

RIPE

# Newcomers' Introduction Réseaux IP Européens

---

Rob Blokzijl  
RIPE Chairman

[K13@NIKHEF.nl](mailto:K13@NIKHEF.nl)



# 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](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** (BoF) meetings



# RIPE Meetings

---

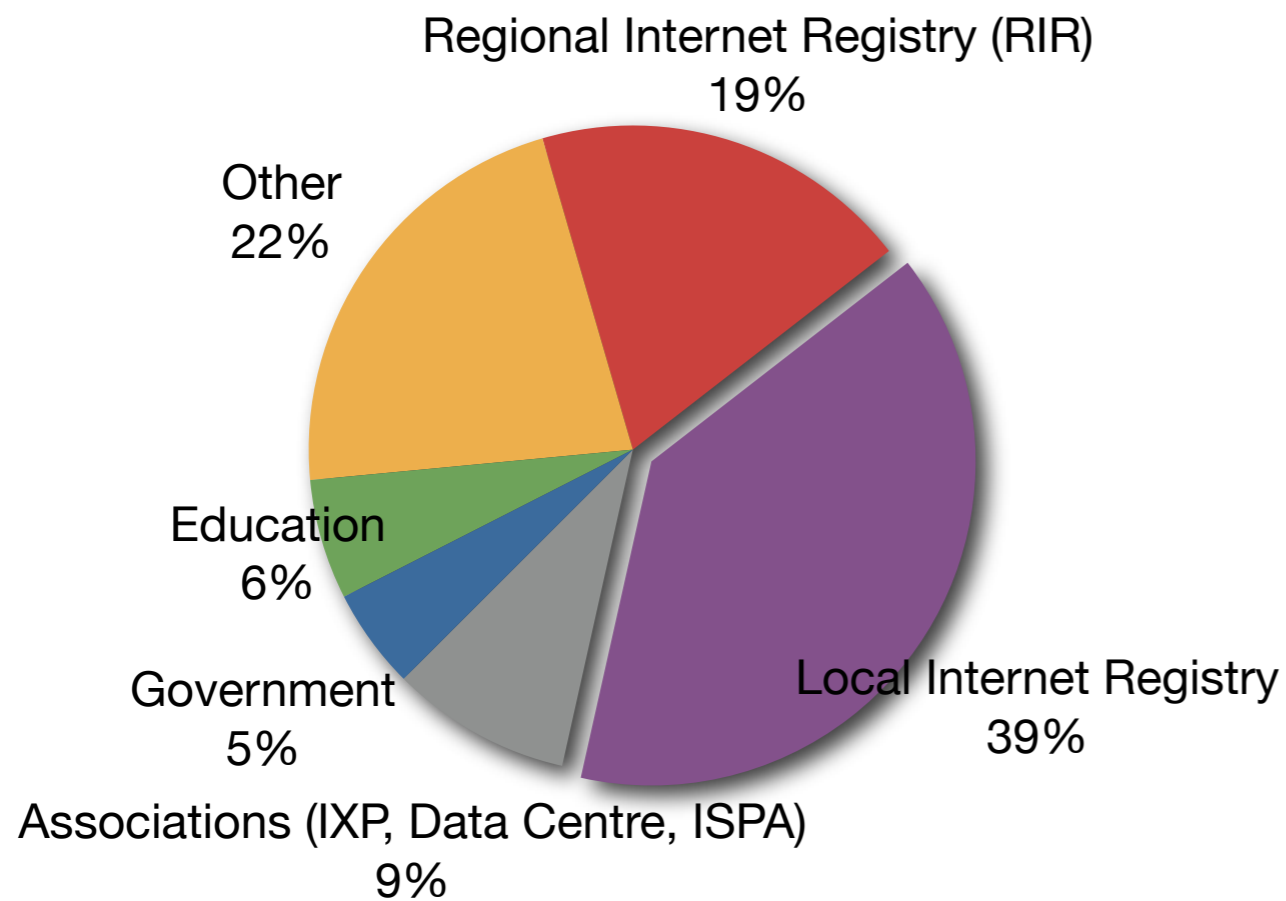
- Twice a year
- Five days long
- WG, TF and BoF sessions
- Plenary sessions
- Other sessions:
  - Workshops
  - Tutorials
  - RIPE NCC Training Courses

✓ OPEN - OPEN - OPEN - OPEN

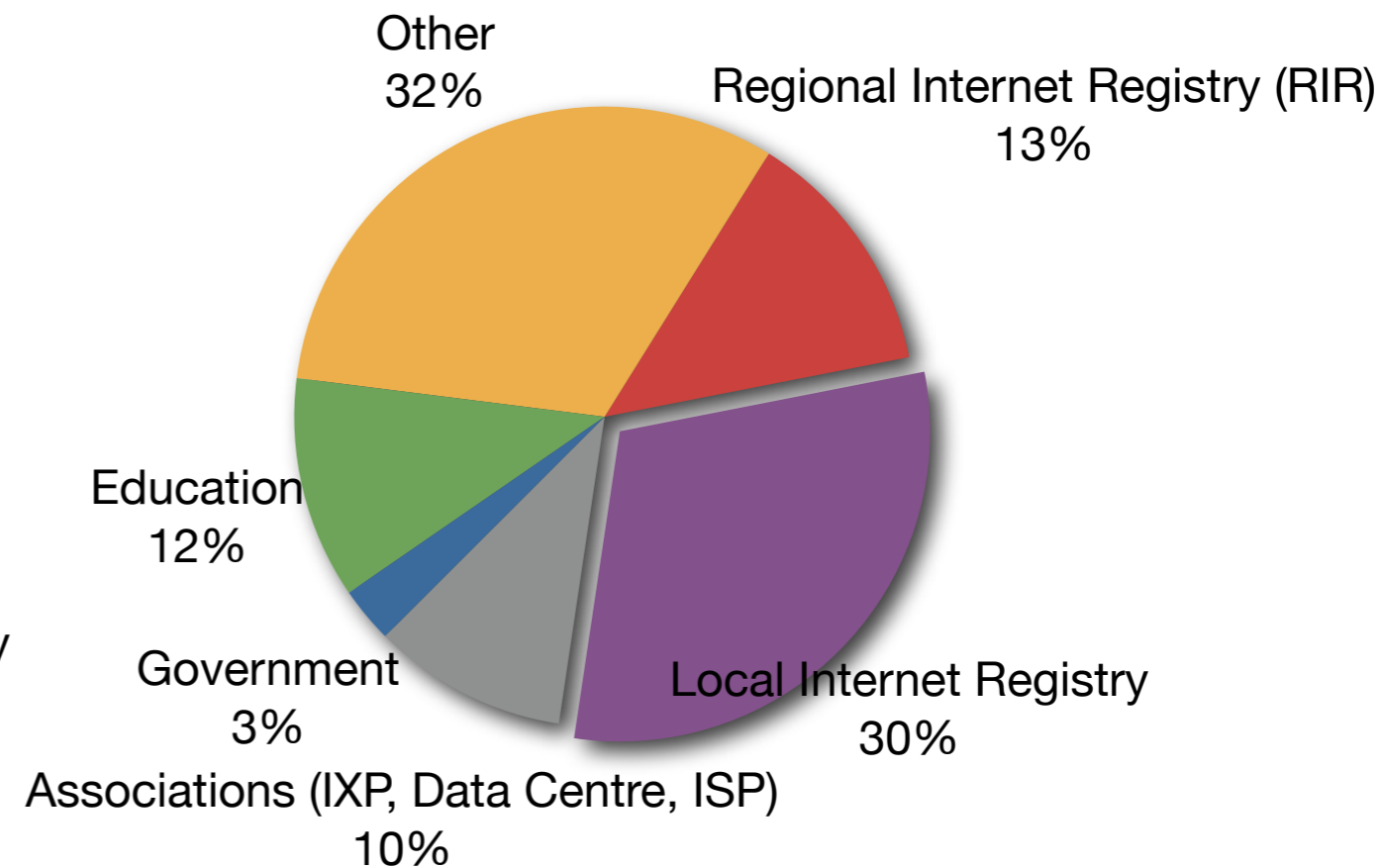


# RIPE Meeting Attendance per Organisational Category

## RIPE 60, Prague CZ



## RIPE 61, Rome IT





# 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.

- **Measurement, Analysis and Tools Working Group:**

The MAT Working Group provides a forum in which the RIPE NCC and the community can collaborate in the areas of data, tools and analysis relating to the Internet and its infrastructure, with a loose focus on monitoring, diagnosis, analysis and forecasting.

- **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

## Transparent

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

## Developed Bottom-Up

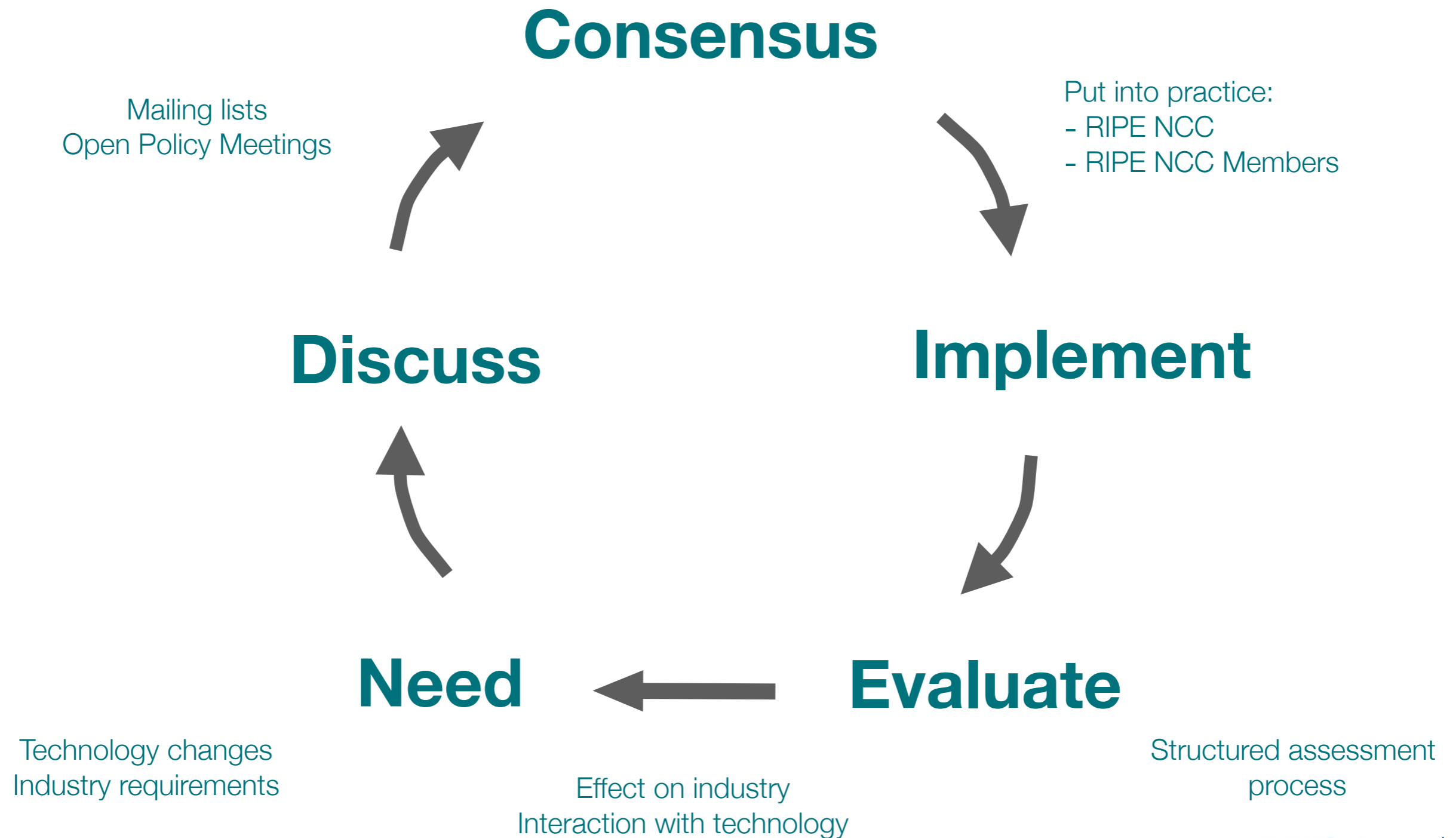
- Internet community
- Technology changes
- Internet Engineering Task Force (IETF)

## 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
- 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?

