



First Timers' Orientation

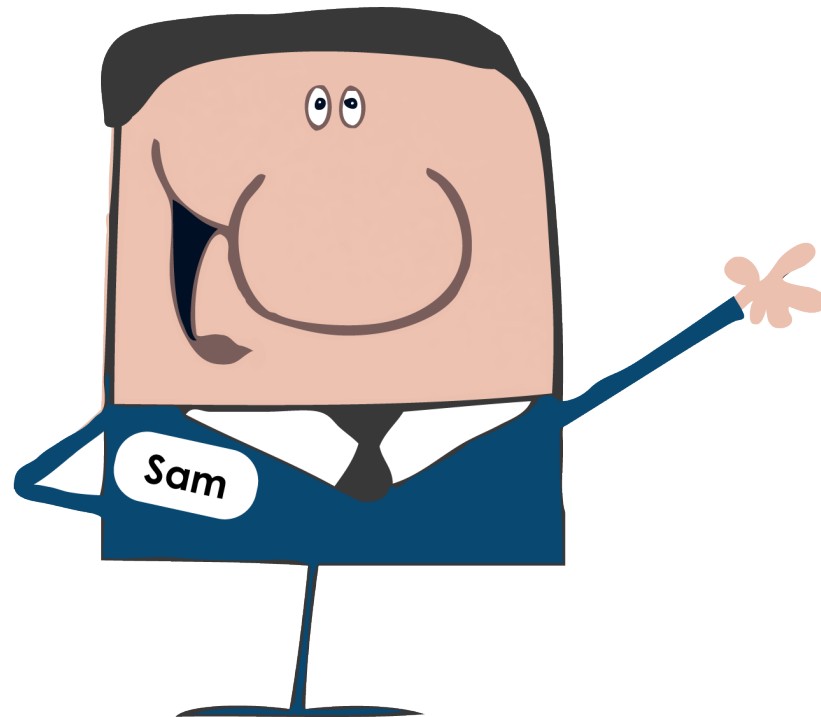
Richard Jimmerson



First Timers' Orientation

- Brief introductions
- ARIN and the Internet registry system
- Policy development at a glance
- What's ahead and how to participate
- Q&A

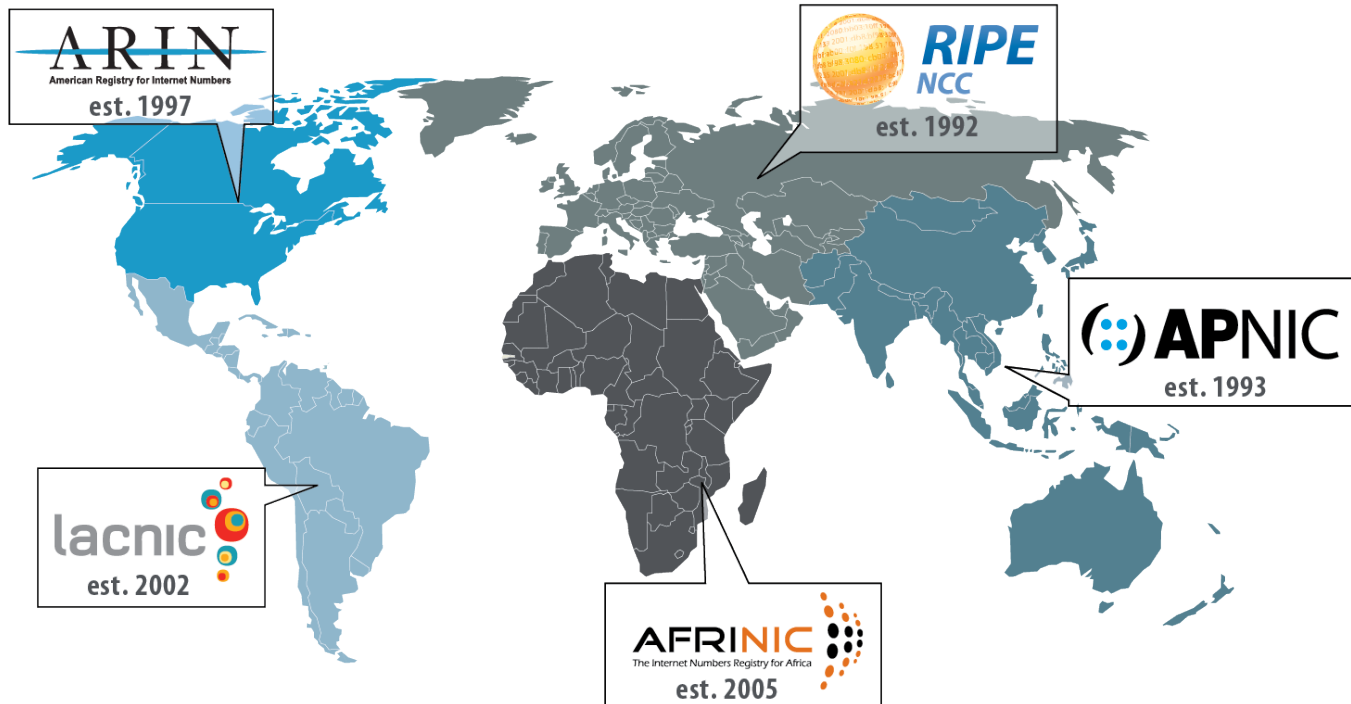
Self-introductions



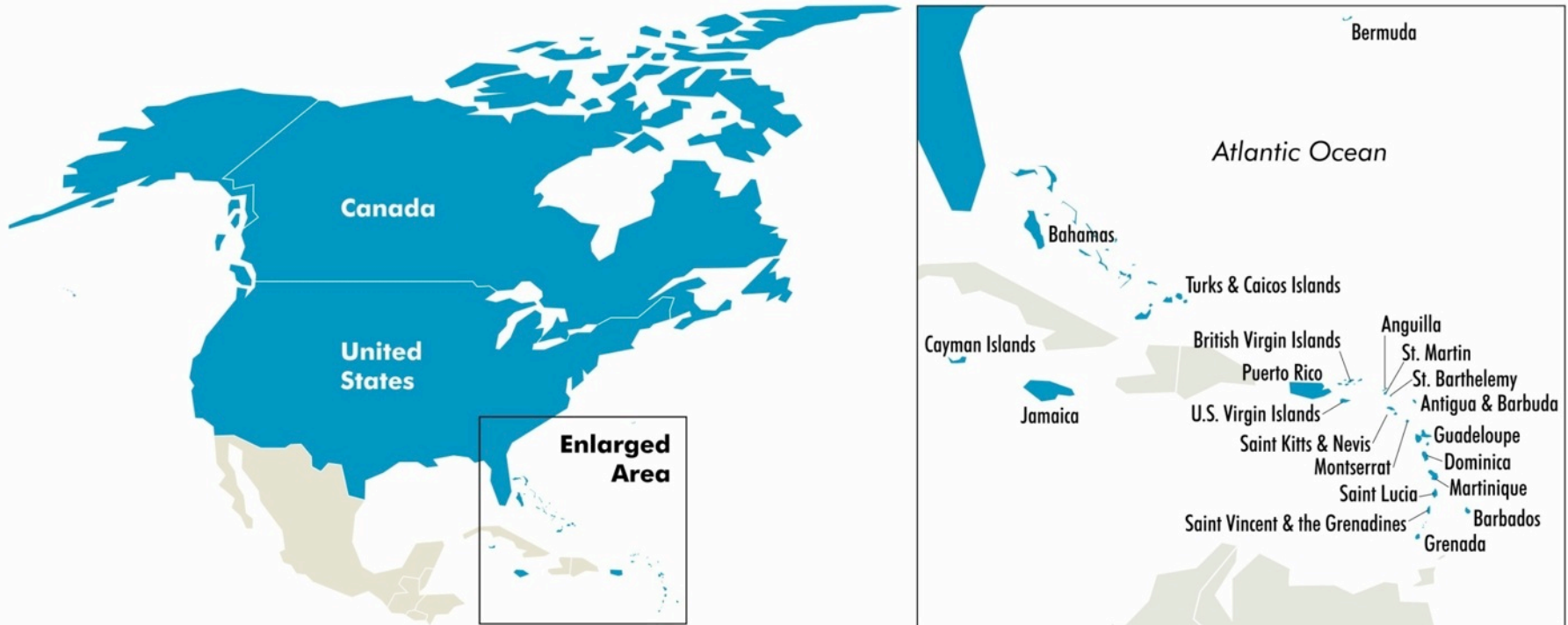


Regional Internet Registries (RIRs)

- The system began in 1992
- There are five RIRs:



ARIN's Service Region



ARIN's region includes Canada, many Caribbean and North Atlantic islands, US Minor Outlying Islands and the United States.



ARIN' s Mission

ARIN, a nonprofit member-based organization supports the operation of the Internet through:

- **the management of Internet number resources throughout its service region;**
- **coordinates the development of policies by the community for the management of Internet Protocol number resources; and**
- **advances the Internet through informational outreach.**

Who is the ARIN community?



Anyone with an interest in Internet number resource management in the ARIN region



The ARIN Community includes...

- 20,000+ customers
- 5,230+ members
- 75+ professional staff
- 7 member Board of Trustees
 - elected by the membership
- 15 member Advisory Council
 - elected by the membership
- 3 person Number Resource Organization Number Council
 - 2 elected by the ARIN Community/1 appointed by ARIN Board



ARIN Structure



Nonprofit	Membership Organization	Community-regulated
<ul style="list-style-type: none">• Fee for services, not number resources• 100% community funded	<ul style="list-style-type: none">• Broad-based<ul style="list-style-type: none">- Private sector- Public sector- Civil society	<ul style="list-style-type: none">• Community developed policies• Member-elected executive board• Open and transparent

ARIN Board of Trustees



- Paul Andersen, *Vice Chair and Treasurer*
- Vinton G. Cerf, *Chair*
- John Curran, *President and CEO*
- Timothy Denton, *Secretary*
- Aaron Hughes
- Bill Sandiford
- Bill Woodcock

ARIN Advisory Council



- Dan Alexander, Chair
- Cathy Aronson
- Kevin Blumberg, Vice Chair
- Owen DeLong
- Andrew Dul
- David Farmer
- David Huberman
- Scott Leibrand
- Tina Morris
- Milton Mueller
- Leif Sawyer
- Heather Schiller
- Robert Seastrom
- John Springer
- Chris Tacit

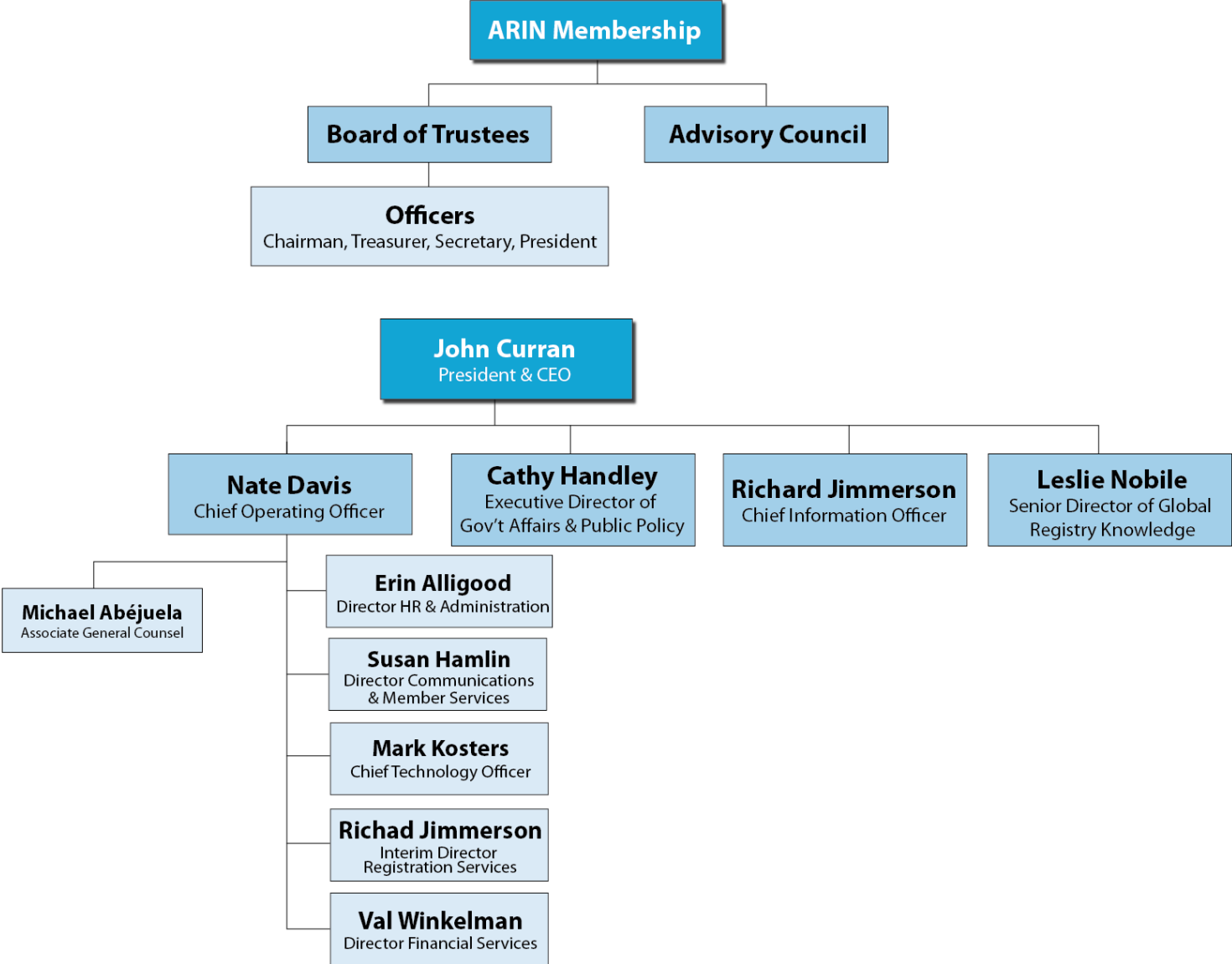


Number Resource Organization Number Council

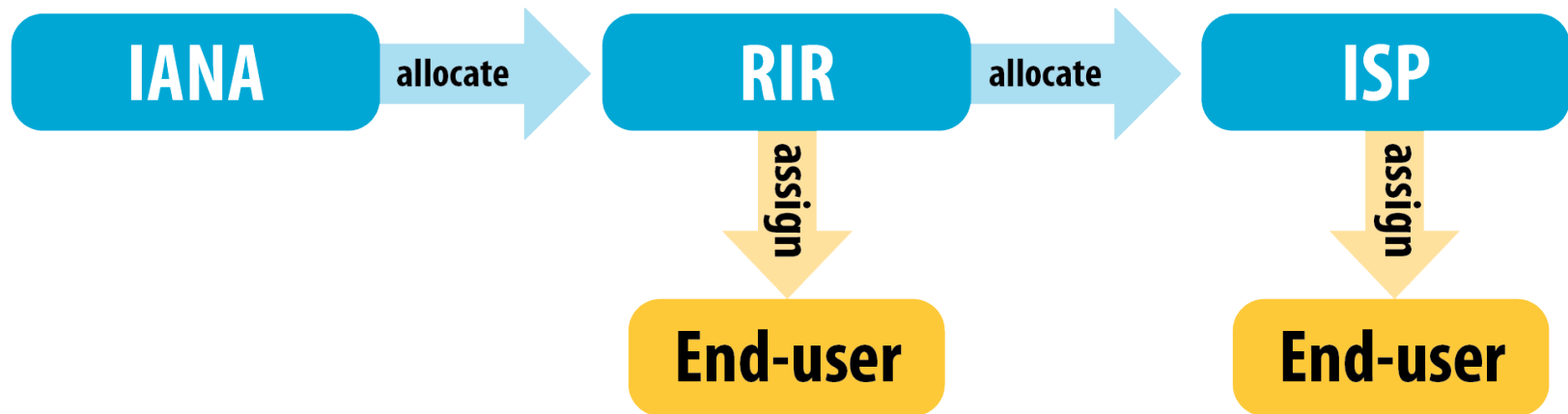
Representatives serving from the ARIN region:

- Louis Lee, Chair
- Jason Schiller
- John Sweeting

Organizational Chart



IP Address and Autonomous System Number Provisioning Process



ARIN Services and Products



ARIN Manages:

IP address allocations & assignments

ASN assignment

Transfers

Reverse DNS

Record Maintenance

Directory service

Whois

Routing Information (Internet Routing Registry)

WhoWas



ARIN Services and Products

ARIN coordinates and administers:

- Policy Development

 - Community meetings

 - Discussion

 - Publication

- Elections

- Information publication and dissemination and public relations

- Community outreach

- Education and training

ARIN Services and Products



**ARIN develops technologies for managing
Internet number resources:**

ARIN Online

Community Software Project Repository

DNSSEC

Resource Certification (RPKI)

Whois-RWS

Reg-RWS



Policy Development Principles

Open

- **Developed in open forum**
 - Public Policy Mailing List
 - Public Policy Meetings
- **Anyone can participate**

Transparent

- **All aspects documented and available on website**
 - Policy process, meetings, and policies

Bottom-up

- **Policies developed by the community**
- **Staff implements, but does not make policy**



Who Plays a Role in the Policy Process?

Community

- Submits proposals
- Participates in discussions and petitions

Advisory Council (elected volunteers)

- Facilitates the policy process
- **Develops policy:**
 - Enables fair and impartial resource administration
 - Technically sound
 - Supported by the Community
- **Determines consensus based on community input**

Roles...



ARIN Board of Trustees (elected volunteers)

- *Provides corporate fiduciary oversight*
- *Ensures the policy process has been followed*
- *Ratifies policies*

ARIN Staff

- **Provides feedback to community**
 - Staff and legal assessments for all proposals
 - Policy experience reports
- **Implements ratified policies**



Policy Development Process

Basic Steps

1. Community member submits a Proposal
2. Advisory Council (AC) works with submitter to ensure clear problem statement and suggested policy change
3. AC puts Draft Policy on PPML for community discussion/ feedback (possibly presented at PPC/PPM)
4. AC decides: continue work or abandon
5. AC recommends fully developed Draft Policy (fair, sound and supported by community) for adoption
6. Recommended Draft Policy presented at PPC/PPM
7. If AC still recommends adoption, then Last Call and review of last call
8. Petition process available throughout at AC actions
9. Board review
10. Staff implements



Number Resource Policy Manual

<http://www.arin.net/policy/nrpm.html>

ARIN
American Registry for Internet Numbers

Your IPv4 address is 192.149.252.11

SEARCH Whois advanced search

NUMBER RESOURCES PARTICIPATE POLICIES FEES & INVOICES KNOWLEDGE ABOUT US

ARIN ONLINE

Username and password are case sensitive.

username: new user?

password: assistance

log in About ARIN Online

ARIN NUMBER RESOURCE POLICY MANUAL

SEARCH THIS SECTION Advanced Search

Version 2012.2 - 10 February 2012

This is ARIN's Number Resource Policy Manual (NRPM). It is available at: <https://www.arin.net/policy/>. This version supersedes all previous versions.

NRPM

- Change Log
- PDF
- Index

CONTENTS

- Introduction
- Definitions
 - Internet Registry (IR)
 - Regional Internet Registry (RIR)
 - [Section Number Retired]
 - Local Internet Registry (LIR)
 - Allocate and Assign
 - End-user
 - Multihomed
 - Utilization (IPv6)
 - HD-Ratio
 - End site
 - Community Network
 - Organizational Information
 - Residential Customer
 - Serving Site (IPv6)
 - Provider Assignment Unit (IPv6)
 - Utilized (IPv6)
- Directory Services
 - Bulk Copies of ARIN's Whois
 - Distributed Information Server Use Requirements
 - Privatizing POC Information
 - Domain Registrar

Policies Covered:

- IPv4 Address Space
- IPv6 Address Space
- Autonomous System Numbers (ASNs)
- Directory Services (WHOIS)
- Reverse DNS (in-addr)
- Transfers
- Experimental Assignments
- Resource Review Policy



Policy discussions at this meeting

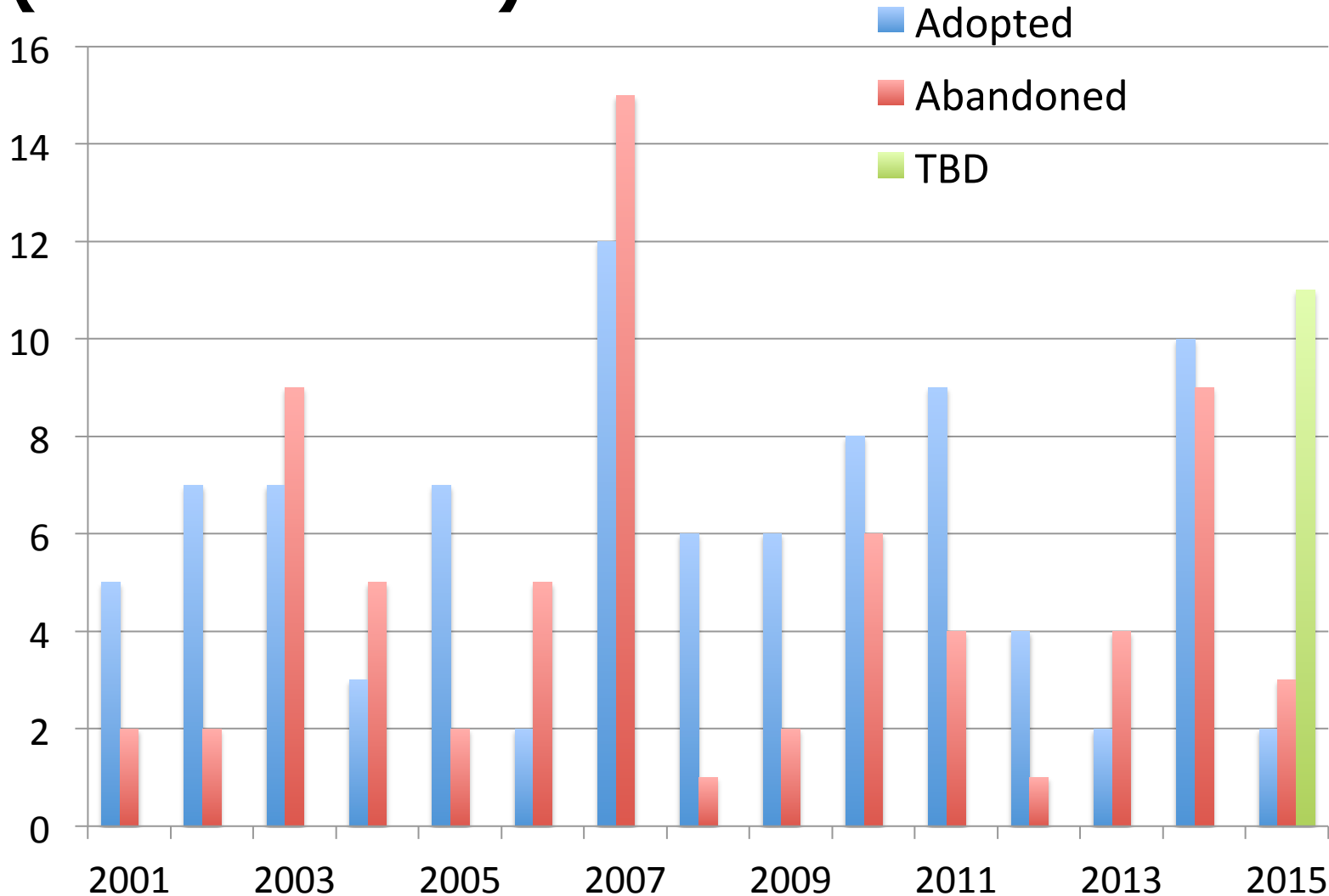
- **Recommended Draft Policy ARIN-2015-1: Modification to Criteria for IPv6 Initial End-User Assignments**
 - Would add another way for end users to qualify for IP space (minimum of 13 sites)
- **Draft Policy ARIN-2015-2: Modify 8.4 (Inter-RIR Transfers to Specified Recipients)**
 - Currently transfer recipients can become a transfer source only after a period of 12 months. Proposal would remove the 12-month restriction.
- **Draft Policy ARIN-2015-3: Remove 30 day utilization requirement in end-user IPv4 policy**
 - Would remove 25% immediate use criteria.
- **Recommended Draft Policy ARIN-2015-4: Modify 8.2 section to better reflect how ARIN handles reorganizations**
 - Would clarify that NRPM 8.2 is for “Mergers, Acquisitions and Reorganizations”
- **Draft Policy ARIN-2015-5: Out of region use**
 - Would allow requests for use outside the ARIN region.
- **Draft Policy ARIN-2015-6: Transfers and Multi-national Networks**
 - Currently transfer recipients cannot claim out of region use, nor can they request space to be used outside the ARIN region. Out of region use and requests for space outside the ARIN region would be allowed.



Policy discussions at this meeting (cont.)

- **Draft Policy ARIN-2015-7: Simplified requirements for demonstrated need for IPv4 transfers**
 - Would add another way for recipients in the ARIN region to qualify for an IPv4 transfer (show 50% use of all space within two years, with officer attestation).
- **Draft Policy ARIN-2015-8: Reassignment records for IPv4 End-Users**
 - Would allow end users to create reassignment records.
- **Draft Policy ARIN-2015-9: Eliminating needs-based evaluation for Section 8.2, 8.3, and 8.4 transfers of IPv4 netblocks**
 - Transfer recipients would not be required to demonstrate need.
- **Draft Policy ARIN-2015-10: Minimum IPv6 Assignments**
 - Would create a minimum reassignment size of /56.
- **Draft Policy ARIN-2015-11: Remove transfer language which only applied pre-exhaustion of IPv4 pool**
 - Post IPv4 exhaustion clean up.

Proposals at Public Policy Meetings (AC workload)





How to monitor and not be overwhelmed?

Once a month:

- Front page of the website leads to proposals and draft policies under discussion
 - New proposals need feedback for the AC's initial decision
 - Web site can help you focus on what's important to you and your company

Twice per year:

- Check the ARIN Public Policy Meeting site in the weeks leading up to the meeting
 - Proposals/Draft Policies on Agenda
 - Discussion Guide (summaries, text, staff assessments)
 - Attend in Person/Remote
- AC meeting last day: Watch list for AC's decisions, Last Calls – State your opinion, are you For or Against?



What's Ahead this week

Thursday: Le Grand Salon

ARIN Public Policy Meeting 9:00 AM – 5:00 PM

ARIN Social 7:00 PM – 11:00 PM– offsite at Cirque Eloize

- See signs and flyers for bus information

Friday: Le Grand Salon

ARIN Public Policy Meeting 9:00 AM – Noon

ARIN Members Meeting (open to all) 1:00 PM – 3:00 PM

Breakfast (F) and lunch (Th,F) – Duluth/Mackenzie



Ways to participate this week: Membership is not required 😊

- Meet your fellow attendees at meals and during breaks
- Join a lunch table topic discussion led by an Advisory Council member
- ARIN Board, Advisory Council, NRO Number Council and Staff all have ribbons on our name tags – seek us out and ask questions
- Go the floor microphones in the meeting room, be sure to state name and organization upfront
- Raise your hand to voice your opinion when votes are taken during policy discussions

Participate in ARIN



Contribute your Opinions and Ideas:

- Public Policy Mailing List
- IPv6 Wiki
- Be a Get6 Forward Thinker
- Attend Public Policy and Members Meetings, Public Policy Consultations, outreach events
- Submit a suggestion
- Participate in community consultations
- Write a Guest Blog
- Members – Vote in annual elections





ARIN on Social Media



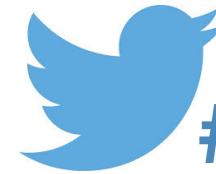
www.TeamARIN.net



www.facebook.com/TeamARIN



@TeamARIN



#ARIN35



www.gplus.to/TeamARIN



www.linkedin.com/company/ARIN



www.youtube.com/TeamARIN



Don't Forget Your Survey

Please complete the survey form and drop it in the bowl.

Be present in the meeting room tomorrow morning at the start for the drawing – you might win a Think Geek gift certificate!

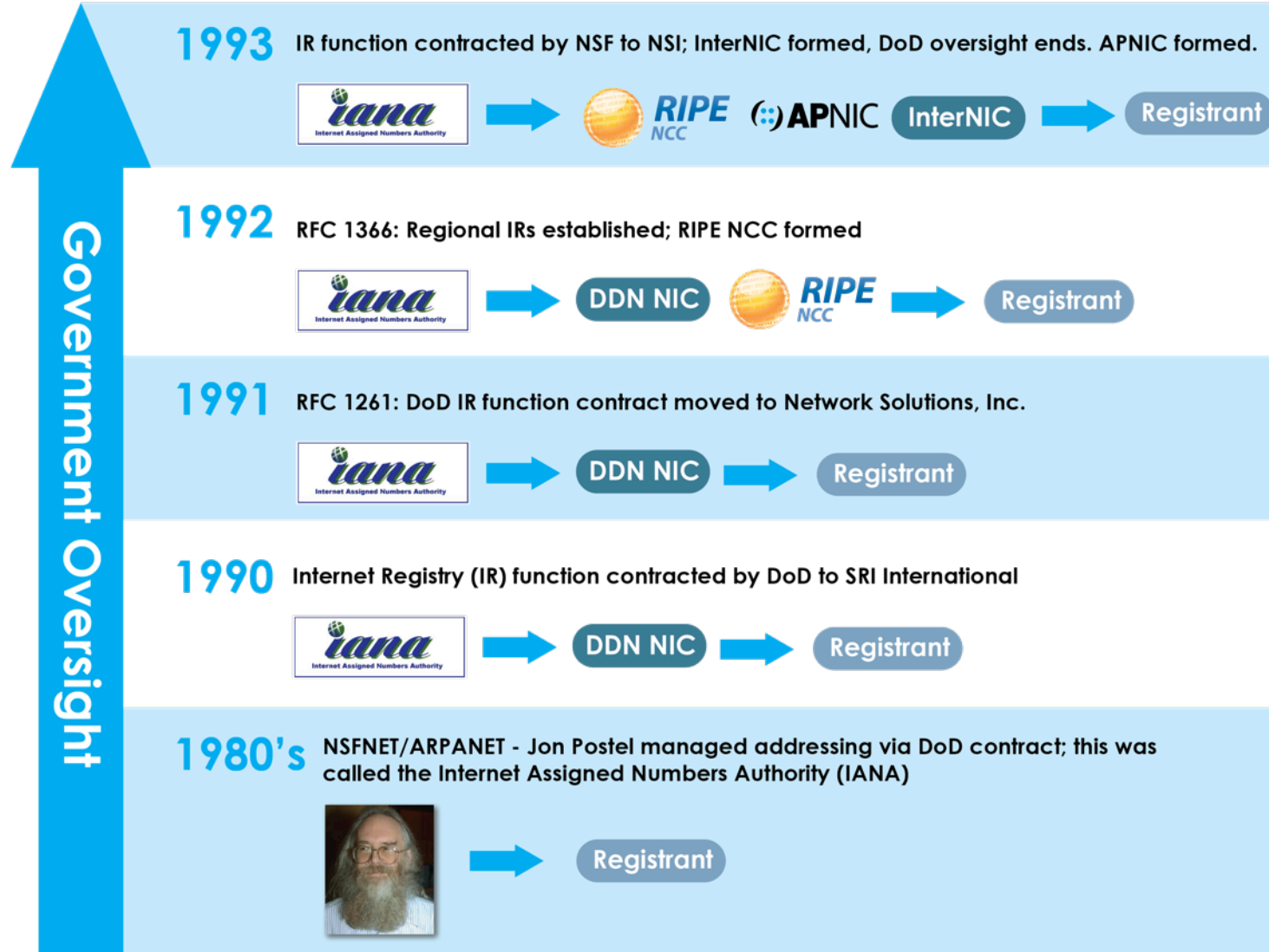


Questions?



Reference Material

Historical Timeline



Historical Timeline



Community Oversight

2005 Regionalization complete; AfriNIC formed



2002 Regionalization continues; LACNIC formed



1998 ICANN formed by US Gov't (top level technical coordination)



1997 IR regionalization continues; ARIN formed. USG oversight of IR function ends.

