

# **BEREC Workshop: Submarine cable connectivity: Competition & market dynamics, ex-ante economic regulation and future challenges**

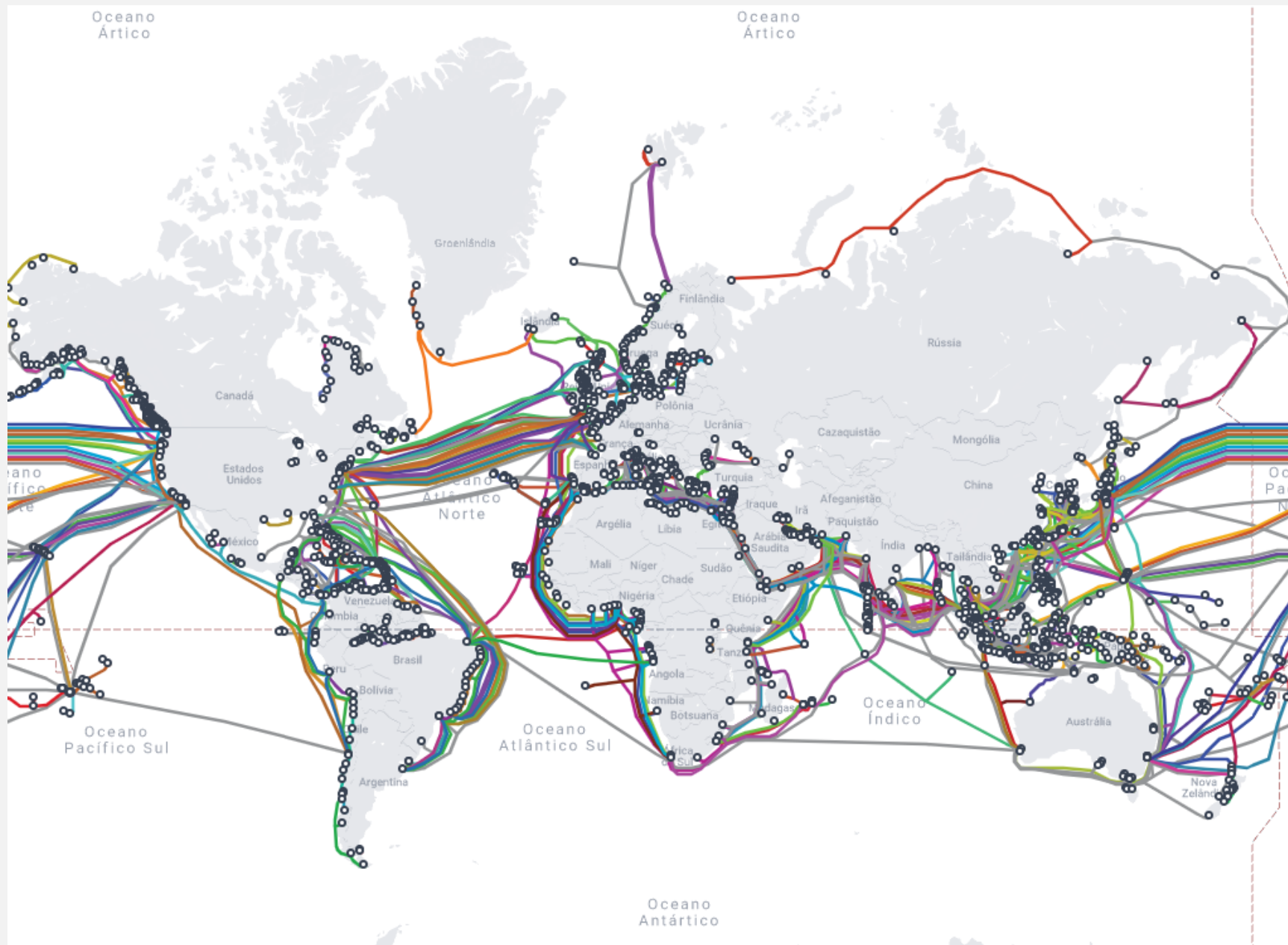
**Investments, competition and regulatory approach: case studies**



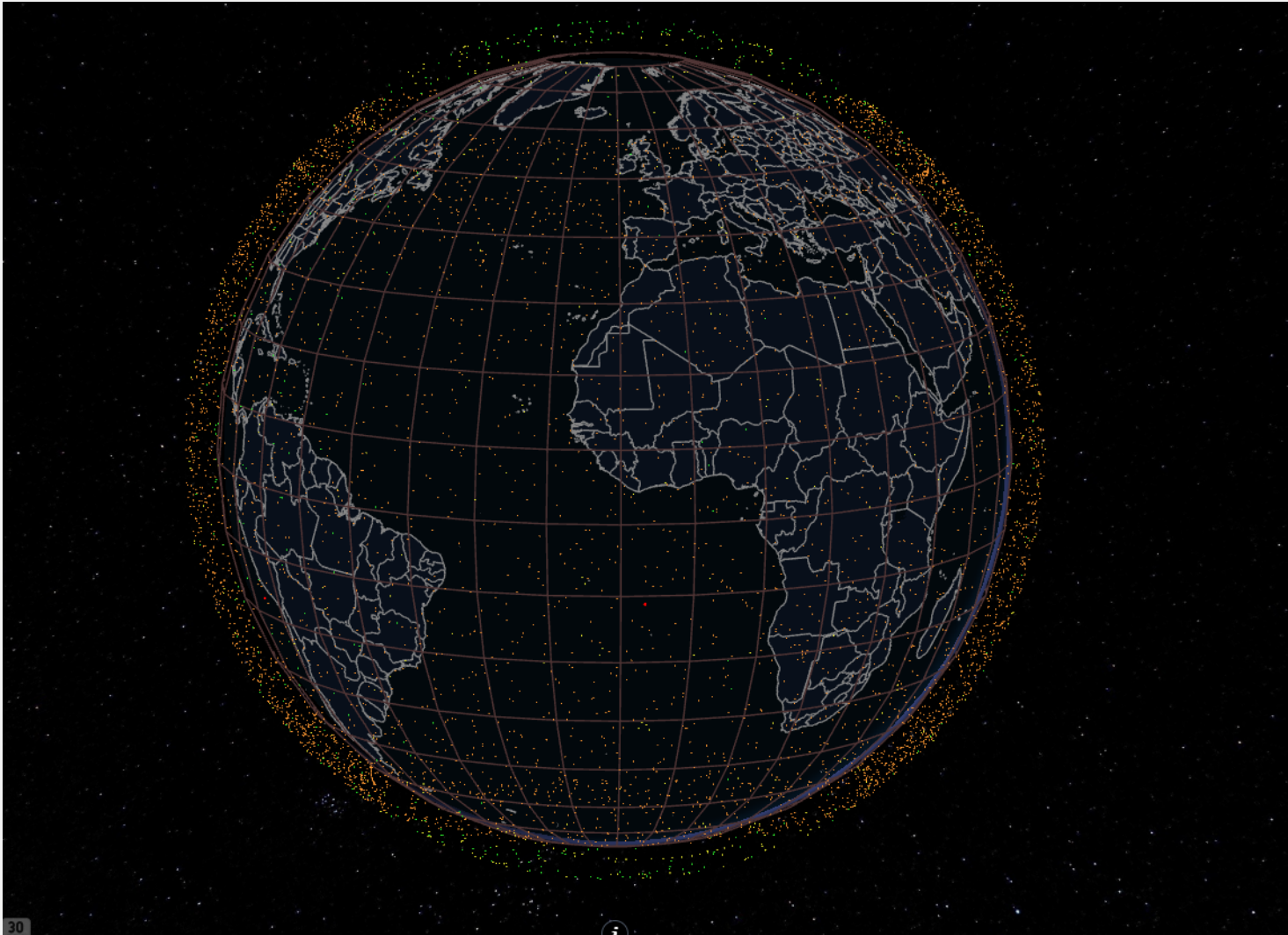


- / To the average citizen, digital services seem like magic!
- / Everything at their fingertips on a smart device.
- / But there's a huge infrastructure supporting them in every country.





/ Interconnection between continents relies fundamentally on submarine cables, which carry data and digital services far beyond national borders.

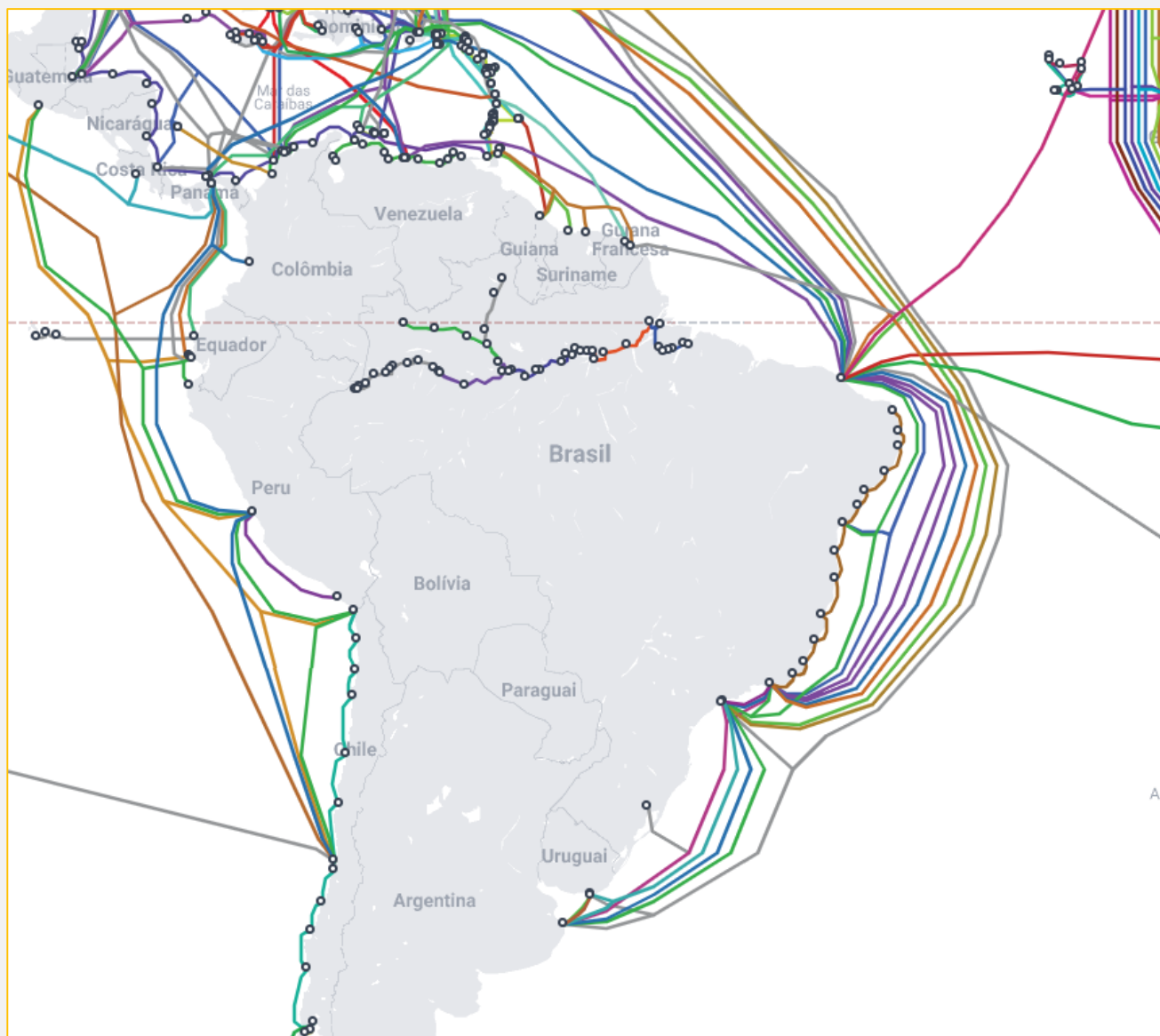


- / We have seen the race for low-Earth orbit satellite constellations.
- / They provide additional capacity for national and international traffic.
- / but they still do not represent a sufficient alternative.



- / It is very important to have a security strategy for submarine cables.
- / Each country's strategy depends directly on its geographical context and particular challenges.





Submarine cables are considered critical infrastructure under Brazilian regulations.

Holders of submarine cables are subject to cybersecurity regulations issued by Anatel.

In the coming days, the government will launch a new Public Policy for Submarine Cables.



Goggle Earth

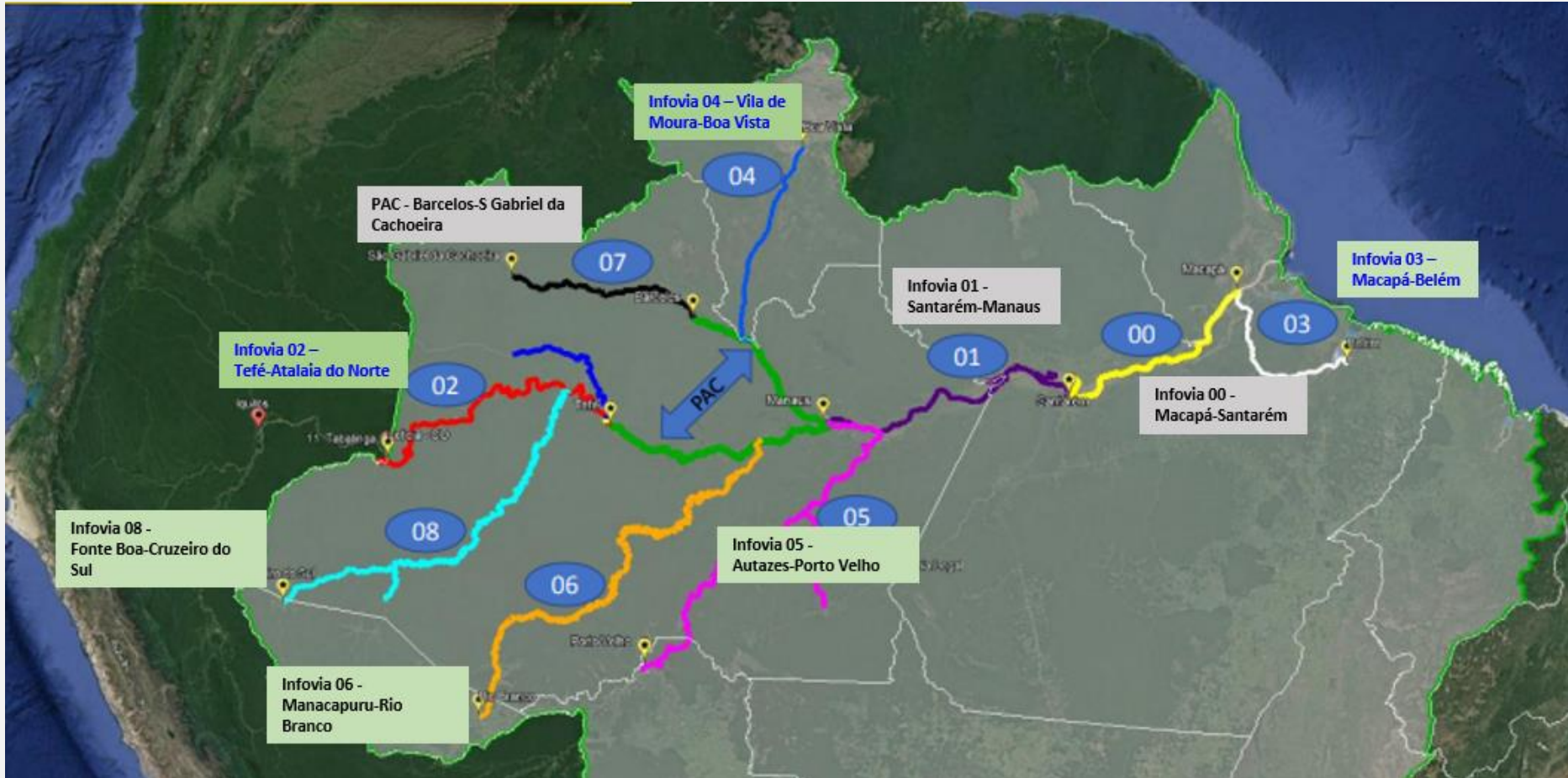
✓ We face a significant connectivity challenge in the Northern Region of the country.

✓ There's lower population density.

✓ A large portion of the municipalities are located within the Amazon rainforest, accessible only by plane or boat.



## A National Project -> “Norte Conectado (North connected)”



/ A national public project that addresses solutions to connectivity problems.

/ Use of resources obtained from the 5G frequency auction.

/ Creation of subfluvial cable information highways along the rivers of the Amazon region.



## A National Project -> “Norte Conectado (North connected)”

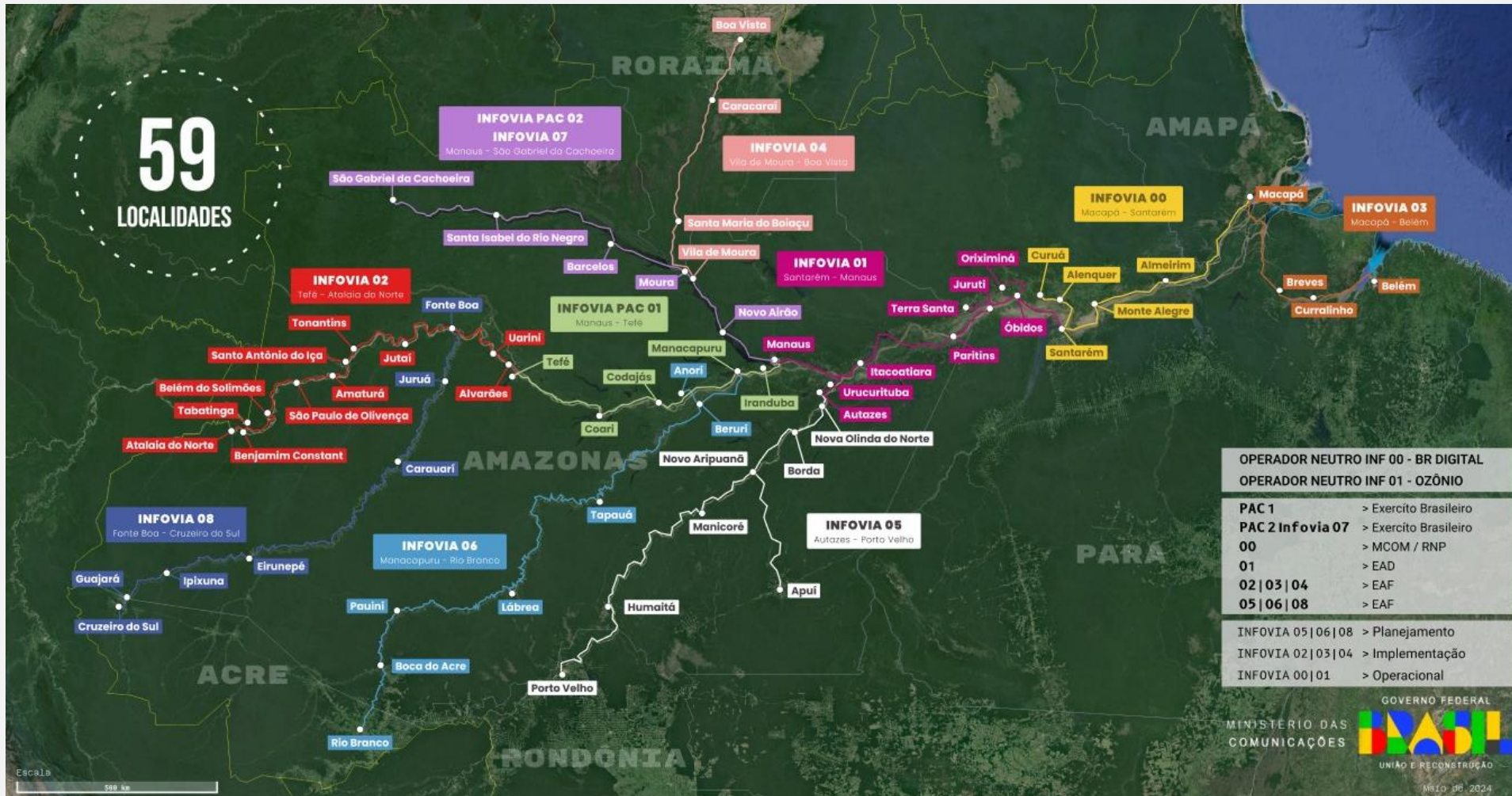


Learn more at: <https://www.gov.br/mcom/pt-br/aceso-a-informacao/acoes-e-programas/programas-projetos-acoes-obras-e-atividades/norte-conectado>

- / The operation and maintenance of the network will be carried out by a consortium.
- / Part of the capacity to public use, and part to private.
- / Benefits to citizens that are now becoming better connected in that Magic Digital Environment.



## A National Project -> “Norte Conectado (North connected)”



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The Connected North will have 8 information highways.

They are twelve thousand kilometers long.

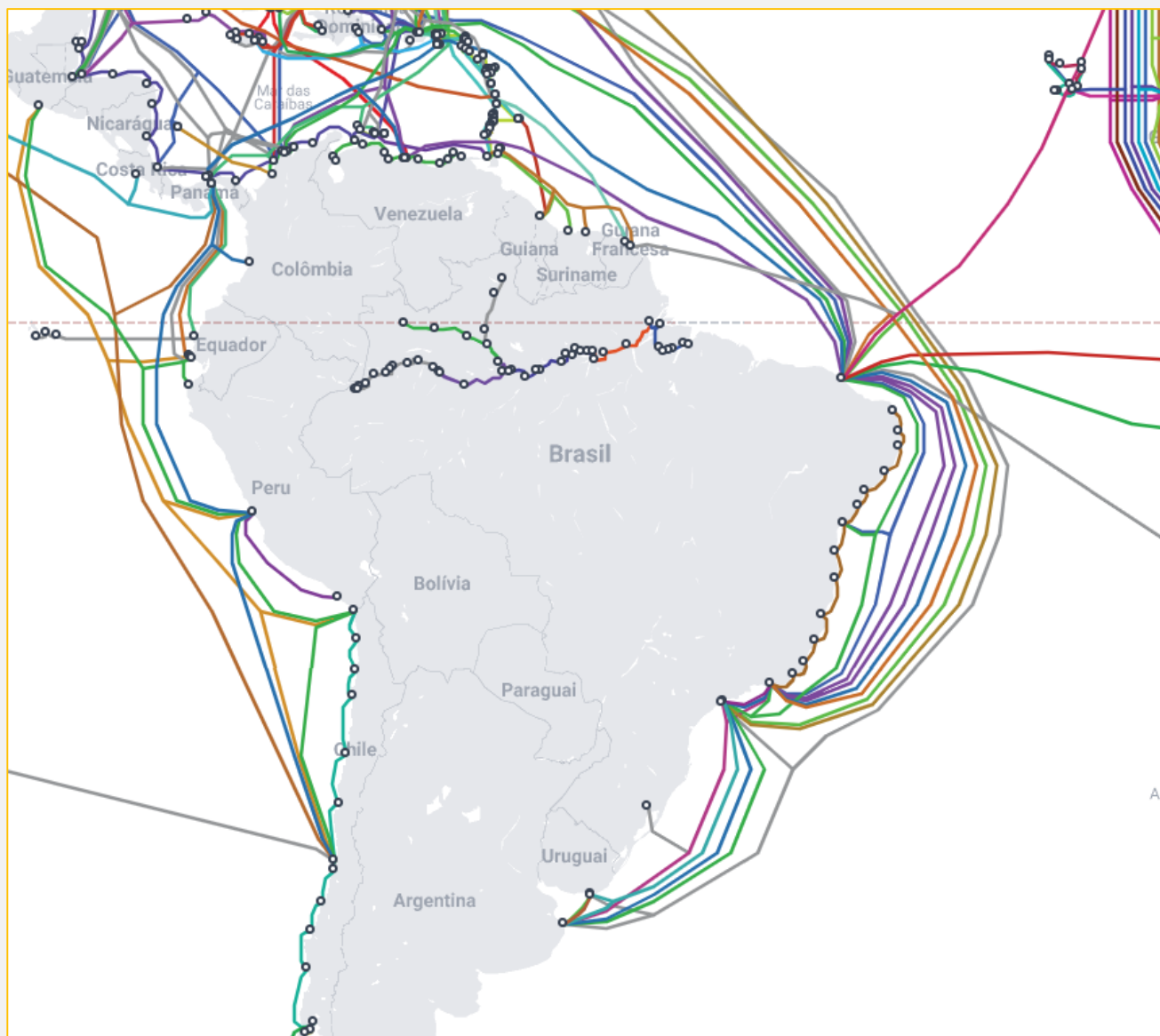
US\$240 million investment.

10 million people will benefit.

59 municipalities served.

68 million trees preserved, since it will not be a typical telecommunications network (buried or pole-mounted).





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