Policy Experience Report

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The PDP Cycle

Need

Discuss

Consensus

Implement

Evaluate

https://www.arin.net/policy/pdp.html
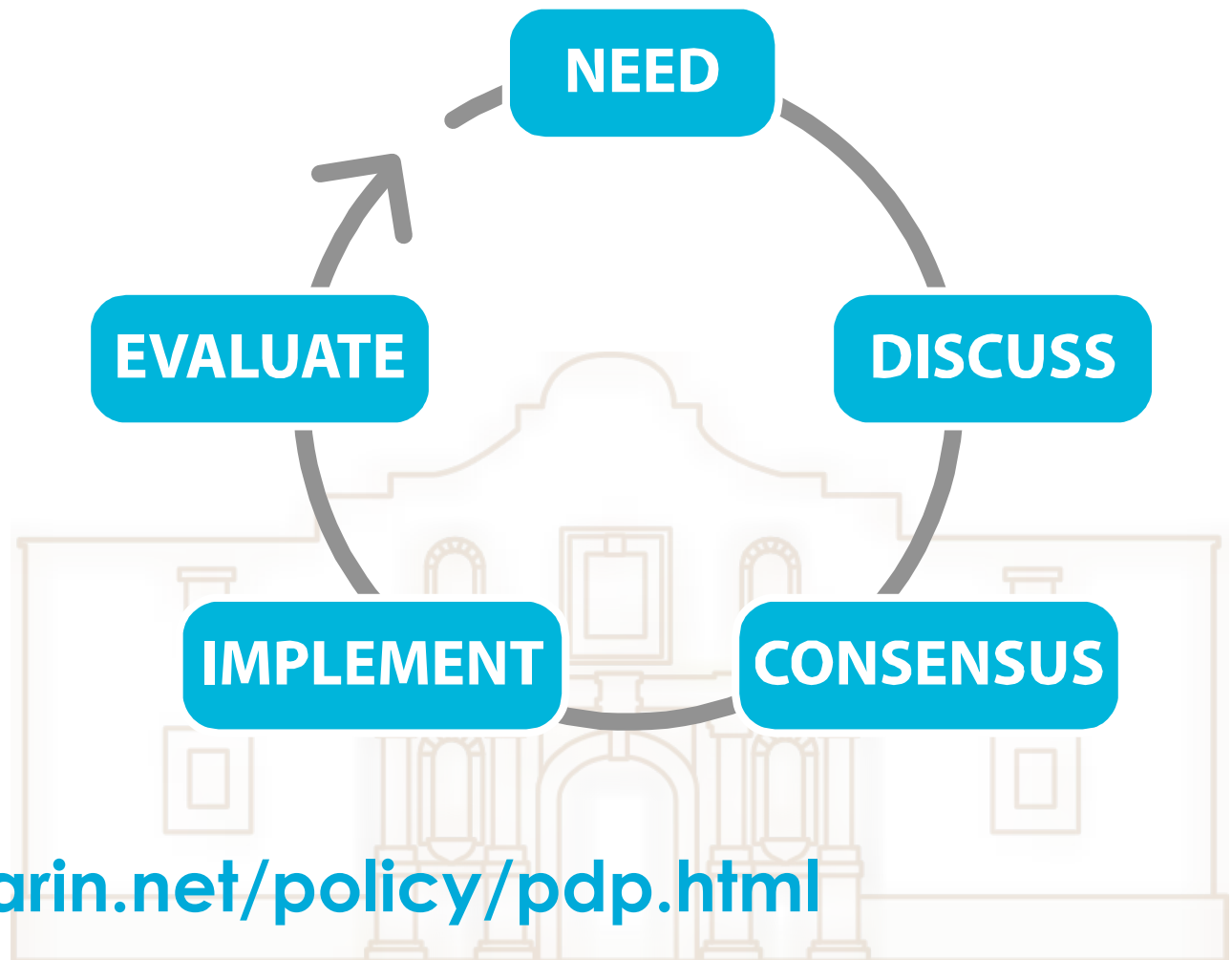
Purpose

- **Review existing policies**
  - Ambiguous text, inconsistencies, gaps, effectiveness

- **Identify areas where new or modified policy may be needed**
  - Operational experience
  - Customer feedback

- **Provide feedback to community**

- **Make recommendations**

Policy Reviewed

- **IPv6 Initial allocation criteria** (NRPM 6.5.1.1)

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Relevant Text (NRPM 6.5.1.1)

3. plan to provide IPv6 connectivity to organizations to which it will assign IPv6 address space, by advertising that connectivity through its single aggregated address allocation;

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Observations

- This single criterion frequent issue for:

  - **Operators with network topologies that can't advertise single aggregated prefix**

    - Multiple discrete PoPs who route only site-specific prefixes

    - Multiple service type networks who route separate prefix for each service to segregate traffic

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Current Situation

- **36 orgs initially denied**
  - All later qualified by saying they would announce the single aggregated prefix or opening separate accounts
    - Likely that some say they will advertise the single aggregated prefix to meet criteria but don't end up doing it

- **Approved if they plan to announce both the single aggregated prefix and more specific routes**
  - Total number of routes aren't reduced by this policy

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Recommendation

- **Remove this requirement from NRPM 6.5.1.1 (criteria # 3)**
  - Problematic for some network operators
  - Criteria contributes to general assumption that /32 is longest globally routable prefix
  - Total number of routes aren't reduced by this policy