



Welcome to the ICANN53 NextGen@ICANN Presentation

Development and Public Responsibility Department (DPRD) Focus Areas

Supporting Education and Academic Outreach Programs include:

- Online Learning
 Platform: ICANN Learn
- Development of Educational Materials
- Supporting University Outreach

Supporting the Next Generation Programs include:

- Fellowship Program
- NextGen@ICANN

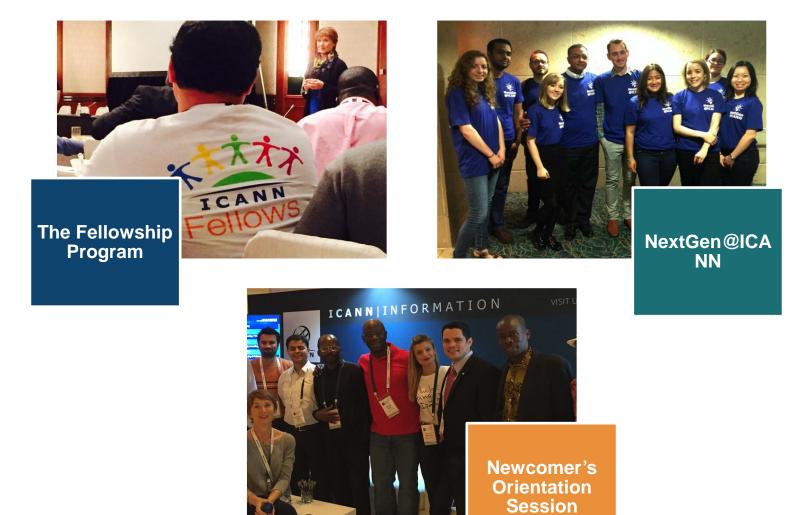
- Newcomer Program
- Supporting remote participation and involvement

Participation in Global Internet Cooperation and Development Programs include:

- Collaborations with local, national, regional, and international organizations
- NETmundial Initiative



Supporting the Next Generation Current Work





NextGen@ICANN Requirements

1) Living or studying in the region of the respective ICANN meeting and between the ages of 18 and 30.

Note: for those over the age of 30, be sure to apply for the ICANN Fellowship program if you meet the Fellowship criteria.

(http://goo.gl/KAkKQN)

2) Able to spend the time allotted for the ICANN meeting actively participating and in attendance at all required events, as noted by the organizers of NextGen.

3) Interested in Internet Governance, the future of the Internet, and other topics covered at the ICANN meeting.

> 4) Willing to present a 5-10 minute project at the meeting. This could be a presentation of research you've done, an activity you are doing related to ICANN's work, a website you are affiliated with that is related to ICANN's work, a thesis project you're working on, etc. This presentation will be attended by the ICANN stakeholder community as well as NextGen members.



4

About NextGen@ICANN

Share why this ICANN experience would be valuable to them individually as well as for their university, region, etc.

Exhibit interest in ICANN and the Internet space through examples of current work, activities, public dialogue they are aware of through their studies, or research on the web Provide an optional 1-3 minute video expressing their view on an Internet topic, i.e. personal security. This video is uploaded via a secure form visible only to the selection committee, and will not be shared with the public.

Prospective members of NextGen@ICANN



About NextGen@ICANN

- ICANN provides travel and accommodations as well as a customized ICANN Meeting experience.
- Members meet executives, community members, staff, company leaders, and many others.
 Great for networking and getting involved!
- Apply for the next regional session at <u>bit.ly/ngicann</u>





Meet The Presenters

- Agustina Callegari
- Mark W. Datysgeld
- Lucas Moura
- Alexandre Arns Gonzales
- Encel Sanchez
- Vinicius Linden
- Matías Jackson

- Matheus Souza
- Bruno M. Duarte
- Raphael Silveiras
- Marilia Monteiro
- Margareth Kang
- Jazmín Acuña
- Mariana Valente
- Sarah Rodriguez



First Presentation By Agustina Callegari





Intellectual Property and the Digital Revolution: Then, Now, Tomorrow

by Mark W. Datysgeld Researcher at São Paulo State University, Brazil

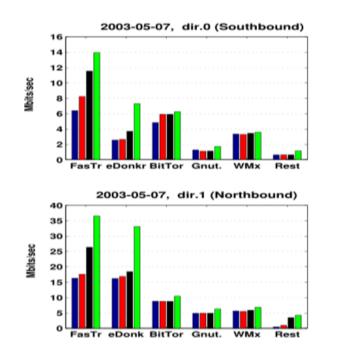
Then – The rise of MP3

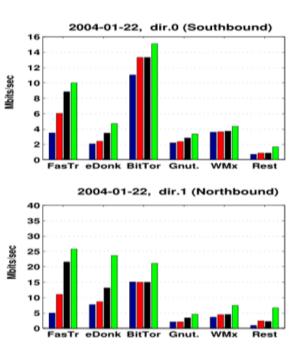
- **1994:** TRIPS Agreement (Worldwide)
- 1995: MP3 format popularized
- 1997: Winamp released
- **1998:** Portable MP3 players released
- 1998: DMCA signed (USA)
- 1999 Napster released



Then – Litigation as a solution

- The *Recording Industry Association of America* sued (or threatened to sue) over **30 thousand individuals**...
- ... but Internet file sharing traffic continued to grow.

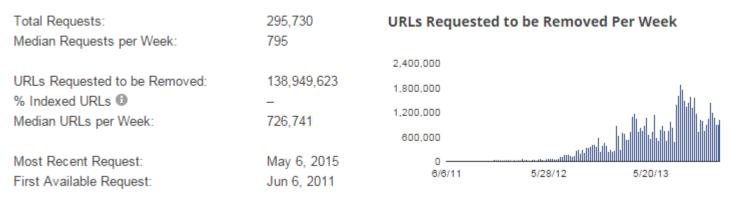




Source A: https://www.eff.org/wp/riaa-v-people-five-years-later Source B: "Is P2P dying or just hiding?" by Karagianni, Broido, Brownlee, Faloutsos kc claffy; 2004

Now – The Industry strikes back

• The *RIAA* and *British Phonographic Industry* removed **200** million links off Google as of 2015.



Reporting Organization: BPI (British Recorded Music Industry) Ltd

- 138 million takedowns requested by the BPI alone since 2011.
- ... but music piracy remained as high.

Source: http://torrentfreak.com/music-industry-reports-200-millionth-pirate-link-to-google-150507/

Now – The return of the Industry

• According to the *European Commission's Joint Research Centre*, shutting down pirate sites is also **ineffective**.

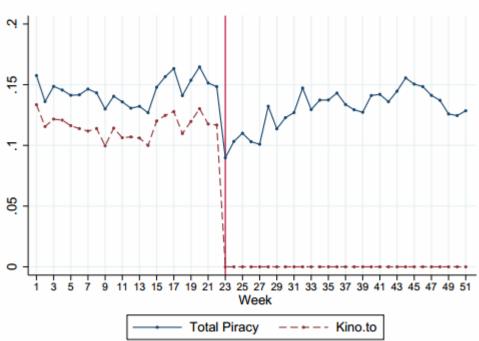


Figure 2: Evolution of Online Movie Streaming Piracy

Source: "Online Copyright Enforcement, Consumer Behavior, and Market Structure" by Aguiar, Claussen, Peukert; 2015

Tomorrow – A question

If we can't even solve the digital music problem, how will we deal with more complex issues that are bound to arise in the future?

I propose that we must **plan**, rather than **react**.

Tomorrow – 3D Printing and us

• Is 3D printing viable?

- The technology is not new, it was simply too expensive to be used outside of highly specialized contexts.
- Since the release of the relatively cheap *MakerBot* in 2009, the technology has been spreading at a significant rate.
- By 2013, 30.000 MakerBots had already been deployed around the world.
- ... and we are only discussing a single brand of 3D printer.



Source: http://www.makerbot.com/education

Some of the questions we must ask

- Planning for the future:
 - Who will own the 3D blueprints?
 - Conglomerates?
 - Which international institution will regulate and mediate disputes?
 - The WTO?
 - Will we repeat the suboptimal cycle of fighting back piracy that digital music went through?
 - Would that really be effective?
 - And many, many other questions.

Thank you for your attention!

Datysgeld, Mark William

Researcher at São Paulo State University, Brazil Programa de Pós-graduação em Relações Internacionais San Tiago Dantas

Contact: markwd@protonmail.com



Lucas de Moura

Anti-Fraud / CSIRT / LUCAS.MOURA@AXUR.COM





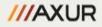




"In the educational perspective we cannot call anyone victim of cybersecurity"



Offline? Everything is online 😳



How to make teenagers and kids aware of risks that exists when using the internet?



How to make teenagers and kids aware of risks that exists when using the internet, without becoming something boring and with a huge load of do's and don'ts?



How can we effectively teach someting that will be updated as the flow of information keeps going?



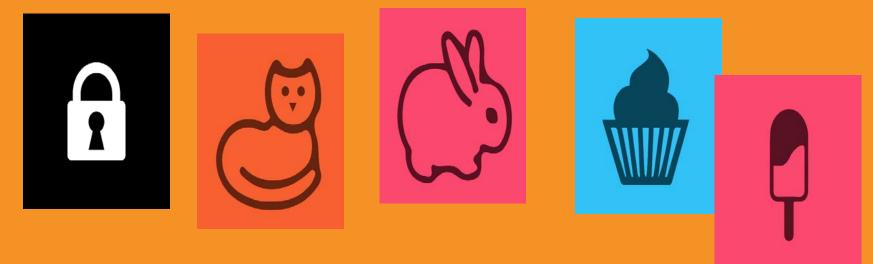




How runs this workshop?







Building the intermet



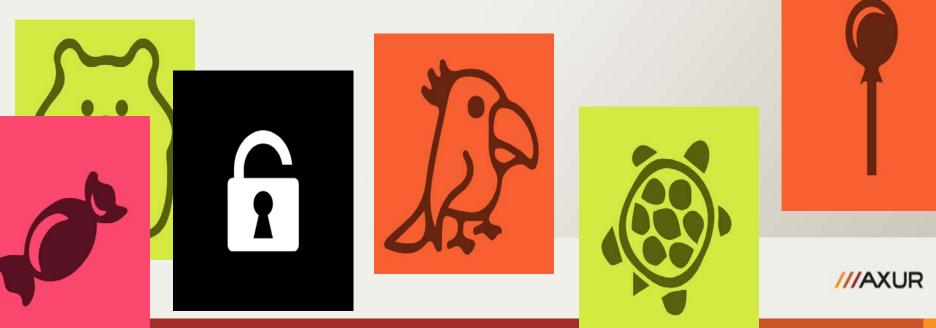








Cybersafety







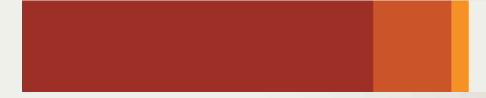


Phase 2

- Prototype
- Axur's support
- Phase 1 Graphical material
 - Reach more kids
 - Make the workshop smooth-running
 - Feedback
 - Creative commons
 - Partnership
- Phase 3 To infinity and beyond 🙂



Make the next generation of internet users aware of everything to create a **larger**, **better** and **fair information society**.

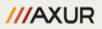




Thank you!

Questions?





Lucas de Moura

Anti-Fraud / CSIRT / LUCAS.MOURA@AXUR.COM





Internet Governance: the construction of the 'Information Society' and its consequences for the international order

Author: Alexandre Arns Gonzales Supervisor: Alfredo Alejandro Gugliano

> Buenos Aires 2015



WSIS (2003 and 2005):

 \rightarrow "10. We are also fully aware that the benefits of the information technology revolution are today **unevenly distributed** (...) (WSIS, 2003);

 \rightarrow "8. We recognize (...) the problem in bridging the digital divide, which will require (...) investments in **ICT infrastructure and services**, and capacity building, and transfer of technology over many years to come" (WSIS, 2005);

 \rightarrow "19. (...) in addition to the public sector, financing of ICT infrastructure by the private sector has come to play an important role (...) **North-South flows** and **South-South cooperation**" (WSIS, 2005).



2013-2014 - Internet World Stats 60.00% 50,00% 40,00% Internet Users/Country Popula-30,00% tion 20,00% 10.00% 0.00% Brasil China India

"Big Data":

→ Collect, stock
 and processe
 data;
 → Forecasting
 analysis;

→ How companies are competing for emergent markets? What are their strategy?

→ How this tailor the relation between the developed and developing economies?



Thank you for your attention

The Internet Ecosystem And Our Participation

What is the Internet? - How it work? How to participate?

Encel Sánchez Venezuela <u>encels@gmail.com</u> @Encels

Internet : What is?

"The Internet is a global system of interconnected computer networks that use the standard Internet protocol suite (TCP/IP) to link several billion devices worldwide. It is a network of networks"

FTP - P2P - SSH - VoIP - SMTP

World Wide Web (WWW).

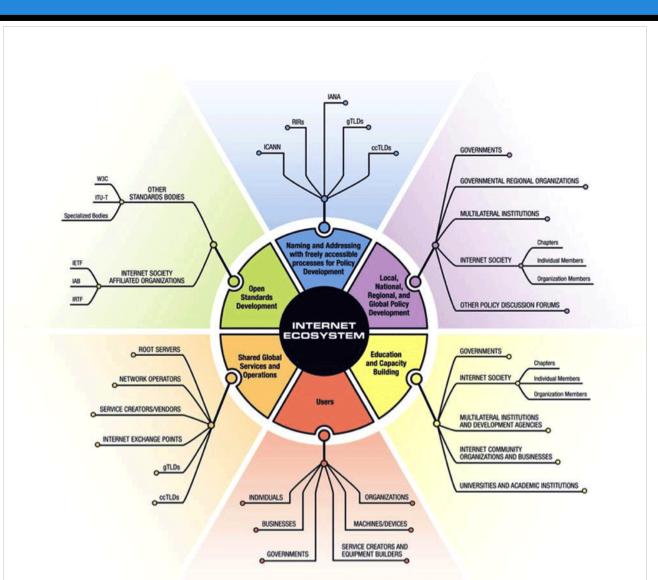
The most famous Internet service, the window for display "the pretty" of Internet.







The Internet Ecosystem



Opportunities for participation

- Local discussions
- IETF
- Internet Governance Forum
- ICANN
- Internet Society
- LACNIC
- Social Networks

How to Participate?

- 1. Next Generation Leaders (NGL) Programme Internet Society
 - a. IGF Ambassadors Programme (Internet Society)
 - b. Fellowship to the Internet Engineering Task Force (IETF) Programme.
 - c. ELearning: Shaping the Internet History and Futures

http://www.internetsociety.org/what-we-do/education-and-leadership-programmes

- 2. LACNIC Fellowship program
 - a. LACNIC, LACNOG, LACIGF.

How to Participate?

3. South School on internet governance

http://www.gobernanzainternet.org/en/

4. ICANN

a. ICANN Meeting Fellowships

https://fellowship.icann.org/applicant/

b. The NextGen@ICANN Program

The Secret: Networking

MAL: Meet, Ask, Learn...







Why small ISPs matter

Vinicius Linden





Few dozens of ISPs

More than 2000 ISPs







iones

Rio Grande do SulPorto Alegre

Rivera

Facuarembó

Cerro Largo

Image Landsat © 2015 Google Data SIO, NOAA, U.S. Navy, NGA, GEBCO US Dept of State Geographer

Santa Maria do Herval

Ivoti

ile an

Sapiranga

Parobé

Taquar

Campo Bom

Novo Hamburgo

© 2015 Google Image © 2015 CNES / Astrium Image © 2015 DigitalGlobe

Araricá

Nova Hartz



Três Coroas

Igrejinha

CNEC

SCO.

Small ISPs advantages: Faster customer service Less burocratric More personal service





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3.4*10 38

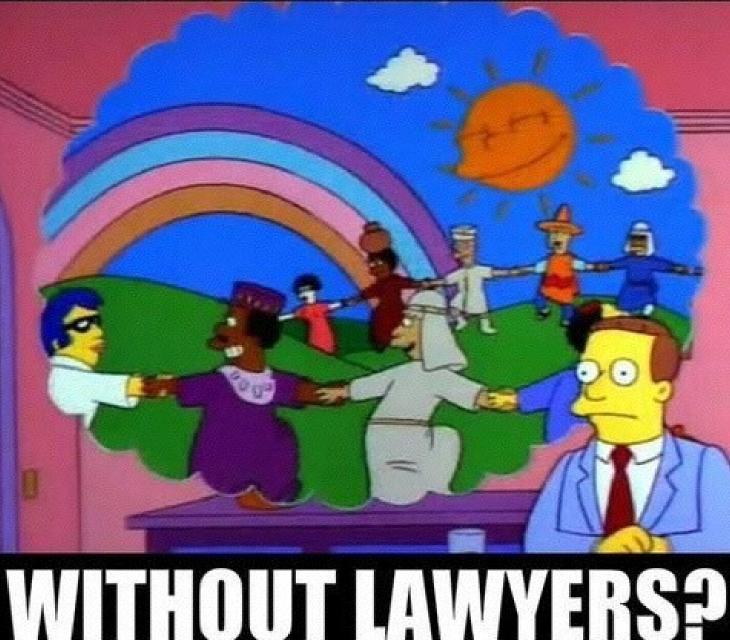
Staff training IPv6 Web hosting IPv6 address space to each end user

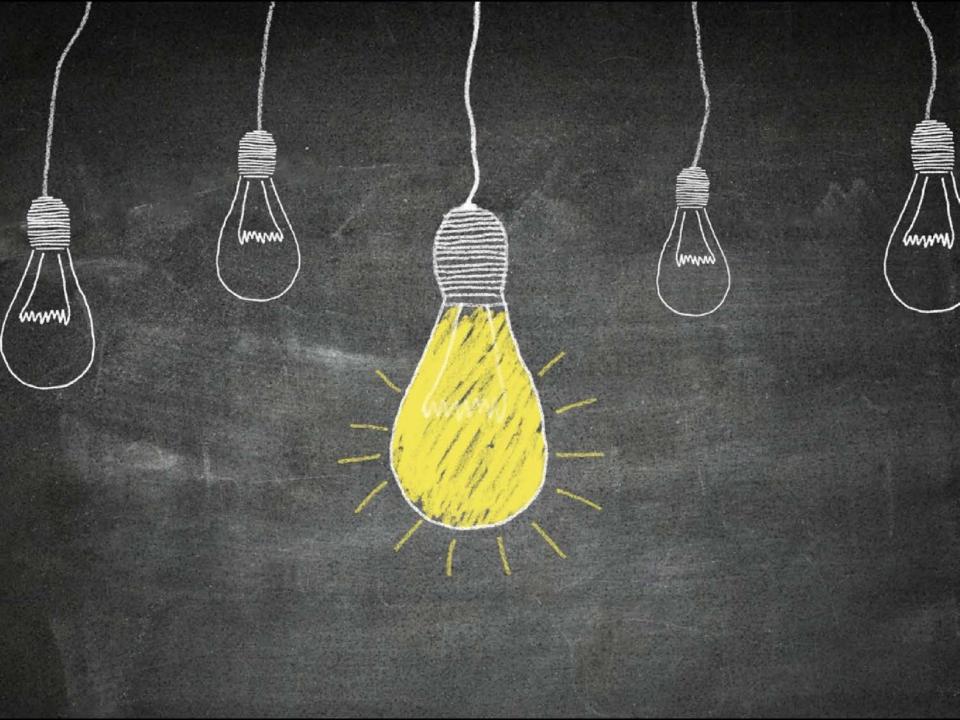


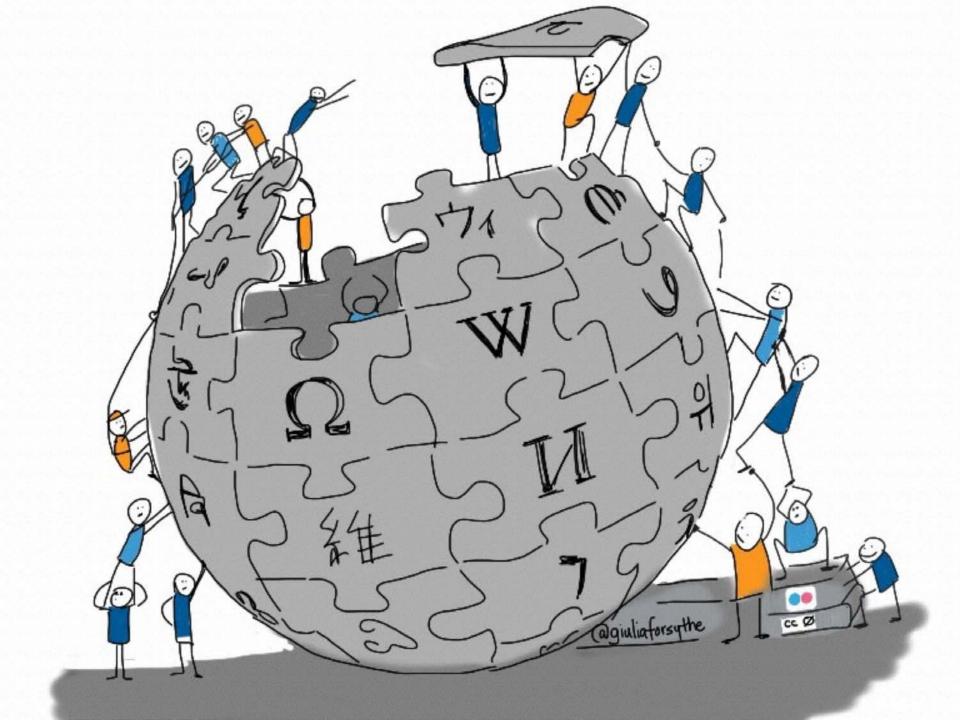


MATÍAS JACKSON - URUGUAY

CAN YOU IMAGINE A WORLD

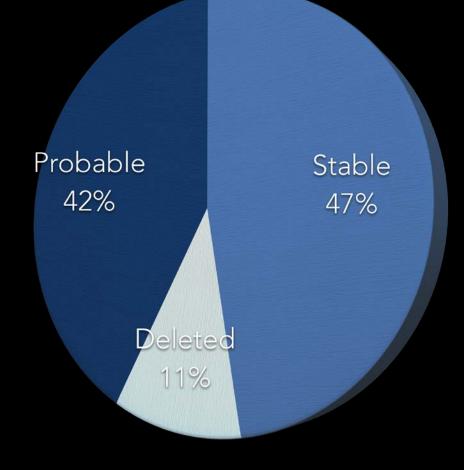








- Data Protection
- Legal
 Informatics
- E-Gov
- Habeas Data
- Ransomware
- Electronic Funds Transfer
- Computer Law
- Cibercrimes
- Teleworking
- Freedom of Information Act
- Electronic Signature



* Articles in spanish



















NovaGenesis

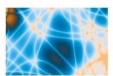
NovaGenesis: A Future Internet Project

Matheus da Costa de Souza Advisor: Prof. Dr. Antonio Marcos Alberti

www.inatel.br/novagenesis/





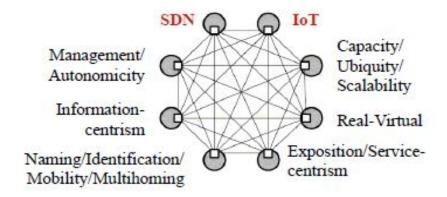


NovaGenesis

NovaGenesis

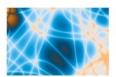
- What is NovaGenesis?
 - A generic architecture that integrates several key technologies thinked to the Future of Internet.

Future Internet Ingredients









NovaGenesis

NovaGenesis

- Questions:
 - Is the TCP/IP stack suitable to the evolution of information global infrastructure on the next decades?
 - It will be possible to re-draw the internet using current technologies?
- The answer:
 - Yes, It is possible to re-project the Internet using the state-of-art of currently technologies.







NovaGenesis

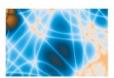
NovaGenesis Architecture

- Identification Structure
 - Unique existence
 - Name Bindings





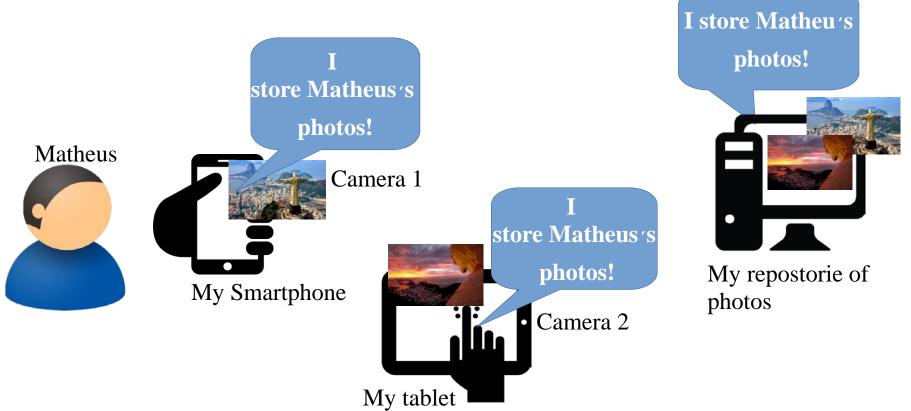




NovaGenesis

NovaGenesis Architecture

- Identification Structure
- It uses syntaxes, associates meaning and context to the entities and contents.





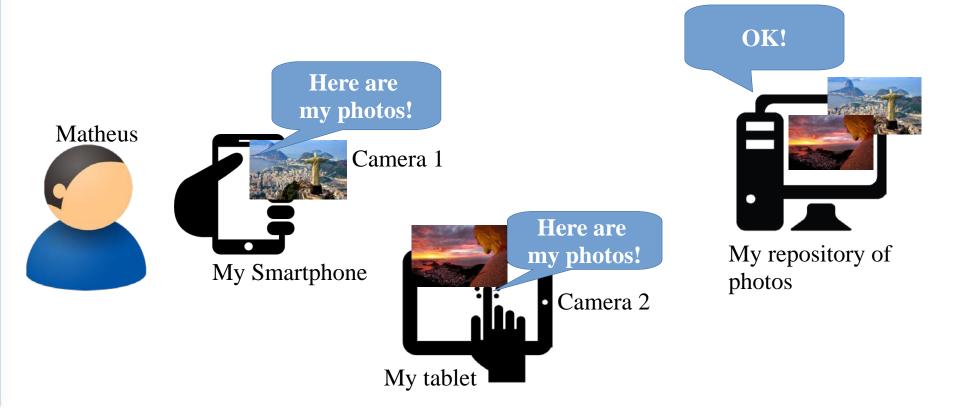




NovaGenesis

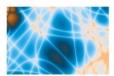
NovaGenesis Architecture

- Identification Structure
 - Services are executed respecting policies chosen by the users.









NovaGenesis

NovaGenesis Architecture

- Identification Structure
 - Advantages

High level of rastreability of information and services.

Enable the architecture to accommodate the meaning of the things inside of itself.

• Get the machines and human language closer.

Instituto Nacional de Telecomunicações



Laboratório de Tecnologias da Informação e Comunicações



NovaGenesis

Switch service-defined architecture

Service defined network

hardware.

The HW has a NovaGenesis proxy.



Convergence between SDN and

SOA.







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NovaGenesis

NovaGenesis

Conclusion:

 We can, using current technologies, create an environment well prepared to the new generation technologies of change, processing and storage of information, which follow, and benefits, the fast technological evolution that we live today, rethinking naming, naming resolution and identifiers.





Laboratório de Tecnologias da Informação e Comunicações



NovaGenesis

Thank you!

Matheus da Costa de Souza

matheussouza@get.inatel.br br.linkedin.com/in/matheuscdesouza www.inatel.br/novagenes



Extending the limits of Paraguay through Internet

Bruno M. Duarte Coscia

Centro Nacional de Computación

Universidad Nacional de Asunción Paraguay

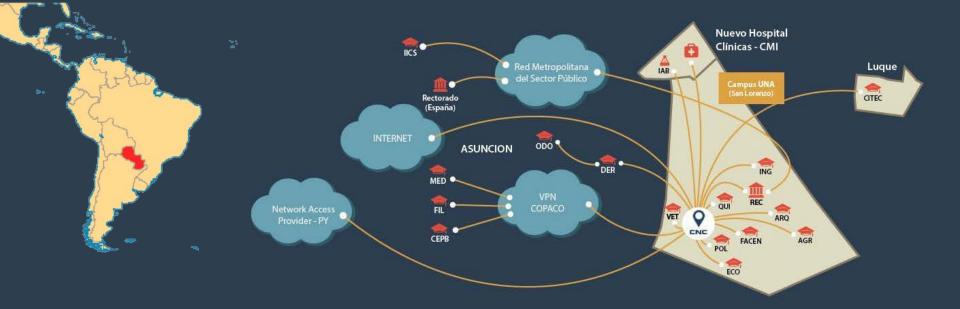
Universidad Nacional de Asunción



June 23th, 2015 ICANN 53, Buenos Aires



Where are we?



Presentation outline

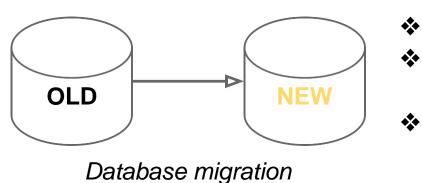
- 1) Improved management for domain name service
- 2) Deployment of second level domain names.
- 3) Name resolution over IPv6
- 4) How an IXP could achieve a higher Internet penetration in the country

Improved management



Improved management for DNS

de pago. [Leer más]



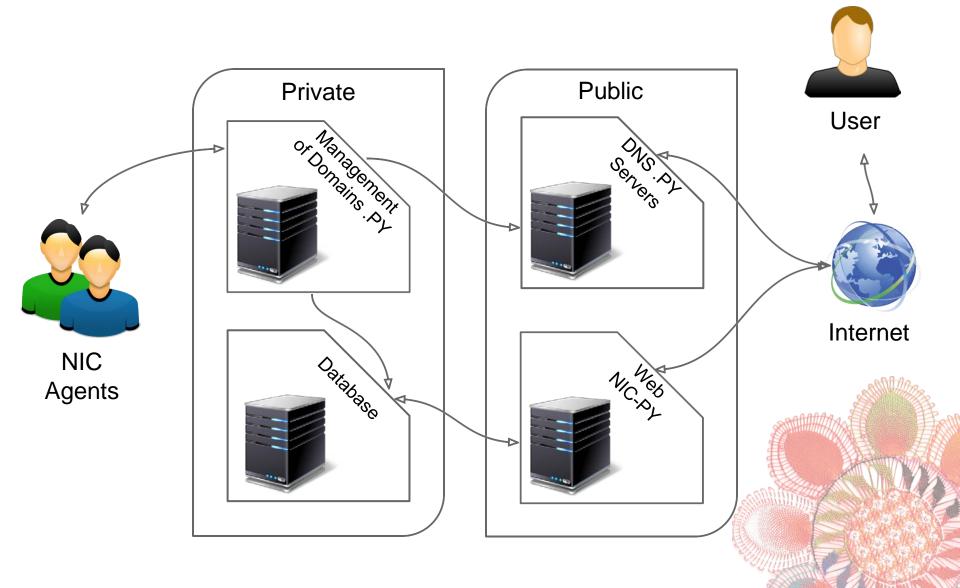
- Database migrated to a new technology
- Rewritten procedures and queries in the new database
- Provide the service on a sustainable technology

[Leer más]

New front-end website with isolated functionalities from the management system



New infrastructure design

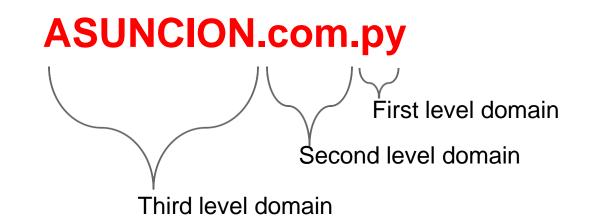


Second level domains



What are second level domains?

Third level domain name:



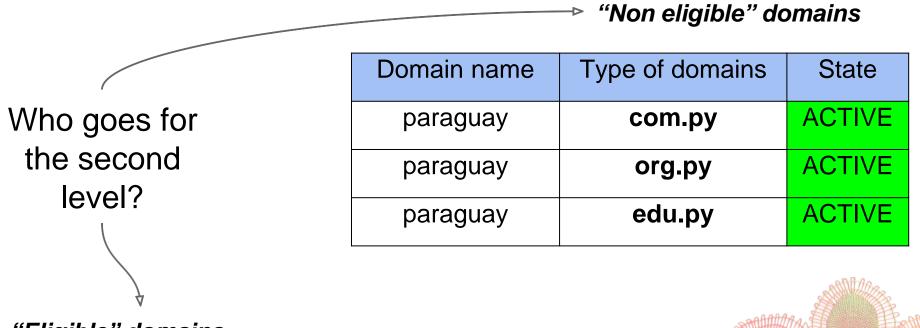
Second level domain name:

ASUNCION.py First level domain

Second level domain

Deployment of second level domains

★ First, we need to see who are automatically eligible and who are not...



"Eligible" domains

Domain name	Type of domains	State
asuncion	com.py	ACTIVE



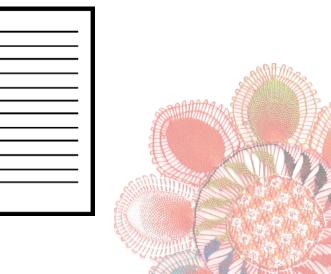
All "eligible" domains that were registered before July 1th, will pass through a process

ASUNCION.com.py

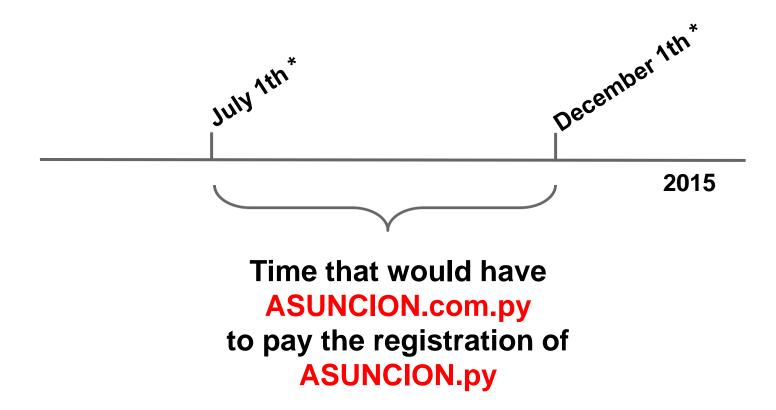




ASUNCION.py



Deployment strategies (2/3)



★ Within the grace period, if the "reserved" domain is not paid, then the domain name will be open to request it.

* Estimated date

Deployment strategies (3/3)

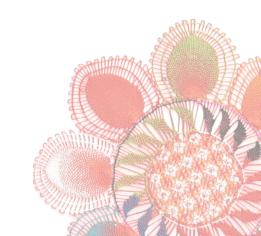
★ NIC-PY is planning to establish an agreement with WIPO/OMPI for dispute resolution regarding second and third level names for ".py"



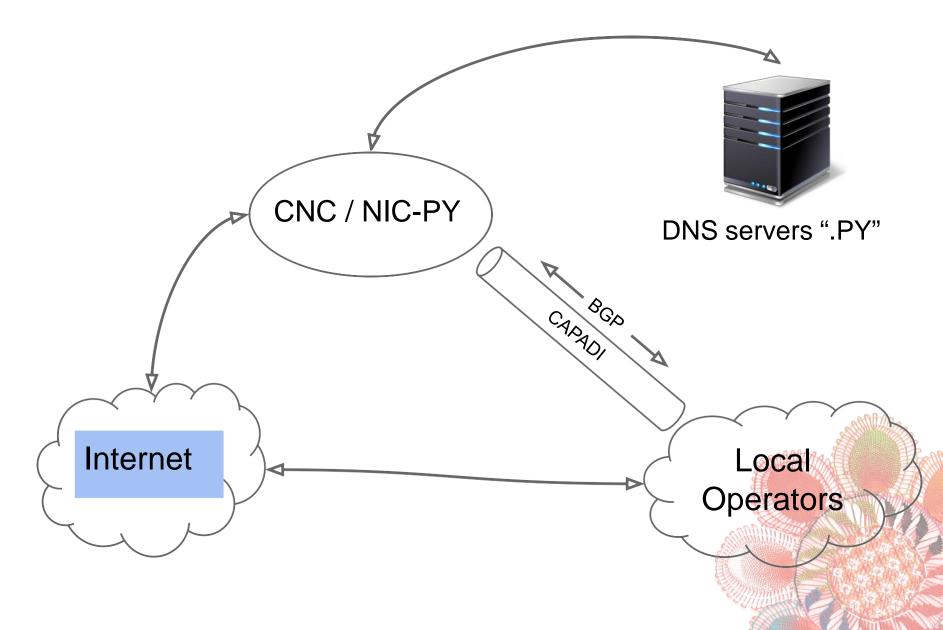
World Intellectual Property Organization



Deployment

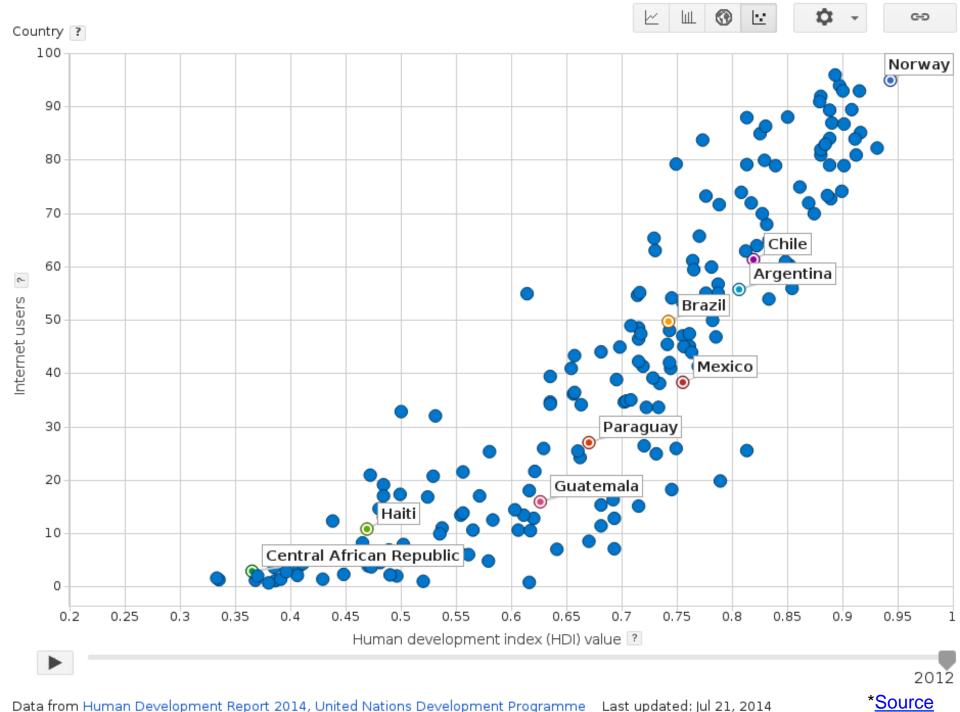


Name resolution over IPv6



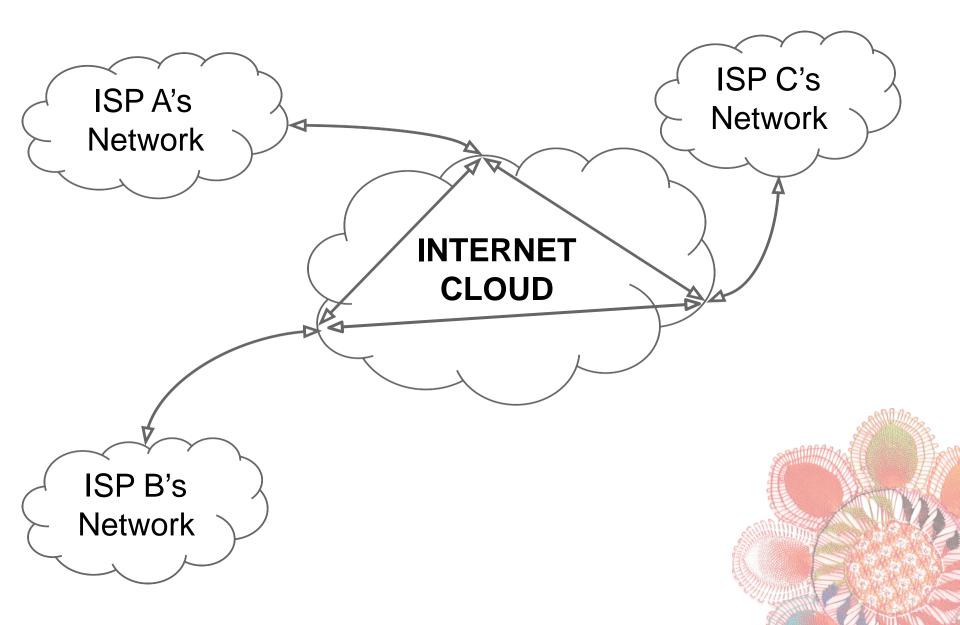
IXP



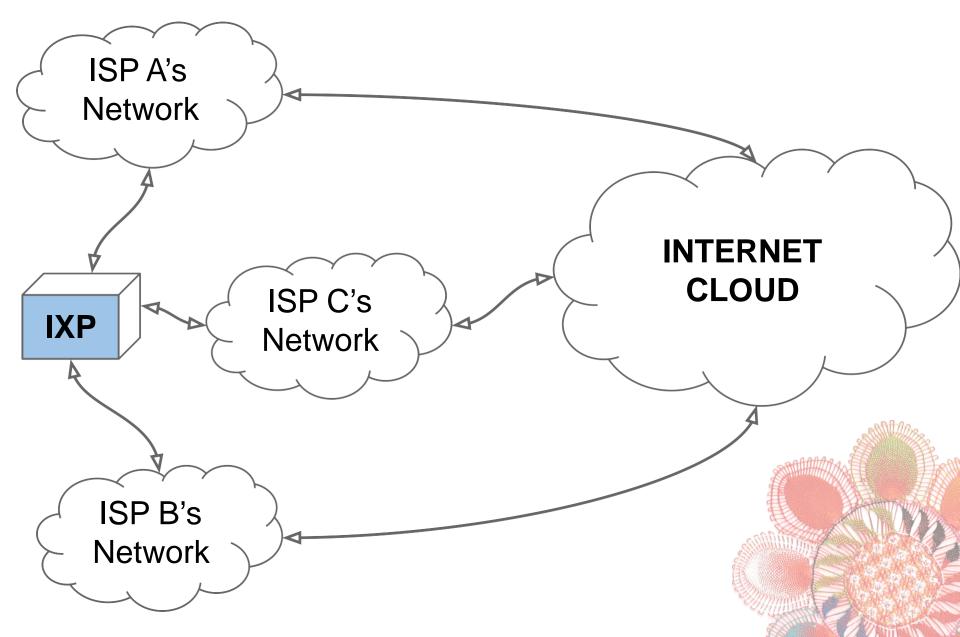


Data from Human Development Report 2014, United Nations Development Programme Last updated: Jul 21, 2014

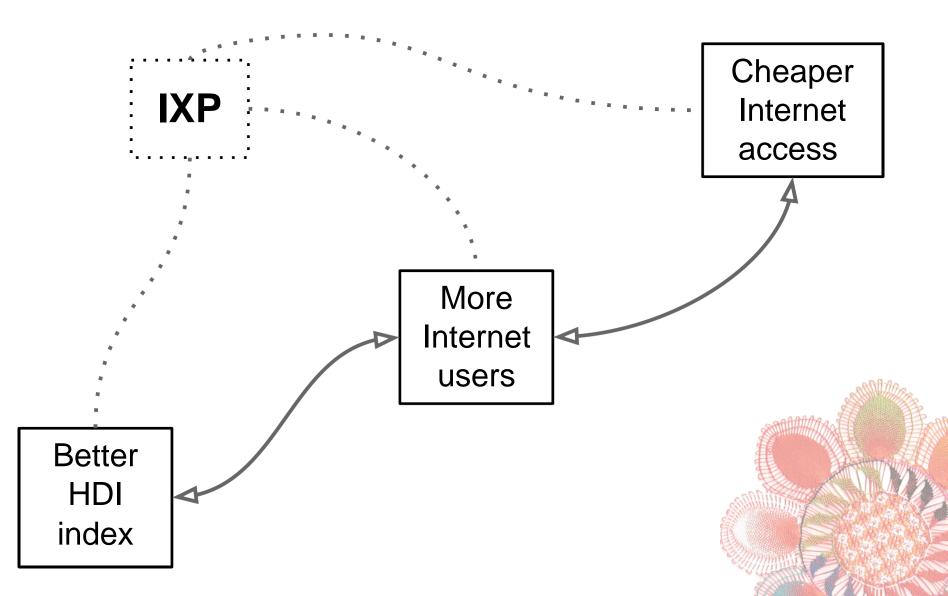
Connectivity between ISPs



Connectivity between ISPs with an IXP



How an IXP could achieve a higher Internet penetration in the country



Universidad Nacional de Asunción



Centro Nacional de Computación

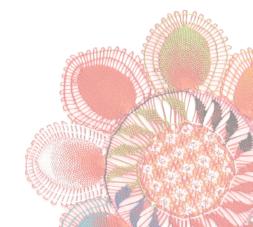


Thanks!

bduarte@cnc.una.py

http://www.nic.py/

http://www.cnc.una.py/



Raphael Silveiras

Ph.D. Candidate in Sociology at University of Campinas (UNICAMP)

 \rightarrow Master's degree research done in the sociology field at Unicamp (2012-2014): Public Consultations for the Brazilian Civil Rights Framework to the Internet and the Copyright Law Reform: the relationship between law, Internet and State in contemporaneity.

This paper investigated the performance of the State and civil society from two public consultations over the Internet in Brazil: Brazilian Civil Rights Framework to the Internet and the Copyright Law Reform. This research focused primarily on the state's action, more specifically on how it has exercised the power in these spaces, using Michel Foucault's theoretical conception of power as reference.

 \rightarrow Ph.D. research ongoing: **Powers and counterpowers on the Internet**: governance, architecture and resistance on the network of networks

This research project aims to investigate how governance is exercised on the Internet, its technical boundaries, the central actors and their interaction on the construction of the Internet architecture, with reference to Brazil and the U.S., which will be analyzed comparatively. Referenced to these actors that exercises the governance and considering the conception of power in Foucault, it should be emphasized that there are counterpowers in relation to Internet governance, fundamental consideration to its proper understanding. This research is important in two points: on the extent to which the Internet is present in a significant part of life of the world population; and a deep knowledge about it to cooperate to more critical uses of Internet, and to the debate about the Internet governance in the sociological field.

 \rightarrow How this sociological study can contribute with other studies about Internet Governance?

1) New critical perceptions about Internet Governance

Unlike other disciplines, sociology does not necessarily hold on to traditional social categories, like "State" and "rights", which allows a different view about an object of analysis. So, this research can provide other critical means to reflect about the Internet
2) Can contribute with the access of non-technical people to technical knowledge of the Internet

3) To encourage the debate about Internet from the sociological bias, looking for a dialogue with others areas of knowledge.

\rightarrow Fundamental objective

Understand how to exercise the Internet Governance, what are your national and technical limitations, its key players on the interaction between them to the construction of its architecture, with the United States and Brazil as references and understand how these countries are interacting on this area (different positions on Internet → SecondaryGobjectionese)

- A) To study the architectural construction of the Internet and its operation mode since its infrastructure
- B) To comprehend how Internet works, its working conditions, its technical limits and the limits of its governance
- C) To investigate ways of using the Internet that in some cases goes beyond its governance
- D) D) To contribute with the dialogue between sociology and technical structure of Internet

Briefly, it could be said that the objective is to investigate the power and the counter-power in Internet Governance and the recognition of its architecture, investigating the political dimension of its development.

\rightarrow Some references

FOUCAULT, M. GETSCHKO, D. DELEUZE, G. MULLER, M. ABBATE, J. SILVEIRA, S. A. BERNERS-LEE, WELLMAN, B. T.

CASTELLS, M. → Main theoretical-methodological references

FOUCAULT, M. DELEUZE, G.

\rightarrow Main articulated concepts

Foucault: power (power relation, ascending analysis, power dynamics); biopower; device Deleuze: device; rhizome; control society

 \rightarrow Forecast to end the research: September 2018

Thanks!

Raphael Silveiras raphaelsilveiras@outlook.com

Privacy Governance in Cyberspace

Marília Monteiro June 2015



Cyberspace

"Cyberspace is the processing, manipulation, and exploitation of information; the facilitation and augmentation of communication among people; and the interaction of people, information, and devices. The main characteristic of cyberspace is the interconnection of computers, information, devices, and people. "

(Almeida&Doneda 2015)

Cyberspace Governance governing actors?

Level	Technology	International Documents	Regulation & Laws
Global	Critical Resources	Privacy	
	Names and Number	Access	
	Encryption	Ethics	
Regional	Numbers (IP)	Access	
		Ethics	
National			Freedom of Expression
			Privacy
			Access
			Ethics

Privacy Governance governing interests/rights?



Related Issues

- Data
 Protection
- Walled Gardens
- Digital Arms Race
- Neutrality
- Broadband plans
- Jurisdictio

Privacy Governance in Cyberspace a multistakeholder choice

- Regulation
 - Technical
- Social / culture

Obrigada :)

mariliaamonteiro@gmail.com @am_marilia

International Regulations on Privacy and the Multistakeholder Approach

NextGe

@ICA

Margareth Kang Buenos Aires 2015



Until 1981 : Human Rights Declarations

- 1. Universal Declaration of Human Rights- 1948
- 2. European Convention of Human Rights 1950
- 3. American Convention of Human Rights 1978
- 4. African (BANJUL) Charter on Human and Peoples' Rights 1981

From 1980 to 2000 : Privacy Protection



- OECD Guidelines (on the Protection of Privacy and the Transnational Flow of Personal Information) - 1980.
- 2. Directive 95/46/EC of the EU on the protection of individuals with regard to the processing of personal data and on the free movement of such data -1998



From 2000 to 2010



- 1. EU-US Safe Harbor 2000.
- 2. Directive 2002/58/EC of EU concerning the processing of personal data and the protection of privacy in the electronic communications sector _-2002
- 3. APEC Privacy Framework 2005
- 4. APEC Data Pathfinder 2007

From may 2010 to 2015

- 1. APEC Cross-Border Privacy Rules 2010
- 2. UN Guiding Principles on Business and Human Rights 2011.
- 3. The African Union Convention on Cybersecurity and Personal Data Protection 2014
- 4. UN Resolution A / HRC / 28 / L.27 , " The right to privacy in the digital age " 2015
- 5. Personal Data Protection Principles OAS march 2015.
- 6. General Data Protection Regulation (GDPR) Endorsed by European Ministers on june 15th, 2015.





TODAY ...













PRIVATE SECTOR





ACADEMIA

Thank you !



TE DIC•

Data Retention In Paraguay

Jazmín Acuña TEDIC Paraguay

ICANN53 Buenos Aires, Argentina

Civic campaign against a data retention bill

- Communications
- Politics
- Technology

Mandate of the bill proposal

- ISPs would have to retain traffic data for 12 months
- With a judge order, ISPs would have to release the data to prosecutors
- Justification: Terrorism, drug traficking and child pornography

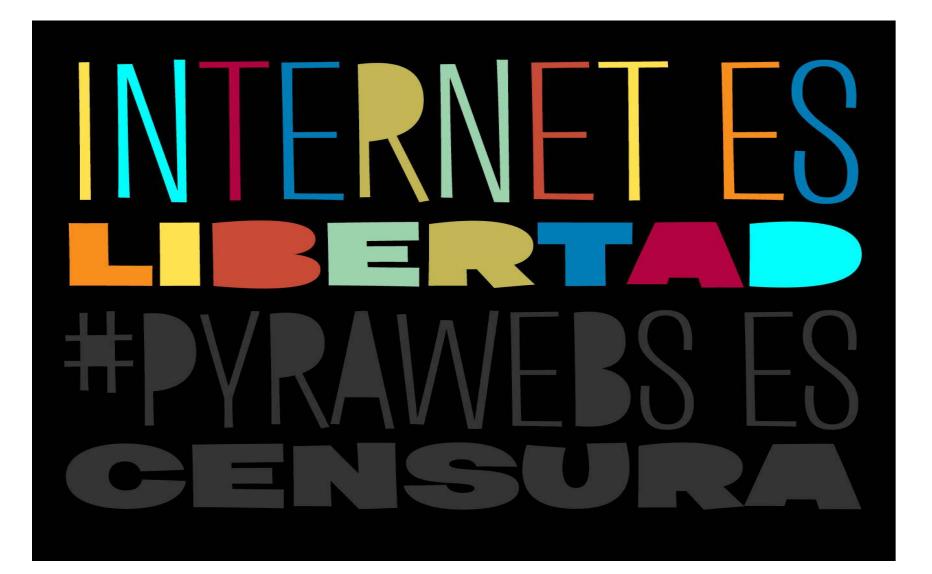
Communications

*Pyragues + web = #Pyrawebs

*Pyragues: Undercover agents of the dictatorial regime

#PYRAWEBS 公Alfredo Stroessner liked this

INFORMATE MÁS EN PYRAWEBS.TEDIC.ORG



Politics

- Lobbying
 - Experts' analyses: EFF and Access
 - International record
 - E-petition





Technology

- The issue
 - One public IP = One user/service in most places
 - One public IP ≠ One user/service in Paraguay
 - One public IP = approximately 250 users
- Solutions
 - Enforcement
 - IPV6

Questions?



For a gender conscious Internet agenda in Brazil

Mariana Giorgetti Valente (research team: Natália Neris Lucas Bulgarelli)

> Galeria Ouro Fino Rua Augusta 2690 2º andar, loja 326 São Paulo SP Brasi

www.internetlab.org.br



>> work in progress

background problem:

three themes:

>> nudity on social platforms, ToS
>> transgender identity / activism
>> misogyny on the Internet, especially
revenge porn

>> revenge porn: the Marco Civil intermediary liability



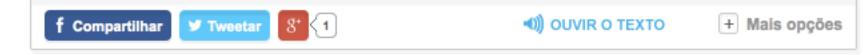
>> revenge porn: the Marco Civil

poder

Marco Civil da Internet pode agilizar exclusão de imagens de 'vingança pornô' na internet

MÁRCIO FALCÃO JULIA BORBA DE BRASÍLIA

11/12/2013 O 15h10



Numa tentativa de coibir o chamado "revenge porn" --vingança pornô, em



São Paulo Court of Appeals

>> Marco Civil being enforced (companies held liable)

>> most cases: threat and extorsion

(problem larger than expected)

>> field work: the "Top 10"





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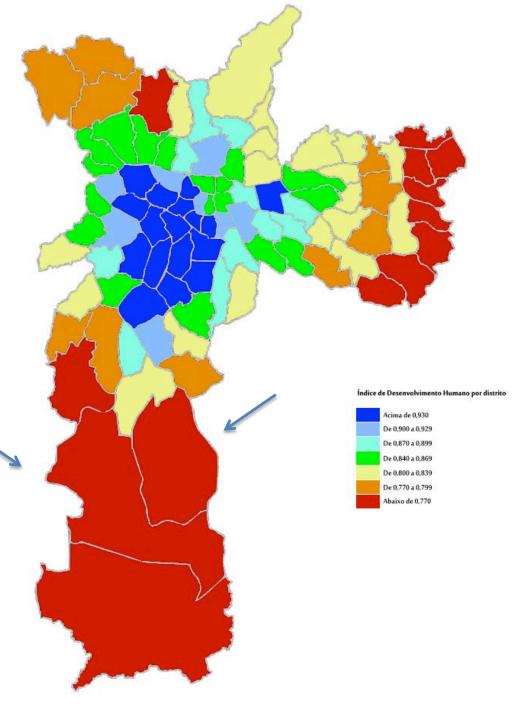
₽

3:55 / 4:54

São Paulo Grajaú, Parelheiros

>> low state presence
>> revenge porn?
no revenge, no porn
>> intersectionality

>> activism: empowerment, no criminalization



A few conclusions (or confusions)

>> revenge porn is not a good concept >> bills might be displaced

>> media coverage is poor / does not provide good account of the problem

>> policies must involve education and health sectors / platforms could improve presence and involvement

Google to remove 'revenge porn' from search results

COMMENT

Jessica Guynn, USATODAY 6:12 p.m. EDT June 19, 2015



(Photo: Martin E. Klimek, USA TODAY)







SAN FRANCISCO -In a significant step to combat "revenge porn," Google will honor requests to remove from search results nude or sexually explicit images posted on the Internet without consent.

Google says it will remove the search results the same way it does other sorts of highly sensitive

personal information such as bank account numbers and Social Security numbers.

"Our philosophy has always been that search should reflect the whole Web," Amit Singhal, senior vice president of Google Search said in a blog post provided to USA TODAY. "But revenge porn images are intensely personal and emotionally damaging, and serve only to degrade the victim - predominantly women."

Victims will be able to submit requests through an online form in coming weeks, Google said.

"We know this won't solve the problem of revenge porn - we aren't able, of course, to /4314130163001 se images from the websites themselves - but we hope that honoring



Buying An operating system might be A thing of the past 02:20



This \$1600 'emotional' robot sells out in one minute 01:10



Internet as a hostile space? online x offline

thank you.

mariana@internetlab.org.br www.internetlab.org.br

Galeria Ouro Fino Rua Augusta 2690 2º andar, loja 326 São Paulo SP Brasi

www.internetlab.org.br



O FUTURO DA INTERNET

E SUAS APLICAÇÕES NAS BASES



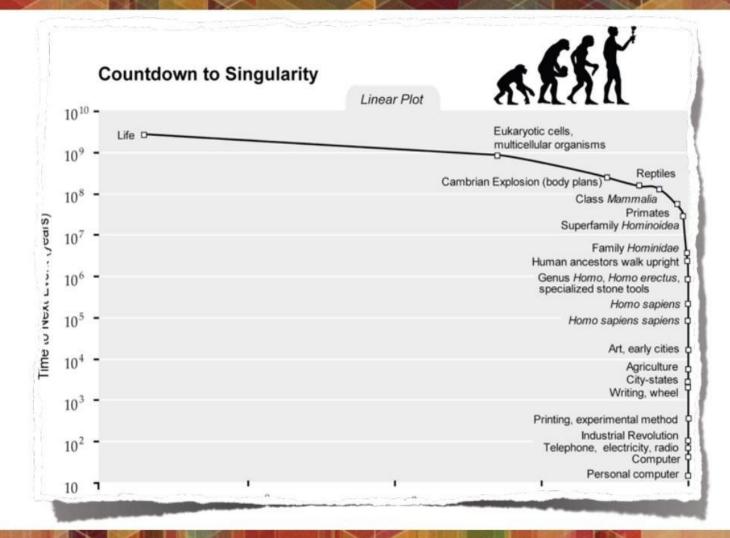


CRESCIMENTO EXPONENCIAL

+ FUTURISMO

+ PERIFERIA

= REALIDADE







Engage with ICANN



Thank You and Questions

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