

Awareness raising & Market education

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*4th International conference for ccTLD
registries and registrars of CIS, Central
and Eastern Europe*

Novi Sad, Serbia

15 September 2011



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CENTR, the European ccTLD organisation

CENTR

Council of European National Top Level Domain Registries

the European ccTLD organisation



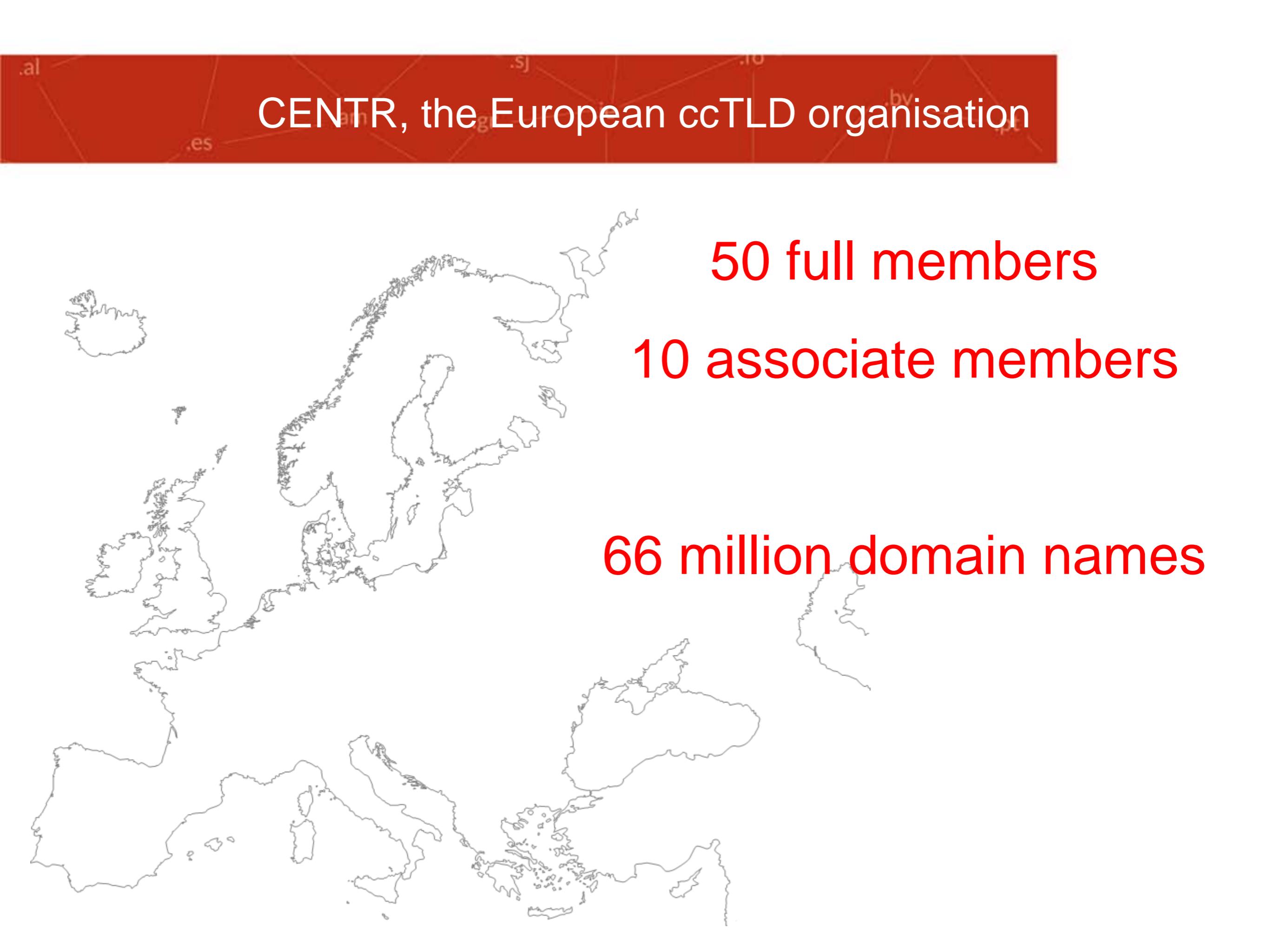
CENTR, the European ccTLD organisation

CENTR

Information & best practice platform

on and for ccTLD registries

CENTR, the European ccTLD organisation



50 full members

10 associate members

66 million domain names

CENTR, the European ccTLD organisation

General
Assembly

Marketing
workshop

Administrative
workshop

Technical
workshop

Legal &
Regulatory

IGF
workshop



CENTR, the European ccTLD organisation



CENTR has produced an informative movie to explain the functioning of the Domain Name System (DNS).

AUGUST 2011

MONTHLY ROUND UP

MEMBER NEWS HIGHLIGHTS

- (a) Renewed website: The DNS.be website has a new look!
- (a) Member: IINTECH needs to block lower websites for an IP address that has been used to host websites that spread malicious software and malware. As of 2011, SWITCH only had to block half as many websites as in the Q1, thanks to the cooperation with other routing providers.
- (a) Google's .com progress report available: As its move to multi-year renewals has proved popular, renewals for the .com domain have increased. Renewals issued today by the .com registry, ICANN, 12.3% of all .com registrations during Q2 2011 were for longer than one year.
- (a) APNIC welcomes the publication of the device on the new APNIC terms of service: The new terms of service, which specify the conditions for application of the law of March 22, 2011 have been published in the Official Gazette.
- (a) EDRON signs off the CARNet test: Research and Development Center for Computer Emergency Response Team was established within the Croatian Academic and Research Networks - CARNet.
- (a) Asia Pacific Internet Bill Performance Analysis: APNIC reported continued strong core trading performance for 2010 with overall continued growth in domain registration, and increased Members' funds enabling ICANN to invest further.
- (a) APAC: Exceptional Growth in Domain Registrations: It's been three years since the APAC Registry first launched open registrations of the Mongolian country code Top Level Domain on July 27, 2008.
- (a) CENTR in the domain name policy: A new clause certifying World's policy regarding access to historical data.
- (a) Report for second quarter of 2011, concerning domain names invested in French (.fr)

Survey Summary: "DNSSEC Implementation Consultation"

DNSSEC Implementation Status (1 August 2011)

Of the 21 respondents, 5 (23%) already have DNSSEC fully operational, 8 (38%) are in experimental/trial phase and 9 (43%) have announced implementation however have taken no further steps.

Implementation Status	Percentage
Announced/no further work needed	23%
Pilot/operational	15%
Experimental/trial	38%
Pending full implementation as of 2012.6	43%

What was consulted upon for DNSSEC Implementation

Consultation Type	Percentage
Security concerns	6
Key signing	4
Threatened users	4
Standardization and chronology	2

External Consultation when developing DNSSEC Policy

Consultation Type	Percentage
Did not conduct (or plan to conduct) external consultation	14
Planning to or have already conducted consulting	86

Other

- Public, 2
- Key Stakeholders, 5

CENTR Statistics

DOMAIN COUNTER: 58,543,673 End of AUGUST 2011

This is the domain count for the end of August 2011. This represents a growth of 3.78% from the previous month. The legend indicates that this growth is in absolute value web .de

CENTR REPORTS

CENTR Comment on non-peer "sectoral criteria to identify European infrastructures in ICANN". Report on the IETF-SA, Canada

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IDN Top Level Domains

Top Level Domains
.de
.at
.es
.fr
.it
.nl
.pl
.uk
.ch
.de
.at
.es
.fr
.it
.nl
.pl
.uk
.ch

SUMMARY

This paper aims at introducing the reader to Internationalized Domain Names (IDNs) and providing an overview of the reasons why the implementation of IDNs was necessary. It also explains the different processes that lead to their introduction in the Domain Name System (DNS) root zone and provides an overview of the current situation.

INTERNATIONALIZED-DOMAIN-NAMES:WHAT-&-WHY? 01

At the time of the introduction of the Domain Name System, designers of the DNS (and its predecessor, the "host.txt" file) wanted to allow for non-ASCII¹ characters to be used within the system, but the technology in use at that time was simply not powerful enough to accommodate this². Additionally, the group of users was well defined and restricted: users of ARPANET and its successor were, well into the eighties, mainly US academics or research institutions. Even with the increasing internationalization of the web, those users had one thing in common: they used English to communicate and therefore had no other needs than the ASCII characters (Basic Latin script, Arabic numbers 0-9 and the hyphen) to create and use these humanly meaningful addresses (or domain names).

With the global deployment of the Internet and the exponentially increasing user base, English was still used as the Lingua Franca, but it became clear that the technical restriction which limited the characters that can be used in one script became a significant obstacle for large communities of users in e.g. the Arabic region, China, Indonesia or India. This limitation made it very difficult or even impossible for those users to connect with and interact over the web.

In response to such technical restrictions, these communities developed mechanisms that could partially overcome this hurdle by introducing hybrid domain names. While the root zone still only held ASCII-based top level domains, some of the registries operating those top level domains introduced the possibility of making use of different scripts in the second and third levels. Internationalized Domain Names are domain names that include or consist of different scripts such as Cyrillic, Hangul or Arabic.

This solution was however not regarded as satisfactory as it indeed led to a number of problems³.

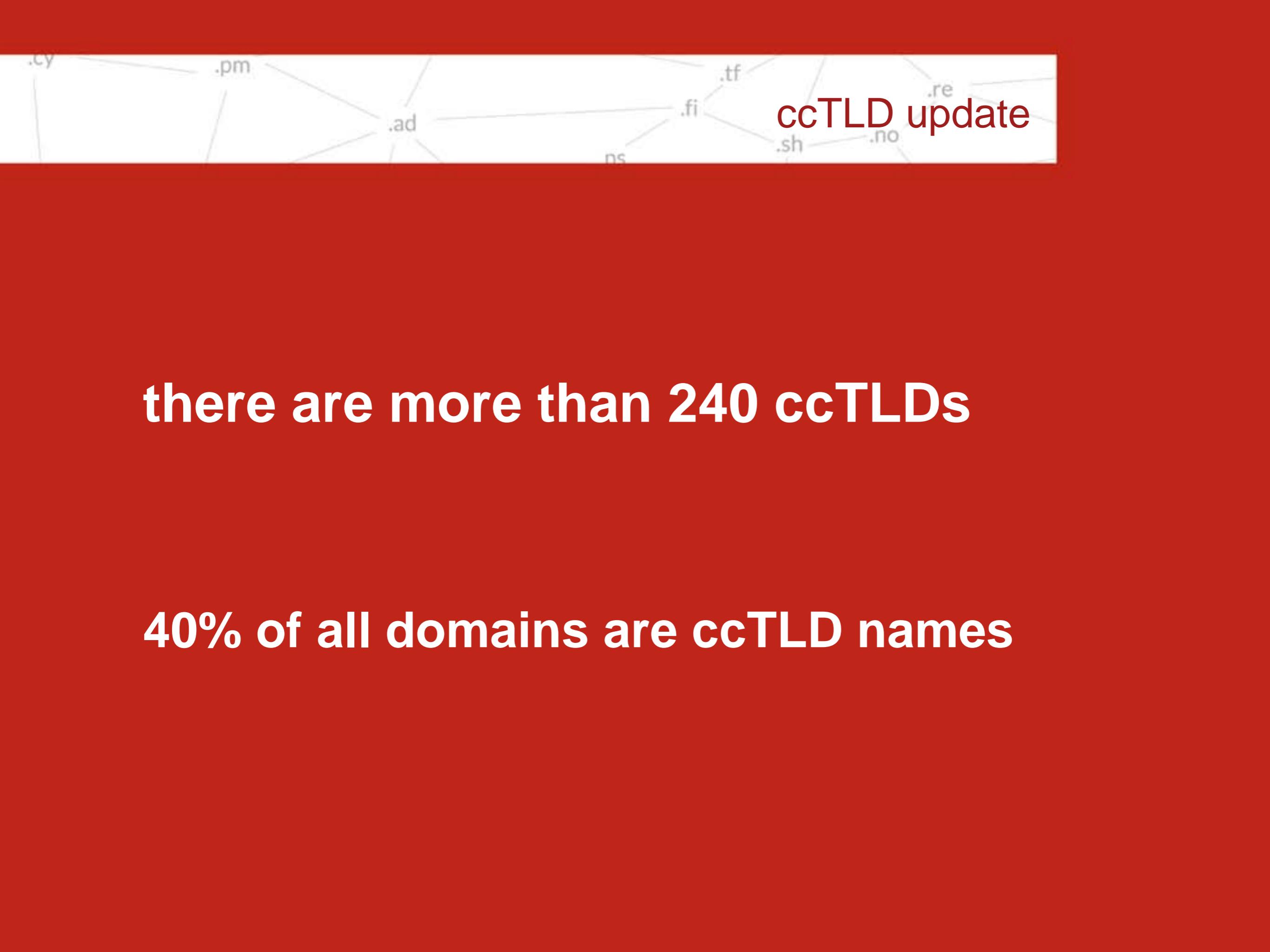
- Complexity of typing: Hybrid names still required the user to switch keyboards when typing in a domain name
- Confusion over label order: As some scripts are right-to-left, the direction could switch in a domain name.
- Ambiguity of visual appearance of different domain names: Different domain names could look identical depending on the input mechanisms of the application (e.g. browser).

1 ASCII is a common numerical code for computers and other text handling devices. Computers can only understand numbers, so an ASCII code is the numerical representation of a character such as 'a' or 'ö'. When mentioned in relation to domain names or strings, ASCII refers to the fact that before internationalization only the letters a-z, digits 0-9, and the hyphen '-' were allowed in domain names.

2 Internationalization of Domain Names: a history of technology development; Klemm, J. and Fäldström, P. <http://www.ircf.org/internet/issues/doc/11/int-dom-chronology.pdf>

3 A detailed overview of these difficulties can be found in "Internationalized Domain Names: The Long and Winding Road"; Benny Lipska, Doron Shkimon; Domain Wire 2007; p7-11 <https://www.centr.org/ihals/dominawire/2056-CTR.html>

<http://twitter.com/centrnews>

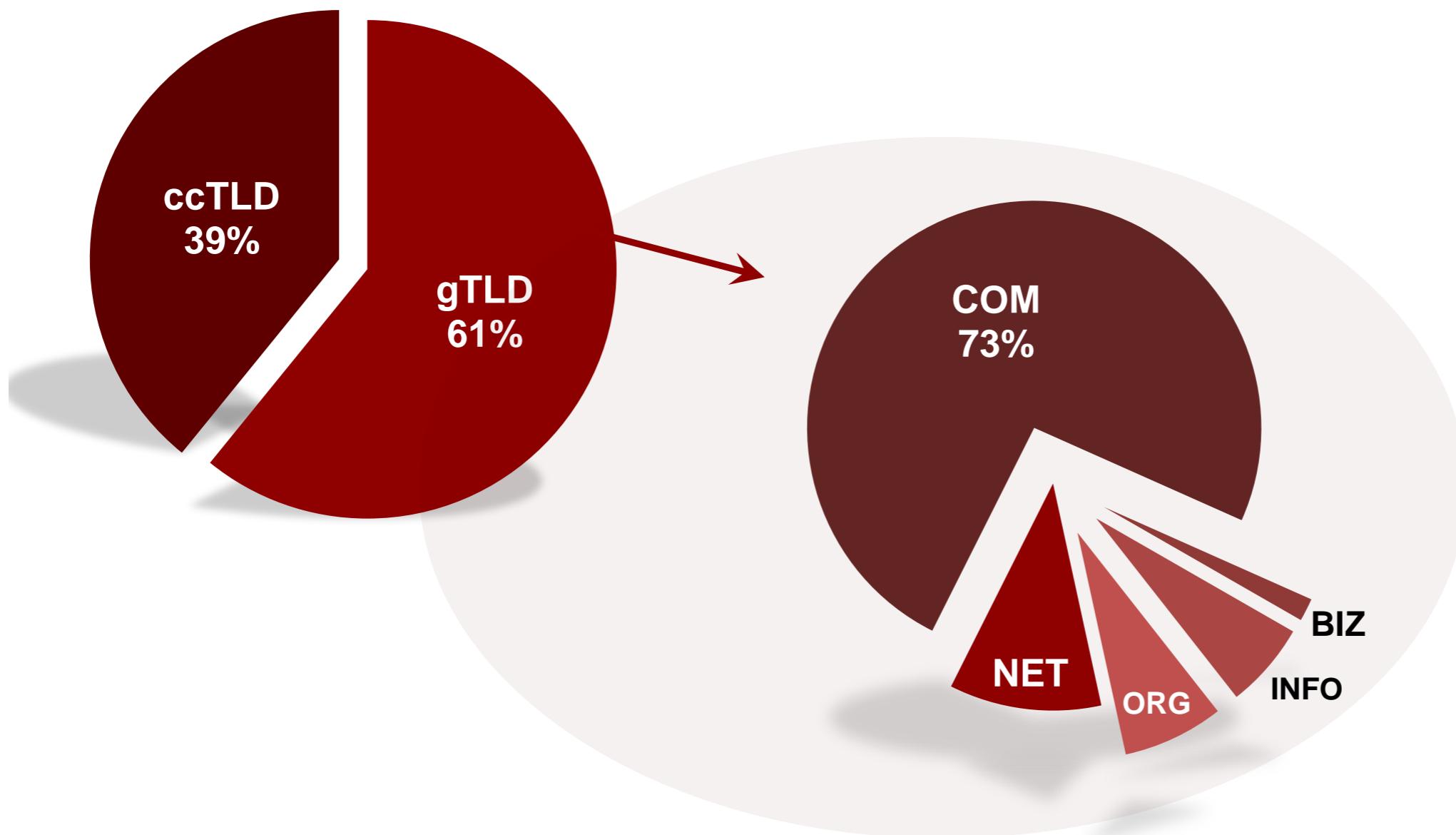


ccTLD update

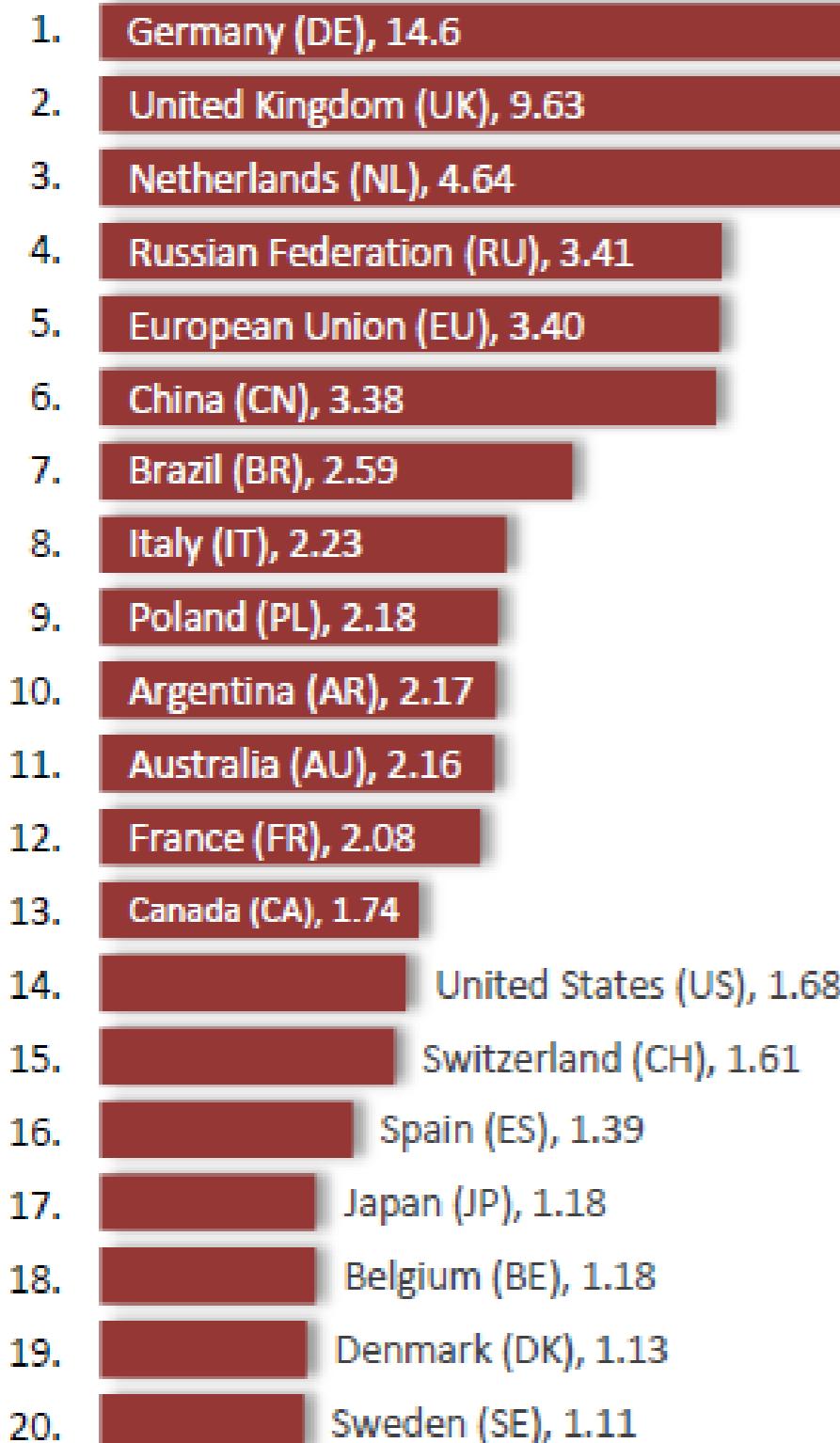
there are more than 240 ccTLDs

40% of all domains are ccTLD names

ccTLD update



ccTLD update



20 largest ccTLDs

63 million domain names

75% ccTLD names

ccTLDs & Awareness raising

Main task of a ccTLD

1) Domain name resolution service

answer requests for name server information

2) Registration service

create, delete, transfer, hold domains and update information

3) Directory service

provide Whois information

4) Traditional Business service

billing, customer support, sometimes dispute resolution



ccTLDs & Awareness raising

“On behalf of the Local Internet Community”

RFC 1591

**Education
&
Awareness
raising**

Internet
security

ccTLDs & Awareness raising

ccTLDs

Internet

DNS

IPv6

DNSSEC

Marketing

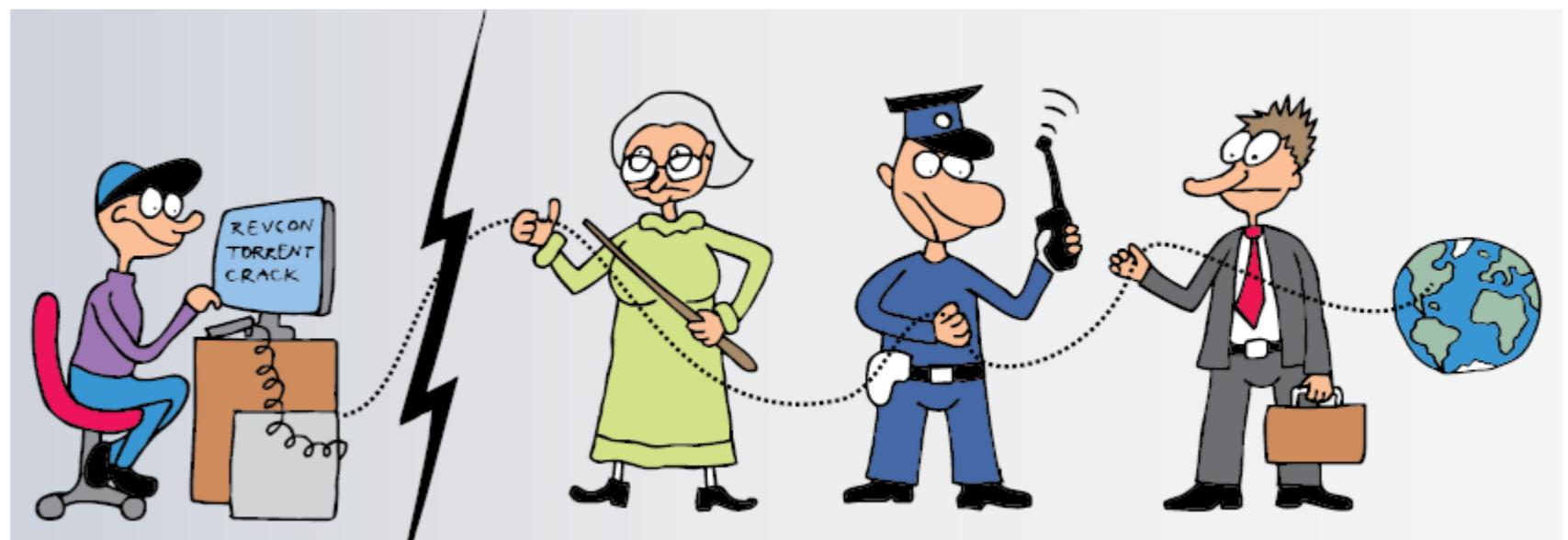
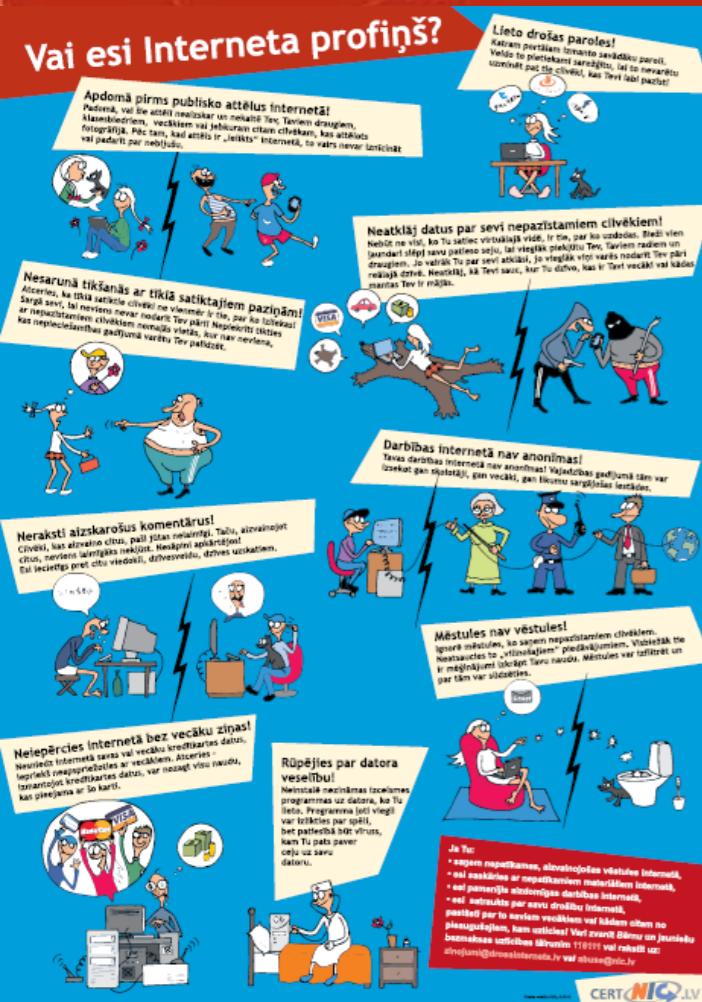
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ccTLDs & Awareness raising



[http://apps.facebook.com/
domainstar](http://apps.facebook.com/domainstar)

ccTLDs & Awareness raising



http://www.cert.lv/uploads/uploads/CERT_drosiba_berniem-1000px.jpg

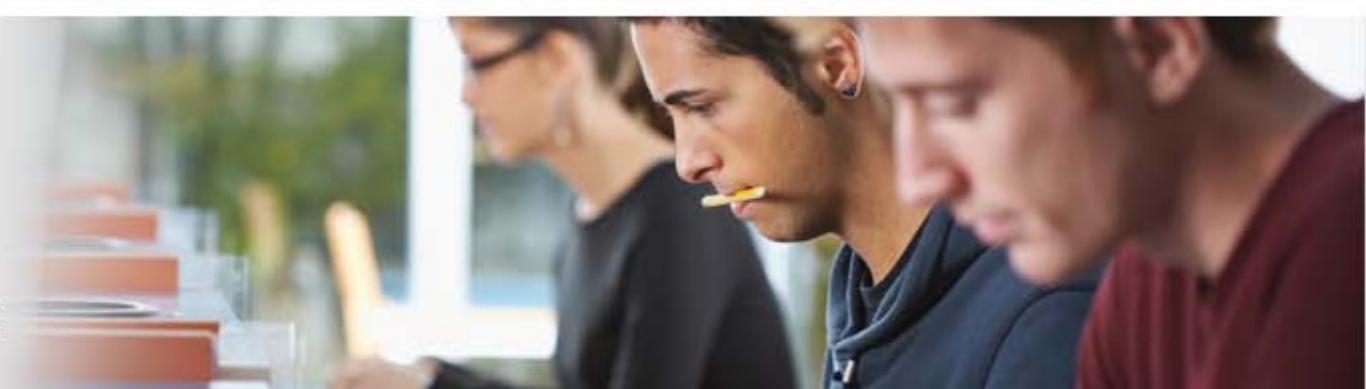
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CANADIAN INTERNET REGISTRATION AUTHORITY

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Knowledge Centre

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IPv6

[CIRA's Experience in Deploying IPv6 \(PPT\)](#)

CIRA's experience in deploying IPv6

Canadian Internet Registration Authority (CIRA)
Jacques Latour
Director, Information Technology
Ottawa, April 29, 2011



<http://www.cira.ca/knowledge-centre/ipv6>

ccTLDs & Awareness raising

The screenshot shows the homepage of [knowthenet.org.uk](http://www.knowthenet.org.uk). The header features a purple owl logo on the left and a search bar with social media links on the right. A navigation menu at the top includes Home, How can we help?, Jargon Buster, Community, Useful Contacts, News, Feedback, Media, and Threat Test. Below the menu, a breadcrumb trail indicates the user is at 'How can we help?'. A central column contains a 'Learn' icon and text about the knowledge centre's purpose. To the left is a 'Personal' section with topics like Accessibility, Blogging, and Child Safety. To the right is a 'Business' section with topics like Accessibility, Brand protection, and Business website. On the right side, there's a 'Make the Internet your Business' sidebar with a 'Netcheck' button, and a 'Popular Topics' section with links to Music and video, Viruses, Online safety, Child Safety, Social networking, Online banking, and Cybercrime.

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You are here: [Home](#) > [How can we help?](#)

 Our knowledge centre contains a wide range of articles on how to use the [internet](#) for both personal and business use. Our aim is to provide information that will help you get the best out of your online experience. However well you think you know the net, we're sure you'll find this information useful.

Ask a question: [Search icon]

Personal 

- Accessibility
- Blogging
- Broadband speed
- Child Safety
- Cyberbullying
- Cybercrime
- Domain names
- Getting started online

Business 

- Accessibility
- Blogging
- Brand protection
- Broadband speed
- Business website
- Cloud computing
- Cybercrime
- Data protection online

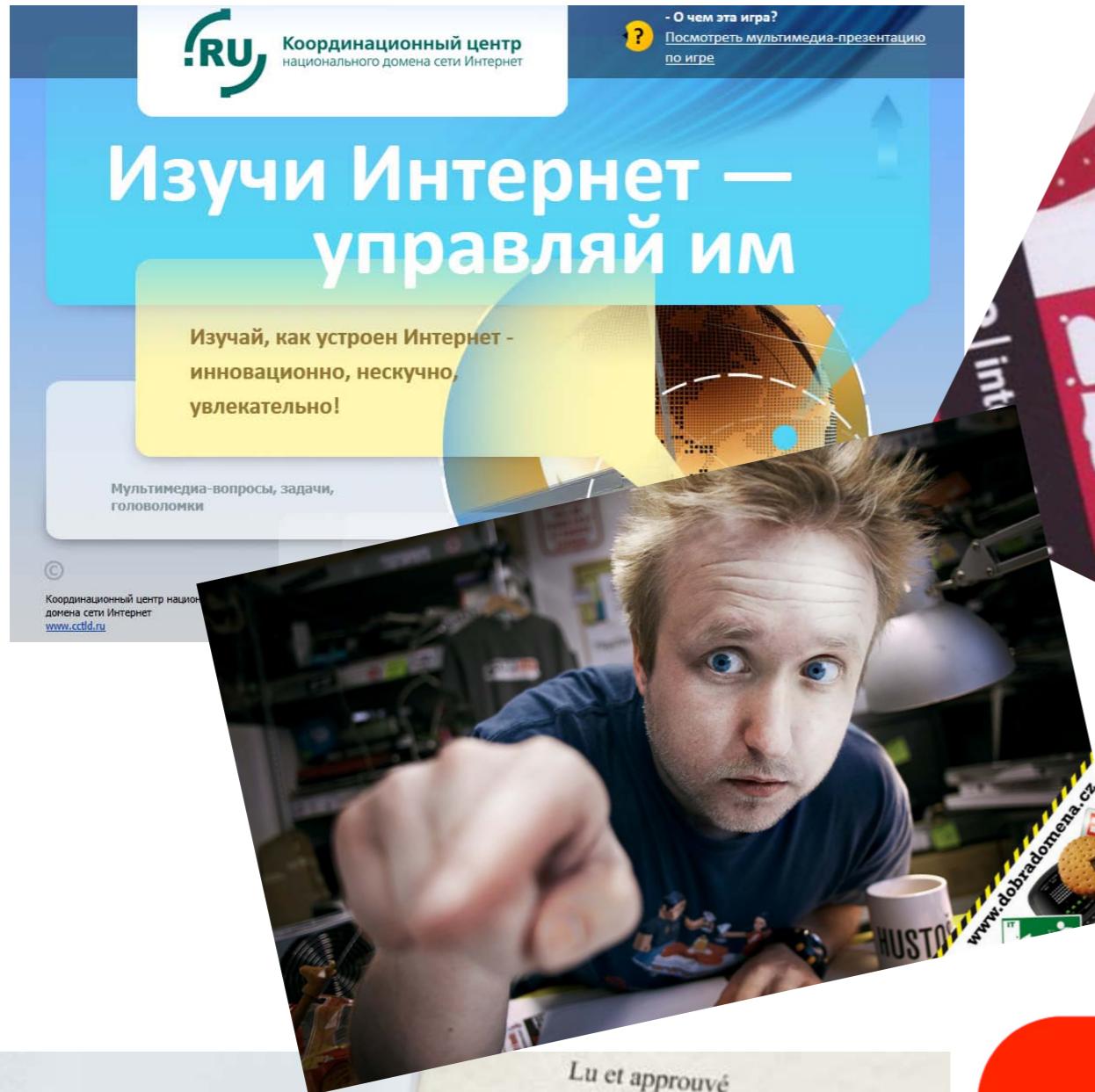
Popular Topics

[Personal topics](#) [Business topics](#)

[Music and video](#) [Viruses](#)
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[Social networking](#) [Online banking](#) [Cybercrime](#)

<http://www.knowthenet.org.uk>

ccTLDs & Awareness raising



Cyber Security Consumer Tip Sheet



THANK YOU!

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www.centr.org