



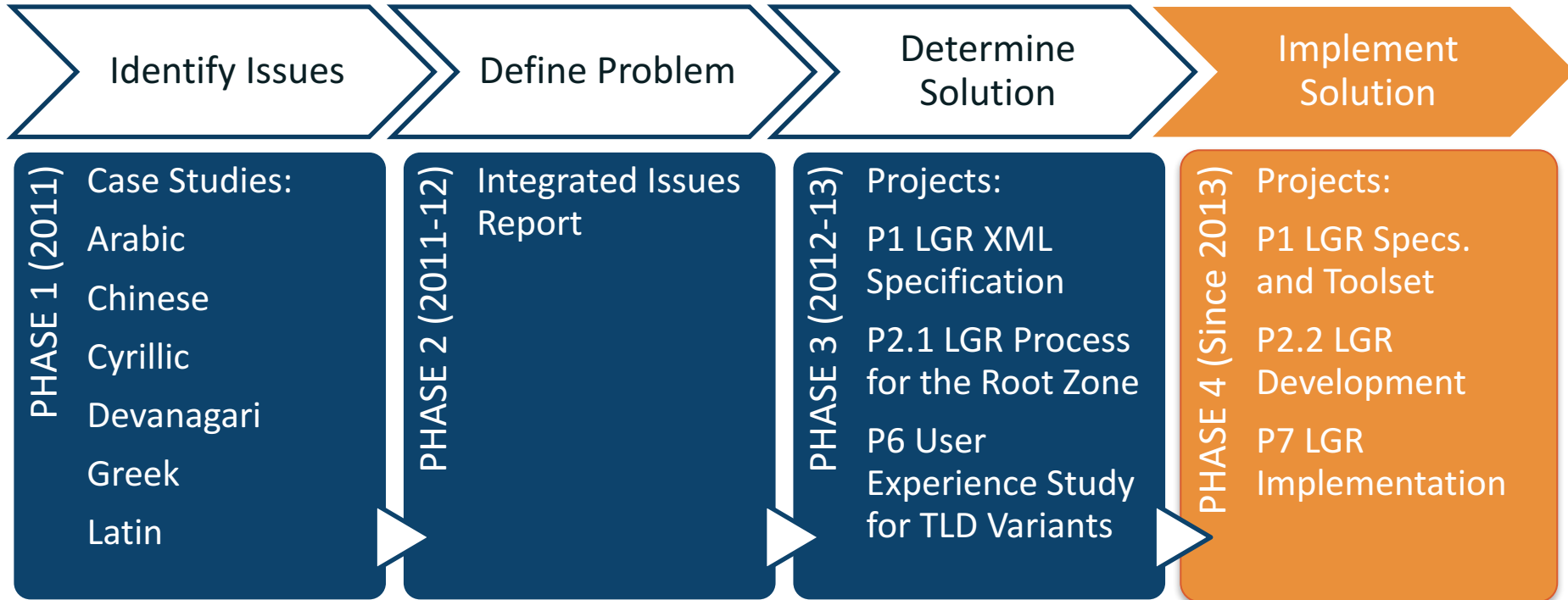
# IDN Program Update to New gTLD Subsequent Procedures Sub Team – Track 4

Sarmad Hussain | Director, IDN Program | 9 February 2017

# Overview of Projects

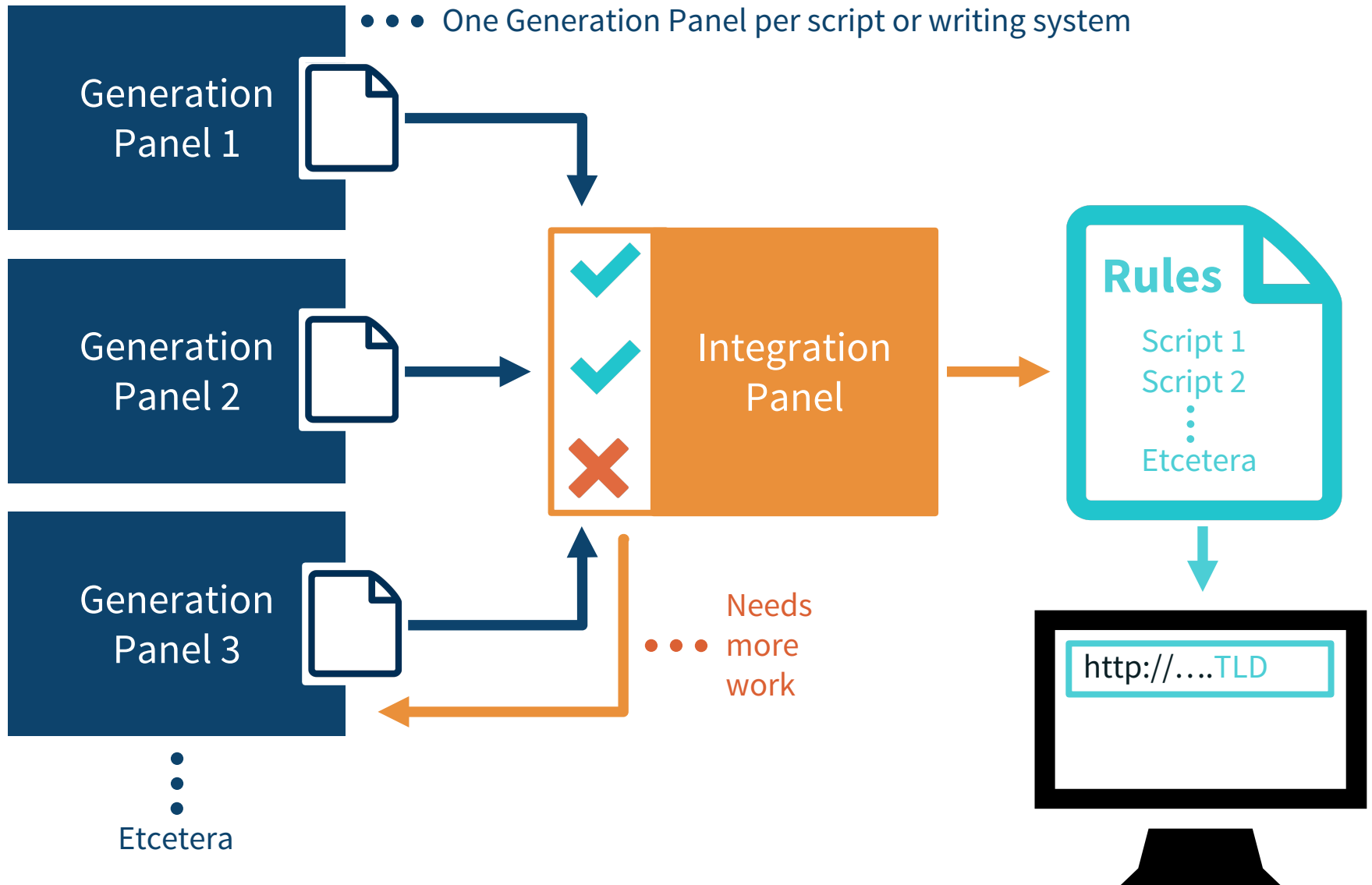
- ⦿ IDNs at Top Level
  - IDN TLD Program
    - Label Generation Rules (LGR)
    - LGR Toolset
    - IDN Variant TLD Implementation
  - IDN ccTLD Fast Track Process
- ⦿ IDNs at Second Level for gTLDs
  - IDN Implementation Guidelines
  - Reference Second Level LGRs

# IDN TLD Program

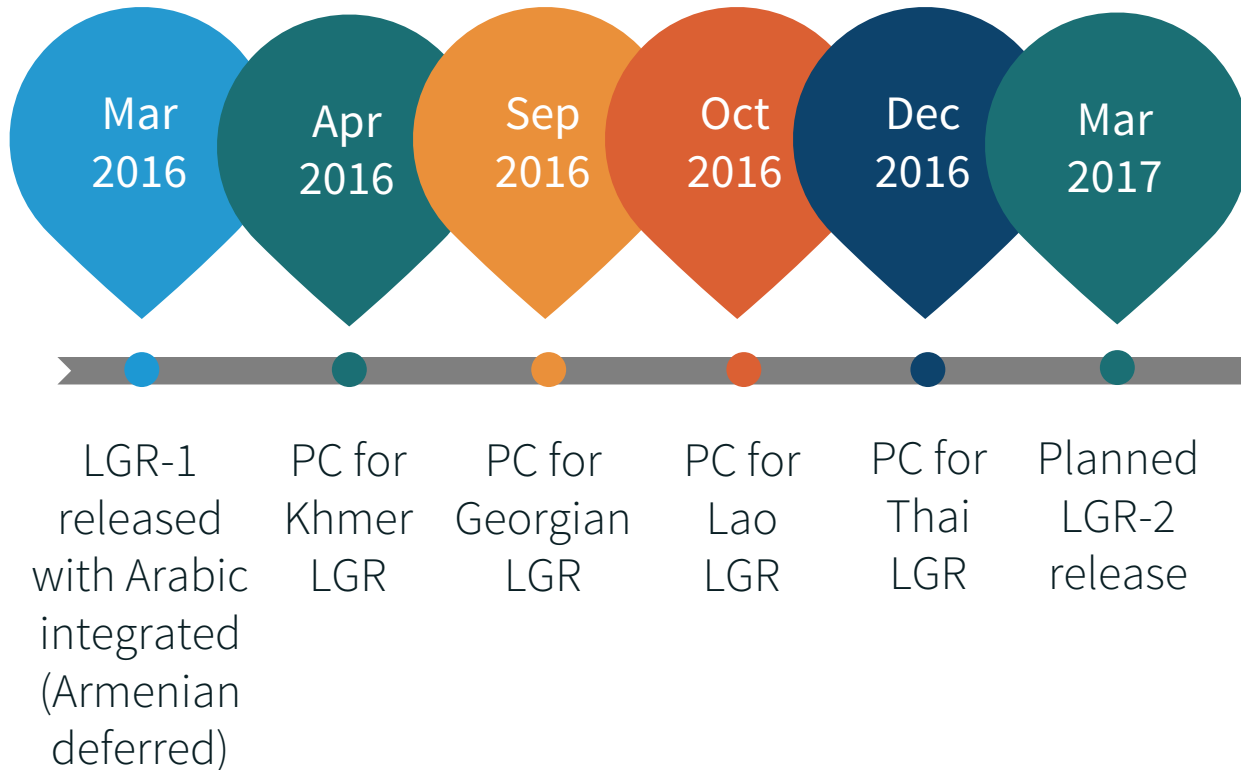


Label Generation Rules (LGR) be developed by the relevant script community

# Root Zone LGR Procedure



# Status of Root Zone Label Generation Rules (LGR)

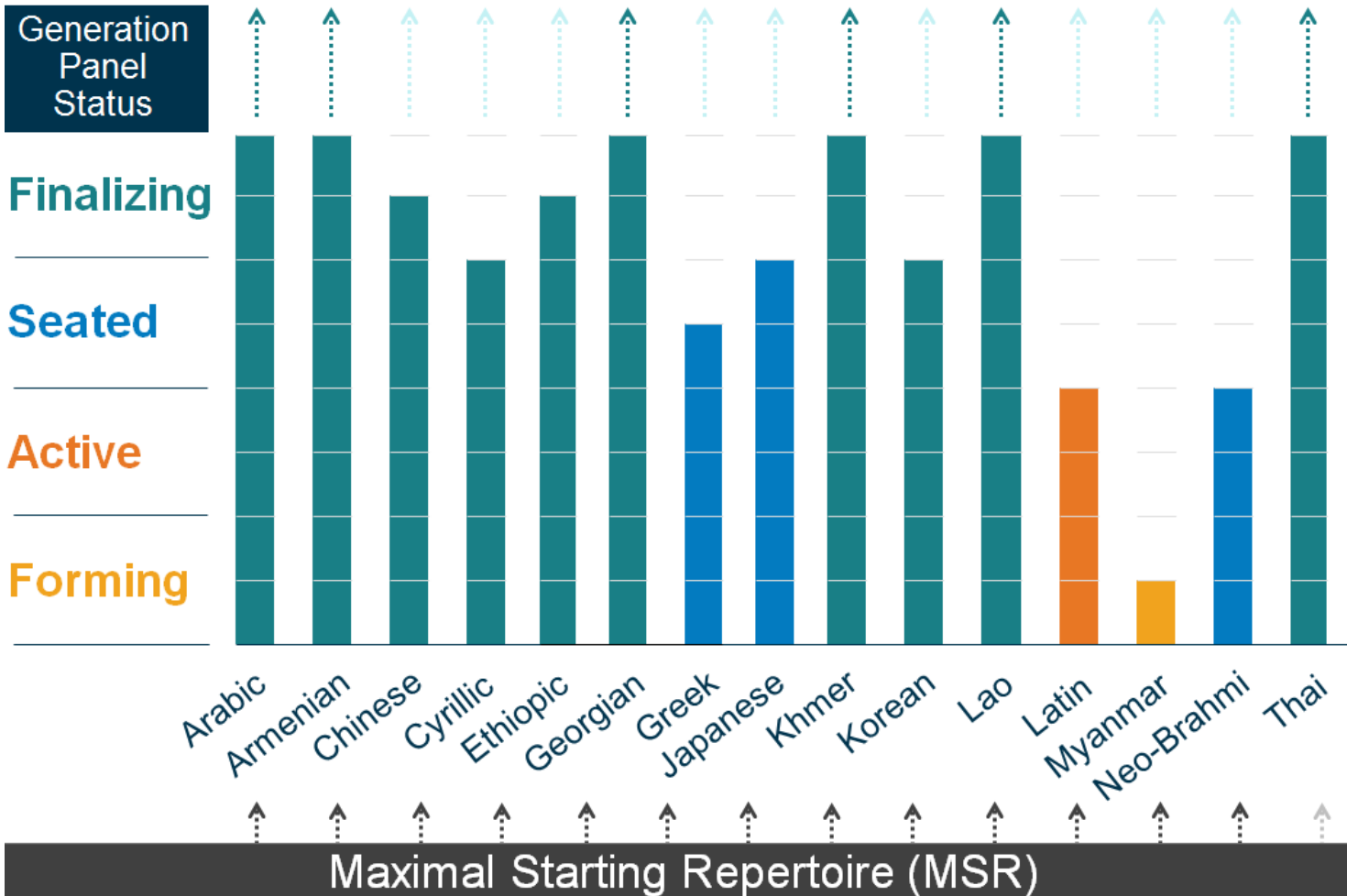


Additional scripts will be incorporated in future versions of the RZ LGR

# 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 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

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

# 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

Reach us at: [IDNProgram@icann.org](mailto:IDNProgram@icann.org)

Website: [icann.org/idn](http://icann.org/idn)



[twitter.com/icann](https://twitter.com/icann)



[gplus.to/icann](https://plus.google.com/icann)



[facebook.com/icannorg](https://facebook.com/icannorg)



[weibo.com/ICANNorg](https://weibo.com/ICANNorg)



[linkedin.com/company/icann](https://linkedin.com/company/icann)



[flickr.com/photos/icann](https://flickr.com/photos/icann)



[youtube.com/user/icannnews](https://youtube.com/user/icannnews)



[slideshare.net/icannpresentations](https://slideshare.net/icannpresentations)