



# RIPE

## Réseaux IP Européens

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# RIPE

- **History**
- **Terms of Reference**
- **About RIPE**
- **RIPE Working Groups**
- **RIPE Meetings**
- **Policy Development Process**
- **More Information**



# History of RIPE

- **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 Terms of Reference

## **ripe-1: <http://www.ripe.net/ripe/docs/ripe-001.html>**

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**



# What Does RIPE Do?

- ✓ **Operational Coordination of IP Networks**
- ✗ **No Standards Development**
- ✗ **No Names Assignment**
- ✗ **No Network Operation**



# About RIPE

- **Not a legal entity**
- **No formal membership**
- **No votes: consensus is the word**
  
- **Chairman:**
  - Organises the RIPE Meetings
  - Keeps an eye on the work between RIPE 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

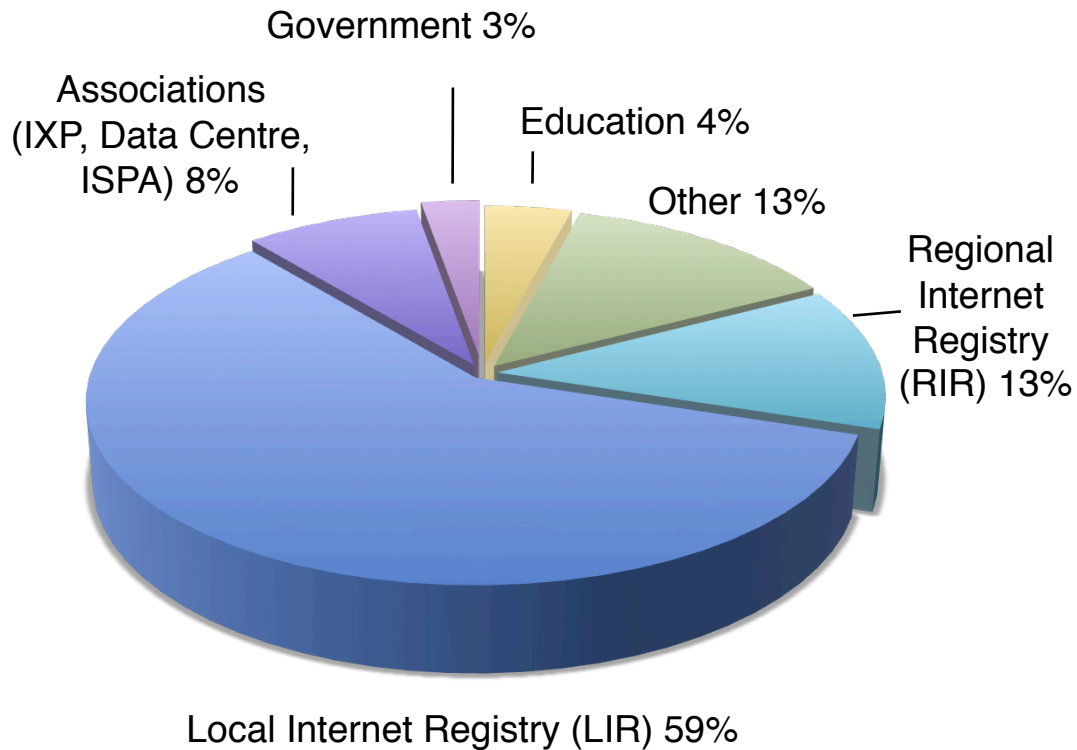
- **Twice a year**
- **Five days long**
- **WG, TF and BOF sessions**
- **Plenary sessions**
- **Other sessions:**
  - Workshops
  - Tutorials
  - RIPE NCC Training

✓ **OPEN - OPEN - OPEN - OPEN**

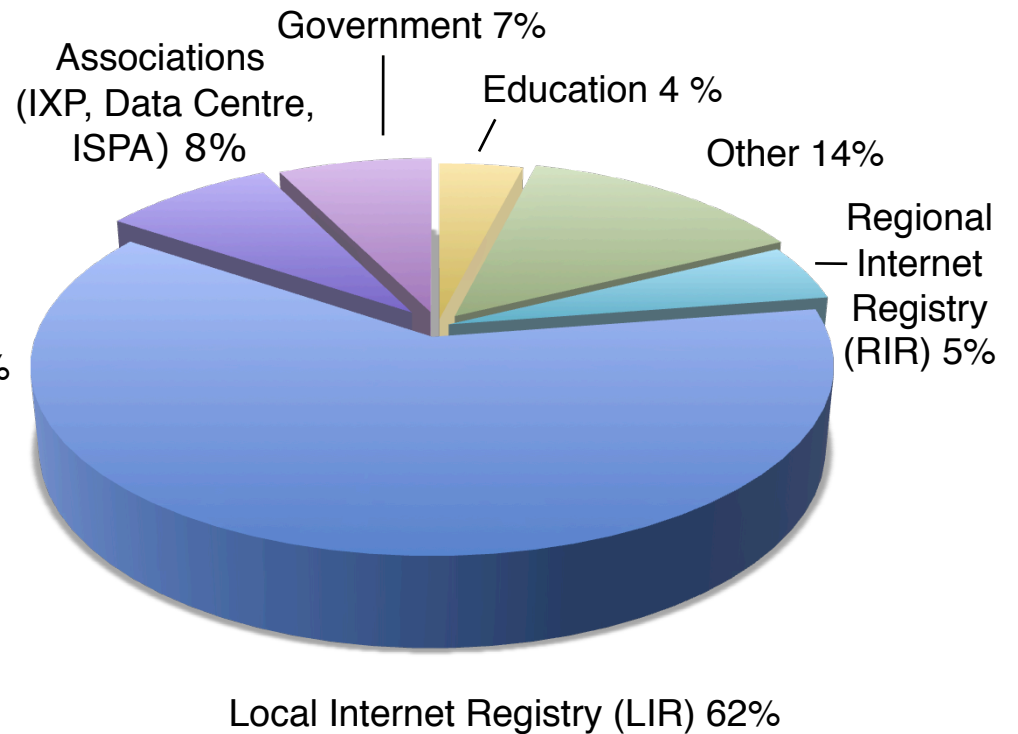


# RIPE Meeting Attendance per Organisational Category

## RIPE 56 Berlin, Germany



## RIPE 57 Dubai, UAE







# RIPE Working Groups (1)

- **Address Policy Working Group:**

Develops policies relating to the management and registration of Internet addresses and routing identifiers (IPv4, IPv6 and Autonomous System (AS) Numbers).

- **Anti-Abuse Working Group:**

Fighting the problem of network abuse.

- **Cooperation Working Group:**

Focusing on cooperation between the private and public sectors on Internet matters.

- **Database Working Group:**

Discussion about the RIPE Database.

- **DNS Working Group:**

Discussion on current DNS related issues in technology and operations.



# RIPE Working Groups (2)

- **ENUM Working Group:**

The ENUM Working Group discusses developments relating to Internet resource mapping using E.164 telephone numbers as identifiers, commonly known as ENUM.

- **European Internet Exchange (EIX) Working Group:**

European Internet Exchanges technical issues.

- **IPv6 Working Group:**

Following the progress of specification and implementation of IPv6.

- **RIPE NCC Services Working Group:**

Discussion about new and existing RIPE NCC services and evaluating the RIPE NCC's yearly Activity Plan.



# RIPE Working Groups (3)

- **Routing Working Group:**

Discussion and information exchange about Routing Registries.

- **Test-Traffic Working Group:**

Following the progress of the RIPE NCC Test Traffic Measurement (TTM)

Service and discussion of data and methods of collection.

## How to take part:

- Subscribe to mailing lists
- Participate in RIPE Meetings

✓ **OPEN - OPEN - OPEN - OPEN**



# Policy Development Principles

- **Open**

- Anyone can participate:
  - Including Governments
- Policy fora
- Mailing lists

- **Developed Bottom-Up**

- Internet community
- Technology changes
- Internet Engineering Task Force (IETF)

- **Transparent**

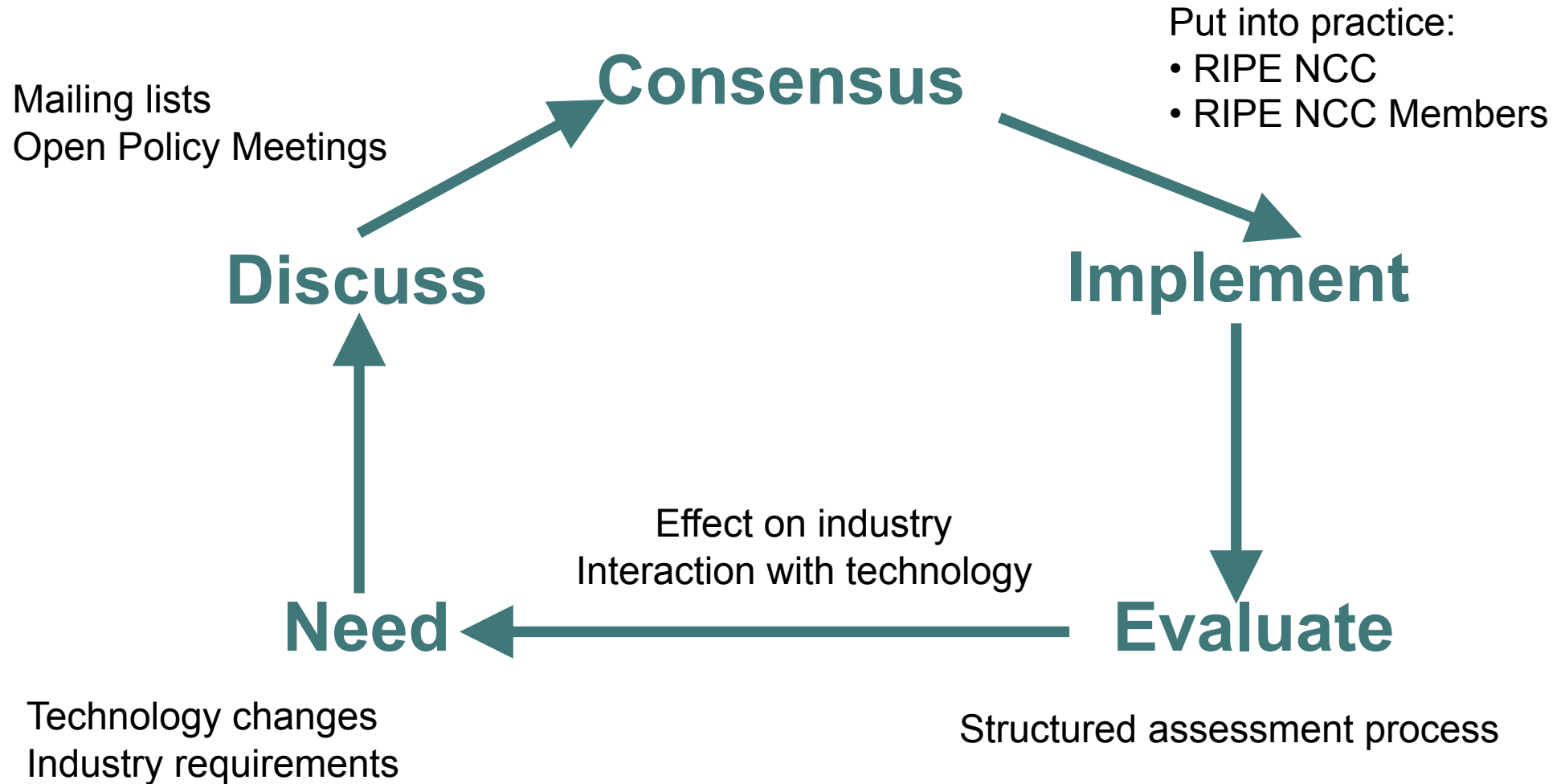
- Mailing list archives
- Minutes:
  - Policy fora
  - RIR Executive Boards

- **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
- Troubleshooting



# More Information

- **RIPE Document Store:**  
<http://www.ripe.net/ripe/docs/index.html>
- **RIPE Meetings (including minutes and webcasts):**  
<http://www.ripe.net/ripe/meetings/index.html>
- **RIPE Mailing Lists/Mailing List archives:**  
<http://www.ripe.net/ripe/maillists/index.html>
- **RIPE Working Groups:**  
<http://www.ripe.net/ripe/wg/index.html>
- **RIPE Policy Development:**  
<http://www.ripe.net/ripe/policies/index.html>

# Questions?

