

Singtel Group Sustainability Report 2019



About this Report and Contents

This is the fifth Group Sustainability Report by Singapore Telecommunications Limited (Singtel). It covers the sustainability performance of our operations in Singapore, where Singtel is headquartered, and Optus, our wholly-owned subsidiary in Australia, for the financial year 1 April 2018 to 31 March 2019 (FY2019).

This Sustainability Report (SR2019) covers the company's strategies, initiatives and performance in relation to Environmental, Social and Governance (ESG) issues. All data, statistics and improvement targets are for the Group's operations in Singapore and Australia unless stated otherwise. Group-level figures are in Singapore dollars, using the exchange rate of A\$1 to S\$0.9898. No restatements were made from the previous report except revenue-related indicators in FY2018 on Page 19 which have been retrospectively adjusted to take into account Singtel Group's adoption of all applicable Singapore Financial Reporting Standards (International) from 1 April 2018, and staff training-related figures of Optus for FY2018 due to errors in certain training hours recorded which affected the Singtel Group figure on Page 27. There were no significant changes to the organisation and our supply chain during the reporting cycle.

This report captures the highlights and achievements of FY2019 and should be read together with [Singtel Sustainability](#) and [Sustainability Report 2019](#) webpages, which contain our corporate sustainability information and additional annexes like GRI Index and EY assurance statement. We continue to disclose Optus' sustainability programmes and performance on [Optus website](#).

Our key local and regional Associates, [SingPost](#), [AIS](#), [Bharti Airtel](#), [Globe](#) and [Telkomsel](#) also report on their various corporate sustainability programmes in the communities they operate in. Please refer to their respective websites and reports to read about their initiatives.

GRI STANDARDS

This report has been prepared in accordance with the GRI Standards: Core option. It also complies with SGX Listing Rule 711 (A) and (B).

EXTERNAL ASSURANCE

We have engaged EY to independently assure a selection of our key ESG disclosures.

The assurance statement can be read on our [website](#).

FEEDBACK

We are fully committed to listening to our stakeholders and we welcome feedback on this report and any aspect of our sustainability performance. Please address all feedback to Vice President, Group Sustainability, at sustainability@singtel.com.



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Key Highlights FY2019

Environment



A- score in CDP 2018, **highest scoring** telecommunications company in Hong Kong and Southeast Asia region



Estimated **carbon emissions avoidance** of 7,987 tCO₂e/year through the adoption of key energy programmes



Achieved **improvement in electricity intensity** of 125 kWh/TB from 151 kWh/TB



Received the **Australia Packaging Covenant Organisation (APCO) Award**



Successfully concluded ten years of annual Plant-A-Tree Day with a total of **1,205 trees** planted in Singapore by **2,320 staff volunteers**

Community



Community investment of **S\$20.3 million** in Singapore and Australia



Involved in standardisation working group of **IEEE SA** to establish the DQ (Digital Intelligence) framework as a **global framework** for digital literacy, skills and readiness



Ten years of supporting Singapore Cancer Society with over **S\$2.3 million** in total funding, benefitting **962 children** and youth



26,709 staff volunteering hours clocked



102 staff volunteers from the Singtel Group of companies and vendor partners participated in **Better Together**, our overseas volunteering programme

People



Training investment of **S\$26.1 million** in Singapore and Australia



Drove **Future of Work** with our HR2020 strategy to ensure that our people continue to stay relevant in this rapidly changing digital age



Clinched three **HR Excellence Awards 2018**: Two Gold awards for Excellence in Total Rewards Strategy and Excellence in Talent Management; Silver award for Excellence in Graduate Recruitment & Development



Listed on 2019 **Bloomberg Gender-Equality Index** and 2018 **LinkedIn Top 25** companies to work for in Australia

Marketplace and Customers



Highest ranked company in Singapore in the Governance and Transparency Index 2018 for the fourth consecutive year



Total capital investment of **S\$1.72 billion** in Singapore and Australia



Launched **FutureNow Innovation Centre** to help enterprises accelerate their digital transformation



Singtel Group Future Makers covering Australia, Singapore, the Philippines, and for the first time Indonesia and Thailand, offered over **S\$1 million** in grants and support for 48 impact start-ups

01 Message from Chairman and Group CEO



In 2019, Singtel celebrates 140 years of heritage. From the first telephone service in Singapore in 1879 to our latest developments in 5G, one thing that remains unchanged is our commitment to ensuring the sustainable growth of our business and meeting the long-term needs of all our stakeholders.

Today, the topic of sustainability has become even more pressing, fuelled by global economic volatility, climate change, breaches in business ethics and trust, growing social service needs and changing consumer expectations on the role of businesses. Increasingly, many of these environmental, social and governance (ESG) issues are coming under close scrutiny by regulators and investors.

With our regular stakeholder engagement and materiality assessments, the Singtel Board and management have earlier identified and deliberated on these emerging trends which shaped our sustainability strategy and helped us to set time-based targets with intended outcome and impact.

We are pleased to share the highlights of how we have progressed, where we believe we can do better and our focus going forward.

LEAVING THE SMALLEST ENVIRONMENTAL FOOTPRINT

2018 recorded some of the most extreme temperatures and weather conditions for Singapore and Australia not seen in decades. In Australia, extreme climate-related events continued to disrupt businesses and cause catastrophic damage to community and the wider ecosystem. These underscore the importance of our strategy and mitigation plans to address the long-term effects of climate change and product stewardship, both of which are material topics for the Singtel Group.

As the first company in Asia excluding Japan to have our carbon reduction targets approved by Science Based Targets initiative (SBTi) in 2017, we continue to focus on energy efficiency measures to reduce our energy and carbon emission levels.

While many of these programmes such as chiller replacements are multi-year initiatives, we are already seeing the

fruits of these efforts in levelling our energy growth. We have significantly reduced the carbon intensity of our business, even while our network infrastructure and customer base continue to grow.

The October 2018 Intergovernmental Panel on Climate Change (IPCC) Report has set a new 1.5 degrees Celsius limit for global warming, down from the earlier 2 degrees Celsius. To achieve and even exceed our 2030 target of 42% Scope 1 and 2 absolute carbon reductions, we are exploring long-term renewable energy supply options. These efforts will also pave the way for our aspiration to be carbon neutral by 2050.

A FUTURE-READY, DIVERSE AND INCLUSIVE WORKFORCE

Singtel is committed to fostering a diverse and inclusive workplace that is reflective of the markets we serve so we can better understand our diverse customer base. Our efforts were recognised globally this year, when we were one of four Singapore companies included in Bloomberg's 2019 Gender-Equality Index for supporting women in the workforce, in leadership and at the Board level.

A third of our board members, management and staff across the Group are women. During the year, two more senior female executives joined the Optus leadership team, including the Deputy CEO of Consumer Australia. We will continue to create a pipeline of female talent and leadership in all our enterprise businesses and technical groups.

We are updating our Optus Disability Action Plan for inclusive employment, physical accommodation and customer-facing channels, and continue to mobilise support for inclusive employment in Singapore via the Singapore Business Network on DisAbility, which we are currently co-chairing.

As we deepen our digitisation efforts, we are taking a proactive approach to ensure our leaders and workforce make a smooth transition into the digital economy. We invested S\$26.1 million in the year in staff learning and development across both Singapore and Australia to upgrade our skills.

ENABLING THE MOST CONNECTED COMMUNITIES

Beyond helping our staff to grow with our business, Singtel recognises that we are also well-positioned to support the inclusion and progress of the communities in which we operate. Our long-term community strategy is developed from our rigorous assessment of material social issues and engagement with the government and social service sectors.

We partnered the Australian e-Safety Commissioner in a series of national awareness campaigns launched on Safer Internet Day in February. As our mobile networks expand in regional Australia, our Digital Thumbprint programme continues to be embedded into our community engagement because we believe it is critical for consumers, both young and old, to maximise opportunities with our high-speed mobile data access without the

unintended consequences such as cyber bullying, screen time addiction and increased privacy risks.

The #DQEveryChild movement by DQ Institute, for which Singtel has been a strategic partner and funder from its beginnings, has grown into a global coalition of member organisations such as IEEE Standards Association, the Organisation for Economic Co-operation and Development and World Economic Forum. We are part of the working group to establish this digital intelligence framework as a global standard for digital literacy, skills and readiness to ensure people, especially children, have the social, emotional and cognitive abilities to thrive in our digital world. Meanwhile, our Thai associate AIS announced in February its intention to bring this programme to Thai students.

The Singtel Group Future Makers social innovation programme, launched in 2016, continues to expand in scope and reach. Last year, together with our regional associates AIS, Globe and Telkomsel, we supported ten regional social impact start-ups that are developing technologies and innovations targeting areas like healthcare, disability enablement and domestic violence. With an alumni of 46 social impact start-ups in Australia and Singapore, our plan in the new year is to support their next stage of growth, both locally and across our regional markets.

GOING FORWARD

While we have made significant progress in our sustainability journey, we recognise that there are areas where we need to improve on.

Australia has introduced a new Modern Slavery Legislation, which we will use to update our Supplier Code of Conduct and engagement process in the new financial year to ensure that our supply chain operates to the highest level of human and labour rights as well as environmental practices. With our 6,800 direct suppliers and many more in their own supply chain, these efforts will take

time. Hence, we are adopting a risk-prioritised approach to due diligence and supplier engagement.

In our sustainability report next year, we will report on our achievements against our mid-term goals set in 2015. We will undertake a new round of formal stakeholder engagement and materiality assessment as well as a Sustainable Development Goals prioritisation exercise to set our new mid-term targets for 2025 and refine our corporate sustainability strategy to guide our programmes. We hope to obtain your valuable input and perspective to help shape our sustainability agenda and strategy.

On behalf of the Board and Management of Singtel, we wish to thank all who have been with us throughout our sustainability journey. We look forward to your continued partnership and support.



SIMON ISRAEL
Chairman



CHUA SOCK KOONG
Group CEO

02 Sustainability at Singtel

The Singtel Group is committed to creating sustainable and long-term business growth, while leading and shaping positive change for our marketplace and customers, the communities we operate in, our people and the environment.



SUSTAINABILITY STRATEGY

As a leading communications company, we simplify lives for our customers, connect people, create jobs and opportunities while making a difference to the wider community through our network investments, innovations and the skills and passion of our people.

We developed and constantly review our sustainability strategy in view of the risks and opportunities we face today and foresee in the horizon. Our sustainability strategy focuses on four key pillars: Environment, People, Community, and Marketplace and Customers.

GOVERNANCE STRUCTURE AND ESG ACCOUNTABILITY

Sustainability is governed across various levels in our organisation – from the Board and Management to the business units and working groups. To embed sustainability across the organisation, our management performance takes into account various Environmental, Social and Governance (ESG) KPIs which form part of their balanced scorecard. For example, Singtel Group CEO has specific ESG KPIs tied to her performance-based compensation, such as creating a bigger impact in the four areas of our community strategy: enabling innovation, digital citizenship, volunteerism and community involvement, and ensuring safety and health considerations in corporate processes and decision making. More information on how we govern sustainability at Singtel is on our [website](#).

STAKEHOLDER ENGAGEMENT AND MATERIALITY REVIEW

Regular engagement with our stakeholders provides a core input for determining our material focus areas. We engage internal and external stakeholders to understand their concerns and emerging priorities. This keeps us agile and allows us to initiate collaboration and be part of formulating or facilitating a solution.

Our Group-wide materiality review was based on four key metrics: our ongoing stakeholder engagement, in-depth survey with management and external stakeholders, life-cycle assessment and peer review exercise. The assessment was based on the GRI Standards' materiality principle for defining report content and aimed to identify any shift in priorities and emerging areas of concern.

Singtel Group Materiality Matrix

Importance to Stakeholders	High	- Innovation - Training and education - Talent attraction and retention - Fair marketing communications - Customer health and safety	- Customer data privacy and protection - Customer satisfaction - Anti-corruption - Product and service quality - Employee health and safety		
	Medium	- Diversity - Digital citizenship and online safety - Inclusion of vulnerable groups - Waste management	- Supply chain management - Climate change and carbon		
	Low				
			Low	Medium	High
			Significance of Impact		
Sustainability Pillars		Environment	People	Community	Marketplace and Customers

Details of our stakeholder engagement, materiality assessment process, value chain assessment and life-cycle analysis are on our [website](#).

We plan to conduct Singtel Group's third formal stakeholder engagement exercise and materiality review in the first half of calendar year 2020. At the same time, we will revisit the Sustainable Development Goals (SDGs) we previously established using a more data-driven methodology to help us prioritise the relevant SDGs at the target level. This approach will help us to focus on those targets which are of greatest need in the regions where we operate as well as those which we can influence as a leading communications service provider. The results from these interdependent reviews will allow us to strengthen alignment among Singtel Group's materiality matrix, the SDGs we support and our mid to long-term goals.

2020 Targets

In 2015, we set the following five-year 2020 targets for the Singtel Group across our four sustainability pillars.



Environment

To manage and minimise our environmental footprint across our business value chain

TOP MATERIAL ISSUES	2020 TARGET	FY2019 ACHIEVEMENTS
 Climate Change and Carbon	Reduce our carbon emissions intensity of kWh/TB by 30% by 2020 and 50% by 2030 using 2015 as baseline	We delivered better data traffic and carbon efficiency on our networks where we achieved a 64% carbon emissions intensity reduction from baseline year of FY2015. (page 15, 19)
 Waste Management	At least 80% of waste generated within our operation disposed via reuse, recycling or incineration with energy recovered	Over 77% of waste generated within our operation disposed via reuse, recycling or incineration with energy recovered. (page 17, 19)



People

To be an admired employer known for fair and inclusive employment practices which promote diversity and equal opportunity

TOP MATERIAL ISSUES	2020 TARGET	FY2019 ACHIEVEMENTS
 Diversity	At least 30% of female employees in Middle and Top Management	27% of female employees in Middle and Top Management. Recognised as one of the top 5 employers for Gender Diversity at the Leonie Awards and included on the 2019 Bloomberg Gender-Equality Index. (page 22)
 Talent Attraction and Retention	Increase 2% pipeline and intake for management associates and cadets, improve gender mix and retention of talent pool by 2% YOY using 2015 as baseline	Increased pipeline and intake of Management Associates and Cadets by 11%. (page 24)
 Training and Education	Training investment of S\$100 million between 2016 and 2020	Total training investment of S\$26.1 million. (page 25) Cumulative S\$104 million of training investment since FY2016.
 Employee Health and Safety	Zero fatality rate	Zero fatality rate. Across Singtel and Optus, we organised several Health and Wellness programmes across four tracks: mental well-being, physical fitness, nutrition and targeted health programmes, and family. (page 25, 27)



Community

To enable the inclusion and well-being of people, and help them realise their potential through our digital technologies and innovative programmes

TOP MATERIAL ISSUES	2020 TARGET	FY2019 ACHIEVEMENTS
 Inclusion of Vulnerable Groups	Community investment of S\$100 million to support vulnerable persons through our various enabling and inclusion programmes between 2016 and 2020	Continued with our community programmes and community investment in FY2019 was S\$20.3 million. (page 28) Cumulative S\$89.8 million of community investment since FY2016.
 Digital Citizenship and Online Safety	Reach at least half a million students, parents and educators in Singapore and Australia through our digital citizenship and outreach programmes between 2016 and 2020	Our digital citizenship programmes reached about 86,000 students in Singapore and Australia in FY2019. (page 32-33) Cumulative >380,000 students reached since FY2016.



Marketplace and Customers

To be recognised as a responsible and innovative market leader who offers excellent customer experience

TOP MATERIAL ISSUES	2020 TARGET	FY2019 ACHIEVEMENTS
 Customer Satisfaction	Lead in 'Customer Experience' in major customer satisfaction measurement tools and indices over tier one telcos in Singapore and Australia	Maintained top spot on the Customer Satisfaction Index of Singapore (CSISG) from 2013 to 2018. Also voted Best Mobile Service, Best Broadband and Best Pay TV Service Provider at HWM+HardwareZone Tech Awards 2019. (page 35)
 Product and Service Quality	Invest in our networks to meet and exceed the quality of service standards set by the relevant local authorities while addressing the topic of long-term climate change adaptation	Total capital investment of S\$1.72 billion in FY2019. (page 35) Cumulative S\$8.26 billion of capital investment since FY2016.
 Innovation	Continue to develop new digital business and services that take advantage of industry changes, leveraging our assets like customer knowledge and intelligent networks, as well as mobile data growth across our markets	Continued to drive innovation at both our core and digital businesses through partnerships, acquisitions and organic innovation. Expanded our social innovation programme Singtel Group Future Makers to include AIS and Telkomsel. (page 36)
 Customer Health and Safety	Maintain 100% compliance with RF radiation levels and safety guidelines set by local regulators and ICNIRP	100% compliant in FY2019. (page 37)
 Customer Data Privacy and Protection	Uphold the highest standards of customer data privacy protection and ensure compliance by our supply chain	Continuous education of staff to safeguard customer data privacy. (page 37)
 Fair Marketing Communications	Uphold the highest standards of professional values and integrity	Adherence to Singapore and Australia codes of advertising. (page 38)
 Anti-Corruption	Uphold and adhere to the Group's zero tolerance policy towards fraud, corruption and unethical actions	Zero tolerance policy towards fraud, corruption and unethical actions. (page 38-39)
 Sustainable Supply Chain Management	To become an industry leader in this area by 2020: 100% contracted procurement spend in line with Singtel Group sustainable procurement policy - Drive responsible business practices across our supply chain in the areas of human and labour rights as well as environment	Updated with a three-year roadmap 2020-2022 to guide our sustainable supply chain management and execution. Currently developing a human rights policy together with a Modern Slavery statement. (page 40-41)

UN Sustainable Development Goals

We have earlier identified 11 SDGs where we believe we have the most impact as a business through our operations, initiatives and programmes.

Singtel Group Programmes and UN SDGs

SDG	SINGTEL GROUP'S POSITION	SINGTEL GROUP'S EFFORTS AND PROGRAMMES
 Goal 3: Good Health and Well-being Ensure healthy lives and promote well-being for all at all ages	The Singtel Group views any potential risk to the health and safety of our stakeholders seriously, and we actively promote health, safety and well-being at the workplace and in the broader community.	Workplace health and safety: We provide a safe work environment for our people and actively promote awareness of workplace occupational health and safety. We introduced a revised Health, Safety and Security Policy which incorporated security and vigilance in all aspects of our work life. (page 25) Digital citizenship: Our efforts in cyber wellness and digital citizenship are the cornerstone of our well-being and safety agenda. (page 32-33) Electromagnetic energy: We monitor research findings on EME and comply with ICNIRP and ARPANSA standards. In Singapore, we engage NEA to conduct EME measurements at locations of concern. In Australia, we design and deploy our network to comply with the relevant Federal Government mandated exposure standards. (page 37)
 Goal 4: Quality Education Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all	The Singtel Group has an important role in enabling the progress, development and inclusion of vulnerable segments of the society through the support of education and skills development opportunities.	Staff training and development: We invest heavily in skills training, education and development of our people to support our Future of Work vision and strategy. (page 24-25) Vulnerable children and youth: We support the education of children with special needs, at-risk youth and young people to prepare them to join the workforce. (page 29-31) Digital citizenship: We actively promote responsible digital citizenship. We are a strategic partner of the global #DQEveryChild learning programme which created the world's first measurement of Digital Intelligence Quotient. (page 32-33)
 Goal 5: Gender Equality Achieve gender equality and empower all women and girls	The Singtel Group treats everyone with respect and consideration at all times, regardless of gender, age, ethnicity, language, cultural background, physical ability, religious belief and lifestyle choice.	Gender representation at work: Female employees are well represented across all levels of the organisation. In Australia, we recognise that more female representation is needed in senior leadership and technical roles. The Singtel Group has an equitable remuneration structure based on work performance without gender bias. (page 22-23, 26-27)
 Goal 7: Affordable and Clean Energy Increase substantially the share of renewable energy in the global energy mix	The Singtel Group is committed to adopting cleaner energy to reduce our reliance on fossil fuels.	Sustainable energy sources: We explore opportunities in alternate forms of energy to reduce our grid dependency. Details of our efforts are on our website. (page 13) Greening our networks: We invest in greening our networks and implement energy efficiency programmes. (page 15)

SDG	SINGTEL GROUP'S POSITION	SINGTEL GROUP'S EFFORTS AND PROGRAMMES
 Goal 8: Decent Work and Economic Growth Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all	The Singtel Group is committed to growing with our people and making the company a vibrant workplace across our global operations.	Fair employment: We employ over 24,000 people worldwide representing about 90 different nationalities. We have been a signatory of the UN Global Compact since 2007. We also have a sustainable supply chain management programme to promote and uphold human and labour rights practices among our suppliers. (page 20, 40-41) Economic growth: We contribute to economic growth and national GDP by supporting Singapore as a key ICT and innovation hub for businesses.
 Goal 9: Industry, Innovation and Infrastructure Build resilient infrastructure, promote inclusive and sustainable industrialisation and foster innovation	The Singtel Group innovates continuously to stay at the forefront to bring the latest and the best services to our customers, and works with changemakers to bring creative solutions to solve social problems.	Innovation: We innovate to bring the latest and the best services and experience to our customers. Our social innovation programme, the Singtel Group Future Makers, supports charities, social entrepreneurs and social enterprises that believe technological innovation plays a key role in addressing social causes in Singapore, Australia and the regional markets where we operate. (page 36) Infrastructure: We invest in our fixed and mobile networks to offer a superior customer experience. We also invest in cyber security to protect the ICT infrastructure of our enterprise customers as well as training of cyber security and smart cities professionals. (page 35)
 Goal 10: Reduced Inequality Reduce inequality within and among countries	The Singtel Group is committed to creating equal opportunity for both our people and our communities.	Workplace diversity: We create an open and trusting workplace environment characterised by equal opportunity, as well as a diverse, inclusive, collaborative and learning culture. (page 22-23) Equal opportunity: We have supported four runs of SG Enable's 12-week RISE Mentorship Programme in Singapore since its launch in 2017. 13 management staff volunteers from various business units mentored tertiary students with disabilities. (page 23, 33)
 Goal 11: Sustainable Cities and Communities Make cities and human settlements inclusive, safe, resilient and sustainable	The Singtel Group leverages our ICT competence to develop solutions that improve quality of living, and focuses on building a resilient network infrastructure.	Inclusive smart cities: We actively support Smart City and Smart Nation visions and we are developing a suite of smart home solutions for our customers. We conduct workshops for senior citizens in Singapore to use smartphones and social media apps, as well as online safety tips like protecting their online privacy and against scams. We are also a founding partner of the Australian Business Roundtable for Disaster Resilience and Safer Communities. (page 16)
 Goal 12: Responsible Consumption and Production Ensure sustainable consumption and production patterns	The Singtel Group actively monitors our waste management practices as part of our business operations and environmental conservation efforts.	Going green: We aim to reduce paper use in our business operations and actively promote the 3Rs – Reduce, Reuse and Recycle – to our people. We provide recycling facilities at our retail shops in Singapore and Australia. We have a joint e-waste recycling programme in Singapore with SingPost and we continue to support the Mobile Muster programme in Australia. (page 17-18)
 Goal 13: Climate Action Take urgent action to combat climate change and its impacts	The Singtel Group is committed to understanding, managing and minimising our environmental footprint across our value chain, including our business operations, suppliers and customers.	Environmental Focus: We have set a Science Based Target of reducing our absolute carbon footprint by 42% by 2030 across our Singapore and Australia operations. We aim to achieve and exceed this target of reducing global warming to below 1.5 degrees Celsius. These targets will reduce our Scope 1 and 2 emissions using a science-based approach, while Scope 3 emissions will be addressed through our supply chain efforts. (page 10-19)
 Goal 17: Partnerships for the Goals Revitalise the global partnership for sustainable development	The Singtel Group is committed to establishing partnerships and collaborations to solve some of the most pressing social or sustainability needs, whether locally or globally.	Key Partnerships: We have formed strong relationships with key partners for our strategic programmes targeting at meeting our sustainability and community needs. These partners include: ABCN, ABR, AVPN, DQ Institute, Global Compact Network Singapore, National Council of Social Service, NVPC, SG Enable, Singapore Business Network on Disability, Telco Together Foundation and The Smith Family. (page 16-17, 29-33)

03 Environment

The Smallest Footprint

We are committed to minimising our environmental impact and building operational resilience to the effects of climate change for our business and the communities.

The Singtel Group Environment Strategy guides our focus on climate action and product stewardship (see Figure 1). More information is on our [website](#).

Figure 1:
Singtel Group's Environment Strategy



ADDRESSING CLIMATE CHANGE

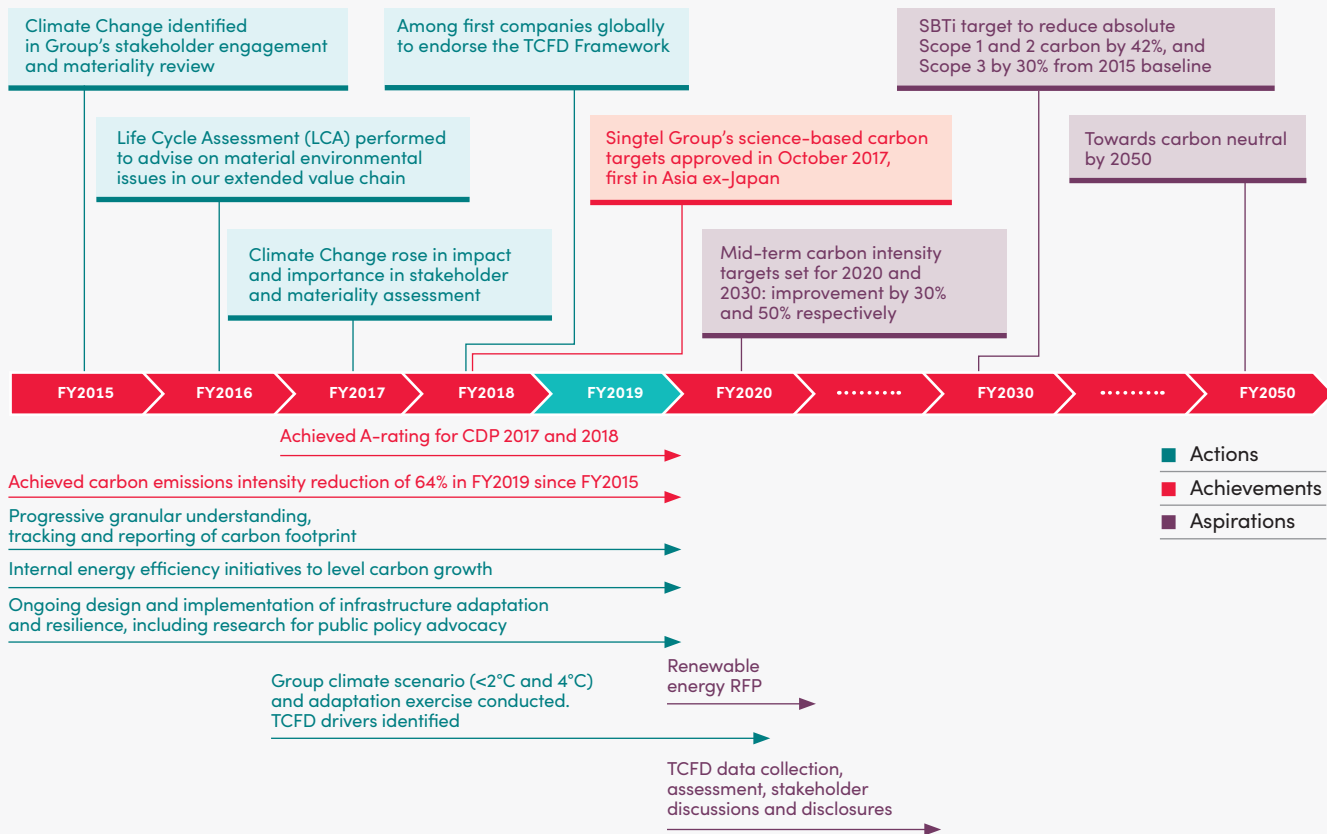
CLIMATE CHANGE AND CARBON

Singapore named 2018 the 'Year of Climate Action' and 2019 the 'Year towards Zero Waste'. In October 2018, the Intergovernmental Panel on Climate Change (IPCC) Report targeted global warming to below 1.5 degrees Celsius by the end of the century, compared to the earlier 2 degrees Celsius. It forewarned disastrous consequences if the target is not met.

Singtel's journey in climate action and environmental sustainability began much earlier, as we recognised that it is not an overnight journey (see Figure 2 and Table 1).

We continue to adopt a holistic approach in addressing the threat of climate change through mitigation and adaptation efforts, focusing on improving our energy performance and efficiency measures, as well as building resilience across our operations.

Figure 2:
Singtel Group's Climate Action Journey Towards 2050

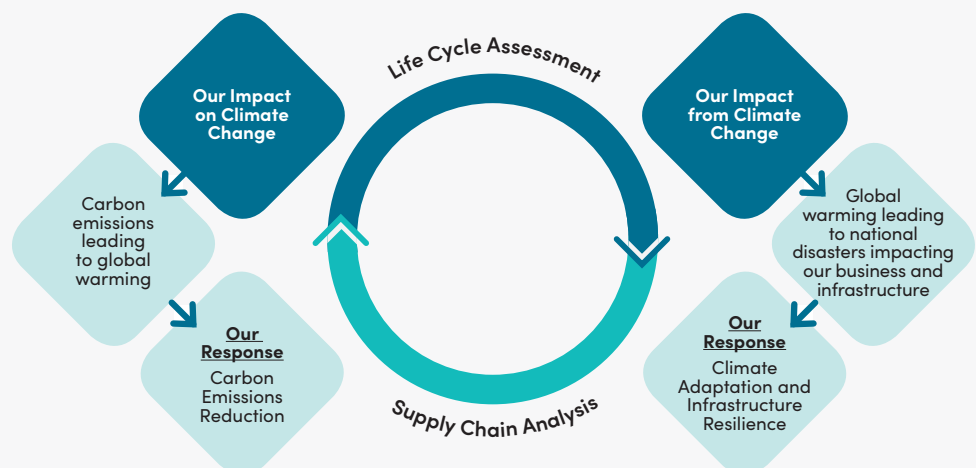


In our formal 2015 stakeholder engagement and materiality exercise, climate change emerged as a concern of moderate importance by our stakeholders. They also assessed that its impact to our business is moderate. Energy efficiency was then Singtel Group's key concern given our growing network infrastructure.

We proceeded to embark on a series of investigations and work which proved to be invaluable to our climate strategy and roadmap, helping us to identify the complexities and interdependencies of the issue. In our following 2017 stakeholder engagement and materiality review, our stakeholders assessed that our

key impact on climate change was mainly from the business' growing carbon footprint. Our business resilience and continuity during major natural climate disasters were the major business risks we faced from the potential impact of climate change (see Figure 3).

Figure 3:
How We Look at the Climate Change Issue



Environment

Climate Change and Carbon

As it is important to understand our initiatives in the past and how they interrelate to our current focus and strategy going forward, we have summarised the major actions, insights and milestones in our climate strategy and journey (see Table 1).

Table 1:
Major Environmental Initiatives by the Singtel Group

YEAR	INITIATIVES/ MILESTONES	RELEVANT INSIGHTS INTO CLIMATE CHANGE AND CARBON	OUR ACTIONS	REPORT
2010 to present	Progressive depth and breadth of carbon disclosure, reporting and external assurance	Understanding our carbon footprint and drivers.	Continuous refinement and validation to achieve a comprehensive view of our carbon footprint.	Sustainability Reports and CDP
2013 to present	Founding member of the Australian Business Roundtable for Disaster Resilience and Safer Communities (ABR)	Research and insights into social and economic impact of natural disasters. Advocacy of government policy and budget in support of adaptation and building resilience, and address the interdependencies under the topic.	Five research reports.	ABR Reports from 2013 to November 2017
2015	Stakeholder and Materiality Assessment	Climate change emerged as a topic of moderate importance and moderate impact.	Mid-term energy and carbon intensity targets set for 2020 and 2030: improvement by 30% and 50% respectively. Widen depth and scope of carbon reporting to CDP for Singapore and Australia.	SR2016
2016	Life Cycle Assessment	Climate change and carbon were the most material environmental issues of concern. Almost two-thirds of our carbon footprint were in our supply chain. This was highly relevant in setting science-based Scope 3 carbon reduction targets.	Environment strategy updated to strengthen focus on climate change and carbon. Climate risk and carbon assessment updated for our Sustainable Supply Chain Management framework.	SR2016
2016	Climate Scenario Assessment: Undertook <2°C and 4°C climate scenario modelling to understand localised climate and business impact to Singapore and Australian operations	<2°C adopted as main scenario for adaptation planning and subsequent target setting under SBTi. Increased risks of inundation affecting business continuity and operations, from combination of future sea level rise and intensity and frequency of rainfall and cyclonic activity. Impact from major interdependent infrastructure such as power networks (e.g. outage), and transport infrastructure (e.g. diversity routing and facilities access). Bushfire risks only moderate given main impact in lower density regional areas.	Adaptation planning and initiatives such as raising equipment levels, draining and flood management at risk prone sites. Upgrade of power generators for redundancy and longer self-sufficient operations. Self-generating power backup at all major points of interconnection. Transmission diversity to minimise impact from single point of failure.	SR2016 – present

YEAR	INITIATIVES/ MILESTONES	RELEVANT INSIGHTS INTO CLIMATE CHANGE AND CARBON	OUR ACTIONS	REPORT
2017 and 2018	Singtel Group achieved A- (Leadership) for carbon reporting in CDP	Strong environment strategy as well as baseline and external assurance of carbon footprint. Also critical for basis to perform forward projection and modelling for SBTi and TCFD.	Preparatory groundwork for SBTi began in FY2017.	SR2018 and SR2019
2017 and 2018	Early adopter to support recommendations of the Task Force on Climate-related Financial Disclosures (TCFD) in June 2017	Structured framework and approach to progressively strengthen Governance, Strategy, Risk Management and Metrics/Performance of climate-related financial risks.	Governance Singtel Board approves material topics, including climate change strategy and targets, reviews progress and performance of business. Strategy Scenario planning already completed for network adaptation and carbon reduction targets setting. Risk Management Climate change updated to Singtel Group's risk register and discussed at Risk Management Committee. Metrics and Targets Carbon and energy intensity and SBTi-approved carbon reduction targets. Work-in-progress for climate-related financial drivers and modelling.	SR2018
2017 and 2018	Science Based Targets initiative (SBTi) approved Singtel's absolute carbon reduction target, first in Asia ex-Japan in October 2017	42% absolute reduction in Scope 1 and 2, and 30% reduction in Scope 3 carbon between 2015 and 2030 for Singtel Group's Singapore and Australia operations.	Ongoing initiatives to improve energy and carbon efficiency in the business. Investigation of larger scale renewable energy sources.	SR2018 and SR2019

Singtel's Efforts on SBTi and TCFD

SBTi

We provide a progress update of our ongoing efforts and results from organic energy efficiency initiatives in this report. However, these efforts alone will not be able to move the needle in achieving a significant reduction in our carbon footprint. Hence, we are currently requesting for proposals from suppliers of larger scale sources of renewable energy over a longer period of time leading up to 2030, and aligned with our SBTi targets.

We plan to report on the assessment outcome in next year's report.

In October 2018, the IPCC released an updated report calling for governments and corporates to work towards a more aggressive target of <1.5°C. Singtel was an early adopter of the SBTi in 2016, having our carbon targets based on <2°C approved in 2017. SBTi acknowledged the early work of companies like Singtel and has given

us up to five years from the original approval date to update our scenarios and targets.

While this needs to be done before 2022, our current focus and priority are to identify the roadmap and initiatives we can take to exceed our original approved absolute carbon reduction targets. We also plan to work towards a more aggressive aspiration target of being carbon neutral by 2050.

Environment

Climate Change and Carbon

Table 2:
Singtel's Indicative Climate Risk Related Financial Indicators

	INCOME IMPACT	BALANCE SHEET IMPACT
Physical Risks Climate-related natural disasters affecting business performance and network resilience and continuity	■ Revenue impact ■ Market share impact ■ Insurance premiums ■ Operational cost of disaster recovery ■ Supply chain risks ■ Customer revenue from ICT service diversity	■ Asset impairment or write-down from damage ■ Capital investment for adaptation or resilience building ■ Capitalised cost of disaster recovery
Transitional Risks Towards a low carbon economy	■ Carbon tax ■ Energy costs ■ Carbon offsets ■ Renewable energy purchase ■ ICT solutions enabling carbon footprint reduction for customers	■ Investments in energy efficient technologies or upgrades (e.g. chillers and lighting) ■ Renewable energy projects
Liability Risks Contractual and legal obligations	■ Service Level Agreement with enterprise customers	■ Provisions for contingent liabilities

TCFD

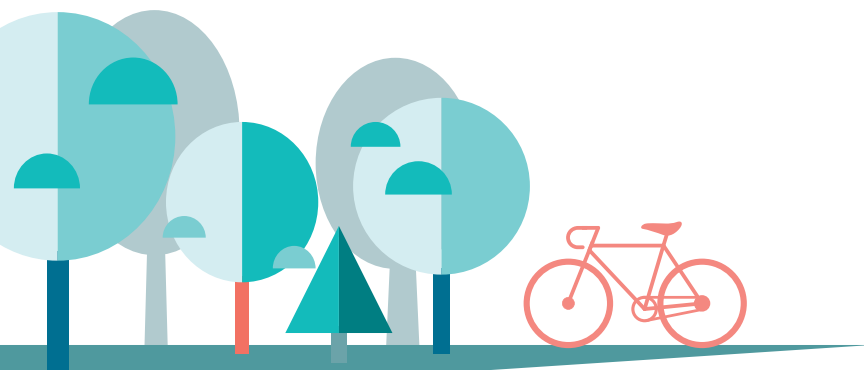
We endorsed the TCFD recommended framework in mid-2017 and have made progress towards its adoption. The topic of climate risks has since been embedded in our updated corporate risk register and reviewed at various levels of management and the Board with mid to long-term targets.

During the year, we began our engagement with various parts of the business to identify key indicators

and business drivers which may have a direct or indirect financial impact from the long-term effects of climate change. We summarise what some of these climate-related financial risks and opportunities may be, organised by physical, transitional or liability risks that have an impact on Singtel Group's income and balance sheet performance in the long run (see Table 2). Our next steps include verifying the financial data and modelling to validate how material these indicators are to Singtel's long-term financial performance.

Internal: Having identified the relevant indicators, our focus for the next two years is to engage our internal stakeholders in progressively identifying the financial data sources to build, test and refine the historical data allocated to climate-related risks. We believe that baselining historical financial information is critical before we begin overlaying forward-looking assumptions and modelling, which will be based on previous and emerging scenarios as well as sensitivity analysis on the different climate change scenarios.

External: We will engage our external stakeholders to test and refine these indicators identified above, especially with the growing interest by investors and major funds. We also recognise that these stakeholders are also starting their own journey of understanding and applying the TCFD guidelines.

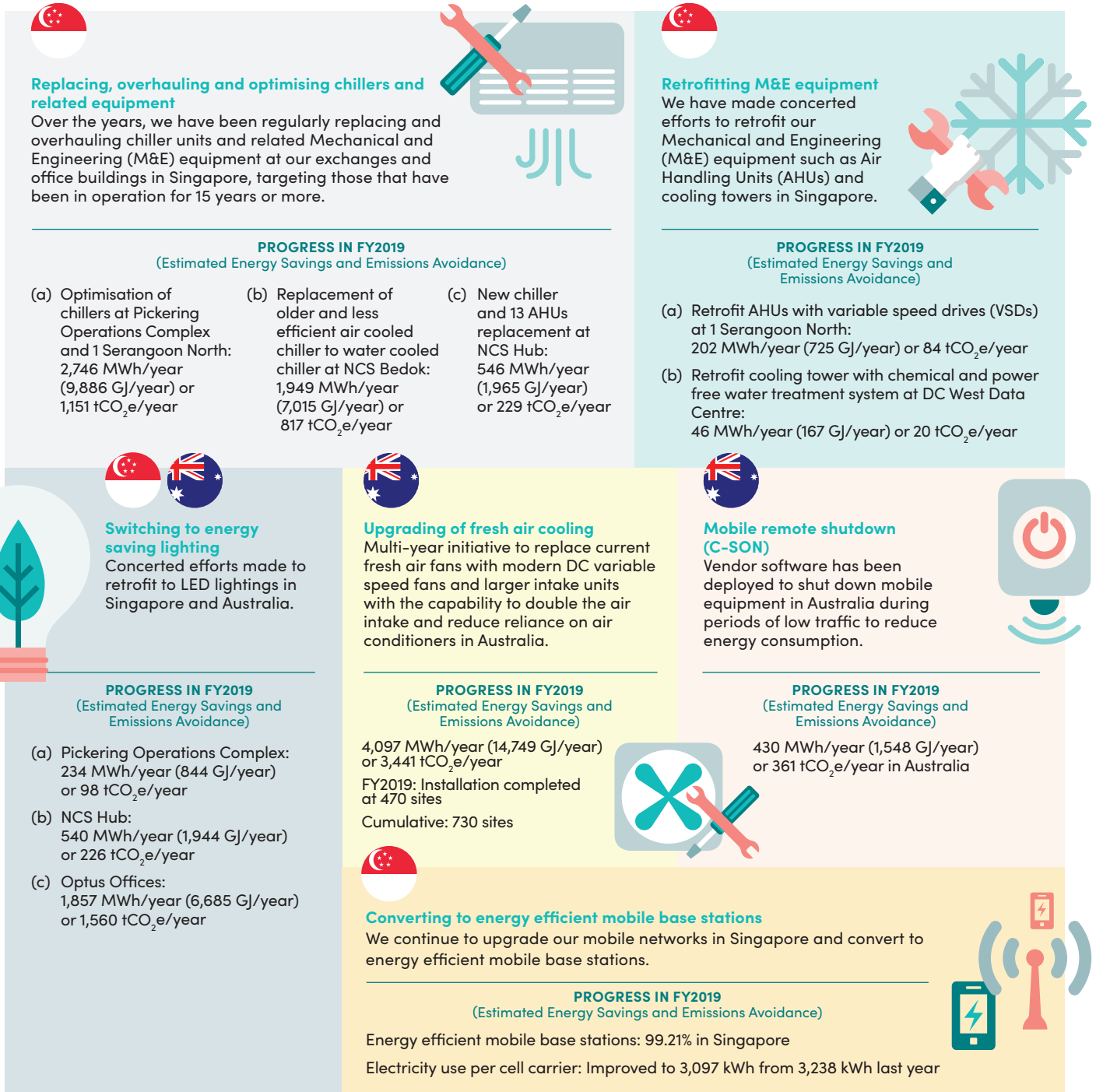


ENERGY PERFORMANCE AND EFFICIENCY: INITIATIVES AND OUTCOMES

We have been working on a number of programmes targeting energy reduction across key energy intensive touchpoints of our operations in Singapore and Australia, such as network infrastructure, data centres, satellite earth stations and office buildings (see Figure 4). For more details on our approach, please refer to our [website](#).

Figure 4:

Examples of Energy Programmes and Achievements





CREATING AN IMPACT: OUR TEN-YEAR JOURNEY WITH NPARKS

Singtel has been working with National Parks Board (NParks) in the past ten years for our annual Plant-A-Tree Day in Singapore. We engage staff to get close to nature by planting local tree species at various national parks to raise their awareness of the importance of environmental conservation and minimising our environmental footprint to reduce adverse impact on Mother Nature.

For our tenth Plant-A-Tree Day, 200 staff volunteers and 20 APSN Tanglin School students planted 100 tree saplings along the Changi Coastal Park Connector Network.

In support of 2018 as the Year of Climate Action in Singapore and celebration of our tenth anniversary, we collaborated with WWF to reforest Rimbang Baling, which is part of the UNESCO Tropical Rainforest Heritage of Sumatra, Indonesia. Home to the critically endangered Sumatran Tigers, as well as 170 plant and 50 mammal species, Rimbang Baling has been vanishing at the rate of three football fields a minute. Every Singtel staff volunteer pledged support through WWF Forest Cards and each adopted tree was planted by WWF in Rimbang Baling.



10 years of Plant-A-Tree Day

- 1,205 trees planted
- 2,320 staff volunteers
- 85 APSN Tanglin School students
- S\$331,000 donated to the Garden City Fund

CLIMATE CHANGE RESILIENCE

Climate change resilience is important to the Singtel Group as we continue to integrate resilience and adaptation into our business and network operations. It is critical for us to review current and new climate related risks and trends in countries such as Australia that are prone to major cyclones and inundations so we can take the necessary steps to prepare and respond to these risks.

We continue to contribute as a founding member of the Australian Business Roundtable for Disaster Resilience and Safer Communities (ABR). We are pleased that ABR's previous research and policy recommendations have been recognised with the Australian Government's formation of the National Resilience Taskforce in 2018 and development of the National Disaster Risk Reduction (NDRR) Framework launched in April 2019, a copy of which can be viewed [online](#). ABR will continue to be actively involved in the NDRR Industry Advisory Forum, which an ABR representative will chair and shape the implementation of the NDRR framework.

During the year, we continued to upgrade mobile sites with power generators and batteries to last up to seven days without utilising the public grid in cyclone prone regions in Australia, as the public power grid is often adversely affected during cyclones and inundations. We also invested in transmission and last-mile diversity and redundancy paths for other cyclone prone areas. To strengthen our network diversity and redundancy, we invested A\$2.14 million in another diverse transmission path along the critical Brisbane-Sydney-Melbourne route to reduce any impact if both Optus coastal and inland routes are simultaneously cut.

We spent another A\$600,000 on two new SATCATS (mobile cell on wheels) to support communities affected by bushfires in New South Wales and Western Australia and cyclones in Queensland. These provide extra network capacity and coverage during disaster response efforts.

Our climate adaptation and resilience efforts are not only limited to our infrastructure. During times of natural disasters, we deploy Optus Trucks which enable the public to charge their mobile phones during extended power outages in their communities, as we recognise how important it is to stay in touch with loved ones when natural disasters strike.

GIVING A HELPING HAND



The Optus Truck at Huon Valley in Tasmania

In early 2019, bushfires burned in the Huon Valley, south of Hobart in Tasmania, depicting contrasting disaster scenes in Australia. At its peak, more than 700 residents were living at the bushfire evacuation centre in Huonville. Our team drove one of our ten Optus Trucks down to the centre to lend a helping hand to the local community.

The Optus Regional LED Screen Truck is a 5,100 kg Fuso Canter 615 wide cab decked out with 3.5m x 1.7m screen. We set it up in the neighbouring showground area to provide charging stations for mobile devices, free Optus prepaid handsets and prepaid vouchers as well as water, bags and battery packs. We also live-streamed 16 channels of emergency service updates on TV screens and broadcast updates about the bushfire situation from a local radio station. For the young ones, we played a daily movie on the TV screen and handed out sweet treats.

Environment

Product Stewardship

WASTE MANAGEMENT

Electronic, packaging and corporate waste such as paper are the key sources of waste generated from across our operations and value chain. We focus on reducing and recycling our own waste, collaborating with partners and suppliers, and redesigning our product offerings to minimise our impact in this area.

E-waste

The Singapore Government is tackling e-waste with the Extended Producer Responsibility (EPR) scheme to be implemented in 2021. Singtel is committed to playing our part in contributing towards this effort.

E-waste is the most material waste stream in our sector, due to the potential pollutive nature of metal, plastic and battery from mobile phones. Our focus is on increasing the recovery and recycling of mobile phones from our customers.

In Australia, we recycle over 98% of our own e-waste and continue to support the Mobile Muster programme, a national industry-wide collaboration stewardship scheme that allows customers to recycle their old mobile phones at any Optus retail store.

We also promoted the Planet Ark National Recycling Week 2018 together with Optus Sport host Mel McLaughlin



Optus Sport host Mel McLaughlin championing e-waste recycling effort to benefit the environment, equivalent to planting 259 trees

to encourage customers to recycle their old mobile phones at Mobile Muster collection points.

Through these efforts, we diverted more than four tonnes of e-waste or 53,437 handsets and batteries from landfill in Australia in 2018, saving 10 tonnes of carbon emissions and conserving 50 tonnes of mineral resource.

As a member of Mobile Muster, we also support its 'Take 3 for the Sea' campaign, which aims to raise awareness of plastic pollution and simple solutions to prevent it. Take 3 targets coastal litter reduction through the education of consumers by delivering education programmes in schools, surf clubs and communities around Australia.

FIRST ANNIVERSARY OF ReCYCLE

On World Environment Day in 2017, we launched ReCYCLE, a national mobile phone recovery and recycling project with SingPost. Customers can drop off their unwanted phones at our retail outlets or mail them using special postage-waived envelopes via any of Singapore's 700-plus letter boxes.

To mark the first anniversary of ReCYCLE, we conducted a lucky draw to encourage consumers to recycle their e-waste. We saw a 500% increase in number of envelopes received during the campaign period.

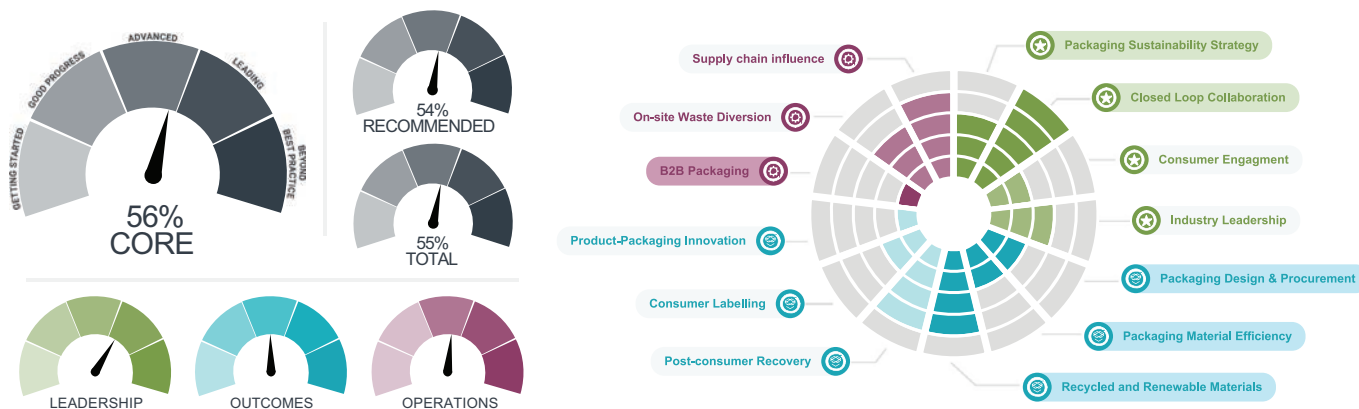
Since its launch, we have seen a 400% compounded growth in collection rates. Our effort has recovered over 24,000 kg of mobile phones, batteries and accessories.



Environment

Product Stewardship

Figure 5:
APCO's Optus Performance Report 2018



Optus was placed in the 'Advanced' category based on our sustainable packaging achievements. Figure 5 shows our performance report by APCO, indicating areas where we do well and their recommendations.

During the year, we also received the APCO Award for our sustainable packaging achievements and efforts in the telecommunications sector. Optus was used as a best practice response case study in APCO member material for Criteria 2.3 Recycled & Renewable Materials for our efforts in this area.

Paper waste

We estimated that we print more than a million pages of paper across Singtel every month. Working with Group IT, we launched the PrintLess campaign by going digital and reducing traditional printing. This helps us to lower our environmental footprint and reduce paper and ink costs from printing and copying, while enhancing information security and management.

In FY2019, we digitised about 18,000 personnel files, totalling three million pages. We have also digitised the signing of 100% of all employee-related contracts and letters. This paperless strategy has helped us reduce monthly printing volume for HR-related matters by 47%.

OPTUS' COMMITMENT TO SUSTAINABLE PACKAGING

Strategy, targets, governance:

Developed a new four-year Sustainable Packaging Strategy 2018–2021 to explore the viability of more than 50 aspirational targets to reduce packaging waste in line with the new APCO framework in the 13 focus areas.

Governance:

Created a new Sustainable Packaging Checklist for our internal stakeholders to align packaging best practices for existing and new products.



Key achievements:

- Recall un-sold SIMs close to expiry and then push them out to quicker-selling channels. Those SIMs that cannot be redistributed or already expired are recycled. A total of 490,000 SIM cards was recycled as part of this initiative, preventing about 1.47 tonnes of material entering landfill and saved A\$2 million per annum.



- Developed a new retail bag made from renewable paper which is 100% recyclable, biodegradable and also uses soy-based inks, which are renewable and low in volatile organic compounds (VOC), diverting 110 tonnes of material from landfill per annum and resulting in savings of about A\$120,000 in printing costs.

Goal:

By 2025, we aspire to make all packaging 100% reusable, recyclable or compostable by working with industry partners for design and material innovation.

Environment

Environmental Performance Indicators



Environment

	SINGTEL			OPTUS			SINGTEL GROUP		
	2019	2018	2017	2019	2018	2017	2019	2018	2017
Total energy use (GJ)	1,347,094	1,395,100	1,404,843	1,749,622	1,724,106	1,702,440	3,096,716	3,119,206	3,107,283
Energy intensity (GJ/\$million revenue)	161	169	177	194	191	194	178	181	186
Energy intensity (GJ/TB*)	0.35	0.43	0.53	0.59	0.71	0.92	0.46	0.55	0.69
(i) Electricity Use (GJ)	1,323,825	1,372,809	1,385,099	1,719,144	1,692,773	1,665,694	3,042,969	3,065,582	3,050,793
Electricity Use (MWh)	367,729	381,336	384,750	477,540	470,215	462,693	845,269	851,551	847,443
Electricity Intensity (GJ/\$million revenue)	158	167	175	191	187	190	175	178	183
Electricity Intensity (GJ/TB)	0.35	0.42	0.52	0.58	0.70	0.90	0.45	0.54	0.67
Electricity Intensity (kWh/TB)	97	118	144	160	195	251	125	151	187
(ii) Fuel use from non-renewable sources (GJ)	22,877	21,935	19,369	30,014	30,869	36,282	52,891	52,804	55,651
(iii) Fuel use from renewable sources (GJ)	392	356	375	464	464	464	856	820	839
Solar energy (MWh)	109	99	104	129	129	129	238	228	233
Total carbon emissions (tonnes CO₂ equivalent)¹	164,629	174,391	173,811	418,060	418,760	418,269	582,689	593,151	592,080
(i) Scope 1	4,085	3,367	1,992	2,567	2,725	2,495	6,652	6,092	4,487
Refrigerants	2,455	1,828	643	470²	589 ²	N.A. ²	2,925	2,417	643
Fuel combustion	733	587	582	291	329	397	1,024	916	979
Company fleet	897	952	767	1,806	1,807	2,097	2,703	2,759	2,864
(ii) Scope 2	154,152	164,470	165,943	402,290	399,257	397,785	556,442	563,727	563,728
(iii) Scope 3	6,392	6,554	5,876	13,203	16,778	17,989	19,595	23,332	23,865
Contractor fleet	411	687	733	1,264	1,168	1,119	1,675	1,855	1,852
Air travel	4,000	3,845	3,113	5,738	8,004	8,551	9,738	11,849	11,664
Employee commute ³	1,821	1,821	1,821	6,201	7,606	8,319	8,022	9,427	10,140
Retail franchisees	160	201	209	N.A.	N.A.	N.A.	160	201	209
Carbon Intensity (tCO₂e/\$million revenue)	20	21	22	46	46	48	34	34	35
Carbon Intensity (tCO₂e/TB)⁴	0.04	0.05	0.06	0.14	0.17	0.22	0.08	0.10	0.13
Total Water Use (m³)	753,238⁵	752,207	814,447	78,774⁶	74,235	82,111	832,012	826,442	896,558
Water Intensity (m³/\$million revenue)	91	90	103	N.A.	N.A.	N.A.	48	47	54
Total Waste: hazardous and non-hazardous (tonnes)	7,538	6,289	4,613	2,294⁷	2,197 ⁷	1,853 ⁷	9,832	8,486	6,466
Total Non-Hazardous Waste by disposal method (tonnes)	2,130	2,227	2,194	1,683⁷	1,972 ⁷	1,177 ⁷	3,813	4,199	3,371
Incineration with energy recovered	1,972	1,968	2,116	N.A.	N.A.	N.A.	1,972	1,968	2,116
Landfill	0	0	0	1,476	1,720	517	1,476	1,720	517
Recycle / Reuse	158	259	78	207	252	660	365	511	738
Total Hazardous Waste by disposal method (tonnes)	5,408	4,062	2,419	611⁷	225 ⁷	677 ⁷	6,019	4,287	3,095
Incineration with energy recovered	282	388	285	N.A.	N.A.	N.A.	282	388	285
Landfill	776	593	184	8	3	10	784	596	193
Recycle / Reuse	4,350	3,081	1,950	603	222	667	4,953	3,303	2,617
Customer E-waste Recycling (tonnes)	63	36	21	4	4	4	67	40	25

Footnotes:

- * TB refers to terabyte of data transported across our network.
- ¹ The carbon emissions reported in the table are based on the reporting requirements of the WRI and WBCSD 'GHG Protocol Corporate Accounting and Reporting Standard'. The equivalent CO₂ emissions for electricity use are calculated based on the updated simple operating margin grid emission factors from the National Environment Agency in Singapore for the relevant time period and from corresponding states in Australia. Scope 1 direct emissions and Scope 3 indirect emissions are calculated using BEIS (Department for Business, Energy & Industrial Strategy) Greenhouse gas reporting: conversion factors 2018. Scope 3 air travel emission factors are derived from WRI.
- ² Optus uses a combination of air, water and refrigerant cooling systems. Refrigerants tracked from FY2018.
- ³ Employee commute carbon emissions data will be updated only when there is a significant change in our company's operations or workforce in Singapore. Employee commute carbon emissions data in Australia applies to Optus Campus in Sydney.
- ⁴ Covers Scope 1 and 2 only.
- ⁵ Total volume withdrawn from municipal water supplies and includes use of 132,374 m³ NEWater instead of potable water. Water stress areas are not applicable.
- ⁶ Total volume withdrawn from municipal water supplies and includes rainwater harvesting of 15,513 m³ instead of potable water. Water use for Optus Sydney campus only.
- ⁷ Data covers waste directly managed by Optus' contracted waste vendor.

04 People

Our Greatest Asset

Our people are key to the Group's long-term growth and success. We want to be an employer that our people are proud to work for.



Singtel management members engaging our 80 new scholars at the Singtel Scholarship Award Ceremony 2018

OUR APPROACH

The Singtel Group employs over 24,000 people worldwide, with about 12,600 in Singapore and 7,800 in Australia.

We provide a fair, performance-based work culture that is diverse, inclusive and collaborative. We empower and invest in equipping our workforce with relevant skills and knowledge to help them thrive in this digital age and our highly disruptive and competitive industry. Above all, ensuring the safety and well-being of our people is of utmost importance to us.

In Singapore, besides abiding by the Ministry of Manpower's (MOM) Employment Act, we practise fair employment that is aligned with the tripartite guidelines set by MOM, National Trades Union Congress (NTUC) and Singapore National Employers Federation (SNEF). In Australia, we adopt the fair employment framework that is approved by Fair Work Australia and governed by our Employment Partnership Agreement (EPA).

We have fostered a very strong and collaborative partnership with the Union of Telecom Employees (UTES) since it was formed in 1982, which laid the foundation for facilitating employee development, promoting the well-being of our people and supporting business growth for our Singapore operations. In Singapore, we had 5,272 bargainable employees (42%) and in Australia, 2,989 employees (39%) who were covered by EPA as at 31 March 2019.

We continued to support NTUC's U Care Fund with an annual donation of S\$100,000. We also disbursed S\$77,600 to about 100 schooling children of our staff under the joint Singtel-UTES Bursary Awards scheme during the year. In August 2018, we successfully negotiated and renewed our Collective Agreement 2018 with UTES for our bargainable staff, certified by the Industrial Arbitration Court of Singapore.

OUR DIGITAL TRANSFORMATION

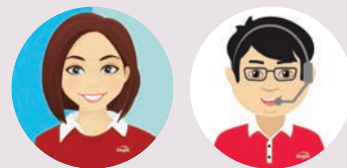
A key focus for the year was driving digital initiatives across the Singtel Group and leveraging automation, artificial intelligence, analytics and agile methodology to improve productivity and customer experience.

As part of our ongoing Robotic Process Automation (RPA) programme, more than 180 bots have been deployed across the organisation to manage repetitive administrative tasks. For example, Group Consumer deployed and trained a telesales bot in two weeks to capture and process the details of customers who subscribed to the World Cup package via our hotline. By the end of the sign-up period, it successfully handled 70% of all subscriptions, allowing our agents to spend more time with customers and manage more complex requests. This resulted in a smoother and seamless experience for customers.

Group Enterprise also launched a fully automated incident management solution to help our customer support staff to manage incident tickets more efficiently. The solution uses our Artificial Intelligence/Machine Learning (AI/ML) Predictive Service Incident Management Engine, which enables us to resolve a range of incidents automatically without manual intervention, improving efficiencies by 37%.

The HR team deployed 18 new bots across Singapore and Australia to improve engagement with our people. We also started using AI/ML to develop predictive capabilities to aid in talent development, engagement and retention. Our new People Intelligence Toolkit helps our people managers to focus on staff development. Predictive capabilities also provide our leaders with customised insights into the factors driving staff turnover in their business units. The time saved through Future of Work digital initiatives enables us to engage our people better and build greater trust in the organisation.

MEET OUR HR CHATBOTS



Our Management Associate Programme (MAP) applications are now processed by Kate, our Chatbot, which helps to streamline the application and screening process while improving candidate experience by being the single interface throughout our multistage MAP application and interview process.

Another HR Chatbot Luis has executed thousands of chats via our staff portal Espresso. It can now provide personalised answers to staff after being fully integrated with Singtel Group HRCentral, our human capital management system.

We are focused on going high-tech to free up valuable time and capacity to provide a high-touch experience and engagement for our people and this will enable us to build a high-trust organisation.

Aileen Tan,
Group Chief Human Resources Officer,
Singtel



People

Diversity and Inclusion

We believe in providing a diverse, inclusive and collaborative work culture as well as an environment that values differences to be successful in achieving our Future of Work vision (see Figure 1). Diversity provides different perspectives and fosters innovative thinking to solve business challenges.



DIVERSITY

GENDER DIVERSITY

Gender diversity remains a key area for the Singtel Group as we continue to focus on increasing the representation of women in senior leadership and key technical roles. Female employees account for 34% of our workforce in the Singtel Group, with 35% in Singapore and 32% in Australia. They represent 27% of our top and middle management positions in the Group.

Singtel was one of four Singapore firms and the only Southeast Asian communications company



Celebrating International Women's Day 2019 at Optus

to be recognised for our gender diversity efforts with our listing in the 2019 Gender-Equality Index by Bloomberg. We were also recognised as one of the top 5 employers for Gender Diversity at The Leonie Awards 2018.

Female Executives in the Singtel Group

Top Management

	SINGTEL	OPTUS	SINGTEL GROUP
FY2019	31%	9%	24%
FY2018	29%	9%	22%

Middle Management

	SINGTEL	OPTUS	SINGTEL GROUP
FY2019	34%	22%	28%
FY2018	33%	21%	26%

MULTIGENERATIONAL WORKPLACE

To support employees across all generations to stay relevant and be resilient to changes happening in this rapidly evolving industry, we actively promote the SkillsFuture for Digital Workplace (SFDW) programmes to raise the digital literacy of our workforce.

DIFFERING ABILITIES

We value the inclusion of persons with differing abilities in our company, in line with our aim to build an inclusive workplace and society. In Singapore, we work closely with national agency SG Enable on training, internship and employment of persons with disabilities, who form a critical talent pipeline given the current labour crunch.

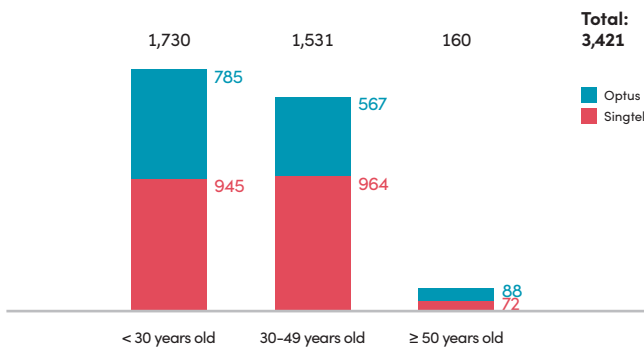
We continue to support SG Enable's Institute of Higher Learning Internship Programme for tertiary students with disabilities and took on three students – one with hearing

impairment and two with Autism Spectrum Disorder (ASD) – who did their internship with our business units for work experience. At the same time, our staff had the opportunity to interact and work with persons with disabilities, thereby shaping a more inclusive workplace and mindset.

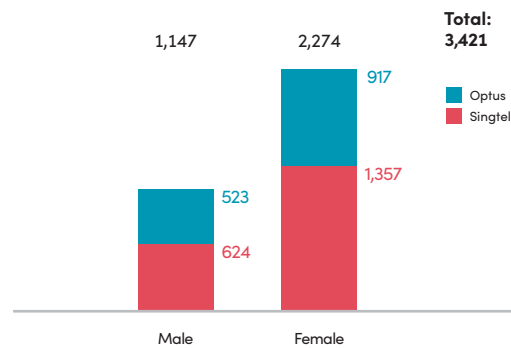
As one of the founding members and the current co-chair, Singtel participates actively in the Singapore Business Network on DisAbility (SBNoD), set up in 2015. The SBNoD group of companies has been supporting SG Enable's 12-week RISE Mentorship Programme for tertiary students with disabilities since its launch in 2017. During the year, Singtel fielded three middle management members as mentors for two students and one young working adult – one with cerebral palsy and two with hearing impairment.

New Hires by Age and Gender

New Hires by Age Group

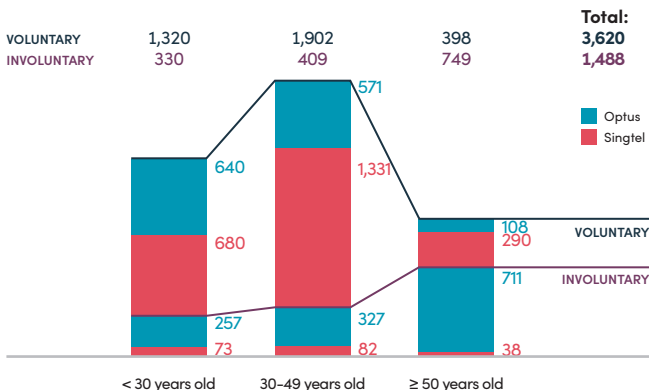


New Hires by Gender

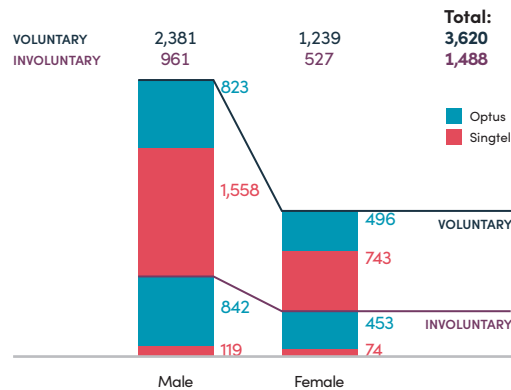


Employee Voluntary and Involuntary Turnover by Age and Gender

Employee Turnover by Age Group



Employee Turnover by Gender



People

Human Capital Development

Investing in our people is critical to our success. We manage our human capital investment by attracting and nurturing our talent, as well as looking after their professional growth and personal well-being during their career with us. Every employee undergoes regular, formal performance and career development reviews, and we encourage leaders to have frequent informal performance conversations with their team members.

To support and accelerate Singtel's digitisation efforts, we introduced new initiatives such as Professional Conversion programmes and hackathons to equip our employees with new skills to stay relevant. To this end, we also launched a new community and collaboration space, Singtel@8George, where we hosted more than 300 sessions to engage and train our talent across the Singtel Group during the year.



Our people taking part in the Leaders-in-Training or LIT Challenge Hackathon at Singtel@8George

TALENT ATTRACTION AND RETENTION

We believe that developing and engaging young talent are key to building internal capabilities in this global competition for talent and meeting our Future of Work aspirations. Today, we have a robust young talent pool, comprising interns, cadets, apprentices, scholars and management associates. We partner a growing number of institutions like polytechnics and universities to help us build a pipeline of future-ready talent. In FY2019, we awarded S\$1.85 million in scholarships and apprenticeships to 80 tertiary students in Singapore, giving them industry-relevant training as well as employment and progression opportunities.

We launched a new programme, Digital Leadership Experience, aimed at grooming digital leaders who are high performers through a structured two-year programme. It gives them meaningful and impactful experiences to equip them with what it takes to lead a digital business, which is vital to Singtel.

TRAINING AND EDUCATION

It is vital for our employees to keep abreast of the latest industry developments and be future-ready. We offer our people a rich and diverse range of training and educational programmes, centred around our four key learning pillars: Compliance, Company, Business and Future. These programmes focus on personal



Fireside chat with Samba Natarajan, CEO of Group Digital Life, with participants of the Digital Leadership Experience programme held at the new Singtel@8George

effectiveness, leadership and technical and functional areas that support our strategic priorities and business needs, such as cloud services, analytics, cyber security and smart cities.

SINGTEL GROUP LEARNING FIESTA

Digital learning was the key emphasis of our 11th Singtel Group Learning Fiesta 2018. It accounted for 87.4% of a record-breaking 97,328 learning places created during the event. Our collaboration with learning partners enabled staff to learn on-the-go using any digital device of their choice for any topic that they wish to explore.

To help our employees take ownership of their own lifelong learning journey, we introduced agiLEARN to enable them to do bite-sized and just-in-time learning anytime, anywhere. They could also develop learning content using blog and video on relevant topics, such as digital hacks and design thinking.

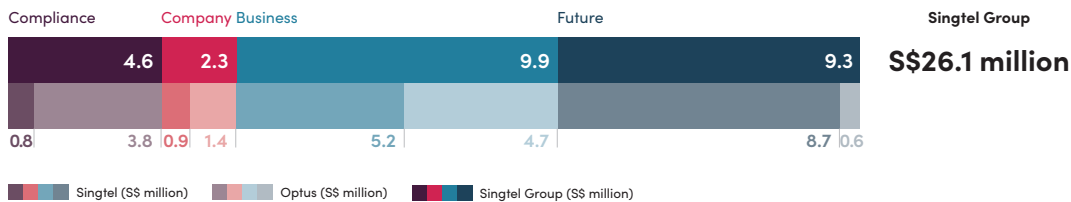
SKILLSFUTURE FOR DIGITAL WORKPLACE AND ELECTIVES

To ride on the rising digital awareness among our staff since the rollout of our SkillsFuture for Digital Workplace programme in late 2017, we introduced ten new digital electives in 2018 to further develop the digital knowledge of our people, especially those in non-technical roles. These one-day electives, in collaboration with partners in academia and consultancy, served as a useful introduction to cutting-edge developments such as cyber security, data analytics, Python coding and blockchain in a simple, digestible form to help raise the digital quotient of our workforce. In FY2019, a total of 1,500 employees enrolled in these electives for a deeper appreciation of these technologies.

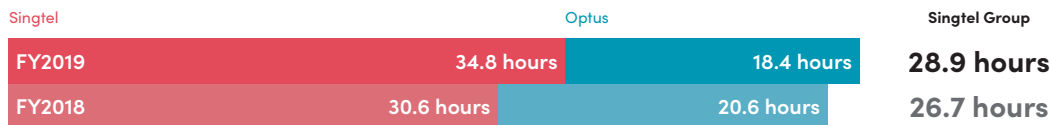


Tan Chee (middle), our service delivery manager who started his career with NCS 19 years ago in hardware support, signed up for the Professional Conversion programme in 2018 and spent six months learning new tools and platforms necessary to automate processes for clients, before moving into his new role which focuses on this new specialisation of automation in the service delivery management team.

FY2019 Training and Development Investment Breakdown by Learning Pillars



Average Training Hours: Delivering More Training Opportunities Through Digital Learning



Training and Development Investment

Singtel

FY2019: S\$15.6 million
FY2018: S\$17.7 million

Optus

FY2019: A\$10.7 million
FY2018: A\$12.4 million

Singtel Group

FY2019: S\$26.1 million
FY2018: S\$30.7 million

EMPLOYEE HEALTH AND SAFETY

The safety and security of our employees are our top priority, and we strive to ensure the physical and mental well-being of our people. During the year, we completed the surveillance audits by our external auditor for both OHSAS 18001 and Singapore Standard SS506 management system, confirming our compliance with the standards requirements. We also successfully renewed our bizSAFE Partner certification in April 2018, as part of ongoing efforts to motivate our service partners – vendors, suppliers and contractors – to raise their workplace safety and health (WSH) standards through the bizSAFE programmes. bizSAFE is a national certification programme that assists companies to build up their WSH capabilities so that they can achieve quantum improvements in safety and health standards at the workplace.

It is our priority to make WSH second nature for our staff, management and vendors as we recognise that everyone has a role to play in building a progressive safety and healthy culture in the company. We are committed to leading industry efforts to strengthen capabilities and build a progressive culture in WSH for Singtel towards Vision Zero – zero accident and fatality.

In September 2018, we revised our Health and Safety policy, now known as the Singtel Group Health, Safety and Security (HSS) Policy. It aims to encourage our people to embrace security and manage such risks as part of our corporate culture and help the company mitigate security threats and breaches.

With the rapid changes in our industry, we actively keep our employees abreast of market developments by providing a series of outreach programmes, inviting

subject experts to give staff insights into best practices and create awareness at our quarterly HSS events.

One outreach programme also gave hands-on opportunities to more than 200 employees to perform rescue operation in a mock-up confined space and expose them to various work-at-height structures at our service partner training centre.

EMPLOYEE WELLNESS

During the year, we embarked on a large scale renovation of our Singtel Recreation Club (SRC) housed at Comcentre, our headquarters in Singapore. We wanted to create a larger, even more comfortable recreation space to enable our people to exercise, play and connect with one another and their families after working hours. The newly renovated SRC boasts an extensive array of recreation facilities for all to enjoy: gym, rock-climbing wall, karaoke, games rooms and a pub aptly named Pub@SRC.

Types of Staff Injury by Number and Gender

SLIP, TRIP AND FALL



10 cases
M: 3 F: 7
4 cases
M: 2 F: 2

TRAFFIC RELATED ACCIDENT



4 cases
M: 4 F: 0
4 cases
M: 4 F: 0

FALL FROM HEIGHT



0 case
M: 0 F: 0
4 cases
M: 4 F: 0

KNOCK ON A MOVING/ STATIONARY OBJECT



0 case
M: 0 F: 0
5 cases
M: 3 F: 2

OTHERS



5 cases
M: 3 F: 2
10 cases
M: 6 F: 4

M: Male F: Female

People

People Performance Indicators



People

	SINGTEL			OPTUS			SINGTEL GROUP		
	2019	2018	2017	2019	2018	2017	2019	2018	2017
Total employees by gender									
Male	8,136	8,455	8,185	5,298	6,021	6,112	13,434	14,476	14,297
Female	4,453	4,640	4,822	2,459	2,847	2,938	6,912	7,487	7,760
Total employees	12,589	13,095	13,007	7,757	8,868	9,050	20,346	21,963	22,057
Total employees by employment contract and gender									
Regular employees (Male)	6,630	7,136	6,742	5,224	5,929	6,005	11,854	13,065	12,747
Contract employees (Male)	1,506	1,319	1,443	74	92	107	1,580	1,411	1,550
Regular employees (Female)	3,855	4,148	4,193	2,413	2,799	2,874	6,268	6,947	7,067
Contract employees (Female)	598	492	629	46	48	64	644	540	693
Total regular employees by employment type and gender									
Full time (Male)	8,112	8,449	8,178	4,612	5,307	5,385	12,724	13,756	13,563
Part time (Male)	24	6	7	686	714	727	710	720	734
Full time (Female)	4,432	4,623	4,803	1,788	2,058	2,101	6,220	6,681	6,904
Part time (Female)	21	17	19	671	789	837	692	806	856
Total employees by age group									
<30 years old	20%	21%	22%	24%	23%	24%	21%	22%	23%
30-49 years old	61%	59%	60%	59%	60%	60%	60%	59%	60%
≥ 50 years old	19%	20%	18%	17%	17%	16%	19%	19%	17%
Gender mix by employee category (% female)									
Operations and Support	41%	41%	43%	40%	42%	43%	40%	41%	43%
Professional	32%	31%	33%	29%	29%	29%	31%	30%	31%
Middle and Top Management	34%	33%	34%	22%	21%	21%	27%	26%	27%
• Middle Management	34%	33%	35%	22%	21%	21%	28%	26%	27%
• Top Management	31%	29%	25%	9%	9%	7%	24%	22%	21%
Salary ratio (female:male)¹									
Operations and Support	1 : 0.98	1 : 0.99	1 : 0.99	1 : 0.96	1 : 0.96	1 : 0.98	1 : 0.98	1 : 0.97	1 : 0.95
Professional	0.97 : 1	0.98 : 1	0.98 : 1	0.95 : 1	0.96 : 1	0.96 : 1	0.95 : 1	0.97 : 1	0.97 : 1
Middle Management	0.97 : 1	0.98 : 1	0.99 : 1	0.97 : 1	0.94 : 1	0.97 : 1	0.97 : 1	0.98 : 1	0.98 : 1
Bonus Ratio (female:male)^{2,3}									
Operations and Support	1 : 0.98	–	–	0.91 : 1	–	–	0.97 : 1	–	–
Professional	0.99 : 1	–	–	0.91 : 1	–	–	0.95 : 1	–	–
Middle Management	1 : 0.85	–	–	0.90 : 1	–	–	1 : 0.96	–	–
New employee hires	15.7%	17.4%	15.9%	18.6%	19.7%	19.2%	16.8%	18.3%	17.3%
New employee hires by age									
<30 years old	7.5%	8.0%	8.3%	10.1%	10.8%	10.0%	8.5%	9.1%	9.0%
30-49 years old	7.6%	8.7%	7.0%	7.3%	7.9%	8.0%	7.5%	8.4%	7.4%
≥ 50 years old	0.6%	0.7%	0.6%	1.2%	1.0%	1.2%	0.8%	0.8%	0.9%
New employee hires by gender									
Male	10.7%	12.2%	10.1%	11.8%	12.9%	12.6%	11.2%	12.5%	11.2%
Female	5.0%	5.2%	5.8%	6.8%	6.8%	6.6%	5.6%	5.8%	6.1%

People

People Performance Indicators



People

Employee voluntary turnover

Employee turnover by age

<30 years old

- Voluntary
- Involuntary³

30–49 years old

- Voluntary
- Involuntary³

≥ 50 years old

- Voluntary
- Involuntary³

Employee turnover by gender

Male

- Voluntary
- Involuntary³

Female

- Voluntary
- Involuntary³

Total training investment (\$million)

Average training hours per employee⁴

Average training hours by gender⁴

Male

Female

Average training hours by employee category⁴

Operations and Support

Professional

Middle Management and above

Employee health and safety⁵

Workplace injury incidence rate

Workplace injury frequency rate

- Workplace injury frequency rate (Male)
- Workplace injury frequency rate (Female)

Workplace injury severity rate⁶

- Workplace injury severity rate (Male)⁶
- Workplace injury severity rate (Female)

Absenteeism rate

- Absenteeism rate (Male)
- Absenteeism rate (Female)

Occupational disease rate

- Occupational disease rate (Male)
- Occupational disease rate (Female)

Fatalities

	SINGTEL			OPTUS			SINGTEL GROUP		
	2019	2018	2017	2019	2018	2017	2019	2018	2017
Employee voluntary turnover	18.3%	17.1%	16.4%	17.0%	15.4%	15.4%	17.8%	16.4%	16.0%
Employee turnover by age									
<30 years old									
• Voluntary	5.4%	5.5%	5.6%	8.2%	8.1%	7.8%	6.5%	6.6%	6.5%
• Involuntary ³	0.6%	–	–	3.3%	–	–	1.6%	–	–
30–49 years old									
• Voluntary	10.6%	10.0%	9.5%	7.4%	6.2%	6.4%	9.3%	8.4%	8.2%
• Involuntary ³	0.6%	–	–	4.2%	–	–	2.0%	–	–
≥ 50 years old									
• Voluntary	2.3%	1.6%	1.3%	1.4%	1.1%	1.2%	2.0%	1.4%	1.3%
• Involuntary ³	0.3%	–	–	9.2%	–	–	3.7%	–	–
Employee turnover by gender									
Male									
• Voluntary	12.4%	11.1%	10.7%	10.6%	9.7%	9.7%	11.7%	10.5%	10.3%
• Involuntary ³	0.9%	–	–	10.9%	–	–	4.7%	–	–
Female									
• Voluntary	5.9%	6.0%	5.7%	6.4%	5.7%	5.7%	6.1%	5.9%	5.7%
• Involuntary ³	0.6%	–	–	5.8%	–	–	2.6%	–	–
Total training investment (\$million)	\$S15.6	\$S17.7	\$S13.8	A\$10.7	A\$12.4	A\$10.8	\$S26.1	\$S30.7	\$S25.1
Average training hours per employee ⁴	34.8	30.6	30.4	18.4	20.6	30.9	28.9	26.7	30.5
Average training hours by gender ⁴									
Male	37.0	31.6	30.4	17.8	20.2	31.2	29.5	26.8	30.6
Female	31.0	28.9	30.3	19.8	21.6	30.2	27.6	26.5	30.2
Average training hours by employee category ⁴									
Operations and Support	31.6	23.3	31.8	27.6	29.3	36.5	30.7	24.7	33.2
Professional	37.2	37.2	30.1	16.1	19.1	28.5	28.7	29.2	29.3
Middle Management and above	32.0	22.0	23.3	17.4	15.7	28.1	24.2	18.5	25.9
Employee health and safety ⁵									
Workplace injury incidence rate	1.5	2.1	1.3	2.2	4.1	1.3	1.8	2.9	1.3
Workplace injury frequency rate	0.7	0.9	0.6	1.3	2.8	0.8	0.9	1.5	0.7
• Workplace injury frequency rate (Male)	0.6	0.6	0.5	1.4	2.3	0.4	0.8	1.1	0.5
• Workplace injury frequency rate (Female)	0.9	1.6	0.8	1.0	4.0	1.9	0.9	2.2	1.1
Workplace injury severity rate ⁶	12.9	14.7	3.3	16.7	7.3	8.7	14.1	12.4	5.1
• Workplace injury severity rate (Male) ⁶	10.9	6.0	1.5	22.7	9.7	4.9	14.8	7.2	2.9
• Workplace injury severity rate (Female)	16.6	30.6	6.3	2.6	1.6	17.9	12.6	22.8	10.2
Absenteeism rate	0.021	0.018	0.017	0.017	0.015	0.015	0.019	0.017	0.017
• Absenteeism rate (Male)	0.017	0.015	0.014	0.015	0.014	0.014	0.016	0.014	0.014
• Absenteeism rate (Female)	0.028	0.024	0.024	0.021	0.017	0.017	0.026	0.021	0.021
Occupational disease rate	0	0	0	0.8	0.7	0	0.2	0.2	0
• Occupational disease rate (Male)	0	0	0	0.7	0.5	0	0.2	0.2	0
• Occupational disease rate (Female)	0	0	0	1.0	1.1	0	0.3	0.3	0
Fatalities	0	0	0	0	0	0	0	0	0

Footnotes:

¹ Based on average monthly salary of regular employees.

² Based on average annual bonus of regular employees.

³ New indicator tracked from FY2019.

⁴ Optus training hours for FY2019 included user testing of certain e-learning modules.

⁵ Workplace health and safety metrics are based on the International Labour Organization (ILO) definitions, subject to country definition of lost work shifts e.g. Optus excludes weekends from medical leave when calculating these rates.

⁶ Based on ILO definition, this excluded time lost as a result of permanent incapacity for work. A male employee was caught in an accident involving several vehicles in FY2018, which resulted in a prolonged medical leave of absence of more than 200 days as of end-FY2019.

05 Community

The Most Connected Communities

The Singtel Group is committed to being a responsible corporate citizen in all the markets where we operate, driving positive and sustainable change for our communities.

Figure 1:
Singtel Group's Strategic Community Investment Framework



OUR APPROACH

Investing in our community is an integral part of our sustainability strategy. Our decisions are guided by our strategic community investment framework (see Figure 1).

The Singtel Group aims to play a significant role in enabling the progress, development and inclusion of vulnerable segments in the society. Through our key partnerships, programmes and staff engagement initiatives, we combine our collective resources and leverage our skills and core competencies to make a positive and sustainable change to communities in need.

Our community strategy contributes towards the various UN SDGs: 3, 4, 8, 9, 10 and 11.

Our community programmes and approach are also aligned with the National Council of Social Service (NCSS) Strategic Thrusts 2017-2021 (see Figure 2). We are one of the few private sector representatives on the NCSS strategic review committee, as we are recognised for our efforts to engage the sector strategically and in a holistic manner.

Singtel Group's Community Investment*

	Singtel	Optus	Singtel Group
FY2019		S\$11.68m	A\$8.72m
FY2018	S\$7.52m	A\$9.43m	
			S\$20.31 million
			S\$17.41 million

* Our community investment figure, which includes direct financial support, in-kind charitable sponsorships and staff volunteering hours, has been verified by the London Benchmarking Group (LBG).

Figure 2:
Singtel Supports NCSS' Social Service Sector Strategic Thrusts 2017-2021

 Empowered individuals, their families and communities	 Effective social purpose entities that deliver quality, innovative and sustainable solutions	 Caring, collaborative and impactful social service ecosystem
Singtel Programmes, Partnerships and Partner Programmes Supported		
■ Special Needs Education ■ Singtel Enabling Innovation Centre ■ RISE Mentorship and Internship ■ Digital Citizenship Programmes ■ Volunteering Programmes	■ Singtel Future Makers ■ NCSS 4ST Committee ■ Community Chest	■ Singtel Future Makers Partners ■ SG Enable and Singapore Business Network on DisAbility ■ NVPC Company of Good, Fellowship and CoLABs

INCLUSION OF VULNERABLE GROUPS

Singtel Touching Lives Fund (STLF) is our flagship corporate philanthropy programme to support the education of children and youth with special needs in Singapore. We raised S\$3 million in 2018, bringing our total funds raised for STLF to S\$42 million since its inception in 2002 (see Story on page 30).

We also donated S\$5.3 million to non-STLF charitable organisations and contributed over S\$500,000 of in-kind sponsorship of telecommunications and media services to charities, social enterprises and nation-building activities in Singapore during the year.

We conducted 12 workshops for 2,750 senior citizens in Singapore who learnt to use smartphones and social media apps, as well as online safety tips like protecting their online privacy and against scams.

We continue to support the cancer cause given its pervasiveness in society (see Story below). In Australia, we contributed A\$679,500 to Tour de Cure 2018. 21 Optus employees took part in this event as riders and volunteers and visited 15 schools to raise awareness.

We continue to work closely with the Australian Business and Community Network (ABCN), of which we are a founding member, to improve opportunities and outcomes for vulnerable youth in high-needs schools across Australia. For our active participation, Optus was awarded the ABCN 2018 Award for the Most Outstanding Member Company.

In 2018, we ran 36 core ABCN programmes, engaging over 500 Optus staff mentors and volunteers working with about 1,200 students.

CREATING AN IMPACT: OUR TEN-YEAR JOURNEY WITH SINGAPORE CANCER SOCIETY



Minister of Culture, Community and Youth Grace Fu with award recipients and guests at SCS' annual achievement awards ceremony 2018

In 2009, Singtel became a strategic partner of Singapore Cancer Society (SCS), supporting its "Help the Children and Youth Programme" (HCY). We are the title sponsor of the Singtel-Singapore Cancer Society Race Against Cancer and our annual grant of S\$250,000* goes towards helping children and youth whose lives are affected by cancer. These children and youth may be cancer patients or their parents are suffering from cancer.

In the past decade, this programme has received more than S\$2.3 million – from Singtel grants as well as registration fees paid by Singtel employees, their families and friends when they participated in the annual run.

* Annual grant of S\$200,000 in 2009–2013

962 children and youth have since benefitted from the SCS HCY programme.

The one-on-one tuition scheme offered under HCY was very popular as it was designed to help those who are academically weak and from financially challenged families. The tuition scheme achieved the desired outcomes of improved grades as well as increased confidence and self-esteem of the students enrolled in the scheme.

The programme also covers school allowance, grants and bursary, achievement awards and family bonding events.



Arthur Lang (right), Singtel's CEO of International Group, raised an additional S\$51,000 for Singapore Cancer Society under CEOs Against Cancer

Community

The Most Connected Communities

CREATING AN IMPACT: MAKING A DIFFERENCE TO CHILDREN WITH SPECIAL NEEDS



Singtel Touching Lives Fund (STLF) is the company's flagship philanthropy programme. When it started in 2002, the programme supported vulnerable children and youth in the community. We sharpened our focus and concentrated on education for children with special needs. Our six beneficiary schools are: APSN Chaoyang School, APSN Tanglin School, APSN Delta Senior School, Cerebral Palsy Alliance Singapore School, Eden School and MINDS Lee Kong Chian Gardens School.

Singtel engages our employees, business partners, customers



Students with special needs enjoying themselves at our Singtel Carnival.

and members of the public through various activities to raise funds for the schools. Fundraising costs of these activities are underwritten by Singtel so that every dollar raised goes to the beneficiary schools. Together with a top-up donation from the company, a total of S\$3 million was raised in 2018. This brings the total funds raised in the past 17 years to more than S\$42 million.

The six schools served about 1,600 students in 2018. The schools offer each student a customised curriculum based on their abilities and needs, with the aim of maximising their potential towards independent living and integration into the community. At the end of the curriculum year, more than 170 students achieved the outcomes listed in the table below.

PATHWAYS OF STUDENTS OF SPECIAL EDUCATION PROGRAMMES IN 2018	NUMBER OF STUDENTS
Open Employment - in a wide range of industries e.g. retail and hospitality	67
Supported Employment - similar to open employment except that clients receive additional support such as having a job coach during the employment period	22
Sheltered Employment - the work focuses on tasks where the processes are simpler and can be broken down into specific steps	55
Internship - part of the School-to-Work (S2W) Transition Programme	3
Vocational Training and Post-Secondary Education e.g. Institute of Technical Education and Polytechnics	9
Day Activity Centres - the clients receive further skills training to maximise their independence for daily living under supervision in a centre	20



ENGAGING OUR PEOPLE

The way we engage the community and involve our people through general and skilled volunteering is a key driver of our staff engagement. Our annual staff engagement surveys consistently show that what we do in the community and for the environment is one of the top three drivers of staff engagement.

We encourage our people to volunteer on an individual or team basis. We believe that active employee volunteerism not only helps our communities but also contributes to the holistic development of our people in terms of empathy, perspective and character building. Besides giving our employees paid volunteer leave, we encourage business units to adopt Volunteering, our concept of teambuilding with a volunteering element to involve the vulnerable segment of the community.

Over the years, we have also increased skilled volunteering opportunities for our people in areas such as our Future Makers social innovation programmes, digital citizenship, ABCN and Better Together overseas volunteering programme.



Singtel and Optus volunteers interacting with local students

Staff Volunteering Hours

Singtel		Optus		Singtel Group
FY2019	13,503 hours		13,206 hours	26,709 hours
FY2018	15,500 hours		12,128 hours	27,628 hours

SINGTEL CARNIVAL 2018

The annual Singtel Carnival is a mass volunteering platform for our staff. It is Singapore's largest carnival designed and planned exclusively for children with special needs. In its sixth year, Singtel Carnival 2018 was organised by 1,700 staff volunteers and attended by more than 1,400 students with special needs from 14 Special Education schools. Themed 'Carnival in Space', the event was graced by the President of the Republic of Singapore.



BETTER TOGETHER 2018

The Singtel Group has been extending our volunteering outreach to support communities in countries where our associates operate. Better Together 2018 was the eighth year of our annual overseas volunteering programme which saw three expeditions.

Our skilled volunteering expedition to Thailand had 32 volunteers from Singtel, Optus, AIS and Globe who mentored Thai undergraduates and high school students from the Good Kids Great Hearts (GKGH) programme to help them improve their confidence and competence in conversational English.

Better Together in the Philippines was in partnership with Globe and saw 47 volunteers from Singtel, Optus, Globe and Optus' call centre partners, Convergys and 24/7, who delivered our Digital Thumbprint programme in two elementary schools in Cagayan de Oro. They also planted trees in Bukidnon together with Hineleban Foundation, Globe's environment partner.

Our regional associate Bharti Airtel and its philanthropy arm Bharti Foundation hosted 23 volunteers from Singtel, Optus and Airtel who carried out classroom sessions in four Satya Bharti schools. These schools are part of Bharti Foundation's flagship rural education initiative, the Satya Bharti School Programme which provides free quality education in rural India.



Community

The Most Connected Communities

Singtel believes firmly in the education and promotion of responsible digital citizenship. We are honoured to have been involved in the development and implementation of the DQ framework right from the beginning. A global standard for digital literacy and skills is important in developing education programmes for people, especially children, so that they have the social, emotional and cognitive abilities to thrive amid the challenges of our digital world.

—
Andrew Buay,
 Vice President of Group Sustainability,
 Singtel

DIGITAL CITIZENSHIP AND ONLINE SAFETY

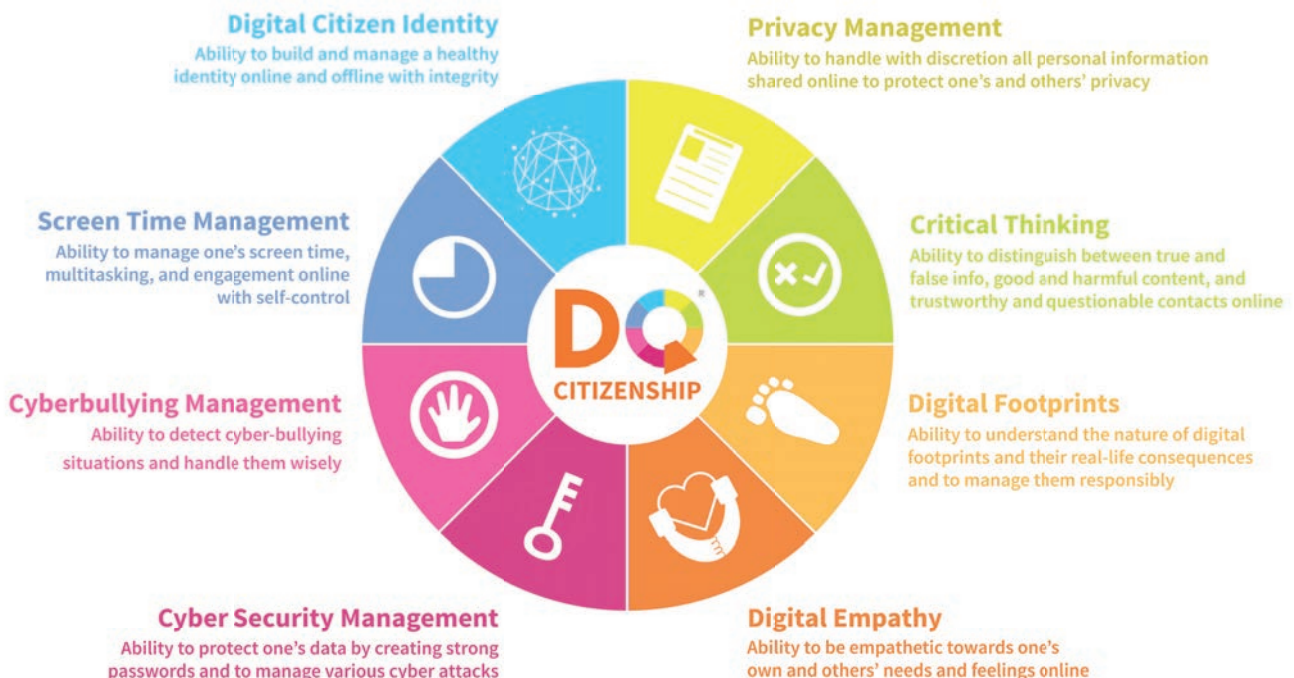
The rise of mobile and technology in this digital age has resulted in better connectivity and convenience for people. However, this has also created unintended consequences as children and youth have become increasingly vulnerable to the associated risks, such as device and gaming addiction, inappropriate online content and cyber bullying.

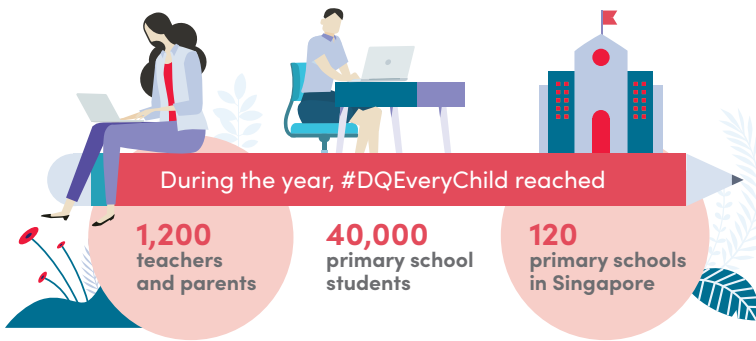
Singtel aims to play a proactive role to mitigate such risks by educating our customers and promoting responsible digital citizenship among vulnerable children and youth. These interventions support our efforts towards the UN Sustainable Development Goal 3 on Good Health and Well-being.

Since 2014, the Singtel Group Digital Thumbprint Programme has created and implemented educational programmes, leveraged our technology and provided resources, as well as partnered leading community organisations to empower and equip responsible digital citizens to thrive in the digital era.

In Singapore, we continued our strategic collaboration with DQ Institute – from helping to fund the #DQEveryChild programme development in 2016 to implementing the programme and bringing it to the primary schools in Singapore. During the year, with Singtel's support, #DQEveryChild reached 120 primary schools, more than 40,000 primary school students and 1,200 teachers and parents in Singapore. In February 2019, our Thai associate AIS also announced its collaboration with DQ Institute to promote digital intelligence or DQ of children in Thailand.

Figure 3:
The Eight Core DQ Competencies





DQ is a comprehensive set of digital competencies required to thrive in the fourth industrial revolution (see Figure 3). Its fundamental competence is digital citizenship which enables individuals to use technology safely and responsibly. It was subsequently identified as a global common framework for digital literacy, skills and readiness by the Coalition for Digital Intelligence, comprising OECD, IEEE Standards Association (IEEE SA) and DQ Institute, and in association with the World Economic Forum. Singtel is also involved as a member of the standardisation working group of IEEE SA.

In Australia, our Digital Thumbprint with Kids Helpline is an early intervention programme delivered free to primary schools. Using Optus technology, we bring Kids Helpline counsellors into classrooms and create a safe environment where students can discuss positive online behaviours and interactions. Over 10,000 primary school students in Australia access this programme each year.

In addition, our Digital Thumbprint programme reaches more than 37,000 high school students in Australia annually. In May 2018, 16 Optus employees were trained to deliver Digital Thumbprint workshops to students, enabling them to contribute directly towards teaching students about positive online presence and behaviour.

After the successful run of our inaugural Digital Smarts Day last year, we hosted two this year, which were attended by 345 primary and high school students. Based on our Digital Thumbprint programme, partners like Kids Helpline and ABCN delivered cyber wellness and digital citizenship education to students at these sessions, facilitated by our trained staff volunteers.

Parents play a critical role in educating and influencing a child's usage of digital technology and media and his online behaviour. During the year, we upgraded notAnoobie, our cyber wellness mobile application for parents launched in mid-2014. Available at www.notAnoobie.online, parents can get up-to-date information on cyber issues like fake news and arm themselves with knowledge on gaming addiction and how to identify cyber bullying, as well as useful digital parenting tips.

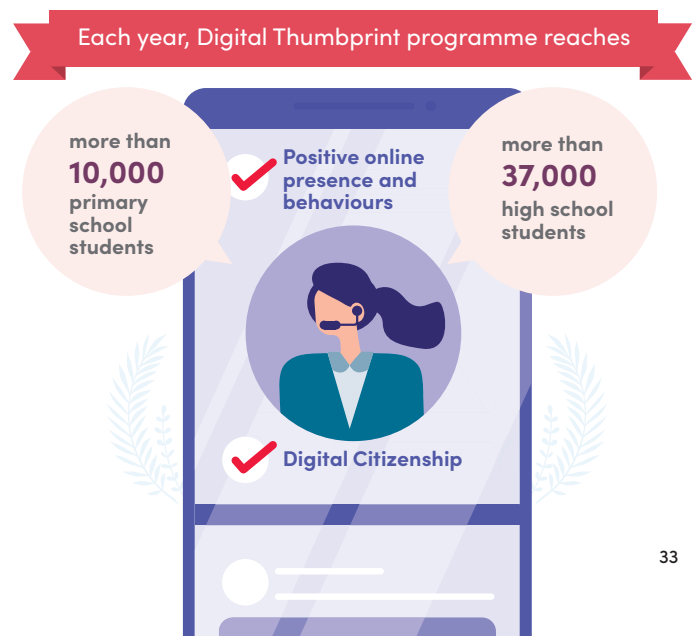
EDUCATION AND EMPLOYABILITY

One key area we focus on is support for youth with disabilities so that they will be ready to join the workforce and lead independent lives. This is a natural extension of our long-term support for special education through STLF.

We play an active role in connecting the broader ecosystem of partners to advance the disability employment agenda in Singapore. Together with other like-minded companies, Singtel became a founding member of the Singapore Business Network on DisAbility (SBNoD) that hopes to advance equitable employment opportunities for persons with disabilities through awareness, shared expertise, network and resources. During the year, Singtel, as the co-chair of SBNoD, continued to support SG Enable's mentorship and internship programmes for tertiary students with disabilities as well as universities career fairs and CV clinics.

Since 2015, we have placed nine interns with various disabilities like vision, hearing and physical impairment and Autism Spectrum Disorder across our organisation. We have also fielded 13 staff mentors from Singtel's middle and top management for the RISE Mentorship programme.

In Australia, we continued our Pathways2Employment Programme as part of our commitment to helping young people build confidence and skills and provided opportunities for them to secure employment with Optus Retail. During the year, we delivered eight sessions across five states, equipping 185 young people with job interview and retail skills. They were supported and coached by 60 Optus Retail employees across Adelaide, Melbourne, Perth, Queensland and Sydney. All students received an Optus Retail Certificate, with 23 of them obtaining employment at our Optus 'yes' stores over Christmas.



06 Marketplace and Customers

Customer Experience

The Singtel Group is committed to being a responsible and innovative leader in the markets where we operate. Our strategy is underpinned by delivering an unparalleled customer experience while embracing responsible business practices across our operations and supply chain.

We strive to deliver a superior customer experience by focusing on the quality of our products and services and customer care, as well as the range of innovative services and value that we offer to our customers.

CUSTOMER SATISFACTION

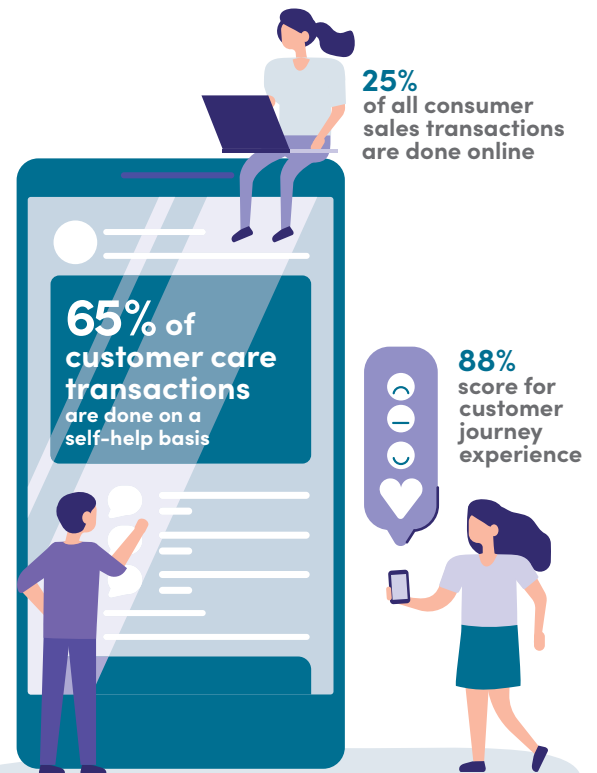
Our customer experience strategy focuses on constantly raising the bar for customer satisfaction. We focus on providing the best value and experience to our customers, and deepening our engagement and relationship with them in this highly competitive market.

Singtel has in the past few years revamped the way we engage and serve customers as they adopt a new digital lifestyle.

We have digitised our sales and call centre operations. Around 25% of all consumer sales transactions are now done online for our customers in Singapore. Over 65% of customer care transactions are done on a self-help basis. By using technologies such as visual interactive voice response as well as virtual and live chat agents, customers no longer have to spend time waiting to talk to call centre agents. Our digitisation efforts have raised staff productivity and generated positive feedback from customers, with customer journey experience scores hitting 88%.

Since its revamp in January 2018, Singtel's flagship store at Comcentre in Singapore has been winning awards. This includes the Best Retail Concept of the Year Award at the Singapore Retailers Association Retail Awards 2018, in recognition of the shop's innovative use of advanced retail technologies.

The new store concept seamlessly combines online and offline customer touchpoints by integrating online and in-store shopping carts. Other innovative features include a smart WiFi-based queue system, 24x7 self-serve kiosks where customers can pick up SIM cards, pay bills or top up prepaid cards as well as automated checkouts linked to e-wallets. There are also customer service robots moving around the shop to assist customers. These features have helped to improve store traffic by 30%.



Our transformation seeks to give customers the best of both worlds by having a digitally augmented store that provides a highly personalised, omni-channel experience, such as interactive touch walls and a digital queue experience.

Yuen Kuan Moon,
CEO of Consumer Singapore
and Chief Digital Officer,
Singtel



Optus CEO Allen Lew with Sammy, a robot concierge and sales promoter developed under a pilot for Optus retail stores



Singtel's award-winning flagship store at Comcentre

Singtel maintained our number one position on the Customer Satisfaction Index of Singapore (CSISG) from 2013 to 2018 despite intense mobile market competition.

At the annual HWM + HardwareZone Tech Awards 2019, we clinched all three Readers' Choice awards for telcos – Best Mobile Service, Best Fibre Broadband and Best Pay TV Service Provider. This is our first time winning all three awards and our tenth consecutive win for Best Mobile and Best Fibre Broadband Service Provider.

In Singapore, for every ten customer complaints via the media, social media, our website and management, we received 29 compliments in FY2019, up from 27 last year.

In Australia, the monthly average for Telecommunications Industry Ombudsman (TIO) complaints for phone and internet users about Optus was 2,736 complaints, down 19% from a year ago.

PRODUCT AND SERVICE QUALITY

The Singtel Group is committed to offering our customers a great network and service experience. We continuously enhance the reach, reliability and quality of our networks in Singapore and Australia.

ENHANCING NETWORK RELIABILITY

Ensuring consistency in network and service performance is critical. We continue to invest in new base stations and towers, upgrade our technologies and increase our user capacity.

Our total capital investment was S\$1.72 billion in FY2019 (Singtel S\$587 million, Optus A\$1.14 billion), with S\$183 million and A\$633 million invested in our mobile networks in Singapore and Australia respectively.

ENSURING QUALITY STANDARDS

In Singapore, Singtel adheres to the Quality of Service standards set by the Info-communications Media Development Authority of Singapore (IMDA) for the services that we offer. The regulator publishes periodic performance reports on the various operators in Singapore covering broadband, mobile and fixed telephone services. We continue to meet or exceed the quality of service standards for service coverage, network availability, network latency, installation and fault repair time. These reports can be found at www.imda.gov.sg.

No fine was imposed on Singtel during the year by IMDA for any breach of telecommunications and broadcast regulations. There was also no legal action regarding anti-competitive behaviour and violation of anti-trust legislation against the Singtel Group.



Marketplace and Customers

Customer Experience

INNOVATION

The Singtel Group innovates continuously and keeps abreast of rapid technology advancement and changing customer needs. We want to bring the latest and the best services and experience to our customers.

In August 2018, Singtel launched FutureNow Innovation Centre (FIC) to help enterprises accelerate their digital transformation to remain competitive and relevant in the digital economy, in line with the Singapore Government's drive to encourage innovation and transformation across industries.

FIC showcases compelling adoption by industries and a suite of state-of-the-art technologies such as cloud, software defined networks, data analytics, artificial intelligence, cyber security, Internet of Things (IoT), robotics and various 5G possibilities. Leveraging these technologies, Singtel and our extensive partner ecosystem aim to provide innovative services and solutions to help enterprises transform their business models, unlock new growth opportunities, redefine customer experiences and improve productivity.



A Singtel employee educating visitors at FutureNow Innovation Centre

The social service sector needs to be open to working with social impact start-ups, and the Singtel Future Makers programme provides a wonderful platform for the diverse but like-minded stakeholders to meet and work together to come up with innovative solutions for the future.

Anita Fam,
President,
National Council of Social Service



Anita Fam speaking to the Singtel Future Makers participants

SINGTEL GROUP FUTURE MAKERS PROGRAMME

We continue to support charities, social entrepreneurs and social enterprises that leverage technological innovation to address social causes and scale their impact in the community. This is achieved through the Singtel Group Future Makers, our social innovation programme which we launched in 2016.

Now in its third year, Future Makers continued to expand its footprint, with our Indonesia and Thailand associates Telkomsel and AIS joining the regional programme with Singtel, Optus and Globe from the Philippines. Future Makers 2018 attracted over 3,000 applicants across the five countries. 48 selected start-ups secured more than S\$1 million in funding and support, after participating in rigorous capacity building and mentorship workshops.

Over four months, the Group's team of in-house subject matter experts and external partners from the social and private sectors volunteered their time and skills to advise our impact start-ups on their technology solutions and business models. As part of the regional finals held in Australia, Future Makers finalists from the five countries attended the Impact Investment Summit Asia Pacific 2018 and received further capacity building at Optus. They also gained valuable insights from impact investors, corporates, foundations, government representatives and the social sector, and explored with them potential opportunities to scale their solutions regionally.

Read our Future Makers Impact Report 2018 [here](#).

Marketplace and Customers

Ethical and Responsible Business Practices

The Singtel Group strives to reduce the negative impact of our products and services. Our responsibility encompasses governance and anti-corruption as well as safety, data privacy and fair communications for our stakeholders in the marketplace.

CUSTOMER HEALTH AND SAFETY

Today, the perceived health risks associated with the emission of Electromagnetic Energy (EME) from mobile devices, base stations and tower infrastructure remain a concern for our customers, the community and regulators. This is despite the lack of conclusive evidence on adverse health effects caused by mobile phone usage.

More information on our efforts to ensure compliance with both local and global standards related to EME is on our [website](#).

In Singapore, we continue to engage the National Environment Agency (NEA) during the year, which conducted nine radiation measurements at locations of concern island-wide. The results showed that our mobile base stations complied with the radio frequency radiation levels and safety guidelines set by International Commission on Non-Ionizing Radiation Protection (ICNIRP). The findings were shared with the stakeholders who raised the concern. We also submitted a monthly report to IMDA on newly commissioned base stations to ensure that their Effective Isotropic Radiated Power or transmission power is within its guidelines.

In Australia, we conduct audits of base stations and undertake predictive EME modelling and testing to ensure compliance at our sites with the Australian standards. We publish the EME reports of all our sites at www.rfnsa.com.au. The Australian Communications and Media Authority received five complaints relating to Optus in 2017-2018 but no breach was found.

CUSTOMER DATA PRIVACY AND PROTECTION

Customer Data Privacy and Protection is the most important topic that emerged from our materiality review and identified by our stakeholders. We conduct our business in compliance with data protection laws – the Personal Data Protection Act (PDPA) in Singapore and the Privacy Act and Telecommunications Act in Australia. These laws cover rules governing the collection, use, disclosure and care of personal data. Singtel's Group Chief Information Officer is our Data Protection Officer and reports to the Board Risk Committee on this matter.

Every year, all employees must go through a mandatory online refresher course on customer data privacy and protection. We continue to educate our employees by issuing comprehensive guidelines and regular e-newsletters to help them understand and comply with the PDPA. These guidelines cover various aspects under three categories – collecting, disclosing and disposing of personal data. Our e-newsletter reminds staff of the importance of customer data and carries case studies of breaches and findings by the Personal Data Protection Commission (PDPC) of Singapore, learnings and preventive actions.

During the year, we recorded 28 incidents in Singapore, nine of which were referred to us by PDPC. These incidents were mainly due to human error, resulting in documents containing personal data being sent to the wrong email or postal addresses. In addition, the service of an employee was terminated as he abused his access to customer information.

In Australia, we proactively probed our complaint online tracker database to check if any complaint should have been directed to our Data Protection Office. This helps us with analytics and to spot systemic issues. From our active search, we picked up 254 customer data related incidents caused mainly by staff error and negligence, and mostly affected individuals. We reported four data breaches cases to the Office of the Australian Information Commissioner. Two cases due to human error resulted in unintentional disclosure of individual customer details. The other two cases involved phishing and process errors which either disclosed contact details to a third party or published contact details of a select group of customers in online and printed directories.

We take a serious view of these incidents and will continue to educate our staff and improve practices and processes to reduce the recurrence of such lapses. Since FY2018, we have made it mandatory for every employee in Singapore and Australia to complete an online privacy training annually. We will continue to implement additional safeguards against mishandling of information by authorised staff and also remind our people to be vigilant when handling customer data.

The relevant authorities did not fine or impose non-monetary sanction against the Singtel Group over these incidents.



Marketplace and Customers

Ethical and Responsible Business Practices

FAIR MARKETING COMMUNICATIONS

We recognise that fair marketing practices and transparency in our communications are critical to build trust and loyalty among our customers. Our marketing code sets out the requirements that Singtel organisations and representatives must follow to ensure that all marketing activities comply with various laws and guidelines such as the Singapore Code of Advertising Practice.

There were no cases of non-compliance with regulations and voluntary codes concerning marketing communications at Singtel in Singapore during the year. We received a customer complaint via the Advertising Standards Authority of Singapore: a customer was incorrectly advised by our hotline officer on the early re-contract fee waiver terms stated in an online advertisement.

In October 2018, ACCC fined Optus A\$10 million for misleading conduct in relation to the Direct Carrier Billing (DCB) service. This relates to third party content, including premium content such as news websites and apps such as games and ringtones. We ceased offering the DCB service from 24 August 2018, other than a limited number of services for one-off content for TV shows, magazines and mobile gaming, all of which require expressed customer agreement to each purchase being charged to the customer's Optus account. We acknowledged that some customers might have inadvertently subscribed to content they did not want or could not easily unsubscribe from. We committed to undertake a comprehensive review of customers affected by this activity and provided refunds where appropriate.

ANTI-CORRUPTION

We continue to manage the Group's exposure to corruption risks by applying and emphasising good corporate governance, business ethics and transparency while applying robust internal controls in business processes as our core approach.

We ensure that the Group's zero tolerance policy towards fraud, corruption and unethical actions is strictly adhered to. Our Group policies on Fraud Investigation and the Whistleblower Programme underpin our fraud risk management framework and processes. The Singtel Group Anti-Bribery and Corruption Policy reinforces our long-standing zero tolerance approach to bribery and corruption of any form that is set out in our Code of Conduct. All Singtel Board members, employees and third parties who represent us such as suppliers, contractors and business partners, must comply with this policy at all times. More information on this topic is on our [website](#).

Every year, all employees must go through mandatory online refresher courses, including Code of Conduct, Fraud awareness and Anti-Bribery and Corruption Policy. For instance, during the year, we engaged the Corrupt Practices Investigation Bureau of Singapore to conduct eight sessions of



Anti-Bribery & Corruption Talk
1.5 hours | All Levels
Complementary | Course Code: 1704002

Course Overview Corruption is receiving, asking for or giving any gratification to induce a person to do a favour with a corrupt intent. Corruption is a serious offence. A person convicted on a corruption offence shall be liable to a fine not exceeding \$100,000/- or to imprisonment for a term not exceeding 5 years, or both, for each count of corruption. Methodology The 1.5 hour talk comprises a presentation, case studies, video and FAQ.	Learning Outcome • Definition of corruption • Singapore's success in keeping corruption under control • Preventive measures • Case studies Target Audience • All Levels How to Register • Click above to select the slot
--	--

Do You Know?
The Prevention of Corruption Act (PCA) is the primary anti-corruption legislation in Singapore, and forms one of the key pillars in Singapore's fight against corruption. Under the PCA, CPIB officers are also empowered to arrest, conduct a premise search or seize evidence without warrant if there is credible information or reasonable suspicion that a corruption offence has been committed.

DO NOT mess with corruption. Know your facts and Stay Safe.



connect grow

Eight anti-bribery and corruption talks were organised for staff in Singapore

anti-bribery and corruption talk as part of staff training. More than 700 employees in Singapore attended.

We received a total of 133 cases via our whistleblower channels during the year (see Figure 1). After investigation, 34 cases were substantiated and 59 cases were not, with the remaining 40 cases under investigation at the end of the year. Three of the substantiated cases took place outside Singapore and Australia. In addition, we closed the 17 matters received in the prior year that were still under investigation as at 31 March 2018, of which eight were substantiated.

Highlights of the 42 substantiated cases:

- 26 cases of employee or sales agent misconduct and inappropriate behaviour involving unethical behaviour, conflict of interest, breach of code of conduct and corruption
- 8 cases of fraud by staff for forging customer documents or submitting fraudulent timesheets, claims or referrals
- 6 cases involved breach of policy and gaps in business processes by employees or our sales agents
- 1 customer service complaint and 1 case related to identity theft in Australia

When these cases came to our attention, independent internal investigations were immediately conducted by our Internal Audit or investigation teams led by our subject matter experts. When an alleged corrupt or other criminal act by an employee was substantiated, the employment of persons of interest was terminated and the matter was reported to the relevant law enforcement authority.

In early 2019, the Australian Parliament passed legislation that requires large organisations to maintain a whistleblower service and to comply with provisions concerning protection of whistleblowers that make certain types of disclosure. We are currently reviewing the Optus hotline and the Singtel Group Whistleblower Policy to ensure that they meet the requirements of the legislation.

During the year, there were no incidents of staff dismissal or disciplinary action nor termination or non-renewal of business partners for corruption. However, in April 2019, we were fined A\$25,000 by the NSW Land and Environment Court for non-disclosure of payments to attend ticketed political fundraising events made in 2014 and 2015, totalling A\$5,400, when submitting planning applications for sites in Thredbo and Perisher. We acknowledged the administrative error and noted that the Court found that the offence arose from carelessness, and it was certainly not intentional, reckless or negligent.

MOST WELL-GOVERNED AND TRANSPARENT COMPANY

Singtel was named the most well-governed and transparent company in Singapore for the fourth consecutive year in the Singapore Governance and Transparency Index 2018 by CPA Australia, NUS Business School's Centre for Governance, Institutions and Organisations, and Singapore Institute of Directors.

The Singapore Governance and Transparency Index (SGTI) assesses companies on board responsibilities, rights of shareholders, engagement of stakeholders, accountability and audit, as well as disclosure and transparency. The index is closely aligned with Singapore's Code of Corporate Governance and G20/OECD Principles of Corporate Governance. Singtel topped a list of more than 600 Singapore-listed companies, Reits and business trusts, with a score of 129 points out of a maximum 143 points.

During the year, we published Optus' inaugural **Tax Transparency Report 2018** which outlines the tax policy, strategy and governance for our Australian operations.

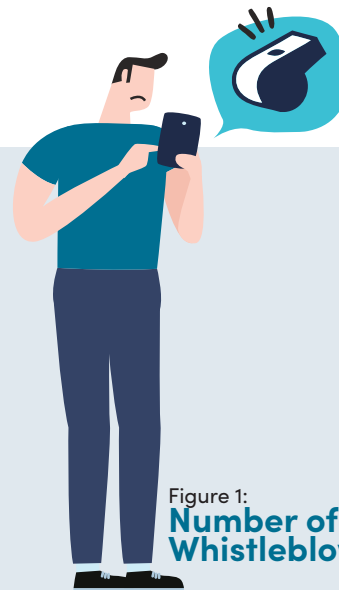


Figure 1:
Number of Cases from Whistleblower Channels

NUMBER OF CASES RECEIVED IN FY2019 VIA WHISTLEBLOWER CHANNELS

	SINGTEL	OPTUS	SINGTEL GROUP
Received	47	86	133
Substantiated	15	19	34
Not Substantiated	19	40	59
Under investigation	13	27	40

NUMBER OF CASES UNDER INVESTIGATION AS AT 31 MARCH 2019

	SINGTEL	OPTUS	SINGTEL GROUP
Opening Balance	9	8	17
Substantiated	5	3	8
Not Substantiated	4	5	9

Number of confirmed incidents in which employees were dismissed or disciplined for corruption:

Singtel: 0 Optus: 0

Number of confirmed incidents when contracts with business partners were terminated or not renewed due to violations related to corruption:

Singtel: 0 Optus: 0

Marketplace and Customers

Ethical and Responsible Business Practices

SUSTAINABLE SUPPLY CHAIN MANAGEMENT

The Singtel Group has an extensive supply chain ranging from mobile and network equipment and infrastructure suppliers to content providers, security and managing agents. Given the complex nature and the wide geographical presence of our supply chain, we believe that collaboration with socially and environmentally conscious suppliers will help us mitigate a significant proportion of our sustainability risks. Results from our earlier Life Cycle Assessment (LCA) and Social Hotspot Analysis are testimony to the need for responsible procurement practices in our business. More details are on our [website](#).

All new suppliers are assessed against ESG criteria through our sustainability questionnaire as part of their on-boarding tender process. This is applied to tenders above \$200,000 across the Singtel Group. 100% of such new suppliers were assessed against the criteria during the year.

We have earlier identified four key groups of suppliers who pose higher risks in our supply chain: Devices, Network equipment, IT hardware and Offshore call centres. In FY2019, Network equipment and Devices surfaced as pressing areas of concern due to the ban on certain Chinese 5G network manufacturers in some major markets.

We placed additional scrutiny on 14 suppliers with elevated risk and gathered responses of their self-assessments to better manage this risk and reduce Singtel Group's exposure.

During the year, we undertook a Security Compliance Assessment and visited 21 offshore facilities to ensure that they were set up according to the agreed regulatory security architecture and controls.

We also updated a three-year sustainable supply chain management roadmap for FY2020-FY2022 (see Figure 2).

Figure 2:

Three-year Sustainable Supply Chain Management Roadmap



The Singtel Group contracted

6,804 suppliers worldwide in FY2019



RESPECTING HUMAN RIGHTS

We respect and support the human rights of individuals regardless of who they are, and where they live. There are risks that we need to address to prevent breaches in our supply chain and tackle the growing global concern on modern slavery.

As a signatory of the UN Global Compact since 2007, we are committed to upholding its ten principles including human and labour rights. The UN Universal Declaration of Human Rights and UN Guiding Principles on Business and Human Rights also guide our approach and policy development to help us better assess, mitigate and combat modern slavery impact in our operations and supply chain.

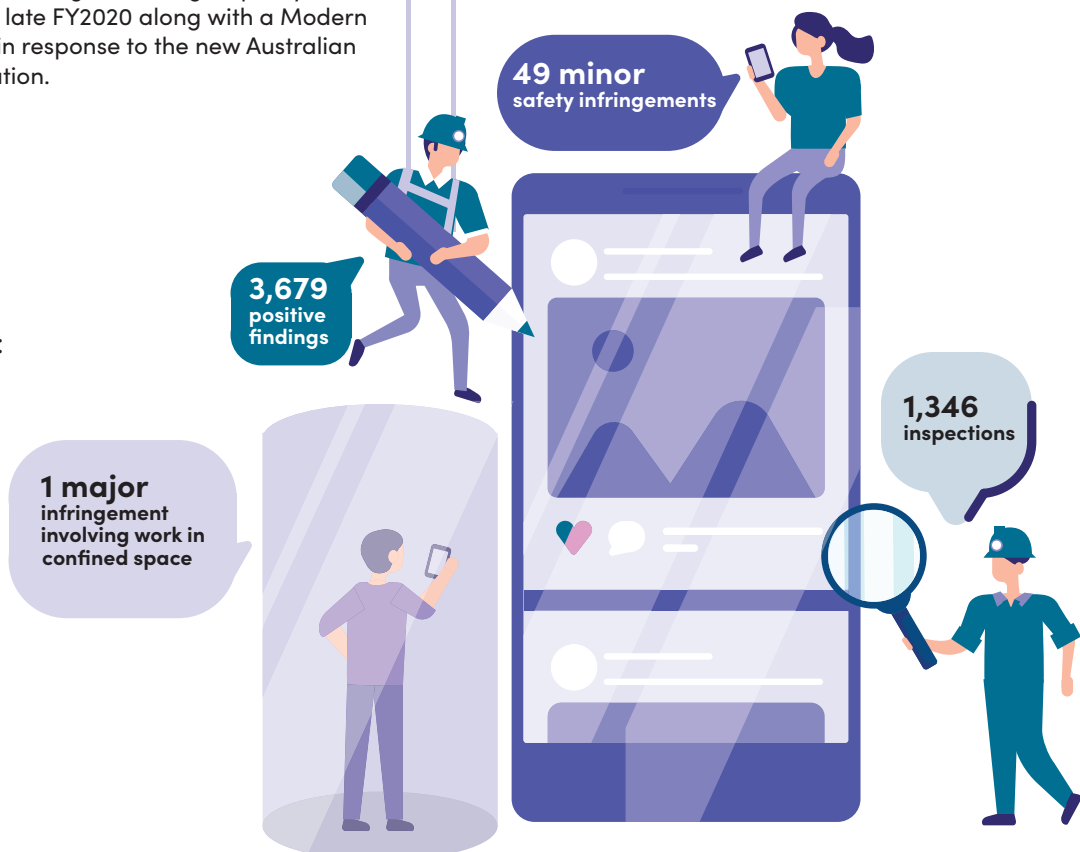
We took steps to ensure that we have robust measures to comply with the new Modern Slavery Act in Australia, which was passed in end-2018, among which is a Modern Slavery Act statement by the company. We examined our Supplier Code of Conduct and Master Service Agreement to ensure that they, especially the sustainability-related clauses, are aligned with the requirements of the Act and our suppliers are expected to conform to the revisions. We also looked into salient risk areas within our supply chain. We are currently developing an overarching human rights policy and plan to launch it by late FY2020 along with a Modern Slavery Statement in response to the new Australian Government legislation.

Enforcement Action:

Warning issued:
0 case

'Show Cause' meeting with contractor:
1 case

Under improvement monitoring:
0 case



SAFETY OF OUR CONTRACTORS

We want to inculcate good Workplace Safety and Health (WSH) practices among all our contractors. A key initiative is the Singtel Safe Contractor Accreditation (SCA) scheme, a set of Singtel's WSH standards for contractors who perform high-risk technical or physical work introduced in April 2016.

During the year, we worked closely with 98 SCA accredited contractors, who went through their first year of surveillance audit to maintain their validity of their accreditation. Those who fail to do so will be disqualified from obtaining future contracts with Singtel (see Figure 3).

In addition, 68 contractors categorised under the high-risk group have all attained the bizSAFE Star status which is the highest achievement under the bizSAFE programme by the WSH Council in Singapore.

The WSH Council recognised Singtel's efforts and commitment to helping our service partners achieve continuous WSH improvements, hence we successfully renewed our bizSAFE Partner certification in April 2018 for the next two years.

Figure 3:
Workplace Safety and Health Inspections

07 GRI Content Index

GENERAL DISCLOSURES

GRI STANDARD	DISCLOSURE	PAGE NUMBER
GRI 101: Foundation 2016		Singtel Group Sustainability Report 2019
GRI 102: General disclosures 2016	Organisational Profile	
	102-1 Name of the organisation	About this Report and Contents
	102-2 Activities, brands, products, and services	Annual Report
	102-3 Location of headquarters	About this Report and Contents
	102-4 Location of operations	About this Report and Contents
	102-5 Ownership and legal form	About this Report and Contents
	102-6 Markets served	Annual Report
	102-7 Scale of the organisation	20, Annual Report
	102-8 Information on employees and other workers	26
	102-9 Supply chain	40, Website
	102-10 Significant changes to the organisation and its supply chain	About this Report and Contents
	102-11 Precautionary Principle or approach	10-11, Website
	102-12 External initiatives	8-9, 11-13, 20, 28, 37-38, 41
	102-13 Membership of associations	12, 16-18, 23, 29, 33
	Strategy	
	102-14 Statement from senior decision-maker	2-3
	Ethics and integrity	
	102-16 Values, principles, standards, and norms of behaviour	Website
	Governance	
	102-18 Governance structure	4, Website
	Stakeholder engagement	
	102-40 List of stakeholder groups	Website
	102-41 Collective bargaining agreements	20
	102-42 Identifying and selecting stakeholders	5, Website
	102-43 Approach to stakeholder engagement	5, Website
	102-44 Key topics and concerns raised	5, Website

GENERAL DISCLOSURES

GRI STANDARD	DISCLOSURE	PAGE NUMBER
	Reporting practice	
	102-45 Entities included in the consolidated financial statements	Annual Report
	102-46 Defining report content and topic Boundaries	5, About this Report and Contents
	102-47 List of material topics	5
	102-48 Restatements of information	About this Report and Contents
	102-49 Changes in reporting	About this Report and Contents
	102-50 Reporting period	About this Report and Contents
	102-51 Date of most recent report	About this Report and Contents
	102-52 Reporting cycle	About this Report and Contents
	102-53 Contact point for questions regarding the report	About this Report and Contents
	102-54 Claims of reporting in accordance with the GRI Standards	About this Report and Contents
	102-55 GRI content index	Website
	102-56 External assurance	About this Report and Contents, Website

MATERIAL TOPICS

GRI STANDARD	DISCLOSURE	PAGE NUMBER	LEVEL OF EXTERNAL ASSURANCE
	Inclusion of vulnerable groups		
GRI 103: Management approach 2016	103-1 Explanation of the material topic and its boundary	28, Website	
	103-2 The management approach and its components	29-31	
	103-3 Evaluation of the management approach	29-31	
GRI 201: Economic performance 2016	201-1 Direct economic value generated and distributed	28, Annual Report	
	Innovation		
GRI 103: Management approach 2016	103-1 Explanation of the material topic and its boundary	36, Website	
	103-2 The management approach and its components	36	
	103-3 Evaluation of the management approach	36	
GRI 203: Indirect economic impacts 2016	203-1 Infrastructure investments and services supported	35	
	203-2 Significant indirect economic impacts	36	

GRI Content Index

MATERIAL TOPICS

GRI STANDARD	DISCLOSURE	PAGE NUMBER	LEVEL OF EXTERNAL ASSURANCE
Anti-corruption			
GRI 103: Management approach 2016	103-1	Explanation of the material topic and its boundary	38, Website
	103-2	The management approach and its components	38-39
	103-3	Evaluation of the management approach	38-39
GRI 205: Anti-corruption 2016	205-3	Confirmed incidents of corruption and actions taken	38-39 Singtel
Employee health and safety			
GRI 103: Management approach 2016	103-1	Explanation of the material topic and its boundary	25, Website
	103-2	The management approach and its components	25, 41
	103-3	Evaluation of the management approach	25, 41
GRI 403: Occupational health and safety 2018	403-1	Occupational health and safety management system	25, 41
	403-5	Worker training on occupational health and safety	25, 41
	403-6	Promotion of worker health	25, Website
	403-9	Work-related injuries	25, 27 Singtel Group
	403-10	Work-related ill health	25, 27 Singtel Group
Talent attraction and retention			
GRI 103: Management approach 2016	103-1	Explanation of the material topic and its boundary	24, Website
	103-2	The management approach and its components	24
	103-3	Evaluation of the management approach	24
GRI 401: Employment 2016	401-1	New employee hires and employee turnover	22-23, 26-27 Singtel
Training and education			
GRI 103: Management approach 2016	103-1	Explanation of the material topic and its boundary	24, Website
	103-2	The management approach and its components	24
	103-3	Evaluation of the management approach	24
GRI 404: Training and education 2016	404-1	Average hours of training per year per employee	27 Singtel Group
	404-2	Programs for upgrading employee skills and transition assistance programs	24
	404-3	Percentage of employees receiving regular performance and career development reviews	24 Singtel

MATERIAL TOPICS

GRI STANDARD	DISCLOSURE	PAGE NUMBER	LEVEL OF EXTERNAL ASSURANCE
Diversity and equal opportunity			
GRI 103: Management approach 2016	103-1 Explanation of the material topic and its boundary	22, Website	
	103-2 The management approach and its components	22-23	
	103-3 Evaluation of the management approach	22-23	
GRI 405: Diversity and equal opportunity 2016	405-2 Ratio of basic salary and remuneration of women to men	26	
Digital citizenship and online safety			
GRI 103: Management approach 2016	103-1 Explanation of the material topic and its boundary	32, Website	
	103-2 The management approach and its components	32-33	
	103-3 Evaluation of the management approach	32-33	
GRI 413: Local communities 2016	413-2 Operations with significant actual and potential negative impacts on local communities	32-33	
Supply chain management			
GRI 103: Management approach 2016	103-1 Explanation of the material topic and its boundary	40, Website	
	103-2 The management approach and its components	40-41	
	103-3 Evaluation of the management approach	40-41	
GRI 308: Supplier environmental assessment 2016	308-1 New suppliers that were screened using environmental criteria	40	Singtel Group
GRI 414: Supplier social assessment 2016	414-1 New suppliers that were screened using social criteria	40	Singtel Group
Customer health and safety			
GRI 103: Management approach 2016	103-1 Explanation of the material topic and its boundary	37, Website	
	103-2 The management approach and its components	41	
	103-3 Evaluation of the management approach	37	
GRI 416: Supplier social assessment 2016	416-2 Incidents of non-compliance concerning the health and safety impacts of products and services	37	Singtel
Fair marketing communications			
GRI 103: Management approach 2016	103-1 Explanation of the material topic and its boundary	38, Website	
	103-2 The management approach and its components	38	
	103-3 Evaluation of the management approach	38	
GRI 417: Marketing and labeling 2016	417-3 Incidents of non-compliance concerning marketing communications	38	Singtel

GRI Content Index

MATERIAL TOPICS

GRI STANDARD	DISCLOSURE	PAGE NUMBER	LEVEL OF EXTERNAL ASSURANCE
Customer data privacy and protection			
GRI 103: Management approach 2016	103-1	Explanation of the material topic and its boundary	37, Website
	103-2	The management approach and its components	37
	103-3	Evaluation of the management approach	37
GRI 418: Customer privacy 2016	418-1	Substantiated complaints concerning breaches of customer privacy and losses of customer data	37 Singtel
Product and service quality			
GRI 103: Management approach 2016	103-1	Explanation of the material topic and its boundary	35, Website
	103-2	The management approach and its components	35
	103-3	Evaluation of the management approach	35
GRI 419: Socioeconomic compliance 2016	419-1	Non-compliance with laws and regulations in the social and economic area	35 Singtel
Climate change and carbon			
GRI 103: Management approach 2016	103-1	Explanation of the material topic and its boundary	10, Website
	103-2	The management approach and its components	10-16
	103-3	Evaluation of the management approach	10-16
GRI 302: Energy 2016	302-1	Energy consumption within the organisation	19 Singtel Group
	302-3	Energy intensity	19 Singtel Group
	302-4	Reduction of energy consumption	15 Singtel
GRI 305: Emissions 2016	305-1	Direct (Scope 1) GHG emissions	19 Singtel Group
	305-2	Energy indirect (Scope 2) GHG emissions	19 Singtel Group
	305-3	Other indirect (Scope 3) GHG emissions	19 Singtel Group
	305-4	GHG emissions intensity	19 Singtel Group
	305-5	Reduction of GHG emissions	15 Singtel

MATERIAL TOPICS

GRI STANDARD	DISCLOSURE		PAGE NUMBER	LEVEL OF EXTERNAL ASSURANCE
	Waste management			
GRI 103: Management approach 2016	103-1	Explanation of the material topic and its boundary	17, Website	
	103-2	The management approach and its components	17-18	
	103-3	Evaluation of the management approach	17-18	
GRI 306: Effluents and waste 2016	306-2	Waste by type and disposal method	19	Singtel
	Customer satisfaction			
GRI 103: Management approach 2016	103-1	Explanation of the material topic and its boundary	34, Website	
	103-2	The management approach and its components	34-35	
	103-3	Evaluation of the management approach	34-35	
		Customer satisfaction score	34-35	

NON-MATERIAL TOPICS

GRI STANDARD	DISCLOSURE	PAGE NUMBER	LEVEL OF EXTERNAL ASSURANCE
Water			
GRI 303: Water and Effluents 2018	303-3 Water withdrawal	19	Singtel

08 UN Global Compact Principles

PRINCIPLE	DESCRIPTION	PAGE REFERENCE
Human Rights		
Principle 1	Businesses should support and respect the protection of internationally proclaimed human rights; and	20, 41
Principle 2	make sure that they are not complicit in human rights abuses.	20, 41
Labour		
Principle 3	Businesses should uphold the freedom of association and the effective recognition of the right to collective bargaining;	20
Principle 4	the elimination of all forms of forced and compulsory labour;	20, 41
Principle 5	the effective abolition of child labour; and	20, 41
Principle 6	the elimination of discrimination in respect of employment and occupation.	22-23
Environment		
Principle 7	Businesses should support a precautionary approach to environmental challenges;	10-11, Website
Principle 8	undertake initiatives to promote greater environmental responsibility; and	10-19
Principle 9	encourage the development and diffusion of environmentally friendly technologies.	15
Anti-Corruption		
Principle 10	Businesses should work against corruption in all its forms, including extortion and bribery.	38-39

09 Independent Limited Assurance Statement

INDEPENDENT LIMITED ASSURANCE STATEMENT IN CONNECTION WITH THE SUBJECT MATTERS INCLUDED IN THE SUSTAINABILITY REPORT OF SINGAPORE TELECOMMUNICATIONS LIMITED ("SINGTEL GROUP")

We have performed a limited assurance engagement on the Subject Matters set out in the *Subject Matters* section below. These Subject Matters are included in the attached Sustainability Report of Singapore Telecommunications Limited ("Singtel") and Singtel Optus Pty Ltd ("Optus") (Collectively referred to as "Singtel Group") for the financial year ended 31 March 2019 ("the Sustainability Report").



SUBJECT MATTERS

Our limited assurance engagement covers the following Subject Matters:

- * Pertains to only Singtel's Sustainability Performance Data
- ** Pertains to Singtel Group's Sustainability Performance Data

MATERIAL ISSUES	GRI TOPIC-SPECIFIC DISCLOSURE	"SHALL" REQUIREMENTS UNDER EACH DISCLOSURE
Corruption	GRI 205-3*	Confirmed incidents of corruption and actions taken a. Total number and nature of confirmed incidents of corruption. b. Total number of confirmed incidents in which employees were dismissed or disciplined for corruption. c. Total number of confirmed incidents when contracts with business partners were terminated or not renewed due to violations related to corruption. d. Public legal cases regarding corruption brought against the organisation or its employees during the reporting period and the outcomes of such cases.
Climate change and energy management	GRI 302-1**	Energy consumption within the organisation a. Total fuel consumption within the organisation from non-renewable sources, in joules or multiples, and including fuel types used. b. Total fuel consumption within the organisation from renewable sources, in joules or multiples, and including fuel types used. c. In joules, watt-hours or multiples, the total: i. Electricity consumption ii. Heating consumption iii. Cooling consumption iv. Steam consumption d. In joules, watt-hours or multiples, the total: i. Electricity sold ii. Heating sold iii. Cooling sold iv. Steam sold 1. Total energy consumption within the organisation, in joules or multiples. 2. Standards, methodologies, assumptions, and/or calculation tools used. 3. Source of the conversion factors used.

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MATERIAL ISSUES	GRI TOPIC-SPECIFIC DISCLOSURE	"SHALL" REQUIREMENTS UNDER EACH DISCLOSURE
		2.1 When compiling the information specified in Disclosure 302-1, the reporting organisation shall: 2.1.1 avoid the double-counting of fuel consumption, when reporting self-generated energy consumption. If the organisation generates electricity from a non-renewable or renewable fuel source and then consumes the generated electricity, the energy consumption shall be counted once under fuel consumption; 2.1.2 report fuel consumption separately for non-renewable and renewable fuel sources; 2.1.3 only report energy consumed by entities owned or controlled by the organisation; 2.1.4 calculate the total energy consumption within the organisation in joules or multiples using the following formula: Total energy consumption within the organisation = Non-renewable fuel consumed + Renewable fuel consumed + Electricity, heating, cooling, and steam purchased for consumption + Self-generated electricity, heating, cooling, and steam, which are not consumed (see clause 2.1.1) – Electricity, heating, cooling, and steam sold:
GRI 302-3**	Energy intensity	a. Energy intensity ratio for the organisation. b. Organisation-specific metric (the denominator) chosen to calculate the ratio. c. Types of energy included in the intensity ratio; whether fuel, electricity, heating, cooling, steam, or all. d. Whether the ratio uses energy consumption within the organisation, outside of it, or both. 2.5 When compiling the information specified in Disclosure 302-3, the reporting organisation shall: 2.5.1 calculate the ratio by dividing the absolute energy consumption (the numerator) by the organisation-specific metric (the denominator); 2.5.2 if reporting an intensity ratio both for the energy consumed within the organisation and outside of it, report these intensity ratios separately.
GRI 302-4*	Reduction of energy consumption	a. Amount of reductions in energy consumption achieved # as a direct result of conservation and efficiency initiatives, in joules or multiples. #: reported, by Singtel, as estimated annualised energy savings and emissions avoidance b. Types of energy included in the reductions; whether fuel, electricity, heating, cooling, steam, or all. c. Basis for calculating reductions in energy consumption, such as base year or baseline, including the rationale for choosing it. d. Standards, methodologies, assumptions, and/or calculation tools used. 2.7 When compiling the information specified in Disclosure 302-4, the reporting organisation shall: 2.7.1 exclude reductions resulting from reduced production capacity or outsourcing; 2.7.2 describe whether energy reduction is estimated, modelled, or sourced from direct measurements. If estimation or modelling is used, the organisation shall disclose the methods used.

MATERIAL ISSUES	GRI TOPIC-SPECIFIC DISCLOSURE	"SHALL" REQUIREMENTS UNDER EACH DISCLOSURE
GRI 303-3*	Water withdrawal	a. Total water withdrawal from all areas in megalitres, and a breakdown of this total by the following sources, if applicable: i. Surface water; ii. Groundwater; iii. Seawater; iv. Produced water; v. Third-party water. b. Total water withdrawal from all areas with water stress in megalitres, and a breakdown of this total by the following sources, if applicable: i. Surface water; ii. Groundwater; iii. Seawater; iv. Produced water; vi. Third-party water, and a breakdown of this total by the withdrawal sources listed in i-iv. d. Any contextual information necessary to understand how the data have been compiled, such as any standards, methodologies, and assumptions used. 2.1 When compiling the information specified in Disclosure 303-3, the reporting organisation shall use publicly available and credible tools and methodologies for assessing water stress in an area.
GRI 305-1**	Direct (Scope 1) GHG emissions	a. Gross direct (Scope 1) GHG emissions in metric tons of CO₂ equivalent. b. Gases included in the calculation; whether CO₂, CH₄, N₂O, HFCs, PFCs, SF₆, NF₃, or all. c. Biogenic CO₂ emissions in metric tons of CO₂ equivalent. d. Base year for the calculation, if applicable, including: v. the rationale for choosing it; vi. emissions in the base year; vii. the context for any significant changes in emissions that triggered recalculations of base year emissions. e. Source of the emission factors and the global warming potential (GWP) rates used, or a reference to the GWP source. f. Consolidation approach for emissions; whether equity share, financial control, or operational control. g. Standards, methodologies, assumptions, and/or calculation tools used. 2.1 When compiling the information specified in Disclosure 305-1, the reporting organisation shall: 2.1.1 exclude any GHG trades from the calculation of gross direct (Scope 1) GHG emissions; 2.1.2 report biogenic emissions of CO₂ from the combustion or biodegradation of biomass separately from the gross direct (Scope 1) GHG emissions. Exclude biogenic emissions of other types of GHG (such as CH₄ and N₂O), and biogenic emissions of CO₂ that occur in the life cycle of biomass other than from combustion or biodegradation (such as GHG emissions from processing or transporting biomass).

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MATERIAL ISSUES	GRI TOPIC-SPECIFIC DISCLOSURE	"SHALL" REQUIREMENTS UNDER EACH DISCLOSURE
	GRI 305-2** Energy indirect (Scope 2) GHG emissions	a. Gross location-based energy indirect (Scope 2) GHG emissions in metric tons of CO₂ equivalent. b. If applicable, gross market-based energy indirect (Scope 2) GHG emissions in metric tons of CO₂ equivalent. c. If available, the gases included in the calculation; whether CO₂, CH₄, N₂O, HFCs, PFCs, SF₆, NF₃, or all. d. Base year for the calculation, if applicable, including: i. the rationale for choosing it; ii. emissions in the base year; iii. the context for any significant changes in emissions that triggered recalculations of base year emissions. e. Source of the emission factors and the global warming potential (GWP) rates used, or a reference to the GWP source. f. Consolidation approach for emissions; whether equity share, financial control, or operational control. g. Standards, methodologies, assumptions, and/or calculation tools used. 2.3 When compiling the information specified in Disclosure 305-2, the reporting organisation shall: 2.3.1 exclude any GHG trades from the calculation of gross energy indirect (Scope 2) GHG emissions; 2.3.2 exclude other indirect (Scope 3) GHG emissions that are disclosed as specified in Disclosure 305-3; 2.3.3 account and report energy indirect (Scope 2) GHG emissions based on the location-based method, if it has operations in markets without product or supplier-specific data; 2.3.4 account and report energy indirect (Scope 2) GHG emissions based on both the location-based and market-based methods, if it has any operations in markets providing product or supplier-specific data in the form of contractual instruments.
	GRI 305-3** Other indirect (Scope 3) GHG emissions	a. Gross other indirect (Scope 3) GHG emissions in metric tons of CO₂ equivalent. b. If available, the gases included in the calculation; whether CO₂, CH₄, N₂O, HFCs, PFCs, SF₆, NF₃, or all. c. Biogenic CO₂ emissions in metric tons of CO₂ equivalent. d. Other indirect (Scope 3) GHG emissions categories and activities included in the calculation. e. Base year for the calculation, if applicable, including: i. the rationale for choosing it; ii. emissions in the base year; iii. the context for any significant changes in emissions that triggered recalculations of base year emissions. f. Source of the emission factors and the global warming potential (GWP) rates used, or a reference to the GWP source. g. Standards, methodologies, assumptions, and/or calculation tools used.

MATERIAL ISSUES	GRI TOPIC-SPECIFIC DISCLOSURE	"SHALL" REQUIREMENTS UNDER EACH DISCLOSURE
		2.5 When compiling the information specified in Disclosure 305-3, the reporting organisation shall: 2.5.1 exclude any GHG trades from the calculation of gross other indirect (Scope 3) GHG emissions; 2.5.2 exclude energy indirect (Scope 2) GHG emissions from this disclosure. Energy indirect (Scope 2) GHG emissions are disclosed as specified in Disclosure 305-2; 2.5.3 report biogenic emissions of CO₂ from the combustion or biodegradation of biomass that occur in its value chain separately from the gross other indirect (Scope 3) GHG emissions. Exclude biogenic emissions of other types of GHG (such as CH₄ and N₂O), and biogenic emissions of CO₂ that occur in the life cycle of biomass other than from combustion or biodegradation (such as GHG emissions from processing or transporting biomass).
	GRI 305-4**	GHG emissions intensity a. GHG emissions intensity ratio for the organisation. b. Organisation-specific metric (the denominator) chosen to calculate the ratio. c. Types of GHG emissions included in the intensity ratio; whether direct (Scope 1), energy indirect (Scope 2), and/or other indirect (Scope 3). d. Gases included in the calculation; whether CO₂, CH₄, N₂O, HFCs, PFCs, SF₆, NF₃, or all. 2.7 When compiling the information specified in Disclosure 305-4, the reporting organisation shall: 2.7.1 calculate the ratio by dividing the absolute GHG emissions (the numerator) by the organisation-specific metric (the denominator); 2.7.2 if reporting an intensity ratio for other indirect (Scope 3) GHG emissions, report this intensity ratio separately from the intensity ratios for direct (Scope 1) and energy indirect (Scope 2) emissions.
	GRI 305-5*	Reduction of GHG emissions a. GHG emissions reduced as a direct result of reduction initiatives, in metric tons of CO₂ equivalent. b. Gases included in the calculation; whether CO₂, CH₄, N₂O, HFCs, PFCs, SF₆, NF₃, or all. c. Base year or baseline, including the rationale for choosing it. d. Scopes in which reductions took place; whether direct (Scope 1), energy indirect (Scope 2), and/or other indirect (Scope 3). e. Standards, methodologies, assumptions, and/or calculation tools used. 2.9 When compiling the information specified in Disclosure 305-5, the reporting organisation shall: 2.9.1 exclude reductions resulting from reduced production capacity or outsourcing; 2.9.2 use the inventory or project method to account for reductions; 2.9.3 calculate an initiative's total reductions of GHG emissions as the sum of its associated primary effects and any significant secondary effects; 2.9.4 if reporting two or more Scope types, report the reductions for each separately; 2.9.5 report reductions from offsets separately.

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MATERIAL ISSUES	GRI TOPIC-SPECIFIC DISCLOSURE	"SHALL" REQUIREMENTS UNDER EACH DISCLOSURE
Waste management	GRI 306-2*	Waste by type and disposal method
		a. Total weight of hazardous waste, with a breakdown by the following disposal methods where applicable: vii. Reuse viii. Recycling ix. Composting x. Recovery, including energy recovery xi. Incineration (mass burn) xii. Deep well injection xiii. Landfill xiv. On-site storage xv. Other (to be specified by the organisation) b. Total weight of non-hazardous waste, with a breakdown by the following disposal methods where applicable: i. Reuse ii. Recycling iii. Composting iv. Recovery, including energy recovery v. Incineration (mass burn) vi. Deep well injection vii. Landfill viii. On-site storage ix. Other (to be specified by the organisation) c. How the waste disposal method has been determined: i. Disposed of directly by the organisation, or otherwise directly confirmed ii. Information provided by the waste disposal contractor iii. Organisational defaults of the waste disposal contractor
		2.3 When compiling the information specified in Disclosure 306-2, the reporting organisation shall: 2.3.1 identify hazardous waste as defined by national legislation at the point of generation; 2.3.2 exclude non-hazardous wastewater from the calculation of non-hazardous waste; 2.3.3 if no weight data are available, estimate the weight using available information on waste density and volume collected, mass balances, or similar information.
Supply chain management	GRI 308-1**	New suppliers that were screened using environmental criteria
	GRI 414-1**	New suppliers that were screened using social criteria
		a. Percentage of new suppliers that were screened using environmental criteria. a. Percentage of new suppliers that were screened using social criteria.

MATERIAL ISSUES	GRI TOPIC-SPECIFIC DISCLOSURE	"SHALL" REQUIREMENTS UNDER EACH DISCLOSURE
Talent attraction and retention; Diversity	GRI 401-1*	New employee hires and employee turnover a. Total number and rate of new employee hires during the reporting period, by age group, gender and region. b. Total number and rate of employee turnover during the reporting period, by age group, gender and region.
Employee health and safety	GRI 403-9**	Work-related injuries a. For all employees: i. The number and rate of fatalities as a result of work-related injury; ii. The number and rate of high-consequence work-related injuries (excluding fatalities); iii. The number and rate of recordable work-related injuries; iv. The man types of work related injury; v. The number of hours worked. e. Whether the rates have been calculated based on 200,000 or 1,000,000 hours worked. g. Any contextual information necessary to understand how the data have been compiled, such as any standards, methodologies, and assumption used. 2.1 When compiling the information specified in Disclosure 403-9, the reporting organisation shall: 2.1.1 exclude fatalities in the calculation of the number and rate of high-consequence work-related injuries; 2.1.2 include fatalities as a result of work-related injury in the calculation of the number and rate of recordable work-related injuries; 2.1.3 include injuries as a result of commuting incidents only where the transport has been organised by the organisation; 2.1.4 calculate the rates based on either 200,000 or 1,000,000 hours worked, using the following formulas: Rate of fatalities as a result of work-related injury = (Number of fatalities as a result of work-related injury / Number of hours worked) x [200,000 or 1,000,000] Rate of high-consequence work-related injuries (excluding fatalities) = (Number of high-consequence work-related injuries (excluding fatalities) / Number of hours worked) x [200,000 or 1,000,000] Rate of recordable work-related injuries = (Number of recordable work-related injuries / Number of hours worked) x [200,000 or 1,000,000]

#: excluding cases of permanent incapacitation

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MATERIAL ISSUES	GRI TOPIC-SPECIFIC DISCLOSURE	"SHALL" REQUIREMENTS UNDER EACH DISCLOSURE
	GRI 403-10** Work-related ill health	a. For all employees: i. The number of fatalities as a result of work-related ill health; ii. The number of cases of recordable work-related ill health; iii. The main types of work-related ill health. e. Any contextual information necessary to understand how the data have been compiled, such as any standards, methodologies, and assumption used. 2.3 When compiling the information specified in Disclosure 403-10, the reporting organisation shall include fatalities as a result of work-related ill health in the calculation of the number of cases of recordable work-related ill health.
Training and education	GRI 404-1** Average hours of training per year per employee	a. Average hours of training that the organisation's employees have undertaken during the reporting period, by: i. gender; ii. employee category.
	GRI 404-3* Percentage of employees receiving regular performance and career development reviews	a. Percentage of total employees by gender and by employee category who received a regular performance and career development review during the reporting period.
Customer health and safety	GRI 416-2* Incidents of non-compliance concerning the health and safety	a. Total number of incidents of non-compliance with regulations and/or voluntary codes concerning the health and safety impacts of products and services within the reporting period, by: i. incidents of non-compliance with regulations resulting in a fine or penalty; ii. incidents of non-compliance with regulations resulting in a warning; iii. incidents of non-compliance with voluntary codes. b. If the organisation has not identified any non-compliance with regulations and/or voluntary codes, a brief statement of this fact is sufficient. 2.1 When compiling the information specified in Disclosure 416-2, the reporting organisation shall: 2.1.1 exclude incidents of non-compliance in which the organisation was determined not to be at fault; 2.1.2 exclude incidents of non-compliance related to labelling. Incidents related to labelling are reported in Disclosure 417-2 of GRI 417: Marketing and Labelling; 2.1.3 if applicable, identify any incidents of non-compliance that relate to events in periods prior to the reporting period.

MATERIAL ISSUES	GRI TOPIC-SPECIFIC DISCLOSURE	"SHALL" REQUIREMENTS UNDER EACH DISCLOSURE
Fair marketing communications	GRI 417-3*	Incidents of non-compliance concerning marketing communications a. Total number of incidents of non-compliance with regulations and/or voluntary codes concerning marketing communications, including advertising, promotion, and sponsorship, by: i. incidents of non-compliance with regulations resulting in a fine or penalty; ii. incidents of non-compliance with regulations resulting in a warning; iii. incidents of non-compliance with voluntary codes. b. If the organisation has not identified any non-compliance with regulations and/or voluntary codes, a brief statement of this fact is sufficient. 2.2 When compiling the information specified in Disclosure 417-3, the reporting organisation shall: 2.2.1 exclude incidents of non-compliance in which the organisation was determined not to be at fault; 2.2.2 if applicable, identify any incidents of non-compliance that relate to events in periods prior to the reporting period.
Customer data privacy and protection	GRI 418-1*	Substantiated complaints concerning breaches of customer privacy and losses of customer data a. Total number of substantiated complaints received concerning breaches of customer privacy, categorised by: i. complaints received from outside parties and substantiated by the organisation; ii. complaints from regulatory bodies. b. Total number of identified leaks, thefts, or losses of customer data. c. If the organisation has not identified any substantiated complaints, a brief statement of this fact is sufficient. 2.1 When compiling the information specified in Disclosure 418-1, the reporting organisation shall indicate if a substantial number of these breaches relate to events in preceding years.
Product and service quality	GRI 419-1*	Non-compliance with laws and regulations in the social and economic area a. Significant fines and non-monetary sanctions for non-compliance with laws and/or regulations in the social and economic area in terms of: i. total monetary value of significant fines; ii. total number of non-monetary sanctions; iii. cases brought through dispute resolution mechanisms. b. If the organisation has not identified any non-compliance with laws and/or regulations, a brief statement of this fact is sufficient. c. The context against which significant fines and non-monetary sanctions were incurred.

Note:

Singtel Group sustainability performance data includes sustainability data of Optus which is Singtel's subsidiary in Australia.

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MANAGEMENT'S AND BOARD OF DIRECTORS' RESPONSIBILITY

The Management is responsible for the preparation of the Subject Matters in accordance with the Global Reporting Initiative (GRI) Sustainability Reporting Standards. The Board has ultimate responsibility for the company's sustainability reporting.

The Management is responsible for the collection and presentation of the information and for maintaining adequate records and internal controls that are designed to support the sustainability reporting process. For the purpose of the Sustainability Report 2019, there are no legally prescribed requirements relating to the verification of sustainability reports.

AUDITOR'S INDEPENDENCE AND QUALITY CONTROL

We have complied with the independence and other ethical requirements of the Accounting and Corporate Regulatory Authority (ACRA) *Code of Professional Conduct and Ethics for Public Accountants and Accounting Entities (ACRA Code)*, which is founded on fundamental principles of integrity, objectivity, professional competence and due care, confidentiality and professional behaviour.

Our firm applies Singapore Standards on Quality Control 1 of the Institute of Singapore Chartered Accountants and, accordingly, maintains a comprehensive system of quality control including documented policies and procedures regarding compliance with ethical requirements, professional standards and applicable legal and regulatory requirements.

We have the required competencies and experience to conduct this assurance engagement. Our professionals have both the required assurance skills and experience in the applicable Subject Matters including environmental, social and financial aspects.

AUDITOR'S RESPONSIBILITY

Our responsibility is to form a conclusion on Singtel Group's preparation of the Subject Matters based on our work. We performed our work in accordance with International Standard on Assurance Engagements 3000 (ISAE 3000) (Revised) – *Assurance Engagements other than Audits or Reviews of Historical Financial Information* (the "Standard"). This Standard requires that we plan and perform our work to form the conclusion. The extent of our work performed depends on our professional judgment and our assessment of the engagement risk.

Our review was limited to the information on the select indicators set out within the Report from 01 April 2018 to 31 March 2019 and our responsibility does not include:

- Any work in respect of sustainability information published elsewhere in Singtel Group's annual report, website and other publications,
- Sustainability information prior to 01 April 2018 and subsequent to 31 March 2019, and
- Management's forward looking statements such as targets, plans and intentions.

REPORTING CRITERIA

As a basis for the assurance engagement, we have used the criterion of "Accuracy" as defined by GRI and specific criteria determined by Singtel Group as being relevant for its sustainability performance. We consider these reporting criteria to be relevant and appropriate to review the Report.

ASSURANCE STANDARD USED AND LEVEL OF ASSURANCE

Our limited assurance engagement has been planned and performed in accordance with the ISAE 3000¹ Assurance Engagement Other Than Audits or Reviews of Historical Financial Information.

A limited assurance engagement consists of making enquiries and applying analytical and other review procedures. Our procedures were designed to provide a limited level of assurance and as such do not provide all the evidence that would be required to provide a reasonable level of assurance.

The procedures performed depend on our judgement including the risk of material misstatement of the specific activity data, whether due to fraud or error. While we considered the effectiveness of Management's internal controls when determining the nature and extent of our procedures, our review was not designed to provide assurance on internal controls. We believe that the evidence we have obtained is sufficient and appropriate to provide a basis for our conclusion.

¹ International Federation of Accountants' International Standard on Assurance Engagements for Assurance Engagements Other Than Audits or Reviews of Historical Financial Information (ISAE3000)

WHAT WE DID TO FORM OUR CONCLUSIONS

We designed our procedures in order to state whether anything has come to our attention to suggest that the Subject Matters detailed above has not been reported in accordance with the reporting criteria cited earlier. In order to form our conclusions, we undertook the steps below:

1. Inquiries with Singtel Group's Sustainability team to
 - a. Understand principal business operations,
 - b. Appreciate key sustainability issues and developments,
 - c. Map out information flow for sustainability reporting and the controls on information collation,
 - d. Identify data providers with their responsibilities, and
 - e. Recognise the likelihood of possible manipulation of sustainability data.
2. Conduct visits to Singtel Group's offices.
3. Conduct process walk-through of systems and processes for data aggregation and reporting, with relevant personnel to understand the quality of checks and control mechanisms, assessing and testing the controls in relation to the concerned Subject Matters in the Report.
4. Interviews with employees and management based in Singapore (Group Sustainability, Human Resources, Learning and Development, Rewards, Energy, Utilities, Workplace Safety & Health, Group Internal Audit, Supply Chain, Regulations, Brand Development, Information Technology, Customer Resolution & Competitor Intelligence) and Australia (Group Sustainability, Human Resources, Learning and Development, Energy, Utilities, Workplace Safety & Health) to understand key sustainability issues related to the select indicators and processes for the collection and accurate reporting of performance information.
5. Collect samples through sampling methods and obtain documentation for the sample to verify assumptions, estimations and computations made by management in relation to the concerned Subject Matters in the Report.
6. Conduct general media research on the concerned Subject Matters.
7. Checking that data and statements had been correctly transcribed from corporate systems and/or supporting evidence, into the Report.
8. Obtain investigation reports in relation to the concerned Subject Matters in the Report.
9. Rely on Optus and Singtel's management representation letter for Singtel Group on the concerned Subject Matters in the Report.

OBSERVATIONS AND AREAS FOR IMPROVEMENT

Our observations and areas for improvement will be raised in a separate report to Singtel Group's Board of Directors and Management. These observations and areas for improvement do not affect our conclusion on the aforementioned Subject Matters included in the Sustainability Report.

OTHER MATTERS

Our responsibility in performing our limited assurance activities is to the Management of Singtel Group only and in accordance with the terms of reference agreed with them. We do not accept or assume any responsibility for any other purpose or to any other person or organisation. Any reliance any such third party may place on the Report is entirely at their own risk.

CONCLUSION

Based on the procedures performed and evidence obtained, nothing has come to our attention that causes us to believe that the information in the Report was not presented fairly, and calculated in all material respects in accordance with the reporting criteria detailed above.



Ernst & Young LLP

Signed for Ernst & Young LLP by
Simon Yeo

Partner, Climate Change and Sustainability Services
Singapore, 27 May 2019



Singapore Telecommunications Limited
(CRN:199201624D)
31 Exeter Road, Comcentre
Singapore 239732
T +65 6838 3388
www.singtel.com

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