



# Getting to Know



Ray Plzak  
President & CEO

# Overview

- **The Regional Internet Registries**
  - ❖ RIR Evolution
  - ❖ RIR Structure
  - ❖ RIR Services
- **The Internet Number Resource Community**
  - ❖ The Number Resource Organization
  - ❖ ICANN & The Address Support Organization
- **Policy Development**
- **ARIN Organization & Activities**

# The Regional Internet Registries

17 April 2005



Getting to Know ARIN

# In The Beginning



**RFC 790**  
**1981**



**“The assignment of numbers is also handled by Jon. If you are developing a protocol or application that will require the use of a link, socket, port, protocol, or network number please contact Jon to receive a number assignment.”**

# RIR System Evolution

Post RIR

ICANN [1999]



NRO [2003]



AFRINIC [2005]



RIR

LACNIC [2002]



ARIN [1997]



APNIC [1993]



Central Registry  
[1981]

RIPE NCC [1992]



Pre RIR



1981

1986

1991

1996

2001

2006

17 April 2005



Getting to Know ARIN

# The RIRs

## Not for Profit

- Fee for Services
- Open Financial Reporting

## Membership

- Open to All Interested Parties
- Consists of Thousands
  - ❖ ISPs
  - ❖ Other Companies
  - ❖ Stakeholders

## Industry Regulated

- Elected Executive Board
- Member Approved Activities



# RIR Services

## Registry

- IP Address Allocation
- ASN Assignment
- Directory Services
  - ❖ WHOIS
  - ❖ IRR
- DNS (reverse)

## Organizational

- Elections
- Meetings
- Information
  - ❖ Web Site
  - ❖ Newsletter
- Training

## Policy Development Facilitation

- Maintain e-mail discussion lists
- Conduct public policy meetings
- Publish policy documents



# Links

	<a href="http://www.afrinic.net"><u>http://www.afrinic.net</u></a>
	<a href="http://www.apnic.net"><u>http://www.apnic.net</u></a>
	<a href="http://www.arin.net"><u>http://www.arin.net</u></a>
	<a href="http://www.lacnic.net"><u>http://www.lacnic.net</u></a>
	<a href="http://www.ripe.net"><u>http://www.ripe.net</u></a>

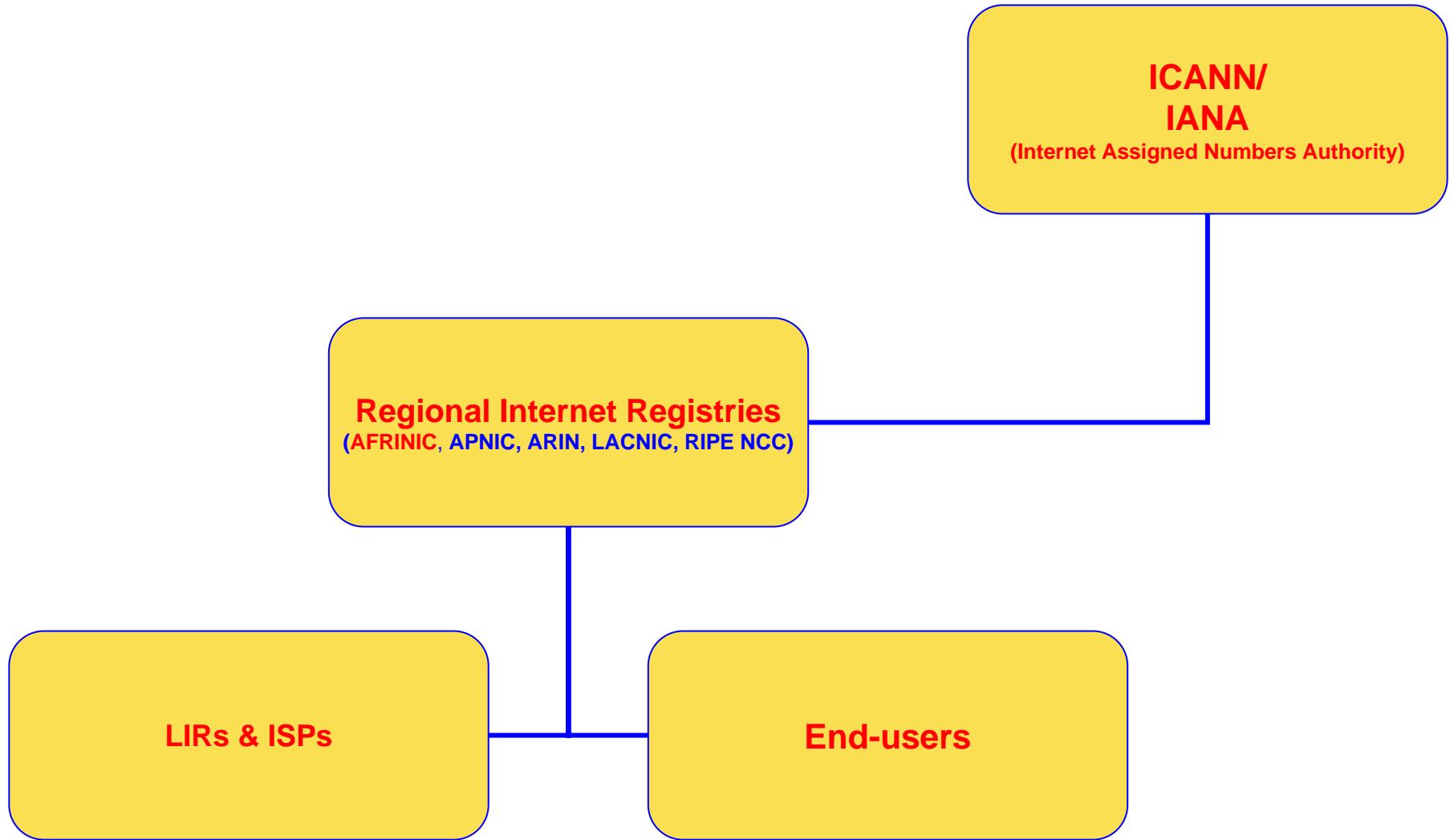
# The Internet Number Resource Community

17 April 2005



Getting to Know ARIN

# Number Resource Provisioning



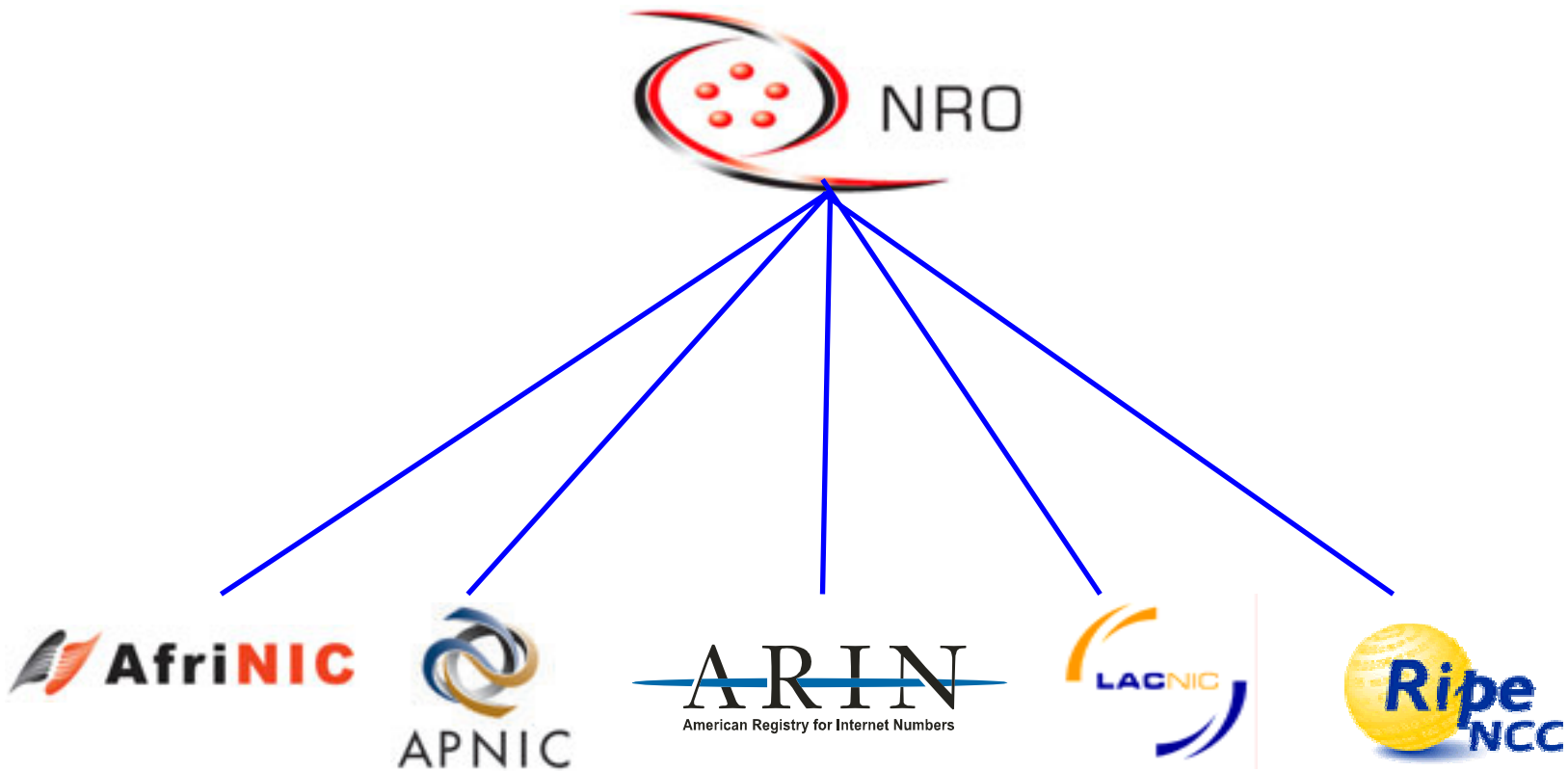
17 April 2005

# Number Resource Organization

24 October 2003  
NRO MoU Signed



17 April 2005



Formed by the Regional Internet Registries to formalize their cooperative efforts, the NRO exists to protect the unallocated Number Resource pool, to promote and protect the bottom up policy development process, and to act as a focal point for Internet community input into the RIR system.

# Structure



**Secretariat**

**Executive Council**

**Numbers Council**

**Communication  
Coordination Group**

**Engineering  
Coordination Group**

**ICANN  
Support**

- ICANN Budget
- ASO Secretariat Staffing
- ASO Address Council
  - ❖ Fund Activities
  - ❖ Fund Travel

**NRO Activities**

**Outreach**

- Meetings and Presentations
  - ❖ Government representatives
  - ❖ Industry groups
- Web Site
- Press Releases

**Engineering Coordination**

- Reverse DNS
- Directory Services
  - ❖ Joint Directory Service
  - ❖ CRISP



# ICANN

Internet Corporation  
for  
Assigned Names and Numbers

## ➤ What Is ICANN?

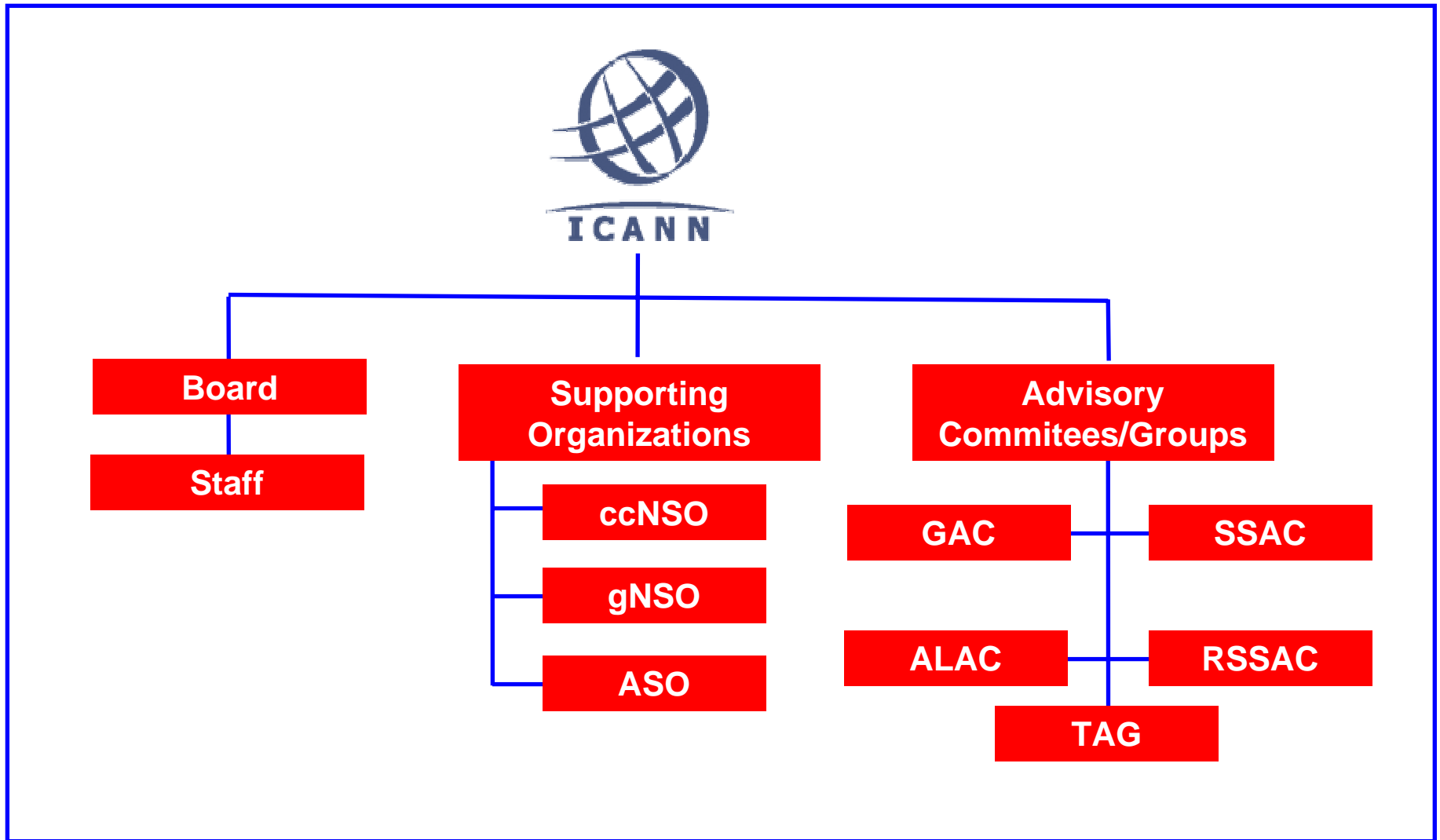
- ❖ Private-sector coordinating body acting in the public interest
- ❖ Global, Non-Profit , Self-Regulatory body

## ➤ What Does It Do?

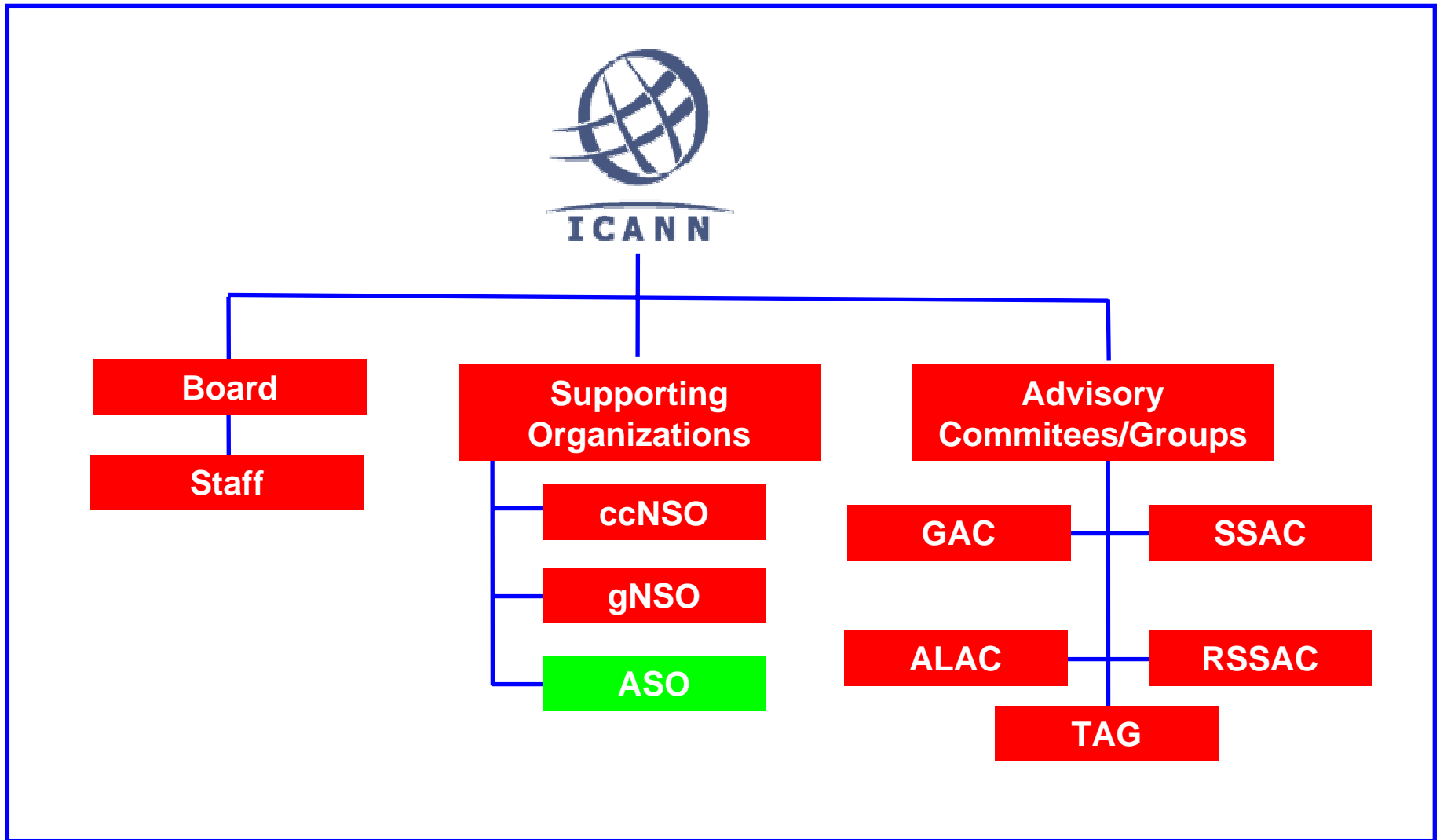
- ❖ Top Level Technical Coordination of the Internet
  - ❖ Names
  - ❖ Numbers
  - ❖ Root Servers



# Structure



# Structure



# ASO AC

Address Supporting Organization  
Address Council

## ➤ What Is the ASO AC?

**Advisory Body for Global Addressing Policy**

## ➤ What Does It Do?

- ❖ Advise ICANN Board
- ❖ Select ICANN Board Directors [2]
- ❖ Select ICANN NOMCOM Member [1]

# The NRO and ICANN



**Secretariat**

**Executive Council**

**Numbers Council**



**CCNSO**

**GNSO**

**ASO**

http://www.nro.net

The screenshot shows a Mozilla browser window titled "The Number Resource Organization - Mozilla". The address bar contains "http://www.nro.net". The website header features the NRO logo on the left and a banner with the text "NUMBER RESOURCE ORGANIZATION" and the IP address "62.109.128". Below the header is a navigation menu with links: HOME, ABOUT THE NRO, PRESENTATIONS, INTERACT, MEETINGS, DOCUMENTS, and LINKS. The main content area is divided into two columns. The left column is titled "welcome" and contains a "news and announcements" section with several entries: [20 July 2004] Afrinic Progress Report, submitted to ICANN; [07 April 2004] Call for Comments on Proposed MoU Between ICANN and the NRO; [01 April 2004] Letter of Intent by ICANN and the NRO; [24 March 2004] NRO Comments Concerning ICANN and the World Summit of the Information Society; and [23 March 2004] Open Letter to the UN Secretary-General. A "MORE NEWS" link is also present. The right column is titled "what is the nro?" and contains a paragraph explaining the NRO's purpose: "Formed by the Regional Internet Registries to formalise their co-operative efforts, the NRO exists to protect the unallocated Number Resource pool, to promote and protect the bottom-up policy development process, and to act as a focal point for Internet community input into the RIR system. [more]". Below this is a section titled "regional internet registries" with a paragraph: "The most prominent activity of the four Regional Internet Registries (RIRs) is the provision of global Internet resources and related services (IPv4, IPv6 and AS Number resources) and the management of reverse domain space." and a link to an article: "For more information about the history of RIRs, please read the article 'Development of the Regional Internet Registry System', as published in the Cisco Internet Protocol Journal, December 2001." At the bottom of the page, there are logos for APNIC, ARIN, LACNIC, and Ripe NCC, and a "CONTACT THE NRO" link.

17 April 2005



Getting to Know ARIN

# Policy Development

17 April 2005

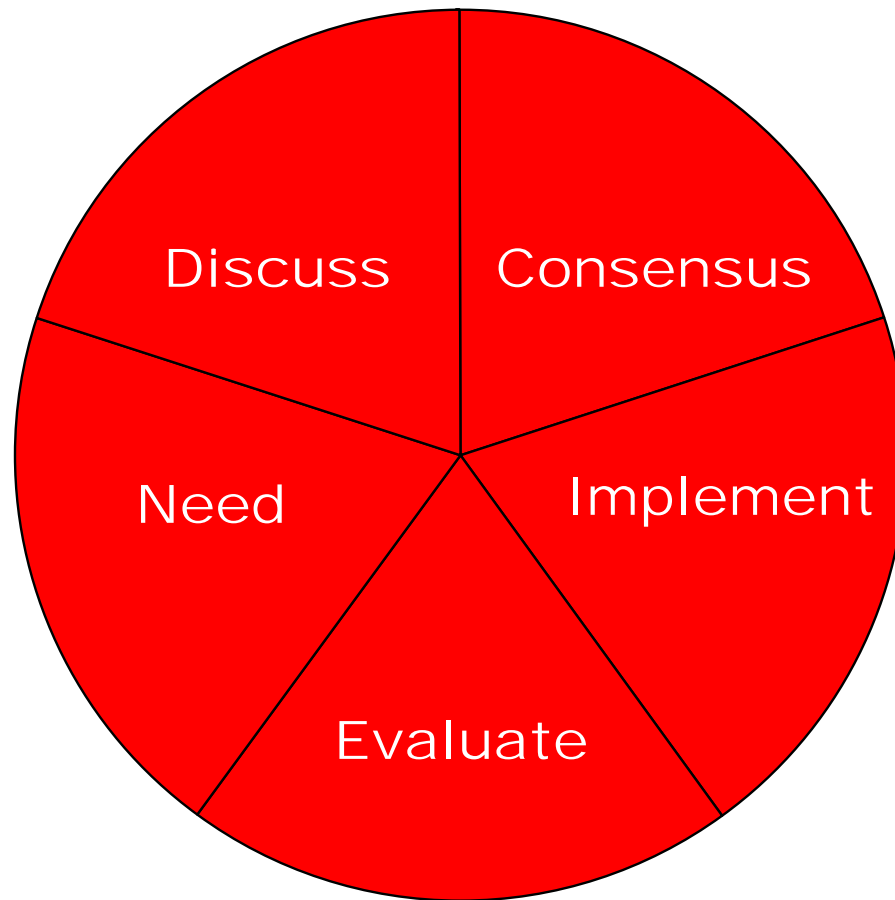


Getting to Know ARIN

# Policy Development Principles

- **Inclusive**
- **Transparent**
- **Documented**
- **Bottom-Up**

# Policy Development Cycle

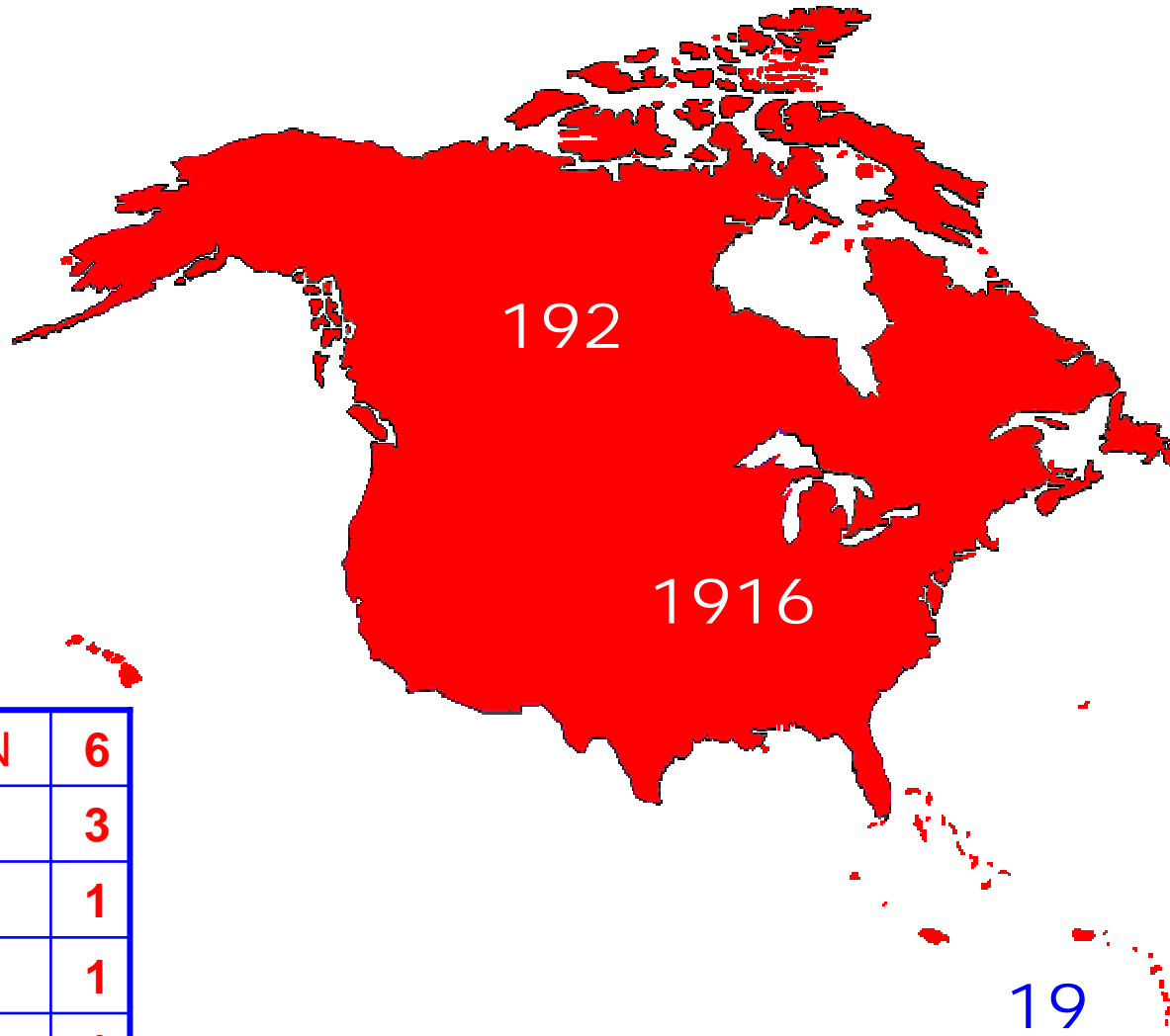






*"Applying the principles of stewardship, ARIN, a nonprofit corporation, allocates Internet Protocol resources; develops consensus-based policies; and facilitates the advancement of the Internet through information and educational outreach."*

# Geographic Region



Outside ARIN	6
Australia	3
Guam	1
Japan	1
Indonesia	1

17 April 2005

# OPEN MEMBERSHIP

## Two Methods:

### ➤ Direct

- ❖ Complete a Membership Application Form
- ❖ Payment Annual Membership Fee

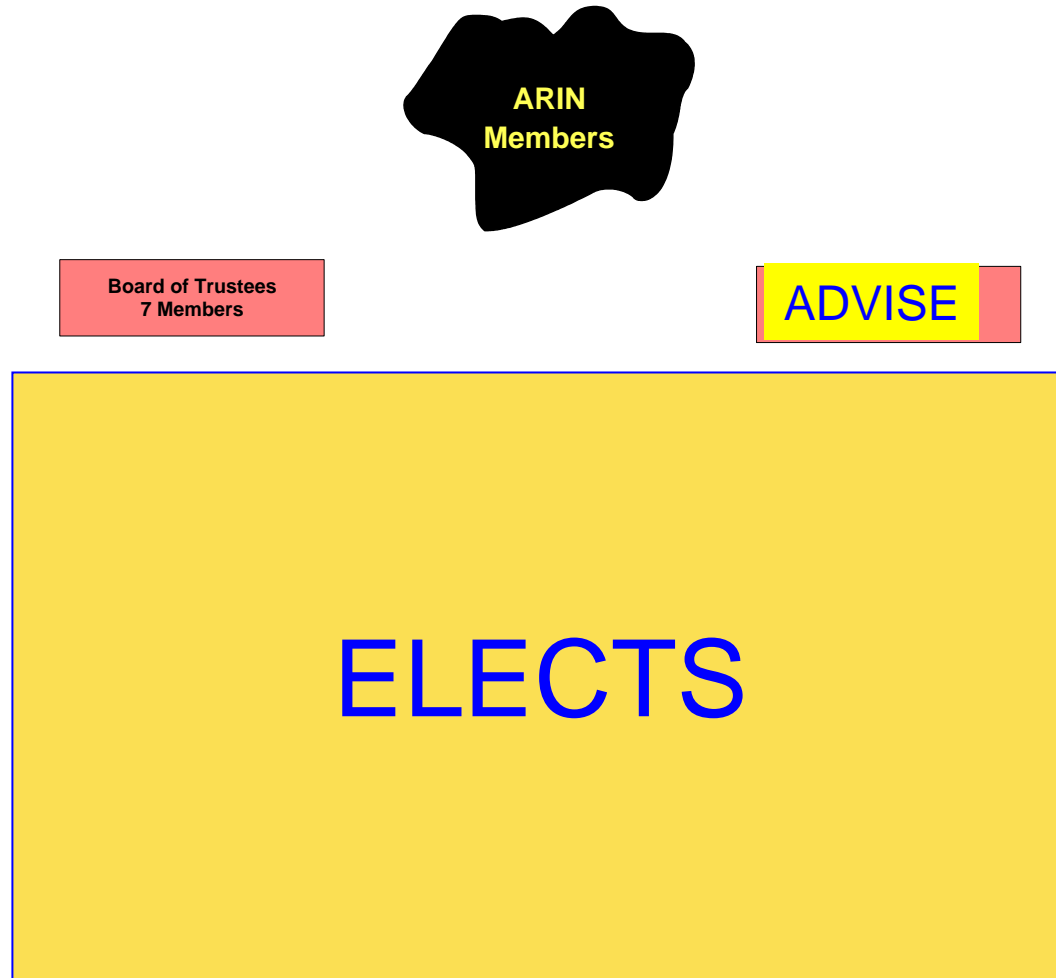
### ➤ Indirect

Receive IP Address Space Directly from ARIN

# Organization



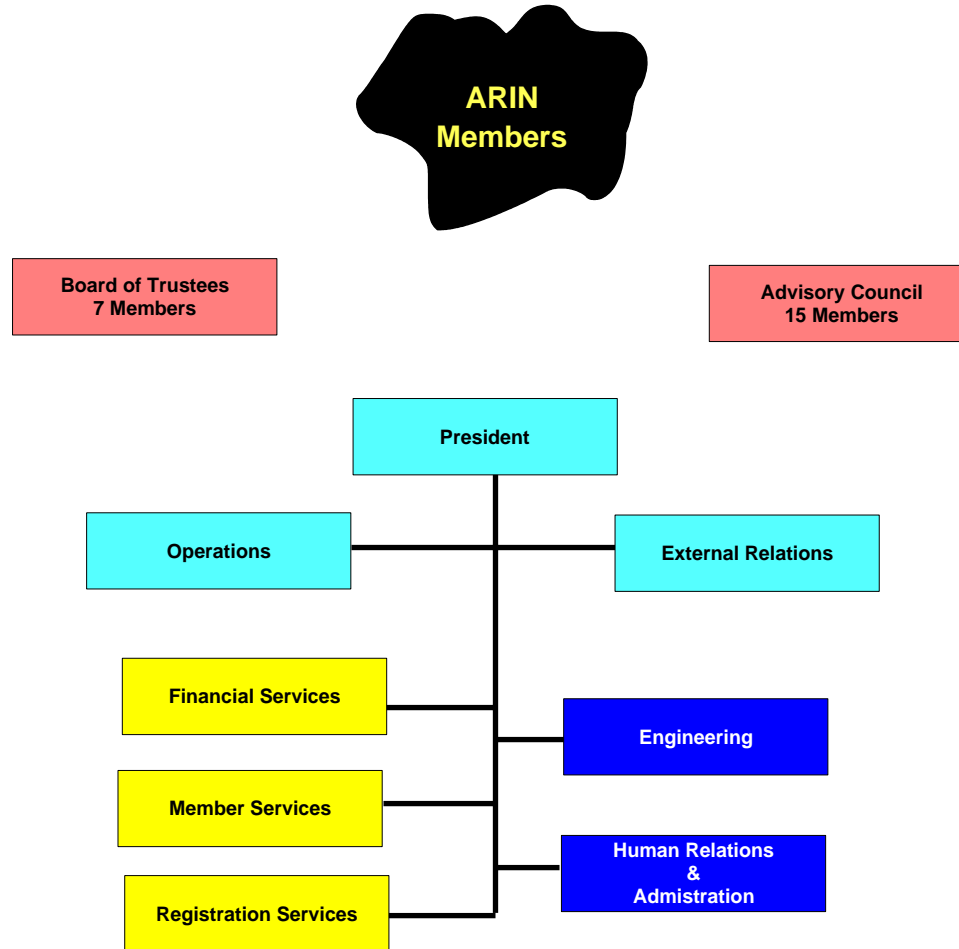
# Organization



# Organization



# Organization



# Board of Trustees

- **Elected by Members**

- **Term**

Three years

Staggered – 2 Trustees

elected each year

- **Responsibilities**

Fiduciary

Liability

Policy Ratification



Chairman

John Curran



Secretary

Scott Bradner



Treasurer

David Conrad



President

Ray Plzak



Trustees

Bill Manning

Paul Vixie

Bill Woodcock



# ARIN Advisory Council

- Elected by Members
- Term
  - ❖ Three years
  - ❖ Staggered – 5 members elected each year
- Responsibilities
  - ❖ Advises ARIN Board
  - ❖ Forwards consensus-based policy proposals to the Board for ratification

# Advisory Council



Ron da Silva, Chairman



Alec Peterson, Vice-Chairman

- Paul Andersen
- Marla Azinger
- Leo Bicknell
- Bill Darte
- Andrew Dul
- Mark Kosters
- Lea Roberts
- Alex Rubenstein
- Robert Seastrom
- John Sweeting
- Stacy Taylor
- Cathy Wittbrodt
- Suzanne Woolf

# NRO Number Council

## ➤ Representatives from the ARIN Region

- ❖ Two elected
- ❖ One appointed by the ARIN Board

## ➤ Term

- ❖ Three years, staggered

## ➤ Responsibilities

- ❖ Advise the NRO Executive Council on ratification of proposed global IP number resource allocation policies
- ❖ Sit as representatives on the ICANN ASO Address Council and fulfills those duties



Sanford George  
Lee Howard  
Louis Lee

# Key ARIN Staff

**Ray Plzak**  
President & CEO

**Executive**

**Nate Davis**  
Operations

**Richard Jimmerson**  
External Relations

**Bob Stratton**  
Financial Services

**Ginny Listman**  
Engineering

**Support**

**Service**

**Susan Hamlin**  
Member Services

**Mary K. Lee**  
Human Resources

**Leslie Nobile**  
Registration Services

# ARIN Services

## Registry

- **IP Address Allocation**
- **ASN Assignment**
- **Directory Services**
  - ❖ **WHOIS**
  - ❖ **IRR**
- **Reverse DNS**

## Organizational

- **Elections**
- **Meetings**
- **Information**
  - ❖ **Web Site**
  - ❖ **Newsletter**
- **Training**

## Policy Development Facilitation

- **Maintain e-mail discussion lists**
- **Conduct public policy meetings**
- **Publish policy documents**

# ARIN Policy Development

## ➤ Inclusive

- ❖ Open Public Policy Meetings [ 2 per Year]
- ❖ Open Public e-mail List [ppml]

## ➤ Transparent

- ❖ Meeting Minutes
  - Public Policy Meeting
  - Board of Trustees
  - ARIN Advisory Council
- ❖ PPML Archives

## ➤ Documented

- ❖ Internet Resource Policy Evaluation Process [IRPEP]
- ❖ Number Resource Policy Manual [NRPM]

## ➤ Bottom-Up

- ❖ Community determines policy

# ARIN Policies

- **Allocation / assignment of address space (IPv4 and IPv6)**
- **Assignment of AS numbers**
- **Transfers**
- **Acceptable Use Policies for:**
  - ❖ **WHOIS**
  - ❖ **Mailing Lists**



# ARIN Policy Development Links

## ➤ Inclusive

- ❖ <http://www.arin.net/membership/meetings/index.html>
- ❖ [http://www.arin.net/mailling\\_lists/index.html](http://www.arin.net/mailling_lists/index.html)

## ➤ Transparent

### ❖ Meeting Minutes

- [http://www.arin.net/policy/pol\\_min.html](http://www.arin.net/policy/pol_min.html)
- <http://www.arin.net/library/minutes/bot/index.html>
- <http://www.arin.net/library/minutes/ac/index.html>

### ❖ Mail Lists

[http://www.arin.net/mailling\\_lists/ppml/index.html](http://www.arin.net/mailling_lists/ppml/index.html)

## ➤ Documented

- ❖ <http://www.arin.net/policy/ipep.html>
- ❖ <http://www.arin.net/policy/index.html>

## ➤ Bottom-Up

# Interacting with ARIN

- **Registration Services**
  - ❖ **template requests**
  - ❖ **help desk**
- **Biannual meetings**
- **Mailing lists**
  - ❖ **[ppml@arin.net](mailto:ppml@arin.net) – Public Policy discussions**
  - ❖ **[arin-announce@arin.net](mailto:arin-announce@arin.net) – Read-only list for announcements from ARIN**
- **Information dissemination**
  - ❖ **Website**
  - ❖ **Newsletter, Annual Reports**
- **Nominations and elections**

<http://www.arin.net>

➤ **Registration Services**

- ❖ Templates
- ❖ Billing

➤ **Policy**

- ❖ Current policies
- ❖ Policy proposals

➤ **Meetings**

- ❖ Past minutes
- ❖ Future meetings

➤ **WHOIS**

➤ **Training**

- ❖ WHOIS CBT
- ❖ FAQs
- ❖ Process Flowcharts

➤ **Membership**

➤ **Statistics**



# Contact Information

## ➤ Registration Services Help Desk

- ❖ (703) 227-0660

- ❖ Monday – Friday, 7AM – 7PM US Eastern time

## ➤ Billing Help Desk

- ❖ (703) 227-9886

- ❖ Monday - Friday, 9AM-5PM US Eastern Time

## ➤ Hostmaster E-mail

- ❖ [hostmaster@arin.net](mailto:hostmaster@arin.net)

- ❖ Ticketing system for request/inquiry tracking

<http://www.arin.net>

# About the Public Policy & Members Meetings

17 April 2005



Getting to Know ARIN



## Joint Meeting Between ARIN and the North American IPv6 Task Force (NAv6TF)

Includes:

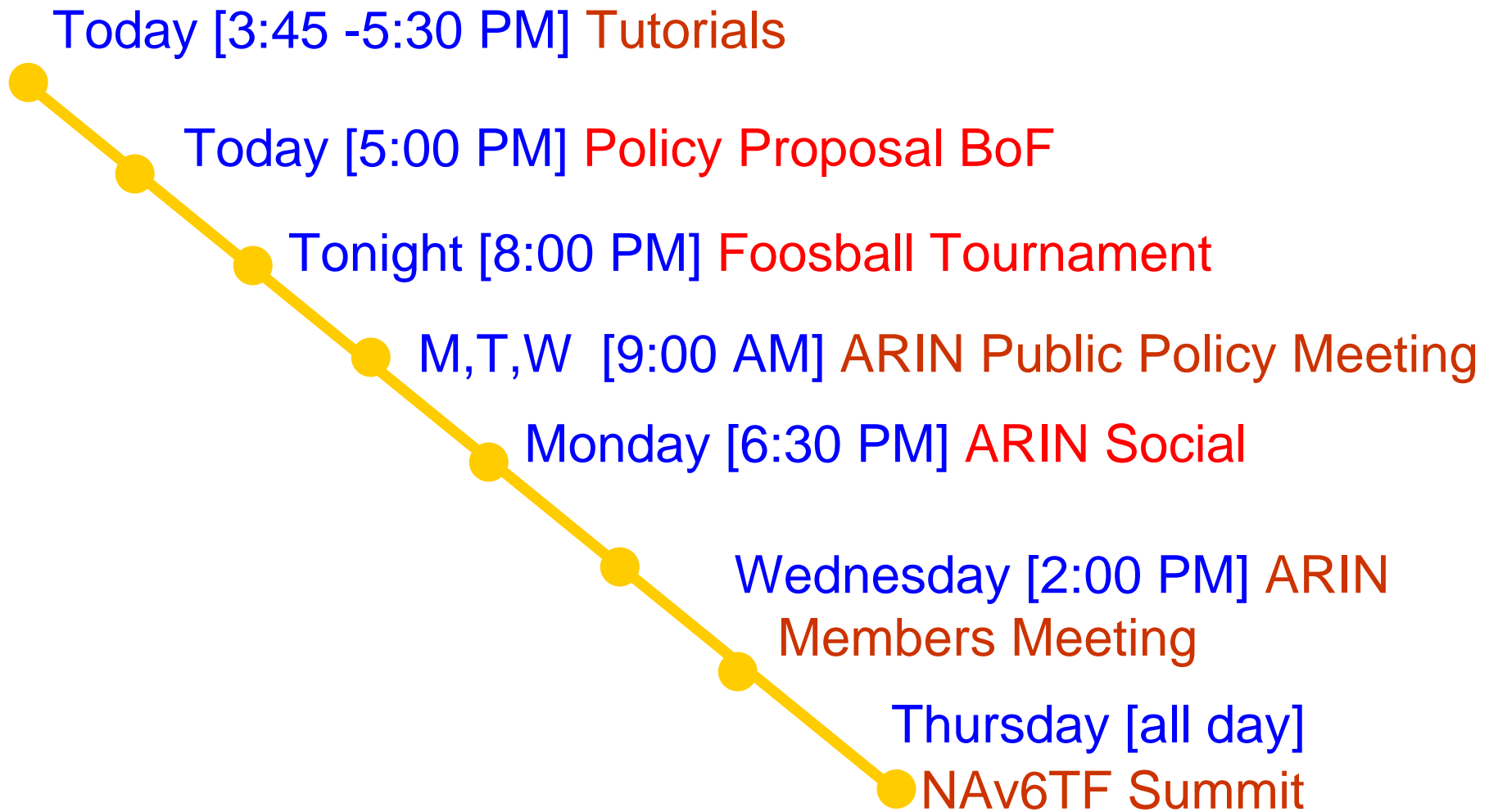
- NAv6TF and ARIN Tutorials on Sunday
- Integrated agenda throughout the week with ARIN Public Policy and NAv6TF items
- Everyone is invited to the 6<sup>th</sup> Annual ARIN Foosball Tournament on Sunday evening, and Social Event on Monday evening
- ARIN and NAv6TF Members Meetings on Wednesday Afternoon
- ARIN Members Meeting now open to everyone

17 April 2005

# Get The Most From This Meeting

- Participate
- Meet your peers and ARIN staff
- Visit the RSD help desk
- Complete the meeting survey

# Participation This Week





Thank You

17 April 2005



Getting to Know ARIN