



Digital Governance and the Saint Lucian ICT Professional

Albert Daniels | SLICTA AGM | 21 November 2015

Where do you fit into the ICT / Internet Ecosystem as a Saint Lucian ICT Professional?

Agenda

**Three Layers of
Digital
Governance**

Emerging Issues

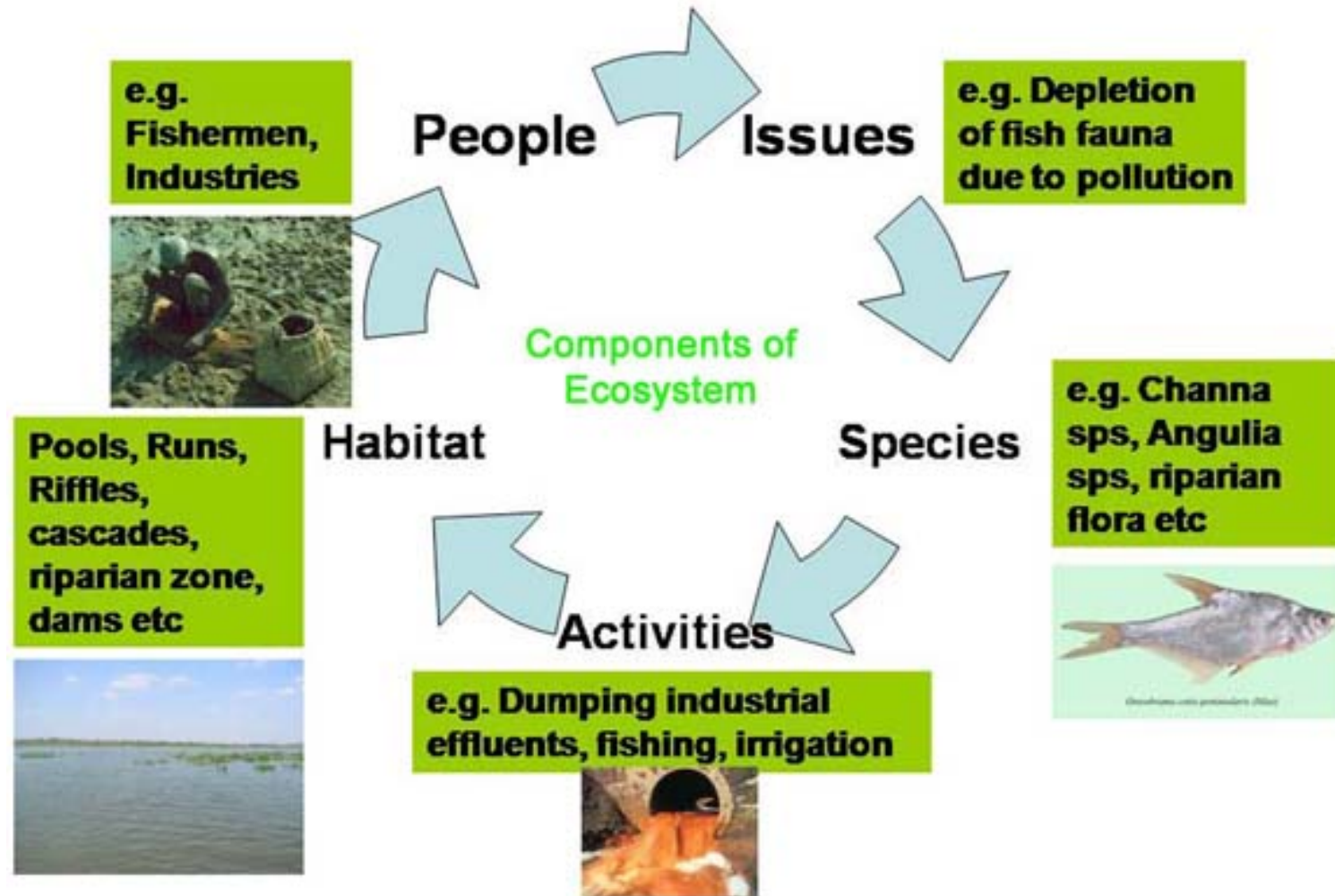
**Stakeholder
Journey
SLICTA / ICANN**

**ICANN Latin
America &
Caribbean
Strategy**

Participation

Three Layers of Digital Governance

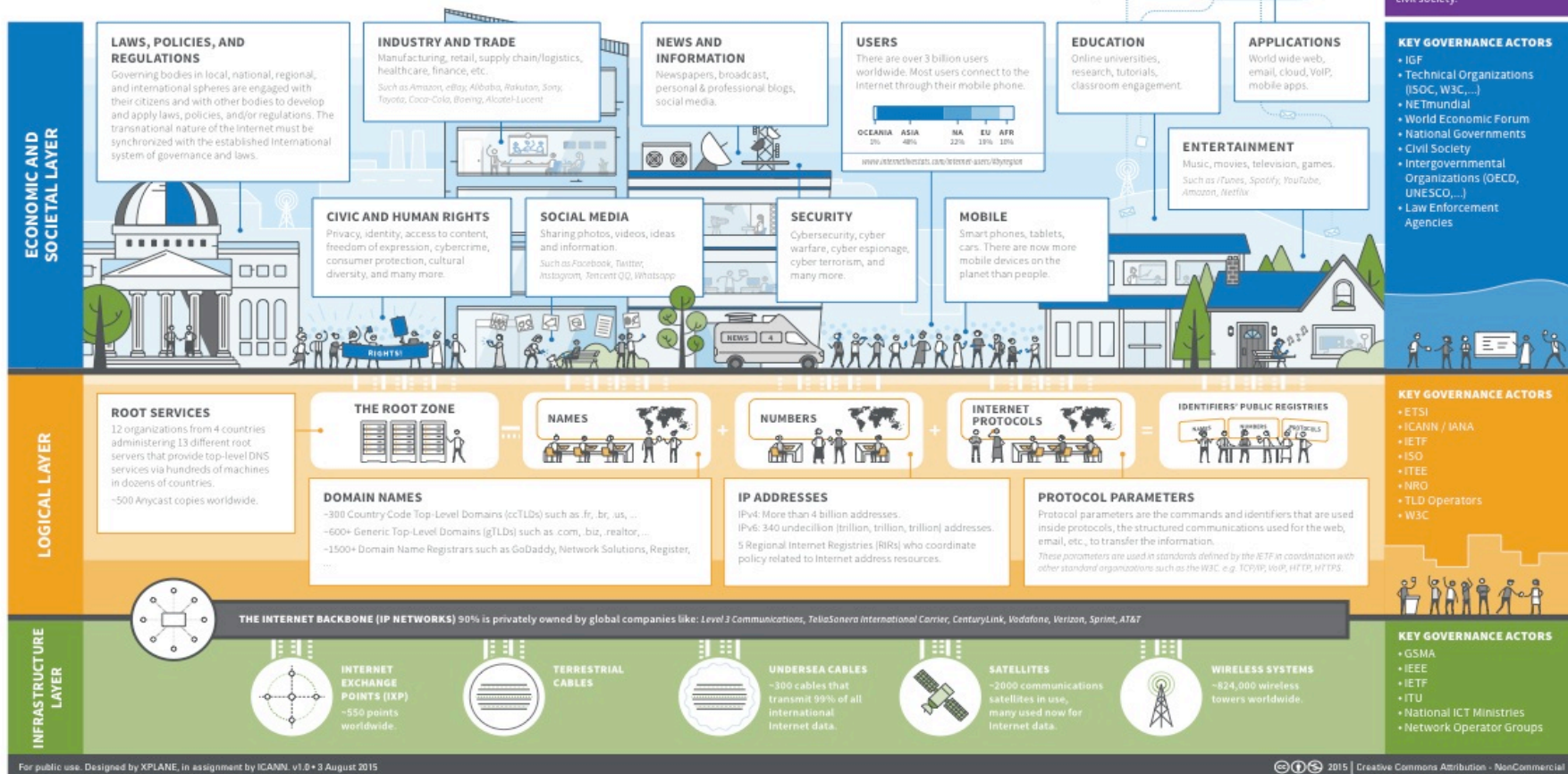
We operate in an ECOSYSTEM



Three Layers of Digital Governance

THE THREE LAYERS OF DIGITAL GOVERNANCE

No one person, government, organization, or company governs the digital infrastructure, economy, or society. Digital governance is achieved through the collaborations of Multistakeholder experts acting through polycentric communities, institutions, and platforms across national, regional, and global spheres. Digital Governance may be stratified into three layers to address infrastructure, economic, and societal issues with solutions. For a map of Digital Governance Issues and Solutions across all three layers, visit <https://map.netmundial.org>



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Infrastructure Layer

- **Terrestrial Cables**
- **Undersea Cables** - (300 cables that transmit 99% of all international Internet Data)
- **Satellites** - (2000 communications satellites in use, many used now for Internet data)
- **Internet Exchange Points (IXPs)** - (550 Worldwide)

Logical Layer

- **The Root Zone** (Managed by ICANN – IANA function)
- **Domain Names** (300 *ccTLDs*, 600+ *gTLDs*, 1500+ Domain Name Registrars such as GoDaddy)
- **IP Addresses** – (IPv4 - 4 Billion+ addresses, IPv6 – 340 undecillion [**trillion, trillion, trillion**] addresses , 5 Regional Internet Registries)
- **Protocol Parameters** - (commands and identifiers used inside protocols for the web, email to transfer information – *defined by IETF, W3C and other standards orgs e.g. TCP/IP, VoIP, HTTP, HTTPS*)

Economic & Societal Layer

- Laws, Policies & Regulations
- Industry & Trade
- Civic and Human Rights
- Education
- Social Media, Entertainment
- Security
- News and Information
- Security
- Mobile
- Applications
- Users

Key Governance Actors

Infrastructure

- GSMA
- IEEE
- IETF
- ITU
- National ICT Ministries
- Network Operator Groups

Logical

- ETSI
- ICANN / IANA
- IETF
- ISO
- NRO (ARIN, LACNIC, RIPE, APNIC, AFRINIC)
- TLD Operators
- W3C

Economic & Societal

- IGF
- Technical Orgs (ISOC, W3C etc.)
- NET Mundial
- World Economic Forum
- Civil Society
- National Governments
- IGO's (OECS, UNESCO etc.)
- Law Enforcement Agencies

Emerging Issues

Internet of Things

The Internet of Things Moves In

Would find value in smart **HOME** solutions

smartphone owners **65%**

all consumers **55%**

consumers willing to pay for smart home solutions **71%**

The 2014 U.S. edition of Deloitte's Global Mobile Consumer Survey reveals that smartphone owners overindexed in their desire for Internet of Things (IoT) solutions for the home and car.

Would find value in connected **CAR** solutions

smartphone owners **72%**

all consumers **63%**

consumers willing to pay for connected car solutions **60%**

SMART HOME
% of most valued technologies

CONNECTED CAR
% of most valued technologies

Home Control
lights, heating and burglar alarms controlled by smartphone

47%

Home Monitoring
in-home camera footage viewed and controlled by smartphone

40%

Entertainment
entertainment systems display social media postings

20%

Appliance Control
sensors in appliances send notifications to smartphone

18%

Landscape Control
landscape systems measure plant moisture, watering only when necessary

9%

Younger Generations (18-24)

17% Compared to other consumers surveyed, the youngest generation valued landscape control the most. Do they not want to do their chores?

16% Surprisingly, the youngest generation is also the age group most interested in self-driving cars. Would they rather text than get behind the wheel?

10%

Automation

driverless operation

While the least valued connected technology is the self-driving car, **60%** of all consumers would be willing to pay for one.

40%

Traffic/Weather

real-time traffic and weather updates displayed on in-car screens

39%

Navigation

mapping and route optimization

28%

Maintenance

automated diagnosis and tracking of vehicle's systems

23%

Access

remotely lock and track vehicle via Internet-connected device

18%

Entertainment

music streaming to in-car entertainment system

18%

Fuel Tracking

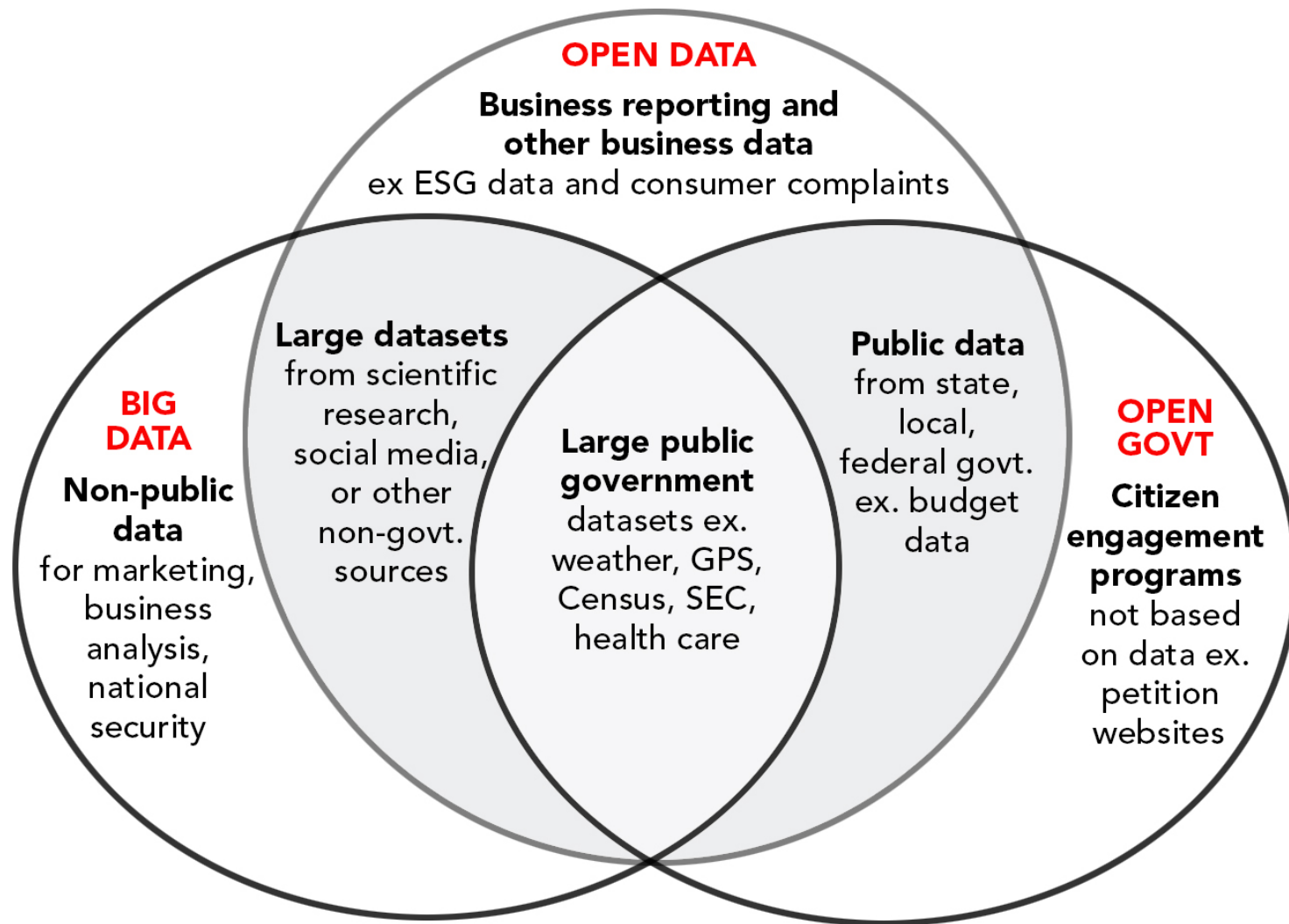
fuel efficiency tracking

Deloitte.

For additional insights from the 2014 Global Mobile Consumer Survey: U.S. edition, visit www.deloitte.com/us/mobileconsumer
"% of most valued technologies" refers to smartphone owner data. Respondents could select more than one option.

  @DeloitteTMT

Big Data is Big, Open Data is Revolutionary



Whose job is Cyber Security?



Internet Governance (ICANN's Role)

Internet Governance refers to the processes that impact how the Internet is managed.



Stakeholder Journey (SLICTA / ICANN)

Stakeholder Journey (ICANN / SLICTA)

Complexity

**Time and
expense**

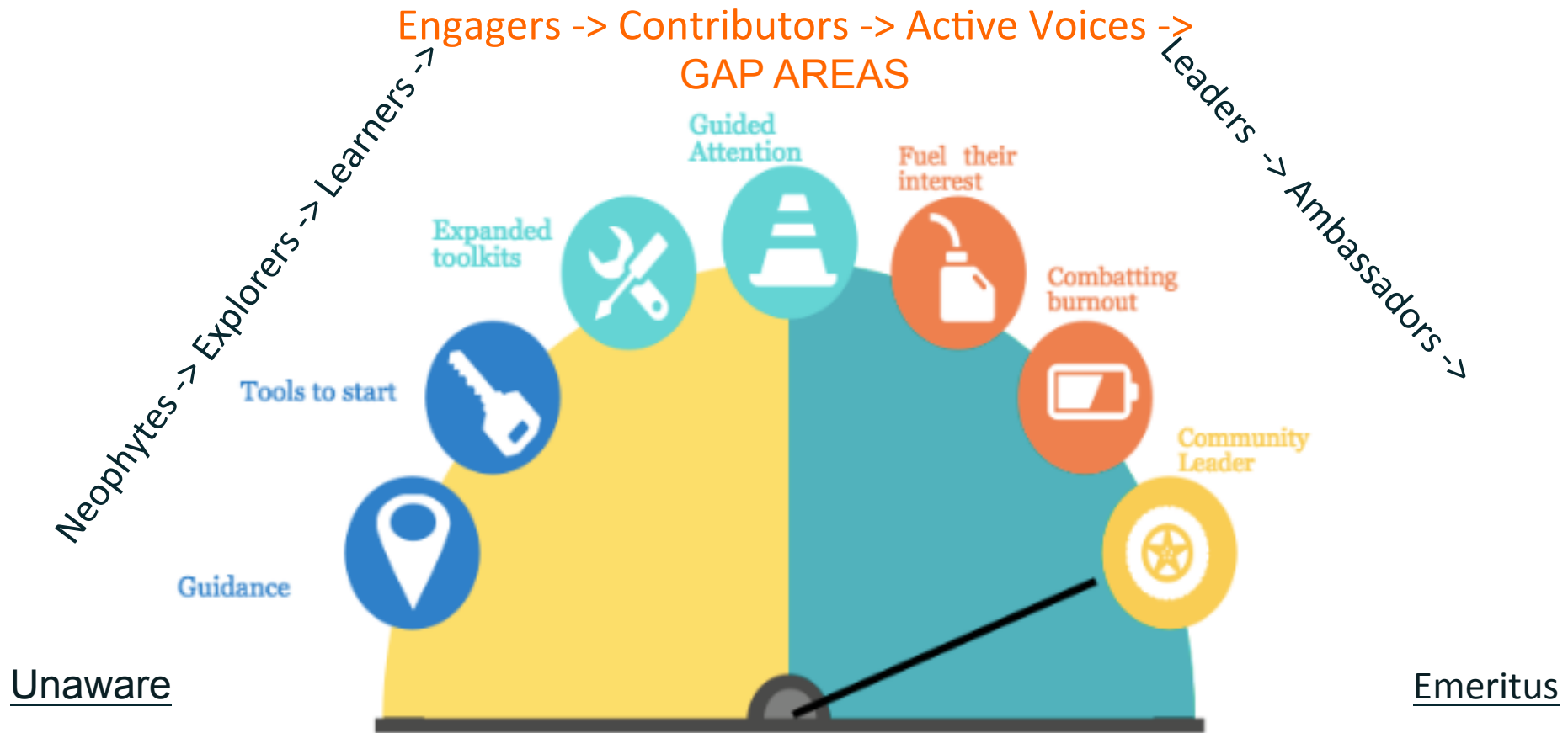
**Language and
connectivity**

**Knowledge
requirements**

**Intimidating
incumbents**

A Complete Stakeholder Lifecycle

Many distinct and complete journeys exist within a lifecycle; identifying stages of the journey informs what each stakeholder needs from the organization



Approach to overcoming challenges

1. Encourage engagement by topic, not ICANN structure
2. Promote Working Group and PdP participation
3. Develop mechanisms to “activate” followers
4. Support existing outreach efforts
5. Use data to Identify and track distinct journeys
(in order to measure progress)

ICANN Latin America and Caribbean Strategy

LAC Strategy Working Groups (39)

- Political Issues
- Capacity Building & Outreach
- Operations
- Economic Issues

1.0 - Political Issues (4 WGs)

- 1.1 - Foster the Multi-stakeholder Model (MSH) in the LAC region. (2 WGs)
- 1.2 - Get regional stakeholder groups especially Governments engaged in the discussions on the future of IANA Stewardship Transition and Accountability implementation. (1 WG)
- 1.3 - Support the diverse and meaningful Regional participation in the IANA Stewardship Transition and Accountability Implementation. (1WG)

2.0 – Capacity Building & Outreach (14 WGs)

- 2.1 - To increase and improve engagement initiatives to existing members of ICANN's multistakeholder community (Governments, end-users, Civil Society, Technical Community, Academia, Private Sector and Business) regarding issues related with ICANN and the DNS (4 WGs)
- 2.2 - To bring new people and organization into ICANN's multistakeholder community through ongoing and new outreach mechanisms/activities. (Governments, end-users, Civil Society, Technical Community, Academia, Private Sector and Business) (10 WGs)

3.0 – Operations (12 WGs)

- 3.1 - Support operational development of registries and registrars from the Region (4 WGs)
- 3.2 - Contribute to a Secure, Stable and Resilient DNS in the Region by partnering with regional/national organizations. (4 WGs)
- 3.2 - Support the promotion of an adequate deployment of IPv6 accelerating the adoption in the region. (4 WGs)

4.0 – Economic Issues (9WGs)

- 4.1 - Support the development of the LAC DNS Industry (6 WGs)
- 4.2 - To promote stable partnerships with Regional and National Organizations for the development of the domain name industry in the region via Capacity Building Initiatives. (3 WGs)

Participation

How to Participate (SLICTA - National)

- Identify topics that are of interest to you or your organization
- Follow what is happening with SLICTA (website, mailing list, FB Page, discussion, meetings, events)
- Volunteer on a working committee (education, security, application development, national policy)
- Spread the word nationally and give “informed” views to the general public on national ICT issues
- Take up a leadership position – *Committee Chair, Government / Chamber Liaison, Executive*

How to Participate (ICANN - Global)

- Identify topics that are of interest to you or your organization
- Follow what is happening with ICANN(website, mailing list, FB Page, discussion, meetings, events) – Remote Participation, Fellowship in Person
- Volunteer on a working committee (LAC Strategy)
- Spread the word GLOBALLY and give input from a Caribbean perspective
- Take up a leadership position – *Work Group Chair, Council Member, Board Member*

*Those who PARTICIPATE will set the policy and
reap the benefits.*



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