Facebook Connectivity

Bringing more people online to a faster internet

Towards Digital Pacific Tom C. Varghese Head of Connectivity and Access Policy, APAC



Why Facebook And Connectivity?

Our Business Depends On Good Connectivity

Unique mobile subscribers by 2025

5.8m

44% of population By 2025 Mobile internet users by 2025

4.4m

33% of population by 2025

Source: The Mobile Economy Pacific Islands, 2019



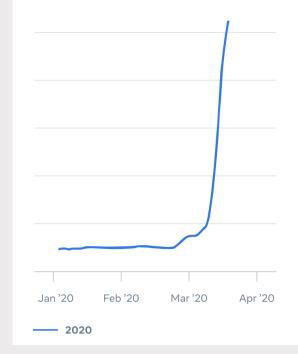
As the pandemic expands and more people practice physically distancing themselves from one another, this has also meant that many more people are using our apps.

In many of the countries hit hardest by the virus, total messaging has increased more than 50% over the last month. Similarly, in places hit hardest by the virus, voice and video calling have more than doubled on Messenger and WhatsApp.

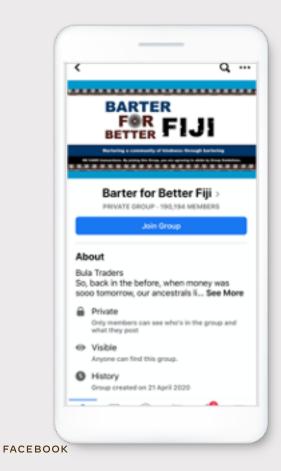
During this emergency, we're doing everything we can to keep our apps fast, stable, and reliable. We're monitoring usage patterns carefully, making our systems more efficient, and adding capacity as required.

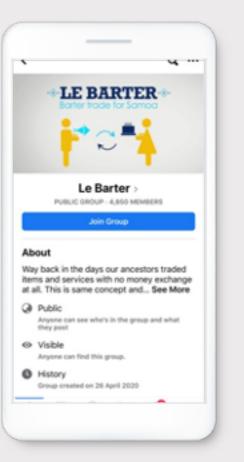
Read more: https://about.fb.com/news/2020/03/keeping-our-apps-stable-during-covid-19/

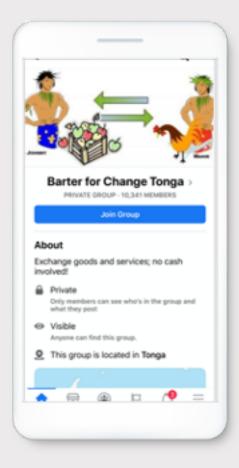
Group Call Time (minutes) in Italy



Keeping our services stable and reliable







Value chain element

Description

End users access the Internet using browsers and applications on their devices, sending and receiving data across the connectivity value chain

End user

Access networks provide the final connection to end users mobile access networks may use different technology generations [2G, 3G, 4G, 5G] and send wireless signals to mobile devices or to fixed-wireless access (FWA) routers fixed-line access networks may use copper or fibre-optic lines, with the latter offering higher connection speeds

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Access networks

Backhaul is the part of the network that provides connectivity from access networks to the core networks and the wider Internet. This mav be high-capacity fibre cables, or use wireless technologies (e.g. microwave or satellite). depending on type of terrain, technical requirements, and cost considerations

Backhaul

Edge network elements, such as Internet exchange points (IXPs), points of presence (PoPs) and caches are used to create efficient peering links and to store content. minimising the distance that content needs to travel to reach the end user. thereby reducing the time required for the user's request to be processed (i.e. latency) and the cost of transporting data

Edge network

International links

such as submarine

and terrestrial fibre

remote geographies

to deliver content

cables connect

between them

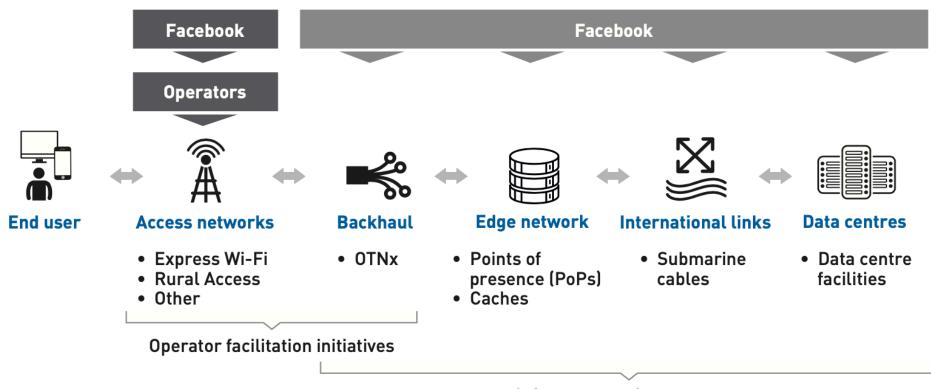
International links

Data centres

Data centres are

facilities that store content and process data at large scale

Read more: full report



Infrastructure investments

Help people discover the relevance and benefits of connectivity with free access to basic online services

Free Basics offers access to basic online services without data charges

Facebook Flex helps people stay connected and have access to the internet when they run out of data

Discover helps people stay connected more consistently by enabling them to browse the internet using free daily data





It is difficult for MNOs to meet increased demand for internet access and data-intensive content, particularly in rural areas

Express WiFi is a platform that enables service providers and mobile network operators to build, operate, grow and monetize their Wi-Fi business in a sustainable and scalable way



Read more: https://connectivity.fb.com/wi-fi/



The lack of fiber remains a key bottleneck in many countries.

We invest in infrastructure to drive down the costs of internet bandwidth. We expect our investments to reduce the costs of delivering data and improve network reliability and speeds, and encouraging infrastructure sharing.

In Indonesia, our partner Alita will deploy 3,000 km of metro fiber to connect more than 1,000 cell sites in Bali, Java, Kalimantan and Sulawesi





OPEN TRANSPORT NETWORKS

Pacific Islands Digital Citizenship and Safety program

- An **online educational campaign** that aims to increase children's and youth's digital literacy, so that they can enjoy safer and more positive online experiences
- Delivery partner: Save the Children Fiji
- Pilot countries: Fiji, Samoa, Tonga (+PNG)
- Launching December 2020
- Target audience children/youth and parents
- **Tailored to be locally appropriate** in each country context, particularly relating to language and culture (resources to be translated into Fijian, Hindi, Samoan and Tongan languages)
- Developed in consultation with an expert Advisory
 Group, comprising government, NGO, youth and academic representatives.



Virtual meeting of the Pacific Islands Digital Citizenship and Safety Advisor Group, September 2020

Thank you!

