

# LACRALO Webinar - Next-Generation gTLD Registration Directory Service (RDS) to replace WHOIS

Presented by Lisa Phifer, RDS PDP Policy Staff | 28 July 2016

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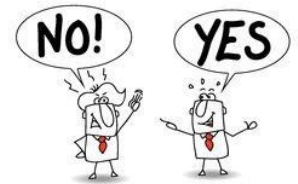
To Learn More



# Background Agenda Item #1

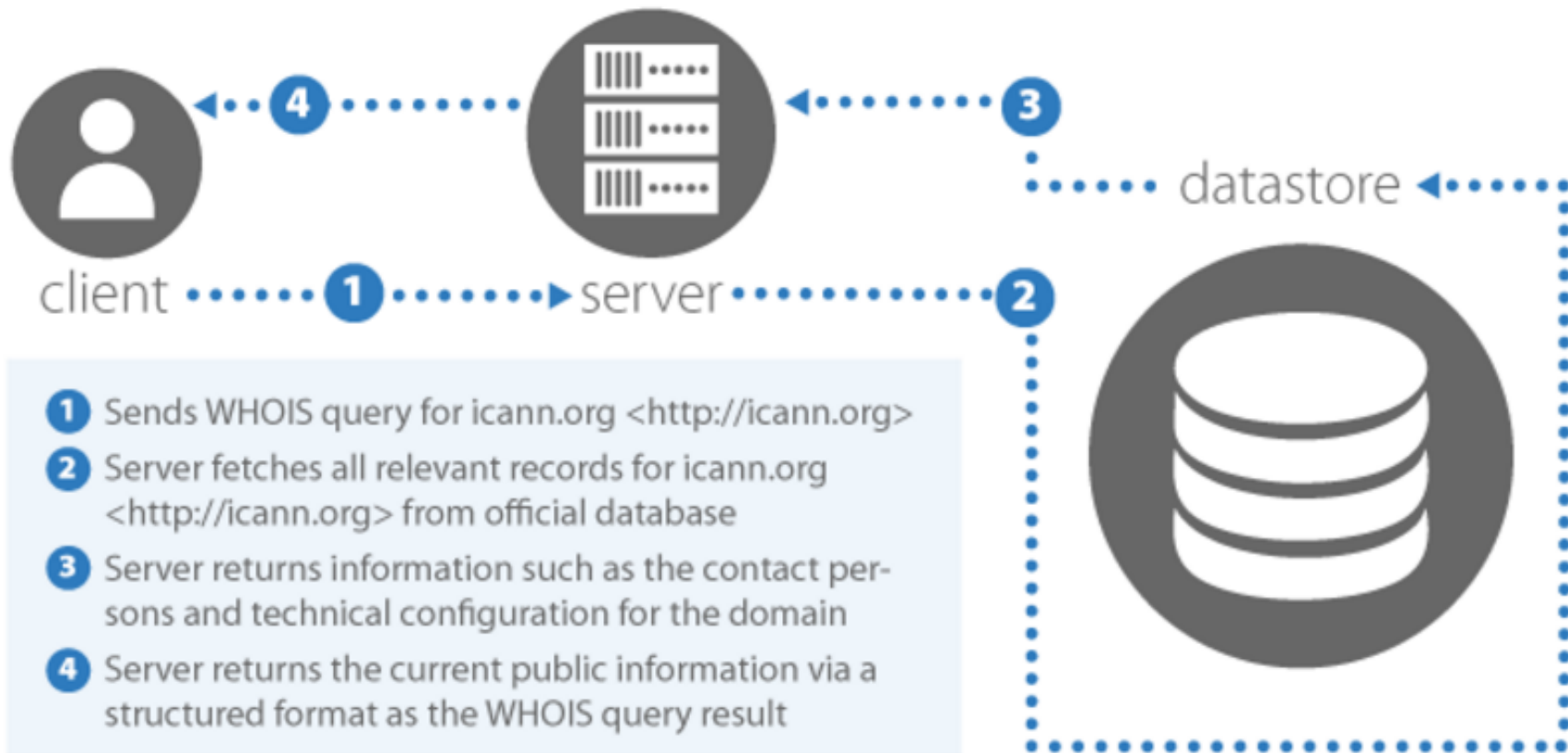
# What is this PDP about?

- WHOIS started in 1982, when the Internet Engineering Task Force (IETF) published a protocol for a directory service for ARPANET users. Initially, the directory listed contact information requested of anyone transmitting data across the ARPANET.
- As the Internet grew, WHOIS began to serve the needs of different stakeholders such as registrants, law enforcement, intellectual property & trademark owners, businesses & individual users - but the protocol remained largely unchanged.
- After nearly 15 years of GNSO task forces, working groups, workshops, surveys & studies, the ICANN community has been unable to reach consensus on comprehensive gTLD WHOIS policy reforms
- In response to the 2012 WHOIS Policy Review Team's Final Report, the ICANN Board launched the RDS PDP & the Expert Working Group (EWG) to inform it, and reconfirmed the request for a PDP in 2014 following the delivery of the EWG Final Report



# Background: What is WHOIS?

“WHOIS” is an overloaded term, used to refer to registration data, the WHOIS access protocol, and the WHOIS directory service...



## WHOIS Query

# Background: Who runs WHOIS?

WHOIS services are provided by registrars & registries for the domain names that they sponsor. Access to this distributed network of independent databases is provided in two ways – through a free web page & through a free Port 43 service



domain registry process

# Background: What data is returned by WHOIS?

Showing results for: ICANN.ORG

Original Query: icann.org



## Contact Information

### Registrant Contact

Name: Domain Administrator  
Organization: ICANN  
Mailing Address: 12025 Waterfront Drive, Los Angeles California 90094-2536 US  
Phone: +1.4242171313  
Ext:  
Fax: +1.4242171313  
Fax Ext:  
Email: domain-admin@icann.org

### Admin Contact

Name: Domain Administrator  
Organization: ICANN  
Mailing Address: 12025 Waterfront Drive, Los Angeles California 90094-2536 US  
Phone: +1.4242171313  
Ext:  
Fax: +1.4242171313  
Fax Ext:  
Email: domain-admin@icann.org

### Tech Contact

Name: Domain Administrator  
Organization: ICANN  
Mailing Address: 12025 Waterfront Drive, Los Angeles California 90094-2536 US  
Phone: +1.4242171313  
Ext:  
Fax: +1.4242171313  
Fax Ext:  
Email: domain-admin@icann.org

## Registrar

WHOIS Server:  
URL: <http://www.godaddy.com>  
Registrar: GoDaddy.com, LLC  
IANA ID: 146  
Abuse Contact Email:  
Abuse Contact Phone:

## Status

Domain Status: clientDeleteProhibited  
<https://www.icann.org/epp#clientDeleteProhibited>  
Domain Status: clientRenewProhibited  
<https://www.icann.org/epp#clientRenewProhibited>  
Domain Status: clientTransferProhibited  
<https://www.icann.org/epp#clientTransferProhibited>  
Domain Status: clientUpdateProhibited .....

To query your own domain name, visit <https://whois.icann.org/>

# Background: WHOIS policies & implementation

- WHOIS policy recommendations are created & refined by the ICANN community through its Supporting Organizations (SOs) & influenced by Advisory Committees (ACs) in a "bottom-up" open & transparent process.
- gTLD WHOIS policies & governing documents include:
  - WHOIS Data Reminder Policy (WDRP)
  - Restored Name Accuracy Policy (RNAP)
  - WHOIS Marketing Restriction Policy (WMRP)
  - Thick WHOIS Policy Development
  - Translation & Transliteration of Contact Information
  - Registry Agreements (RIA)
  - Registrar Agreements (RAA)
  - ICANN Procedure for Handling Conflicts with Privacy Law



Visit <https://whois.icann.org> for links & to learn more

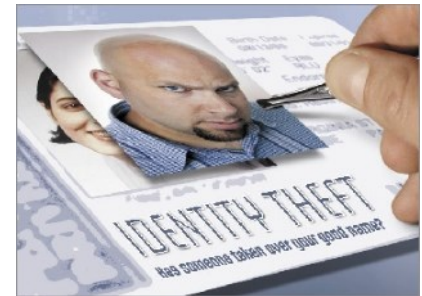


# Overview

## Agenda Item #2

# Many concerns have emerged over the years

- The issues & concerns within the WHOIS debate are varied, reflecting the diversity of the many ICANN stakeholders who collect, maintain, provide or use WHOIS today. Common concerns include...



...AND MORE...

# In 2012, the ICANN Board resolved to

- Launch a new effort to redefine the purpose of collecting, maintaining, & providing access to gTLD registration data, & consider safeguards for protecting data, as a foundation for a new gTLD policy & contractual negotiations, as appropriate
- Prepare an Issue Report on the purpose of collecting & maintaining gTLD registration data & on solutions to improve accuracy & access to gTLD registration data, as part of a Board-initiated GNSO PDP
- These efforts are collectively known as the:

*Next-Generation gTLD  
Registration Directory Services  
to Replace WHOIS  
(Next-Gen RDS) PDP*

# Goal of the Next-Gen RDS PDP

- This PDP has been tasked with defining the purpose of collecting, maintaining and providing access to gTLD registration data and considering safeguards for protecting that data.
- The charter organizes this WG's tasks into three phases

Pre-PDP WG Steps

Phase 1: Policy - Requirements Definition

Phase 2: Policy – Functional Design

Phase 3: Implementation Guidance

Post-WG Steps

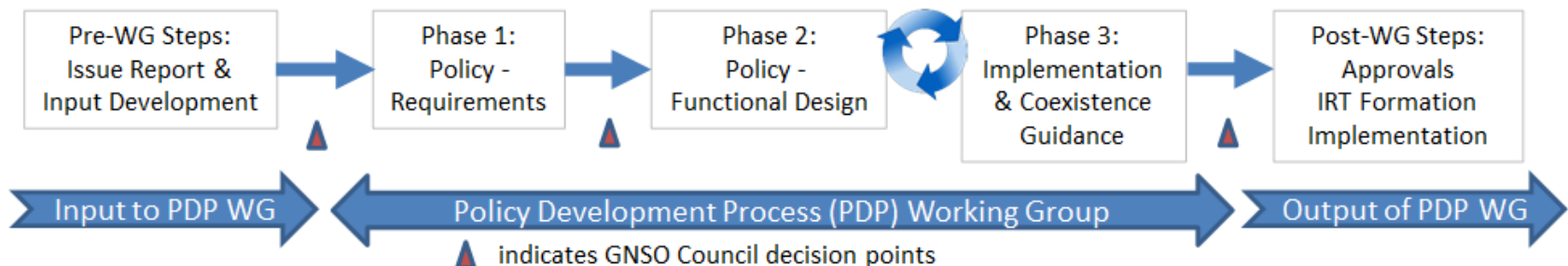
Tasks to be completed **BEFORE** a PDP WG is formed

Policies that establish **IF & WHY** a Next-Gen RDS is needed

Policies that detail **WHAT** a Next-Gen RDS must do

Guidance on **HOW** a Next-Gen RDS should implement policy

Tasks to be completed **AFTER** the WG's final report



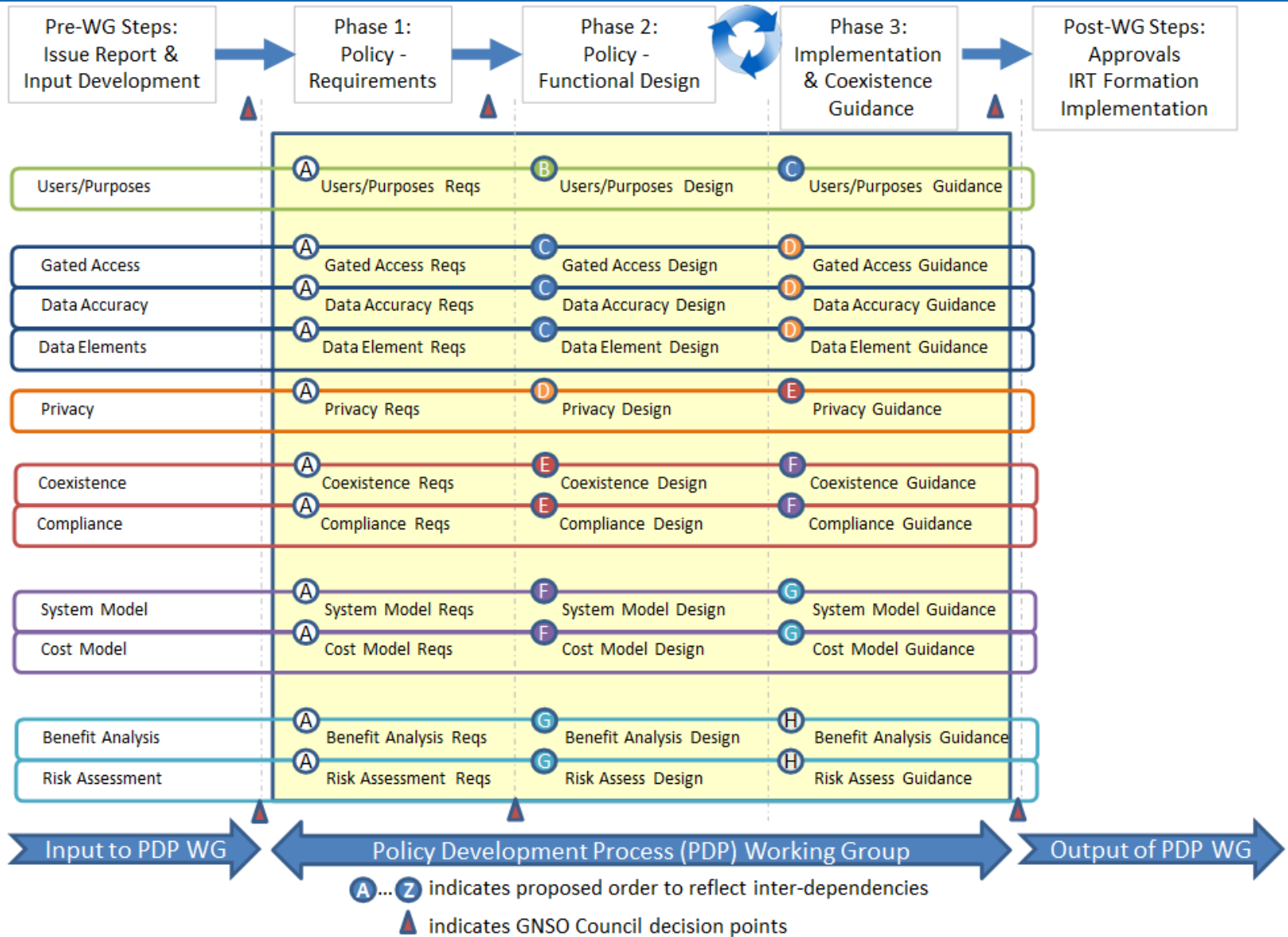
# Specific questions to consider



Within each phase of this PDP, the WG should consider *at a minimum*:

1. **Users/Purposes** – who should have access & why?
2. **Gated access** – what steps should be take to control gTLD registration data access for each user/purpose?
3. **Data accuracy** – what steps should be taken to improve data accuracy?
4. **Data elements** – what data should be collected, stored, disclosed?
5. **Privacy** – what steps are needed to protect data and privacy?
6. **Coexistence** – what steps should be taken to enable next-generation RDS coexistence with and replacement of the legacy WHOIS system?
7. **Compliance** – what steps are needed to enforce these policies?
8. **System model** – what system requirements must be satisfied by any next-generation RDS implementation?
9. **Cost** – what costs will be incurred and how must they be covered?
10. **Benefits** – what benefits will be achieved and how will they be measured?
11. **Risks** – what risks do stakeholders face and how will they be reconciled?

# Organized into three phases





# **Description, Explanation, Purpose**

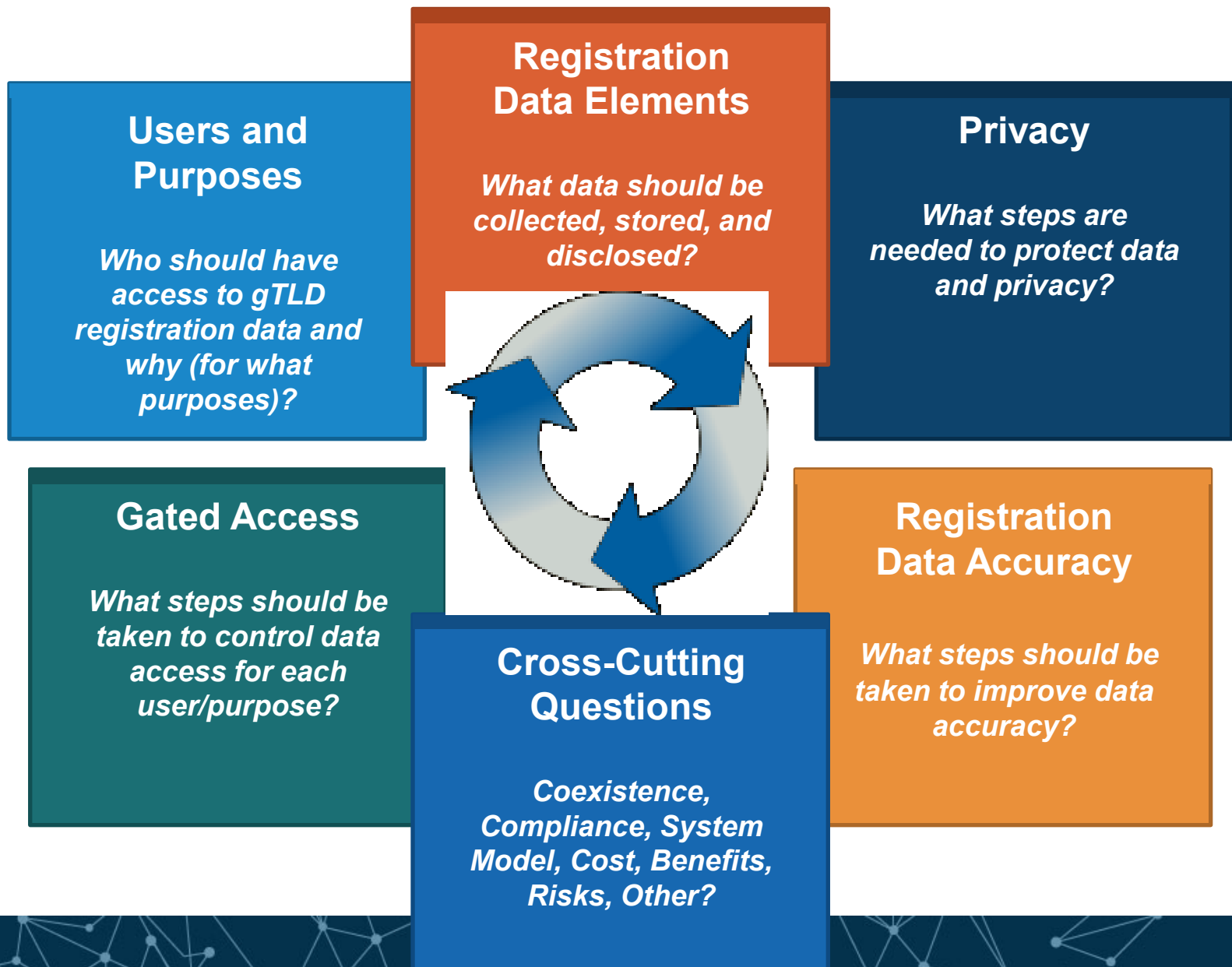
## **Agenda Item #3**

# During Phase 1, this WG will

- Attempt to reach consensus on the following questions (*at a minimum*):
- **What are the fundamental requirements for gTLD registration data?**  
When addressing this, the PDP WG should consider, at a minimum, *users and purposes and associated access, accuracy, data element, and privacy requirements*
- **Is a new policy framework and next-generation RDS needed to address these requirements?**
  - **If yes, what cross-cutting requirements must any next-generation RDS address,** including *coexistence, compliance, system model, and cost, benefit, and risk analysis requirements*
  - **If no, does the current WHOIS policy framework sufficiently address these requirements?** If not, what revisions are recommended to the current WHOIS policy framework to do so?



# The PDP WG is now collecting input on...



# How can you provide input?

- All community members that collect, store, provide, or use registration data using gTLD WHOIS today have an interest in the outcome of this PDP
- Through formal and informal outreach to SO/AC/SG/Cs, the RDS PDP WG is seeking input from all interested parties:
  - Voice your concerns about WHOIS and needs for gTLD registration data
  - Help the WG identify key inputs to inform its deliberations
  - Help augment and shape the possible requirements to be deliberated upon by this WG

# Some examples of “Possible Requirements”

- What about today’s WHOIS system would YOU like to see changed or maintained?  
“WHOIS lacks mechanisms for access control, integrity, and confidentiality.”  
-- *RFC 3912, Privacy & Gated Access*
- What expectations do YOU have for gTLD registration data or gTLD registration directory services?  
“gTLD registration data [must be] collected, validated, and disclosed for permissible purposes only.” -- *EWG Report, Data Elements*
- What topics do YOU want the RDS policy framework to address?  
“There is a critical need for policy asserting the purpose of collecting and maintaining registration data.” -- *SAC051, User/Purpose*  
“Accuracy policies should apply to all registration data without regard to whether internationalized or ASCII data.” -- *SAC051, Data Accuracy*

These are just a few examples, taken from input documents

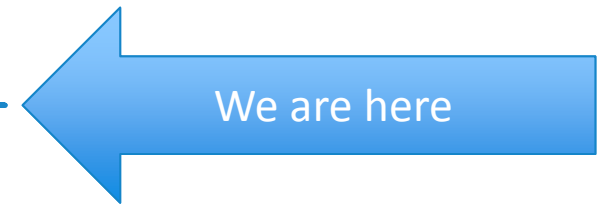


# Next Steps

## Agenda Item #4

### SUMMARY OF PHASE 1 WORK PLAN TASKS

- 1 • Form WG leadership team
- 2 • Review WG membership for gaps
- 3 • Establish WG meeting schedule
- 4 • Review, identify, & summarize key inputs to PDP
- 5 • Review PDP Rules of Engagement
- 6 • Develop PDP WG Work Plan
- 7 • Formal Early Outreach to ICANN SOs/ACs/SGs/Cs
- 8 • Develop Initial Possible Requirements List
- 9 • Informal Outreach on Initial Possible Requirements List
- 10 • Finalize Initial Possible Requirements List
- 11 • Decide how to reach consensus during deliberation
- 12 • Deliberate on possible Fundamental Requirements
- 13 • Expand Phase 1 Work Plan based on Task 12 outcome
- 14 • Outreach on Task 12 Draft Recommendations
- 15 • Deliberate on possible Cross-cutting Requirements for NG RDS or WHOIS
- 16 • Finalize Draft Recommendations
- 17 • Publish Initial Report for Phase 1 for Public Comment
- 18 • Review/analyze Public Comments
- 19 • Publish Final Report for Phase 1



Work Plan posted at:  
<https://community.icann.org/x/olxlAw>

# What will Phase 1 produce?

After this PDP WG considers fundamental questions and deliberates on possible requirements that it may recommend, it has been tasked with using those to try to reach consensus on this foundational question:

*Is a next-generation RDS needed to support gTLD registration data and directory service requirements?*



# What will occur during Phases 2 & 3?

For example, consider Users and Purposes. During Phase 1

The PDP WG will consider whether gTLD registration data should continue to be accessible for any purpose, or whether data should be accessible only for specific purposes. If the WG recommends the latter, it should also recommend permissible users and purposes.

*Phase 1 produces fundamental requirements for registration data, allowing the WG to determine if these requirements are met by WHOIS or should instead be met by a Next-Gen RDS*



If the PDP proceeds, during Phase 2

The WG designs detailed policies to satisfy requirements established in Phase 1. For example, the WG might define data elements accessible for each permissible user and purpose recommended above.

If the PDP proceeds, during Phase 3

The WG creates implementation and coexistence guidance for each policy. For example, in the WG might explore possible Terms of Service for permissible users and purposes and identify implementation challenges that must be overcome.

# This is a complex, structured PDP

## GNSO Policy Development Process \*Summarized

\*Some steps omitted, for brevity.



This PDP will produce reports in each phase and seek many inputs





# To Learn More Agenda Item #5



- RDS PDP WG Wiki: <https://community.icann.org/x/rjJ-Ag>
- PDP WG Charter: <https://community.icann.org/x/E4xlAw>
- PDP WG Membership: <https://community.icann.org/x/l4xlAw>
- [RDS PDP - Monthly Updates](#)
- [RDS PDP Beginner's Tutorial](#) (2 February 2016)
- Key Inputs: <https://community.icann.org/x/qlxlAw>
- Phase 1 Docs: <https://community.icann.org/x/p4xlAw> including [Draft 3: RDS PDP Initial List of Possible Requirements for gTLD registration data and directory services](#) (10 June 2016)

# To learn more



## Thank You and Questions

Reach us at:

Email: [gns0-rds-pdp-wg@icann.org](mailto:gns0-rds-pdp-wg@icann.org)

Website: <http://tinyurl.com/ng-rds>

If you are interested in joining the RDS PDP WG as an active Member or mailing list Observer, please visit the website link above to fill in the [sign up form](#) or send the [Word document form](#) [DOCX, 72 KB] to the [GNSO Secretariat](#).

