



# RIPE

## Réseaux IP Européens

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RIPE Chairman

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# RIPE

- **History**
- **Terms of Reference**
- **Organisation**
- **Meetings**
- **Working Groups**
- **Policy process**

# RIPE History

- **Started in May 1989**
- **First Meeting:**
  - 14 participants
  - half day
- **Protocol Wars:**
  - OSI is good
    - Invented by the phone companies
  - TCP/IP is bad
    - Not invented by the phone companies

# RIPE 1 Meeting

22 May, 1989

## Participants:

Piet Beertema	EUnet/CWI - Netherlands
Rob Blokzijl	NIKHEF/HEPnet – Netherlands
Antonio Blasco Bonito	CNUCE-CNR - Italy
Ives Devillers	INRIA - France
Francis Dupont	INRIA - France
Anders Hillbo	NORDUnet/KTH – Sweden
Daniel Karrenberg	EUnet/CWI - Netherlands
Thomas Lenggenhager	SWITCH - Switzerland
Olivier Martin	CERN - Switzerland
Peter Merdian	BelW"u/Stuttgart - Germany
Arnold Nipper	Uni Karlsruhe - Germany
Federico Ruggieri	INFN/Bari - Italy
Marten Terpstra	NIKHEF – Netherlands
Ruediger Volk	Uni Dortmund/Eunet-D - Germany

# RIPE Terms of Reference

- **Operational Co-ordination of IP Networks**
- **No Standards Development**
- **No Names Assignment**
- **No Network Operation**

# RIPE Terms of Reference

Recognising that IP networks are growing beyond the LAN's in Europe, and are extending over national and international WAN's in Europe, the RIPE co-ordinating body has been created.

RIPE stands for the "Réseaux IP Européens".

The objective of RIPE is to ensure the necessary administrative and technical co-ordination to allow the operation and expansion of a pan-European IP network.

- RIPE acts as a forum for the exchange of technical information and the creation of expertise on IP networking.
- The area of relevance for RIPE is Europe.
- All parties operating wide area IP networks are encouraged to participate.
- RIPE promotes and co-ordinates interconnection of IP networks within Europe and to other continents.
- RIPE establishes agreement on common network management practices and the operational management of the interconnected networks.
- RIPE serves as a focal point for other common activities of the participants related to IP networking.
- All documents produced by RIPE will be publicly available.
- RIPE is not a network service provider. IP networks collaborating in RIPE remain under the executive authority of their respective organisations.

Amsterdam

29 November 1989



# RIPE Terms of Reference (1)

- **RIPE acts as a forum for the exchange of technical information and the creation of expertise on IP networking**
- **The area of relevance for RIPE is Europe**
- **All parties operating wide area IP networks are encouraged to participate**
- **RIPE establishes agreements on common network management practices and the operational management of the interconnected networks**



# RIPE Terms of Reference (2)

- **RIPE serves as a focal point for other common activities of the participants related to IP networking**
- **All documents produced by RIPE will be publicly available**
- **RIPE is not a network service provider. IP networks collaborating in RIPE remain under the executive authority of their respective organisations**



# RIPE Organisation

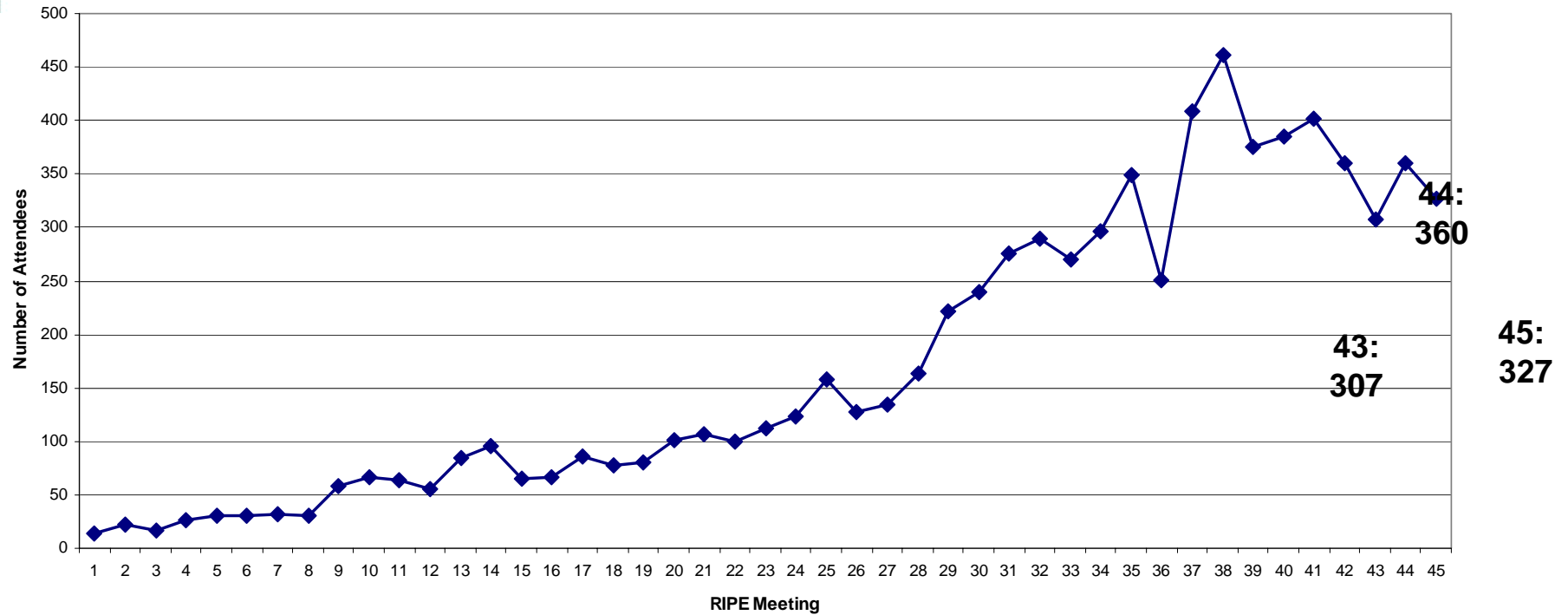
- **Not a Legal Entity**
- **No formal membership**
- **No votes – consensus is the word**
- **Chairman:**
  - organise the meetings
  - keep an eye on the work between meetings
  - external liaison
- **Real work is done in the Working Groups - WG**
- **Sometimes Task Forces - TF**
- **Sometimes Birds of a Feather meetings - BOF**

# RIPE Meetings

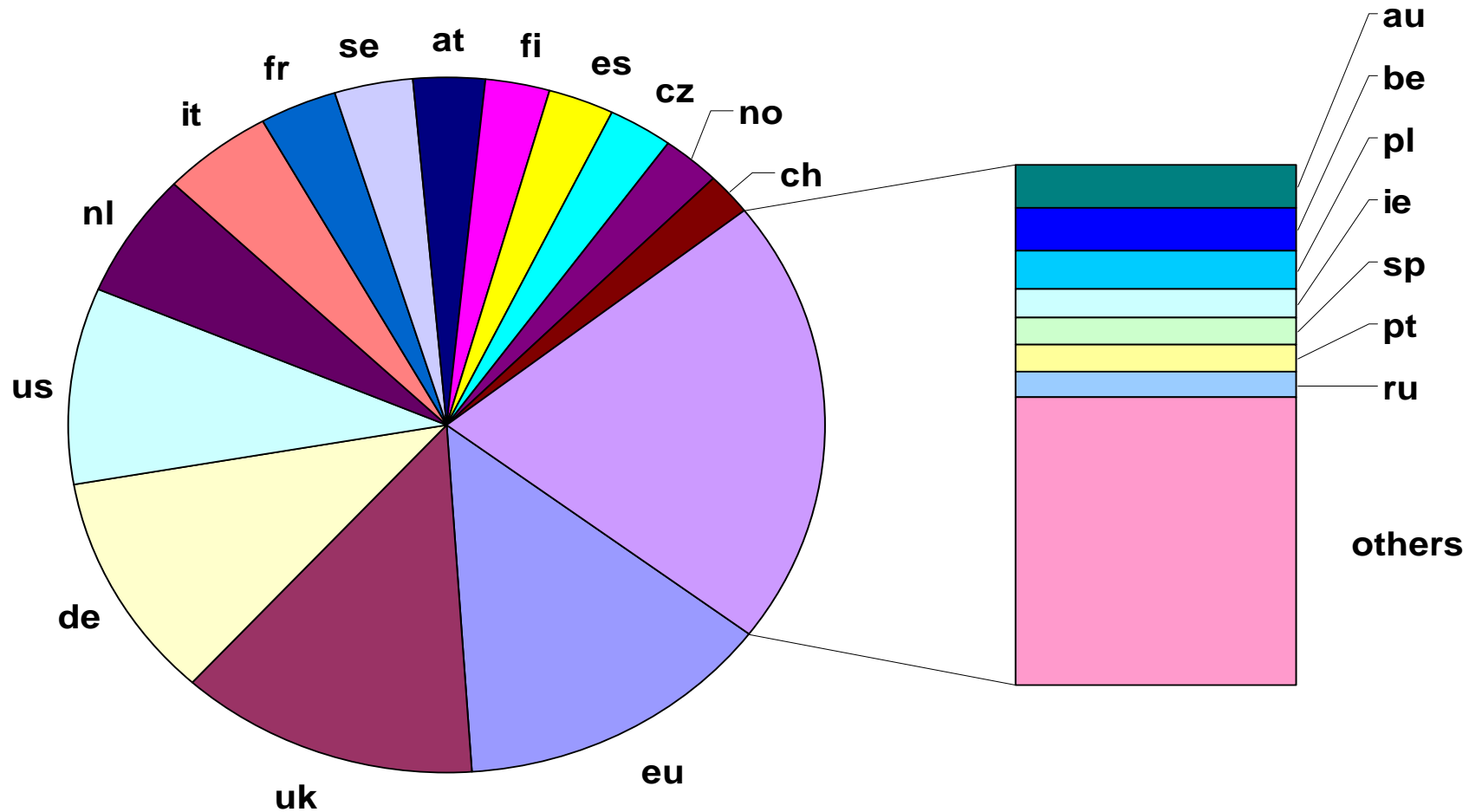
- **3 times a year**
  - 2 times next year as a trial
- **5 days**
- **WG + TF + BOF meetings**
- **Plenary Session**
- **Related Meetings:**
  - RIPE workshops
  - RIPE tutorials
  - RIPE NCC training
- **OPEN - OPEN - OPEN - OPEN**



# RIPE Meeting Attendees

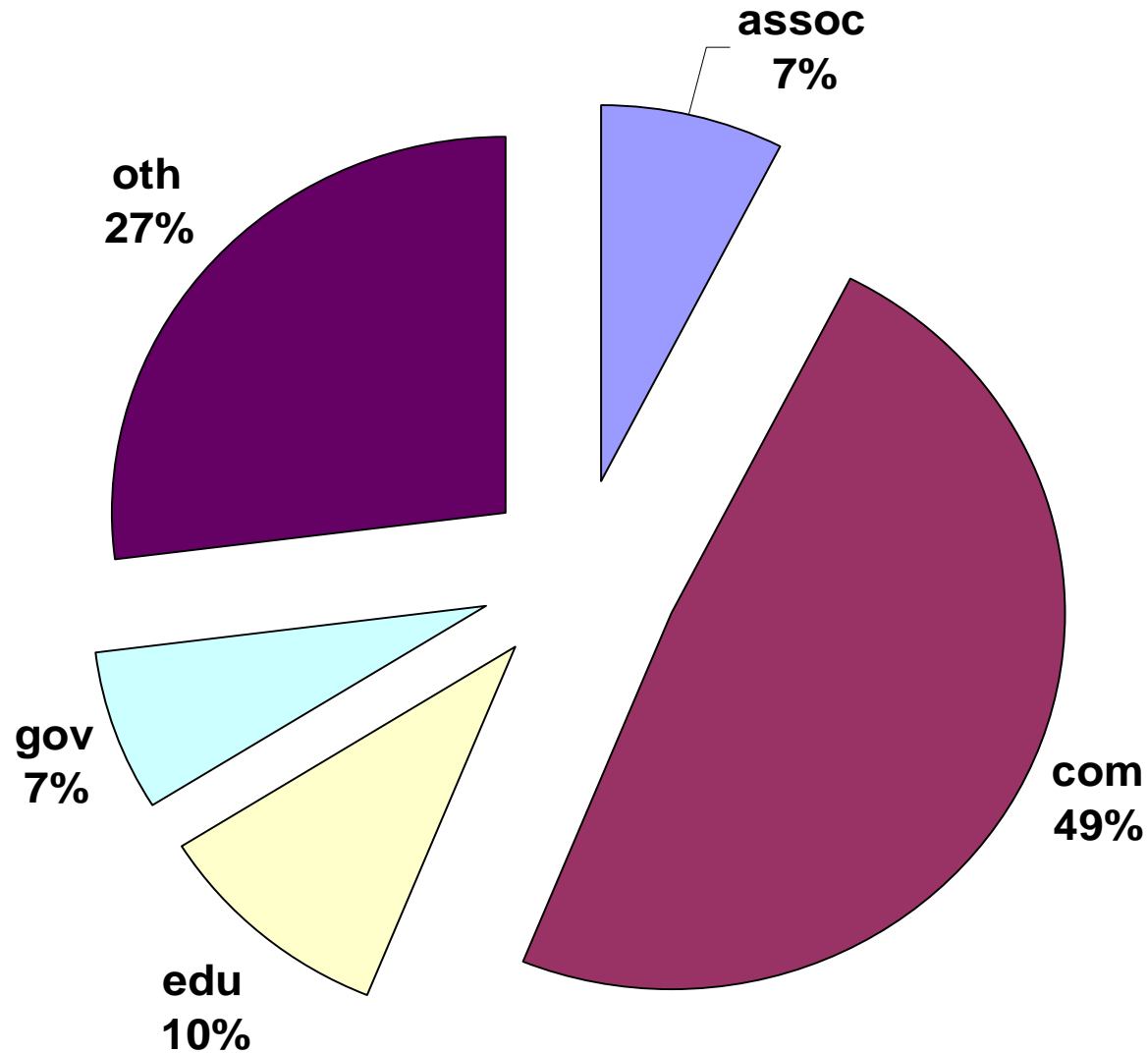


# RIPE Meeting Attendance per Country 43-45



# RIPE Meeting Attendance per Organisational Category

## 43 - 45



# RIPE Working Groups (1)

- **Address Policy Working Group:**
  - open forum where RIPE address policy is made that affects address and ASN allocations.
- **Anti-Spam Working Group:**
  - fighting the problem of spam mail on the Internet
- **Database Working Group:**
  - RIPE network management database
- **DNS Working Group:**
  - Domain Name System technical questions and issues

# RIPE Working Groups (2)

- **European Internet Exchange Working Group:**
  - European Internet Exchanges technical issues
- **IPv6 Working Group:**
  - IPv6 operational issues
- **RIPE NCC Services Working Group:**
  - discussion of existing and new RIPE NCC services
- **Routing Working Group:**
  - architecture and operations of Internet routing
- **Technical Security Working Group:**
  - technical aspects of Internet security

# RIPE Working Groups (3)

- **Test-Traffic Working Group:**
  - Measurement of Internet performance
- **European Operators Forum:**
  - European technical network operation related issues and problems
- **Limerick Working Group:**
  - produce limericks of relevance to the Internet
  - <limerick-wg@ripe.net>



# RIPE Working Groups (4)

- **How to join:**
  - subscribe to mailing lists
  - participate in RIPE meetings
- **OPEN - OPEN - OPEN - OPEN**
- **Visit the Web site:**
  - documents
  - meeting minutes
  - mail archives

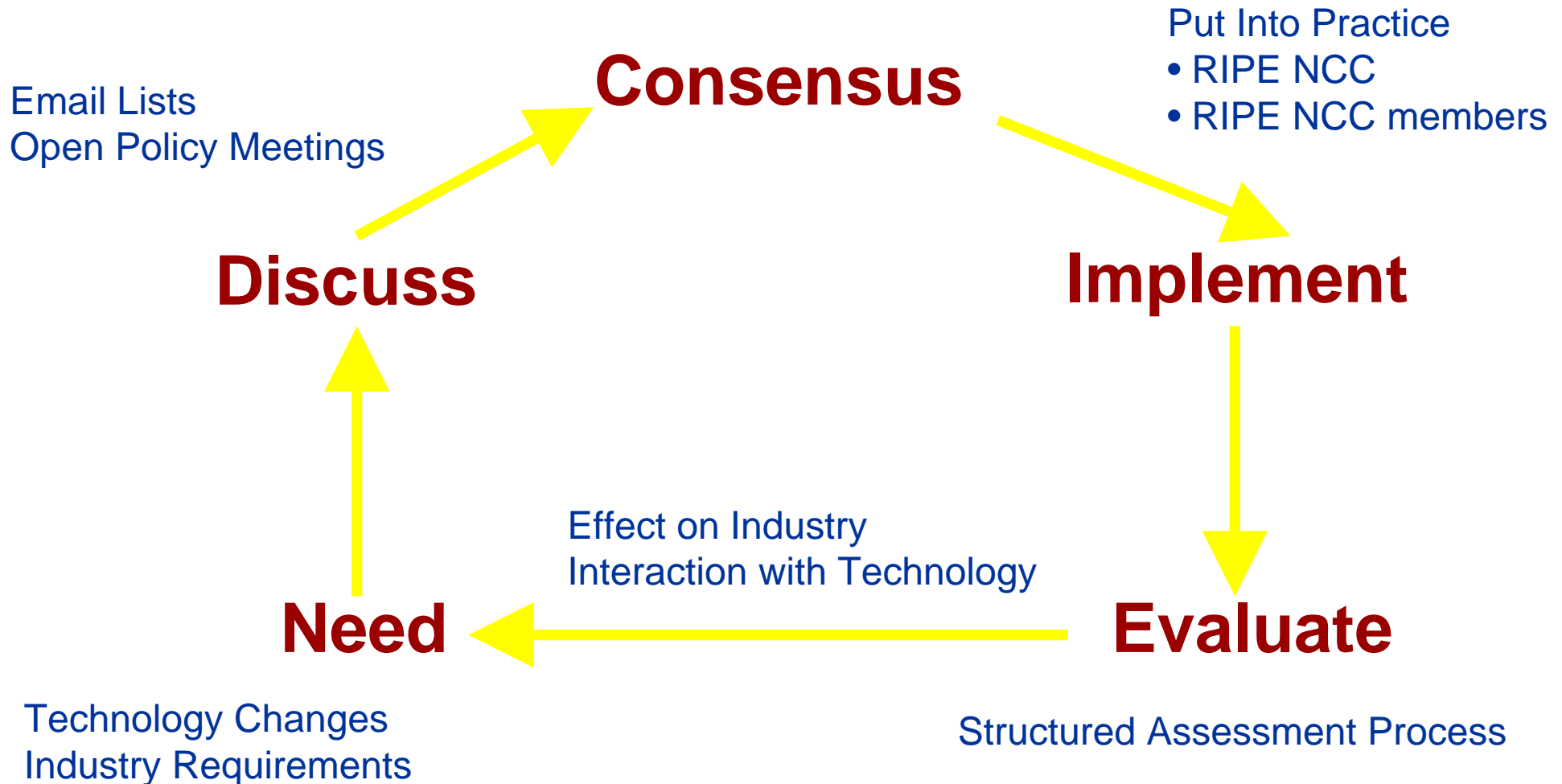
***<http://www.ripe.net>***

# Policy Development Principles

- **Open**
  - Anyone Can Participate
    - This includes Governments
  - Policy Fora
  - Mail Lists
- **Transparent**
  - Mailing List Archives
  - Minutes
    - Policy Fora
    - RIR Boards
- **Developed Bottom-Up**
  - Internet Community
  - Technology Changes
  - IETF
- **Documented**
  - Formal Policy Documents
  - Implementation Procedures



# Policy Development Process



# Address Management Policy

## Conservation

- Efficient Use of Resources
- Allocation Based on Need

## Aggregation

- Limit Routing Table Growth
- Support Provider-Based Routing Policies

## Registration

- Ensure Uniqueness
- Trouble Shooting

# Questions



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