



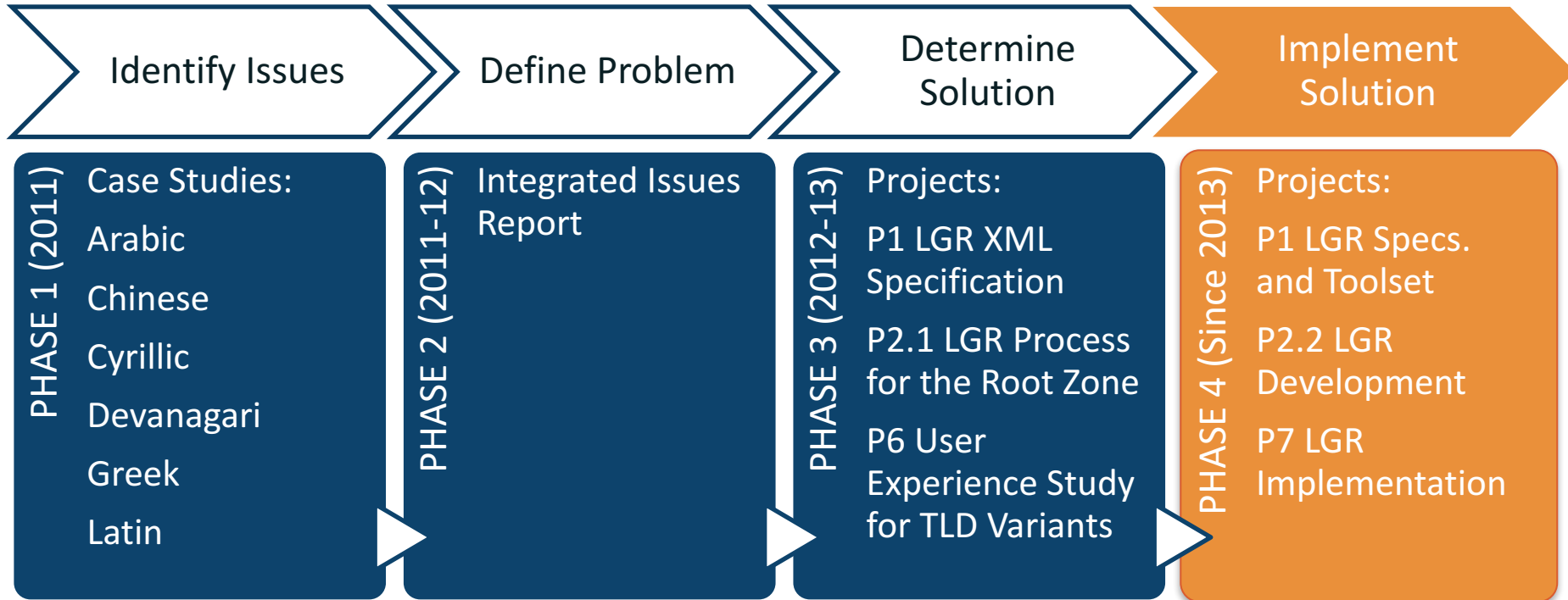
IDN Program Update to New gTLD Subsequent Procedures Sub Team – Track 4

Sarmad Hussain | Director, IDN Program | 9 February 2017

Overview of Projects

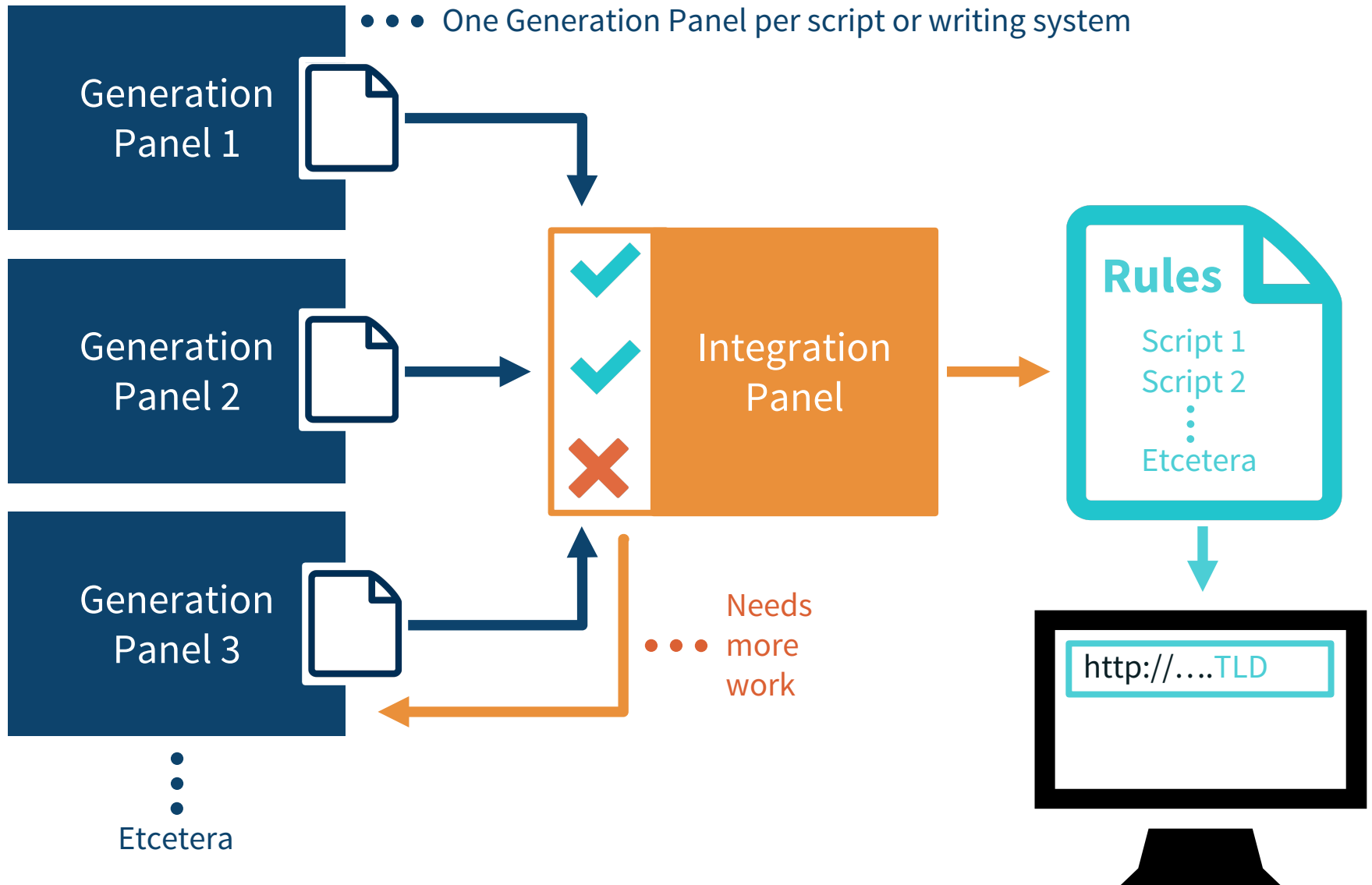
- ⦿ IDNs at Top Level
 - IDN TLD Program
 - Label Generation Rules (LGR)
 - LGR Toolset
 - IDN Variant TLD Implementation
 - IDN ccTLD Fast Track Process
- ⦿ IDNs at Second Level for gTLDs
 - IDN Implementation Guidelines
 - Reference Second Level LGRs

IDN TLD Program

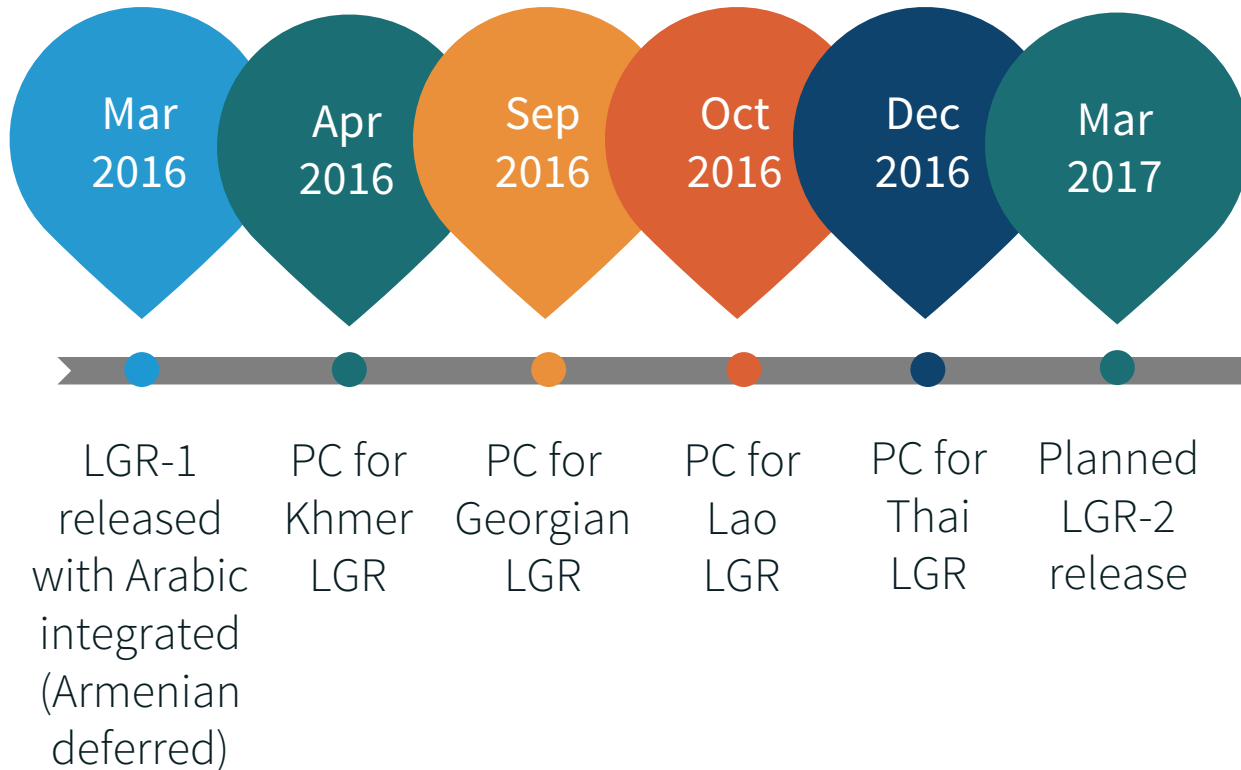


Label Generation Rules (LGR) be developed by the relevant script community

Root Zone LGR Procedure



Status of Root Zone Label Generation Rules (LGR)

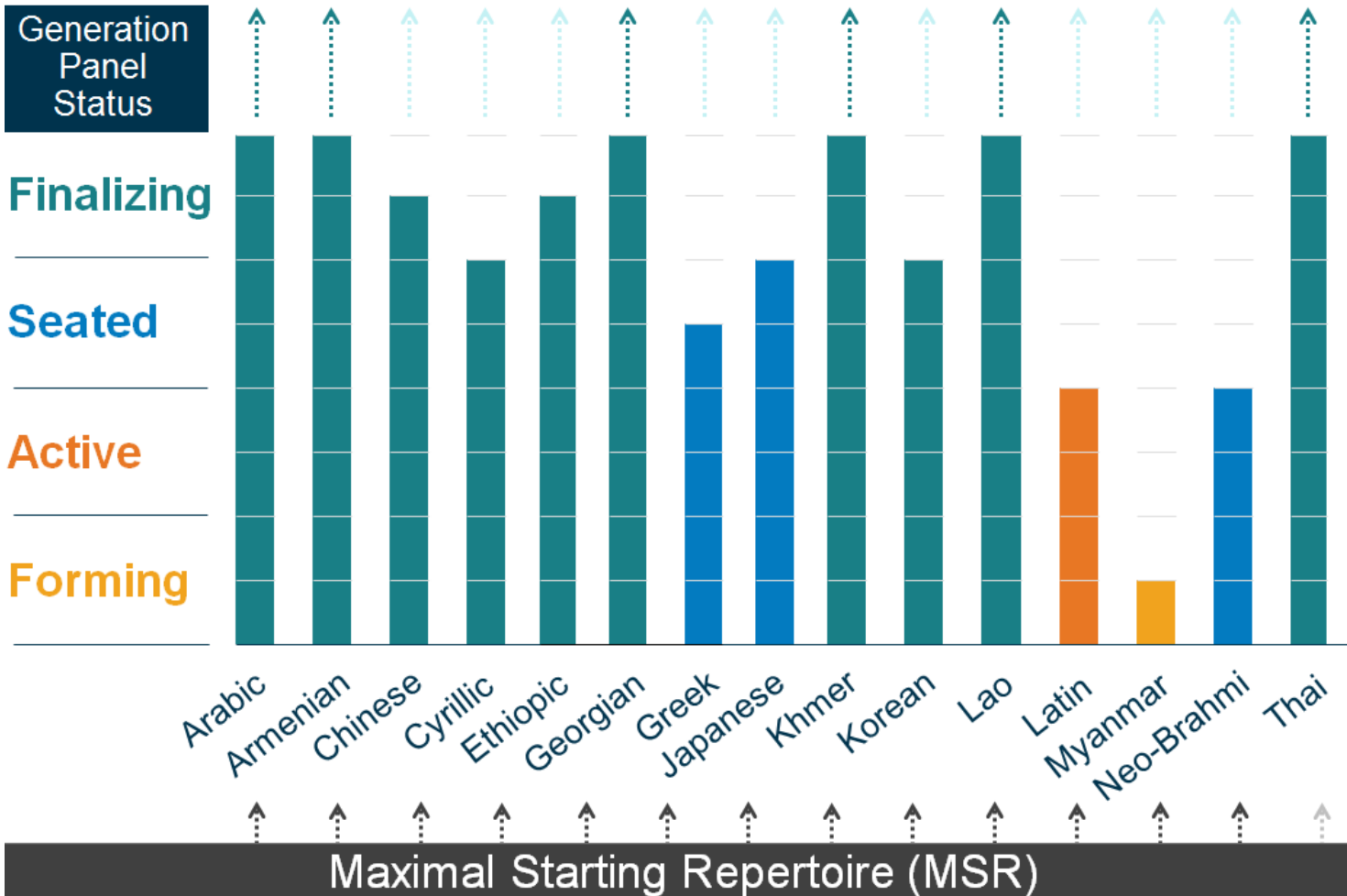


Additional scripts will be incorporated in future versions of the RZ LGR

Status of Generation Panels

Label Generation Rules (LGR)

December 2016



28+ Scripts
19+ GPs

- Other:
- Hebrew
 - Sinhala
 - Thaana

LGR Specification and Toolset (beta)

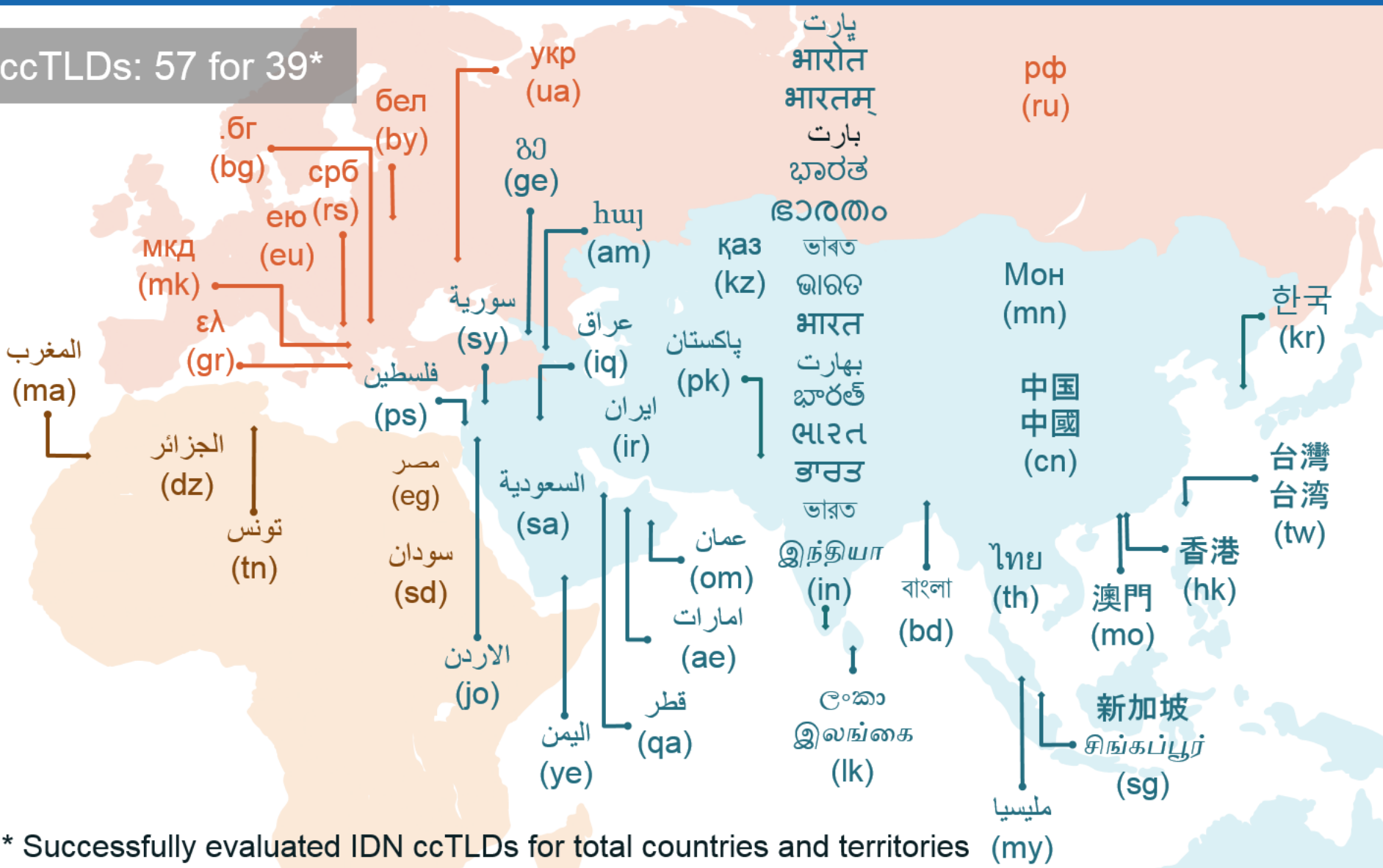
- ⦿ Label Generation Rulesets (LGRs) used to generate domain name labels, as specified in [RFC 7940](#)
- ⦿ LGR Toolset allows for the following:
 - ⦿ Create a LGR
 - ⦿ Use a LGR to validate a label and determine its variants
 - ⦿ Manage LGRs, by comparing or combining them
 - ⦿ Review possible impact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

IDN Variant TLD Implementation

- ⊙ Applications for IDN ccTLDs and new gTLDs indicate variant TLDs
 - Of the 116 new IDN gTLDs and 57 IDN ccTLDs applications
 - 69 new gTLDs and 10 ccTLDs identified variants
 - Limited to Arabic and Han/Chinese scripts
- ⊙ ICANN Board resolved on 25 September 2010 that “no variants of gTLDs will be delegated through the New gTLD Program until appropriate variant management solutions are developed.”
- ⊙ Integrated Issues Report, IIR (2012) based on six scripts identified gaps
 - Issues identified
 - No definition of variant
 - No variant management mechanism
 - Solutions
 - Root zone LGR Procedure to define valid labels and their variants
 - In future, determine variant management mechanism

IDN Country Code Top-Level Domains

ccTLDs: 57 for 39*



* Successfully evaluated IDN ccTLDs for total countries and territories

IDN ccTLD Fast Track Process

- ⦿ Launched in late 2009
 - 57 IDN ccTLDs evaluated representing 39 countries/territories
 - 47 IDN ccTLDs delegated representing 37 countries/territories
 - Requests cover 21 scripts for 35 languages
- ⦿ Currently under review
 - [Public comment](#) in Jan. 2015 raised issues with second similarity review process (EPSRP)
 - [Board resolution](#) in June 2015 for ccNSO to review EPSRP (with input from GAC and SSAC)
 - ccNSO formed EPSRP Working Group (WG)
 - [Public comment](#) in July 2016 by WG on revised EPSRP

IDN Implementation Guidelines

- ⦿ Purpose
 - Guidelines for IDN registration policies and practices at the second level
 - Designed to address end-user concerns, e.g., minimize user confusion
- ⦿ Relevance
 - Contractually binding for registrars and registries
 - Recommended for IDN ccTLDs
- ⦿ Status
 - GNSO community requested for updating the guidelines
 - Previous version ([3.0](#)) updated in 2011
 - Currently being reviewed and updated by IDNGWG

IDN Guidelines WG Members

	Name	Organization	SO/AC
1	Satish Babu	ISOC-TRV	ALAC
2	Wael Nasr	TLDVILLA LLC	ALAC
3	Mats Dufberg	IIS	ccNSO
4	Pablo Rodríguez	Puerto Rico TLD	ccNSO
5	Edmon Chung		GNSO
6	Christian Dawson	i2Coalition	GNSO
7	Chris Dillon		GNSO
8	Kal Feher	AusRegistry	GNSO
9	Dennis Tan	Verisign	GNSO
10	Jian Zhang	KNET	GNSO
11	Ram Mohan	Afilias	SSAC
12	Patrik Fältström (will only review)		SSAC

Summary of Items Covered by the Guidelines

1. Transition from IDNA2003 to IDNA2008
2. Terminology
3. Format of IDN Tables
4. Consistency of IDN Tables
5. User Acceptance
6. IDN Variant Labels
7. Similarity and Confusability of IDN Labels – cont.
8. Registration Data – TBD
9. EPP – TBD

Detailed text of the recommendations available at IDNGWG Wiki page:
<https://community.icann.org/display/IDN/IDN+implementation+Guidelines>

Reference Second Level LGRs

- ⦿ GNSO council and members discussed issue of IDN tables in PDT and RSEP with BV-WG at ICANN 50 London
- ⦿ To assist applicants and registry operators in the Pre-Delegation Testing (PDT) and Registry Services Evaluation Policy (RSEP) process, a project initiated to develop reference language tables
- ⦿ [Public comment](#) on process for development and maintenance
- ⦿ [Public comment](#) on guidelines for LGR development on Nov. 2015
- ⦿ [Public comment](#) on reference second level LGRs and associated evaluation process published June 2016

Reference Second Level LGRs

- ⦿ LGRs being developed and [published](#) since Oct. 2016
- ⦿ LGRs in the standard [RFC 7940](#) format and its readable HTML view
 - 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, Japanese
 - Others: Chinese, Hebrew
- ⦿ Additional process being developed for language and script communities to be able suggest reference LGRs



Thank You and Questions

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Website: icann.org/idn



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