

Facebook and Connectivity: Connecting at Scale and Connecting the Unconnected

IEEE Summit on Communication Futures

Dr. Robert Pepper Head, Global Connectivity Policy and Planning

18 January 2020

*2.8 billion monthly users *100+ billion messages/day *1+ million comments, posts, status updates/minute

But

GLOBAL ACCESS

4G CONNECTIONS

57%

43% to 59%

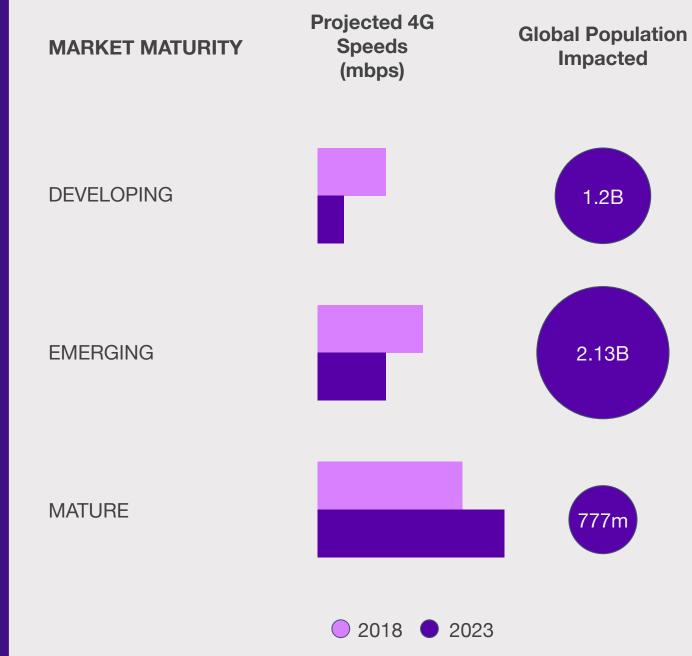
INDIVIDUALS CONNECTED TO THE INTERNET

PERCENTAGE OF 4G CONNECTIONS WORLDWIDE BY 2025

The Problem

Network Performance is At Risk

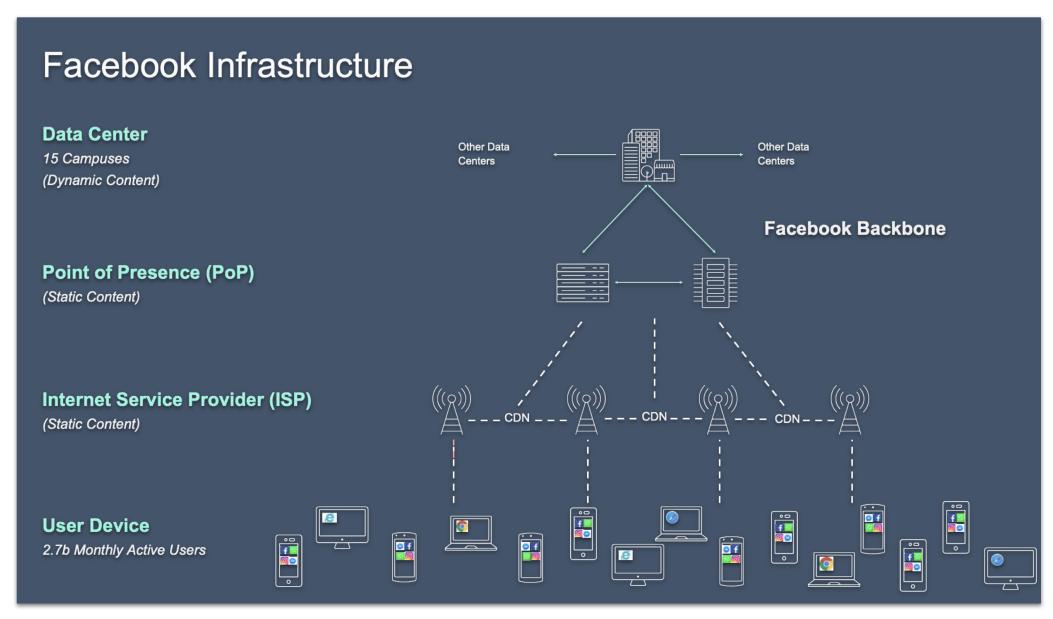
3.3 billion people in **developing** and **emerging** markets are at risk of degraded network performance by 2023



Facebook and Connectivity

- Our business depends upon good, and getting better, connectivity everywhere
- Core, Edge, Access
- Production Network
- Partnering to connect the un- and under-connected
- Technology agnostic—what works best

Connecting Facebook



Growing Connectivity--FBC Infrastructure

EXPRESS Wi-Fi

Providing fast, reliable, Wi-Fi when and where people need it.

TERRAGRAPH

Innovative, high-speed mmWave backhaul solutions for dense urban and suburban environments.

MAGMA

Open source mobile packet core designed to help operators extend the reach of their existing network.



Growing Connectivity—Open Transport Networks

Partnering to bring fiber connectivity to under connected communities worldwide.

Open Transport Networks work in Africa:

970+

km of new fiber installed

1.5m+

People connected

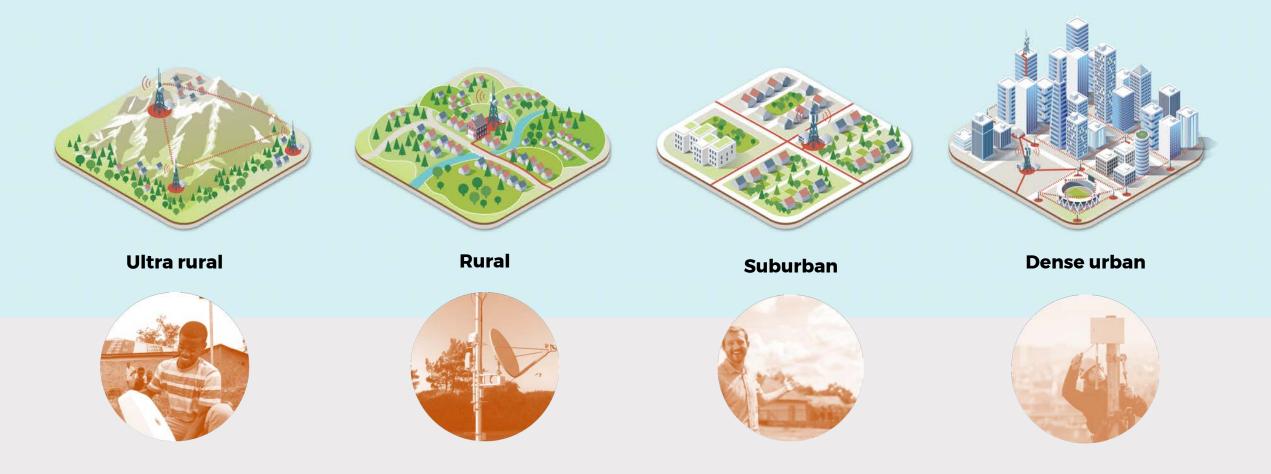


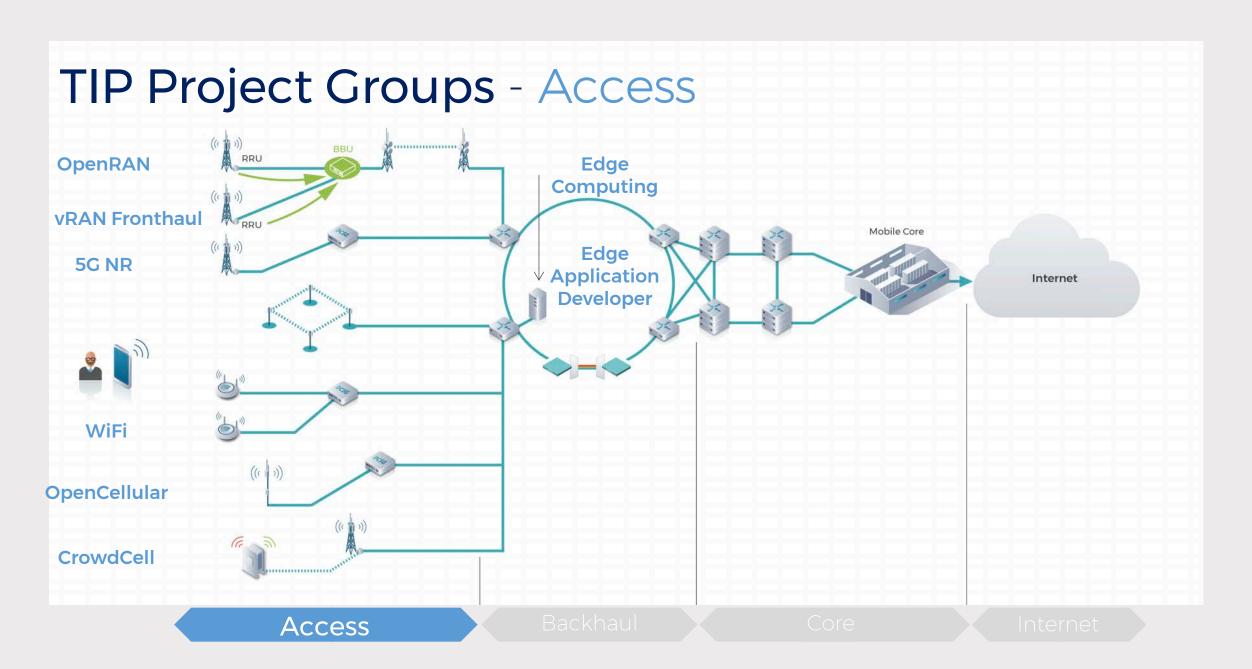


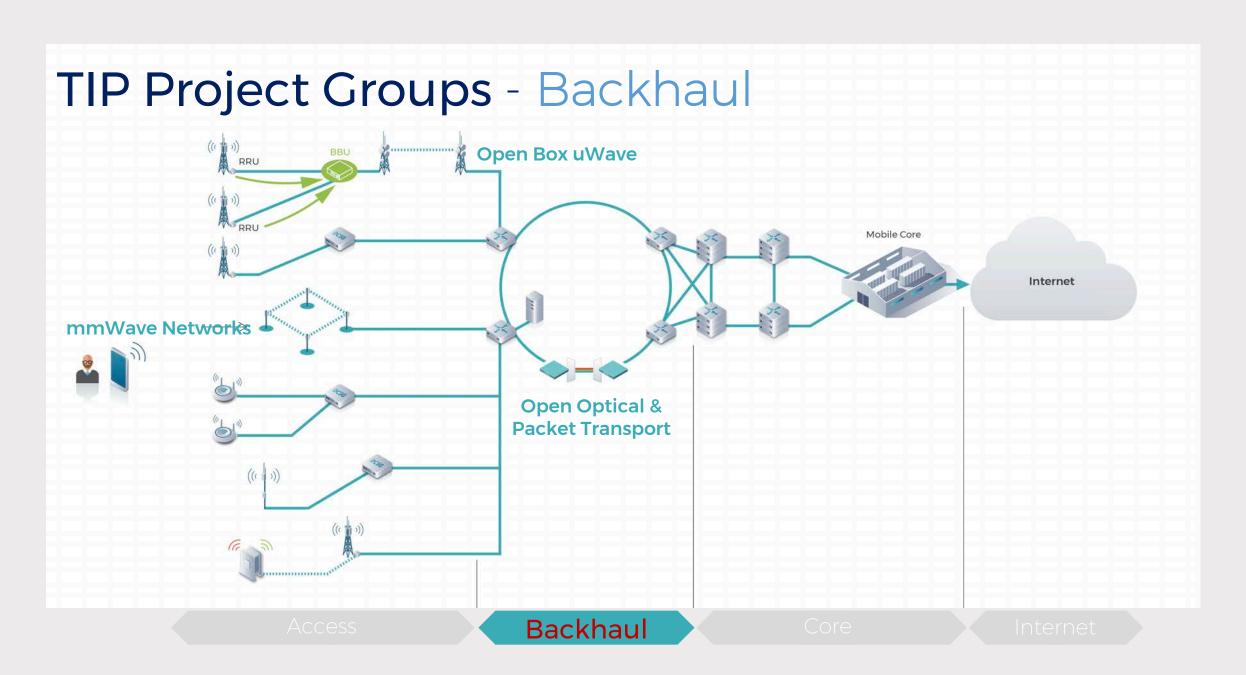


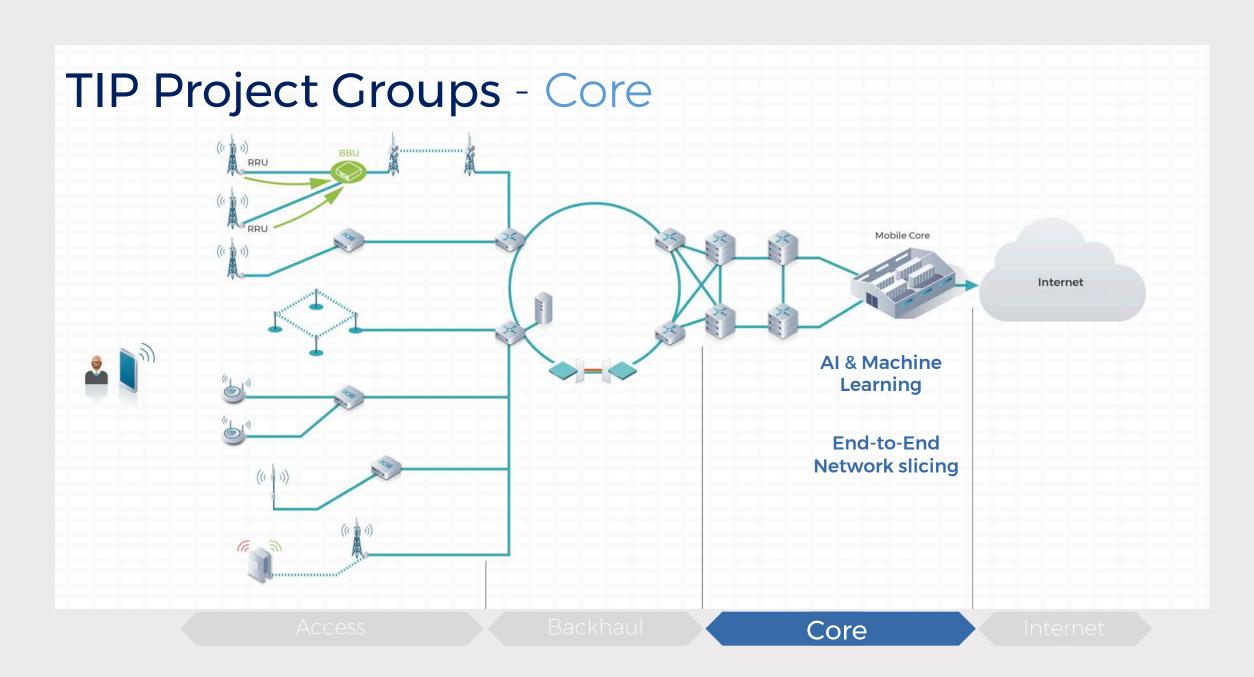


Telecom Infra Project (TIP) Connectivity challenges in every environment

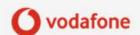








The TIP Community











































































amdocs









































