

Networks built for resilience can withstand what's coming

Climate events that used to be rare shocks are now regular tests of resilience. In these moments, **networks carry emergency calls, supply chains, and the flow of entire economies.**

Preparing resilient networks today is how we protect lives, businesses, and communities tomorrow.



World Meteorological Organisation predicts there's an **80%** chance one of the next five years will break 2024's record as the hottest year.¹

NASA reports extreme weather events (droughts, floods, storms) have doubled compared to the 2003–2020 average.¹

Climate-related extreme weather has already cost the global economy **\$2 trillion** over the last decade.²

When disasters happen, the surge in demand can strain networks

During **Cyclone Alfred** (2025), more than 250,000 households in Australia lost NBN access, with widespread mobile outages.³

The **Myanmar earthquake** (2025) collapsed communication towers and cut off landline, mobile, and internet services. In remote areas, electricity was entirely absent, leaving rescue and relief operations severely hampered.⁴

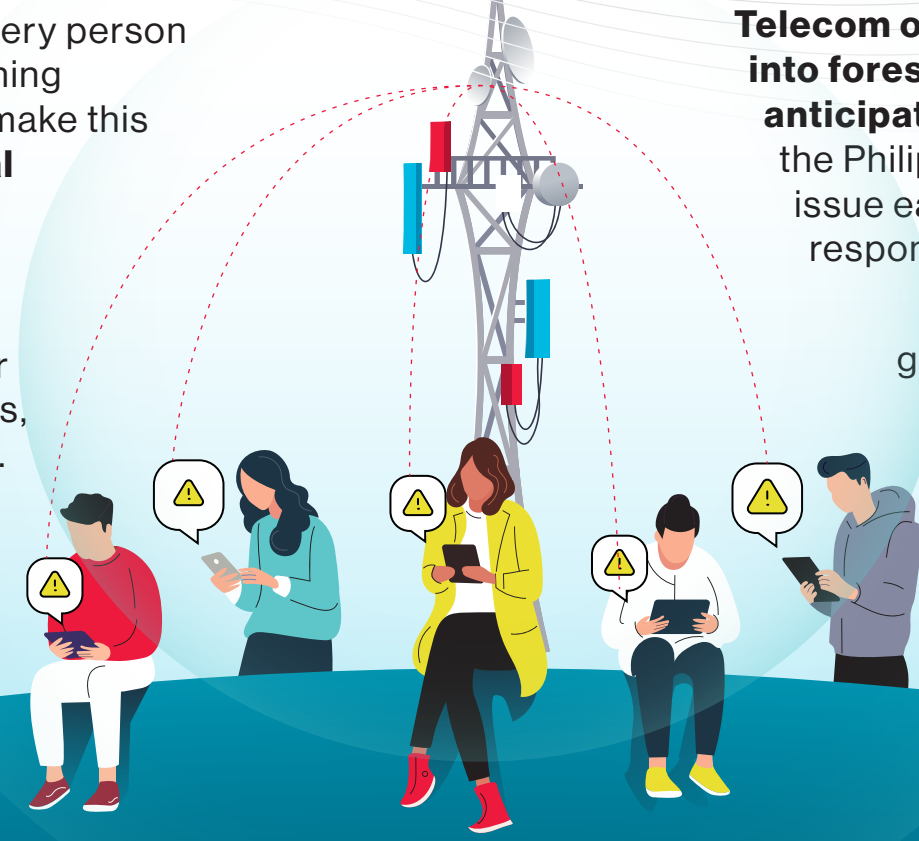
From disaster recovery to anticipatory resilience

By 2027, the UN aims for every person to be covered by early-warning systems. Mobile networks make this possible: **95% of the global population is already within reach.**⁶

Cell broadcast and location-based SMS deliver verified warnings in seconds, cutting through congestion.

Telecom operators are turning data into foresight, using AI and Big Data to anticipate risks. During Typhoon Rai in the Philippines, this helped authorities issue early warnings and coordinate response.⁶

For businesses and governments, this translates into better mitigation, smarter adaptation — and resilience before disaster strikes.



Building continuity into critical infrastructure

Through solar power, network APIs, and renewable-backed energy, essential services remain operational even under extreme conditions, turning technology and connectivity into a lifeline.

Solar energy in action

Even when storms knock out power, **solar energy** keeps phones alive and lights on, giving communities the tools they need to respond and recover.⁷

Sustainability at the core

Singtel generated **2,100 MWh** from solar in Singapore (2023) and secured **700,000 MWh** of renewable-backed energy for 2025–2029, aiming for **50% renewable energy use** across Singapore and Australia by 2030.⁸

Connected coordination

Network APIs, such as the GSMA Open Gateway, link mobile operators with governments and aid organisations, **enabling rapid, coordinated disaster response.**⁹

Humanitarian infrastructure

Connectivity is increasingly a core layer of support, with the GSMA pledging to **connect 20 million displaced people by 2030.**⁹

Every signal matters



Heatwaves

Timely mobile alerts keep communities informed and protected.



Floods

5G-powered drones deliver urgent medical supplies.



Agriculture

Farmers receive real-time climate-smart crop alerts.



Healthcare

Off-grid base stations keep hospitals connected during blackouts.

Making Asia's connectivity resilient and sustainable

Singtel aims for a future where connectivity is both resilient and sustainable. By reducing emissions in line with the 1.5°C Paris goal and targeting net-zero by 2045, climate action is embedded in our core operations.

Internal carbon pricing links emissions to financing and accountability, driving measurable impact. Resilient network designs safeguard against floods, heat, and bushfires, while regular climate risk assessments help ensure networks remain reliable and sustainable for businesses across APAC.¹⁰



Contact us

Make resilience part of your infrastructure with Singtel.

References

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