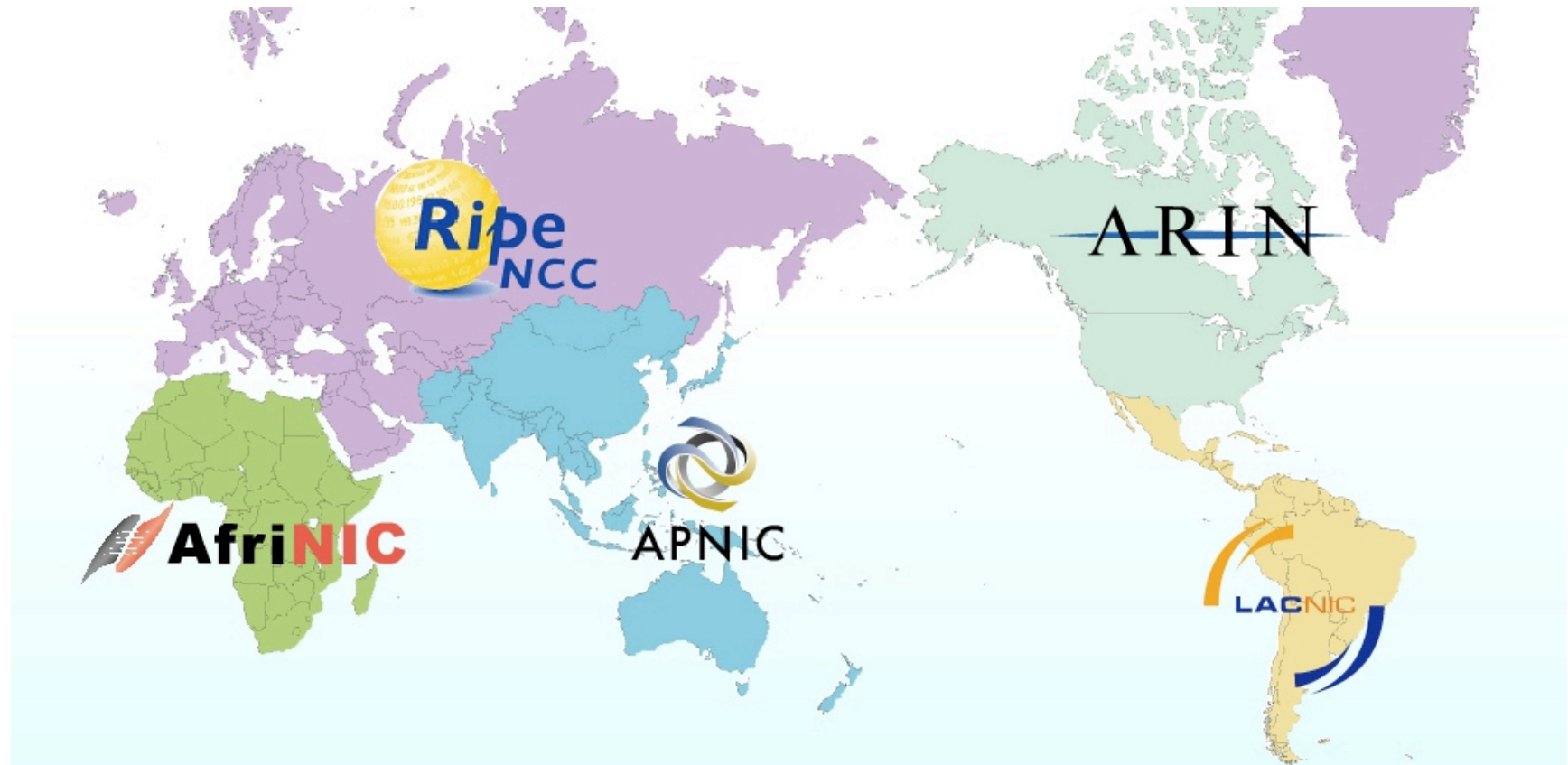# APNIC IPv6 Update

Jeffrey Tosco, APNIC

20 July 2011, Singapore

In conjunction with

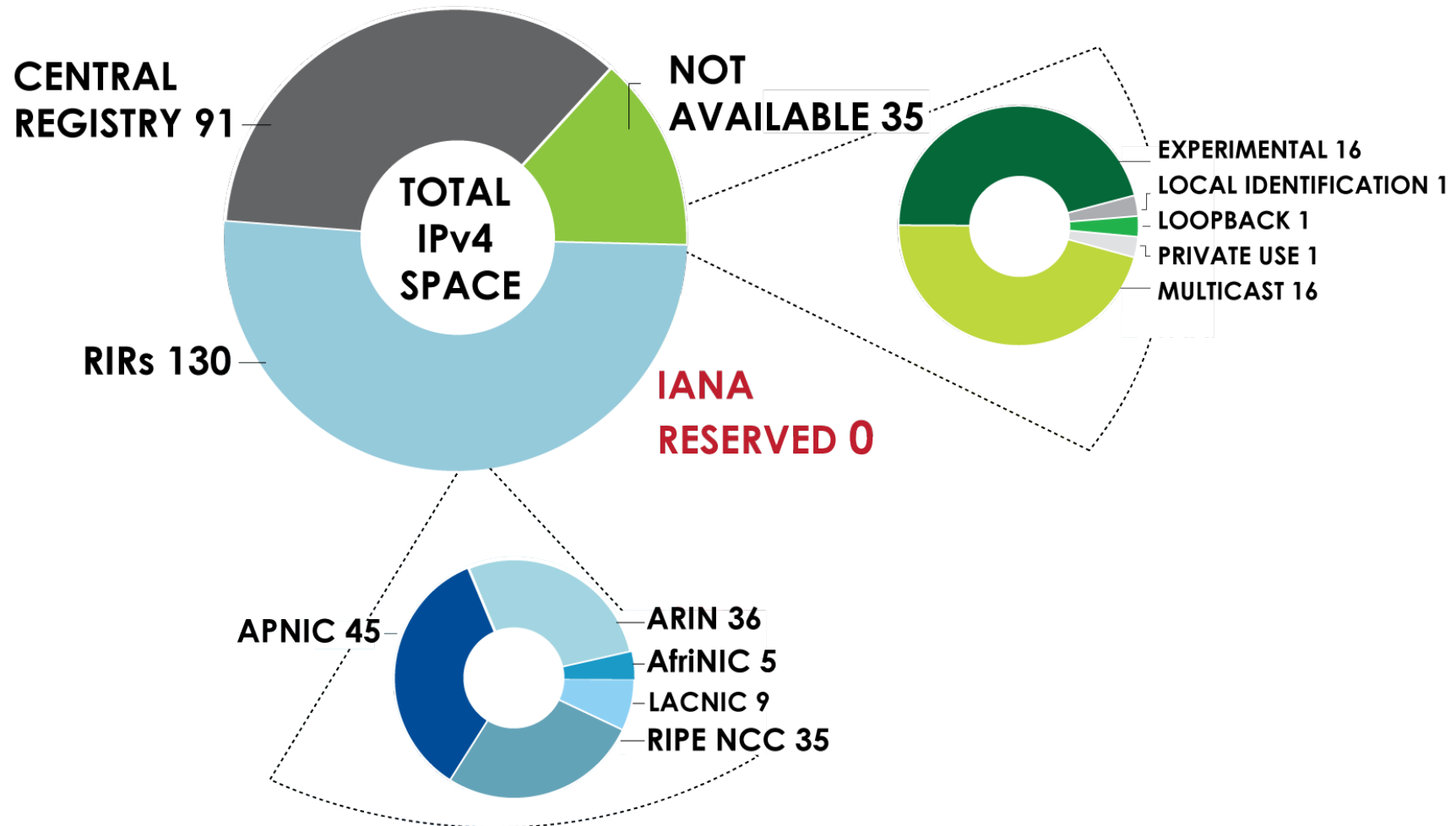**Singapore Network Operators' Group (SGNOG)**
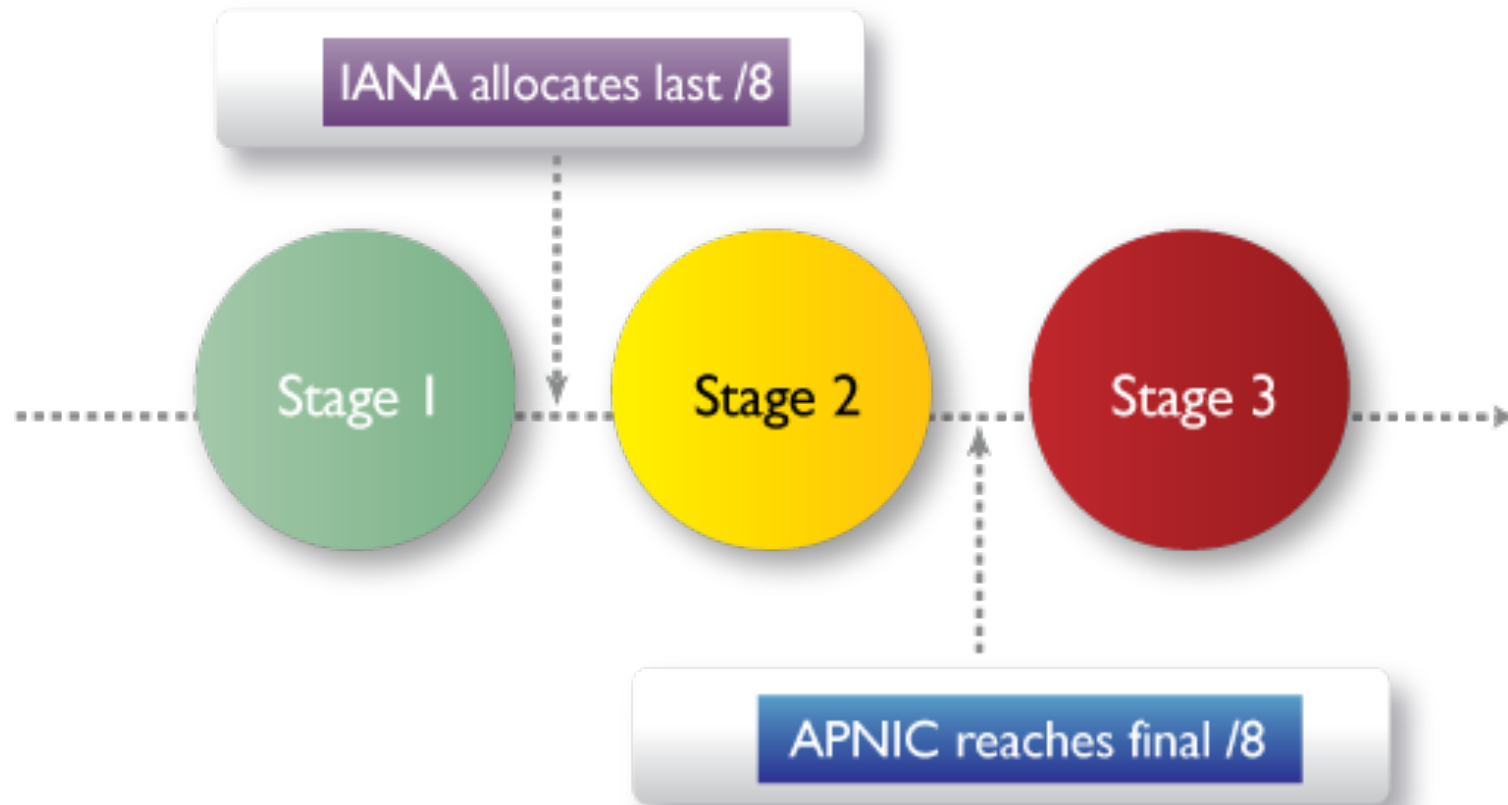
What is APNIC?

The Internet community established the RIRs to provide fair and consistent resource distribution and accurate resource registration throughout the world.

IPv4 Address Space

STATUS OF 256 /8s IPv4 ADDRESS SPACE

CENTRAL REGISTRY 91

NOT AVAILABLE 35

TOTAL IPv4 SPACE

RIRs 130

IANA RESERVED 0

EXPERIMENTAL 16
LOCAL IDENTIFICATION 1
LOOPBACK 1
PRIVATE USE 1
MULTICAST 16

APNIC 45
ARIN 36
AfriNIC 5
LACNIC 9
RIPE NCC 35

APNIC

IPv4 - Where are we now?

IANA allocates last /8

Stage 1   Stage 2   Stage 3

APNIC reaches final /8

Appropriate policies/procedures applied at different stage

APNIC

What's the Challenge?...

- You will need addresses for new network infrastructure

  - and will receive only IPv6 in the near future

- All Internet users will be affected

- Are you ready?

Preparing for IPv6 Transition

- **Overall planning**
  1. Review the impact of IPv4 address exhaustion
     - Inventory of your IT assets
  2. Develop an IPv6 deployment plan
     - Strategy, scope of the deployment, schedule, auditing of execution of the plan
  3. Budget readiness
  4. Technical management
  5. Human capacity development

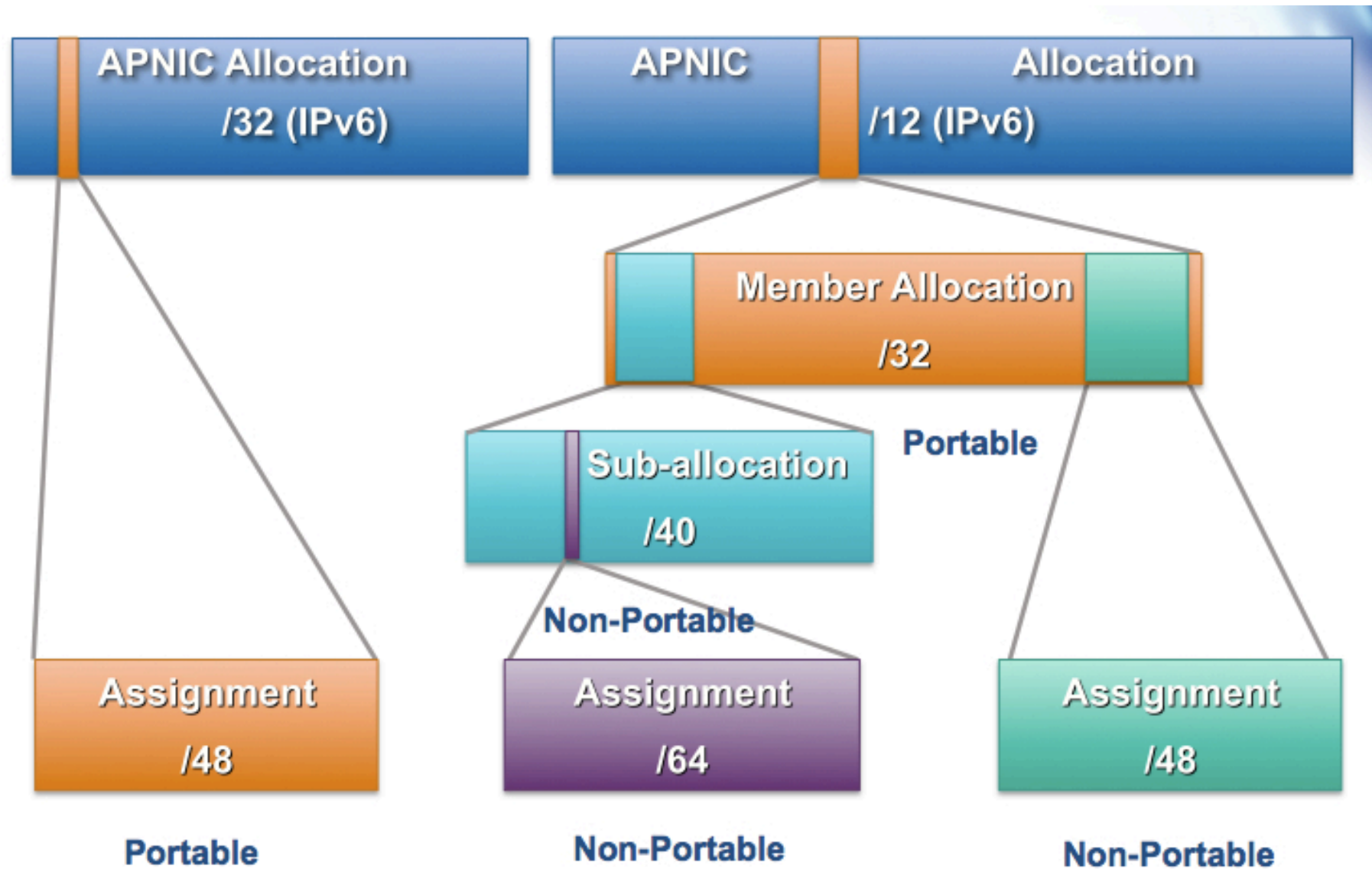# IPv6 Address Distribution

Kickstart your IPv6 network!

Already a Member account holder? Have IPv4 addresses and want IPv6 resources?

Members: Login and receive IPv6 addresses via MyAPNIC.

New to APNIC? Only want to apply for IPv6 resources?
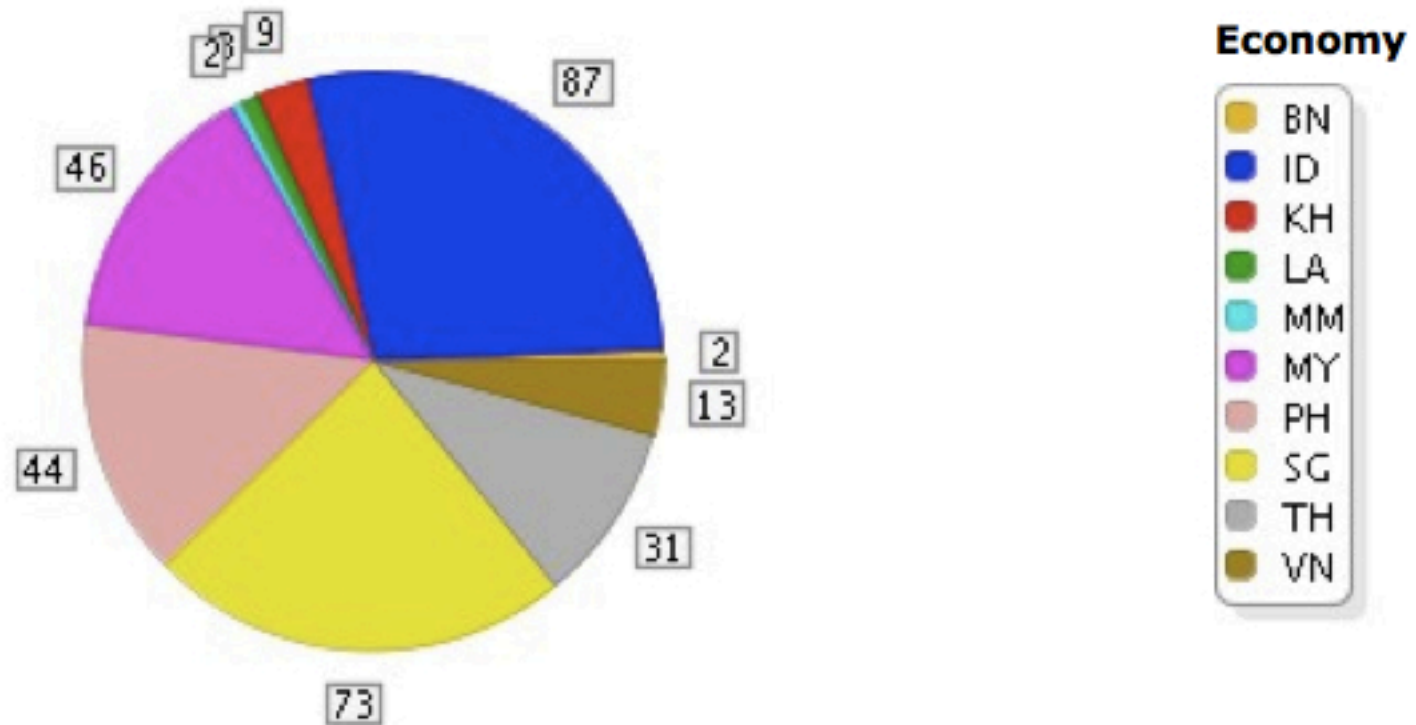
Find out how easy it is to get IPv6 addresses.

APNIC

IPv6 Address Management
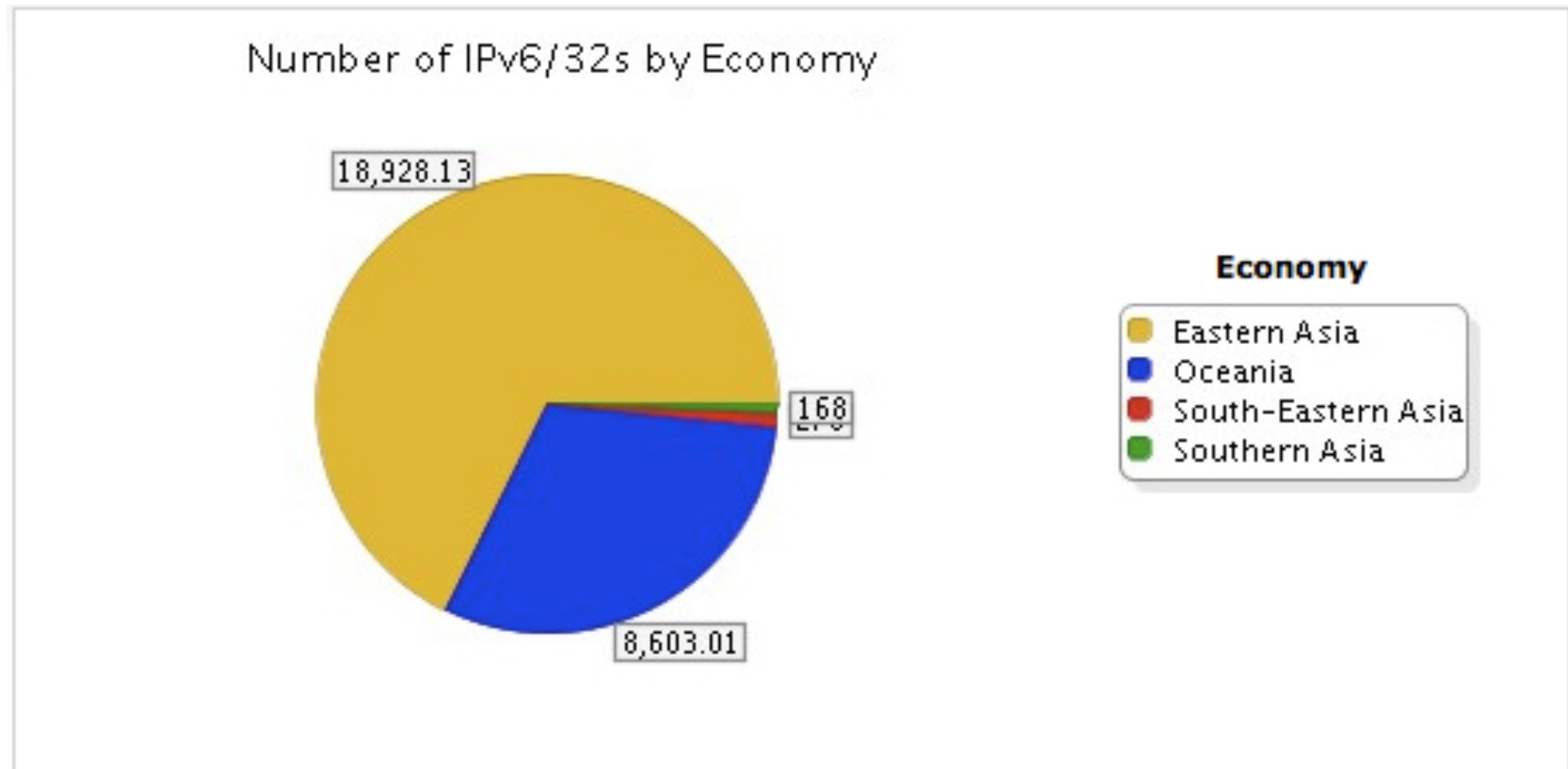
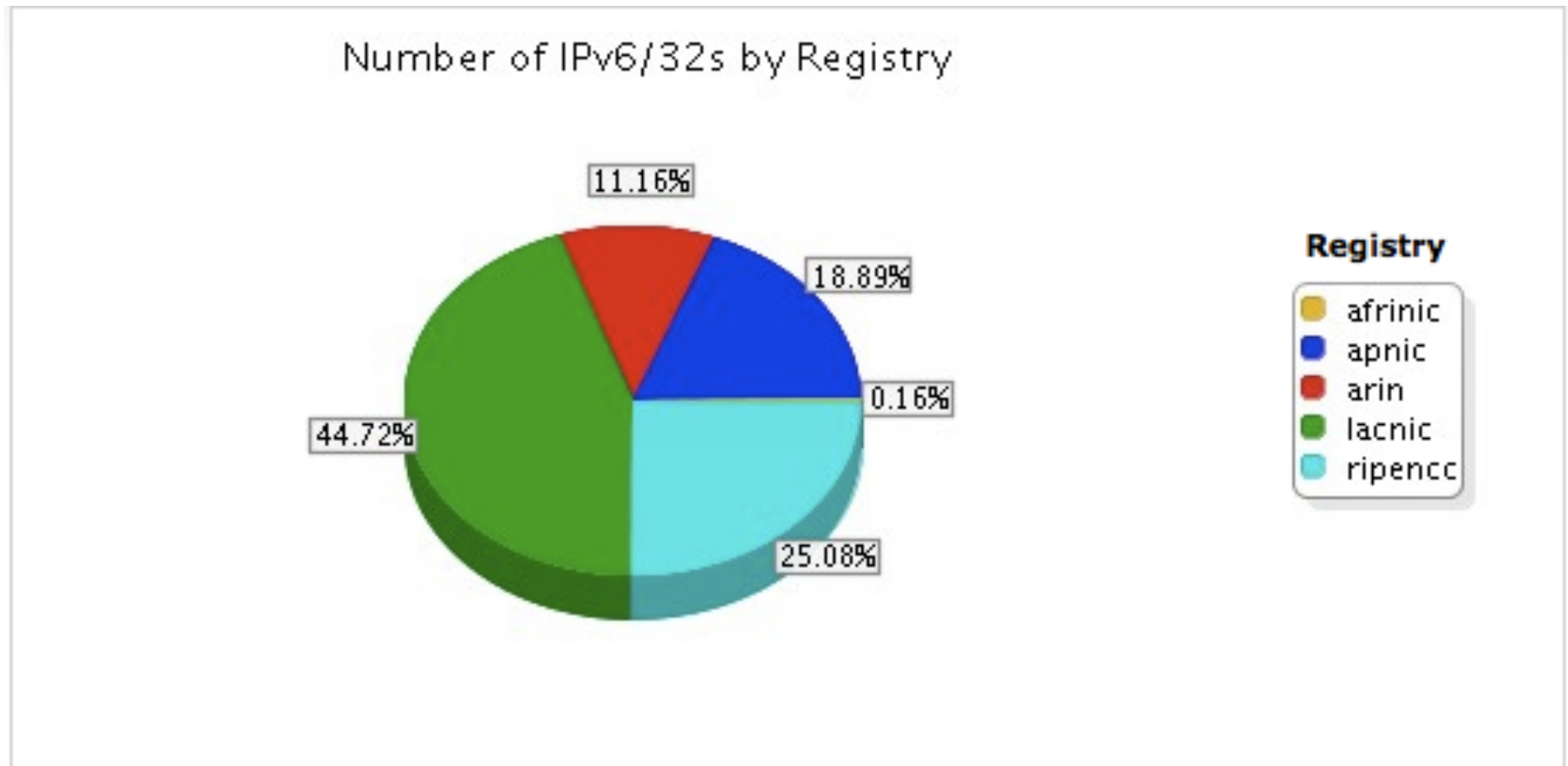# IPv6 Allocations – South Eastern Asia

Number of IPv6/32s by Economy

Economy
- BN
- ID
- KH
- LA
- MM
- MY
- PH
- SG
- TH
- VN

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IPv6 Allocations – Asia Pacific

Number of IPv6/32s by Economy

18,928.13

168

8,603.01

Economy
- Eastern Asia
- Oceania
- South-Eastern Asia
- Southern Asia

IPv6 Allocations – World wide

More information

- ## IPv6 Training courses
  - Face to face, eLearning and Technical hands-on workshops
  - http://www.apnic.net/training
- ## APNIC Helpdesk
  - Email <helpdesk@apnic.net>
  - Chat (9am to 9pm AEST)
- ## APNIC Website
  - http://www.apnic.net

Thank You! ☺