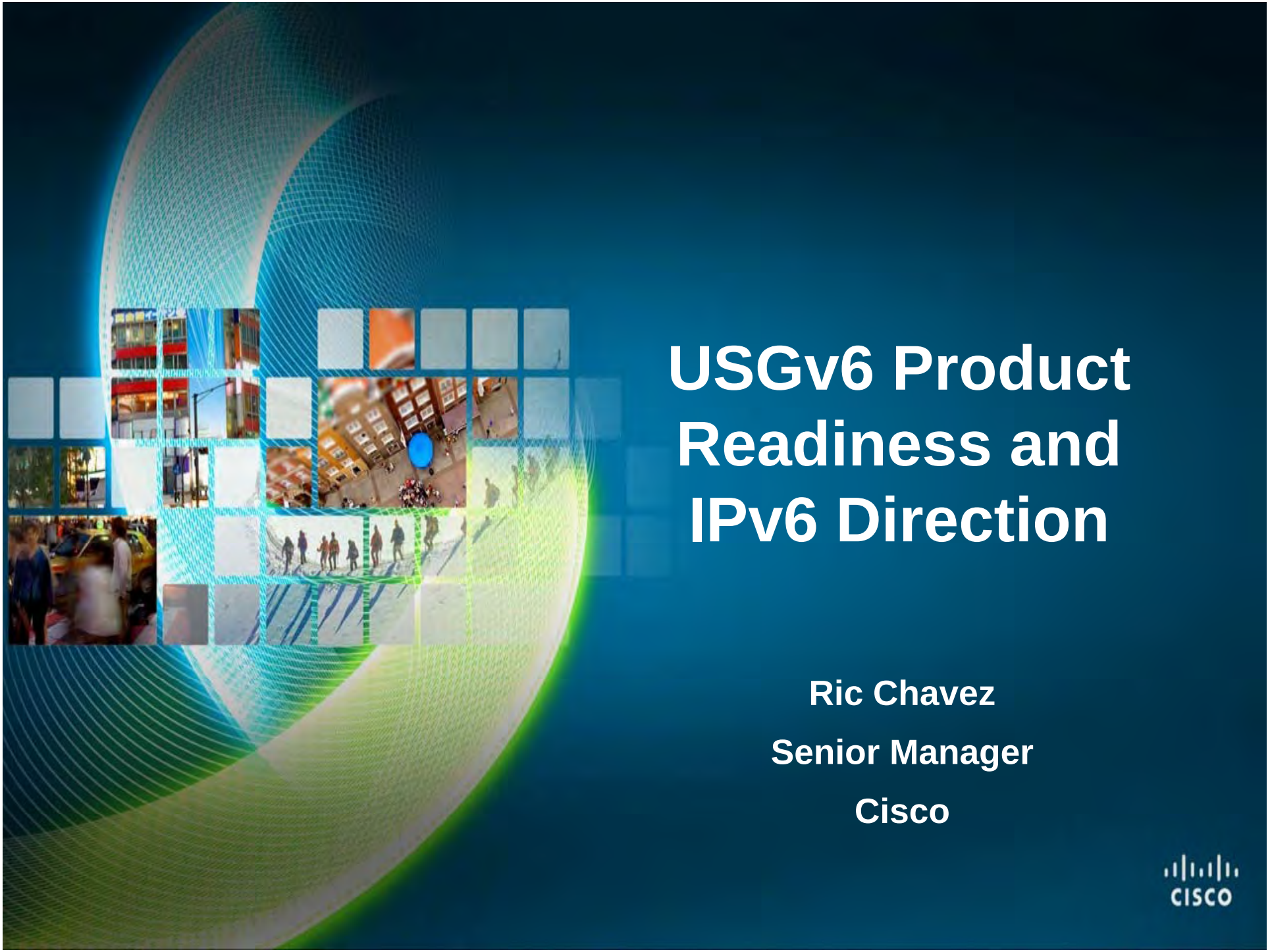


USGv6 Product Readiness and IPv6 Direction

Ric Chavez

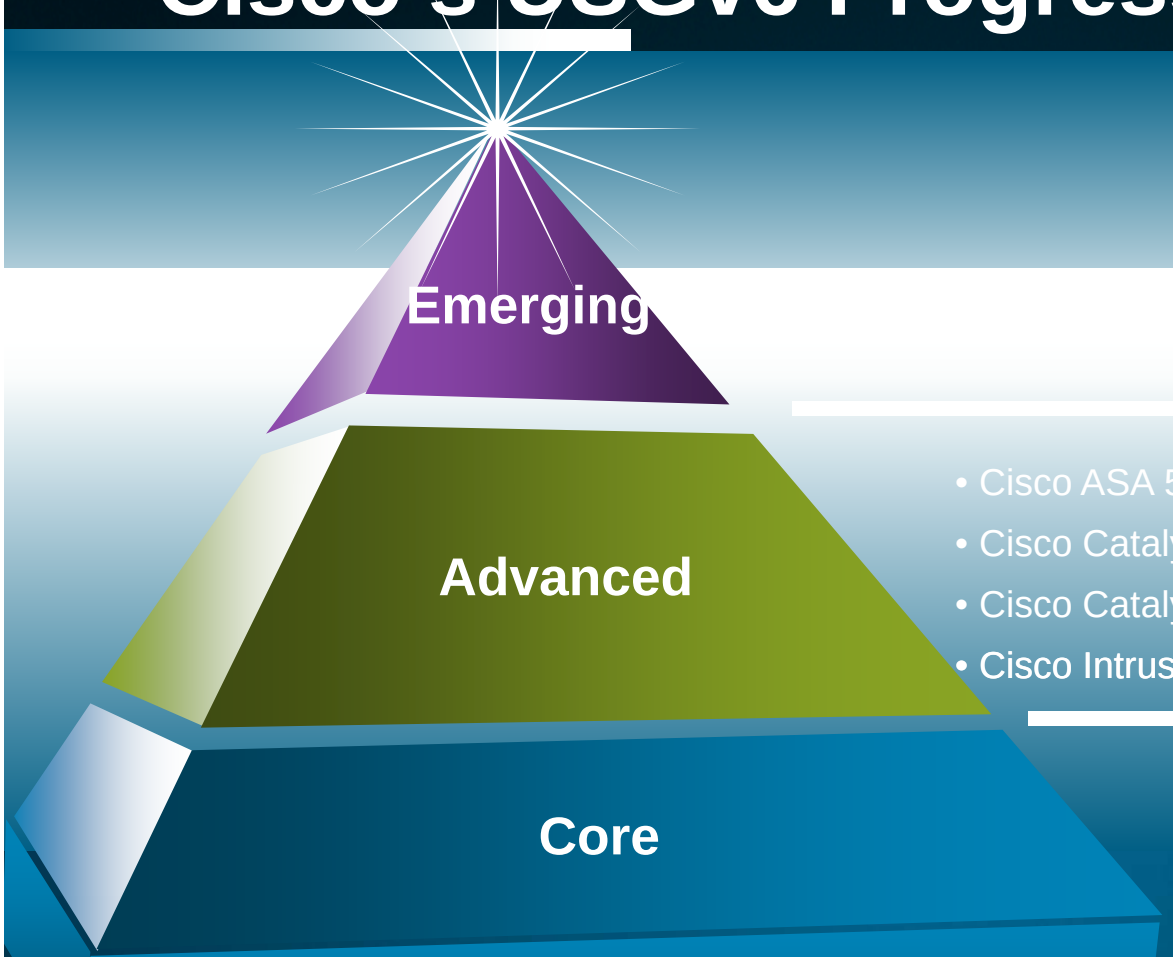
Senior Manager

Cisco

Cisco's Long-Standing IPv6 Support

- IPv6 support in Cisco IOS first announced back in 2001
- Participant in the original Moonv6 initiative
- Successfully supported the original stand-alone DoD IPv6 Certification Program
- Supporting today the DoD's UCR program that incorporates IPv6 requirements
- Many products on the IPv6 Ready Logo program list
- IPv6 Forum Gold Certification to Cisco's training programs
- Prominently involved in the NIST USGv6 program
- Actively working with the RIPE-501 community

Cisco's USGv6 Progress



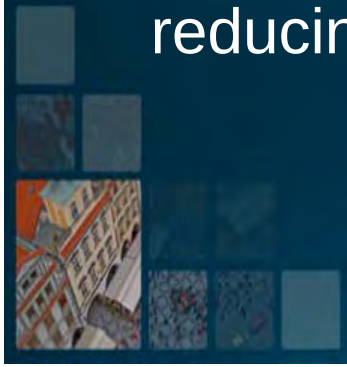
- Cisco ASA 5500 Series Security Adaptive Appliance
- Cisco Catalyst 6500 Series Firewall Service Module
- Cisco Catalyst 7600 Series Firewall Service Module
- Cisco Intrusion Prevention System (IPS) 4200

- Cisco 1800 Series Routers
- Cisco 2800 Series Routers
- Cisco 3800 Series Routers
- Cisco 1900 Series Routers
- Cisco 2900 Series Routers
- Cisco 3900 Series Routers

- Cisco Catalyst 3560 (X,G,E) Series switches, CBS 30XX series blades
- Cisco Catalyst 3750 (X,G,E) Series switches, CBS 31XX series blades
- Cisco Catalyst 4500 Series Switches
- Cisco Catalyst 6500 Series Switches
- Cisco Catalyst 7600 Series Routers
- Cisco MDS 91xx, 92xx, 95xx Series Switchs

IPv6 NAT 64 Support on ASR 1000

Allows organizations to de-couple the migration of endpoints and applications to IPv6, reducing the need to force coordination in IPv6 plans between the desktop, network, and application IT teams within an organization. It could also allow a delay in conversion of servers and applications to support IPv6 until they are upgraded for other reasons, thus reducing the specific costs associated with supporting IPv6.



“Why Don’t All Your Products Support IPv6 Now?”

- Vendors MUST continue to add new feature requests while making the internal software and hardware changes to support IPv6
  - With the same number of resources
- Hardware re-spins, if necessary, increase time to market
- Product Development Cycle Typically 12 – 18 months
  - 1. Requirements 2. Architecture 3. Design 4. Development (scoping, resource identification and commitment, functional specs, sw / hw development, unit testing) 5. QA 6. Ship
- Supporting multiple IPv6 certification efforts – NIST USGv6, DoD UCR, IPv6 Ready Logo, RIPE-501

IPv6 Direction and Strategy

John Chambers on Cisco IPv6 Strategy

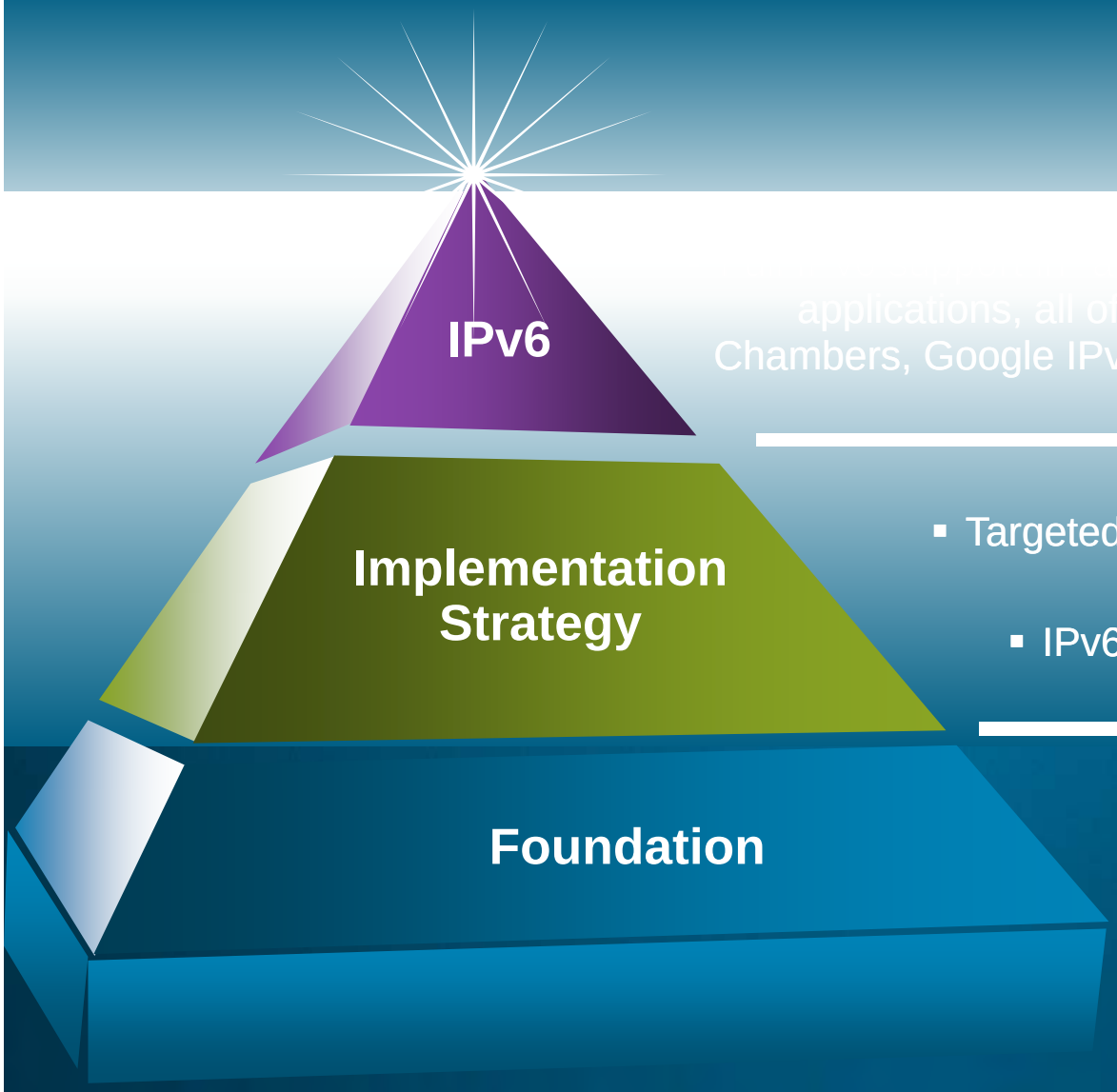
Google's 2010 IPv6 developers conference

"…if we don't overcome the challenges of IPv4 (...) we will slow down the growth of the Internet and loose momentum as an industry "

"IPv6 is important to all of us (…) to everyone around the world, It is crucial to our ability to tie together everyone and every device."

"At Cisco we are commited architecturally to IPv6 across the board: All of our devices, all of our applications and all of our services" .

Reaching Functional Parity



applications, all of our services" – John Chambers, Google IPv6 Conference, June 2010

- Targeted development based on deployment models
- IPv6 by Default in new development

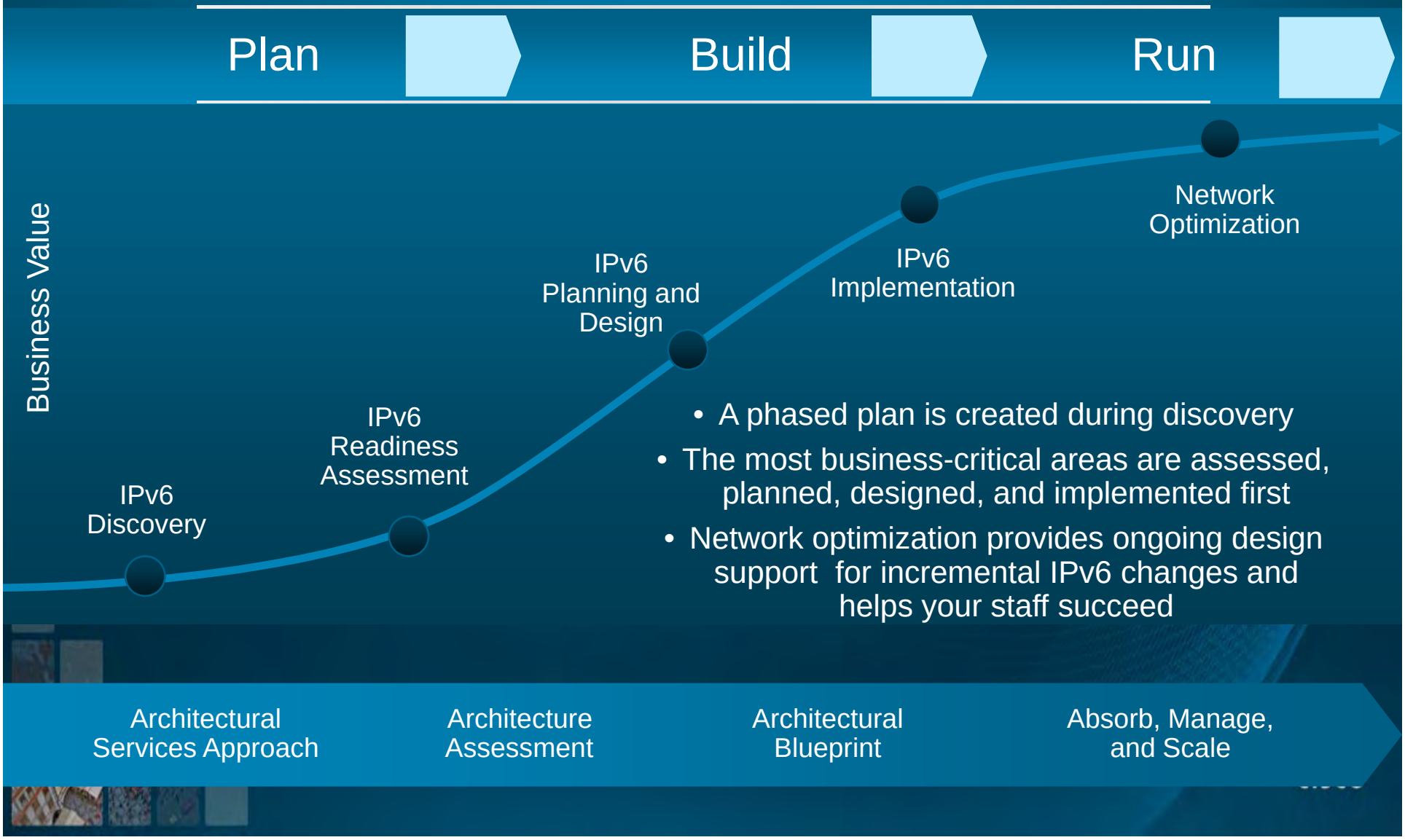
- IPv6 thought leadership, "early-adopter" product development and standardization

CISCO

A Phased Approach to IPv6 Adoption

Addressing Critical Areas in Priority Order

Cisco Services Can Help



Thank You!!