

The human impact of 5G network slicing in emergency response

At rush hour, a bridge collapses – chaos erupts.

Medics rely on live updates to triage the injured. Police monitor drone feeds to assess traffic and crowd movement. Meanwhile, firefighters use real-time sensor data to locate structural hazards and coordinate rescue efforts.

During emergencies, network demands peak, and disruption can sever critical lines of communication.



The UN's Global Assessment Report projects that by 2030, the world could face up to 560 natural disasters each year.¹ These events could expose half the global population to floods, storms, and tsunamis.²

The best way to respond is to be ready.



The number tells a story – uninterrupted connectivity can save lives.

When the network breaks down, critical infrastructure falters too.



Urgent messages

get delayed or lost during large-scale events or natural disasters.



Shared public networks

can't prioritise emergency traffic, they treat all data equally.



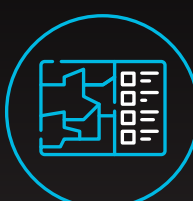
Legacy systems

lag in speed, flexibility, and real-time coordination.



Rural and disaster-hit zones

suffer inconsistent coverage right when it's needed most.



Field teams

struggle to share live updates, delaying critical decisions.



Emergency services

like ambulances, firefighting units, and utility crews can't coordinate fast enough.

These challenges are further amplified by:



Environmental extremes

Heavy smoke, flooding, rough terrain, or collapsed towers



Human stressors

Overloaded responders, unclear communications, and inconsistent signals



Tech breakdowns

Failing equipment, overwhelmed towers, widespread blackouts

What if first responders had their fast lane?

Climate-driven emergencies in Asia-Pacific are rising fast.³ Early warnings help only if responders stay connected in real time.

The longer a disaster drags on, the heavier the toll is on lives, infrastructure, and recovery.

By 2030, 5G will bring USD 133 billion in benefits to the region.⁴ With this growth comes an opportunity to build networks that support innovation and protect lives. Similar to sirens in a traffic jam, 5G network slicing makes space for those who need it first.

The road is shared, but urgency rewrites the rules.

It creates dedicated lanes within a single physical network, reserving priority access for first responders without competing with everyday traffic.

With 5G network slicing, emergency teams get:



Support for mission-critical apps

like drones, body-cams, and health monitors.



Priority access

ensures responders' data moves first, even during peak use.



Guaranteed bandwidth, low latency, and high reliability

for seamless coordination across agencies, from street-level units to command centres.



Isolates emergency traffic

from public or commercial users.

Behind every fast response is a faster network

During emergencies, it's about how fast first responders can receive information, coordinate across agencies, and act with clarity during the chaos.

From triaging patients mid-transit to coordinating disaster relief across agencies, here's how instant, uninterrupted connectivity translates into action on the ground.^{5,6}



Live video from ambulances

Paramedics triaging patients en route



Drone surveillance

Search-and-rescue teams in disaster zones



AR navigation tools

Firefighters in low-visibility conditions



Mission-critical messaging

Agencies tracking chemical leaks or wildfires



Smart crowd control

Public safety teams at concerts, rallies, or marathons

Slicing through the chaos with Singtel 5G+ Priority

Singtel 5G+ Priority leverages 5G network slicing to dynamically allocate resources to the people and applications that matter most.

Whether it's a video call from a command centre, sensor data from the field, or live drone feeds over a disaster zone, every critical data stream gets a clear path, even during peak demand.

With advanced prioritisation at both the device and application level, Singtel ensures that frontline teams stay connected, informed, and ready to act.

Be ready for the unexpected. Explore how Singtel 5G+ Priority keeps frontline responders connected.

Talk to us today.

Contact us

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