

San José, Costa Rica, 25-26 September /septiembre 2023

Enhancing investments in 5G infrastructure: the Brazilian experience

Edgar Souza
Anatel, Brazil



Introduction

- Deployment of broadband infrastructure projects may require very large amounts of investment
- Financing alternatives may be limited or reduced, specially for implementing public policies
- Brazil has been designing investment mechanisms in spectrum auctions for more than 15 years



The Brazilian Challenges



Continental extension



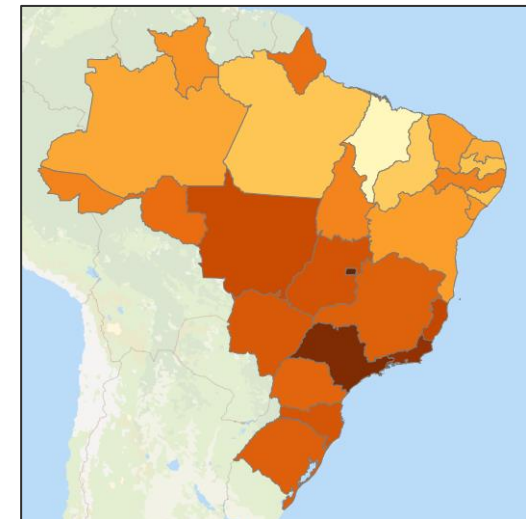
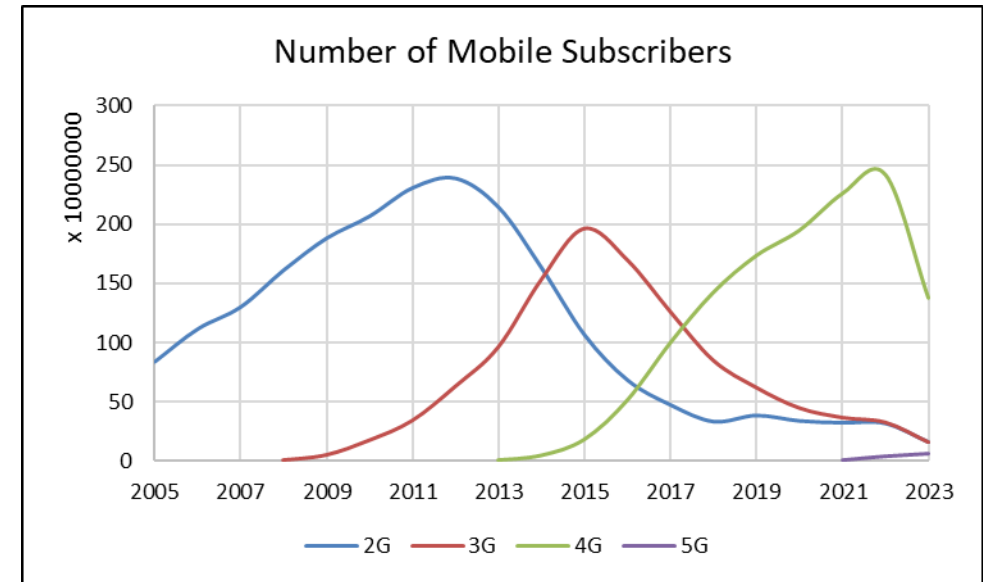
Low income per capita



Low ARPU

Structrural Plan for Telecommunications Networks

- Comprehensive diagnostic of Brazilian broadband networks
- Identify connectivity gaps
- Propose investment projects and sources of financing



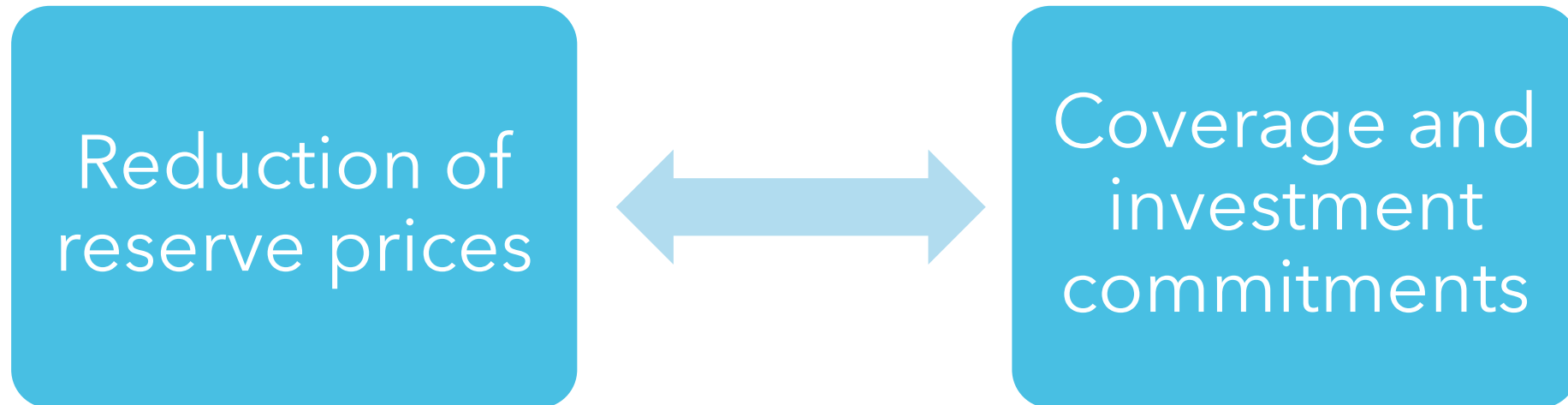
History of Spectrum Auctions in Brazil

- Design of investment mechanisms since 2007
- Net Present Values (NPV) include deployment costs of projects that are not economically attractive

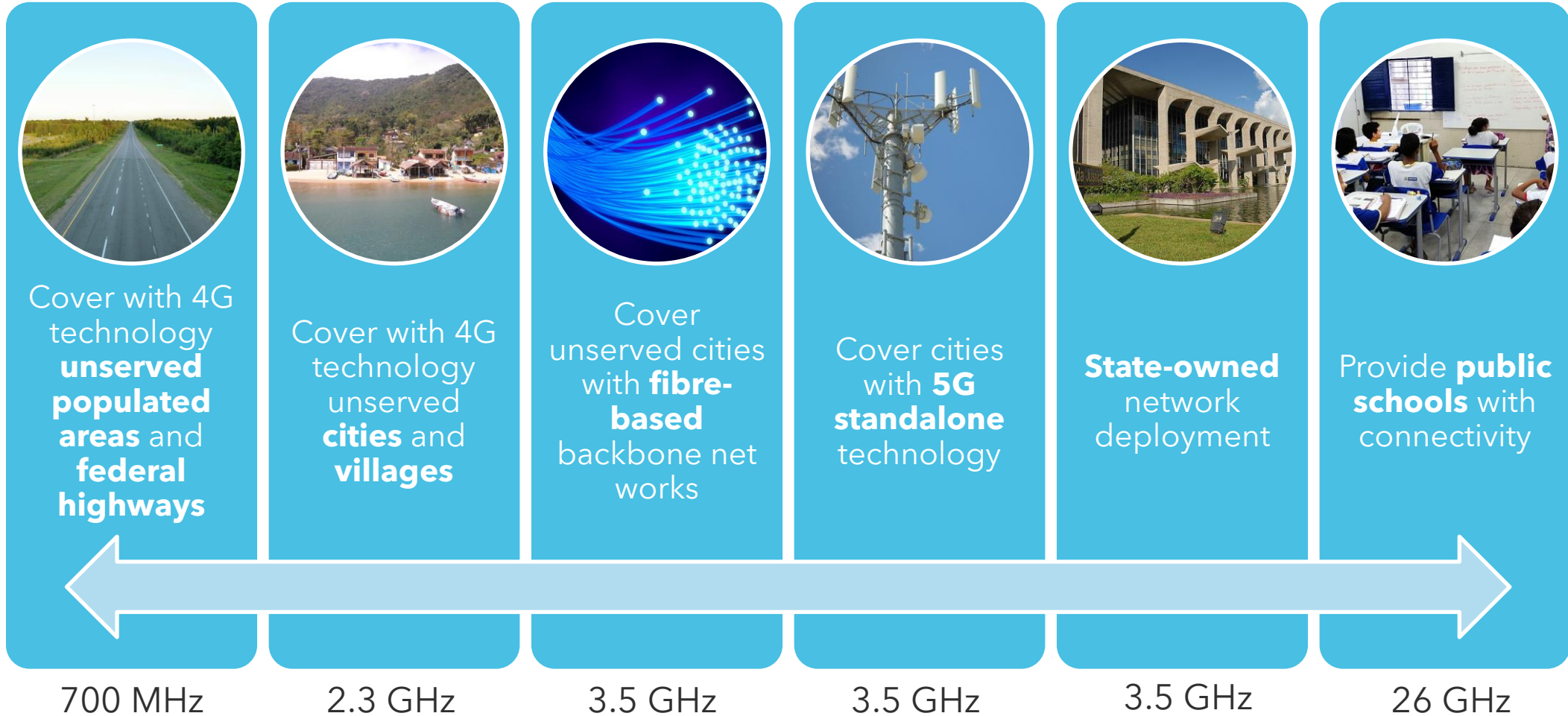


The so-called “5G Auction” (2021)

- Multi-band auction: 700 MHz, 2.3 GHz, 3,5 GHz and 26 GHz
- Conversion of [at least] 90% of the economic value of spectrum into investment commitments



Summary of Investment Commitments



Concluding remarks

- Financing mechanisms are key factors for successful deployment of broadband infrastructure
- Identifying infrastructure gaps is a very challenging task
- Brazil has been including coverage/investment obligations in spectrum auctions since 2007



Thank you!

