IDN Program Update to ccNSO

Sarmad Hussain | IDN Program Sr. Manager | 10 Feb. 2015

Agenda

- ⊙ **Overview of IDN Program**

- ⊙ **IDN TLD Program**

- ⊙ **IDN ccTLD Fast Track**

- ⊙ **IDN Tables**

- ⊙ **IDN Implementation Guidelines**

- ⊙ **Communications and Outreach**

- ⊙ **Next Steps**

Overview of IDN Program

- IDN TLD Program
  - Label Generation Ruleset (LGR)
  - LGR Toolset
  - IDN Variant Implementation
- IDN Fast Track Process Implementation
- IDN Tables
- IDN Implementation Guidelines
- Community Outreach

LGR Specification and Tool (P1)	LGR Development (P2.2)
LGR Var. Impl. (P7)	IDN ccTLD Fast Track
IDN Language Tables	IDN Impl. Guidelines
Communications Plan Execution	

IDN TLD Program

Work Under IDN TLD Program

PHASE 1 (2011) Case Studies:

Arabic

Chinese

Cyrillic

Devanagari

Greek

Latin

PHASE 2 (2011-12) Integrated Issues Report

PHASE 3 (2012-13) Projects:

P1 LGR XML Specification

P2.1 LGR Process for the Root Zone

P6 User Experience Study for TLD Variants

PHASE 4 (Since 2013) Projects:

P2.2 LGR Development

P1 LGR Specification and Toolset

P7 LGR Implementation
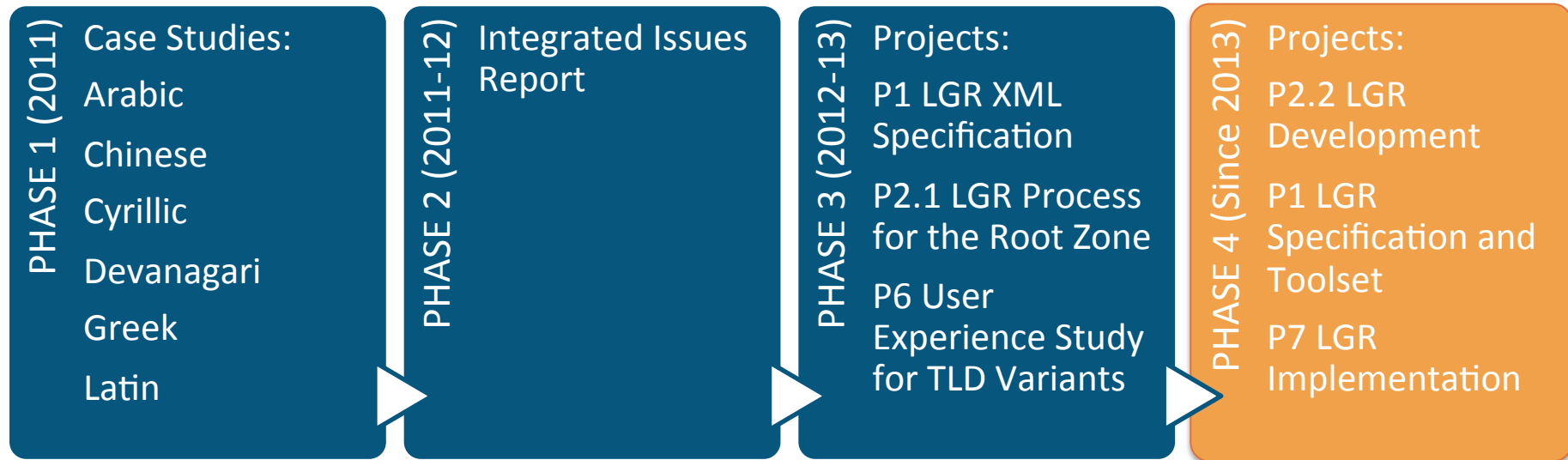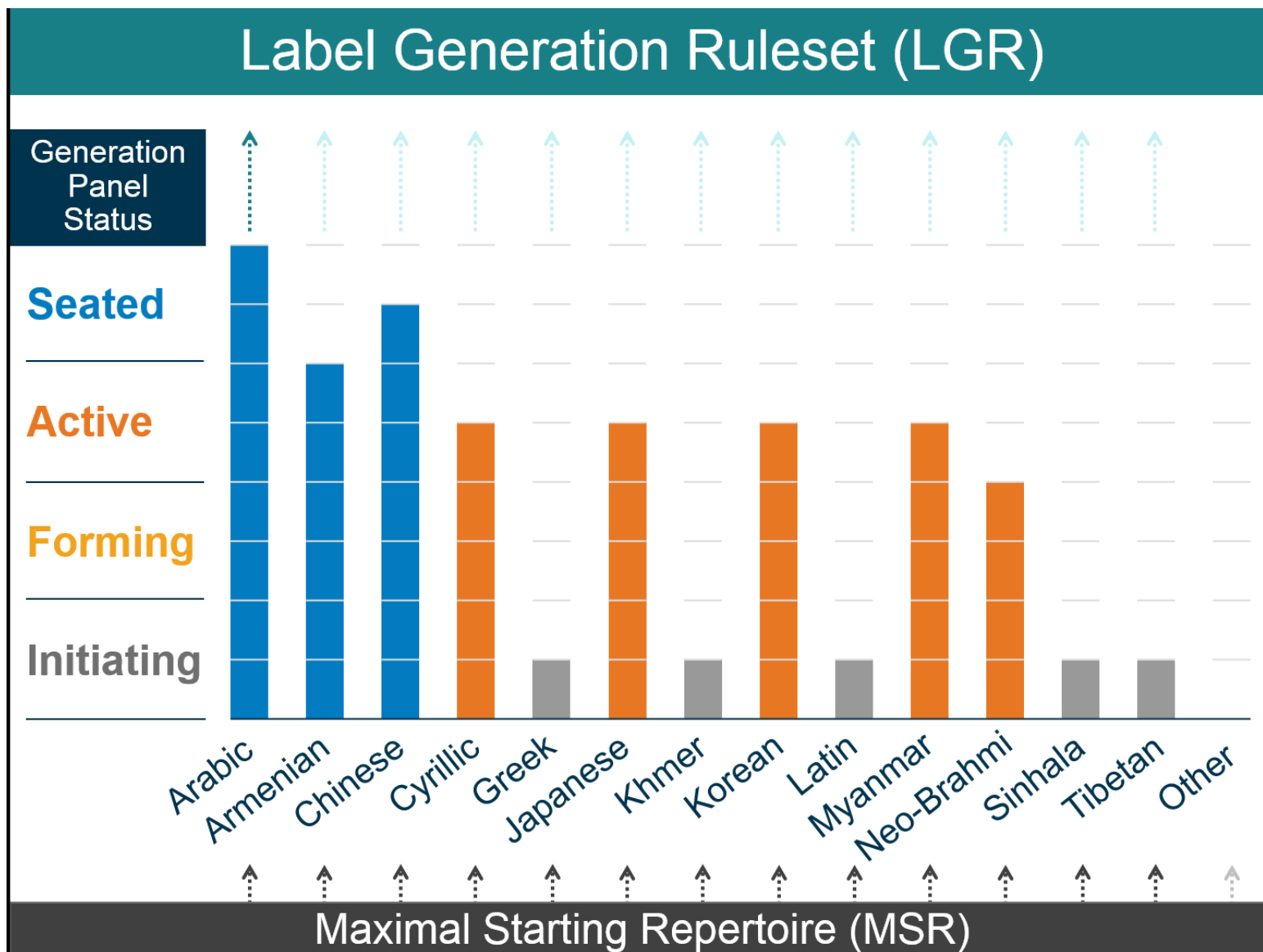
Community agreed to define a Label Generation Ruleset (LGR)

Reports and documentation of all completed projects available at:
https://www.icann.org/resources/pages/reports-2013-04-03-en

Status of Generation Panels

Label Generation Ruleset (LGR)

Maximal Starting Repertoire – Ver. 2 (MSR-2)

◉ MSR-2 released for public comment :
https://www.icann.org/public-comments/msr-2014-12-15-en

◉ Upwardly compatible replacement for MSR-1

◉ Total 28 scripts
   ✧ Six new scripts added
      ✧ Armenian, Ethiopic, Khmer, Myanmar, Thaana, Tibetan
   ✧ Existing scripts in MSR-1 unchanged

Guidelines Document for Generation Panels

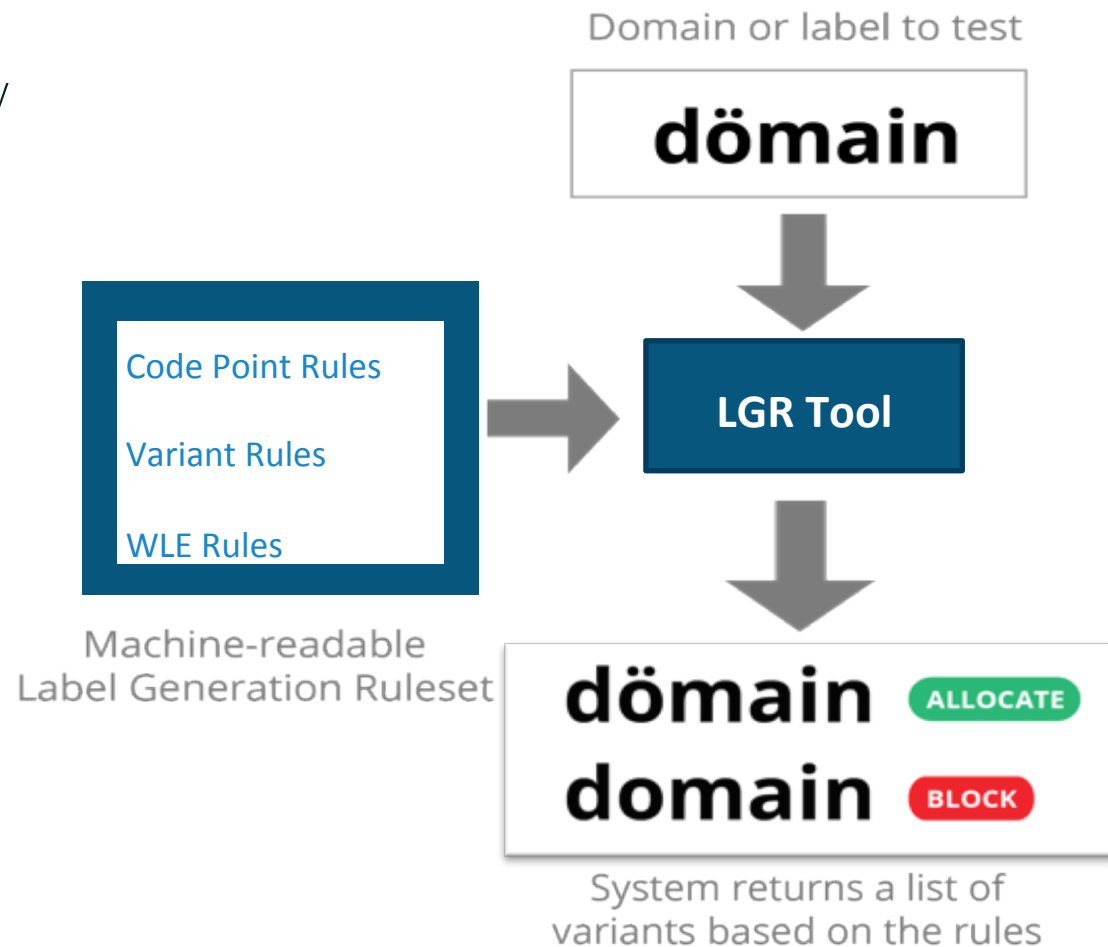⊙ Overview documents released for public comment:
https://www.icann.org/public-comments/lgr-guidelines-2015-01-15-en

  ✧ Guidelines for Developing Script‑Specific Label Generation Rules for Integration into the Root Zone LGR

  ✧ Considerations for Designing a Label Generation Ruleset for the Root Zone

  ✧ Requirements for LGR Proposals

⊙ Background technical documents

  ✧ Variant Rules

  ✧ Whole Label Evaluation (WLE) Rules

  ✧ Representing Label Generation Rulesets using XML

LGR Specification and Toolset

- LGR machine-readable specifications at
  https://datatracker.ietf.org/doc/draft-davies-idntables

- Toolset functional priority
  - Create LGR
  - Use LGR
  - Manage LGRs

  - Open source

Domain or label to test

dömain

Code Point Rules

Variant Rules

WLE Rules

LGR Tool

Machine-readable
Label Generation Ruleset

dömain ALLOCATE

domain BLOCK

System returns a list of
variants based on the rules

IDN ccTLD Fast Track Process

Status of IDN Country Code TLDs

ccTLDs: 45/35*

бел
(by)

укр
(ua)

рф
(ru)

срб
(rs)

мкд
(mk)

ჰე
(ge)

Հայ
(am)

भारत
بھارت
భారత్
ভারত
ভারত
இந்தியா
(in)

каз
(kz)

Мон
(mn)

한국
(kr)

المغرب
(ma)

الجزائر
(dz)

سورية
(sy)

فلسطين
(ps)

عراق
(iq)

پاکستان
(pk)

中国
中國
(cn)

تونس
(tn)

مصر
(eg)

ایران
(ir)

বাংলা
(bd)

台灣
台湾
(tw)

سودان
(sd)

السعودية
(sa)

عمان
(om)

ไทย
(th)

香港
(hk)

الاردن
(jo)

امارات
(ae)

اليمن
(ye)

قطر
(qa)

ලංකා
இலங்கை
(lk)

新加坡
சிங்கப்பூர்
(sg)

ماليسيا
(my)
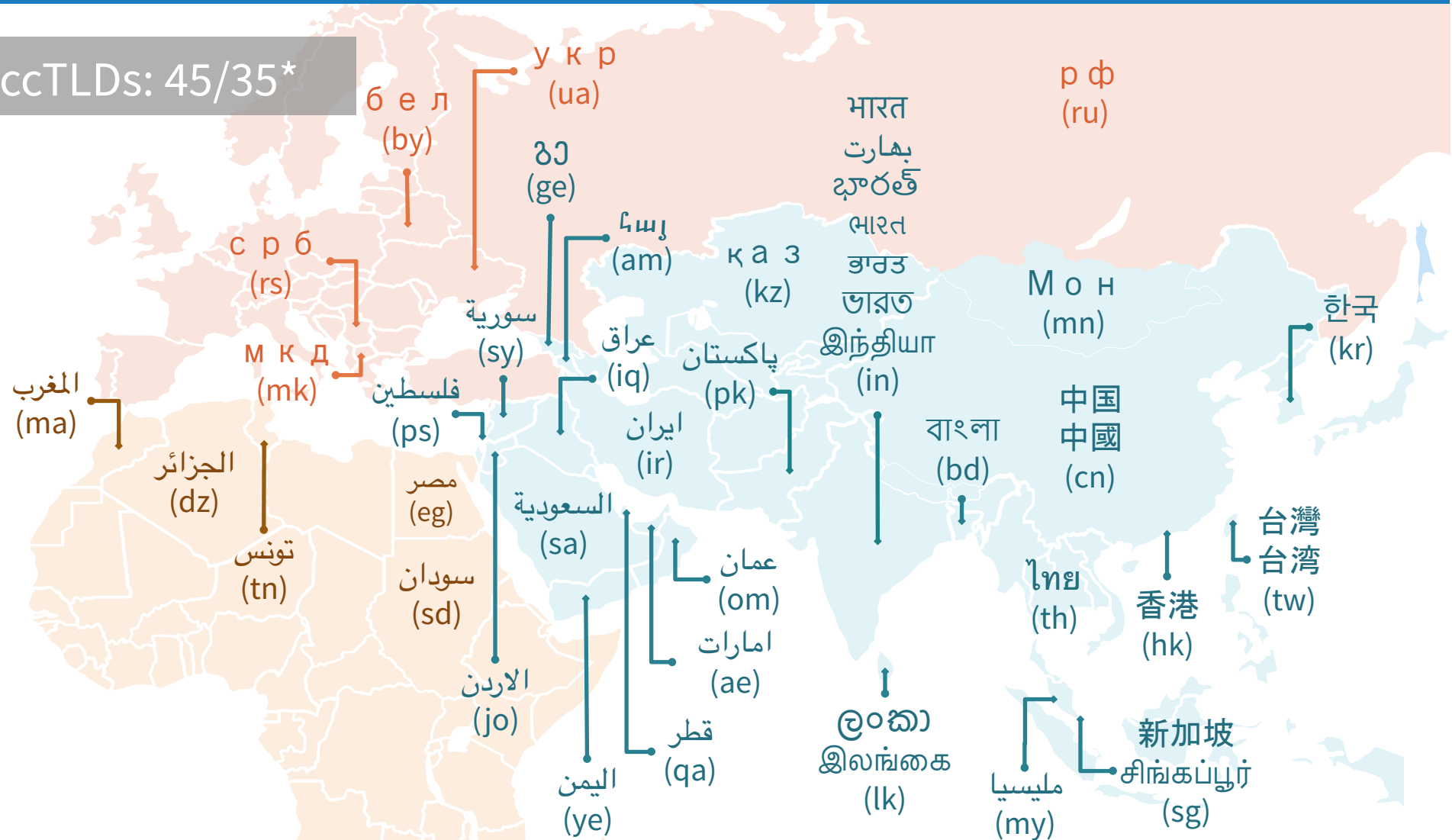
* Successfully evaluated IDN ccTLDs/Total countries/territories

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Overview of IDN ccTLD Fast Track Process

- Completed five years of operation

- Requests in 17 scripts for 26 languages

- 38 IDN ccTLDs delegated in the Root Zone representing 28 countries/territories

- Following ccNSO recommendation, a two-panel string similarity review process was implemented in December 2013
  - The Extended Process Similarity Review Panel (EPSRP) published results of the first set of evaluations in Oct. 2014:

    https://www.icann.org/resources/pages/epsrp-reports-2014-10-14-en

- Currently under annual review through public comment:

    https://www.icann.org/public-comments/idn-cctld-fast-track-2015-01-15-en

IDN Tables

- Submitted by new gTLDs intending to offer IDNs
  - Varied in the character repertoire and contextual rules
- Develop reference Label Generation Rulesets (LGRs) for facilitation and consistency in Pre-Delegation Testing (PDT) and the Registry Service Evaluation Process (RSEP)
- Promote reuse for better end-user experience
- Process:
  1. Develop detailed guidelines
  2. Document authoritative sources and create reference machine-readable LGRs
  3. Conduct expert review of LGRs for content, security and stability
  4. Publish LGRs, authoritative sources and expert reports for each language/script for community feedback
  5. Publish updated reference IDN Tables

Status of IDN Implementation Guidelines

- Last updated in 2011

    - New IDN terminology due to IDN Variant TLD projects
    - Consistent, machine readable format for language tables
    - Updated content: IANA IDNA table with Unicode versions, MSR, LGR
    - Additional guidelines: informational RFC 6912, User Experience study

- **Current status - awaiting community response on list of issues**
    - Letters written to ccNSO and GNSO chairs – 4 Dec. 2014

Communication and Outreach Efforts

- IDN Program sessions at ICANN meetings

- IDN Program updates to SOs/ACs at ICANN meetings

- Presentations at meetings
  - APTLD, APrIGF, ArabIGF, IGFs, TLDCON, AFRINIC, RIPE NCC

- Email communication to SOs/ACs – call to action

- Blog for general community:
  http://blog.apnic.net/2014/09/30/speak-up-for-your-language/

- IDN pages at ICANN Community Wiki and ICANN Website

- IDN mailing lists
  - {vip, lgr, ArabicGP, ArmenianGP, ChineseGP, …}@icann.org

Next Steps

- Support GPs
  - Finalize LGR proposals for seated GPs
  - Seat additional GPs
  - Activate additional GPs
- Work with IP
  - Finalize MSR-2
  - Finalize guidelines for GPs
  - Release LGR-1
- Initiate LGR Tool Set development
- Compile feedback for IDN Implementation Guidelines
- Follow next steps for IDN Variant Implementation
- Develop IDN Tables
- Continue communication and outreach efforts

Questions & Answers

FOR FURTHER DETAILS:

- **IDN Program Update**   (**Wednesday 9:00-10:15am; Sophia**)
- **IDN Root Zone LGR**   (**Wednesday 1:00-2:15pm; Moor**)

USEFUL LINKS:

- To joint a Generation Panel, submit interest at: idntlds@icann.org
- Call for Generation Panels:
  http://www.icann.org/en/news/announcements/announcement-11jul13-en.htm
- LGR Procedure:
  http://www.icann.org/en/resources/idn/variant-tlds/lgr-procedure-20mar13-en.pdf
- MSR-1: https://www.icann.org/news/announcement-2-2014-06-20-en
- MSR-2 PC: https://www.icann.org/news/announcement-3-2014-12-15-en
- LGR Guidelines PC: https://www.icann.org/news/announcement-2-2015-01-15-en
- Community Wiki for LGR Project :
  https://community.icann.org/display/croscomlgrprocedure/Root+Zone+LGR+Project

Engage with ICANN

Thank You and Questions

Reach us at:
Email: engagement@icann.org
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