

The background of the image is a night-time photograph of a cityscape in Abu Dhabi. On the left, several tall, modern skyscrapers with glass facades are illuminated. In the center, there is a large, ornate fountain structure. On the right, a large, domed building with a prominent archway is lit up. The foreground is filled with colorful flower beds in shades of red, white, and purple, with a paved walkway leading through them. The sky is a deep red color, likely due to the sunset or the lighting used in the photograph.

ICANN
ANNUAL GENERAL

60

ABU DHABI

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IDN Program Update for ccNSO



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Overview

- ⦿ IDNs at Top Level
 - IDN TLD Program
 - Root Zone Label Generation Rules (RZ-LGR)
 - LGR Toolset
 - IDN Variant TLD Implementation
 - IDN ccTLD Fast Track Process
- ⦿ IDNs at Second Level for gTLDs
 - IDN Implementation Guidelines
 - Reference Second Level LGRs



LGR Specification
and Tool (P1)



LGR Development
(P2.2)



IDN Variant TLD
Implementation (P7)



IDN ccTLD Fast Track



Reference Second
Level LGRs

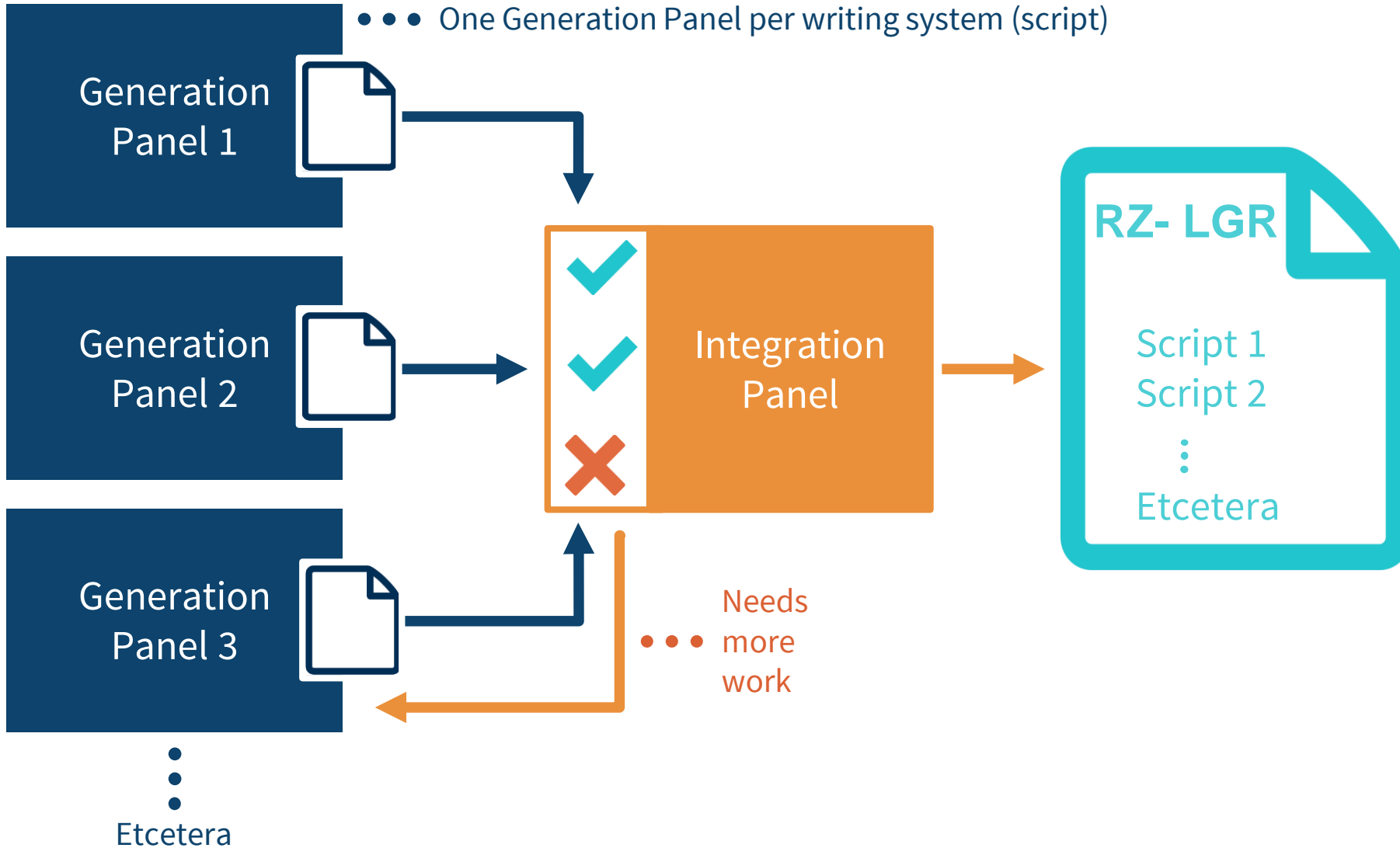


IDN Implementation
Guidelines

Root Zone Label Generation Rules (RZ-LGR)

- ⦿ IDNA2008 expects registries at all levels, including the top-level, will reduce opportunities for confusion by, for example, restricting characters or using variant techniques
 - RZ-LGR basis for such mechanism for the Root Zone
- ⦿ RZ-LGR aims to:
 - Support IDN TLDs in scripts used by communities globally
 - Provide a secure and stable definition for valid IDN TLDs
 - Determine variant labels of IDN TLDs

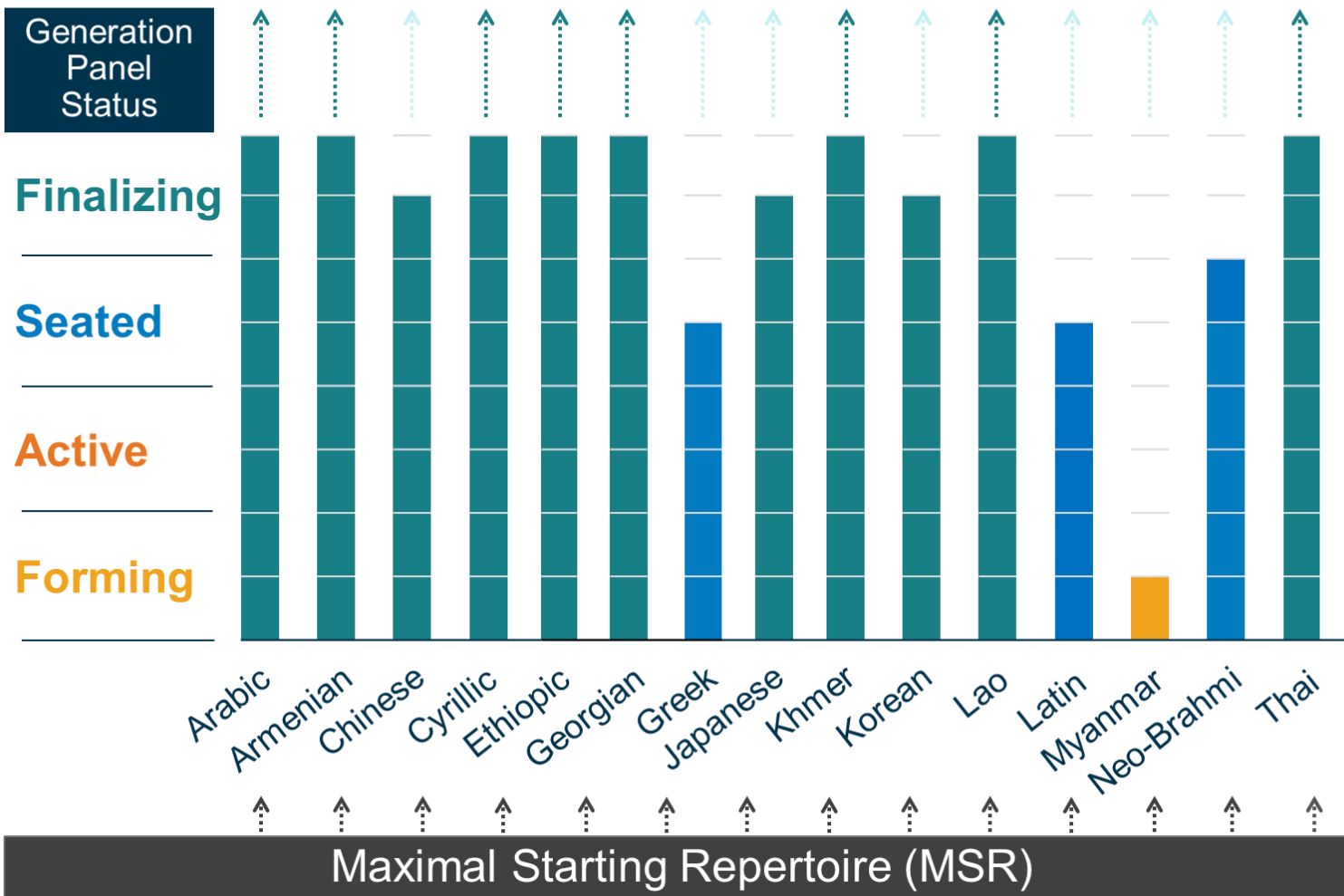
RZ-LGR Process



Status of Generation Panels (GPs)

Oct. 2017

Label Generation Rules (LGR)



28+ Scripts
19+ GPs

Other:

- Hebrew
- Sinhala
- Thaana
- Tibetan

Status of RZ-LGR



RZ-LGR-2 Summary

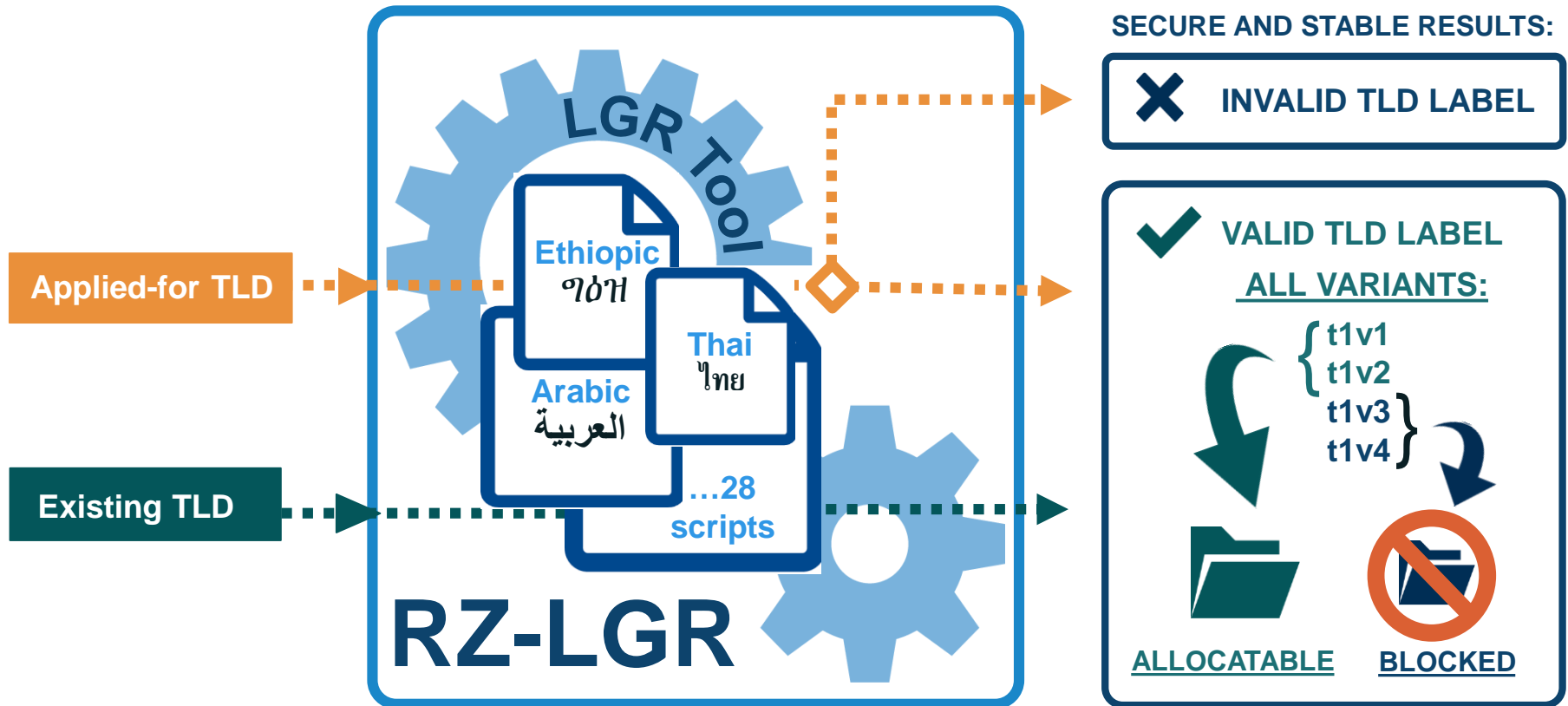
- Arabic, Ethiopic, Georgian, Khmer, Lao and Thai scripts integrated
- Armenian finalized – to be integrated after LGRs of related scripts received
- Available at www.icann.org/idn

LGR Toolset (beta)

- ⦿ Label Generation Rulesets (LGRs) used to generate domain name labels, as specified in [RFC 7940](#)
- ⦿ LGR Toolset currently allows for the following:
 - **Create** single LGR or merge multiple LGRs
 - **View** LGR in XML form or user friendly HTML form
 - **Use** a LGR to validate a label and determine its variant labels
 - **Manage** LGRs, by comparing or combining them
 - **Review** impact of a new or a revised LGR on existing labels
- ⦿ Online beta deployment at: <https://lgrtool.icann.org/>
- ⦿ Open source package(s) released with BSD license
 - Released at github: [lgr-core](#), [lgr-django](#), [munidata](#)
- ⦿ [User guide](#) available for further details

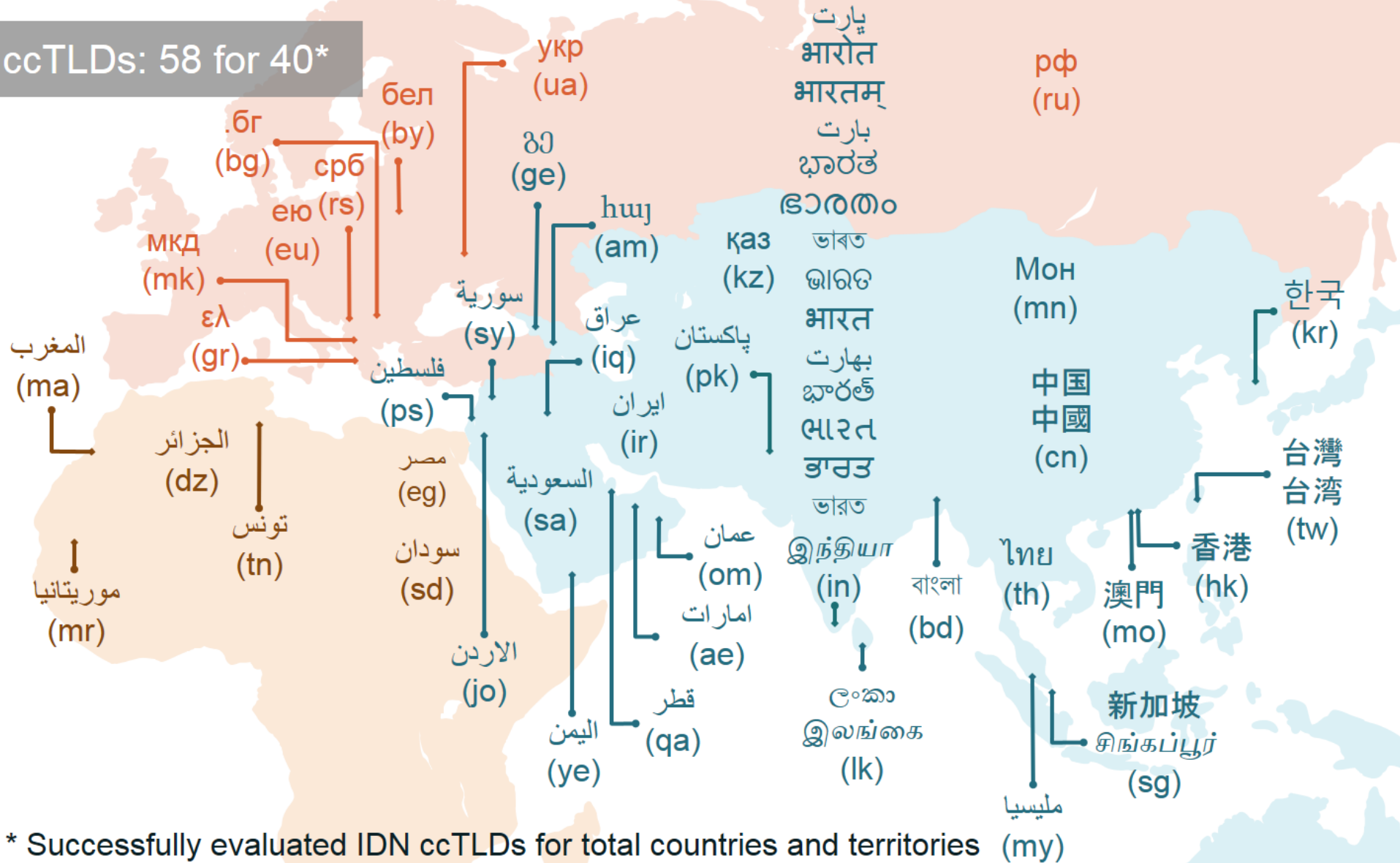
Pre-Requisite for IDN Variant TLD Implementation

- Update relevant procedures to incorporate Root Zone Label Generation Rules (RZ-LGR) cohesively across IDN ccTLDs and IDN gTLDs



IDN Country Code Top-Level Domains

ccTLDs: 58 for 40*



* Successfully evaluated IDN ccTLDs for total countries and territories

IDN ccTLD Fast Track Process

- Launched in late 2009
 - 58 IDN ccTLDs evaluated representing 40 countries/territories
 - 56 IDN ccTLDs delegated representing 38 countries/territories
 - Requests cover 33 languages in 19 scripts for
- Currently under review
 - [Public comment](#) in Jan 2015 raised issues with second similarity review process (EPSRP)
 - [Board resolution](#) in June 2015 to review EPSRP
 - ccNSO formed Working Group (WG) on EPSRP
 - [Public comment](#) in July 2016 on updated EPSRP guidelines
 - [Final report](#) published, incorporating feedback and discussion
 - ccNSO adopted the final report by WG on EPSRP
 - [Joint ccNSO SSAC Response](#) to ICANN Board

IDN Implementation Guidelines

- ⦿ Background
 - For second-level IDN registration policies and practices
 - To minimize the risk of cybersquatting and consumer confusion
- ⦿ Relevance
 - IDN ccTLDs – “expected” by the Fast Track Process
 - gTLD – registries and registrars offering IDNs contractually bound
 - Required by most Registry Agreements
 - Required by many Registrar Agreements
- ⦿ IDN Guidelines Working Group members from ccNSO, GNSO, ALAC and SSAC
- ⦿ [Final draft](#) open for [Second Public Comment](#) until 10 Dec. 2017 and presented at ICANN 60

Topics of IDN Guidelines

- Total of 7 topics with 19 guidelines and Additional Notes:
 - Transition (4)
 - Format of IDN Tables (2)
 - Consistency of IDN Tables and Practices (4)
 - IDN Variant Labels (3)
 - Similarity and Confusability of Labels (4)
 - Publishing IDN Registration Policy and Rules (1)
 - Terminology (1)
 - Additional Notes

Reference Second Level IDN Tables

- ⦿ Reference IDN tables in LGR format in [RFC 7940](#)
- ⦿ Developed using [Guidelines](#), vetted for security and stability
- ⦿ Finalized after a public comment process
- ⦿ Can be referred to, as registries enhance IDN implementations
- ⦿ Currently 27 LGRs [published](#)
 - Latin: Bosnian, Danish, English, Finnish, French, German, Hungarian, Icelandic, Italian, Latvian, Lithuanian, Norwegian, Polish, Portuguese, Spanish, Swedish
 - Cyrillic: Belarusian, Bosnian, Bulgarian, Macedonian, Montenegrin, Russian, Serbian, Ukrainian
 - Mixed scripts: Korean
 - Others: Chinese, Hebrew

Engage with ICANN and IDN Program



Thank You and Questions

Reach us at: IDNProgram@icann.org

Website: icann.org/idn



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