

The Brazilian Internet Steering Committee – CGI.br Internet Governance Model in Brazil

rev. July 2014

IBGE PNAD 2011



Facts and figures

Population: 195 million 85% living in urban area

5th largest territory in the world

Worldatlas.com 2013

GDP/capita: USD11,640

Tradingeconomics / The World Bank 2011

GDP: USD 2.5 Trillion

Tradingeconomics / The World Bank 2011

8th largest ccTLD: 3.3 million

NIC.br Dez/2013

5,565 municipalities

IBGE Census 2010

81 million Internet users

CGI.br, ICT Households Survey 2012

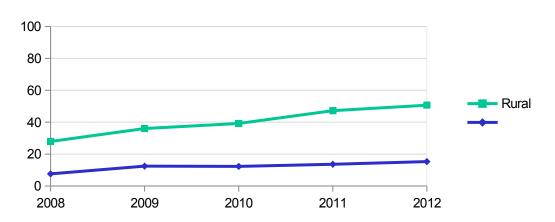
40% HH with Internet access

CGI.br, ICT Households Survey 2012



BrazilFacts and figures

Computer (% Households with computer)

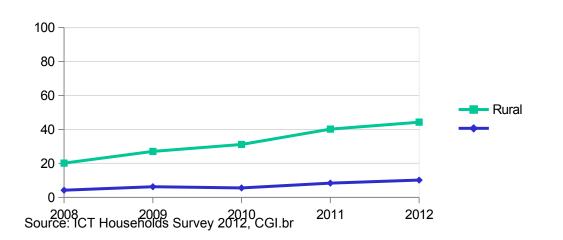


28.1 Million HH with computer

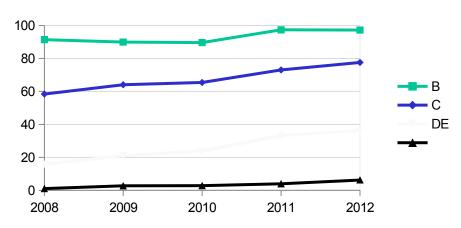
24.3 Million HH with Internet

80.9 Million Internet users (*)

Internet (% Households with Internet access)



Internet (% Households with access by social class)

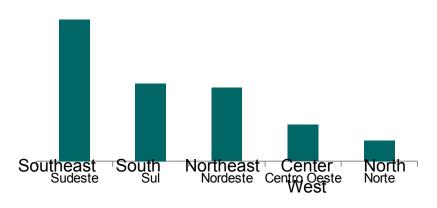


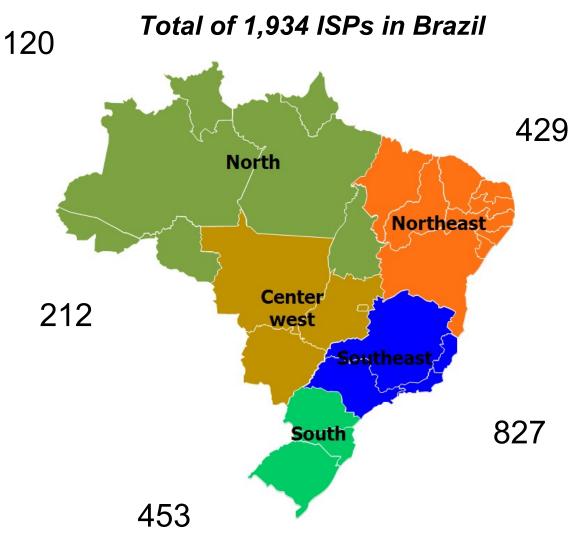


ISP in Brazil

Number of Internet Service Providers

- □ Market distribution: 80% of all connections are provided by 6 large ISPs;
- □ Regional disparity: 43% of all IPSs are located in the Southeast and only 6% in the North region.





Source: ICT Providers Survey 2010, CGI.br



History of CGI.br

Brazilian Internet Steering Committee



GOVERNMENT N.S. CO. 1 2 3 4 5 6 7 8 9 10 11 12 13 14	CIVIL SOCIETY 4 15 16 17 18 19 20 21				
egi.br					
nic.or — :	Administrative Legal Communications				
registro b r cert.b r cetic.b r	ceptro.br W3C				
1 – Ministry of Science and Technology	11 – Access and content providers				
2 - Ministry of Communications	12 - Telecom infrastructure providers				
3 - Presidential Cabinet	13 - ICTs and software companies				
4 - Ministry of Planning, Budget and Management	14 – User companies				
5 - Ministry of Development, Industry and Foreign Trade	15 - Third Sector				
6 - Ministry of Defense	16 - Third Sector				
7 – National Telecommunications Agency	17 - Third Sector				
8 - National Council for Scientific and Technological Development	18 - Third Sector				
9 - National Forum of Estate Science and Technology Secretaries	19 – Academia				
	20 – Academia				
10 – Internet expert	20 - Academia				

1995

□ 9 representatives from the **government**

□4 representatives from the **private sector**

2003

□ 4 representatives from the **non-profit sector**

□3 representatives from the scientific and academic community



Created in 1995, the Internet Steering Committee in Brazil - CGI.br coordinates and integrates Internet services in Brazil, promoting technical quality, innovation and dissemination of the use of Internet services:
☐ Proposes policies and procedures related to the regulation of Internet activities
☐ Recommends standards for technical and operational procedures
☐ Establises strategic directives for the use and development of the Internet
☐ Promotes studies and technical standards for network and Internet security
□ Coordinates the allocation of Internet addresses (IPs) and registration of domain names under the ccTLD ".br"
☐ Promotes specialized research on the use of ICTs
☐ Collects, organizes and disseminates information on Internet services, including the production of indicators and statistics.



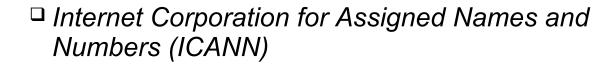
Milestones in the governance of the Internet in Brazil

- □ OCT 1988 → First Bitnet Connection
- □ APR 1988 → Registration of ccTLD ".br"
- □ JAN 1991 → First Internet TCP/IP Connection
- □ MAY 1991 → Definition of the Brazilian DNS Structure
- □ JUNE 1992 → Eco '92 motivates first direct links to the Internet
- □ JAN 1995 → Start of the Commercial Operation
- □ MAY 1995 → Creation of the CGI.br (Brazilian Internet Steering Committee)
- □ MAY 1995 → Norm 4 separates Internet as AVS from telecom regulations
- □ OCT 1997 → Full Informatization of "Registro.br"
- □ NOV 1997 → Installation of the First NAP in São Paulo
- □ **DEZ 2005** → Creation of the NIC.br (Brazilian Network Information Center)



Participation in International Foruns *CGI.br / NIC.br*







□ Internet Governance Forum & regional IGF forums



□ International Telecommunication Union (ITU);



 Organisation for Economic Co-operation and Development (OECD);



Cultural Organization

 United Nations Educational, Scientific and Cultural Organization (Unesco);

□ IETF and other forums and technical organizations



Legal Framework in Brazil

Law, resolutions and legislation

Sanctioned on Apr.23, 2014

- □ The Civil Rights Framework for the Internet
- □ Privacy and Personal Data
- □ Information Access Act
- CGI.br's Principles for the Governance and Use of the Internet
- □ W3C Open Data Principles

Approved by consensus in April/2009



Principles for the Governance and Use of the Internet

CGI.br/Res/2009/03/P

Freedom, privacy and human rights : The use of the Internet must be driven by the principles of freedom of expression, individual privacy and the respect for human rights, recognizing them as essential to the preservation of a fair and democratic society.
Democratic and collaborative governance : Internet governance must be exercised in a transparent, multilateral and democratic manner, with the participation of the various sectors of society, thereby preserving and encouraging its character as a collective creation.
Universality : Internet access must be universal so that it becomes a tool for human and social development, thereby contributing to the formation of an inclusive and nondiscriminatory society, for the benefit of all.
Diversity : Cultural diversity must be respected and preserved and its expression must be stimulated, without the imposition of beliefs, customs or values.
Innovation : Internet governance must promote the continuous development and widespread dissemination of new technologies and models for access and use.



Principles for the Governance and Use of the Internet

CGI.br/Res/2009/03/P

Neutrality of the network : Filtering or traffic privileges must meet ethical and technical criteria only, excluding any political, commercial, religious and cultural factors or any other form of discrimination or preferential treatment.
Unaccountability of the network : All action taken against illicit activity on the network must be aimed at those directly responsible for such activities, and not at the means of access and transport, always upholding the fundamental principles of freedom, privacy and the respect for human rights.
Functionality, security and stability : The stability, security and overall functionality of the network must be actively preserved through the adoption of technical measures that are consistent with international standards and encourage the adoption of best practices.
Standardization and interoperability : The Internet must be based on open standards that facilitate interoperability and enable all to participate in its development.
Legal and regulatory environments : The legal and regulatory environments must preserve the dynamics of the Internet as a space for collaboration.



About NIC.br

Brazilian Internet Steering Committee



2005

1995



Brazilian Network Information Center















About NIC.br

The Brazilian Network Information Centre - NIC.br is a private, civil, non-profit organization, created to implement CGI.br 's decisions.	
 □ Manages the registry and maintenance of domain names under the ccTLD ".br", a allocation of Autonomous System Numbers (ASN), IPv4 and IPv6 addresses; □ Ensures the treatment of and the response to security incidents; 	and
Develops technological projects to enhance the Brazilian network infrastructure;	
□Conducts specialized research, producing and publishing indicators, statistics and strategic information on the development of the Brazilian Internet;	t
☐ Conducts studies and recommend procedures, norms and technical and operatio standards for the web;	nal
☐ Provides technical and operational support to LACNIC, Internet Address Registry	for
Latin America and the Caribbean.	



Sustainability model





2005

Canadá (.ca)

Suíça (.ch)

Estados Unidos (.us)

Tokelau (.tk) 17.725.853 Alemanha (.de) 15.505.360 Reino Unido (.uk) 10.460.115 China (.cn) 7.808.360 Países baixos (.nl) 5.278.217 Rússia (.ru) 4.674.401 União Europeia (.eu) 3.729.017 Brasil (.br) 3.251.610 8th largest domain Argentina (.ar) 2.900.000 Austrália (.au) 2.710.769 França (.fr) 2.639.636 name database ".br" Itália (.it) 2.586.640 Polônia (.pl) 2.457.125 2,103,345

1995



Brazilian Network Information Center



REGISTRO.br

1.828.675

1.795.635

Brazilian Domain Name Registry Authority



http://www.registro.br/



REGISTRO.br

Brazilian Domain Name Registry Authority



- □ **REGISTRO.br** is responsible for managing the registry and maintenance of domain names under the ccTLD ".br";
- ☐ Services and projects:
 - Operation of Domain names registry;
 - Operation of the DNS and DNSSEC services for the ".br" domain;
 - Allocation of Autonomous System Numbers (ASN), IPv4 and IPv6 addresses in Brazil;
 - Provision of technical and operational support to LACNIC, Internet Address Registry for Latin America and the Caribbean..



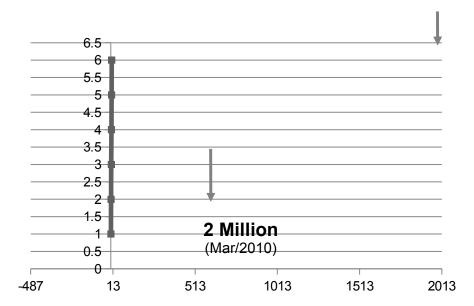
REGISTRO.br

Brazilian Domain Name Registry Authority

registrobr

http://www.registro.br/ 3.3 Million

(Dez/2013)



Country Code Top Level Domain

Rank ccTLD Domínios Ref. Fonte 1 Tokelau (.tk) 20.679.586 dez/13 http://statdom.ru/global#27:attribute=tk 2 Alemanha (.de) 15.589.983 dez/13 http://www.denic.de/ 3 Reino Unido (.uk) 10.595.948 dez/13 http://db.nominet.org.uk/ 4 China (.cn) 9.609.571 dez/13 http://www1.cnnic.cn/lS/CNym/CNymtjxxcx 5 Paises Baixos (.nl) 5.385.092 dez/13 http://www.sidn.nl/ 6 Rússia (.ru) 4.913.766 dez/13 http://cctld.ru/ 7 União Européia (.eu) 3.744.169 dez/13 http://www.eurid.eu/ 8 Brasil (.br) 3.309.240 dez/13 http://registro.br/estatisticas.html 9 Argentina (.ar) 2.900.000 dez/13 http://www.latinoamericann.org/ 10 Austrália (.au) 2.754.792 dez/13 http://www.ainic.fr/en/ressources/ 12 Itália (.it) 2.630.062 dez/13 http://www.nic.it/ 13 Polônia (.pl) <td< th=""><th></th><th></th><th></th><th></th><th></th></td<>					
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16 Suiça (.ch) 1.831.635 dez/13 https://www.nic.ch/reg/cm/wcm-page/	15	Estados Unidos (.us)	1.854.323	dez/13	http://www.whois.sc/internet-statistics/
	16	Suiça (.ch)	1.831.635	dez/13	https://www.nic.ch/reg/cm/wcm-page/

Generic Top Level Domain

Rank	gTLD	Domínios	Ref.	Fonte
1	.com	112.215.620	dez/13	http://www.whois.sc/internet-statistics/
2	.net	15.224.373	dez/13	http://www.whois.sc/internet-statistics/
3	.org	10.397.307	dez/13	http://www.whois.sc/internet-statistics/
4	.info	5.927.250	dez/13	http://www.whois.sc/internet-statistics/
5	.biz	2.649.154	dez/13	http://www.whois.sc/internet-statistics/

Source: Registro.br, 2013



CERT.br

Brazilian National Computer Emergency Response Team



http://www.cert.br/

□ Created in 1997 to act as the national focal point to handle computer security incident reports and to perform activities related to networks connected to the Internet in Brazil.

CERT.br

Security Incident Handling

- Reporting
- Support
- Statistics

Capacity Building and Awareness

- Training courses
- Presentations
- Documents & Reports
- Expert Meetings

Trend Analysis

- Honeypots
- Spampots
- Honeynet.br



□ Videos & Guides













egi.br

CERT.br

Brazilian National Computer Emergency Response Team



http://www.cert.br/

- □ *CERT.br* is the Brazilian National Computer Emergency Response Team, maintained by NIC.br;
- □ Develops analytical projects on Internet attacks' trends, with the goal to better understand the threats in the Brazilian Internet space:
 - Distributed Honeypots: to increase the capacity of incident detection and event correlation;
 - SpamPots: to obtain details about the abuse of the Internet infrastructure by spammers;
 - CERT.br is a Software Engineering Institute Partner and is licensed to deliver in Brazil the following CERT® Program courses: Overview of Creating and Managing Computer Security Incident Response Teams / Fundamentals of Incident Handling /Advanced Incident Handling for Technical Staff.

CETIC.br



Center for Studies on Information and Communication Technologies



http://www.cetic.br/

As part of CGI.br's goals, CETIC.br aims to collect and disseminate information on Internet services in Brazil, through the following activities:

- Conduct nationwide ICT Surveys to produce ICT-related indicators and statistics;
- Measure the progress of the use of ICTs in Brazil;
- Monitor and assess social-economic impact of ICTs;
- Promote the use of ICT indicators by governmental agencies for policymaking and academic research purposes;
- Cooperation with international organizations for methodological definitions and ICT indicators harmonization.
- Enable cross-national studies comparing Brazil and other countries' data.



CETIC.br

Center for Studies on Information and Communication Technologies



http://www.cetic.br/

International methodological frameworks

Projects for Monitoring the Information Society







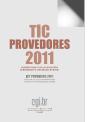




ICT statistics for better information societies policies











Monitoring targets





Construyendo sociedades digitales inclusivas e innovadoras





Regional Centre of Studies for the Development of the Information Society

Center for Studies on Information and Communication Technologies

CETIC UNESCO ©
Regional Center of Studies
for the Development of the
Information Society

Latin America and Portuguese speaking African countries

2005

† ԲոլդՊլ

2012



Brazilian Network Information Center





Organização das Nações Unidas para a Educação, a Ciência e a Cultura



Regional Centre of Studies for the Development of the Information Society under the auspices of UNESCO



CEPTRO.br

Center for Study and Research in Network Technology and Operations

Centro de Estudos e Pesquisas em Tecnologia de Redes e Operações

http://www.ceptro.br/

- □ CEPTRO.br is responsible for services and projects that aim to improve the quality of Internet services and the Internet infrastructure in Brazil.
- □ Development of technological projects:
 - PTT Metro (Brazilian Internet Exchange Points Project
 - IPv6.br (IPv6 dissemination in Brazil)
 - NTP.br (Brazilian Legal Time over Internet)
 - Zappiens.br

















CEPTRO.br

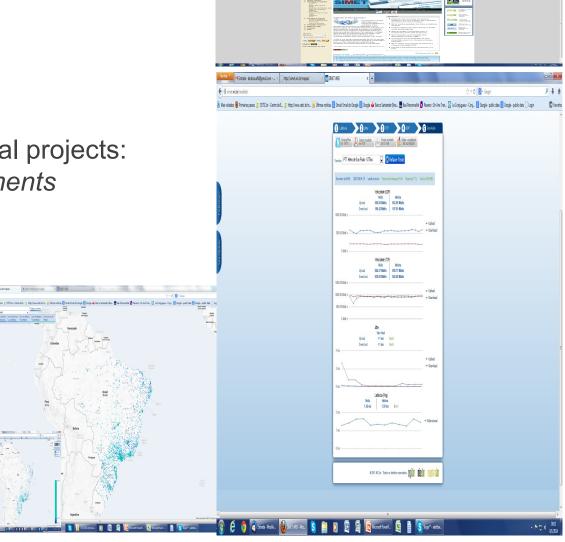
Center for Study and Research in Network Technology and Operations

ceptro br

Centro de Estudos e Pesquisas em Tecnologia de Redes e Operações

http://www.ceptro.br/

- □ Development of technological projects:
 - Internet Quality Measurements
 - ∘ INOC-DBA
 - VoIP Peering
 - Web Census Project



egi.br

W3C.br

The W3C Brazilian Office



- ☐ The W3C Brazilian Office began its operation in 2007 with the following objectives:
 - To disseminate the culture of adoption of web standards for the web development;
 - To promote and to demonstrate the tools and standards developed by W3C;
 - To create a forum of participation of W3C.br members and community interested in Web standards;
 - To propose policies and procedures related to the regulation of Internet use;
 - To recommend technical standards and operational procedures for the development of the Internet in Brazil.

egibr

W3C.br

The W3C Brazilian Office





- ☐ International consortium that aims to bring the Internet to its full potential through the establishment of standards and guidelines.
 - o HTML, XML, XHTML and CSS standards.
 - Open data.
 - Web accessibility.
 - o Open Government Data.

Vision: "One Web, Open to All"

Mission: "Take the Web to its full potential"

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http://www.w3c.br/





22nd International World Wide Web Conference

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Web impact
Human communication
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Thank You!

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