



APNIC

Asia Pacific Network Information Centre



Recovery of Unused Address Space

prop-017-v001

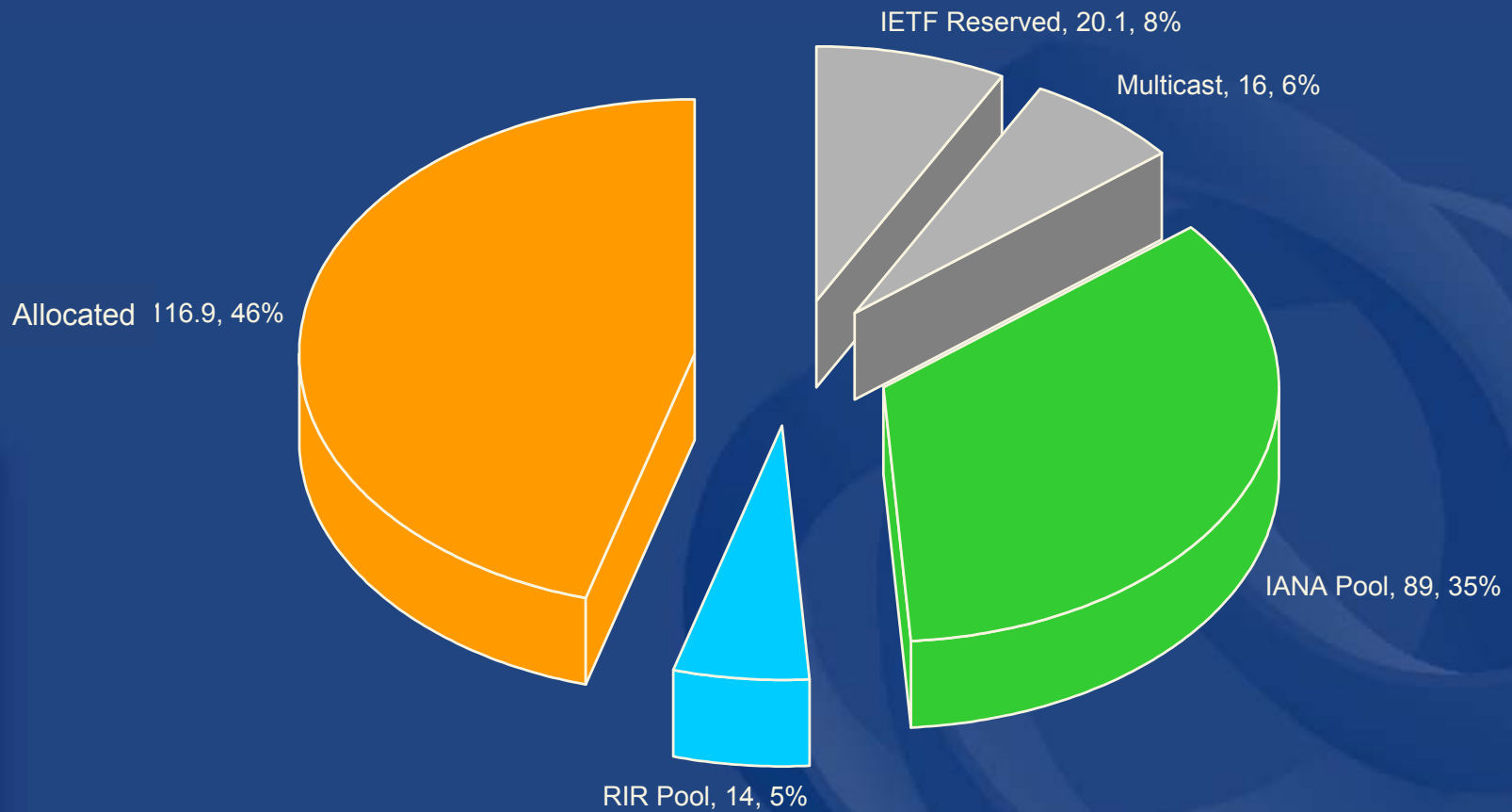
Policy SIG
APNIC17/APRICOT 2004
Feb 23-27 2004
KL, Malaysia



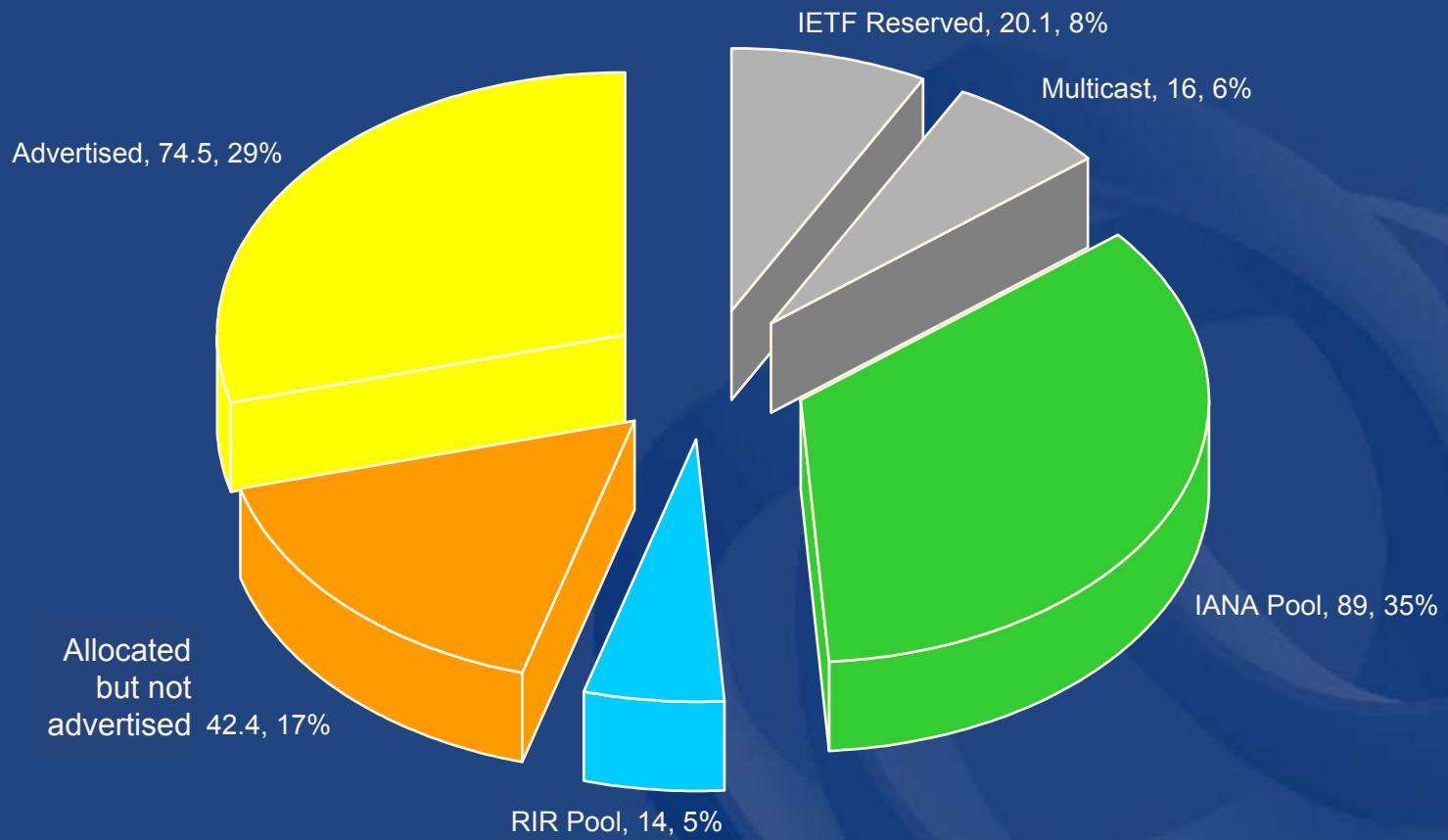
Definitions

- *“Historical”*
 - Address space not subject to current policies
 - Not covered by a current agreement with APNIC (either member or non-membership)
- *“Unrouted”*
 - Address space which has not been routed on the Internet for some specified (long) period of time
- *“Unused”*
 - Unrouted and not in private use

Background



Background





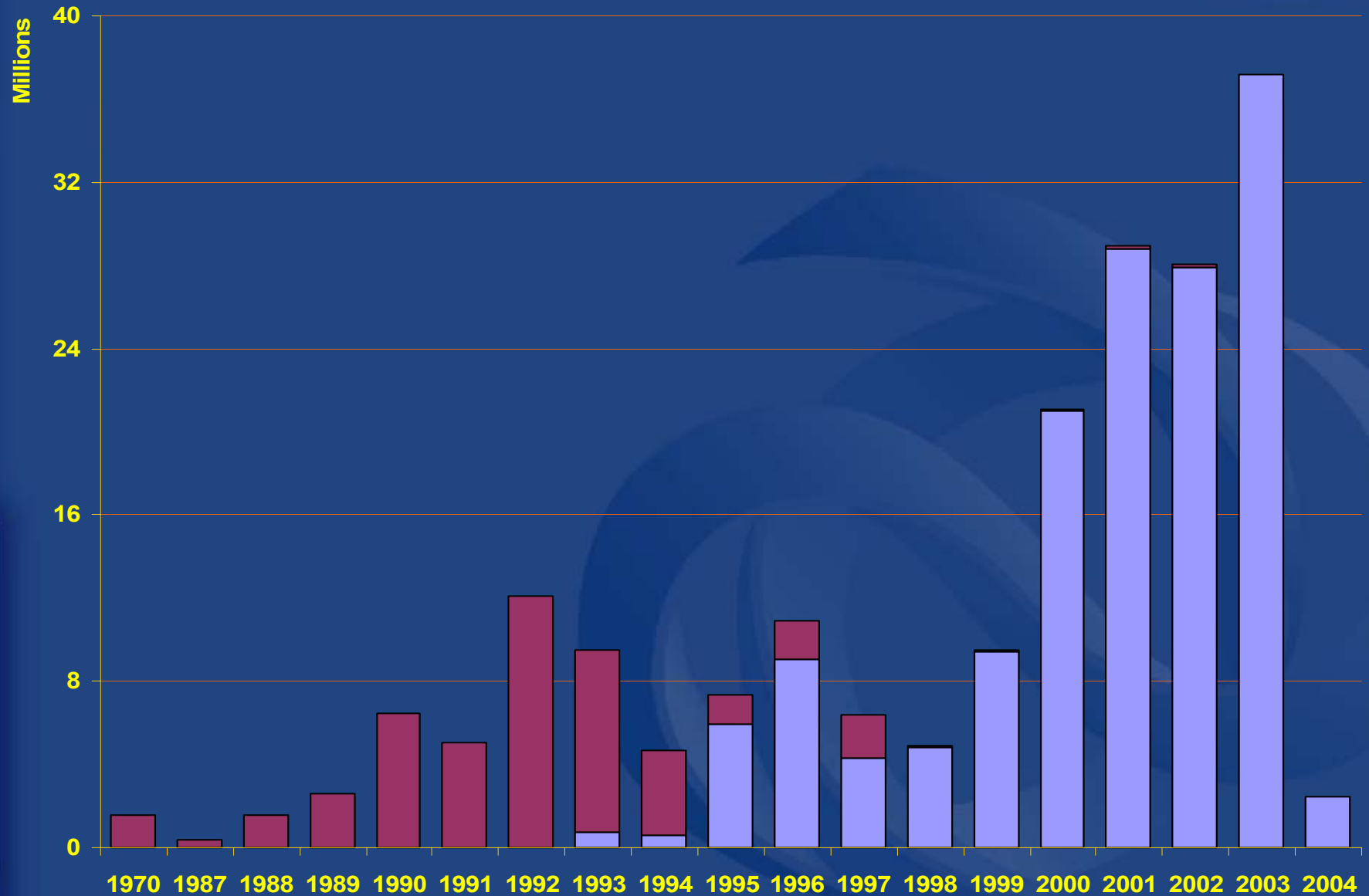
Background - Historical Space

- Approx 36% of all allocated address space is not advertised
 - Total of 42.4 /8 blocks
 - Majority is historical
- RFC2050 provisions for unrouted addresses
 - ISP are assumed to be connected to the Internet and to route address space allocated
 - Assignments to organisations *can* be made if there is no alternative (Section 3.0 a)

APNIC Historical Space

- Currently total of 184772 /24s
 - 2.8 /8s in total
- ERX
 - 90% of APNIC Historical space is ERX
 - Project still underway, ~50% complete
- Other
 - AUNIC space inherited (from 203.0/14)
 - Other space in 202/7
- No formal agreements in place regarding any of this space

APNIC Historical Space





Proposal

- To recover address space which is unused
- To make recovered space available for reallocation, eventually
 - Not necessarily by APNIC
- Operational steps to follow....

Operational Steps 1 - 3

1. Obtain list of top level parent blocks



2. Consult RIS to determine if routed



3. Notify resource holders of intent to reclaim



Operational Step 4

- **Response A**
 - Resource holder agrees to return address range to free pool
 - Address records will be marked as “reclaimed”
- **Response B**
- Resource holder does not agree to return address range
 - Address records updated as necessary
- **Response C**
 - No response
 - Address range remains on list for later action

Operational Steps 5 - 7

5. Once all blocks complete
pause for 2 months
repeat steps 2-4



6. After 12 months put 'no
response' addresses in
'reclaimed' pool



7. Develop evaluation and
monitoring plan of 'used' status
of all APNIC address space



NIR Considerations

- The NIRs may choose to implement this policy, according to local needs for networks in their economies
 - Timeframe determined by NIR
- Assistance from the NIRs would be very appreciated in contacting holders of historical address blocks

Implementation



- Timeframe for APNIC Secretariat
 - 3 months for implementation
 - Policy development process requires 2 months for comment on mailing list followed by EC approval



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Questions?

- Thank you

