbon Neutral Working Group'
- Have a cross-company working group that targets emissions across the telco
- Proactively identify and manage human right risks of high severity





#1 Methodology

#2 Acknowledgments

Methodology

Asia-Pacific telco ESG leaders is an annual research report by twimbit.

The telcos have been ranked using an in-house ESG ratings framework developed after discussions with leading industry experts, review of existing ESG literature, reports on major industry participants, industry sources, and twimbit analysis. This research was conducted in Q2 2022.

Steps:

- 1. Shortlisted 80 network service operators across the Asia-Pacific region by revenue
- 2. Developed informed perspectives on ESG through company reports, published anecdotes, contemporary literature and press releases
- 3. Rated and shortlisted top 10 telcos by screening on the twimbit ESG framework



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Acknowledgments

This report was informed by contributions from people around the world, to whom we owe our sincere thanks.

Our sustainability framework was in part inspired by existing work from experts in the field, to whom we express gratitude.

Sustainability research:













Note from the analyst

This report has been primarily adapted from publicly declared ESG practices of Asian telcos as of the date of writing. The data for the framework was gathered using annual reports, ESG declarations, company website, and other trustworthy sources such as industry bodies.

For detailed methodology please check appendix.

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