



IPv4 MARKET GROUP

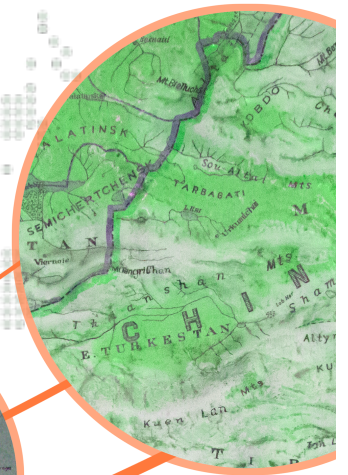
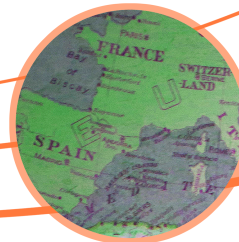
Setting the Standard for IPv4 Transfers

IPv4 Pricing and Transfer Update APNIC 41

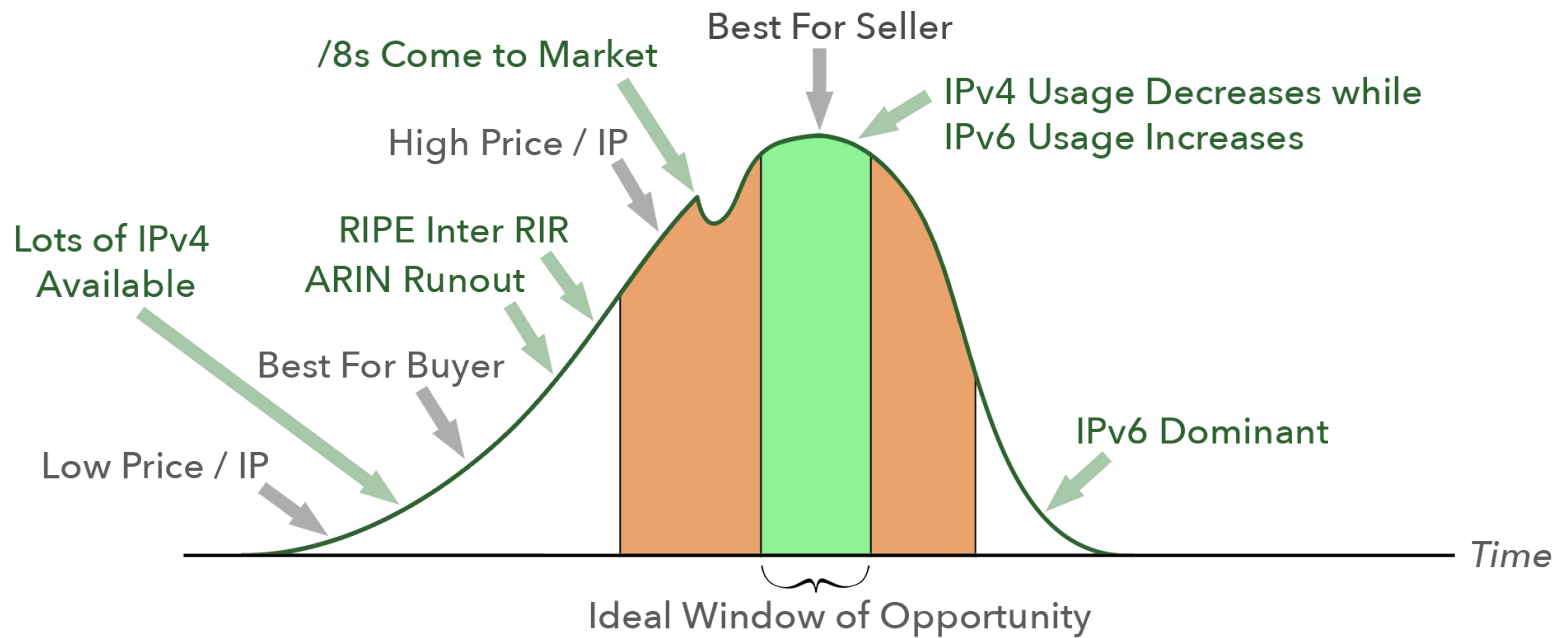
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IPv4 Market Group

February 24, 2016



IPv4 Life Cycle

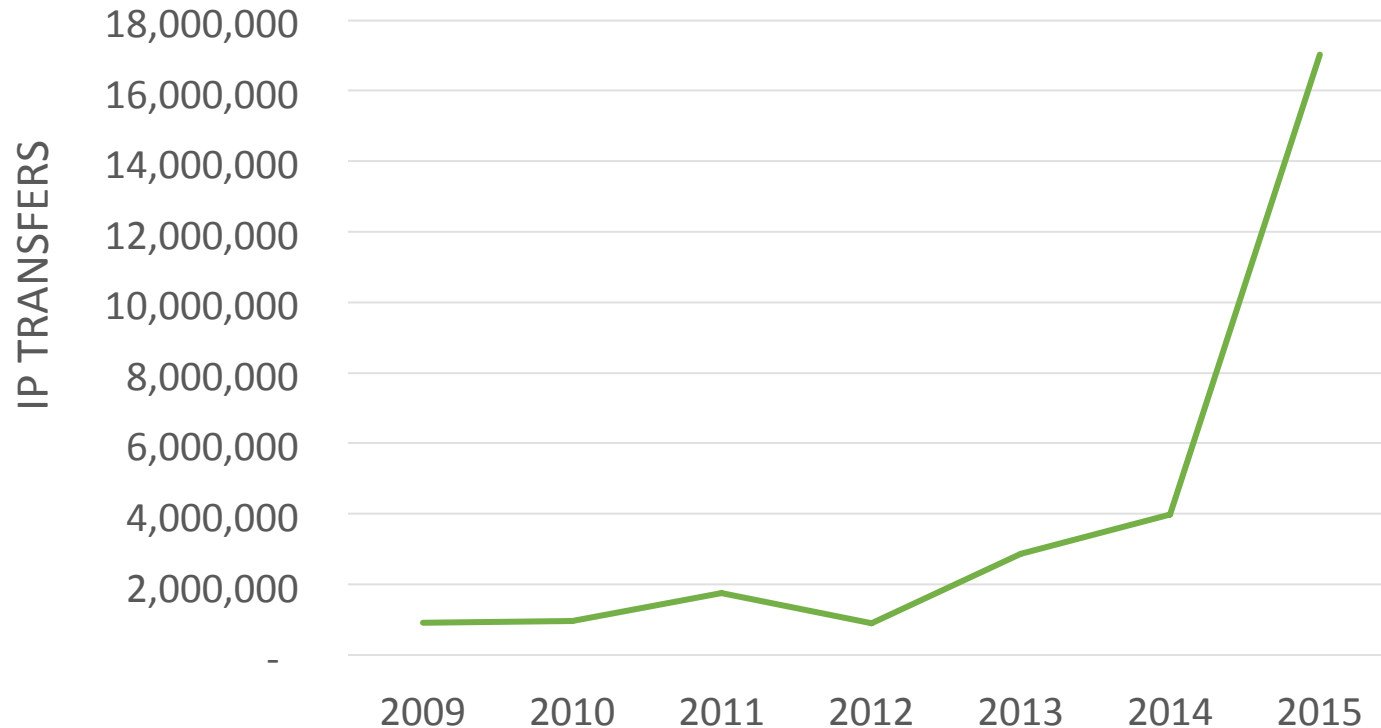


- Events
 - ARIN Runout
 - RIPE Inter-RIR Transfers
 - /8s come to market
 - IPv6 Adoption



Factors Affecting Pricing

OF IP TRANSFERS PER YEAR IN ARIN REGION



- Supplies are being bought up in ARIN region, following run out in July 2015



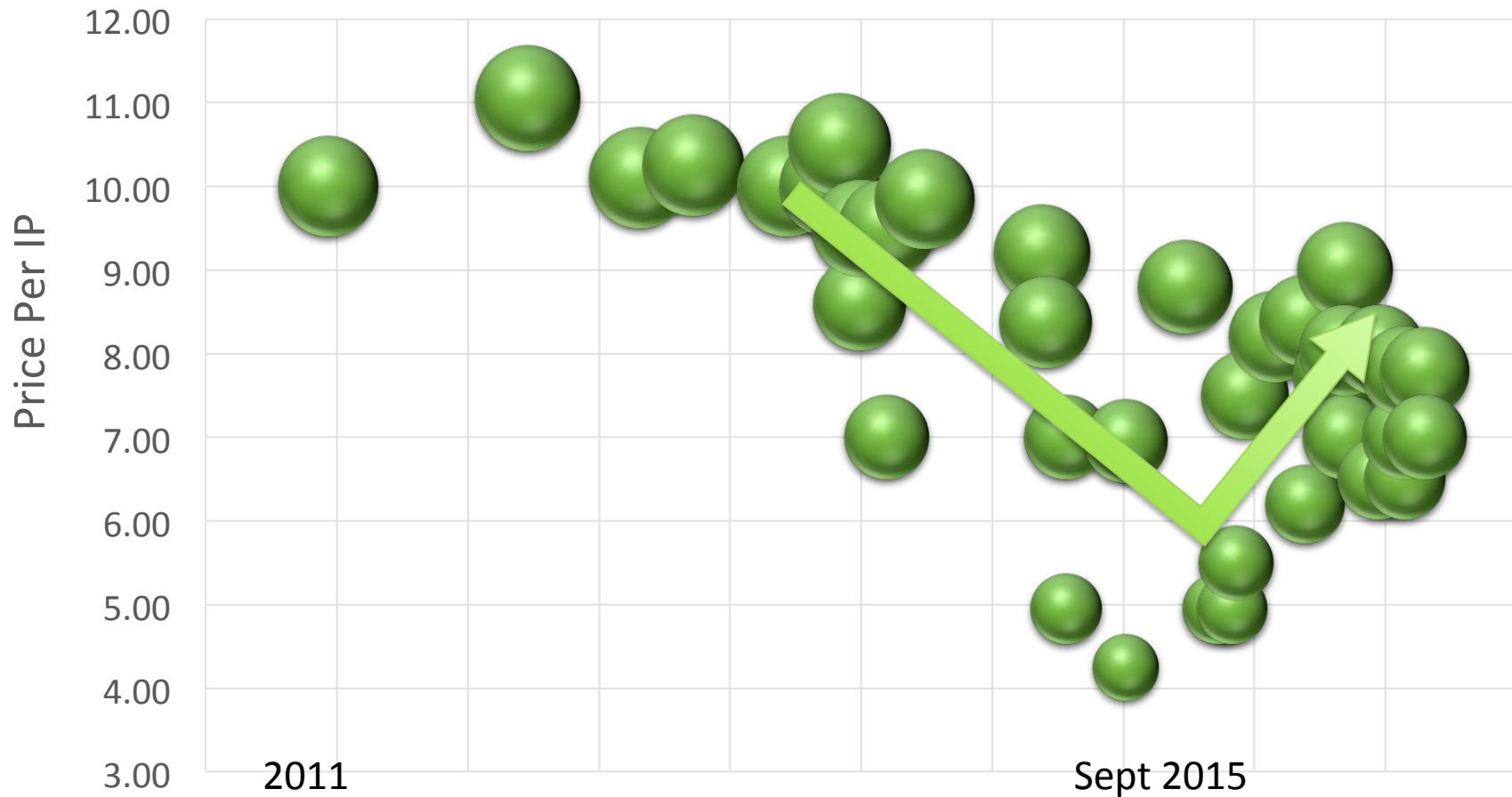
Factors Affecting Pricing

- RIPE Inter-RIR Transfers: Possible since September 2015; Prices have equalized across regions
- IPv6 Deployment: Will reduce demand for IPv4 in the long term; Applications still need to support IPv6
- Use of CGN: Stretches use of IPv4 and reduces price pressure
- Supply of IPv4: As more IPv4 comes to market, such as /8s, prices are pushed down
- Demand for IPv4: Increased demand for cloud applications; population growth



Price Trends over Time

IPv4 Transactions Over Time - /16 Blocks

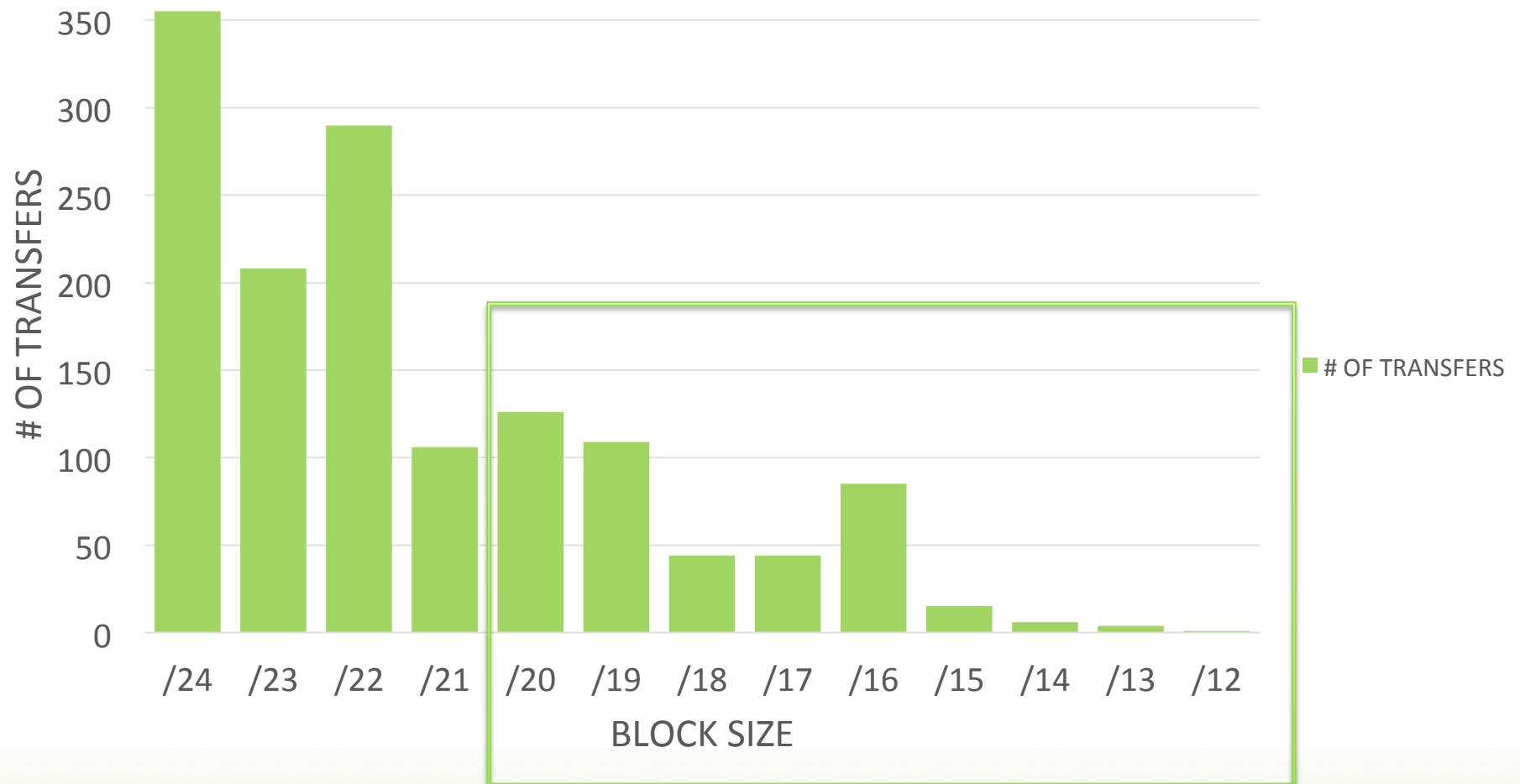


Inflection point in Sept 2015 - prices increased for /16 and larger blocks



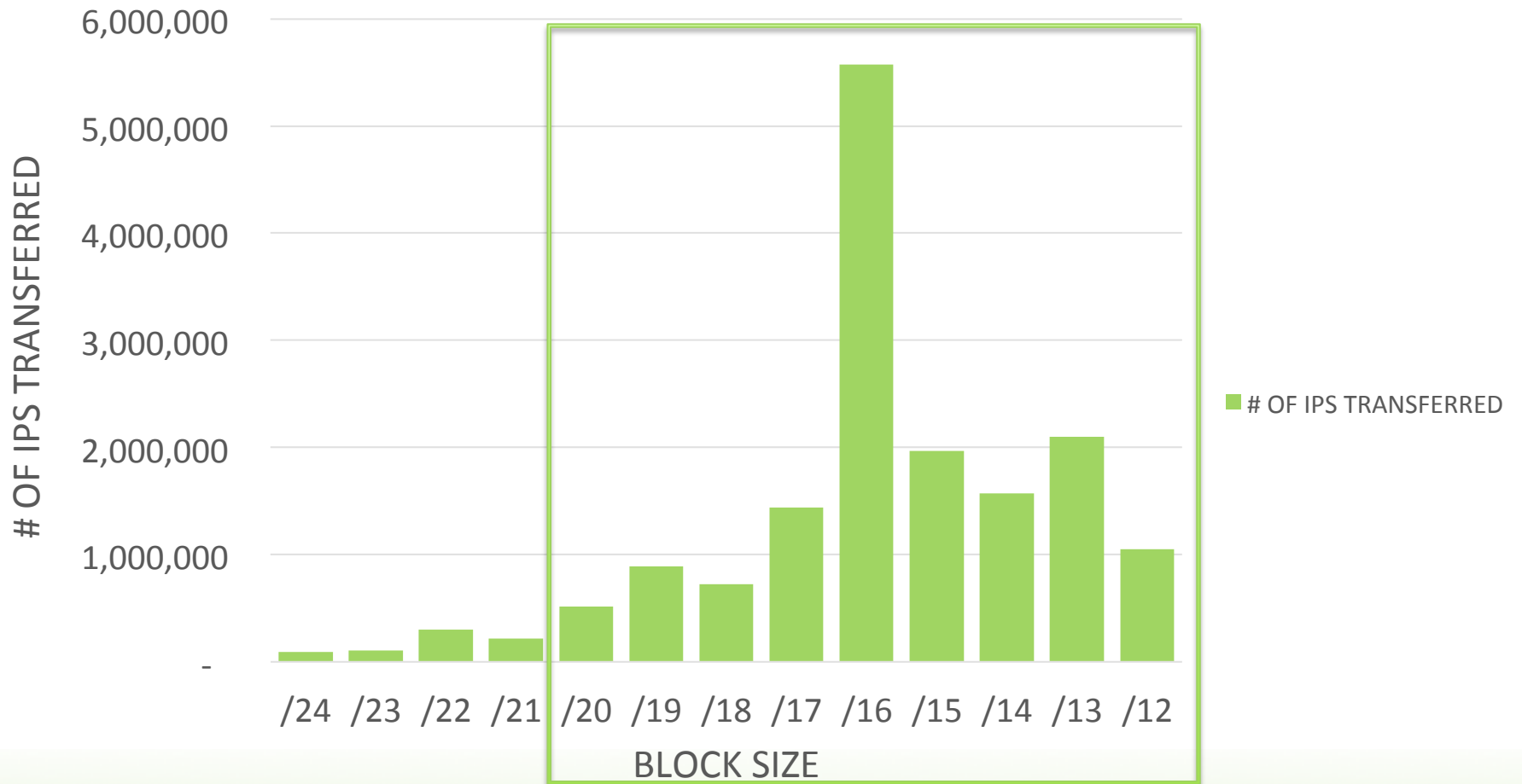
APNIC Transfer Activity

OF TRANSFERS PER BLOCK SIZE



APNIC Transfer Activity

OF IPS TRANSFERRED PER BLOCK SIZE



Predictions for the Future

- We are not at the top of the IPv4 Price Curve: Prices will continue to rise somewhat
- /8s will continue to come to market, keeping prices reasonable
- The shortage of IPv4 addresses in APNIC region is being filled from ARIN region for now

