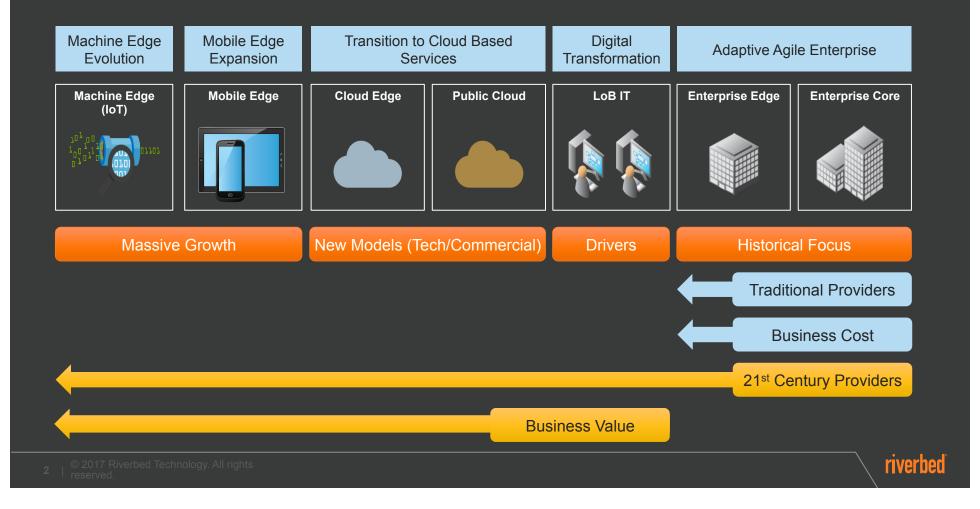
Evolution of connectivity in the era of cloud

riverbed

Phil Harris SVP and GM SP Market Vertical Riverbed Technology

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Transformational Services Span The Business & Technology Landscape



21st Century Service Providers Need to Shift Focus to Delivery of Business Transformational Services

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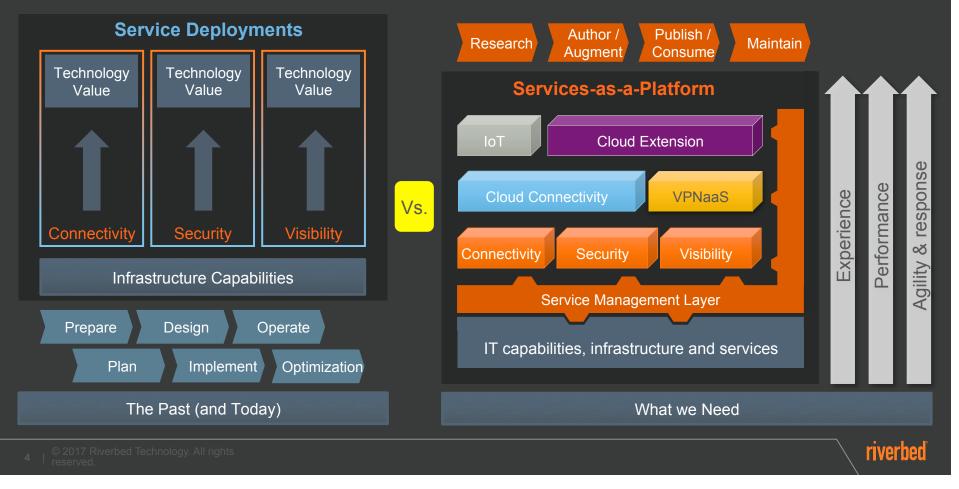
Business Transformation Services



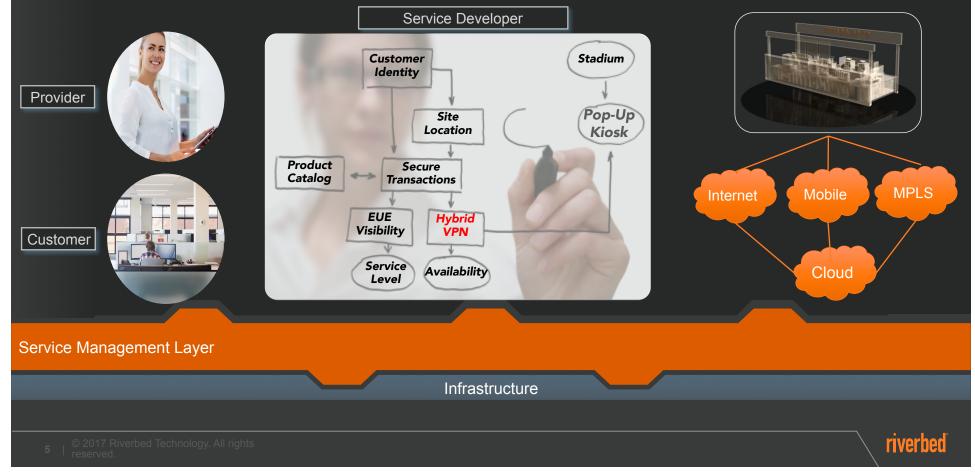


A Shift in Focus and Opportunity

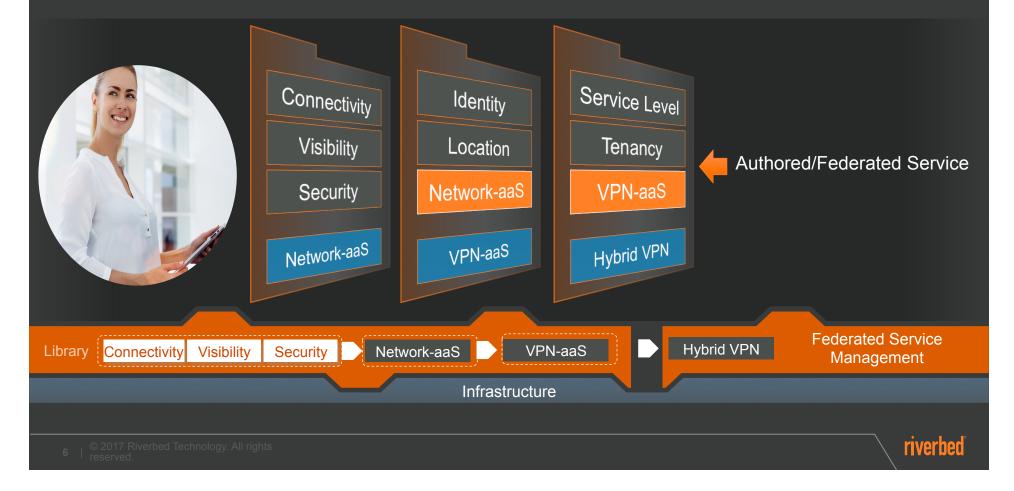
Abstraction to Enable Service-Centricity



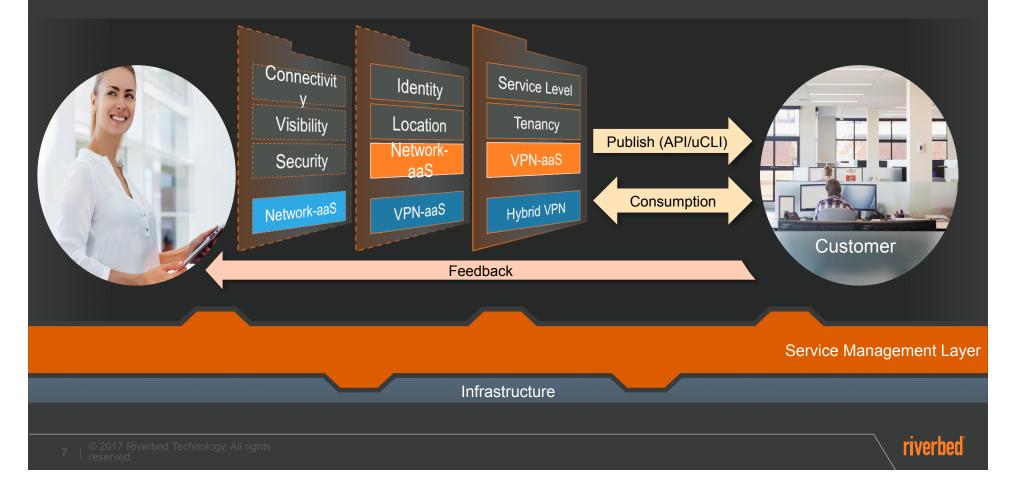
Partnering to Develop Business Transformationstem and a Platform Approach....



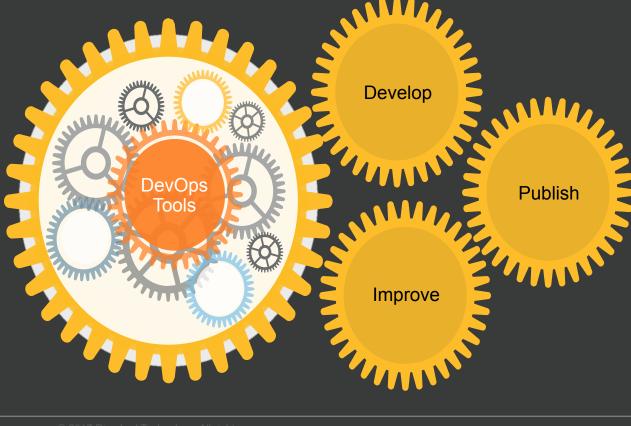
Turning Services into building blocks for innovation Authoring and Augmenting Including Federation



Turning Services into building blocks for innovation Realization of customer feedback in days and not on month



It's not only new technology but also methodology and tools Bringing cloud-like agility to Service Providers



DevOps Toolset to enable rapid service design, deployment, and optimization

Service Definition can be done by business analysts/ product managers, not CCIEs

Designed for re-usability

Customer experience drives outcomes

Orange Business Services: your worldwide digital transformation partner

Orange Business Services



We are more than a global

Professional services provider

telecommunications services:

leader in corporate

 \oslash

Philippe Lannes

Network Solutions

Head of Business Development North America



The largest MPLS VPN in the world



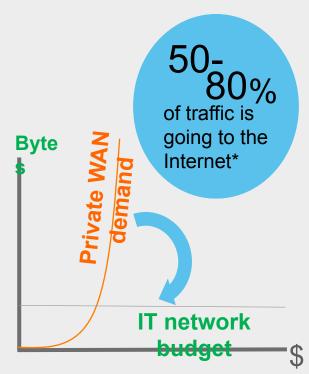
- 328,000+ sites
- 25,000 customers
- 3,750 MNCs
- IP MPLS VPN solutions in 180+ countries including challenging areas like Russia, China and Africa

Our customers' Cloud Service challenges



Capacity gap

"We need more network bandwidth to keep pace with digital demand at an affordable cost."

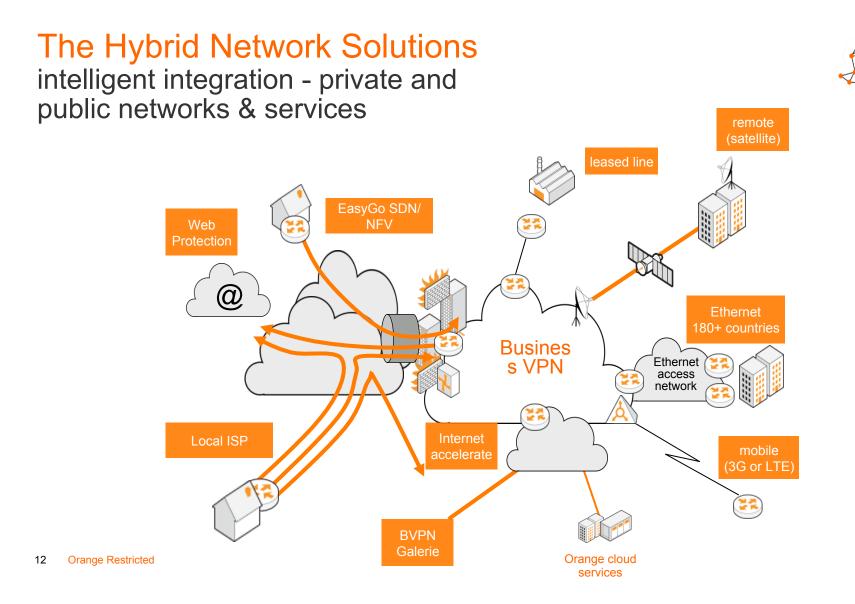


Poor end-user experiences

"Our employees and customers are frustrated by slow, unreliable cloud application experiences."

Security risks

"My attack surface has increased in the cloud and mobile era. I no longer have a secure network perimeter" "Orange customer and media reports



Managing complexity is not bring value: What our customers really want?

- Zero-touch deployment and automation
- Minimization of network infrastructure at remote sites
- Transport agnostic, hybrid WAN: highly available, application aware, active/active, scalable and agile:
 - intelligent application path routing
 - application visibility
 - acceleration
- Multi-tenant data, control, and orchestration with operational independence
- Pervasive security at all levels: remote sites, Data Centers and Clouds

AGILITY

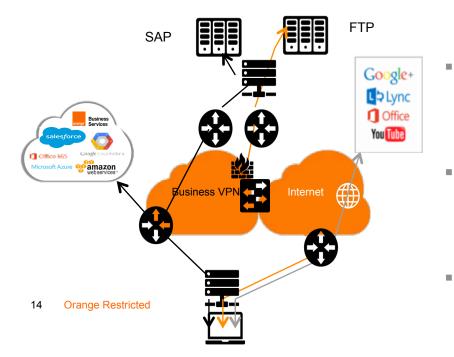


13 Orange Restricted

Our answer: the Hybrid network solution with SteelConnect State of the art SD-WAN capabilities with Riverbed



Orange is strengthening its Hybrid Networks with SteelConnect SD WAN This solution can be combined with Riverbed best of breed application performance management and optimization capabilities



Easy to deploy

Compatible for existing hybrid network infrastructure

Smart

Path selection based on application performance requirements, Full Application Visibility (SteelCentral)

Secure by design

Local or distributed breakout, integration with Orange Security portfolio

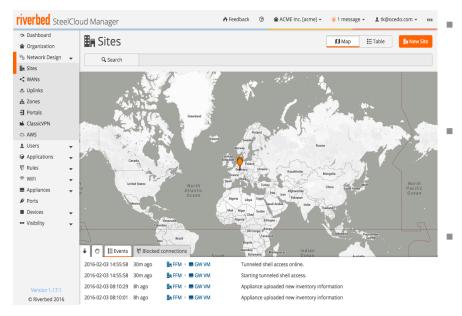
Future Proof

Evolution towards uCPE and SDN orchestration

Next step: Network as a Service with Virtualized Steelconnect Application Driven Network powered by best of breed Riverbed technology



Riverbed and Orange are working together to integrate a SteelConnect VNF in Orange uCPE and SDN PoPs This VNF will be orchestrated by Orange, to allow online ordering in Orange portal and automated zero touch deployment by H1-2018



Flexible

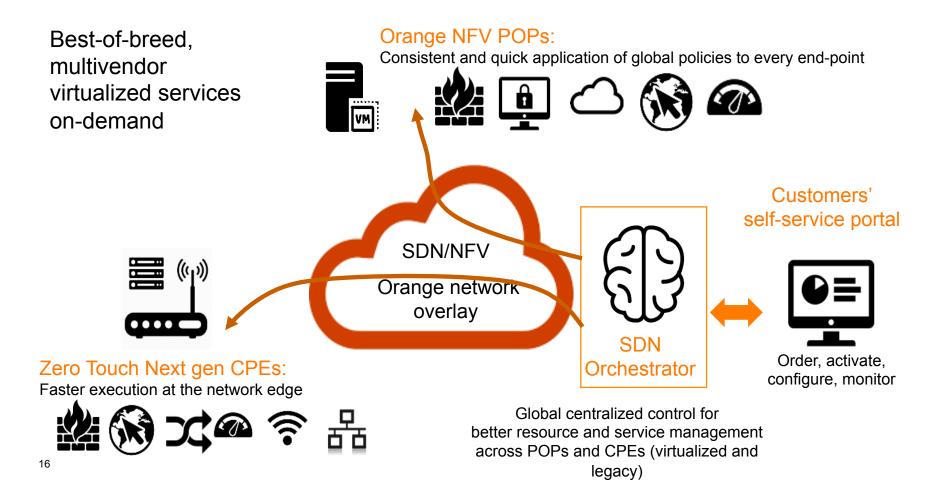
Add and change services at the branch and in Orange gateways in minutes

Simplified maintenance and cost effectiveness No need to add a new appliance to benefit from SD-WAN capabilities

Open

Combine Steelconnect and best of breed security functions on the same platform with consistent chaining

Orchestrate our customers' need With open and flexible SDN/NFV WAN strategy



The way to Network as a Service

A flexible business model to manage the transition

- Transition your Riverbed Steelhead appliances to as a service scheme (leveraging Riverbed subscription for full OPEX based model)
- Pilot the SteelConnect technology to add dynamic application routing and agile management capabilities in your network
- Upgrade your Steelhead to SteelConnect to deploy the technology in you network
- Deploy virtualized SteelConnect in Orange Cloud Galerie gateways to optimize your cloud traffic
- Migrate Steelconnect appliances to Universal CPEs to get additional flexibility in your branch office (adding new services...)

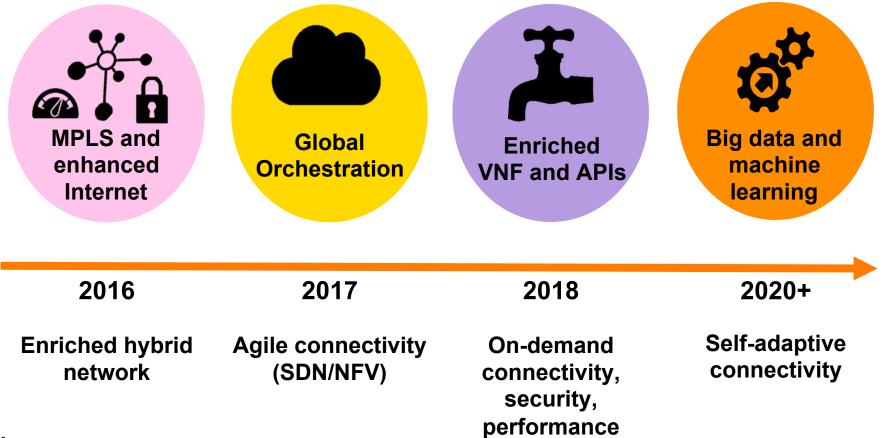
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As part of a longer Journey



Thank you!



