



Reimagining the Internet for the Future 2.0





- Almost 3 billion people do not have Internet access.
- How do we connect the next billion?



Cisco Innovations

A new economic paradigm



Silicon

3.2Tbps to 25.6Tbps



Software

Modern Cloud-enhanced



Optics

100GbE ZR 400GbE ZR/OpenZR+



DI BINT-43

Systems

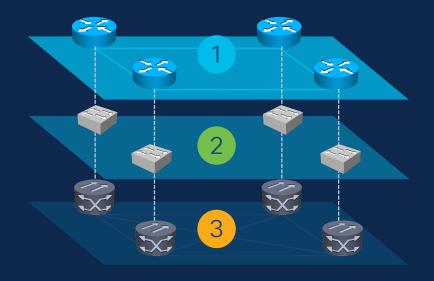
100G

400G



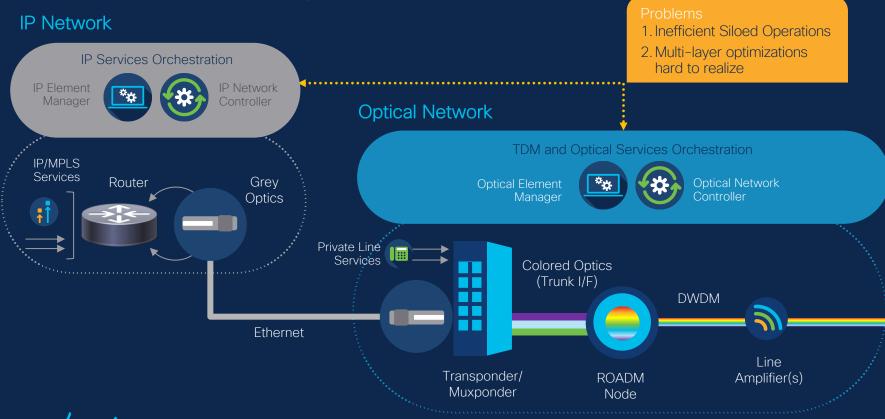
Traditional Layers in Transport Networks

- 1 IP Routing
- 2 OTN
- 3 Optical (ROADMs)





Complex Multi-layer Architecture





- Market-leading SiPh expertise and manufacturing
- Pluggable and onboard optics for Webscale and enterprise datacenters
- Innovation to scale and lower cost per bit



- Complete portfolio of highspeed coherent pluggables
- Silicon for discrete photonic functions
- Innovations for high bit rate optics to lower cost per bit



The Rise of Open Optical Systems

Any optic, any port, any line system

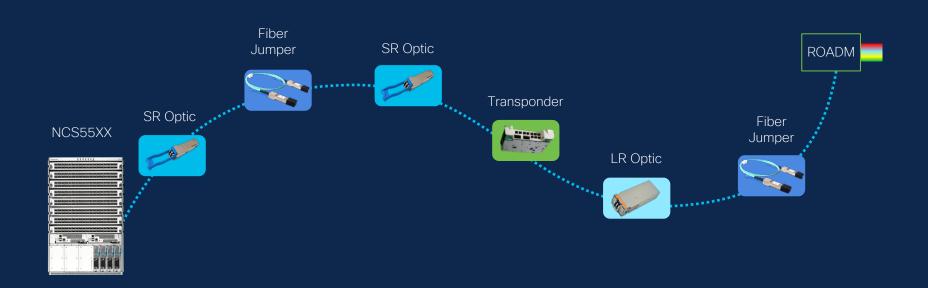
to reverse a history of...

- Lack of interoperability
- Limited choice and control
- Cost inflation



Twilight of Transponders

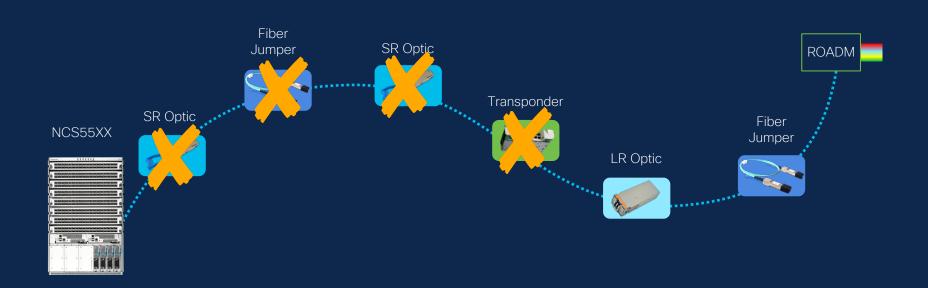
The Past





Twilight of Transponders

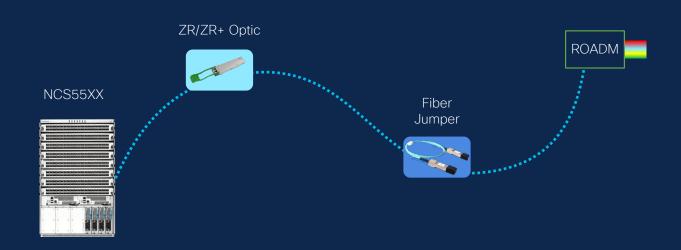
The Past





Twilight of Transponders

The Future





Routed Optical Networking

- Modernized operations and procurement
- Interoperability and standardization
- Efficiency gains



Savings		
35%	57%	46%
CapEx	OpEx	TCO



Source: ACG Research

Mass-scale Systems

100G | 400G



NCS 5500





NCS 500



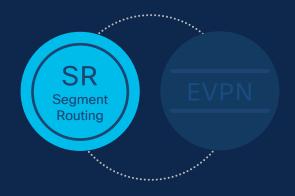
ZR/Open ZR⁺ optics IOS XR

Segment Routing

EVPN



Enriching the Networking Stack



- Advanced Performance
 Monitoring
 SR performance measurement
 toolkit (delay, loss, liveness)
- Circuit Emulation
 Circuit-style SR policies
- Point-to-Multipoint Transport Delivery with Tree-SID



Enriching the Networking Stack



- Better Service Resiliency Dual node redundancy, georedundant, fast convergence
- Point-to-multipoint Service Delivery E-TREE services delivery with EVPN



Network Automation

Visibility | Action | Insights



Software Defined



Multi-vendor + Multi-domain



Autonomous



Scalable and Adaptive



Cloud Scale



Customer Panel



cisco live!



Thank you





