'Working together' How the RIPE NCC and its community can have a productive relationship with LEA

Introduction

The RIR system
The RIPE NCC

So what am I going to talk about

- This morning is about the - RIRs, DB and reporting errors - from an LE view.

- How can LEA participate in the RIPE community.

Richard Leaning - Me

I joined the RIPE NCC in 2015 after a 30-year career in law enforcement.

I have worked for the National Cyber Crime Unit (NCA) in the UK and also at the European Cybercrime Centre (Europol) based in The Hague.

I have extensive expertise and experience related to Internet governance, cyber security stakeholders and Internet communications relevant to cybercrime.

Regional Internet Registries (RIR)

- There are five RIRs in the world:

    - AFRINIC, APNIC, ARIN, LACNIC and RIPE NCC

- Not-for-profit membership organisations

- Distribute and register Internet Number Resources: IPv4, IPv6 and ASNs

    - "Created" by the IETF.

    - Each RIR has its own service region

    - Policy decided per region to accommodate differences

The Internet Number Registries

The RIPE Database

Brief Introduction

The RIPE Database

- **Public Internet resource and routing registry database**

    - IP addresses, AS Numbers

    - Contact information

    - Reverse DNS delegations

    - Routing policies

Quality of the Registration Data

- **RIPE NCC does controls**
  - **Before** the registration
  - **After** the registration
- **Through contractual relationships**
  - Between the RIPE NCC and the LIRs
- **Verifying compliance with RIPE policies**
- **Performing audits, Assisted Registry Check (ARCs)**
- **Changes must be supported with documentation**

https://www.ripe.net/publications/docs/ripe-657

Non-Public Data

- Only provided if a Dutch court order or other legally binding order is presented by a Dutch LEA

- LEAs and other organisations operating outside of the Netherlands are required to follow the mutual legal assistance treaties (MLAT) procedures

- The RIPE NCC will evaluate each order

- If an order is considered illegal or of a non-obligatory nature, the RIPE NCC will not comply and challenge it

https://www.ripe.net/publications/docs/ripe-588

The Internet Number Registries

Reporting Errors

RIPE NCC procedures

Which Errors?

- **Incorrect information in the RIPE Database**

  - Invalid/false data in **organisation** object

  - Invalid/false data in **person** objects

- **Causes:**

  - Old objects

  - Lack of maintenance

  - Bad intentions

Where to report?

http://www.ripe.net/report-form

What to Report?

Please tell us what you would like to report. More...

✓ Choose a category...

Violation of RIPE Policies or RIPE NCC Procedures

Provision of untruthful information to the RIPE NCC

Bankruptcy, liquidation or insolvency

Incorrect contact information in the RIPE Database

Damage to the name, trademarks or intellectual property of the RIPE NCC

☑ **I represent a Law Enforcement Agency.**

Please let us know if you represent a law enforcement agency.

Organisation

Please let us know which organisation you represent. More...

Your organisation

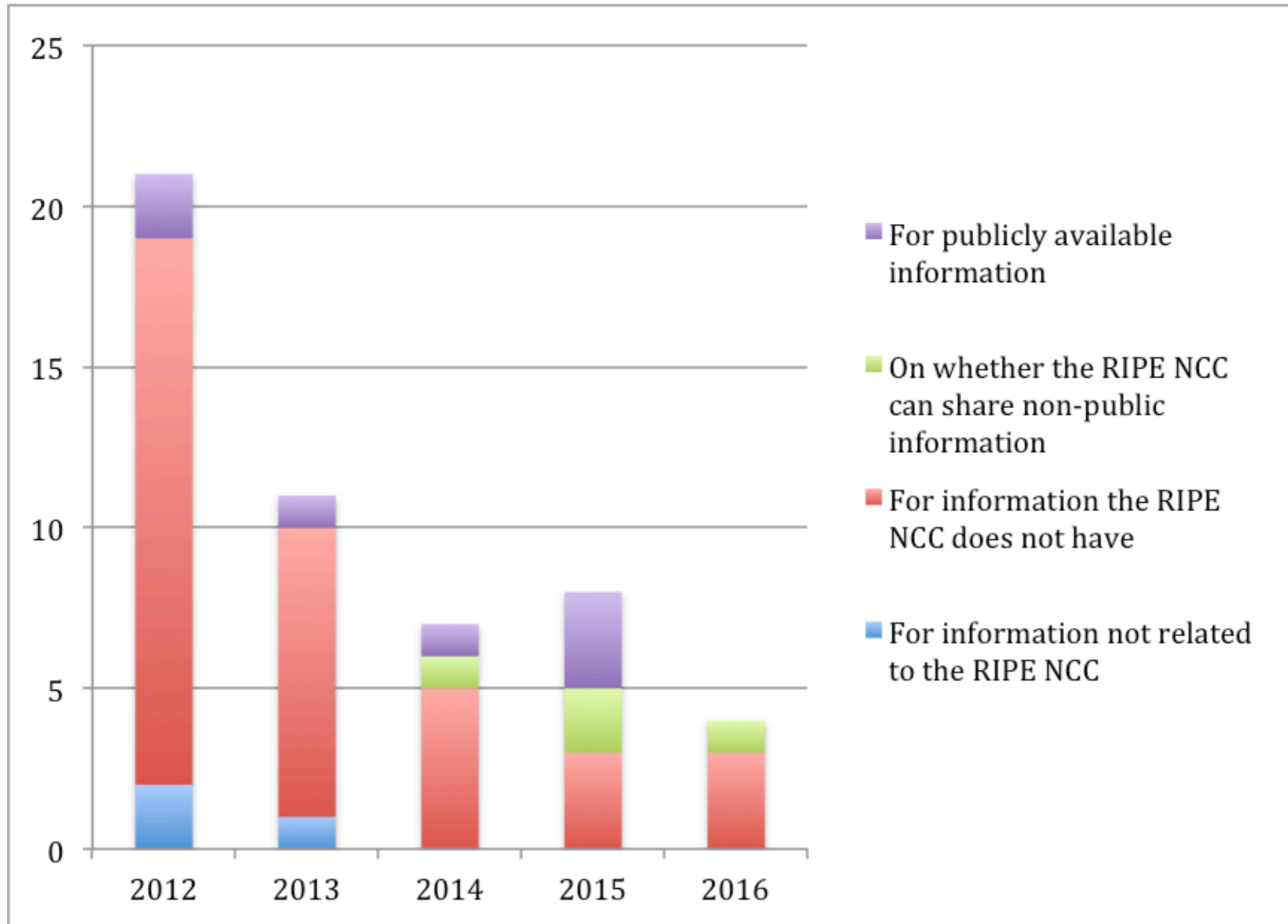# Investigating reports

- **Benefit of doubt**

  - People just forget to update the database

- **RIPE NCC contacts the member**

- **We might take further action:**

  - Start an audit

  - Closure

- **Outcome never reported back to reporter**

Closing an LIR

- **Contractual**

  - Bankruptcy

  - Non payment

- **Legal**

  - Non compliance with Dutch law

- **Fraudulent information**

- **Non-compliance with policies or procedures**

Some Stats re LEA request

Legend:
- For publicly available information
- On whether the RIPE NCC can share non-public information
- For information the RIPE NCC does not have
- For information not related to the RIPE NCC

Questions

Participating

Policy Development Process

- **Open**
  - Anyone can participate
  - On mailing lists and at meetings

- **Transparent**
  - List discussions archived publicly
  - Meetings transcribed

- **Developed bottom-up**
  - **YOU** make the policies
  - The RIPE NCC implements them

Who Does What ?

- **The RIPE community**
  - Creates proposals
  - Discusses proposals
  - Seeks consensus

Who Does What ?

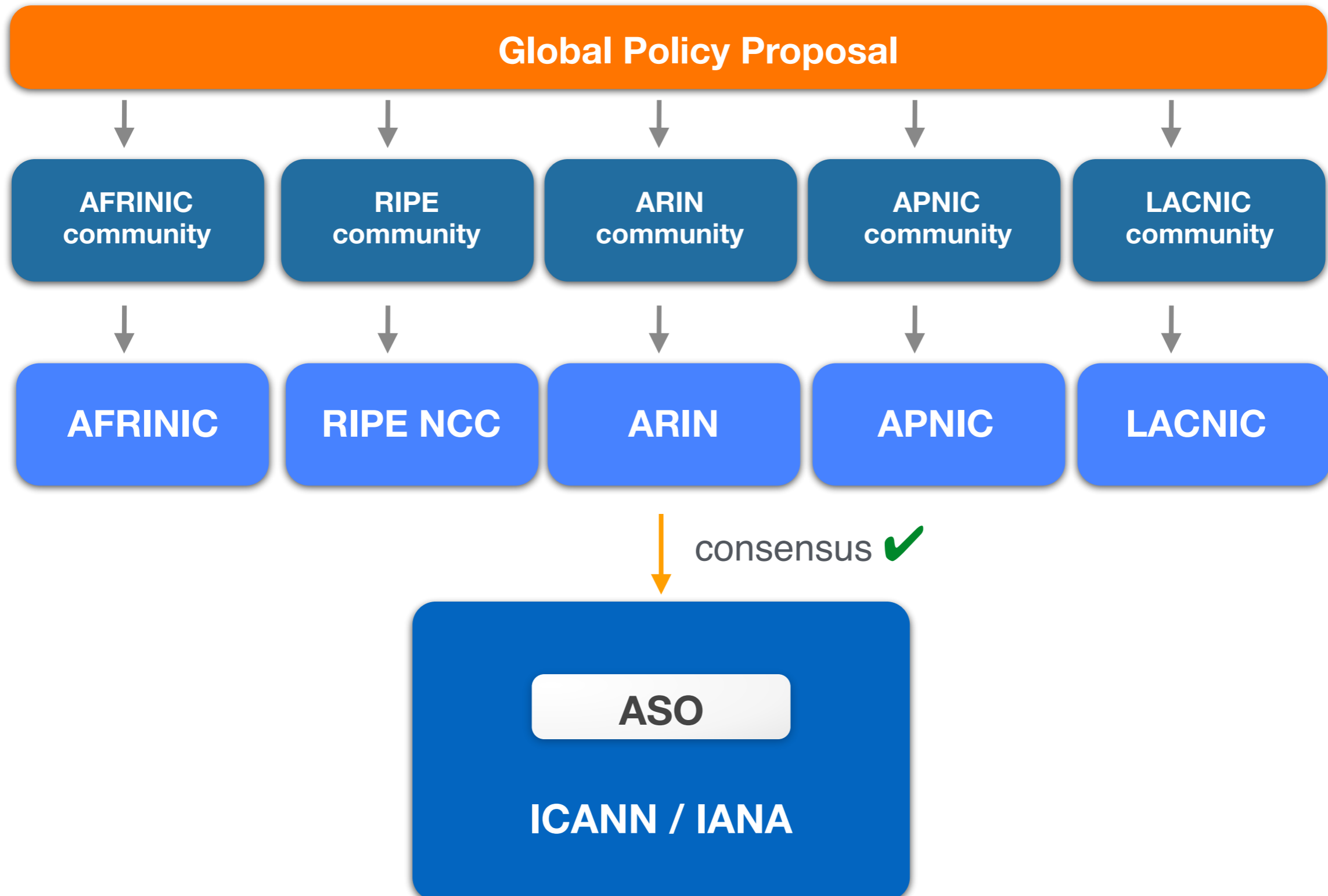- **The RIPE NCC**

    - Acts as the secretariat to support the process

    - Publishes the documents

    - Implements the proposals

    - We can help the community get involved in the process

    - Make sure the community speak to right people in the process. Working Group Chairs, like minded people.

Working Groups - Topics/All linked

- **Address Policy**

- **Routing**

- **Database**

- **Anti-abuse**

- **Cooperation**

- **IPv6**

- **RIPE NCC Services**

- **Connect**

- **Open Source**

- **Measurement, Analysis and Tools**

Who Makes Policies ?

Global Policy Proposal

AFRINIC community	RIPE community	ARIN community	APNIC community	LACNIC community

AFRINIC	RIPE NCC	ARIN	APNIC	LACNIC

consensus ✔

ASO

ICANN / IANA

Questions