

# BRAZILIAN

# TELECOMMUNICATIONS

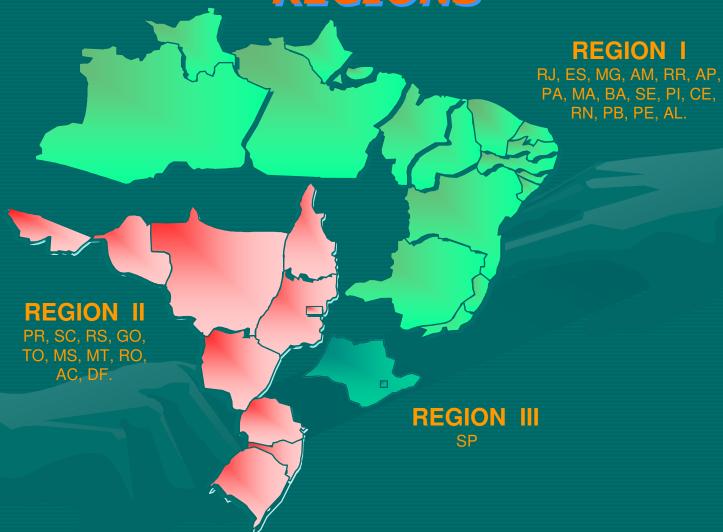


AGENCY

W3C\_Mobile Web Iniciative \_ 2008

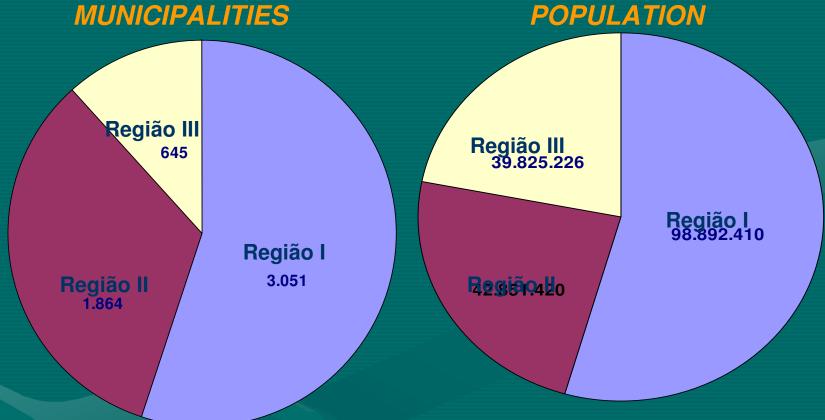


# FIXED AND MOBILE SERVICE REGIONS





# MUNICIPALITIES/POPULATION



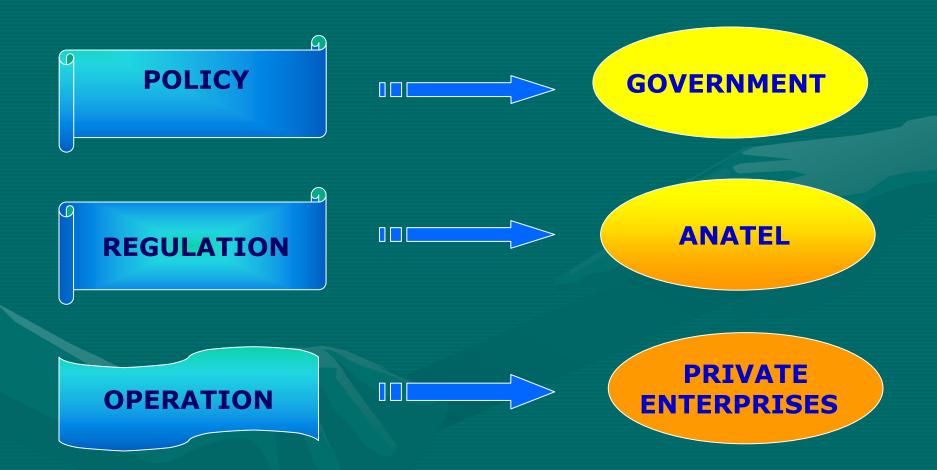
Fonte: IBGE - 2004

5.560 Municipalities 181.569.056 Inhabitants

**Total Brazil:** 



## BRAZILIAN REGULATORY MODEL





# NATIONAL TELECOMMUNICATIONS' AGENCY - ANATEL

- ANATEL is in charge to manage the Telecommunications services
  - Provide access to all the population
  - Promote Technological and industrial development in a competitive environment
  - Expand and use networks and services
  - Harmonic condition with social development of Brazil



### **PUBLIC REGIME**

- Fixed Switched Telephone Service STFC
- Continuity and Ubiquity

#### **PRIVATE REGIME**

- Personal Mobile Service SMP
- Multimedia Communication Service SCM
- Trunking SME
- Freedom of Prices and Minimum Intervention of the Government

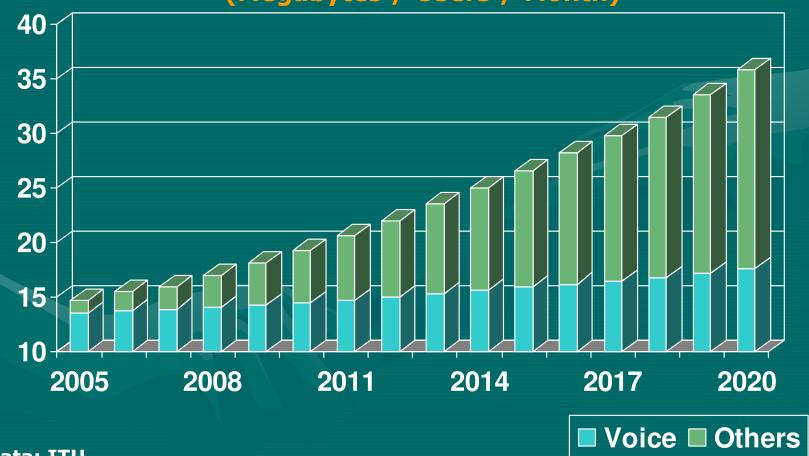
#### **VALUE ADDED SERVICES**

There are not a telecommunications services and are freely explored



# **Demand 2005 - 2020**

# **USER TRAFFIC - CATEGORY B** (Megabytes / Users / Month)

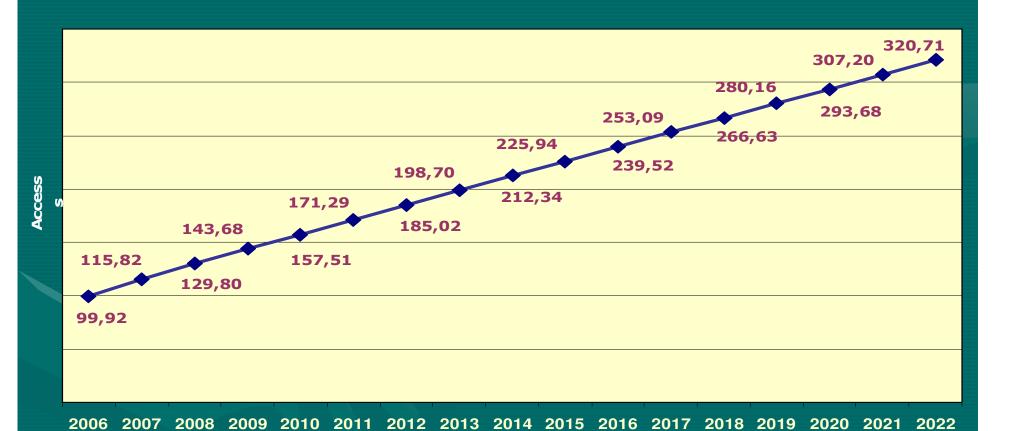


**Data: ITU** 

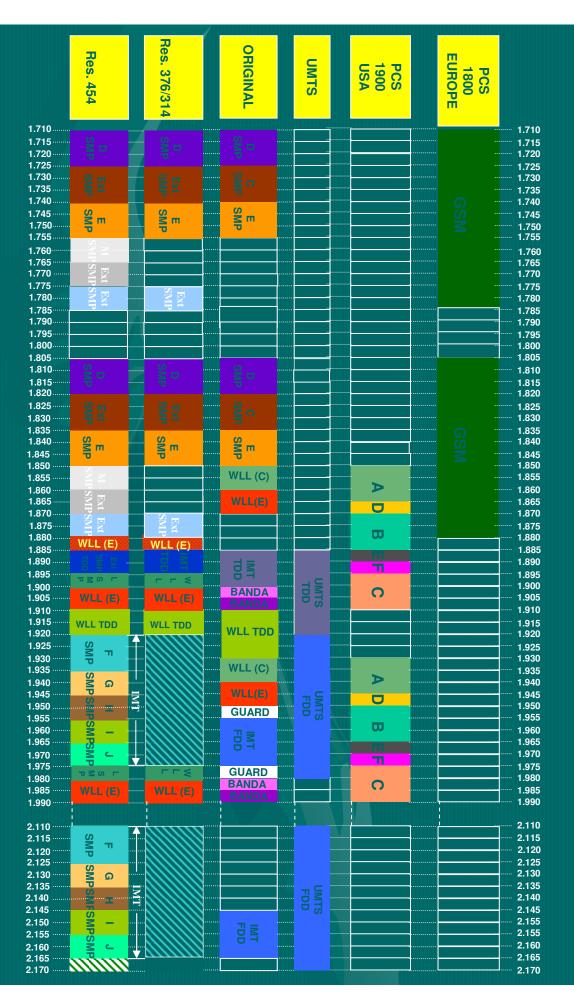
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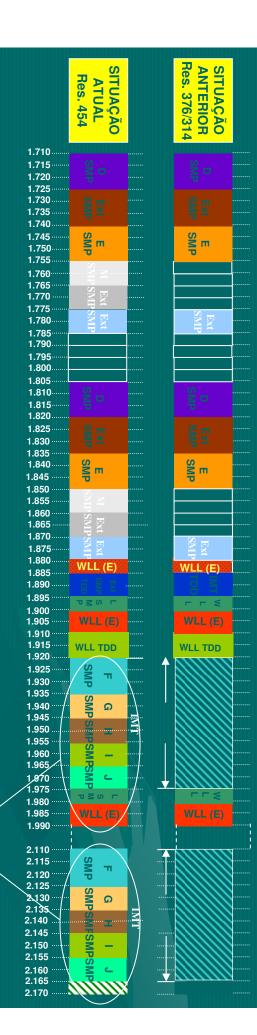


## Access of SMP



# SMP Radio frequencies over 1800 MHZ

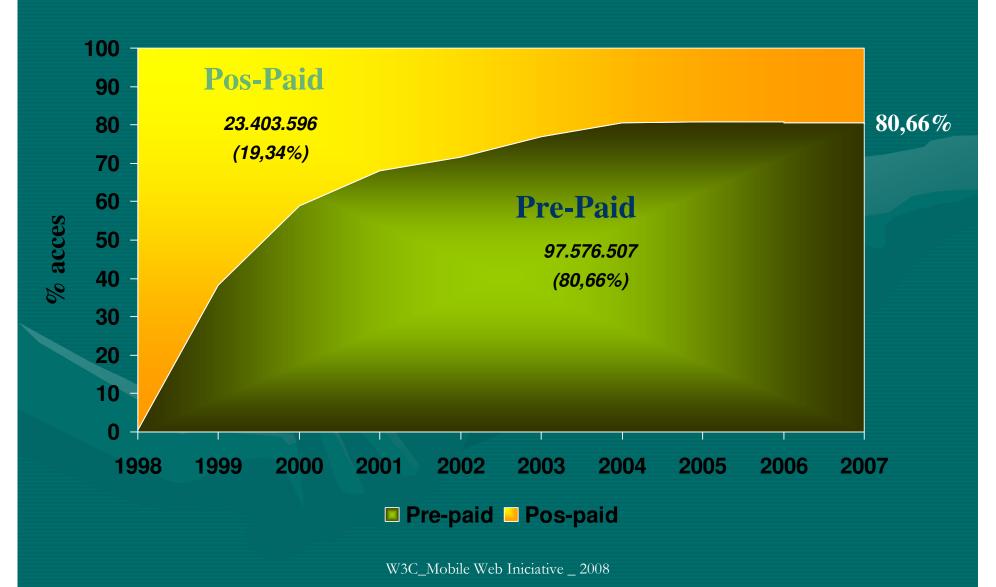




**IMT 2000** 



# Pre paid X pos paid (%)





## **ANATEL Bidding Process of IMT-2000**

#### Before

- 1811 municipalities
   without mobile service
- 2 and 2,5 generation
- 4 competitors of SMP
- Low penetration of broadband services
- Positive revenues localities only

#### After

- Four players in IMT-2000
- 100 % municipalities in 2 years
- 60% 3G in four years
- − ~US\$ 3 billion for license
- ~US\$ 2 billion of negative cash flow (15 years) business plan in municipalities lower than 100 K inhabitants.



## Main Results

- Four players can share the frequency of one SMP in 4.700 municipalities
- One global network in 4.700 municipalities
- 2.700 broadband (3G) mobile networks in municipalities lower than 30 K pop.
- US\$ 2 billion of negative results covered by private enterprises that will build the networks
- Government reduction in a bidding process
- Contribution to cover main citizens with wireless high speed data communication



# Social Benefits

- Each of four competitor has the obligation to build a broadband network in 25% of municipalities under 30.000 pop. chosen to have 3G
- Each user can access all networks to benefit voice and high speed data applications (roaming)
- After 2 years of operation the network could be used by other SMP providers to offer their services (competition)
- Private and State partnership to provide citizenship to all the population with great amount of investment
- Other initiatives in a Wimax bidding process (2,5 GHz and 3,5 GHz band) using analogous scheme



Mobile Communications Manager

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