

IDN Program Update



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Stakeholder Engagement and Operations Manager- Africa

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Overview

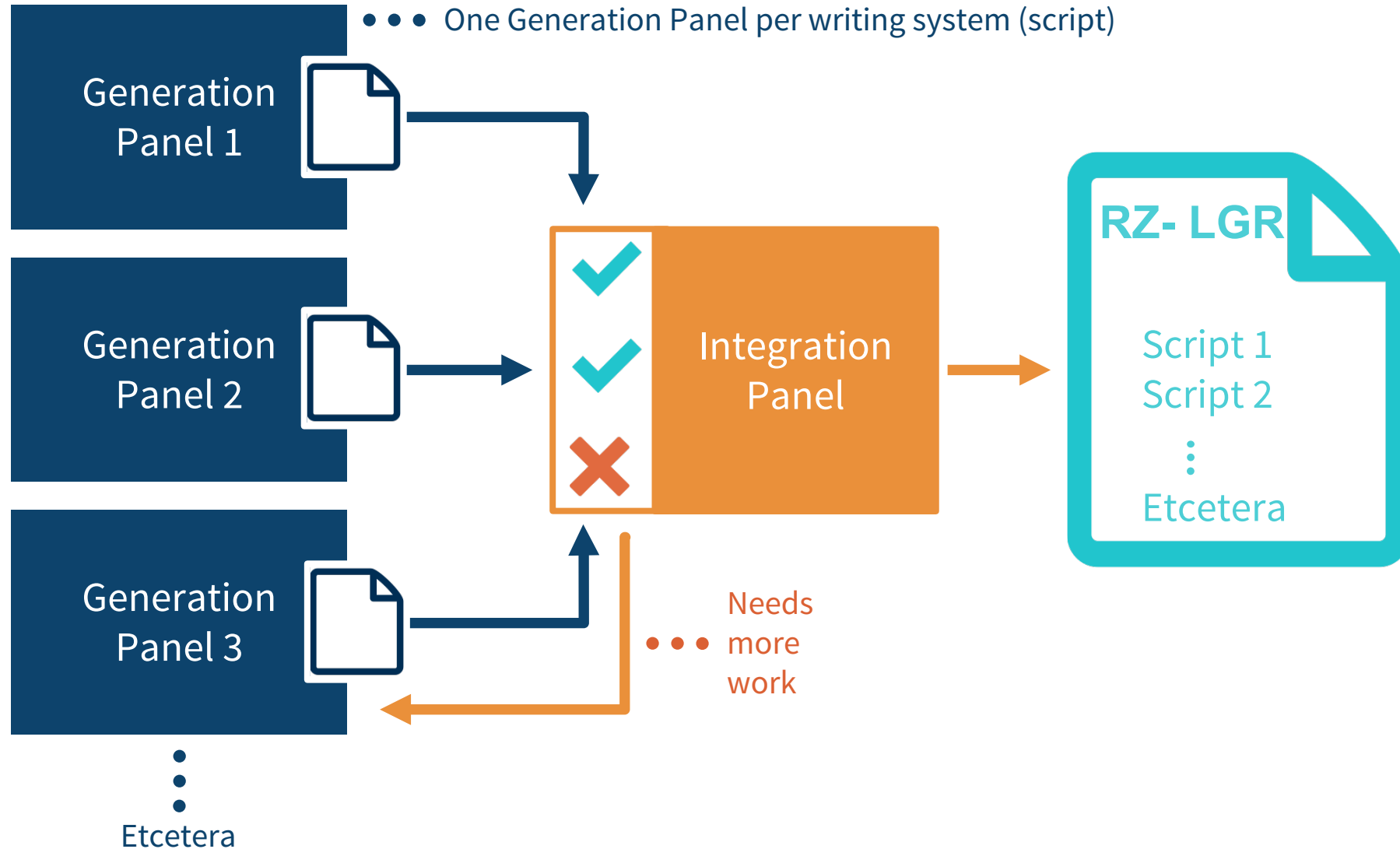
- IDNs at Top Level
 - IDN TLD Program
 - Root Zone Label Generation Rules (RZ-LGR)
 - IDN Variant TLD Implementation
 - IDN ccTLD Fast Track Process
- IDNs at Second Level for gTLDs
 - IDN Implementation Guidelines
 - Reference Second Level LGRs
- Community Outreach and Involvement



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

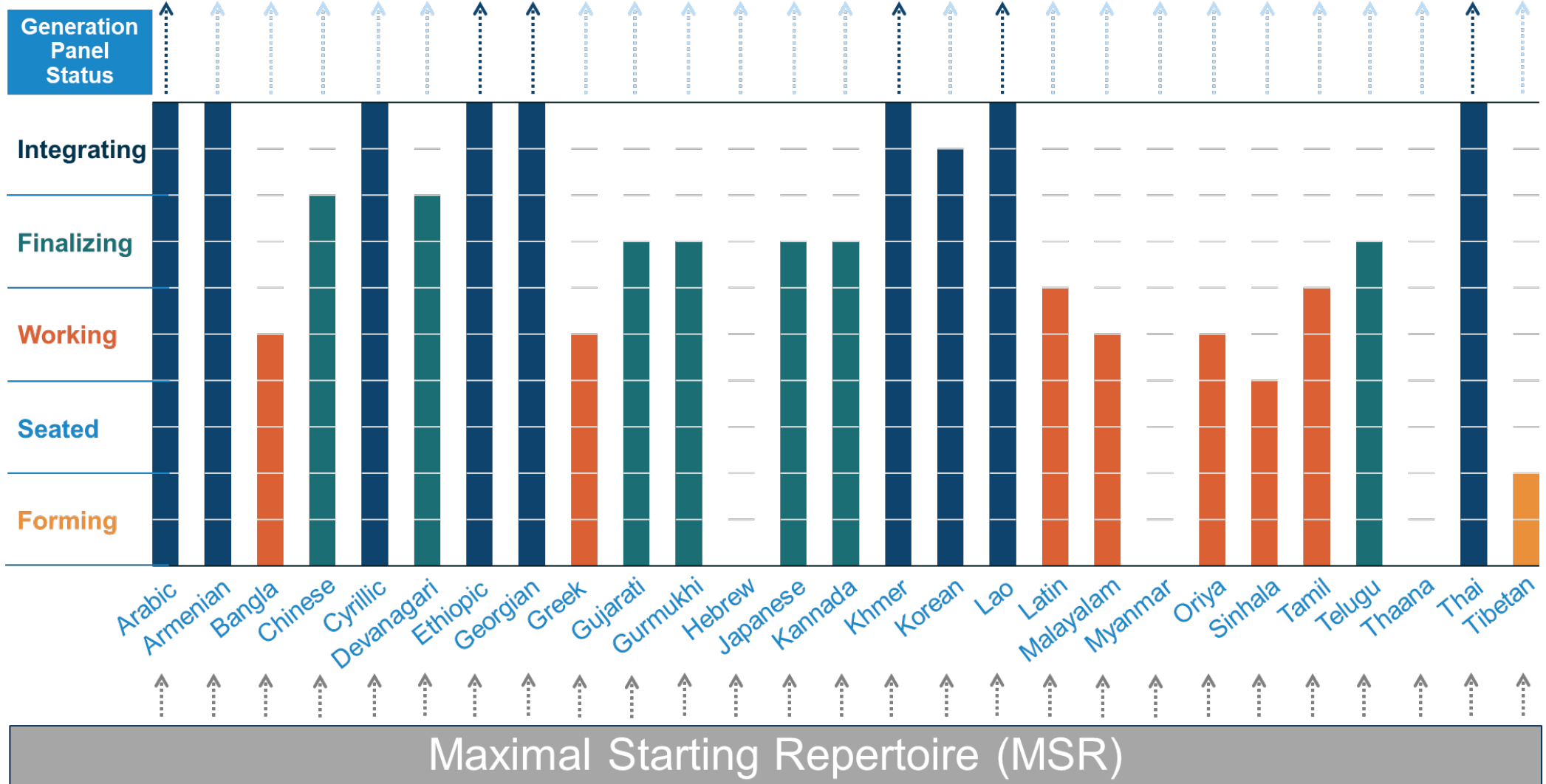
RZ-LGR Process



Status of Generation Panels (GPs)

Feb. 2018

Root Zone Label Generation Rules (RZ-LGR)



Linguistic Diversity in Africa

- More than 3000 languages in Africa
- Writing systems include:
 - Ge'ez (Ethiopic)
 - N'ko
 - Tifinagh
 - Vai
 - ...
 - Arabic (introduced)
 - Latin (introduced)

የሰው ፡ ልጅ ፡ ሁሉ ፡ ሲወለድ ፡ ነጻና ፡ በክብርና ፡ በመብትም ፡
እኩልነት ፡ ያለው ፡ ነው ፡ የተፈጥሮ ፡ የማስተዋልና ፡ ሕሊናው ፡
ሰላለው ፡ አንዱ ፡ ሌላውን ፡ በወንድማማችነት ፡ መንፍስ ፡
መመልከት ፡ የገባዋል ።

ዲጋይታል ስልጠና በ ለገጽ ፩፡፮፡፩፡፬ ላይ ይገኛል፡፡
ፎቶ ፡ ከሆነ፣ ገጽ ፩፡፮፡፩፡፬ ላይ ይገኛል፡፡
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The Characters of the N'Ko Script

consonants	፩	፪	፫	፬	፭	፮	፯	፰	፱
	m	l	k	r	d	c ¹	j	t	p
	፺	፻	፶	፼	፽	፿	፷	፸	፹
	ŋ	y	w	h	n	ɲ	f	gb	s
	፺፻	፻፶	፶፺	፻፺	፻፺	፻፺	፻፺	፻፺	፻፺
	፻፺	፻፺	፻፺	፻፺	፻፺	፻፺	፻፺	፻፺	፻፺
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	፻፺	፻፺	፻፺	፻፺	፻፺	፻፺	፻፺	፻፺	፻፺
	፻፺	፻፺	፻፺	፻፺	፻፺	፻፺	፻፺	፻፺	፻፺

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Alphabet Nationale du Tchad (ANT)

A - LETTRES MINUSCULES

a ' b ḅ c ch d ḍ dh e

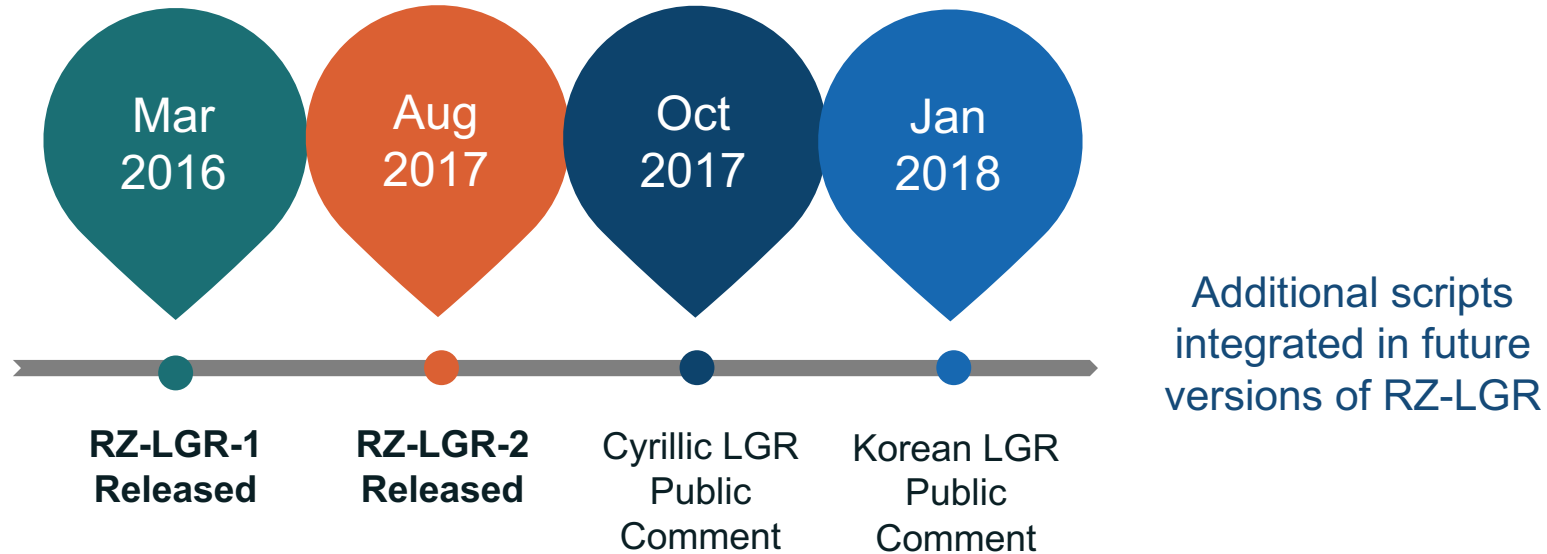
ɛ ə f g gb h ḥ i ï j

k kh kp l m mb mv n ñ nd

ng nj ŋ o ɔ p q r rh s

sl t th u v vb w y ỵ z zl

Status of RZ-LGR

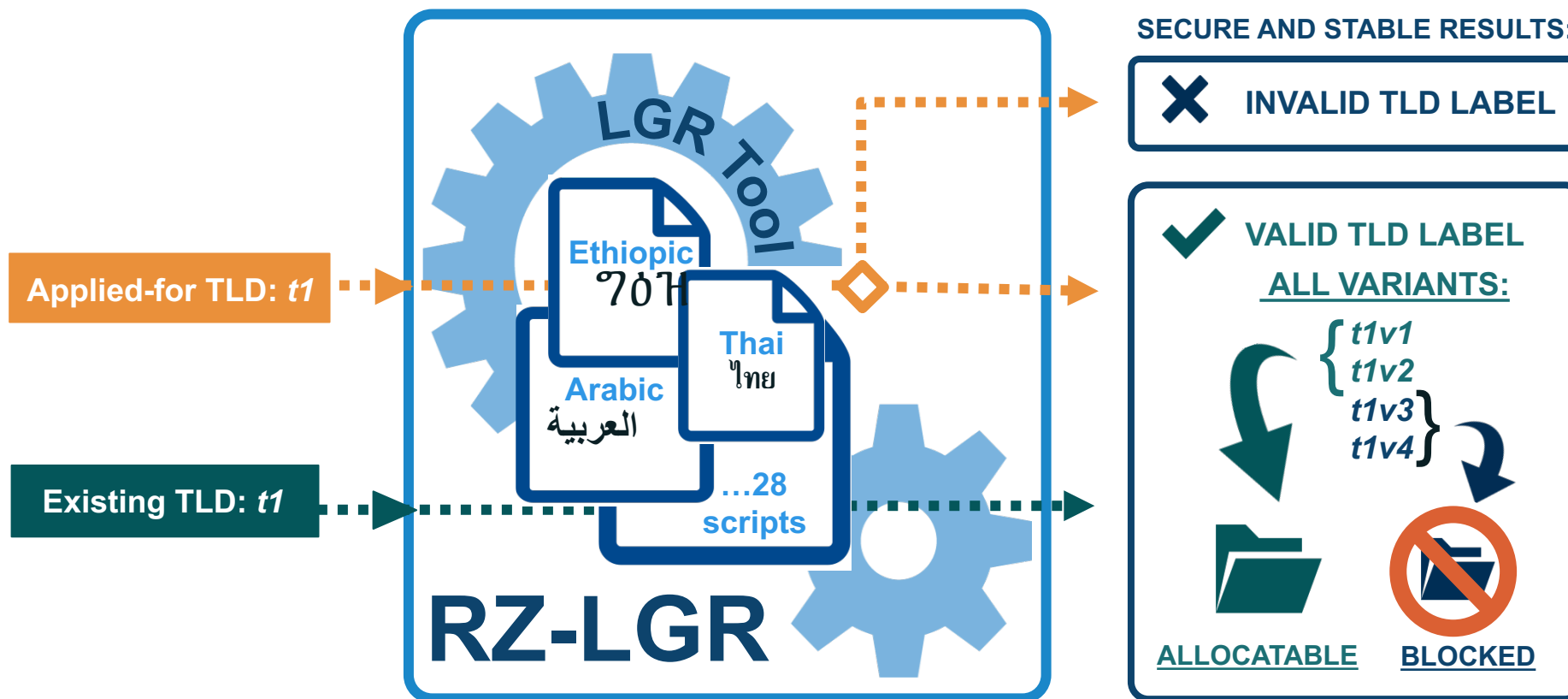


RZ-LGR-2 Summary

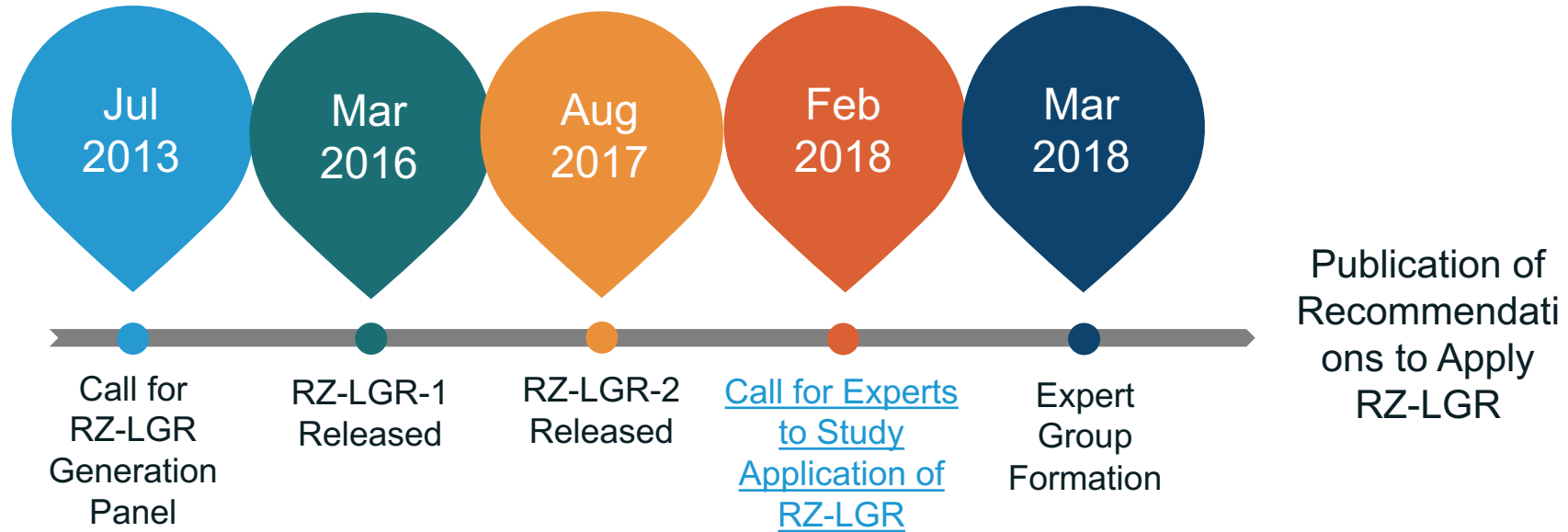
- Arabic, Ethiopic, Georgian, Khmer, Lao and Thai scripts integrated
- Armenian finalized – to be integrated after LGRs of related scripts received
- Available at www.icann.org/idn

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 Variant TLD Implementation – Definition of Variant Labels

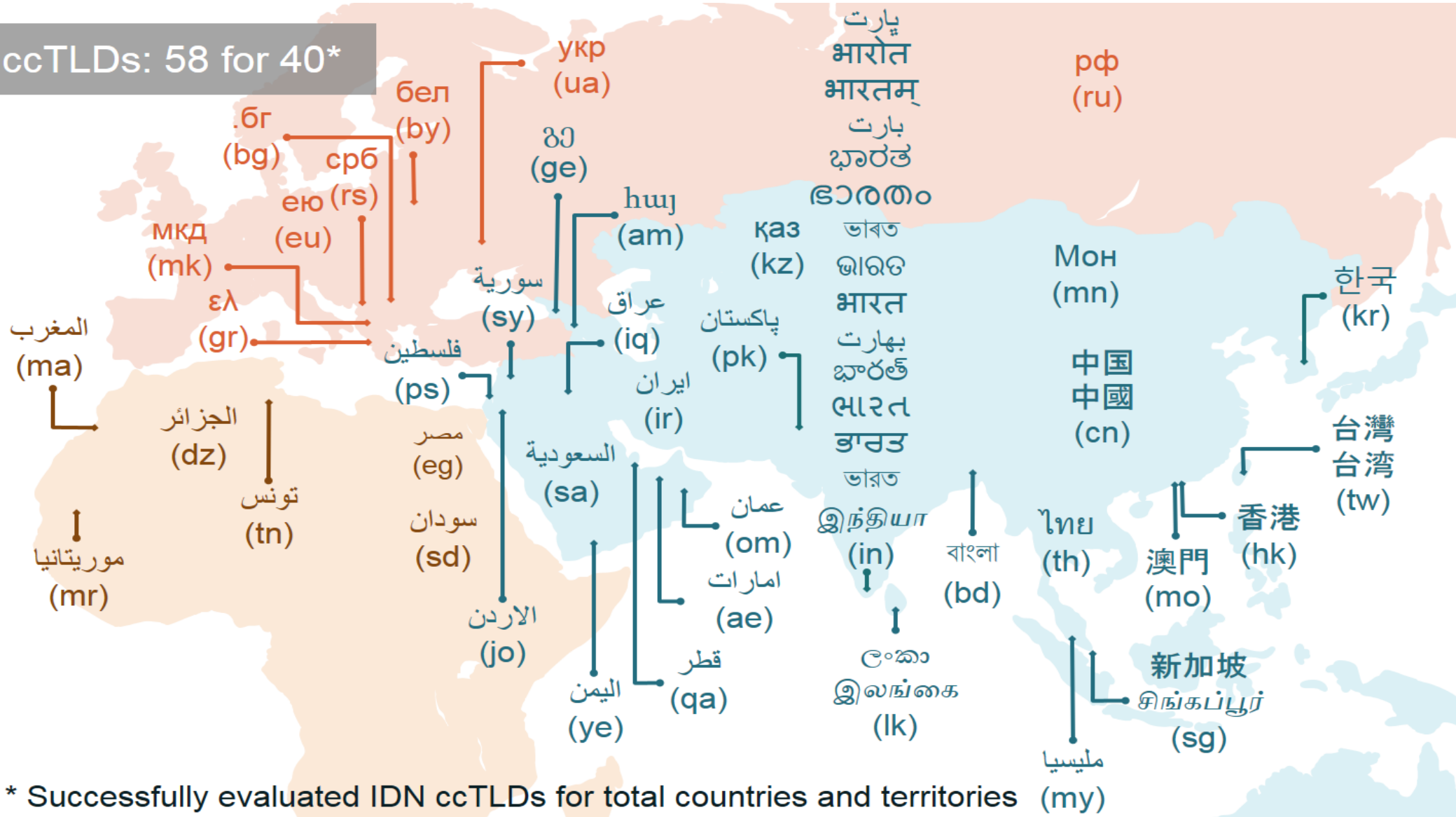


Study Group Expertise and Composition

- Experts in IDNA2008 and related standards, Procedure to Develop and Maintain RZ-LGR, Script-based RZ-LGR proposal development, Technical evaluation for IDN new gTLDs and IDN ccTLDs, Unicode security considerations, IDN TLD usability challenges
- The group to be composed of experts from GNSO, ccNSO, SSAC, ALAC and IAB

IDN Country Code Top-Level Domains

ccTLDs: 58 for 40*



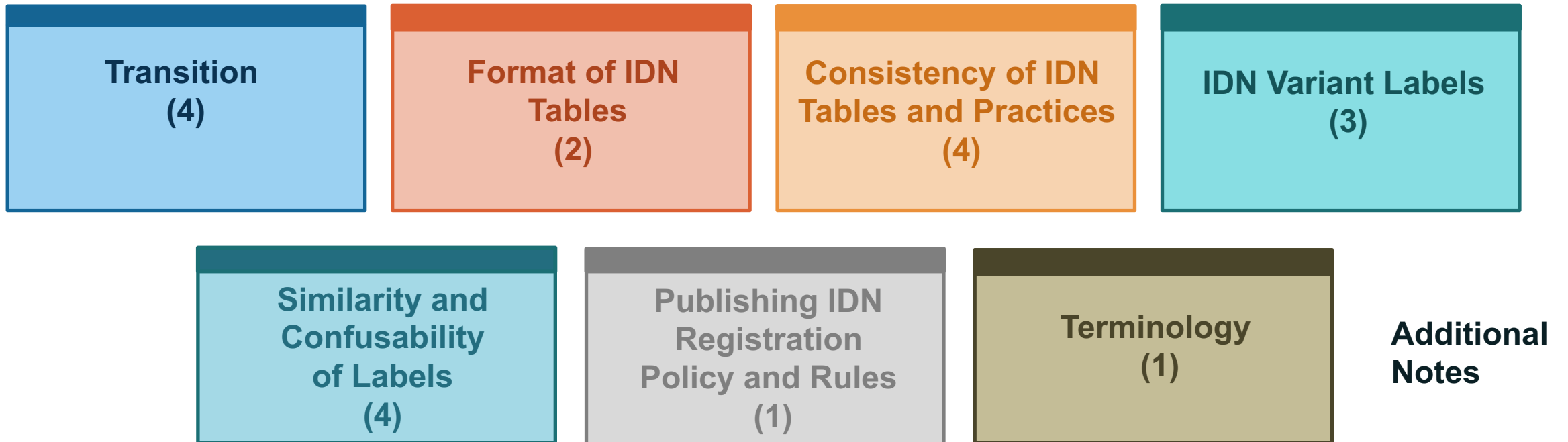
* Successfully evaluated IDN ccTLDs for total countries and territories

IDN ccTLD Fast Track Process

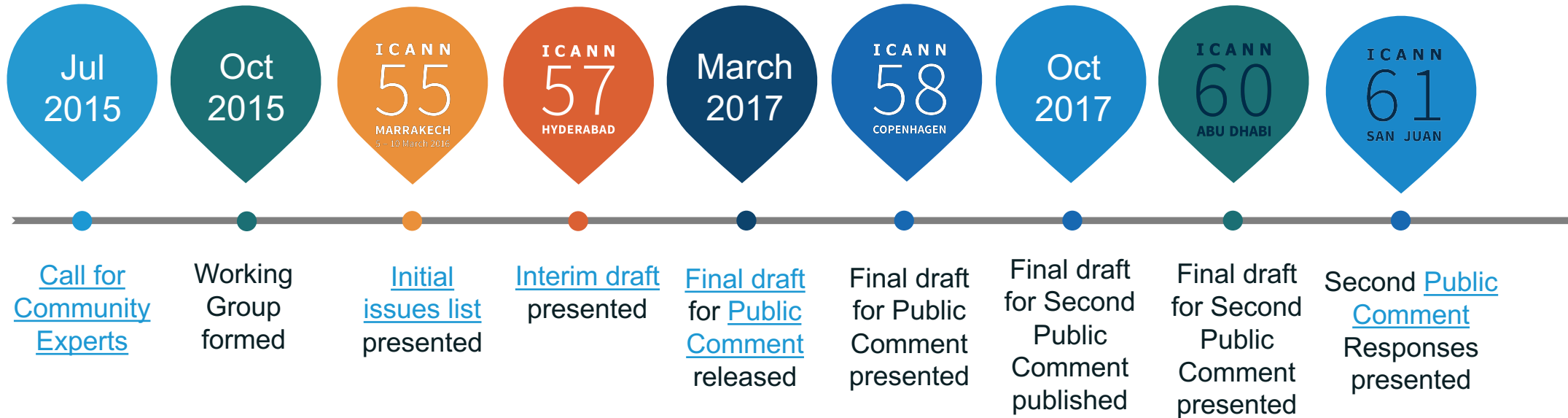
- Launched in late 2009
 - 58 IDN ccTLDs evaluated representing 40 countries/territories
 - 56 IDN ccTLDs delegated representing 38 countries/territories
 - Requests cover 33 languages in 19 scripts
- Currently under review
 - [Public comment](#) in January 2015 raised issues with second similarity review 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
 - ICANN Board [approved](#) risk mitigation step in string similarity in October 2017

IDN Implementation Guidelines

- Scope limited to only the owner-name of the DNS records added to the zone file by the registration system
 - Any glue records and right-hand or target names excluded from scope
- Total of 7 topics with nineteen guidelines and additional notes:



Status



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

Communication and Outreach Efforts

- ⊙ Direct outreach
 - IDN workshop Nov 26-27, Pointe-Noire, Congo
 - Training on IDNs, Dec 2017, Maldives
 - Sinhala GP training and F2F meeting, Dec 2017, Sri Lanka
 - Neo-Brahmi GP F2F meeting, Dec 2017, Sri Lanka
 - Latin GP F2F meeting, Jan 2018, Belgium
- ⊙ [Blog](#) on South Asian Eleven
- ⊙ Updates at ICANN meetings
- ⊙ IDN web pages at icann.org/idn
- ⊙ [IDN community wiki pages](#)
- ⊙ IDN mailing lists: {vip, lgr, ArabicGP, ArmenianGP, ChineseGP, idnafrica ...}@icann.org

Engage with ICANN and IDN Program



Thank You and Questions

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