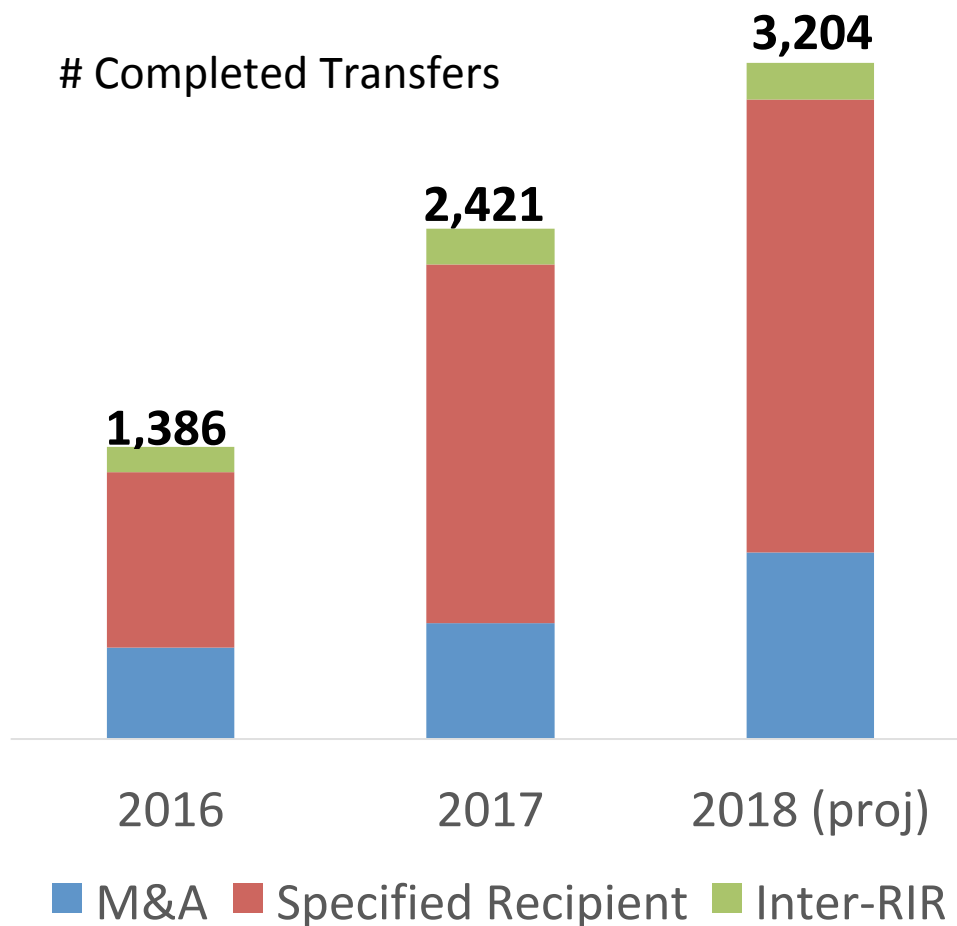


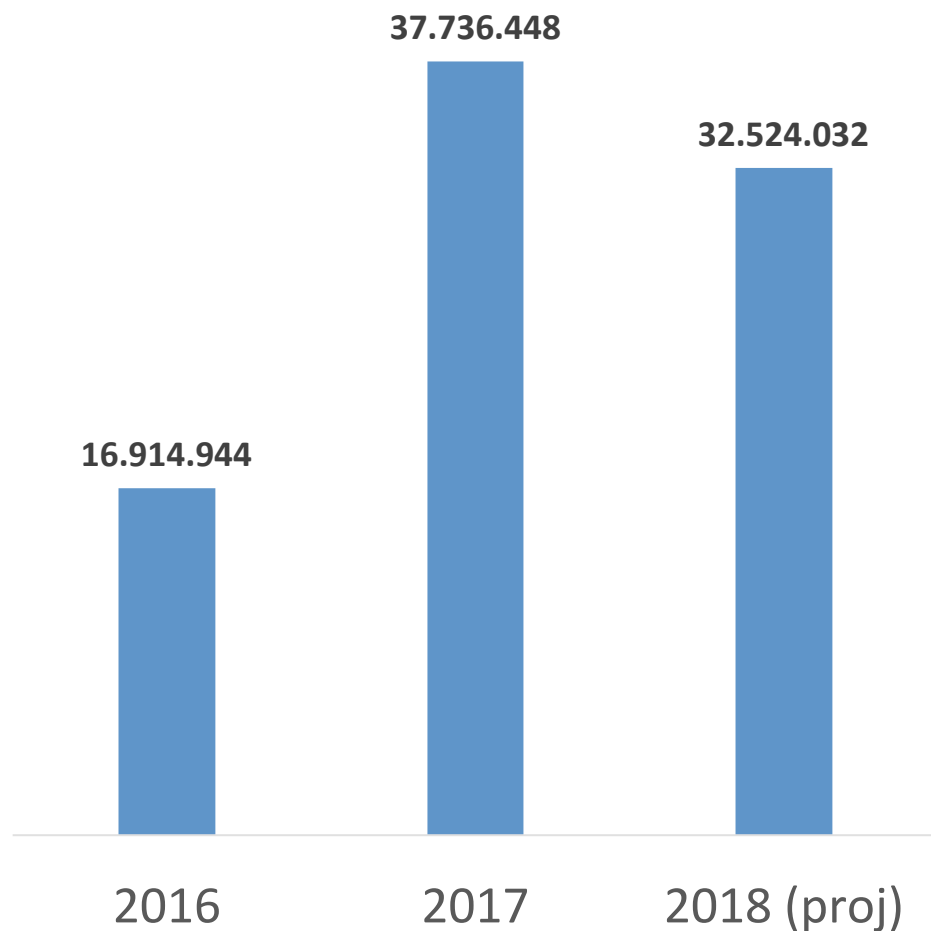
# Transfers Are Increasing

# Completed Transfers



- Significant year over year growth
- Need-based transfers driving M&A transfers
- No signs of slowdown

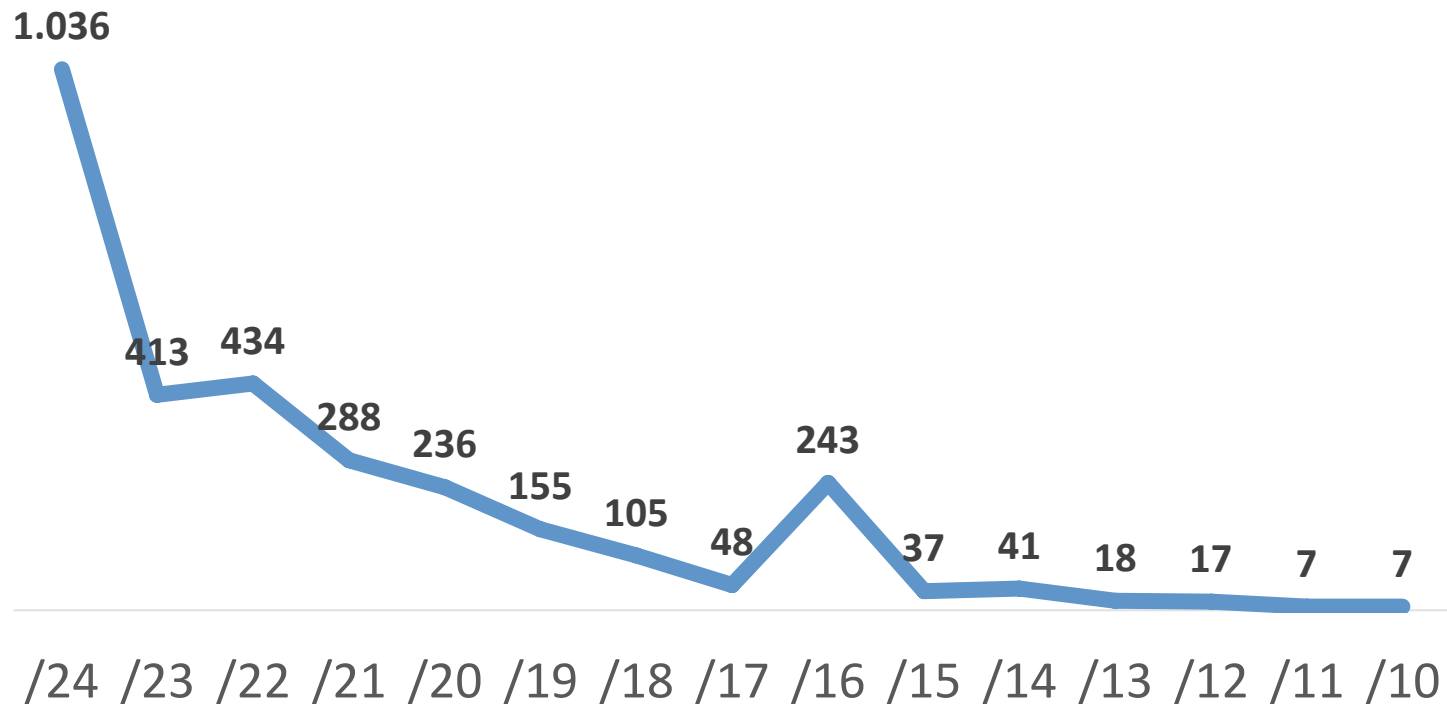
# Specified Recipient Volume



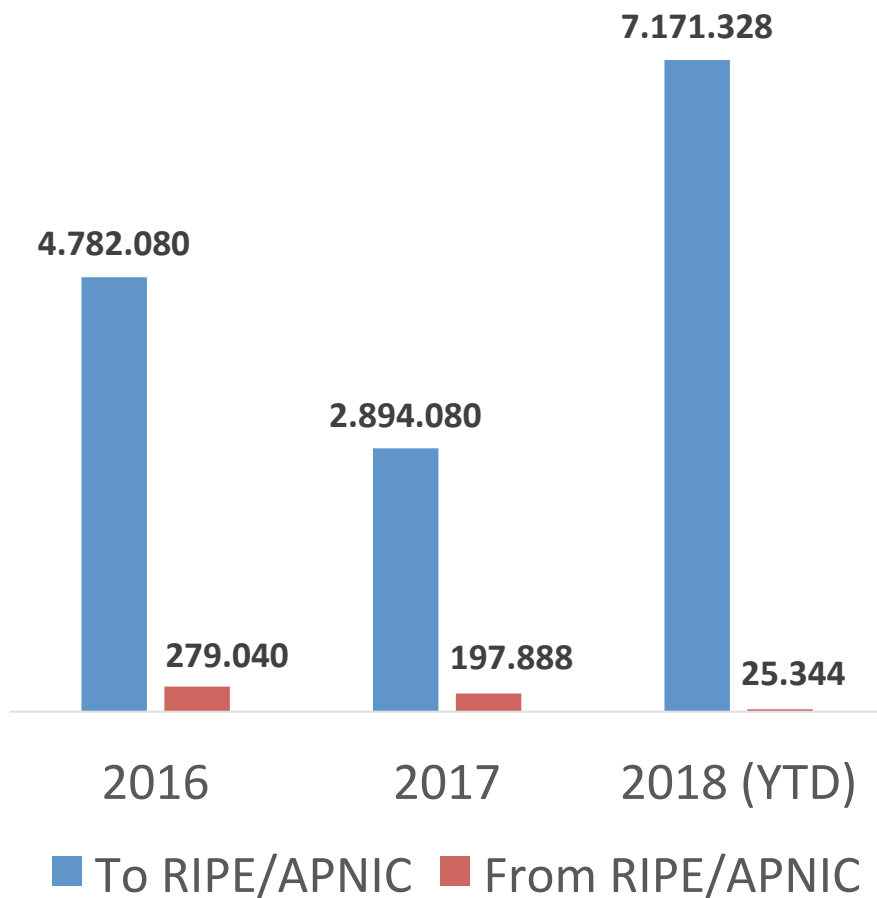
- Increase in number of transfers does not directly translate to number of IP addresses transferred
- This is a sign that smaller organizations are entering the market (average number of IPs per transfer went from 22k in 2017 to 17k in 2018)

# Specified Recipient Prefixes

Number of Blocks Transferred



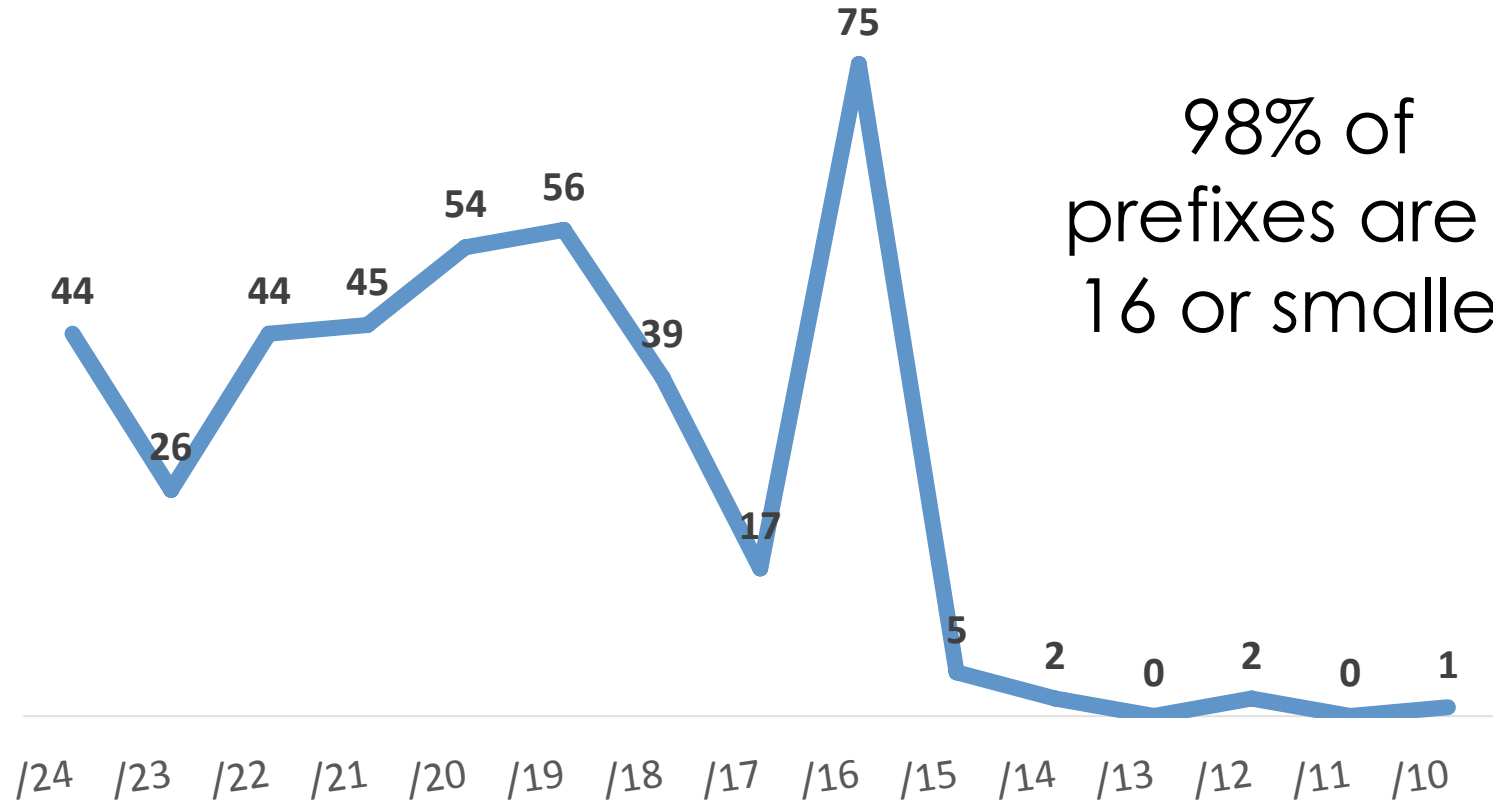
# Inter-RIR Transfer Volume



- From ARIN: 14,847,488
- To ARIN: 502,272
- ~30 times more space transferred from ARIN
- Expectation is that this will continue since ARIN has the majority of legacy space

# Inter-RIR Prefix Breakdown

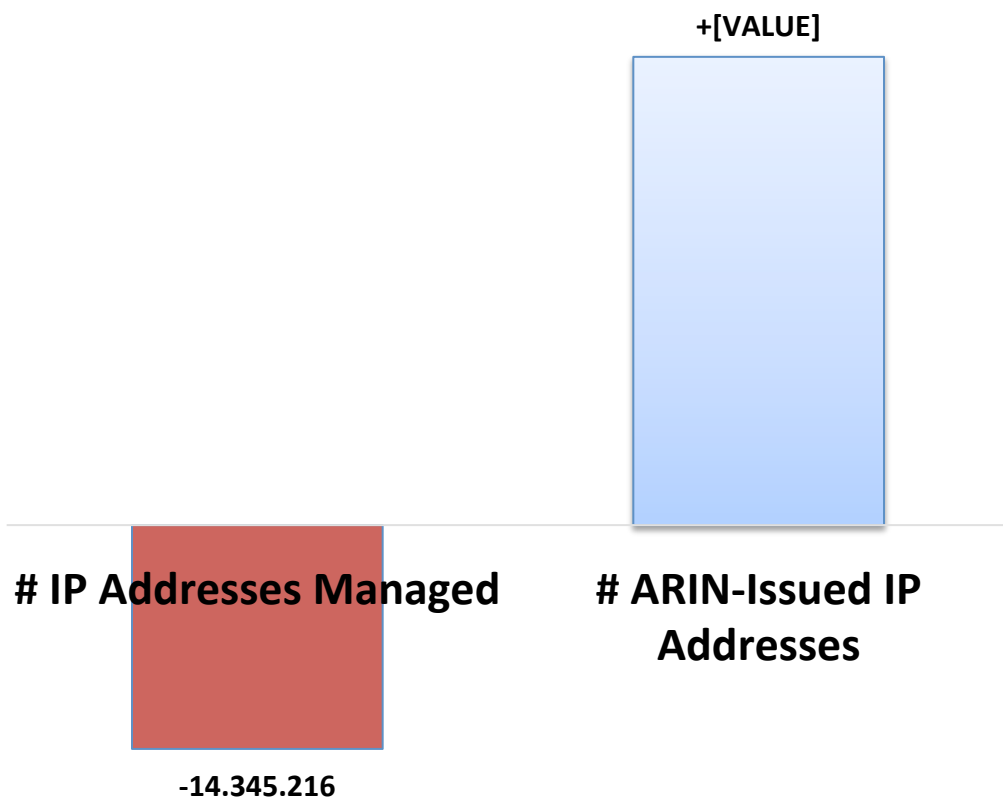
Number of Blocks Transferred From ARIN





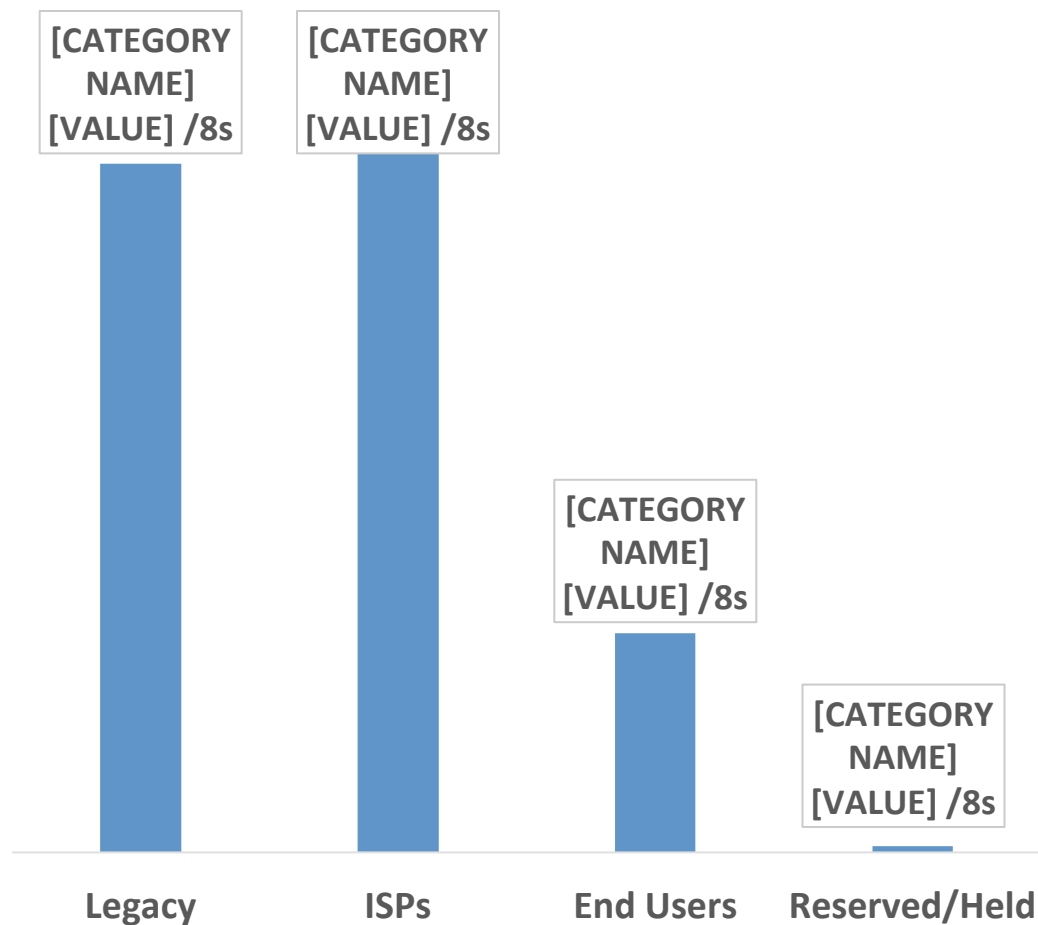
# Transfers Benefit Everyone

Net Change 2016-2018 (IP Addresses)



- Overall space managed by ARIN **decreased by ~14 million IPv4 addresses** from 2016 to present due to inter-RIR transfers
- Overall ARIN issued space **increased by ~30 million IPv4 addresses** due primarily to conversion of legacy space via in-region transfers
- Win-win!

# Current ARIN Inventory



- Bulk of transfers are legacy space
- About half of the legacy space is US DoD space considered to be under contract
- That leaves about 20 /8s available to ARIN, APNIC, and RIPE customers through Inter-RIR transfer policies

# Summary

- Number of transfers growing every year
- Overall total volume of transfers is about 2.5 /8s per year
- ARIN is losing space overall
  - due to inter-RIR transfers,
  - but gaining non-legacy space
- ARIN has a lot of legacy space
- Today that legacy space is available to ARIN, APNIC, and RIPE NCC customers through Inter-RIR transfer policies



# Questions?

