RNP invites you to GLIF2011 in Rio de Janeiro, Brazil 13-14 September, 2011

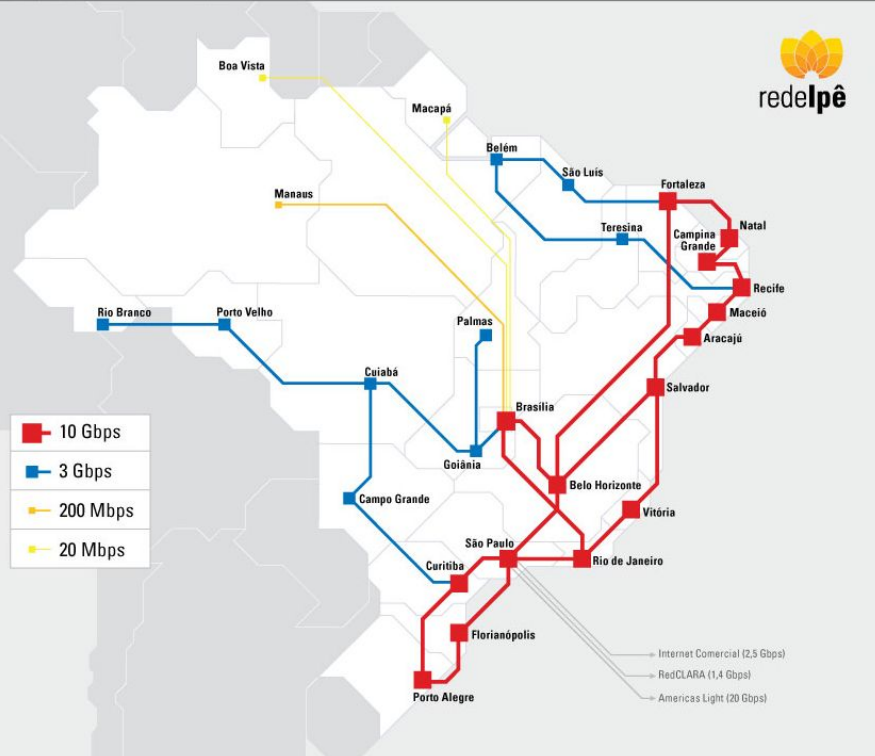# 2011: 20 years of Internet connectivity

RNP

- In 2011 we celebrate the 20th anniversary of the first (experimental) Brazilian connection to the Internet at the heady transmission rate of 4,8 kbps, using a DECnet connection between São Paulo and FermiLab multiplexed between Internet, Bitnet and HEPnet traffic.

- This Internet connectivity reached 3 universities (in Porto Alegre, Rio de Janeiro and São Paulo) and a research centre in Rio de Janeiro.
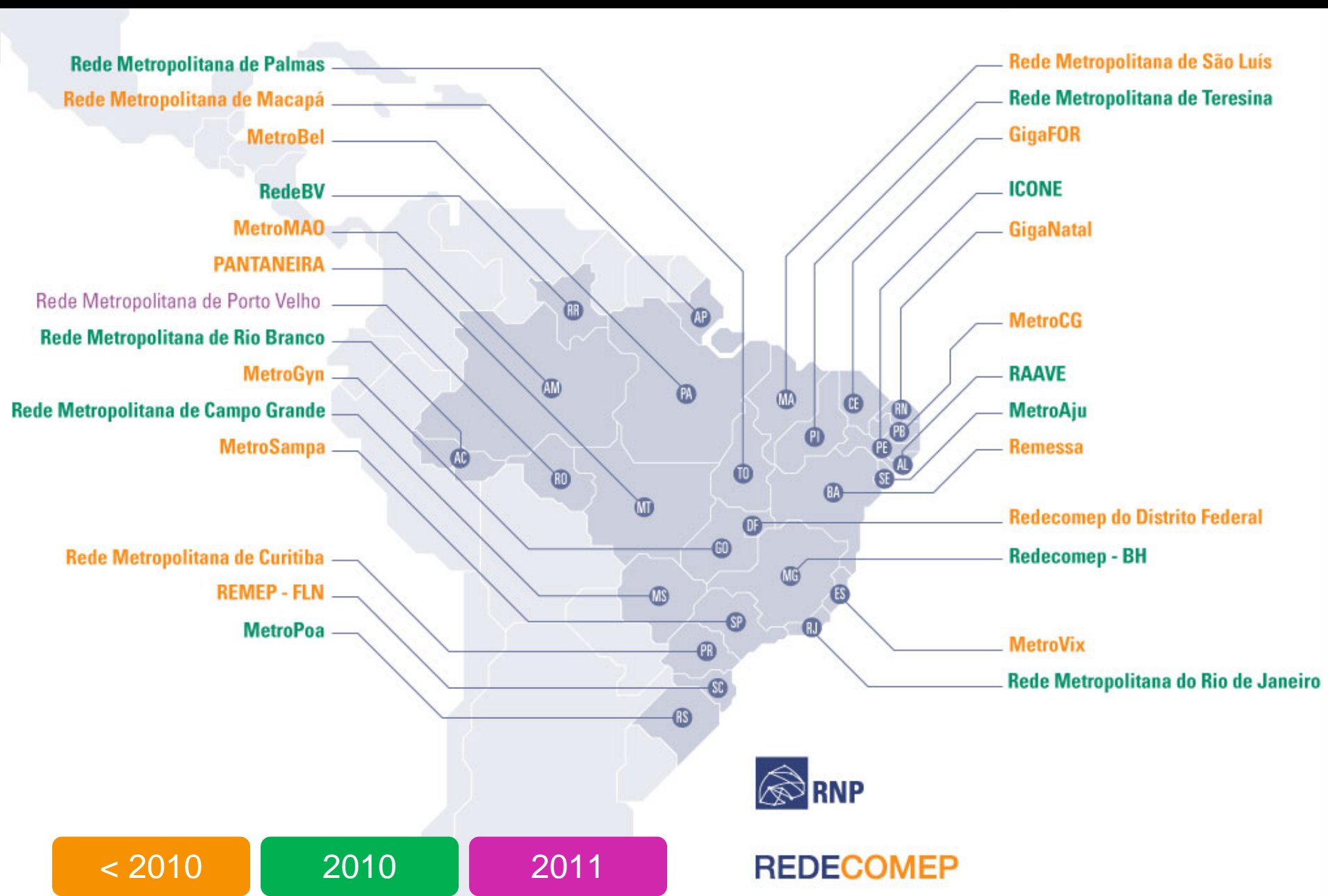
Advances since 1991

RNP in 2010

- national network connecting over 300 institutions,
- 20G+ of international connectivity since 2009,
- a new version of the national backbone network (rede Ipê) to be deployed by RNP in 2010, which connecting 14 of the 27 state capitals at 10 Gbps
- optical metro networks in all state capitals (except one in 2011)
- hybrid packet-circuit network service to over 90% of our university clients by 2011
- support for high-performance digital media transmission,
- permits federation between "Future Internet" experimental activities in Brazil with those in other parts of the world.
- Brazil has participated in Supercomputing BWC (BandWidth Challenge) events since 2004, in GLIF since 2008 and in CineGrid since 2009.

Brazilian connectivity 2010

The maps show the major networks in Brazil

(Ipê Network, GIGA, KyaTera)

and international connections to other countries

(CLARA network, AMLIGHT)

RNP – optical metro networks (Redecomep) in 2010

GLIF2011 venue: Rio de Janeiro

Rio has already been chosen to host the 2014 FIFA World Cup final and the 2016 summer Olympic Games.

Rio is also home to RNP headquarters, as well as the largest of the RNP optical metro networks.

Rio de Janeiro metro network:

Total optical cable: 227,6 Km

Rings and branches:

188,3 Km

Access links:

39,3 Km

GLIF 2011 Venue

GLIF2011 will be held at the Windsor Atlantica hotel on Copacabana beach, which will reopen in December 2010 after extensive renovation.

Brazil: science and technology

- The opportunity will be taken to present some of the Brazilian institutions which are leaders in advanced computing and network technologies and applications
- These may include (amongst others):
    - LNCC (National Lab for Scientific Computing)
    - INPE (National Institute for Space Studies)
    - CPqD (Telecom R&D Centre)
    - Petrobrás (state oil company)
    - CRIA (reference centre for biological collections)
    - leading universities
- Visits to these and other centres may be arranged.