RIPE

Réseaux IP Européens

Rob Blokzijl

RIPE Chairman

K13@NIKHEF.nl

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 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**
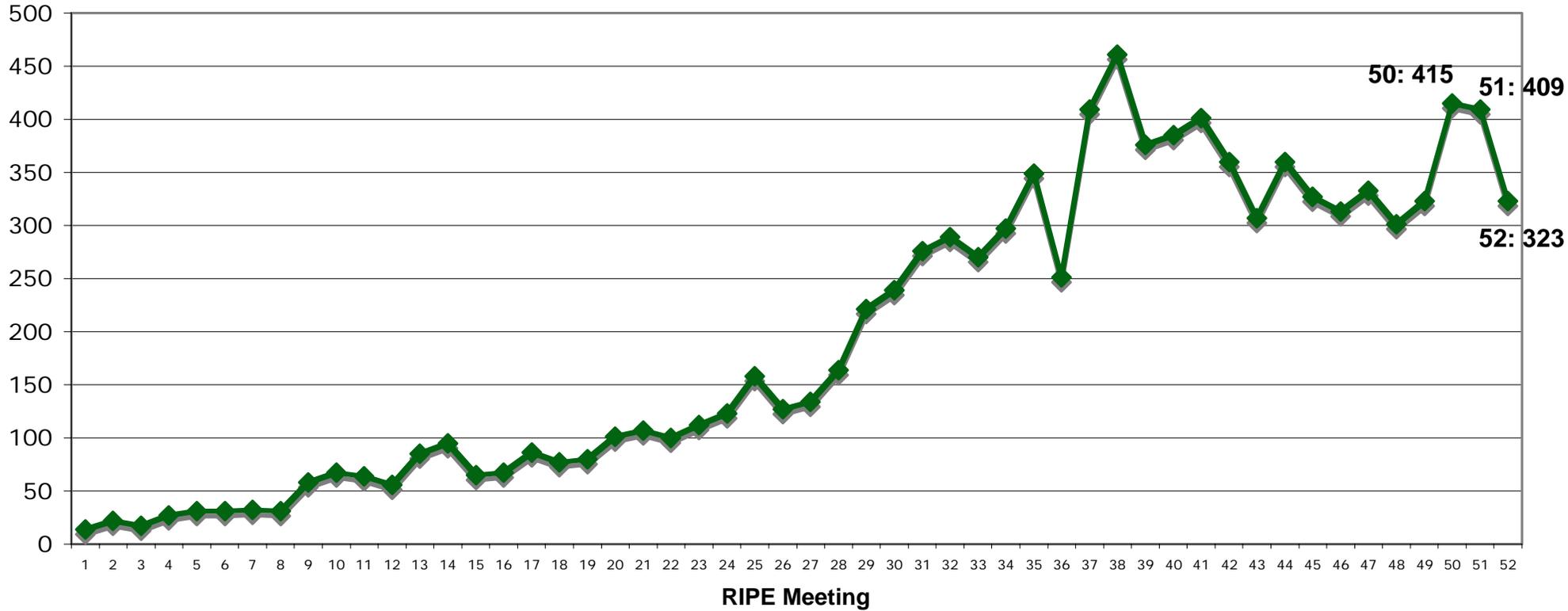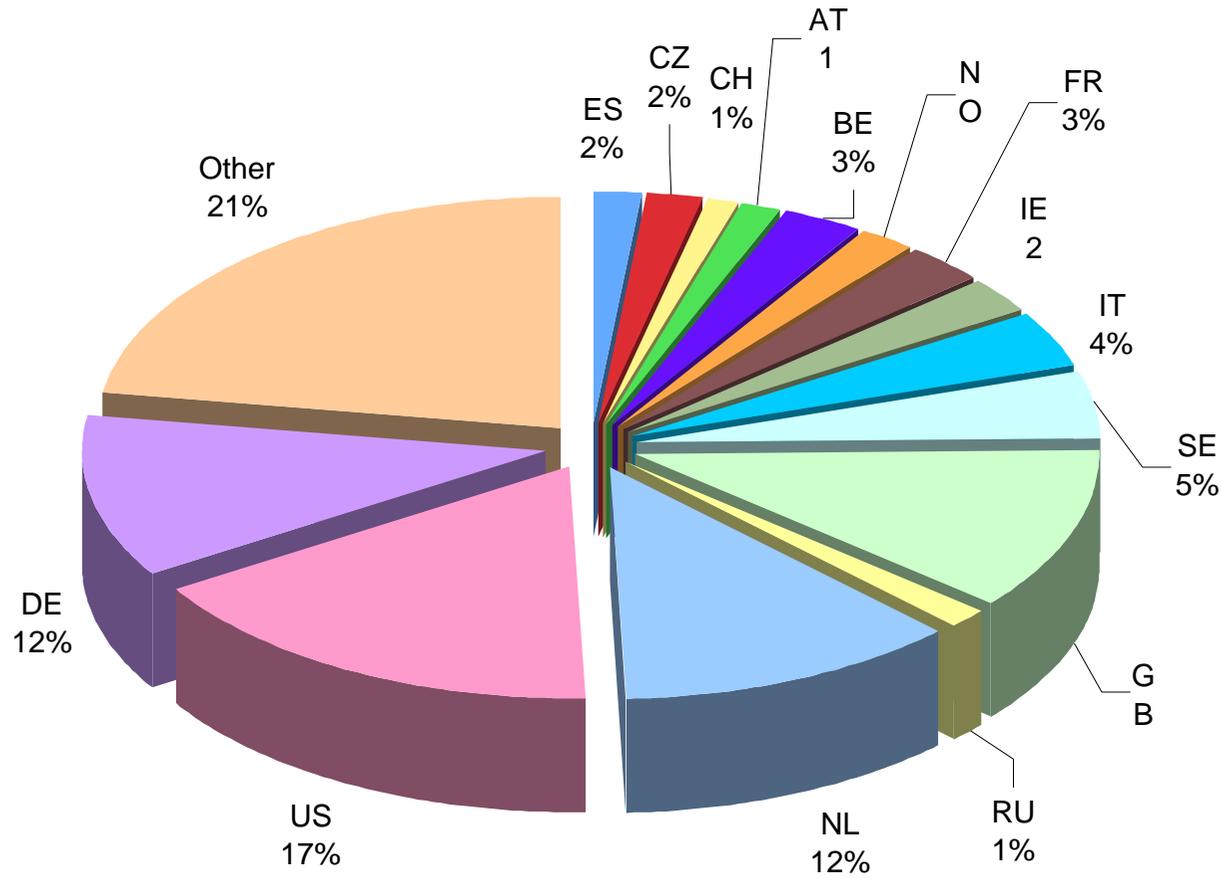- **Sometimes Birds of a Feather meetings - BOF**

RIPE Meetings

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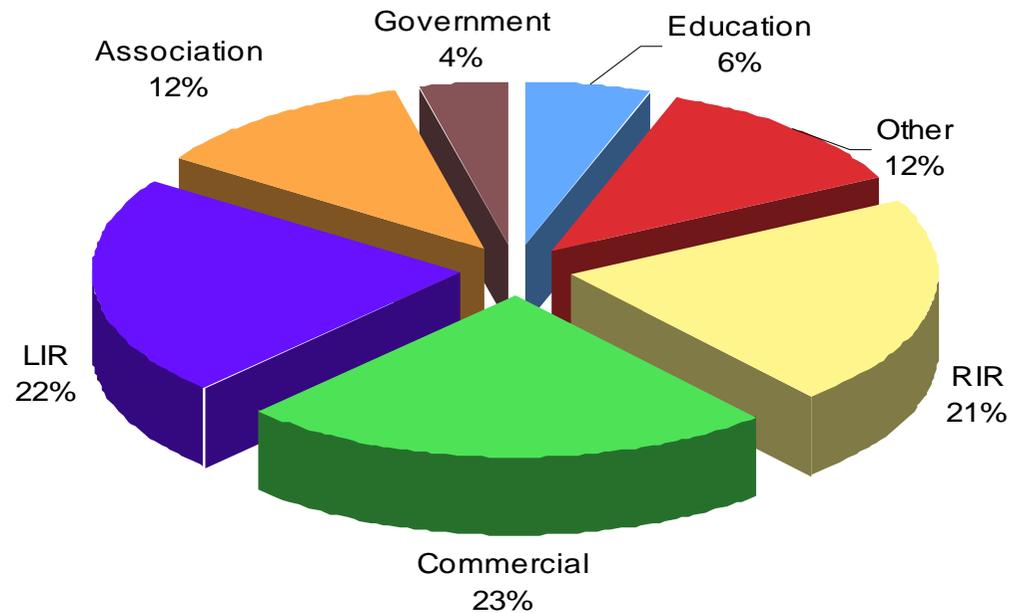
- **OPEN - OPEN - OPEN - OPEN**

RIPE Meeting Attendees

RIPE Meeting Attendance per Country 51-52

Other 21%
ES 2%
CZ 2%
CH 1%
AT 1
BE 3%
NO
FR 3%
IE 2
IT 4%
SE 5%
GB
RU 1%
NL 12%
US 17%
DE 12%

RIPE Meeting Attendance per Organisational Category 51 - 52

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

- **Test-Traffic Working Group:**

  – Measurement of Internet performance

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

RIPE Working Groups (3)

- **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

RIPE

Consensus

Put Into Practice
• RIPE NCC
• RIPE NCC members

Email Lists
Open Policy Meetings

Discuss

Implement

Effect on Industry
Interaction with Technology

Need

Evaluate
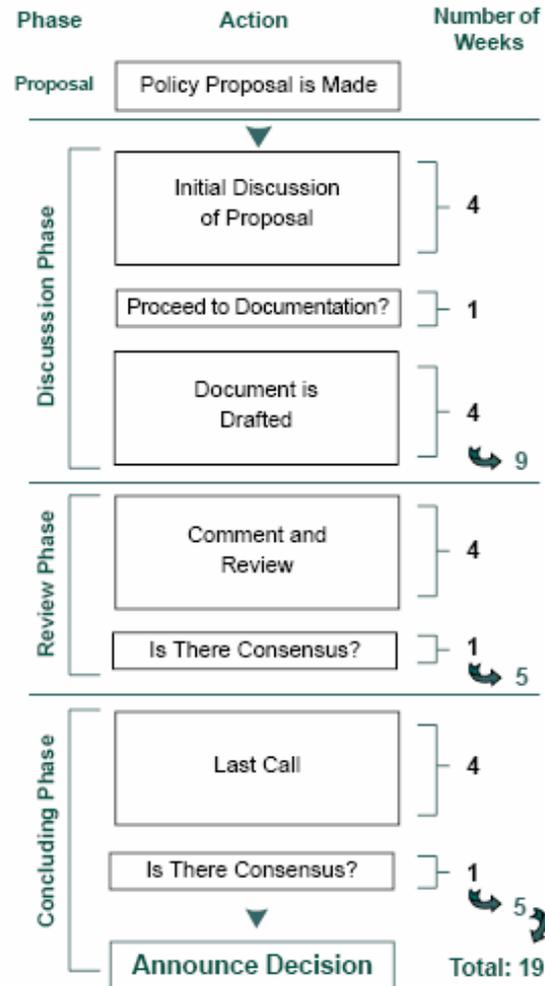
Technology Changes
Industry Requirements

Structured Assessment Process
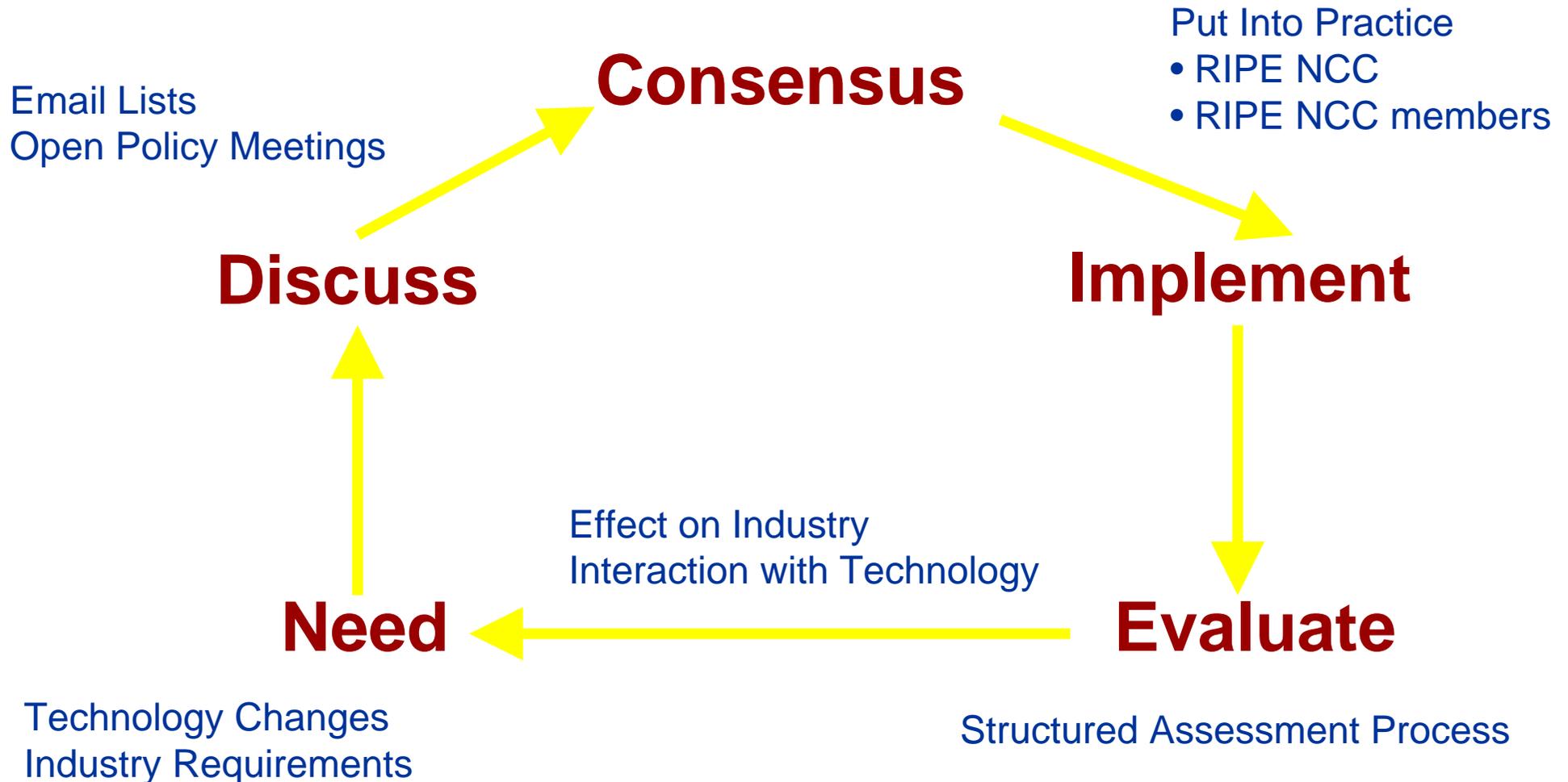
Policy Development Process

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