Digital Inclusion

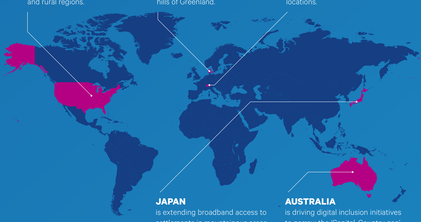
THE WAY FORWARD

Communication is a fundamental social process, and recognised as a basic human right under Article 19 of the UN's Universal Declaration of Human Rights. Governments across the globe are working to achieve digital inclusion targets in their countries.

USA
is in the midst of upgrading its cellular networks to LTE in Alaska and rural regions.

DENMARK
is enabling critical communications in villages situated in the frozen hills of Greenland.

SWITZERLAND
is working to deliver connectivity to remote hamlets in high altitude locations.



JAPAN
is extending broadband access to settlements in mountainous areas and remote islands.

AUSTRALIA
is driving digital inclusion initiatives to narrow the 'Capital-Country gap' across states.

While digital inclusion is an important consideration in developing nations still in the process of building their first connectivity solutions, it's also a crucial aspect in the context of the developed world—where connecting under-served communities is a top focus.

CONNECTING THE UNCONNECTED

When delivering connectivity to end users' devices in under-served areas, two last-mile technologies are highly prevalent—each presenting a unique set of advantages, applications, and requirements.

WI-FI HOTSPOTS

CELLULAR NETWORKS

WHY
it's popular

- Since Wi-Fi standards use unlicensed spectrum, any internet service provider (ISP) can establish hotspots
- Wi-Fi can be accessed via a wide array of user devices—including smartphones, tablets, and personal computers
- The cost of building a Wi-Fi hotspot is relatively low in comparison to other last-mile technologies

- Mobile Network Operators (MNOs) can extend cell networks using their licensed and protected spectrum
- Smartphones and tablets that use cell technology are more popular today than computers
- Cell sites can be built to scale—potentially reaching users that are more than 50km away

HOW
it empowers communities

Wi-Fi's ability to reach multiple end-user devices enables critical applications:

- Doctors and hospitals can improve services via smart tools
- Communities can benefit from eGovernment initiatives such as elections
- Businesses in the retail and eco-tourism space can enhance customer experience
- Students can access eLearning programmes

Cell technology enables people to connect with each other and access valuable information:

- Loved ones can stay in touch
- Farmers can find the latest weather reports and market prices
- People can work and conduct business using web applications

WHAT
it needs to succeed

- Sufficient throughput
- Reliable backbone connectivity
- Central, public location to attract users
- Low but reliable power, such as wind and solar

- Adequate throughput, low latency, and low jitter in backhaul to prevent dropped calls
- Secured space to raise a mast and host equipment
- Reliable power, such as generators or solar

WHY CHOOSE A MULTI-ORBIT SATELLITE SOLUTION?

Whether you're connecting the unconnected via Wi-Fi hotspots or cellular networks, a multi-orbit satellite solution provides coverage optimised to help you reach every opportunity—anywhere on Earth.

GLOBAL REACH
Leverage wide coverage via geostationary Earth orbit (GEO) high-throughput satellites (HTS) to reach multiple, far-spread points from a single network.

CARRIER GRADE
When a cluster of sites can be connected locally, medium Earth orbit (MEO) satellites deliver a fibre-like experience for aggregated demand.

FLEXIBILITY
A multi-orbit fleet enables you to scale and adjust throughput to meet the unique needs of each site you serve.

RELIABILITY
Receive connectivity optimised for latency and jitter for video and audio calls, as well as business applications.

YOU WITH SES

While the path to unlocking a digitally inclusive world may be complex, we're here to help you simplify the journey. We're fully equipped to support you as you extend your network to the most remote regions in the world.

READY FOR YOU
Get connected quickly and easily, and reach 99% of the Earth's population via our multi-orbit fleet.

COMMERCIALLY PROVEN
Deliver 5G services confidently with the first—and only commercially operating—non-geosynchronous satellite (NGSO_ constellation, O3b MEO.

FUTURE-READY
As market demands grow and change, O3b mPOWER brings unprecedented flexibility, scalability, and performance to help you deliver applications of the future—anywhere.

Learn how we're helping our customers take the digital inclusion story forward.

READ OUR WI-FI SUCCESS STORY

READ OUR CELLULAR NETWORKS SUCCESS STORY

SES

For more information, visit:
www.ses.com