

ICANN Update



Save Vocea

Vice President, Stakeholder Engagement - Oceania

Presented at PacNOG22, Honiara, SB.

25 June 2018

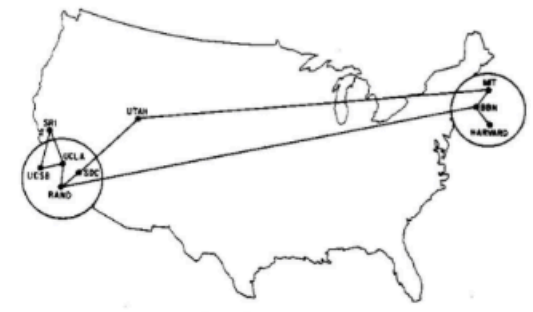
The Early Days

The Beginning...

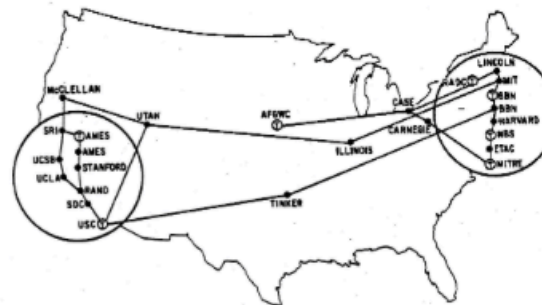
- The Internet started as a research project to allow computers in universities and research institutions to connect and share resources (ARPANET)
- As the network continued to grow, the need for a distributed naming system became apparent => the Domain Name System (DNS)



Dezember 1969



Juni 1970



März 1972



Juli 1977

History of the Internet Part I

1969



ARPANET, first network run on packet switching technology, created

1974



Transmission Control Protocol/Internet Protocol (TCP/IP) designed by Vint Cerf and Bob Kahn

1989

HTTP://

Tim Berners-Lee invents World Wide Web and HTTP

1993



Mosaic Browser released, popularized the WWW

History of the Internet Part II

1998



ICANN incorporated
in California

1998



Google founded

2001



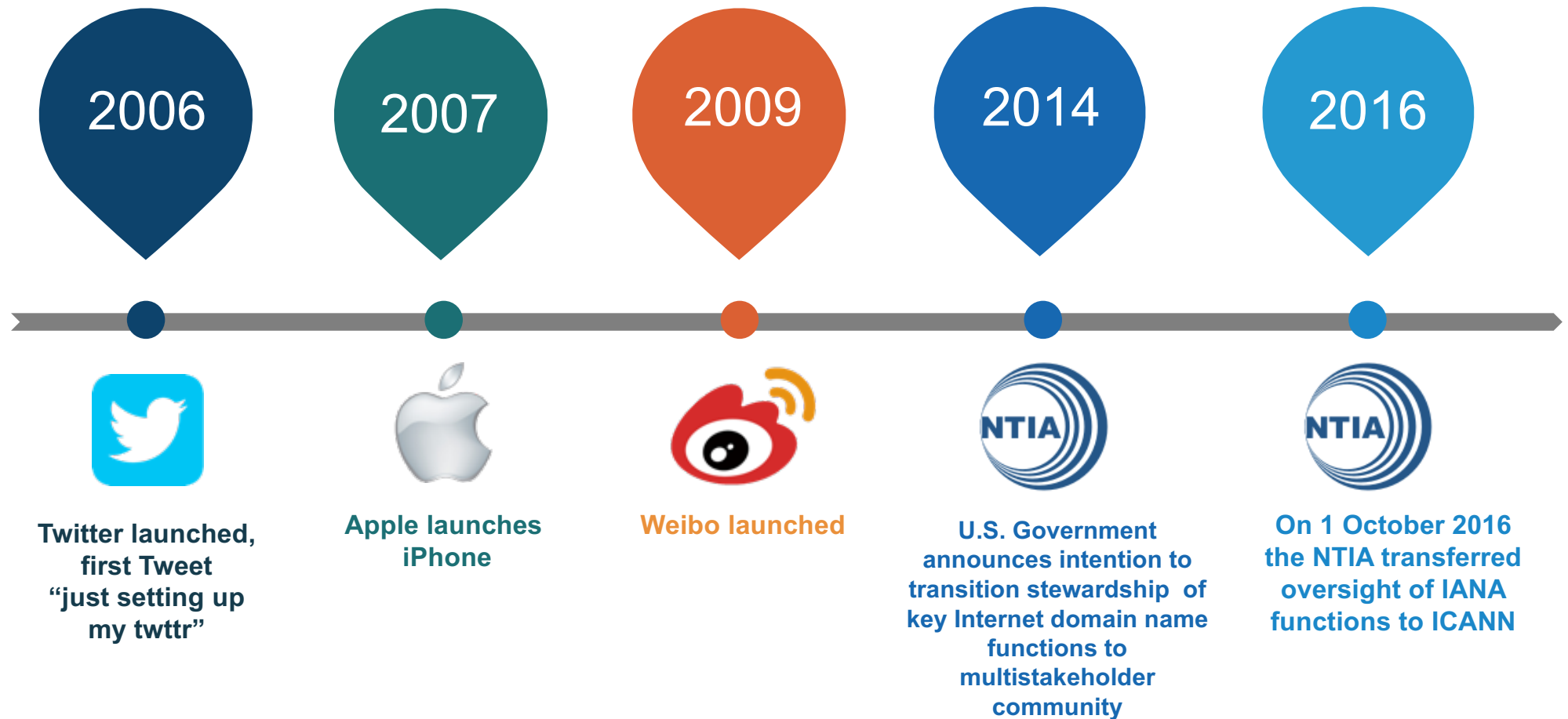
Wikipedia launched

2004



Mark Zuckerberg
launches Facebook
in Cambridge, MA

History of the Internet Part II



ICANN History Project

The ICANN History Project explores the key events in ICANN's growth, from its birth to its current day status.

This project seeks to preserve the organization's institutional memory by capturing stories from key figures who helped shape ICANN's past and present.

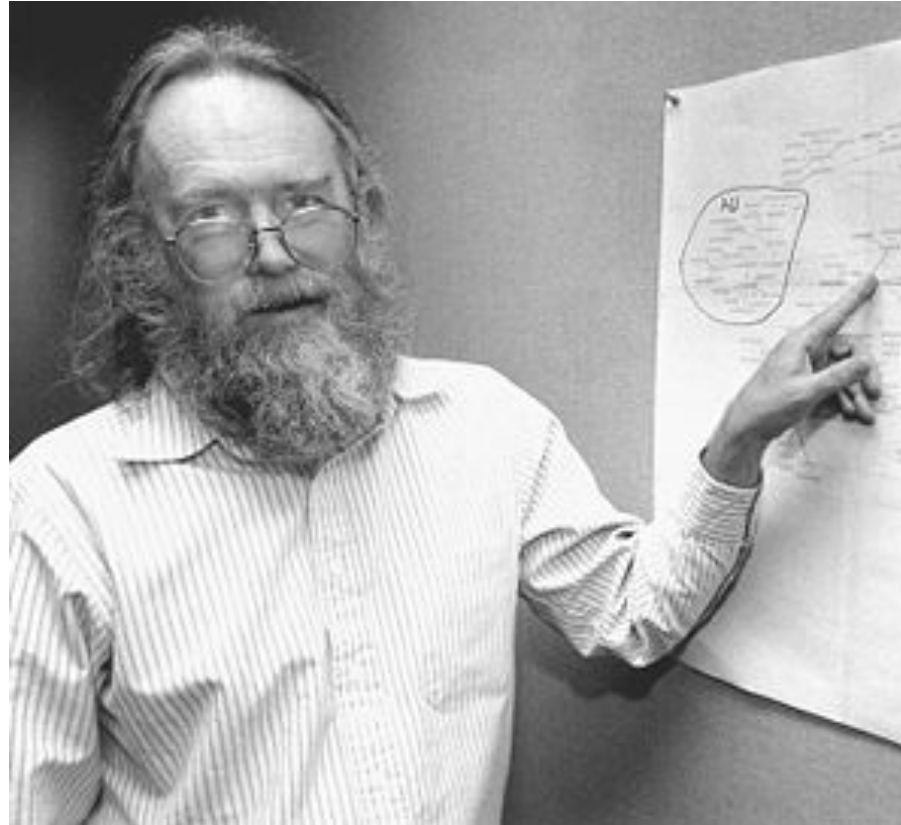
On the History Project pages you will find documents, pictures and videos that helped frame ICANN's history, and an interactive timeline presenting the chronology of significant events.



Learn More ►

<https://www.icann.org/history>

The pre-ICANN Era

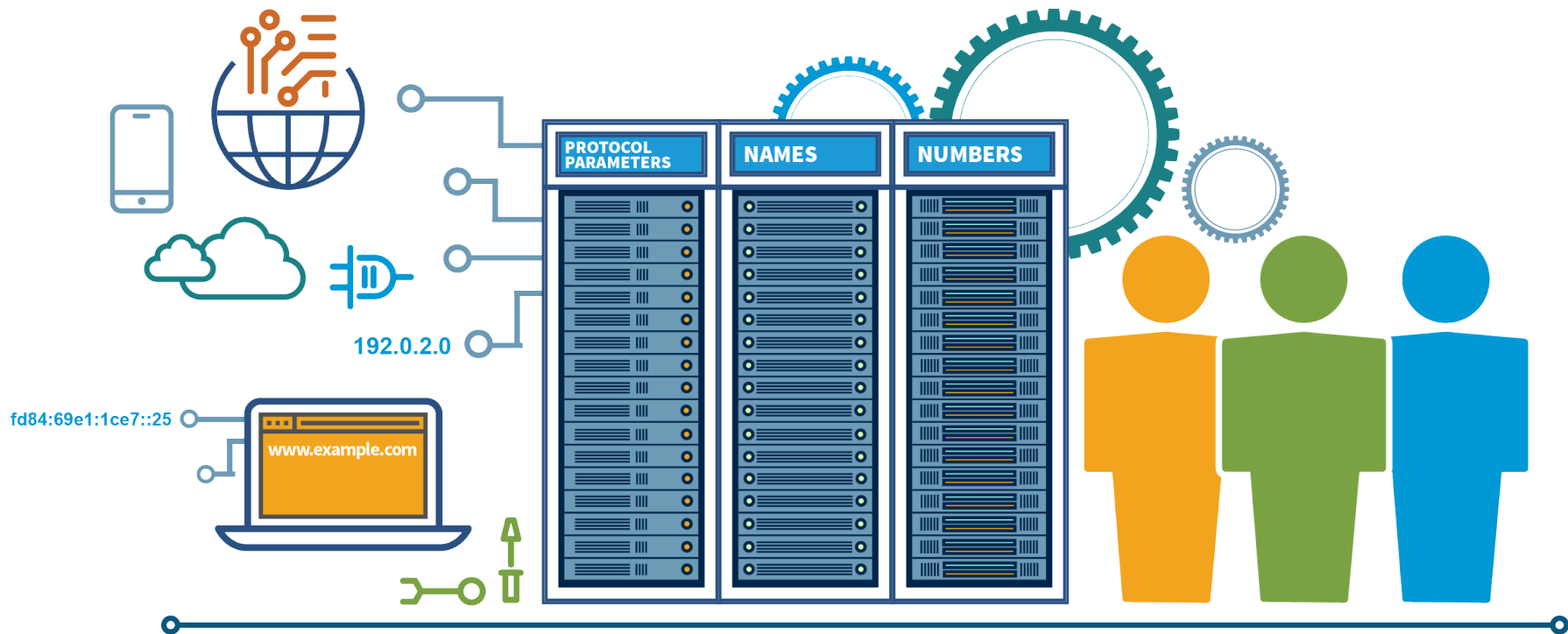


Jon Postel at the Information Sciences Institute (ISI), University
of Southern California (USC)

What is Internet Corporation for Assigned Names and Numbers (ICANN)?

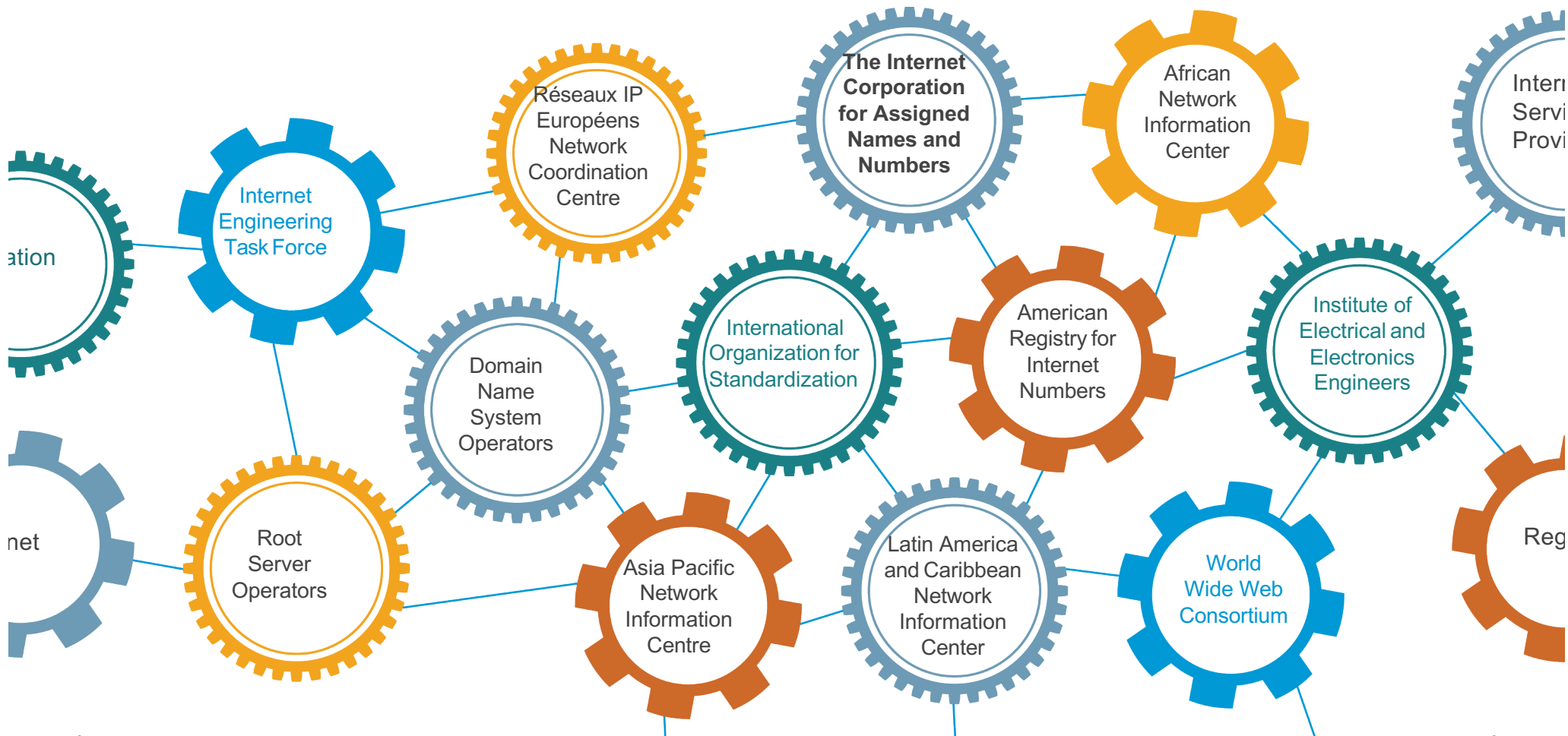
Overview

Coordinating with our partners,
we help make the Internet work.



Our Technical Partners

Coordinating with our technical partners,
we help make the Internet work.



Our Other Partners

We all work together in different ways
to help make the Internet work.



ICANN Ecosystem



Some of What ICANN Organization Does



Domain Name System

The domain name system provides addressing for the Internet so people can find websites, send email, and other tasks. The ICANN organization also supports the stability of the DNS through its work, and also its contracts and accreditations.



Policy Development

The ICANN organization supports inclusive, open and transparent multi-stakeholder bottom-up consensus based policy development mechanisms.



L-Root

The ICANN organization hosts and supports one of the 13 L-Root infrastructures. At over 160 locations worldwide, L-Root is critical to infrastructure that helps reduce latency and improves performance of the DNS.



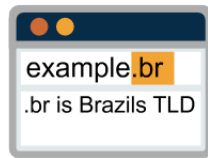
Support and Grow the Community

The ICANN organization engages, nurtures and supports interested stakeholders for active and meaningful participation in ICANN. ICANN connects with stakeholders through outreach and engagement, and meeting & event support.



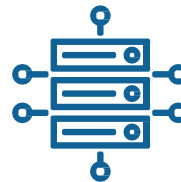
Generic Top-Level Domains

The ICANN organization manages the domain name system's top-level domains. ICANN helps promotes competition and choice in the gTLD marketplace.



Country Code Top-Level Domains

The ICANN organization delegates top-level domains identified with a country code. Management is done by national ccTLD operators.



Protocol Parameters

The ICANN organization, in coordination with the Internet Engineering Task Force, manages protocol parameters by maintaining many of the codes and numbers used in Internet protocols.



Internet Protocol Addresses

By serving as the central repository for IP addresses, the ICANN organization helps coordinate how IP addresses are supplied – preventing repetition and conflicts.

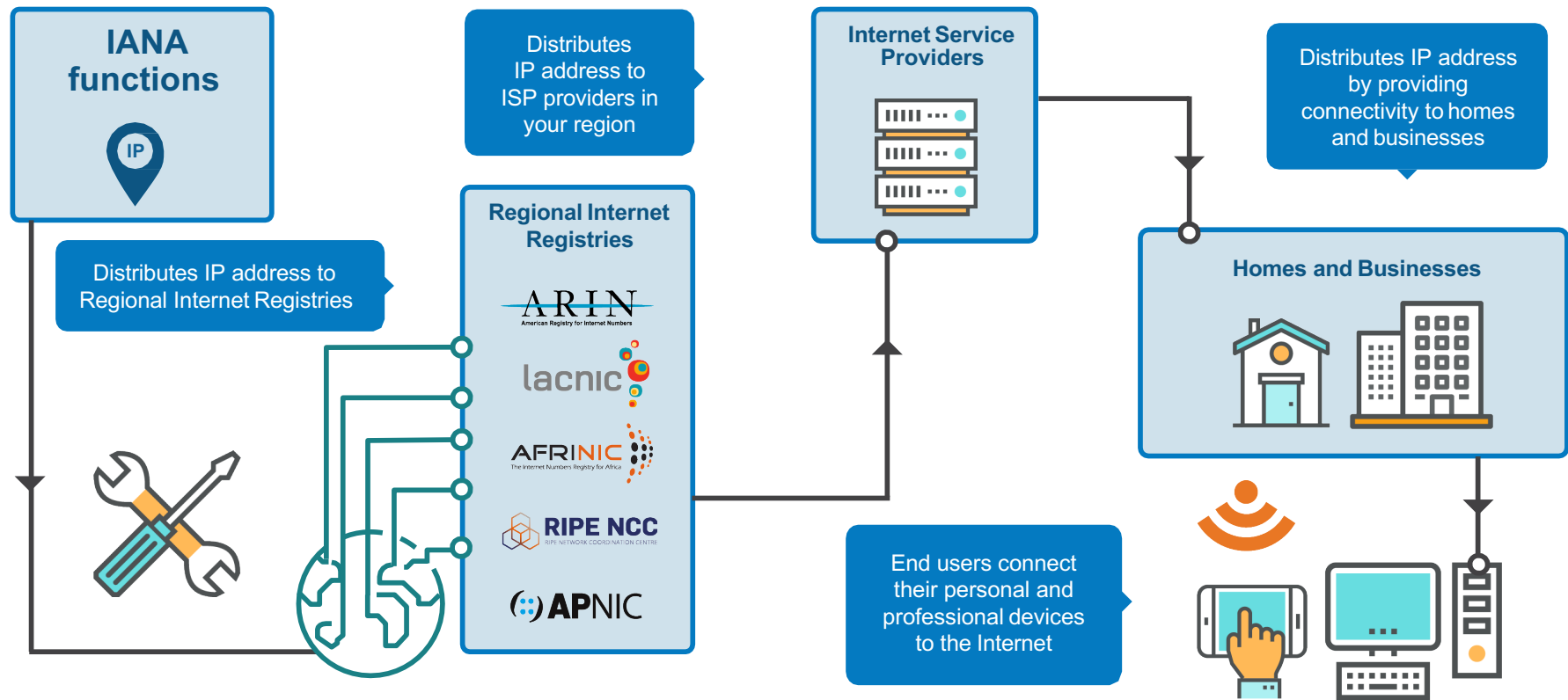


Root Zone Management

The ICANN organization helps manage the root zone through the IANA functions, which involves assigning the operators of top-level domains, such as .bank and .com, and maintaining the technical and administrative details.

IANA functions

How Internet Protocol (IP) Addresses are Distributed



ICANN's Global Presence

Call one of our regional offices or submit a question online



Contact us ►

www.icann.org/contact

Regional Offices:

Los Angeles, U.S.A
(Headquarters)
Brussels, Belgium
Istanbul, Turkey
Montevideo, Uruguay
Singapore

Engagement Centers:

Beijing, China
Geneva, Switzerland
Nairobi, Kenya
Washington, D.C., U.S.A.

Partnership Centers:

Asunción, Paraguay
Cairo, Egypt
Seoul, Republic of Korea

The ICANN Multistakeholder Community

ICANN follows a bottom-up, multistakeholder model in which individuals, non-commercial stakeholder groups, industry, and governments play important roles in its community-based, consensus-driven, policymaking approach.



Learn More ►

<https://www.icann.org/community>

The ICANN Multistakeholder Community

MAKING POLICY:

Three Supporting Organizations (SOs) in the ICANN community are responsible for developing policy recommendations in the areas they represent: IP addresses; generic top-level domains (gTLDs); and country code top-level domains (ccTLDs).

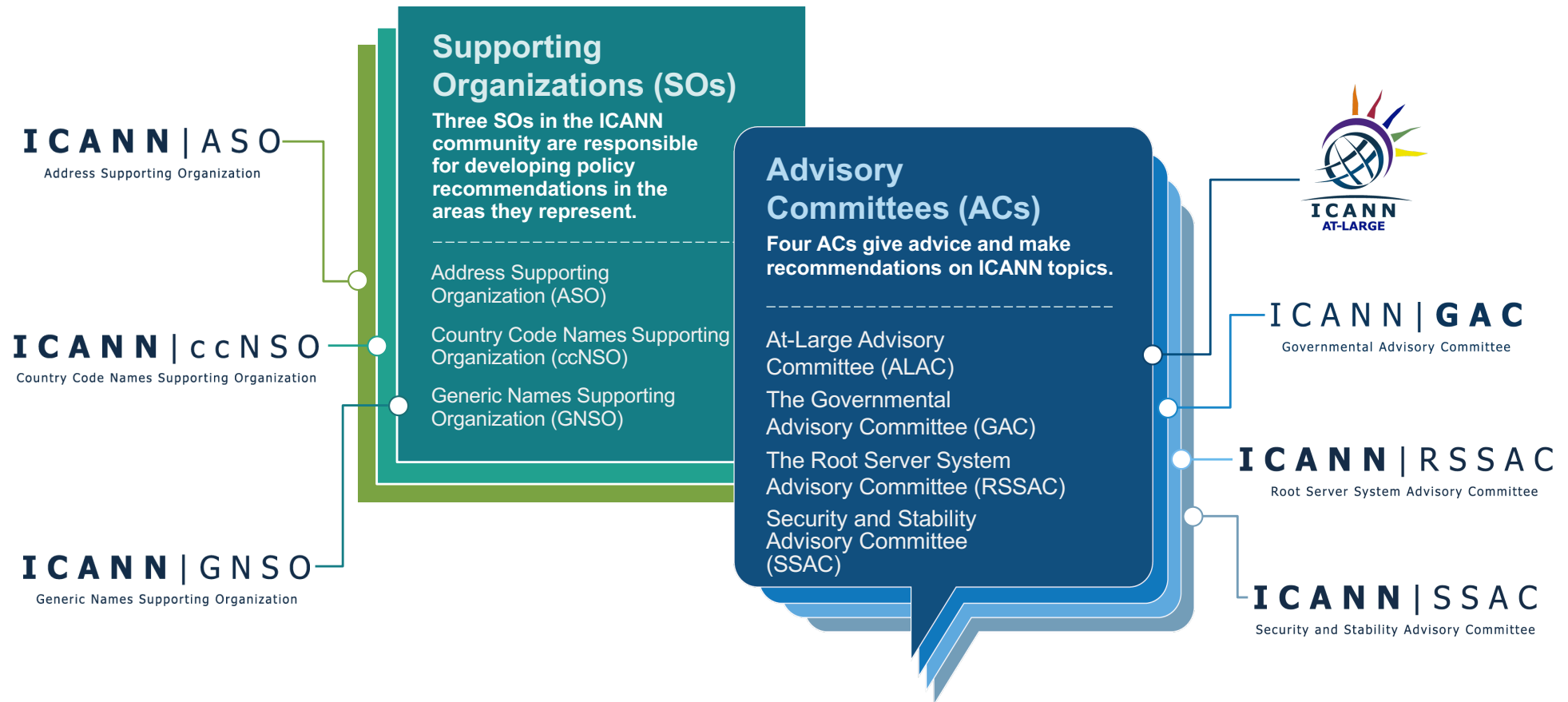


PROVIDING ADVICE:

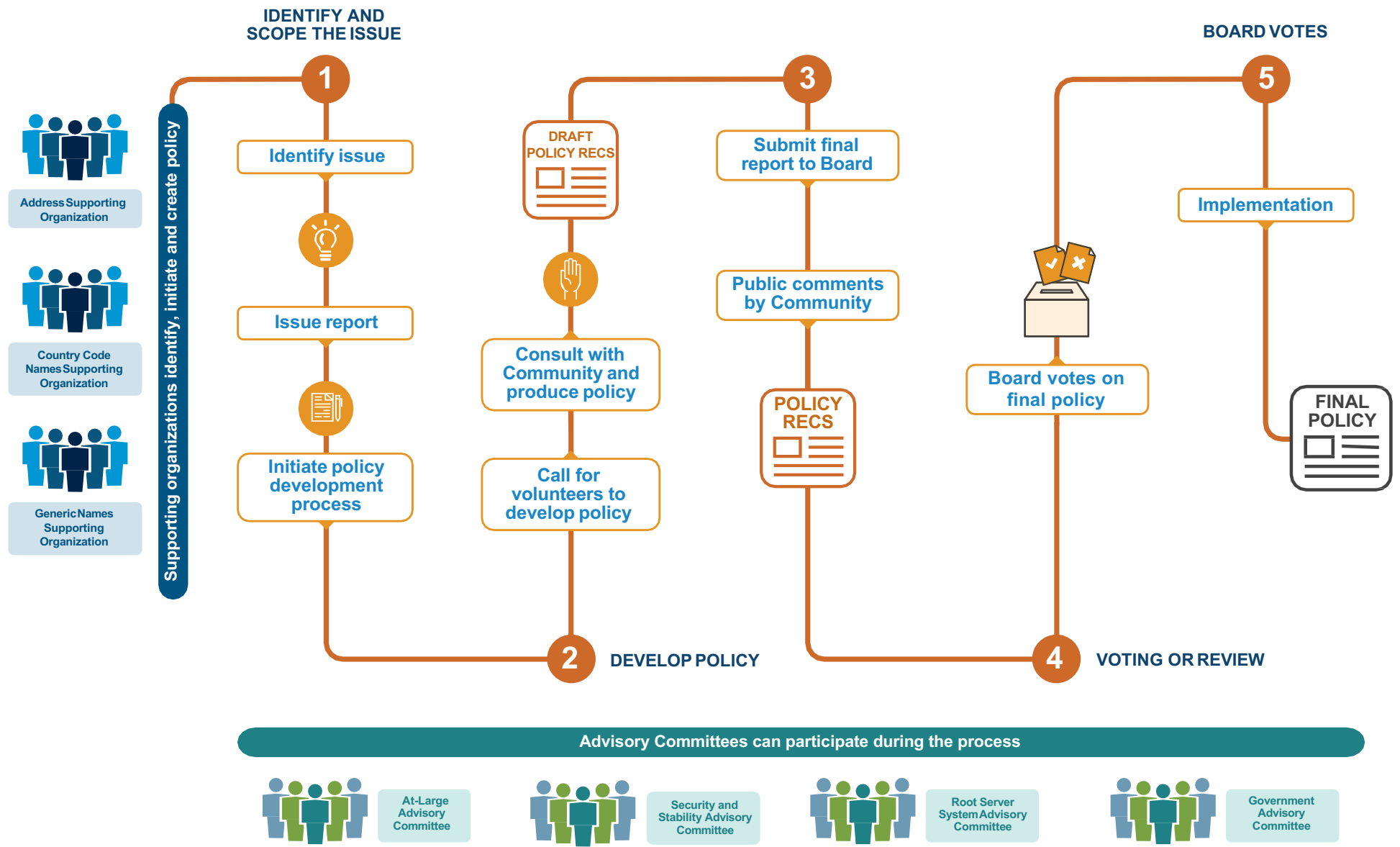
Four Advisory Committees (ACs) give advice and make recommendations on ICANN topics. The ACs are made up of representatives from: governments and international treaty organizations; root server operators; Internet security experts; and Internet end users.



Exploring ICANN's Multistakeholder Community



How Does the Community Develop Policy?



Get Involved and Informed



Attend an ICANN Public Meeting. Three times a year, ICANN holds free and open public meetings in different regions around the world. Visit **meetings.icann.org** to learn more.



Visit **go.icann.org/journey** to learn how you can attend an ICANN Public Meeting as part of the NextGen@ICANN or ICANN Fellowship programs.



Take a free online course at **learn.icann.org**.



Attend events in your region.



Find and participate in an ICANN community group by visiting **icann.org/community**.



Sign up for ICANN news alerts and regional newsletters.

Programs Available

Fellowship

Global Capacity Building Program to support ICANN's Multistakeholder community; online application process 3x year around an ICANN Meeting (1 Mtg for Alumni only)

NextGen

Regionally based Program to create awareness and promote future discussions within universities and other regional forums; online application process 3x a year around an ICANN Meeting

Newcomer

Those just entering the ICANN community can self-educate using the Newcomer webpage or participate in person or remotely at the ICANN Meeting Newcomer Sunday

Video on Fellowship/NextGen: https://www.youtube.com/watch?v=nrV_ZkDEfIQ

Video on Newcomers: <https://www.youtube.com/watch?v=da1RQt9-e-g>

ICANN | LEARN

- ⦿ ICANN Learn presents education and training, across a wide variety of topics that pertain to ICANN, to better educate stakeholders in the ICANN ecosystem.
- ⦿ It is an online platform that is free to access and free to create course content to share with fellow ICANN community members.
- ⦿ ICANN Learn is currently available in the six UN languages.

 Learn more ▶

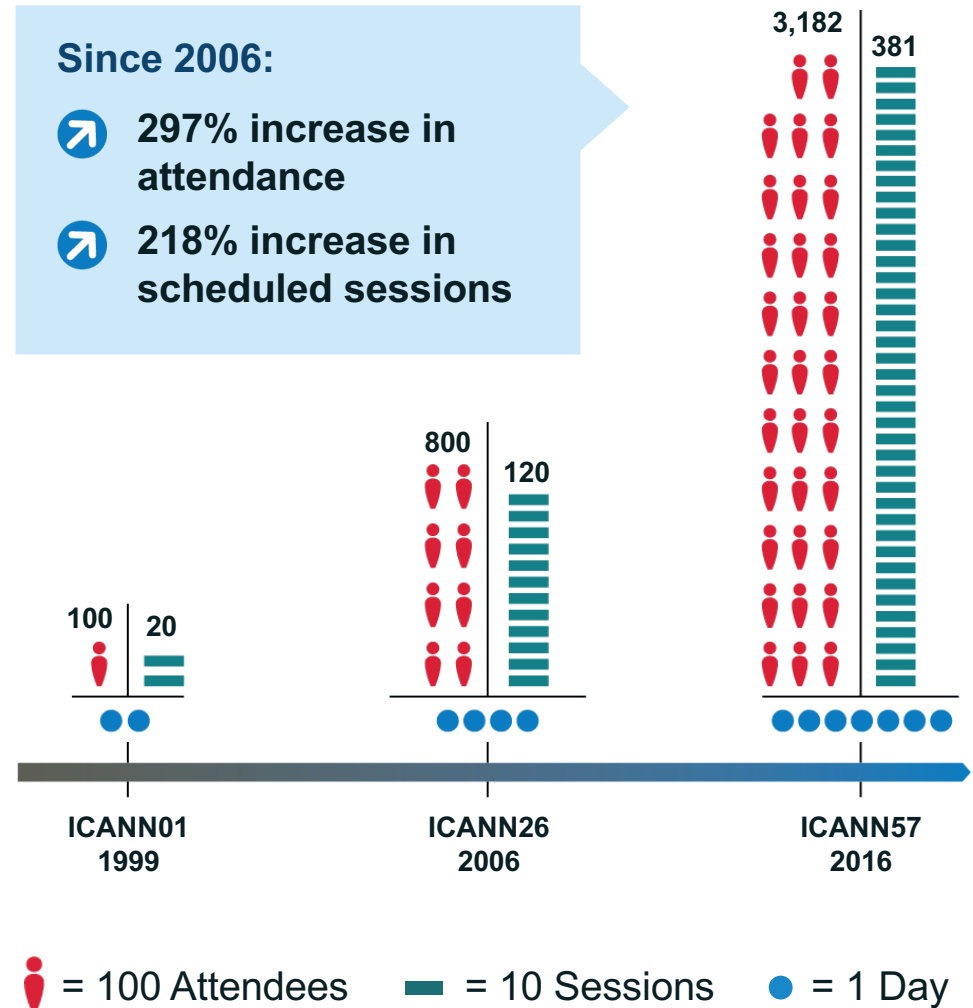
learn.icann.org

ICANN Meetings Overviews

Three times a year, ICANN holds free and open public meetings in different regions around the world.

ICANN Public Meetings provide the opportunity for an internationally diverse group of individuals and organizations to come together to discuss and develop policies for the Internet's naming systems.

ICANN's international meetings have been a staple of ICANN's multistakeholder bottom-up consensus-building model since its formation in 1998.



ICANN62 “Policy Forum” this week

The screenshot shows the ICANN62 Panama City website. The header features a city skyline and the text "ICANN62 PANAMA CITY". Below this is a navigation bar with links: HOME, ATTEND, HOTEL & TRAVEL, LOCATION, PARTICIPANTS, SCHEDULE, and Sign In. A search bar and buttons for MATERIALS, PRINT, and Share are also present. The main content area displays the "Full Schedule" for "Mon, Jun 25th". The schedule is organized by time slots. The 9:00 slot shows two sessions: "ALAC Members Participation in GNSO Subsequent Procedures PDP Discussion in SALON 7" in Salon 6 (ALAC) and "GAC: Opening Plenary and Overview of Weekly GAC Sessions" in Salon 1-3 (GAC). Both sessions are categorized as "General Session / Plenary". The agenda for the GAC session includes a welcome message from GAC leadership.

ICANN62 PANAMA CITY

HOME ATTEND HOTEL & TRAVEL LOCATION PARTICIPANTS SCHEDULE Sign In

SEARCH MATERIALS PRINT Share

Search...

Full Schedule My Schedule View as: Tiles Day

Sun, Jun 24th Mon, Jun 25th Tue, Jun 26th Wed, Jun 27th Thu, Jun 28th

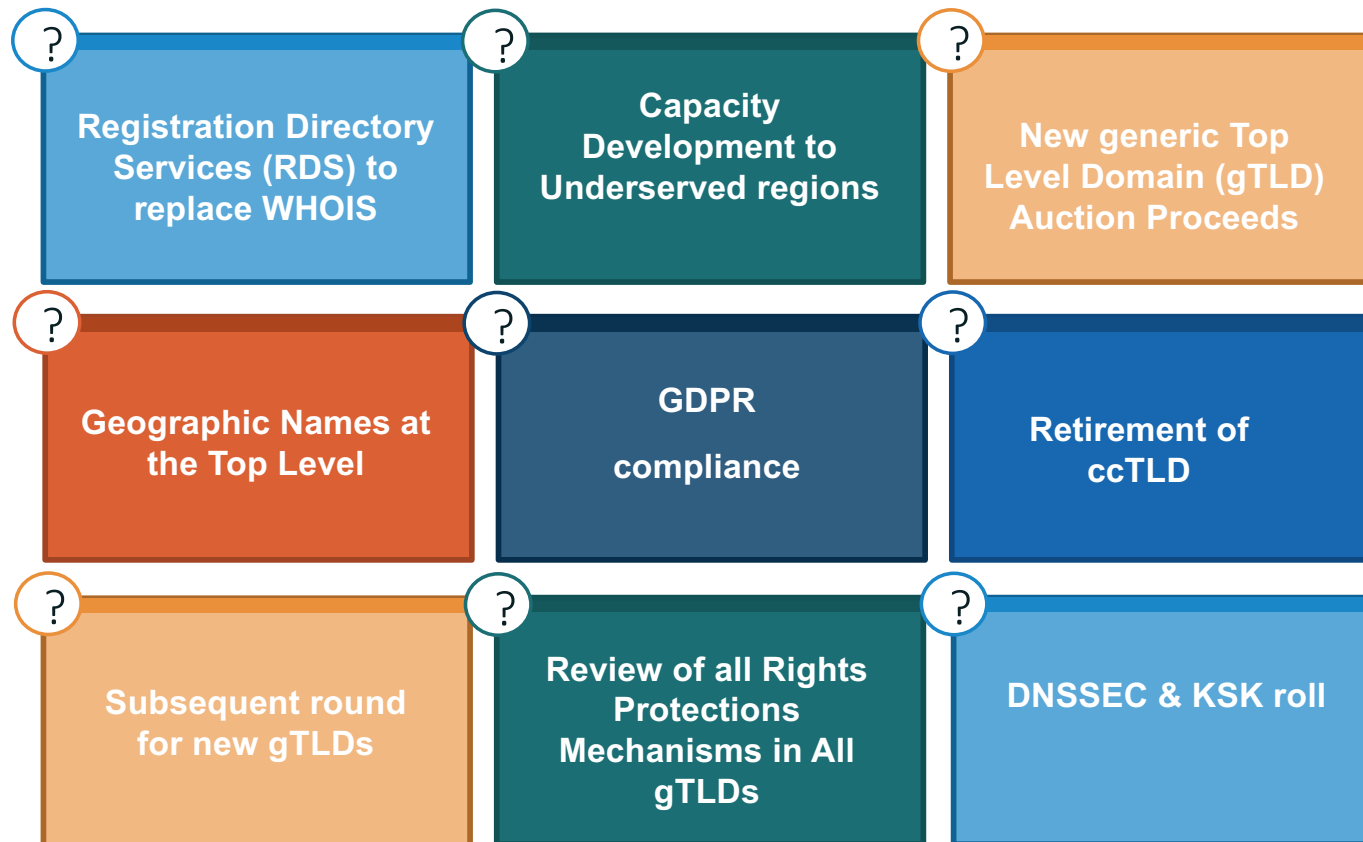
▼ 9:00

9:00 – 12:00 Salon 6 (ALAC)
ALAC Members Participation in GNSO Subsequent Procedures PDP Discussion in SALON 7
General Session / Plenary
Agenda:
<https://62.schedule.icann.org/meetings/65>

9:00 – 10:15 Salon 1-3 (GAC)
GAC: Opening Plenary and Overview of Weekly GAC Sessions
General Session / Plenary
The GAC leadership will welcome GAC Members to the ICANN62 Meeting and give

- Remote participation available for live sessions or check recordings

Sample topics of discussion at ICANN62



What are Domain Names?

Why Domain Names?

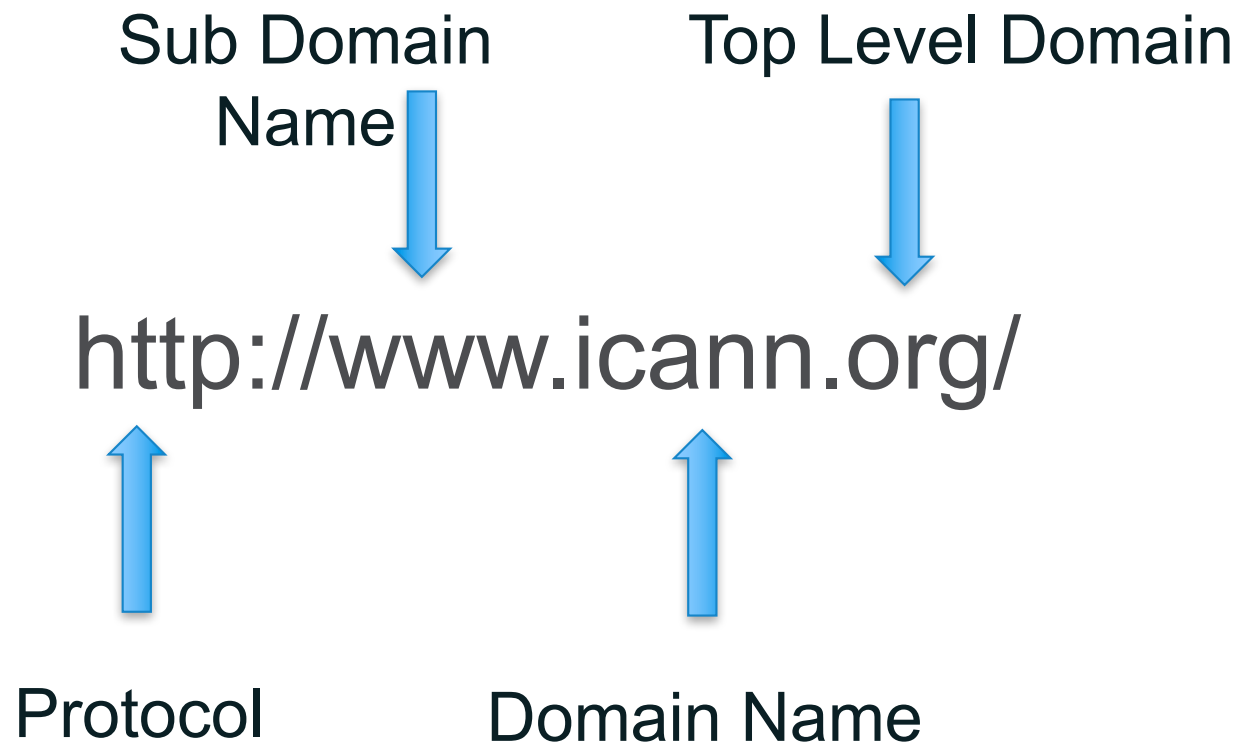
- Which is easier to memorize?

<http://www.icann.org/>

or

192.0.32.7

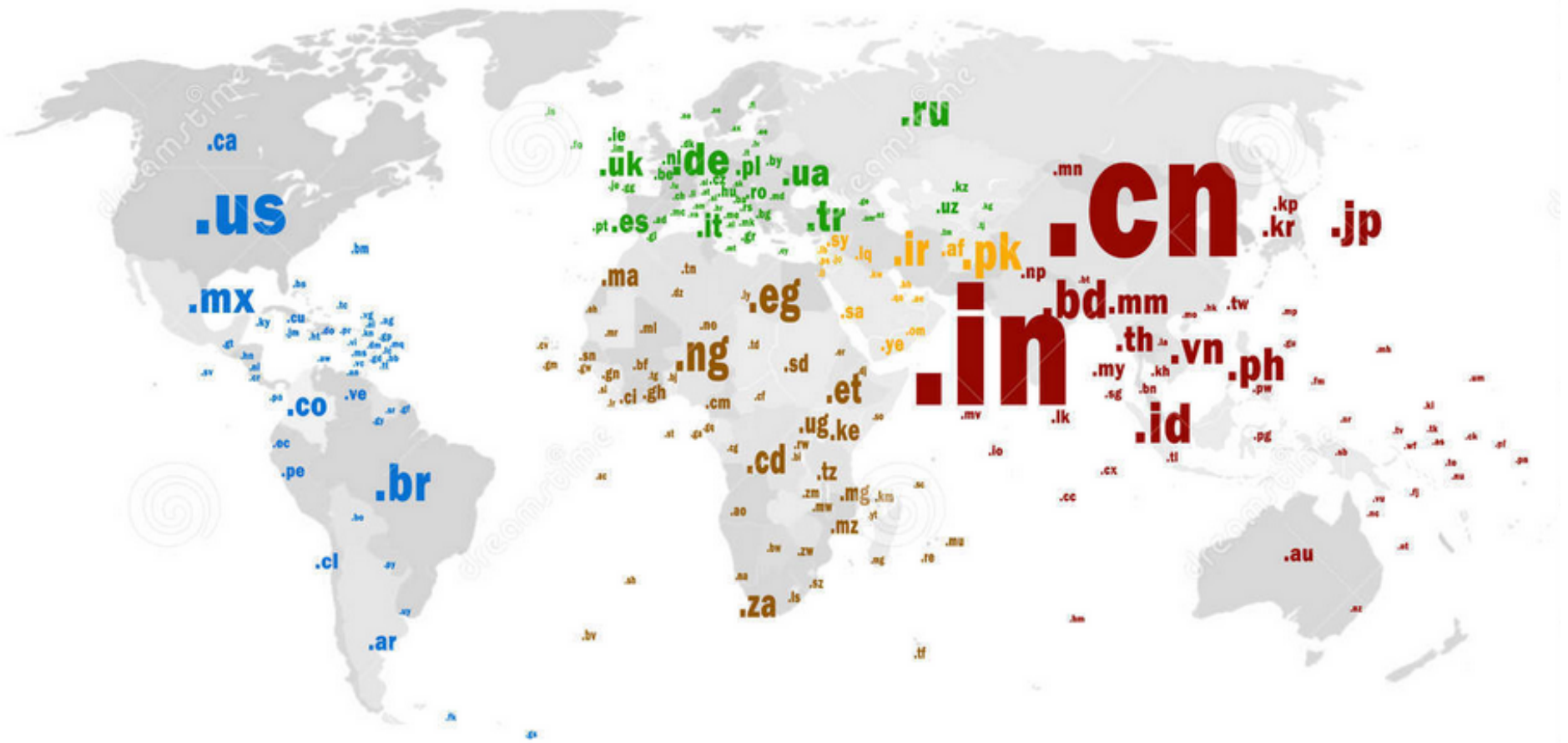
Parts of a Domain Name?



Top Level Domains (TLDs)

- Exists at the highest level of the DNS hierarchy
- It is the entry installed into the root-zone
- Consists of various groups:
 - ccTLDs (.sb, .tv, .fm, .to, .fj, .ki)
 - gTLDs
 - Sponsored (.asia, .cat)
 - Un-sponsored (.com, .net, .org)
 - New (.apps, .shop, شبكة, موقع)
 - IDN TLDs (.ابوظبي, .بازار, .عمان)

Country Code TLDs (ccTLD)



Source at <http://dreamstime.com/>

Where do ccTLDs get Their Code From?

- The ISO-3166 provides 2-letter codes and 3-letter codes of countries or a grouping of countries
- 249 assigned 2-letter codes
 - According to the UN, the world has 196 countries
- More at <https://www.iso.org/obp/ui/#search>

What are IDNs?

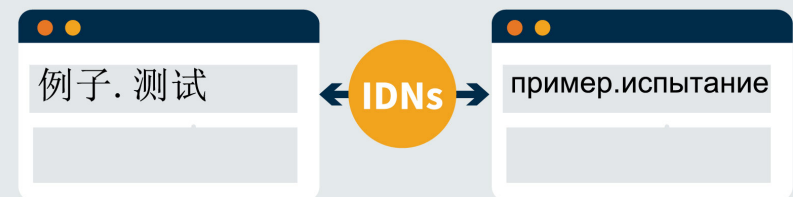
An Internationalized Domain Name (IDN) uses a particular encoding and format to allow a wider range of scripts to represent domain names.

Until late 2009, Top-Level Domains were restricted to only the Latin letters a to z without accents or symbols. After 2009, IDN TLDs were introduced in other scripts including Arabic, Chinese and Cyrillic scripts.

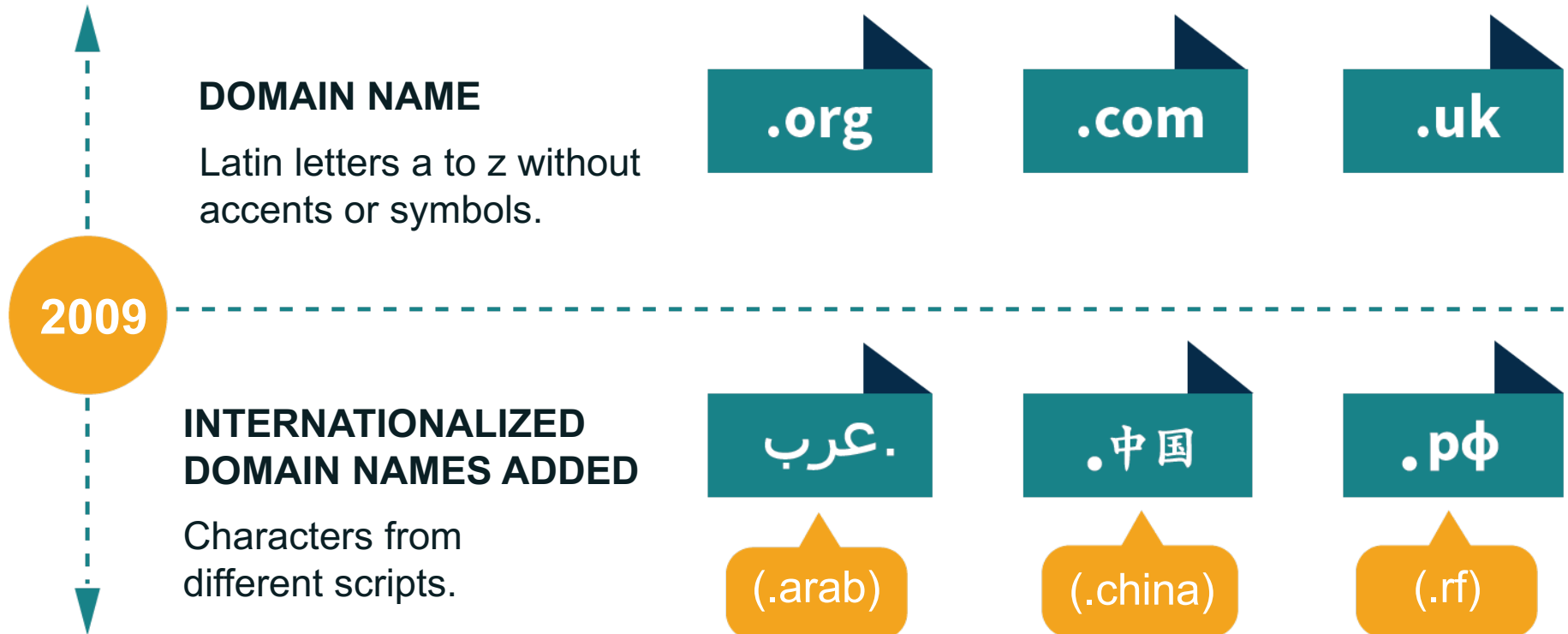
IDN TLDs can be either ccTLDs or gTLDs.

Internationalized Domain Names

Domain names with non-Latin characters or Latin characters beyond letters (a to z) digits (0 to 9) and hyphen (-), as allowed by relevant protocols.



What has changed with Top-Level Domains?



Why Internationalize Domain Names?



More and more people around the world, once unconnected, are online.

Number of Internet Users Worldwide*



2000

413M



2016

3.4B



2020

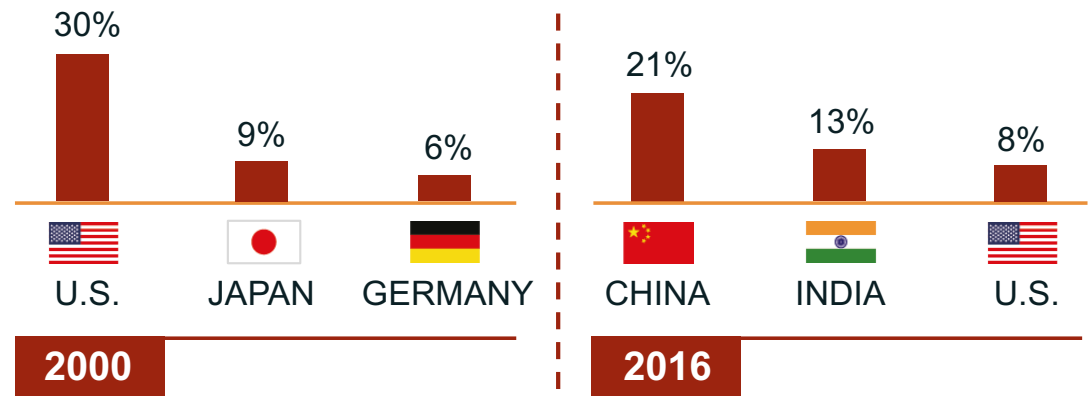
5B expected

More language communities join



IDNs allow people around the world to access domain names in their local languages.

Top Three Countries by % of Total Global Internet Users*



*Source: Internet Live Stats (www.InternetLiveStats.com) 2016

New gTLD Program

What is the New gTLD Program?

The goal of the New gTLD Program is to foster competition, innovation and choice in the domain name industry.



- ⦿ This is an Internet community-driven initiative that is enabling the largest expansion of the domain name system, ever.
- ⦿ The New gTLD Program is managed by ICANN, which means it has taken shape through the multistakeholder model.
- ⦿ Over **1,200** new generic top-level domains have now been introduced into the Internet over the next few years.

What is the New gTLD Program?

**Largest-ever expansion
of the Domain Name System**

Innovation

**Introduction of
Internationalized Domain
Names**

Global restructuring

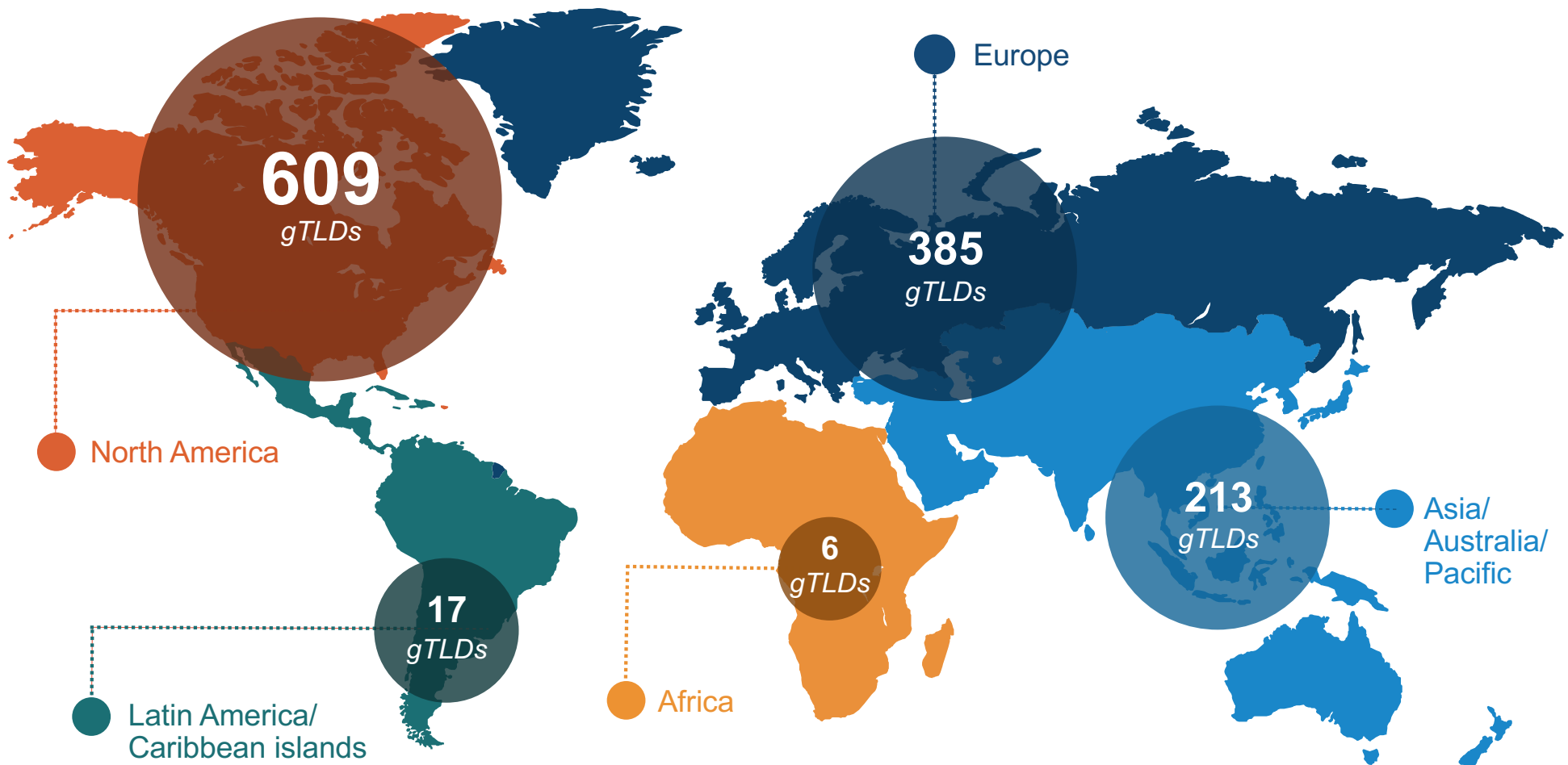
**Managed by ICANN =
Multistakeholder input**

Security & stability

2012 Round Delegated gTLDs by ICANN Region

1230 Delegations as of May 2018

Region based on [Registry Public Contact](#)



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Universal Acceptance

Definition

All domain names should be treated equally.

Including:



пример.рф

Internationalized
Domain Names



site.example

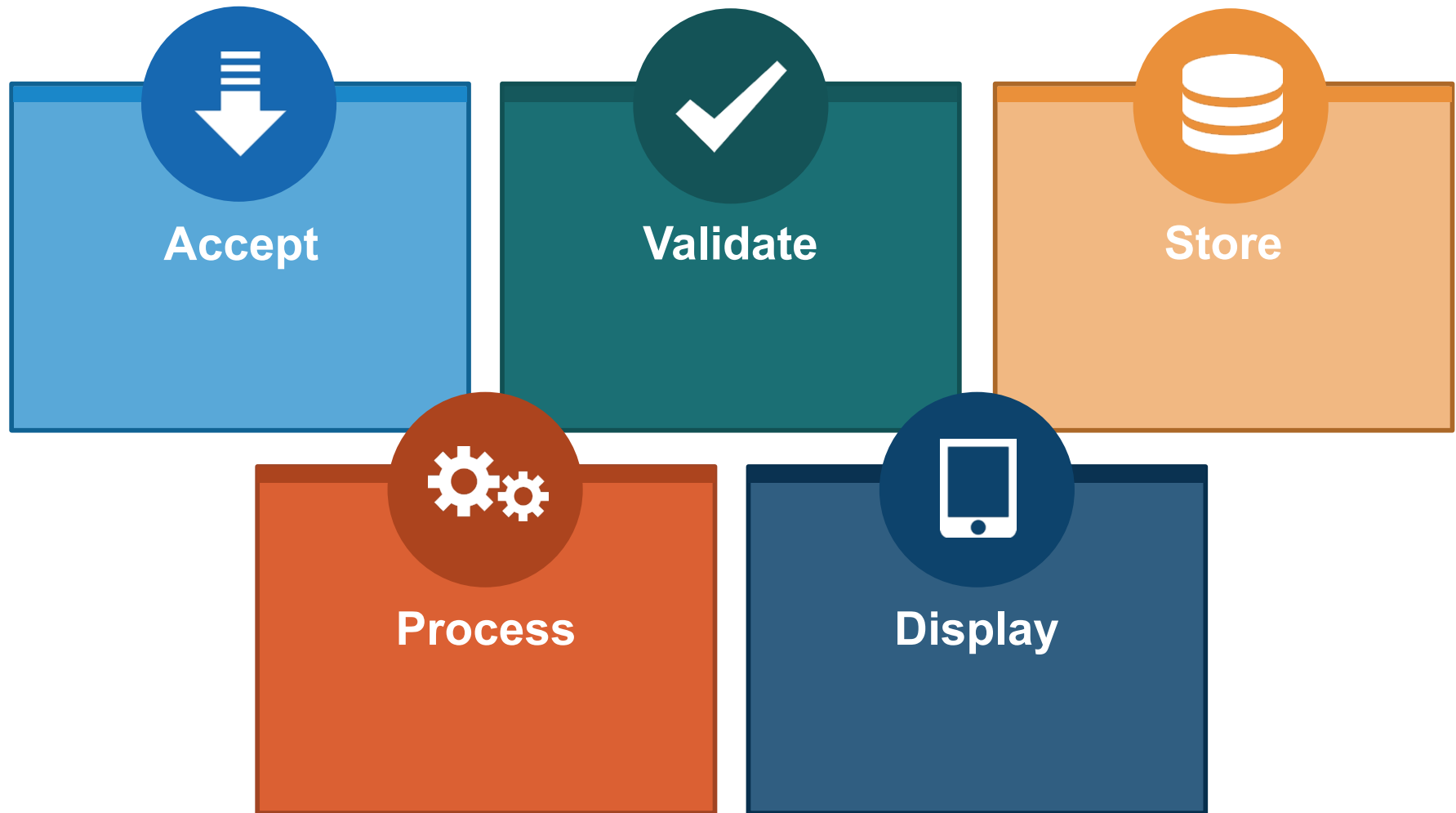
New gTLDs



名称@网站.域名

Internationalized
Email Addresses

Key Principles of UA Readiness



The Role of Universal Acceptance

UA-ready

<p>http://soap.organic</p> <p>Welcome to organic</p> <p>SOAP</p> <p>We make the best soap in the world. It's 100% organic.</p>	<p>http://tokyo.ストア</p> <p>TOKYO</p> <p>当社の製品を購入します</p> <p>🕒 ☆ 🚀 📺 📷 🏆</p>	<p>http://bank.com</p> <p>Bank</p> <p>Email 测试@普遍.世界</p> <p>✓ Email validated. Account created.</p>
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Not ready

<p>http://soap.organic</p> <p>✗</p>	<p>http://tokyo.ストア</p> <p>✗</p>	<p>http://bank.com</p> <p>Bank</p> <p>Email 测试@普遍.世界</p> <p>✗ Not a valid email address.</p>
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Get Involved



Universal Acceptance Steering Group

Helping software developers and website owners understand how to update their systems.

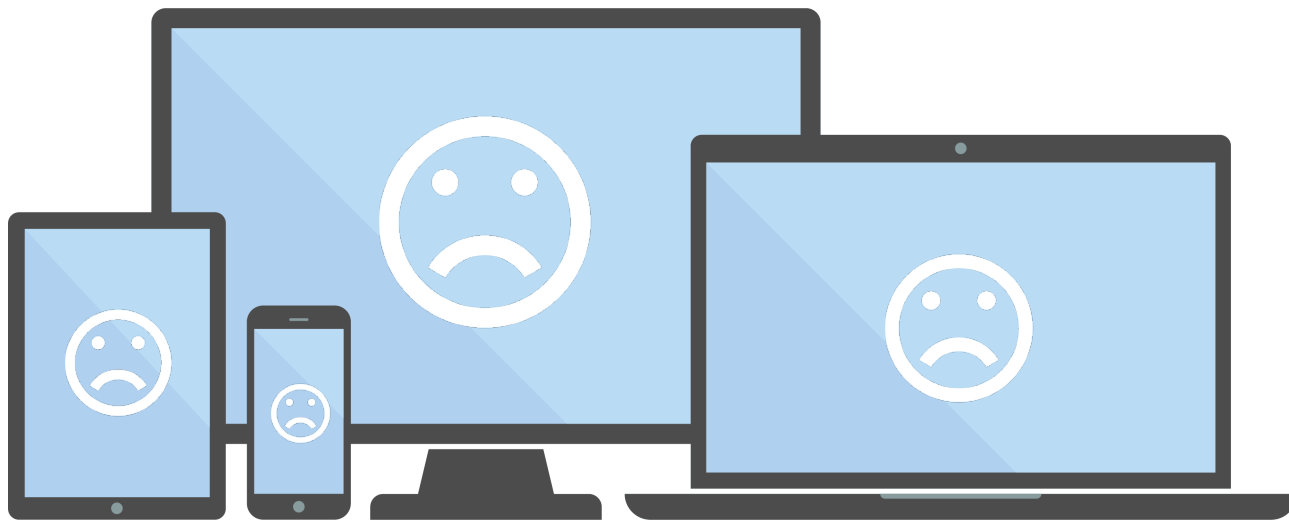


Learn more ▶

<http://uasg.tech>

Report an Issue

Found an application or system that's not Universal
Acceptance-ready?



Submit a ticket ▶

uasg.tech/global-support-centre

Domain Names and Entrepreneurship

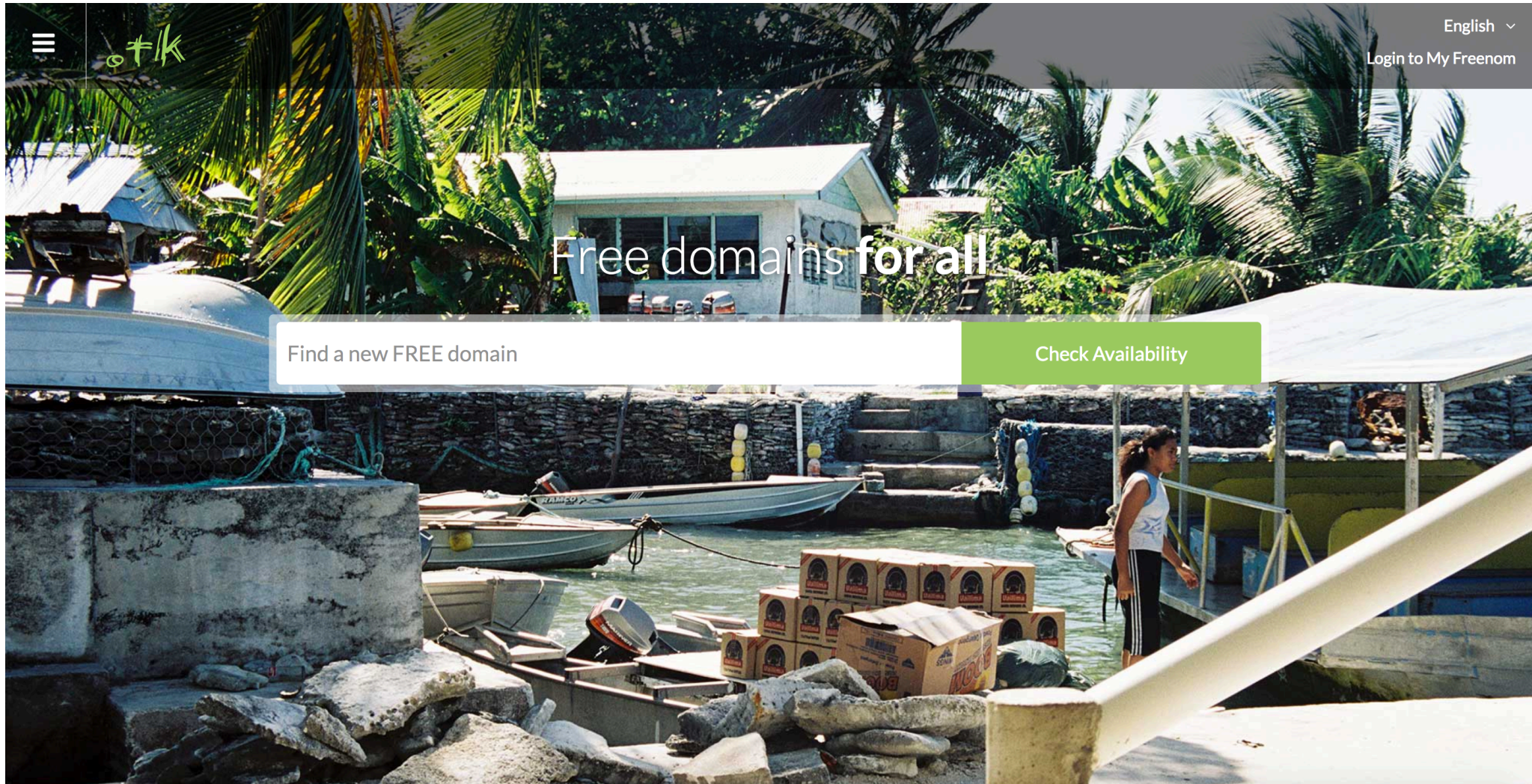
Registry/Registrar/Registrant

- **Registry** – The entity that operates a TLD
- **Registrar** – A middle-agent that sells domain names to registrants on behalf of a TLD Registry
 - ICANN Accredited Registrar vs. Resellers
 - ccTLDs vs. gTLDs
- **Registrant** – Entity registering a domain name


Levels of Entrepreneurship in the DNS Industry

- + Entrepreneurship at the ccTLD Level
- + Entrepreneurship at the gTLD Level
- + Entrepreneurship at the Registry Level
- + Entrepreneurship at the Registrar Level
- + Entrepreneurship at the Domain Name Level

Entrepreneurship at the ccTLD Level




Entrepreneurship at the ccTLD Level

WHAT'S .CO? WHO'S USING IT  MEMBERSHIP PERKS FIND YOUR .CO

With a .CO domain,
you get more than just a web address.

It all starts with your idea.


FIND YOUR .CO



Next
↓

Entrepreneurship at the ccTLD Level

[.Me success stories](#)[Premium domains](#)[Partners](#)[Blog](#)



.ME[Search](#)

.ME is about YOU

You are one step away from owning the domain name of your dreams.
Personalize your blog, business or website. The possibilities are endless. Get creative!

[Personalize your business with .ME!](#)

Entrepreneurship at the gTLD Level

[About .xyz](#)[Registrars](#)[WHOIS](#)[Contact Us](#)[gen.xyz](#)[Report Abuse](#)

For every website, everywhere[®]



Get your .xyz domain name now

www.gen.xyz



We are the Registry Operator for .xyz domain names.

Entrepreneurship at the gTLD Level



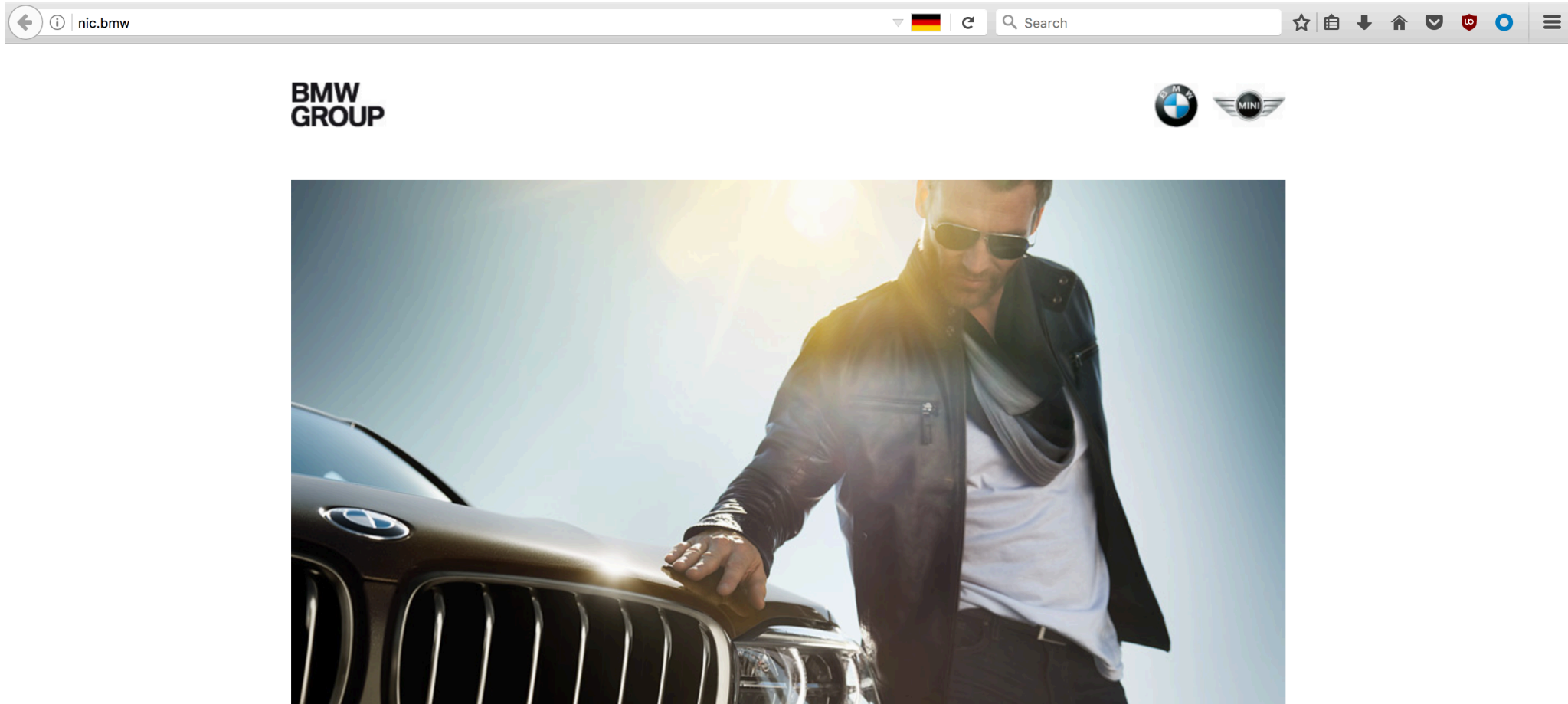
[HOME](#) [COMMUNITY](#) [RESOURCES](#) [REGISTER](#) [NEWS](#) [ABOUT](#)



Get To Know .buzz

Inspire others to think differently, that is the mission of our customers and one that we embrace. We are the **.buzz** domain registry, the

Entrepreneurship at the gTLD Level



Registry Operator Website for the .BMW Top-Level Domain

This is the official Registry Website of the .BMW top-level domain name. Bayerische Motoren Werke AG is the ICANN approved registry operator of the .BMW top-level domain.


Entrepreneurship at the gTLD Level

Barclays Bank PLC (GB) | https://www.home.barclays

Barclays uses cookies on this website. They help us to know a little bit about you and how you use our website, which improves the browsing experience and marketing – both for you and for others. They are stored locally on your computer or mobile device. To accept cookies continue browsing as normal. For more information and preferences go to the [cookie policy \(new window\)](#). You will see this message only once.


BARC.L 212.65p ↓ -1.05

Contact Us [UK online banking](#)

 **BARCLAYS**

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• LEADERSHIP

Charity challenge

Head of Charities Kathleen Britain on helping not-for-profits become future-proof.

[Read full story >](#)

• COMMUNITY

Why Barclays is giving space to credit unions

• GROWTH

Untapped Unicorns: scaling up female entrepreneurship

Entrepreneurship at the gTLD Level


dotBERLIN GmbH & Co. KG (DE) | https://dot.berlin

Die Hauptstadt-Domain Das Unternehmen News Presse Kontakt Shop


Zuletzt registriert: hihiteamx.berlin joker-druck.berlin möbel-restauration.berlin blizz.berlin 59285 .berlin Domains

Jetzt .berlin-Domain registrieren!


Jetzt Wunsch-Domain eingeben Frei?




Domain mit
Stadtviertel



Einfacher suchen,
schneller finden!



Weniger ist mehr
Viel mehr und schneller



Deine Stadt, Deine
Domain

Entrepreneurship at the Registry Level

[ABOUT](#)[POLICY](#)[CRS](#)[PATRONS](#)[CONTACT](#)

CoCCA is an internet infrastructure support company. The software we author and maintain is used by 53 national internet registries (representing one in five national registries) and seven generic Top Level Domain (gTLD) registries.

CoCCA also provides policy development assistance and complaint resolution services (CRS).

TOOLS

[WHOIS](#)[AuthCode](#)[Drop List](#)[WIKI](#)[Software](#)

NEWS

[2016](#)[2015](#)

Entrepreneurship at the Registry Level



Search...



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Introducing FRED

FRED is open-source software for running domain and ENUM Registry, developed by CZ.NIC, the .CZ and 0.2.4.e164.arpa domain Registry.

DOWNLOAD

News

[Argentina introduced the Czech system FRED for the administration of its internet domains](#)

2016-08-01

[Press release] The Argentinian national domain registrar will use the Czech registration system FRED (Free Registry for ENUM and Domains) for the administration of its ...

[More news »](#)

Entrepreneurship at the Registrar Level

a **web.com** company

Order Now: 1-866-908-3442 [Support](#) [Renew Services](#) [Cart \(0\)](#) [Manage Account](#)

[Log In](#)

[All Products](#) > [Domain Names](#) [Websites](#) [eCommerce](#) [Hosting & SSL](#) [Professional Email](#) [Online Marketing](#)

[Search](#)

Great *new domains* are here.

Get the domain you always wanted.

Register yours today before someone else takes that perfect name.

Now available .guru, .repair, .nyc, and many more!

[Search New Domains](#)

Secure & Reliable

Custom

Lead Generation

Entrepreneurship at the Registrar Level

United Kingdom - English ▼ GBP ▼

24/7 Support: 020 7084 1810

Help

Sign In ▼



United Kingdom

Domains

Websites

Hosting

Web Security

Online Marketing

Email & Office

Promos

GoDaddy Blog

Pro

Find your perfect domain name

Search Domain

.com £0.99*

.uk £1.00

.org £6.99*

.co £0.99

.co.uk £1.00

Join the .uk family with our best deal ever. £1.00 for 1st year — no limit!



Built for business.

One of the most popular and well-established domains in the world.

£7.99 **£1.00/1st yr**

Find Your .co.uk



Keep it short.

Simple, memorable domain for businesses and individuals in the UK.

£7.99 **£1.00/1st yr**

Find Your .uk



Promote your cause.

Created to help UK charities and non-profits make the world a better place.

£7.99 **£1.00/1st yr**

Find Your .org.uk

Entrepreneurship at the Registrar Level

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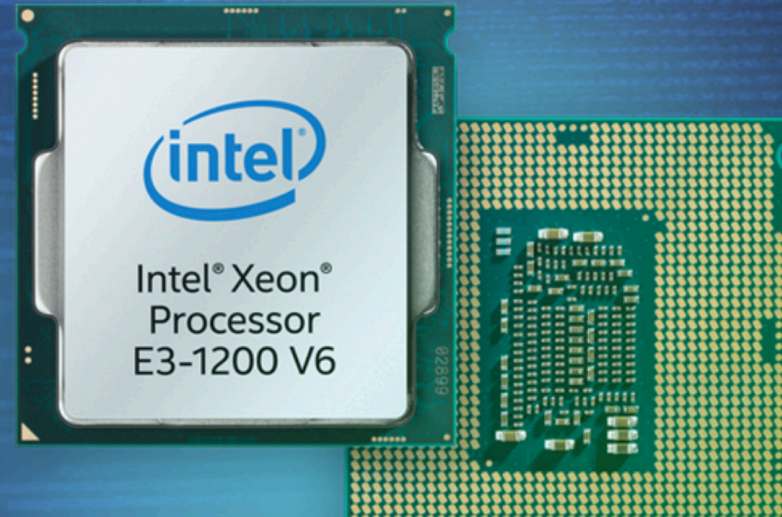
[Startup accelerator](#)

[About](#)

Brand new Intel® Xeon® E3 v6 processors

Improved processor speed and enhanced memory to support small business servers.
Now available within our dedicated ranges.

[Discover our servers](#)



Find your [domain name](#)

[ORDER/TRANSFER](#)

[RENEW](#)

Entrepreneurship at the DN Level

Domain Name	Price (USD Million)	Year of Selling
Insurance.com	35.6	2010
VacationRentals.com	35	2007
PrivateJet.com	30.1	2012
Internet.com	18	2009
360.com	17	2015
Insure.com	16	2009
Hotels.com	11	2001
Fund.com	9.99	2008
FB.com	8.5	2010
Business.com	7.5	1999
Diamond.com	7.5	2006

**** Note: DNSSEC & KSK roll
to be covered in afternoon
session**

Engage at ICANN

?

Do you want to be in the vanguard of Internet expansion into new markets?

?

Do you want to shape open standards development and new technology?

?

Do you already devote resources to lobbying about Internet policy at the global level?

?

Do you already devote resources to lobbying about Internet policy at the national level?

?

Do you want to shape policy at the global level and know what is on the horizon?

?

Do you know if your competitors are already participating?

?

Do you want to be part of a growing and active community?

?

Do you see the Internet as a global shared resource worth supporting?

?

Do you want to defend the multistakeholder model?

Engage with ICANN



Thank You and Questions

Visit us at icann.org

Email: save.vocea@icann.org



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facebook.com/icannorg



youtube.com/icannnews



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