

2022

GLOBAL SUMMIT



DYNAMIC • SPECTRUM • ALLIANCE

Day 1

Sep 12-14, 2022 | Paris, France

Keynote

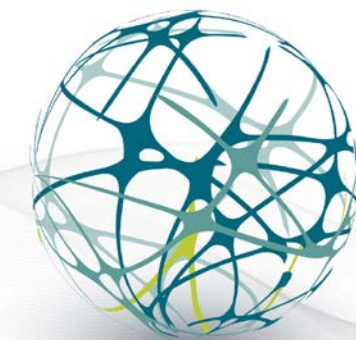
Artur Coimbra
Commissioner
ANATEL (Brazil)



Spectrum Sharing

Regulation

- WiFi 6 (IEEE 802.11ax) – Resolução 726 (05/05/2020) - Frequency Assignment
- Ato nº 1306 (01/03/2021)- Technical Specification
- Very low power
- Environment (indoor)
- Small cells
- Devices – 83 models homologated
- Infrastructure needs



Regulation

- White Space (Super WiFi) – Resolução nº747 (05/10/2021) – Frequency Assignment
 - Outdoor application
 - Geo data base and grant process
 - Broadcasting agents
 - Suitable for large areas
 - Schools in remote areas
 - Agriculture (IoT)
 - No certified devices



Spectrum Sharing

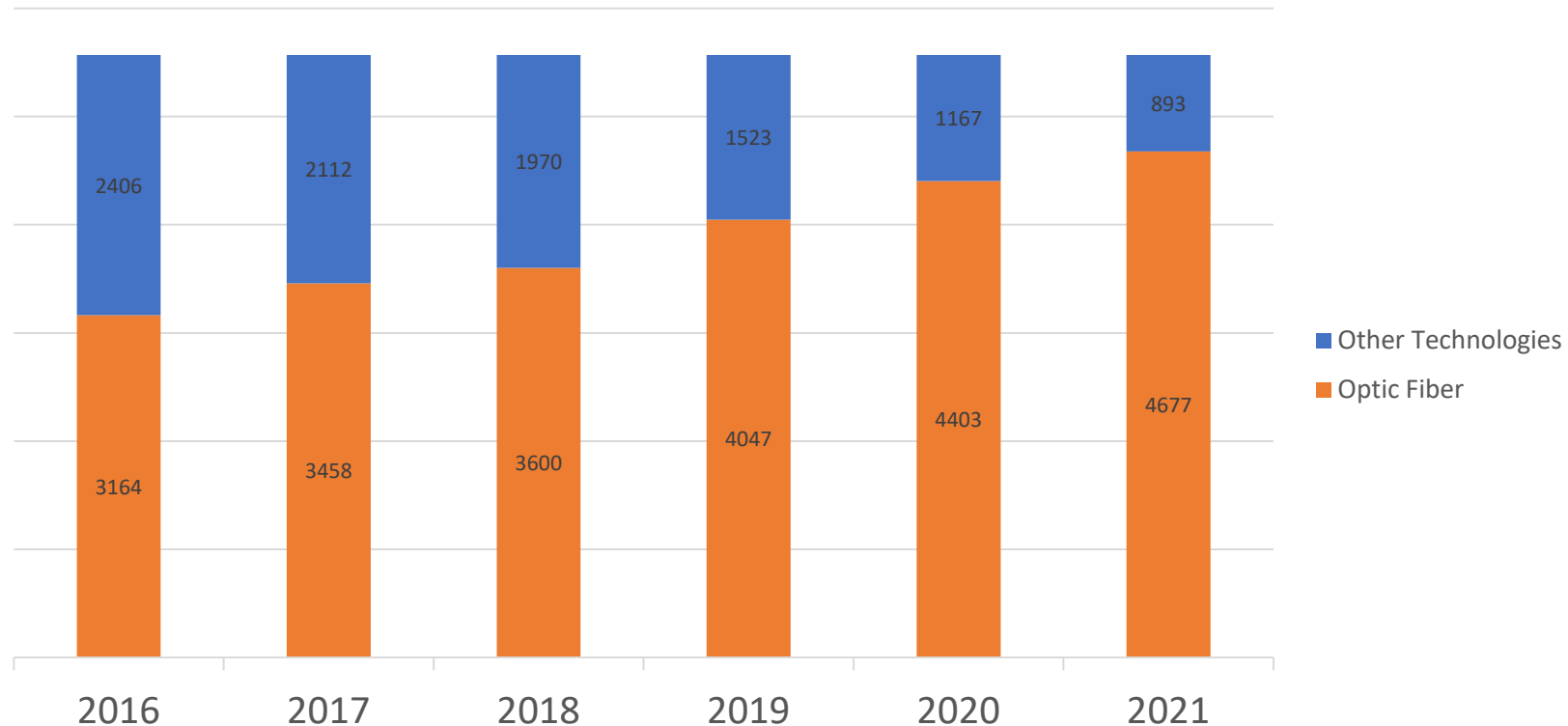
5G (FR1: 500MHz TDD)

- NSA / SA – Timeline (2022 to 2029)
 - 2029 – Whole urban areas of Municipalities
- 700MHz (45MHz FDD) for roads (30.000km)
 - Mobile operators
 - A a lot of devices already working
- Remote areas – small villages, indigenous villages, settlements etc.
 - Obligation – 4G coverage



Spectrum Sharing

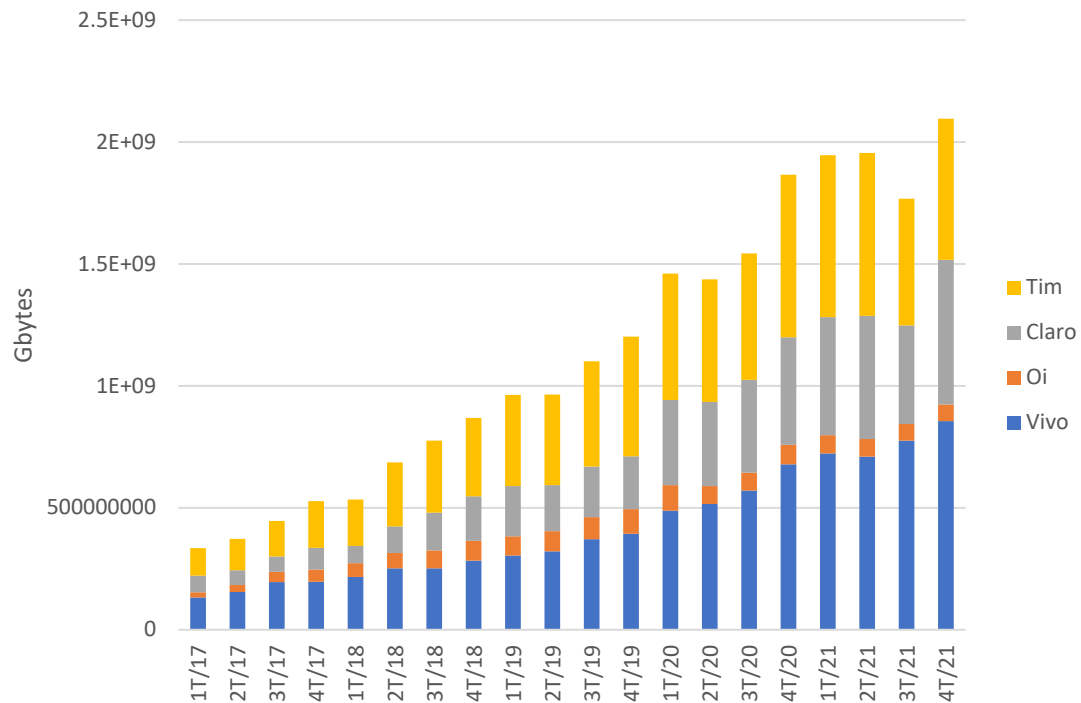
Optic Fiber Backhaul Evolution – 5570 cities



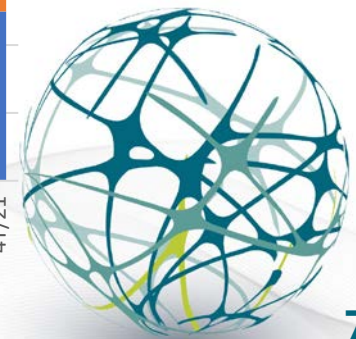
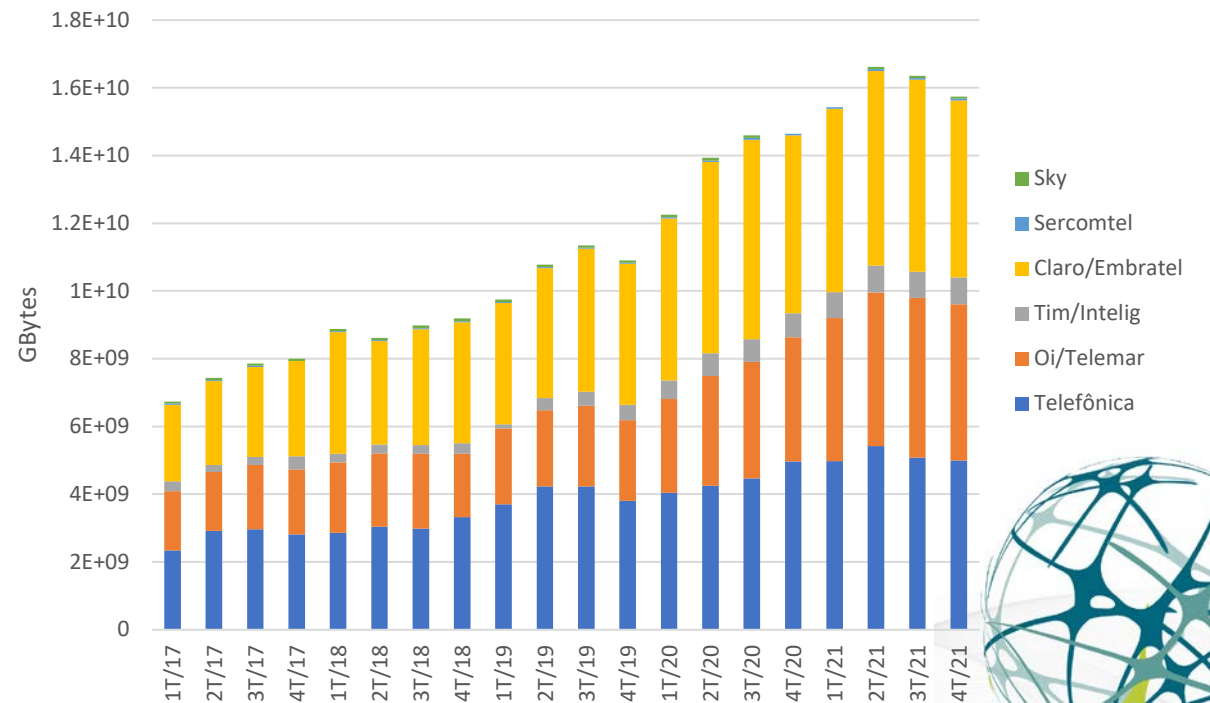
Spectrum Sharing

- Data Traffic

Mobile Service



Fixed Services



Spectrum availability for affordable connectivity for those that are still unserved or underserved

Underserved areas

- Suburban areas
- Small villages, indigenous villages, settlements etc
- Small cities

Unserved areas

- Small villages, indigenous villages, settlements etc
- Rural areas – agriculture proposals



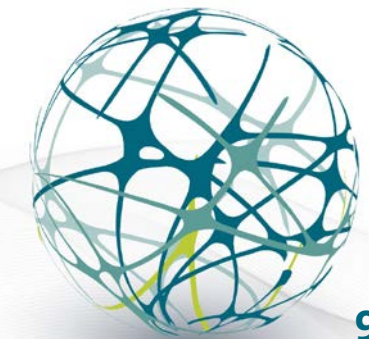
Spectrum availability for affordable connectivity for those that are still unserved or underserved

Community Networks

- Remote areas
- 63 Community Networks
- Cost : ≈US\$ 200/month

Rural Areas / Private Networks

- IoT
- Connectivity (school, entertainment, security etc)
- Frequency Polygon



Questions?

Contact Information:

gcac@anatel.gov.br



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