

Sustainability at Huawei



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Messages from the Management



Liang Hua
Chairman of the Board

“Digital technology is reshaping the world, the economy, and the very nature of productivity. With computing power as a new driver of productivity, technologies like 5G and AI are becoming deeply integrated into all industries, promoting digital and intelligent transformation across the board. At Huawei, we are committed to working closely with our global partners to promote shared success. We will keep innovating together to build a more diversified computing industry and drive greater sustainability. Together, we can build a fully connected, intelligent world.”

——A Message from the Chairman of the Board

“Since the dawn of time, people have always imagined what the future might hold. But with technology, we can actually get there. As a tech company, Huawei will continue innovating with customers and partners to overcome challenges ahead. Together, we will contribute to the achievement of the United Nations Sustainable Development Goals and forge a better life for all.”

——A Message from the Chairman of the CSD Committee



Tao Jingwen
Chairman of the CSD Committee

Wide recognition for Huawei's sustainability efforts



Climate Action
A List
Excellent Environmental Leadership Award
(2022)



European Foundation for Quality Management (EFQM)
Outstanding Achievement for Customer Centricity
(2022)



TECH4ALL DigiTruck project
Outstanding Mobile Contribution to the UN SDGs
(2022)



Huawei Intelligent net-zero carbon campus solution
WSIS Champion
(2022)



Huawei RuralLink Solution
Best Mobile Innovation for Emerging Markets
(2023)



Green Target Network programme
Innovative Breakthrough in Mobile Technology Award and Outstanding Award
(2023)

600+ schools have benefited from Huawei's TECH4ALL programs

46 protected areas worldwide have benefited from Huawei technology

270+ social contribution programs

400 mn+ people covered by inclusive financial services

2.4 mn+ digital professionals cultivated

**By the end of Dec 2022*

Huawei focuses on four sustainability strategies to create social value

Tech for Good: Sustainable Social Development through ICT

Digital Inclusion

- Driving Equity and Quality in Education
- Conserving Nature
- Enabling Inclusive Health and Well-being
- Driving Inclusive Digital Development



Security & Trustworthiness

- Cyber Security and Privacy Protection
- Openness and Transparency
- Supporting Stable Communications
- Business Continuity



Environmental Protection

- Advancing Energy Conservation and Emissions Reduction
- Promoting Renewable Energy
- Contributing to a Circular Economy



Healthy & Harmonious Ecosystem

- Caring for Employees
- Business Ethics
- Supply Chain Responsibilities
- Community Responsibilities



Sustainability Management



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Actions speak louder than words: Creating a better, sustainable future together




Digital Inclusion

220k+ people from **600+** schools have benefited from TECH4ALL

46 protected areas conserved

400 mn+ people from **20+** countries have used Huawei's inclusive financial services




Security & Trustworthiness

30+ cyber security certificates received by Huawei

25,000+ requests from data subjects promptly and effectively handled by Huawei

50+ internal & external audits covering privacy protection



Environmental Protection

695.1 bn kWh of green power generated by our customers with Huawei's digital power solutions

19.5 bn kWh saved

0.63% of e-waste from ICT business landfilled

0 e-waste from smart devices landfilled

600,000+ used devices traded in



Healthy & Harmonious Ecosystem

CNY **161.5 bn** R&D spending in 2022, representing 25.1% of total revenue

CNY **17 bn+** invested in employee benefits

270+ social contribution programs run by Huawei worldwide

**Statistics as of the end of 2022*

TECH4ALL: Huawei's long-term digital inclusion initiative and action plan



Enabling an Inclusive and Sustainable Digital World

Education

Driving equity and quality in education



Environment

Conserving nature with technology



Health

Enabling inclusive health



Development

Boosting rural development with ICT



Huawei's vision and mission:

Bring digital to every person, home and organization for a fully connected, intelligent world

Driving equity and quality in education: Benefitting remote communities and disadvantaged groups



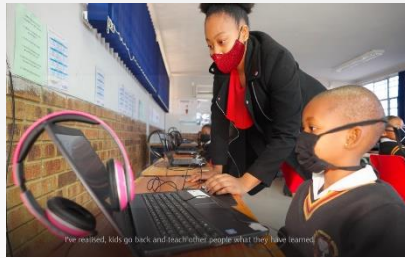
Connecting Schools



Skills on Wheels



Open Schools
in Ghana, Ethiopia & Egypt



DigiSchool
in South Africa



DigitalSchool
in China



DigiTruck
in Kenya & France



SmartBus
in Italy, Spain, Portugal,
Belgium, the Netherlands, etc.

Partners:



CLOSE THE GAP
BRIDGING THE DIGITAL DIVIDE



600+
schools



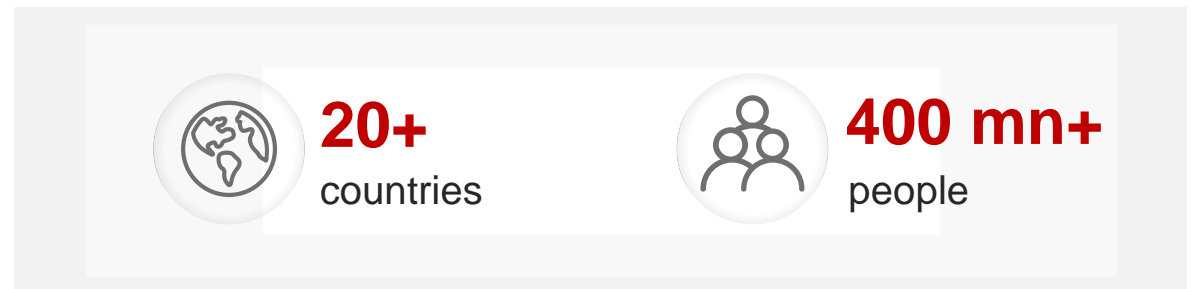
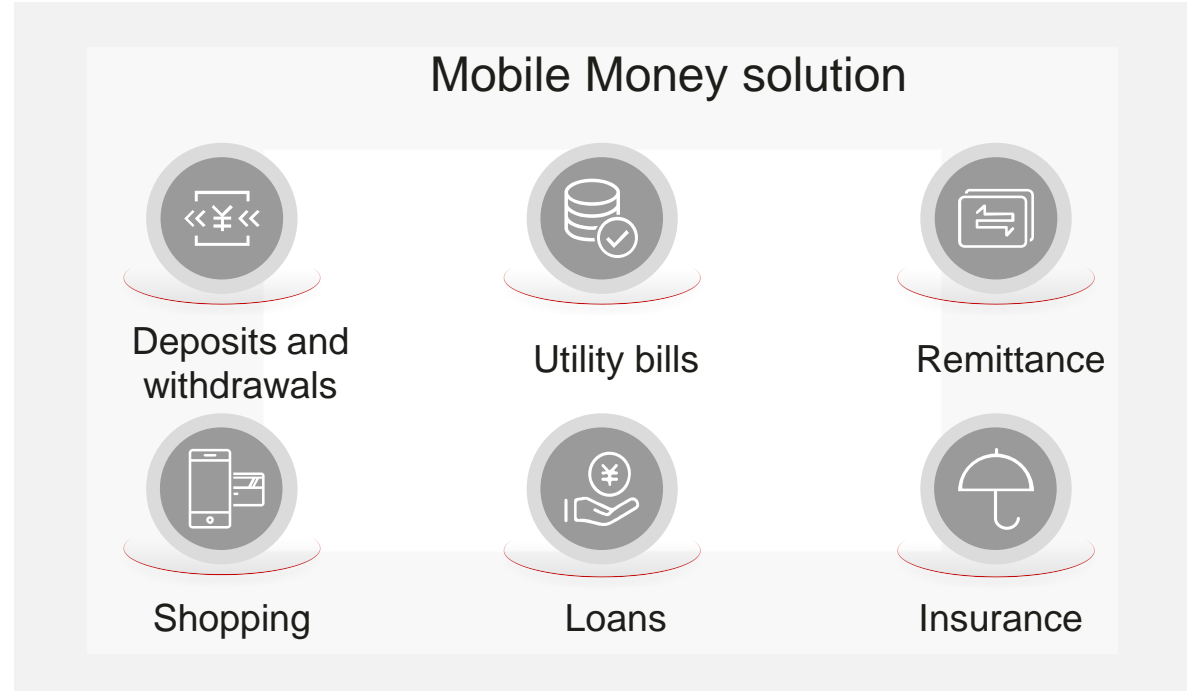
220,000+
K-12 teachers & students,
unemployed youth, and elderly people

Advancing financial inclusion

Major challenge: 1.7 billion people are unable to benefit from financial services.

Mobile Money solution:

- An innovative mobile finance solution and application
- Helping people in remote communities access financial services on their mobile devices



Fostering a better life for all in the future digital world by offering secure and trustworthy products, solutions, and services

Cyber security and privacy protection are a top priority at Huawei. Supporting stable network operations and ensuring uninterrupted communications are part of Huawei's primary responsibilities.



Cyber security and
privacy protection



Openness and
transparency



Supporting stable
communications



Business continuity

Collaborating with key stakeholders to jointly improve cyber security capabilities and address cyber security and privacy challenges

Cyber security and privacy protection are a shared responsibility, and all stakeholders need to tackle this global challenge together. Adhering to our cyber security values of integrity, trustworthiness, capability, accountability, openness, and transparency, we welcome more communication and collaboration with key stakeholders to jointly improve cyber security capabilities and address cyber security and privacy challenges.



Huawei receives the Thailand Cybersecurity Excellence Award from Thai Prime Minister H.E. General Prayut Chan-o-cha

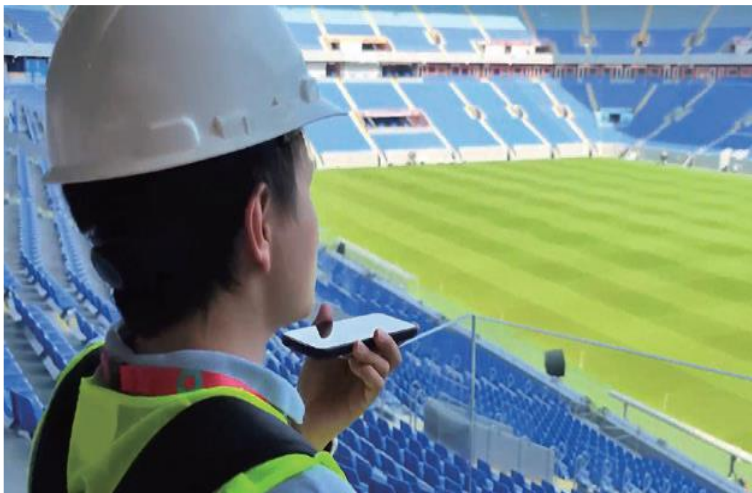


Huawei receives the Fortress Cyber Security Award from the CSC of the UAE



Huawei receives the Authorized Economic Operator Partnership Scheme Gold Award from Hong Kong Customs

An Active, Productive Member of Local Communities



Network Support During the FIFA World Cup
Qatar 2022



Restoring Communications Services During the
2022 Pakistan Floods



Emergency Repair of Communications Networks
Following an Earthquake in Luding, Sichuan,
China

Huawei has stayed committed to what we do best. We believe that it is our responsibility to support stable network operations and ensure uninterrupted communications. In 2022, we provided timely support for **300+** major events and emergencies worldwide.

Protecting the environment with technological innovations

Tech for a Better Planet



Improving energy efficiency and reducing carbon emissions



Promoting renewable energy



Contributing to a circular economy



Conserving nature with technology

Huawei works nonstop to protect the environment

- Obtained the **ISO 40001** environmental management system certification
- Joined the **GeSI**
- Released the company's first **Sustainability Report**

2003–2008

2009–2013

- Held Huawei's first supplier CSR conference
- Launched the **supplier energy saving and emissions reduction** project
- Built the **first PV plant on a Huawei campus**
- Launched the **mobile phone trade-in** program

2014–2018

- Launched a global **device recycling** program
- Established a **green packaging operation** platform
- Obtained the **ISO 50001** energy management system certification

2019–2023

- Entered the CDP climate action **A/A-List** for 3 years running (2020–2022)
- Won the **WWF Climate Solver award** for the FusionSolar Smart PV solution
- Won **GTI's Innovative Breakthrough in Mobile Technology Award** for the 5Green solution

Green Target Network: Working together to build more energy-efficient wireless networks, balancing “Green” and “Development”

More Bits, Less Watts

“Green” and “Development” falling into conflict

Carbon reduction **vs** Network development



“Green” and “Development” coexist

Carbon reduction **&** Network development

- As wireless network traffic continues to grow at a rapid pace, mobile carriers are struggling to achieve energy conservation and emissions reduction while guaranteeing an optimal user experience.
- Working with carriers, Huawei's wireless team has implemented a Green Target Network program to help carriers achieve exponential network traffic growth without increasing energy consumption.
- In 2022, Huawei and European carriers jointly implemented the Green Target Network program at more than 10,000 sites of live networks, saving carriers 4.1 million kWh of electricity.

AAU Super Deep Dormancy:
Cutting energy consumption by **99%**, automatically woken up and activated without affecting user experience

GreenSite:
Adjusting auxiliary site equipment based on service changes in real time, thereby maximizing energy efficiency of sites

iPowerStar:
Reducing energy consumption in wireless networks by **30%** and achieving both optimal user experience and optimal energy efficiency

Three advanced energy conservation solutions

Circular economy: Full-lifecycle environmental impact reduction

More eco-friendly materials

Recyclables

Devices use **10 kinds** of recyclable materials.

Hazardous substance management

Complying with hazardous substance management laws and regulations in and outside China (e.g. (RoHS, REACH), and proactively eliminated **6 kinds** of substances that may cause harm to the environment and human health when being recycled

Less waste

Device recycling & reuse

2,884+ tons of e-waste was disposed of through Huawei's own recycling channels in 2022, **none of which was landfilled.**

Reverse logistics of ICT products

13,404 tons of e-waste from Huawei's ICT business was disposed of in 2022, **only 0.63% of which was landfilled.**



Lower-carbon processes

Green design

21% less ICT product lines use wave soldering, reducing electricity use by more than **one million kWh per year.**

Green packaging

FSC-certified paper, printed with **100%** biodegradable soy ink

More durable products

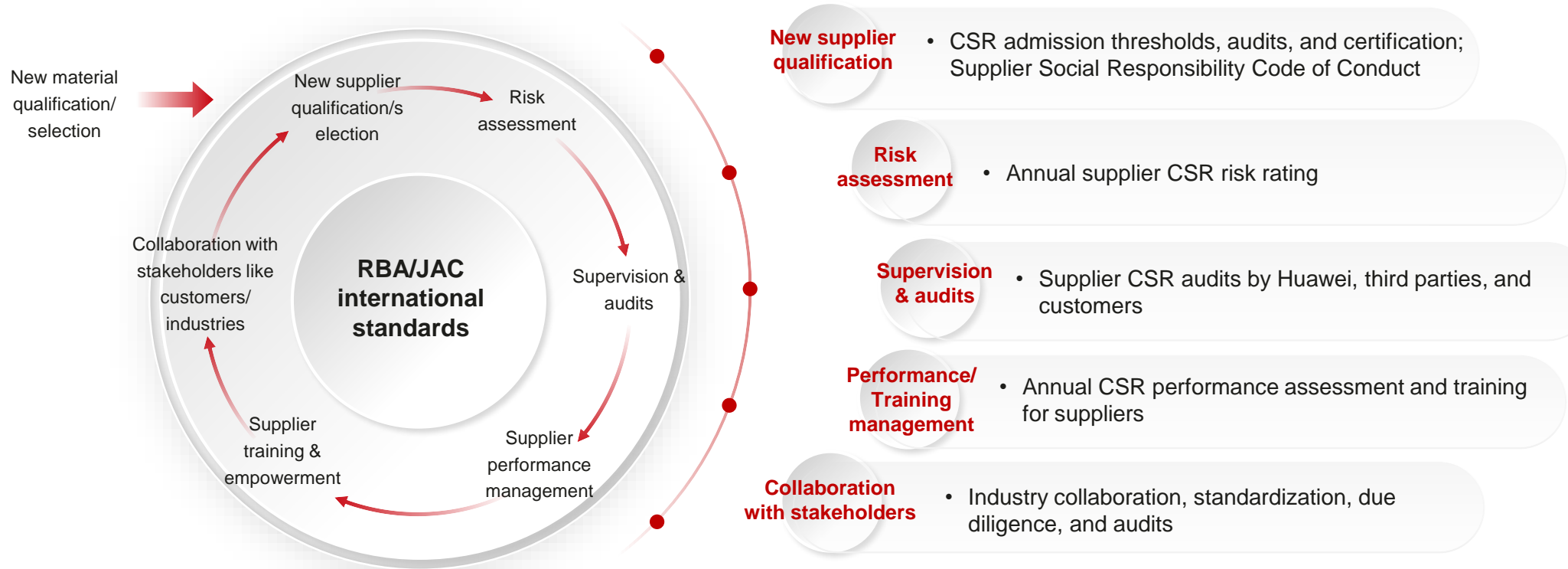
Upgradable software and hardware

Device service life has been extended.

Simple disassembly and repair

98% of devices are repaired within 1 hour. **200,000+** consumers benefit from the global flat-rate battery replacement program each month. Refurbished used screens, resold to consumers at nearly **half the price** of a new one

Due diligence throughout supply chains to enhance their resilience



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supplier violations of CSR red lines

67%

of the top 100 suppliers already use renewable energy and clean energy

1600+

major suppliers assessed for their CSR performance

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2023 Sustainability Goals

Digital inclusion



- Implement **17** new projects as social value benchmark projects

Security and trustworthiness



- **Zero** level-1 cyber security incidents
- **Zero** level-1 personal data leaks
- At least **90%** of incidents are fixed within one hour

Environmental protection



- Energy efficiency of ICT products up by **5%~10%** in 2023 compared with 2022
- Purchase **400 million kWh** of green electricity and **1.9 billion kWh** of clean energy
- ICT e-waste landfill rate: **0.9%**
- **None** of the e-waste from our consumer business went to landfills

Healthy and harmonious ecosystem



- Seeds for the Future: Train **2,000** people
- Hold **3** activities for Women in Tech program
- Customer CSR audit pass rate: **100%**
- **Zero** fatal subcontractor EHS liability incidents

Thank you.

把数字世界带入每个人、每个家庭、
每个组织，构建万物互联的智能世界。

Bring digital to every person, home and
organization for a fully connected,
intelligent world.

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