



# IPv6 Leadership

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North American IPv6 Task Force

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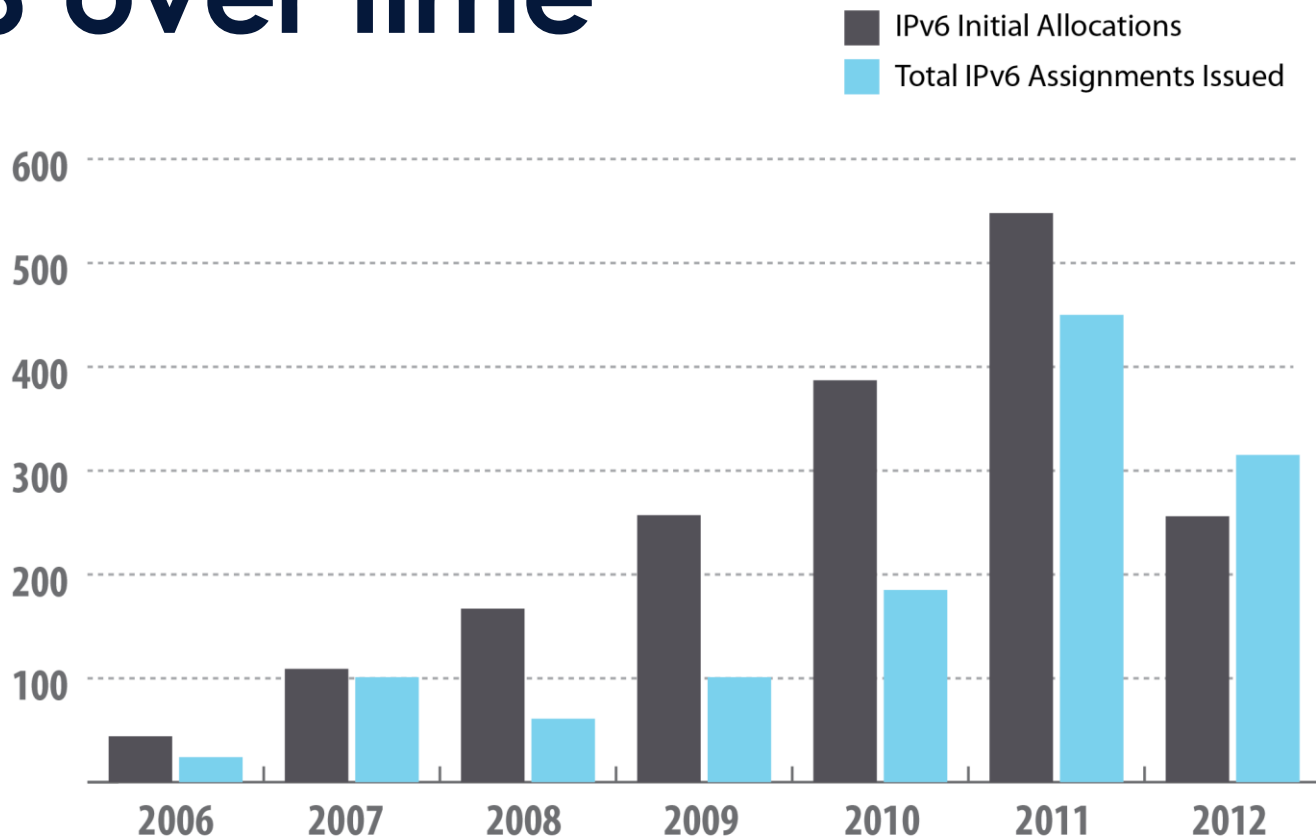
President and CEO, ARIN

# What is our victory conditions?

- **What are we trying to accomplish with IPv6?** (hint – it's not really about getting your neighbor IPv6 connectivity over his broadband connection)
- **What are the key milestones?**
  - What IPv6 events represent “game changing” circumstances for the ISP industry?

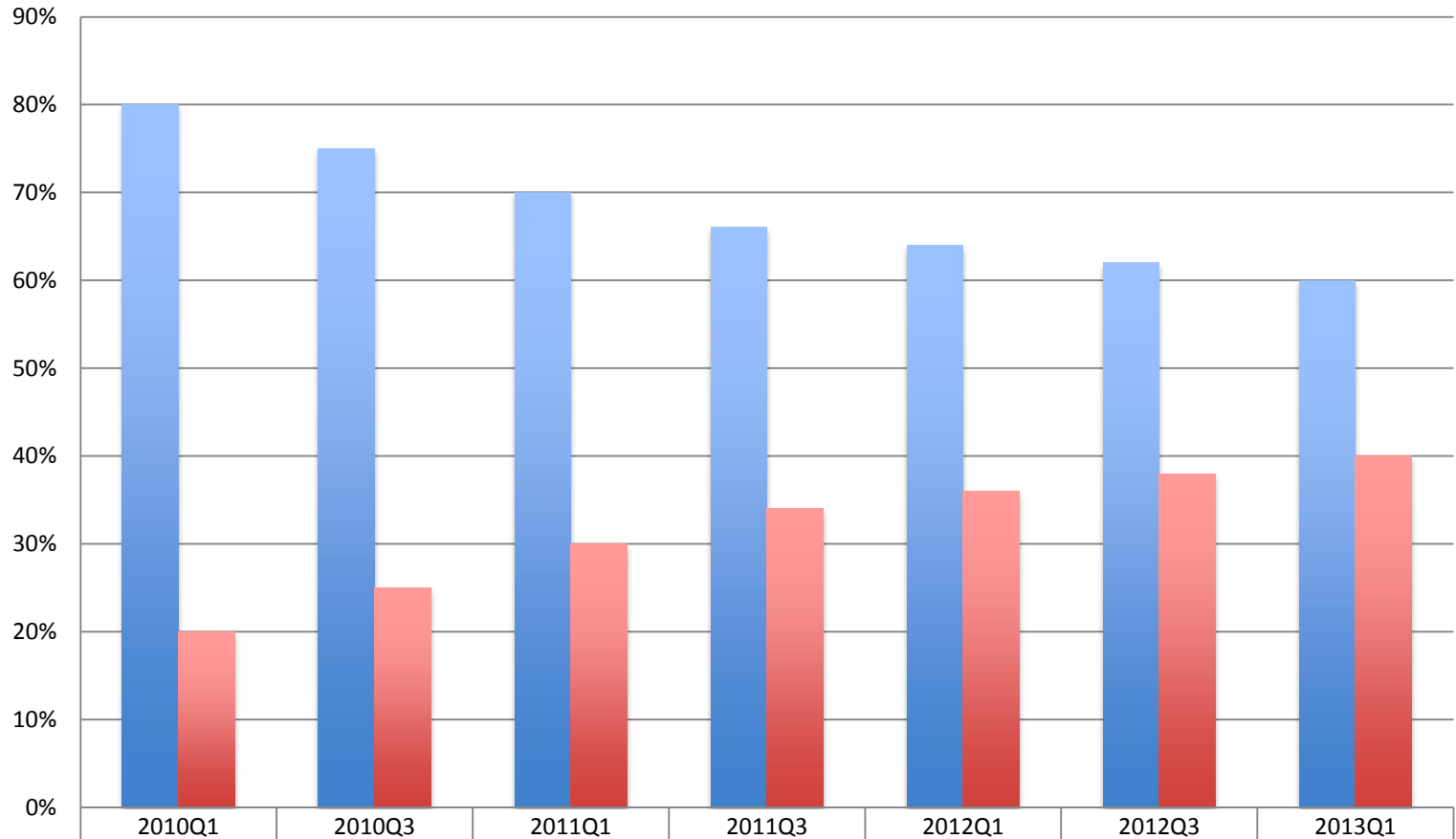


# IPv6 over time



ARIN IPv6 Allocations and Assignments

# ARIN ISP Members with IPv4 and IPv6



<span style="color: blue;">■</span> % IPv4 Only	80%	75%	70%	66%	64%	62%	60%
<span style="color: red;">■</span> % IPv4 and IPv6	20%	25%	30%	34%	36%	38%	40%



# What's the problem?

- **ISPs serve customers... and customers are not asking for IPv6!**
  - Customers don't even know "IPv6", they know and want "The Internet"
  - We can't expect ISPs to deploy something that no one is asking for...
  - Even at ARIN free pool run-out, this is unlikely to change for many Internet Service Providers, since customers will be asking for "Internet, please?" and that does not automatically mean IPV6; could mean CGN and lots of NAT...



## Why aren't customers asking for IPv6?

- **Customers are trying to “connect things to the Internet”**
  - Public websites
  - Servers (email, other)
  - Internal Network
  - Desktops
- **If they believe that IPv4 connectivity is “The Internet”, then that becomes reality...**



# Possible victory conditions

1. Broadband ISPs offering IPv6 connectivity to new and/or existing customers
1. Major mobile equipment makers including IPv6 support in their new handsets
1. Leading companies (e.g. Fortune 500) using IPv6 for their internal networks and desktop office wireless devices
1. Vast majority of web site content (by traffic) reachable via IPv6

# Our Victory Condition

**The vast majority of web site content  
(by traffic) reachable via IPv6**

This is the only condition which matters, as it defines the point where ISPs can substitute IPv6 connectivity for IPv4 connectivity.



## ***“The Internet is IPv4 and IPv6”***

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- **Do not allow vendors/partners/customers/press/family members/talking pets/aliens/etc. to say otherwise...**
- **Challenge those who claim to be putting content on the Internet who aren't...**
- **This also drives requests to ISPs for IPv6 services (which helps alleviate the demand perception problem)**

**Thank You**