



# First Timers' Orientation

Richard Jimmerson

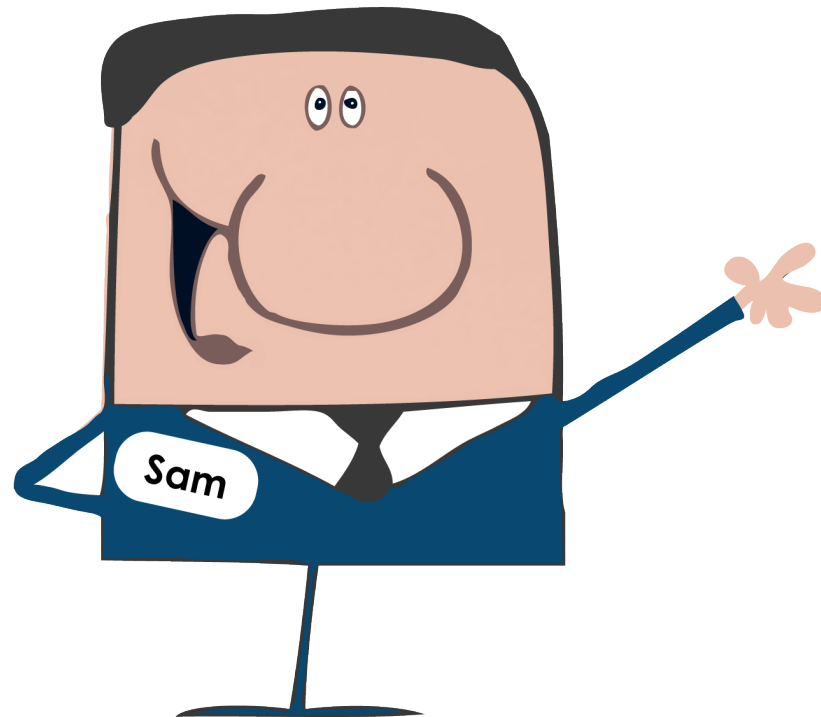
Chief Information Officer



# 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

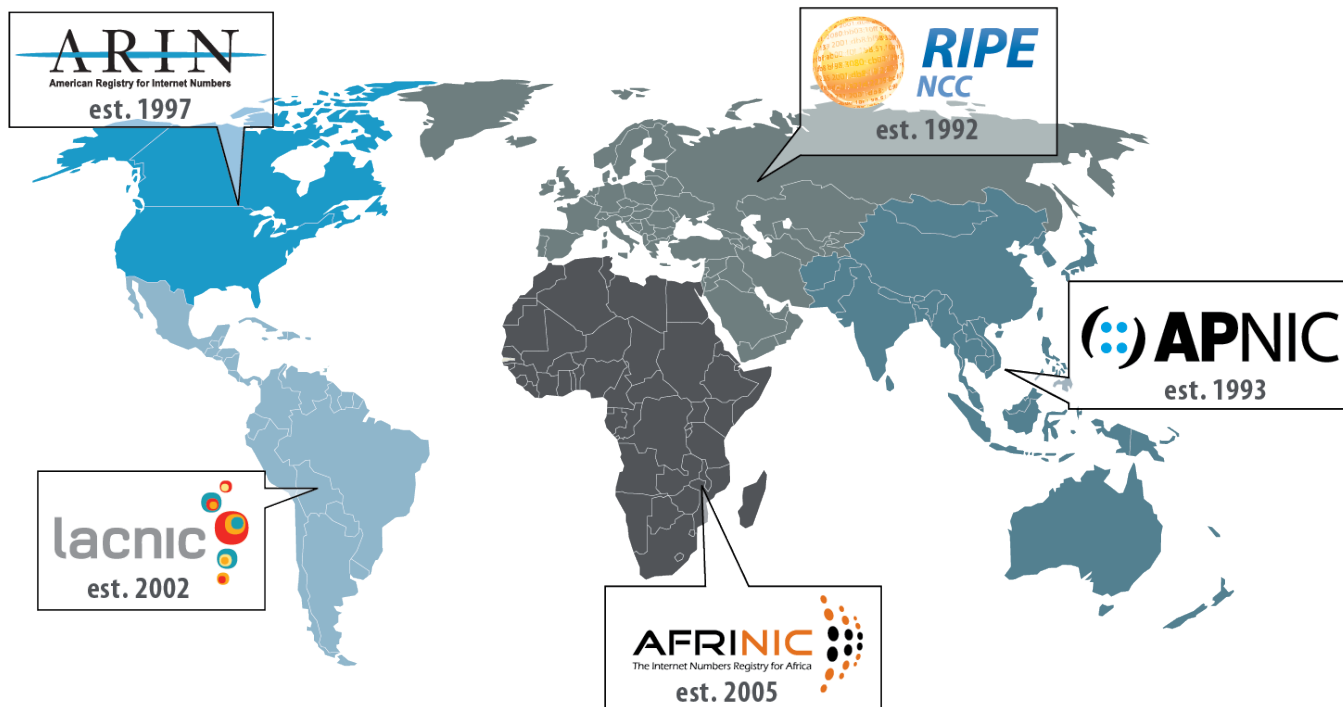
# Self-introductions



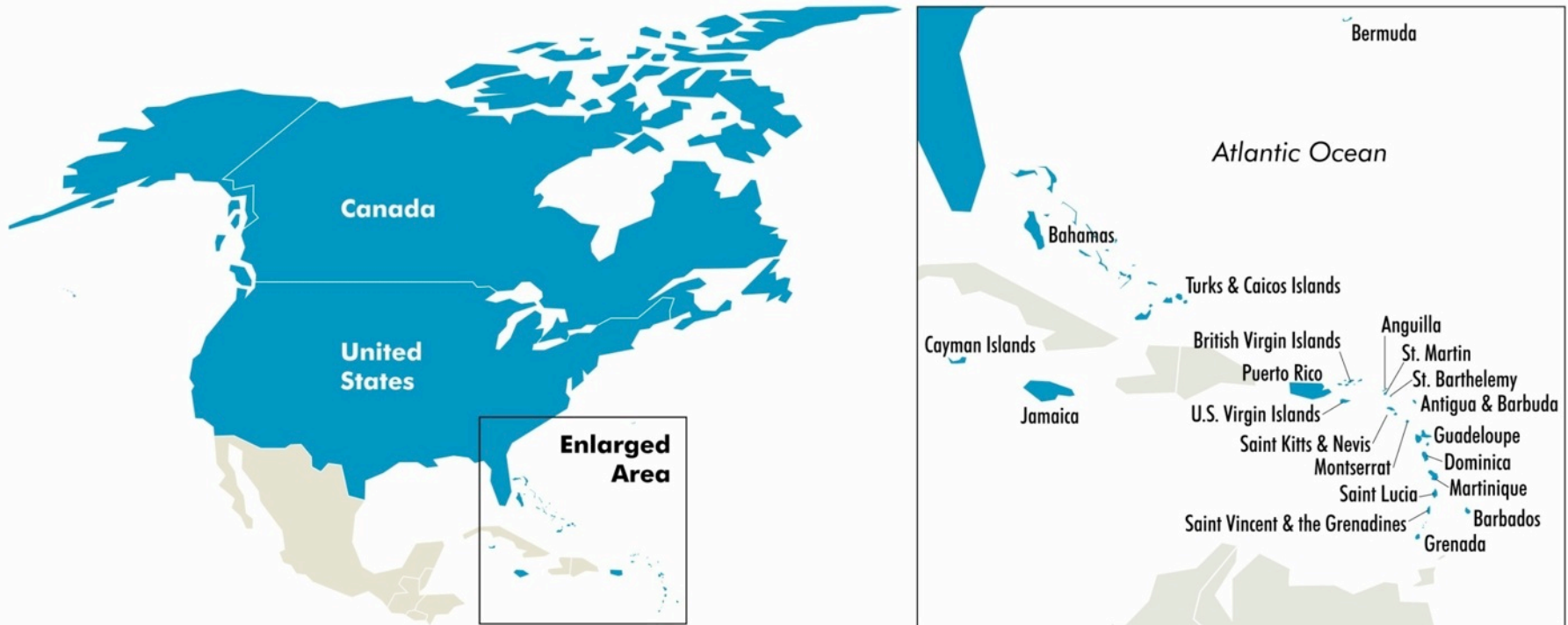


# Regional Internet Registries (RIRs)

- 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
- 5,000+ members
- 60+ 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
  - elected by the ARIN Community







# ARIN Structure

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



# 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

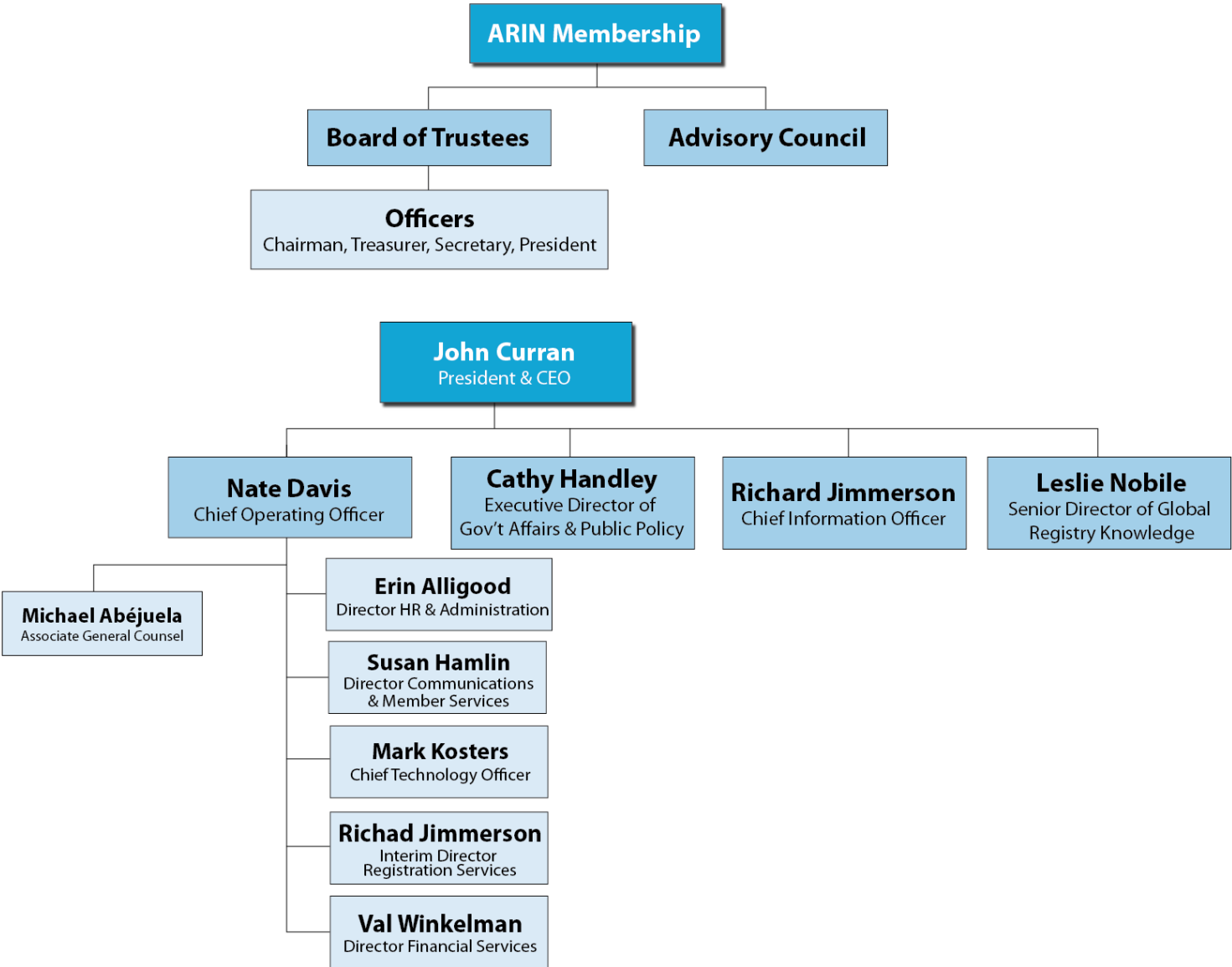
# Number Resource Organization Number Council



Representatives serving from the ARIN region:

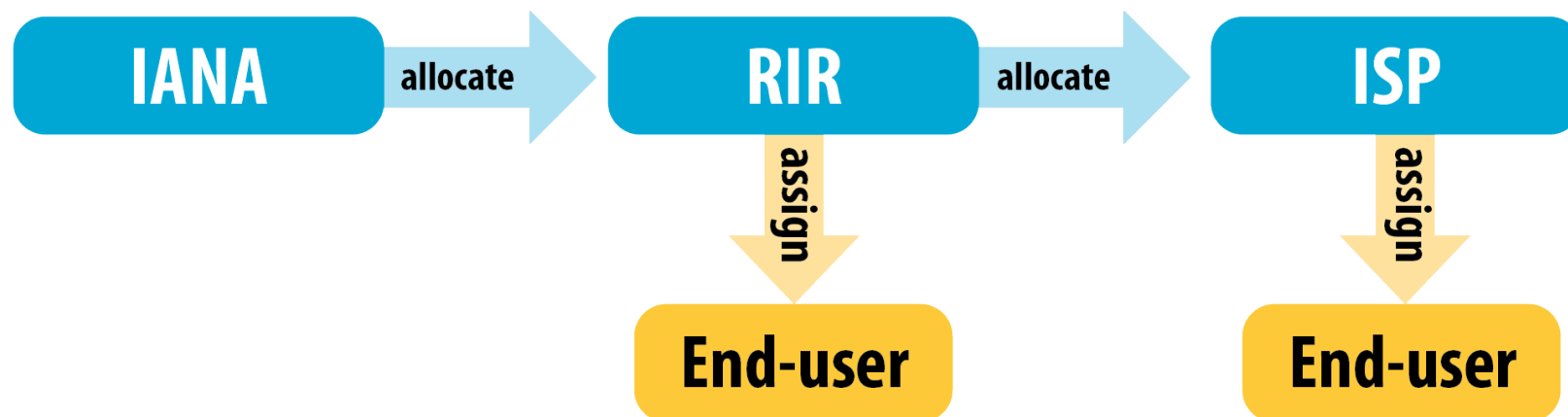
- Ron da Silva
- Louis Lee, Chair
- Jason Schiller

# 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

- **Draft Policy ARIN-2014-1: Out of Region Use**
  - Would clearly permit out of region use of ARIN issued number resources
- **Draft Policy ARIN-2014-6: Remove Operational Reverse DNS Text**
  - Would remove IPv4 and IPv6 reverse DNS text
- **Draft Policy ARIN-2014-14: Removing Needs Test from Small IPv4 Transfers**
  - Would add option of officer attestation instead of needs assessment for 8.3 and 8.4 transfers for a maximum of a /20



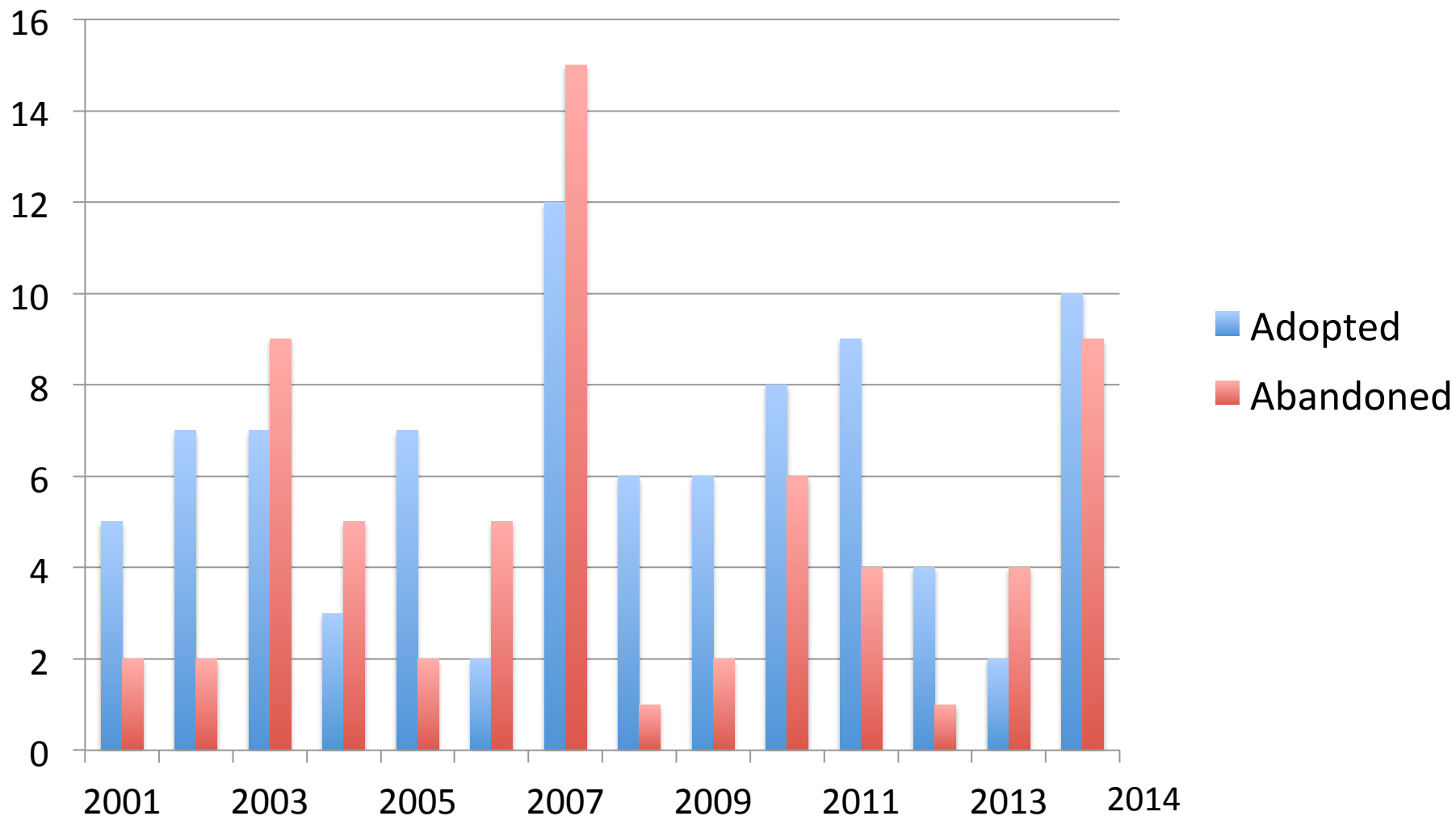
# Policy discussions at this meeting (*cont.*)

- **Recommended Draft Policy ARIN-2014-21: Modification to CI Pool Size per Section 4.4**
  - Would extend the CI pool from a /16 to a /15 equivalent
- **Recommended Draft Policy ARIN-2014-22: Removal of Minimum in Section 4.10**
  - Would eliminate the possible range of minimum /28 to maximum /24 and set the allocation/assignment at /24
- **Draft Policy ARIN-2015-1: Modification to Criteria for IPv6 Initial End-User Assignments**
  - Would add to the end user IPv6 policy: if an organization has a minimum of 13 sites, it would qualify for IPv6 space





# 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

**MONDAY:** Metropolitan Ballroom, 2<sup>nd</sup> Floor

**ARIN Public Policy Meeting** 9:00 AM – 4:30 PM

**ARIN Social 7:00 PM – 11:00 PM – Jillian's, 175 4<sup>th</sup> Street**

- Walking directions available at registration desk

**TUESDAY:** Metropolitan Ballroom, 2<sup>nd</sup> Floor

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

**WEDNESDAY:** Metropolitan Ballroom

**ARIN Members Meeting (open to all),** 9:00 AM – Noon

**Breakfast (M,T,W) and lunch (M,T) – Skyline – 21<sup>st</sup> Floor**

# 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





Apply now for ARIN 36 October 2015 in Montreal

<https://www.arin.net/participate/meetings/fellowship.html>



# ARIN on Social Media



[www.TeamARIN.net](http://www.TeamARIN.net)



[www.facebook.com/TeamARIN](http://www.facebook.com/TeamARIN)



@TeamARIN



#ARIN35



[www.gplus.to/TeamARIN](http://www.gplus.to/TeamARIN)



[www.linkedin.com/company/ARIN](http://www.linkedin.com/company/ARIN)



[www.youtube.com/TeamARIN](http://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!



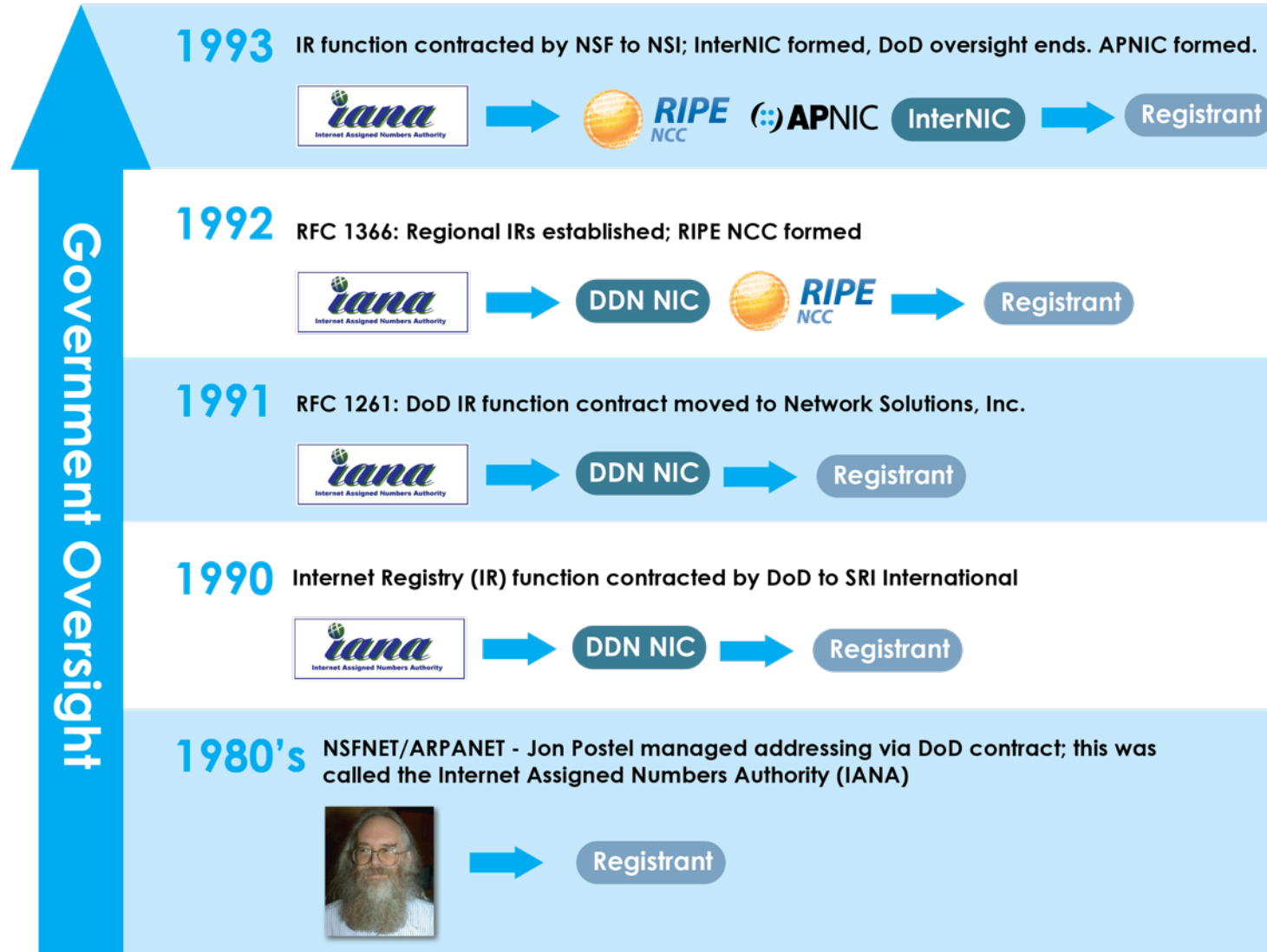


# Questions?



# 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.

