

The logo for SENDATE Secure DCI. It features a brown shield with a white 'S' inside, followed by the word 'SENDATE' in a large, bold, grey sans-serif font. Below this, there is an icon of a cloud with a padlock and two server racks, followed by the words 'Secure DCI' in a large, bold, black sans-serif font.

SENDATE

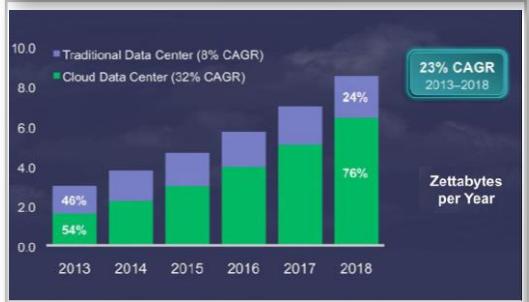
Secure DCI

Jörg-Peter Elbers, VP Advanced Technology
SENDATE Kick-Off Meeting, 17.10.2016, Berlin

Motivation

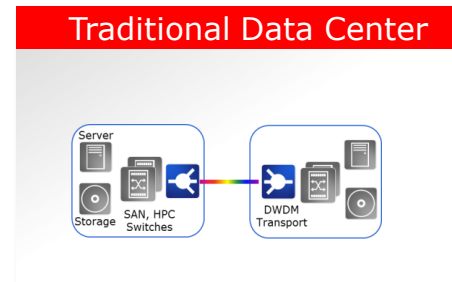
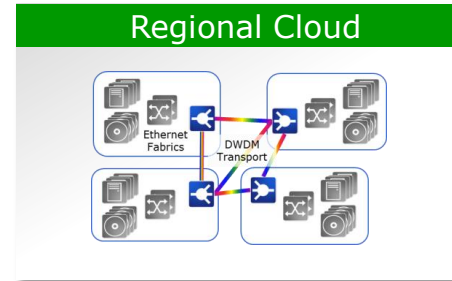
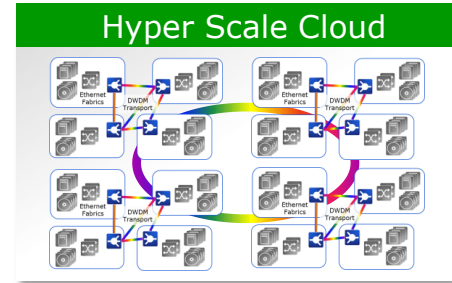
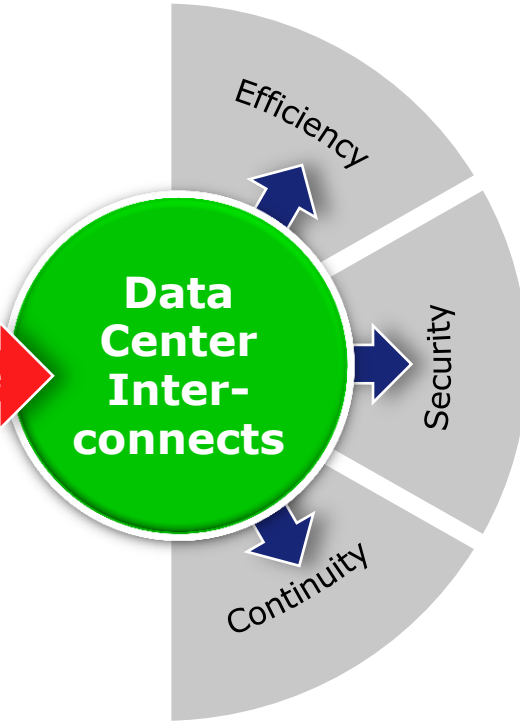


Cloud



Source: Global Cloud Index, Cisco

More

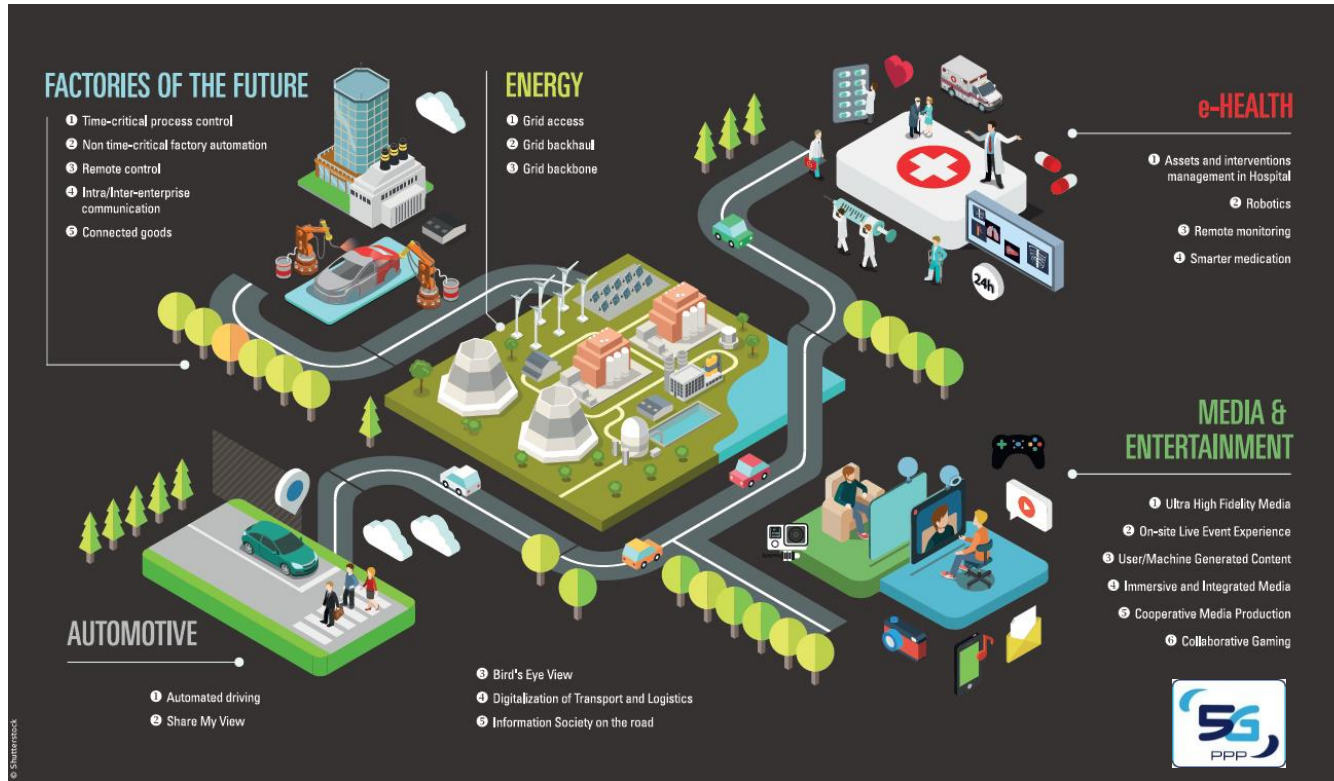


SENDATE Secure-DCI



Next-generation distributed data centers for a flexible and secure provisioning of compute, storage and networking resources to tenants and applications at scale.

Enabler for Enterprises & Vertical Markets



Secure-DCI Objectives



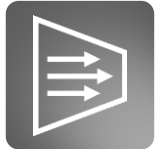
Distributed packet-optical data center fabric architecture



Open control framework for compute, storage & networking



New multi-layer switch as elementary fabric building block



New transmission schemes & optical interface technologies



Integral security concept with post-quantum secure encryption

Secure-DCI Partners



Industry



SMEs



Research Institutes



Universities





Thank You

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Our NUMBERS

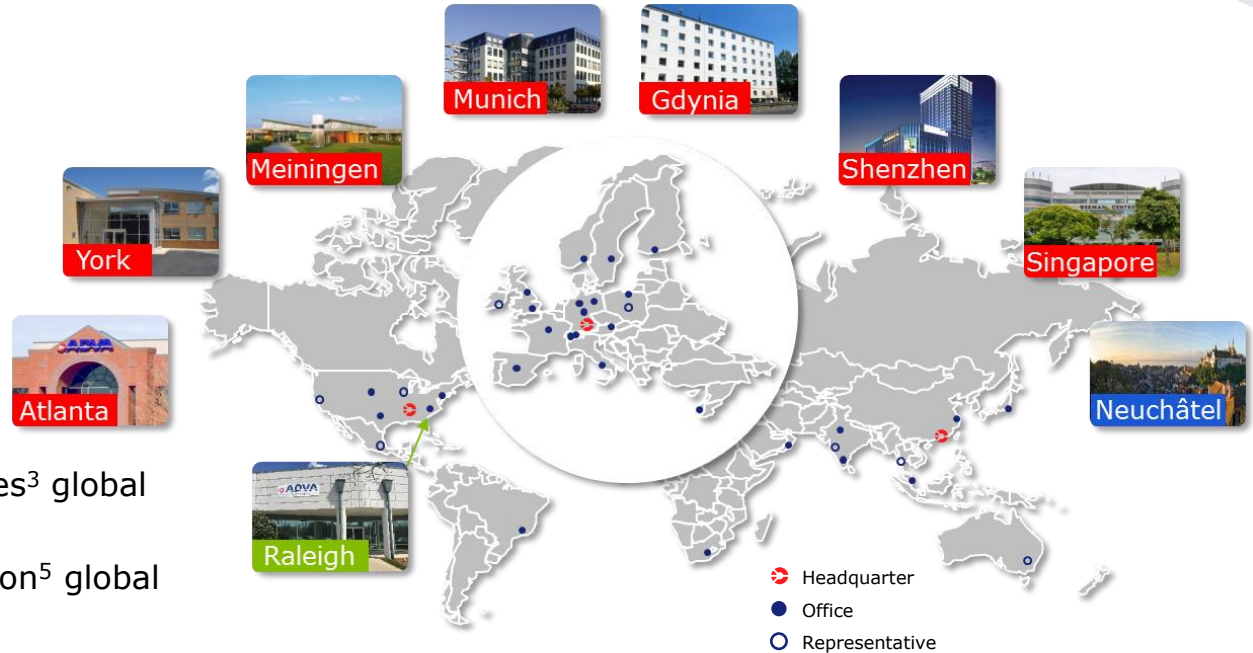
>€500 million revenue¹
1,730 employees²

Our CUSTOMERS

Hundreds of carriers
Thousands of enterprises

Our LEADERSHIP

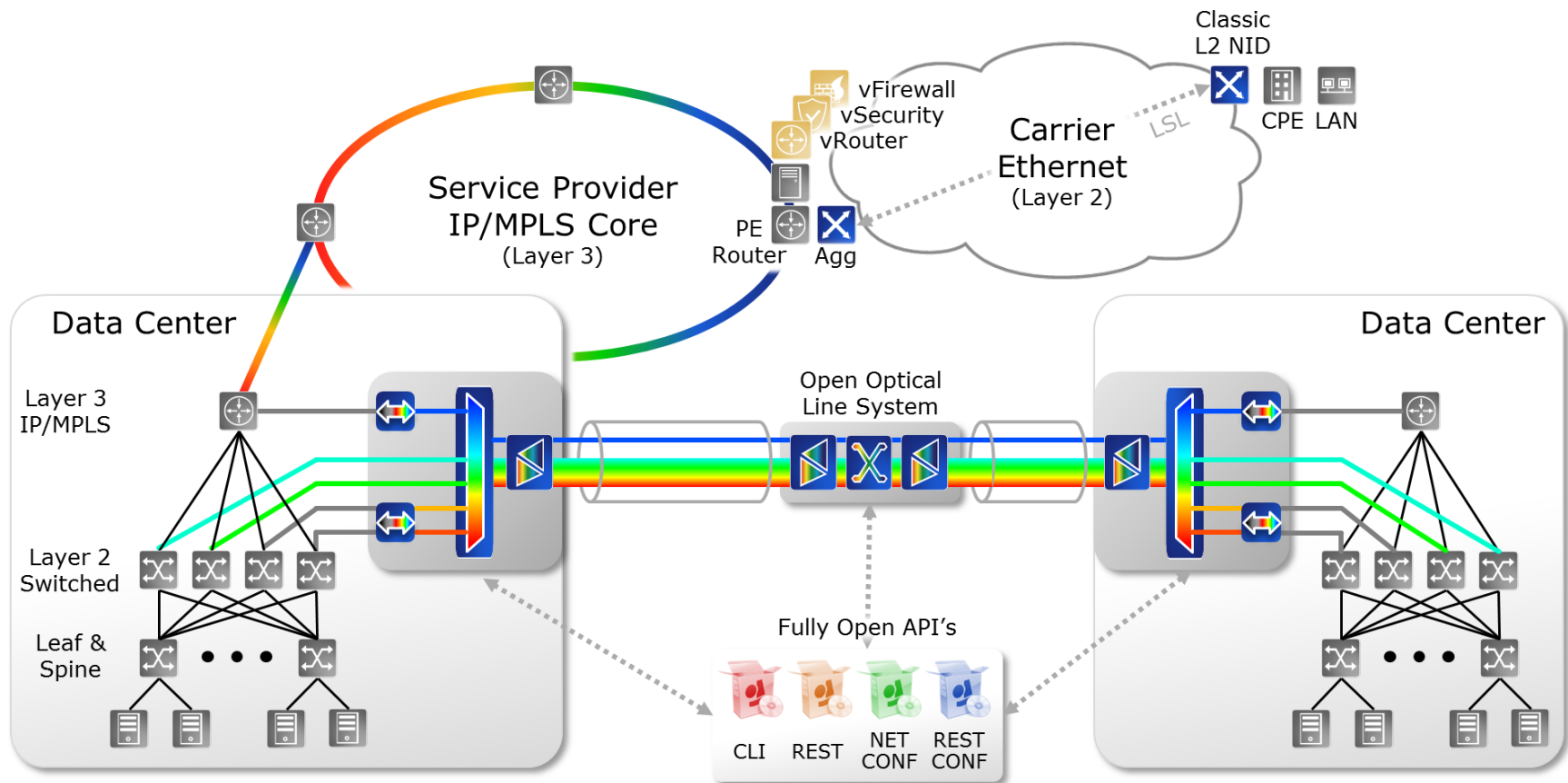
#1 Ethernet access devices³ global
#1 Enterprise DCI⁴ global
#2 Network synchronization⁵ global



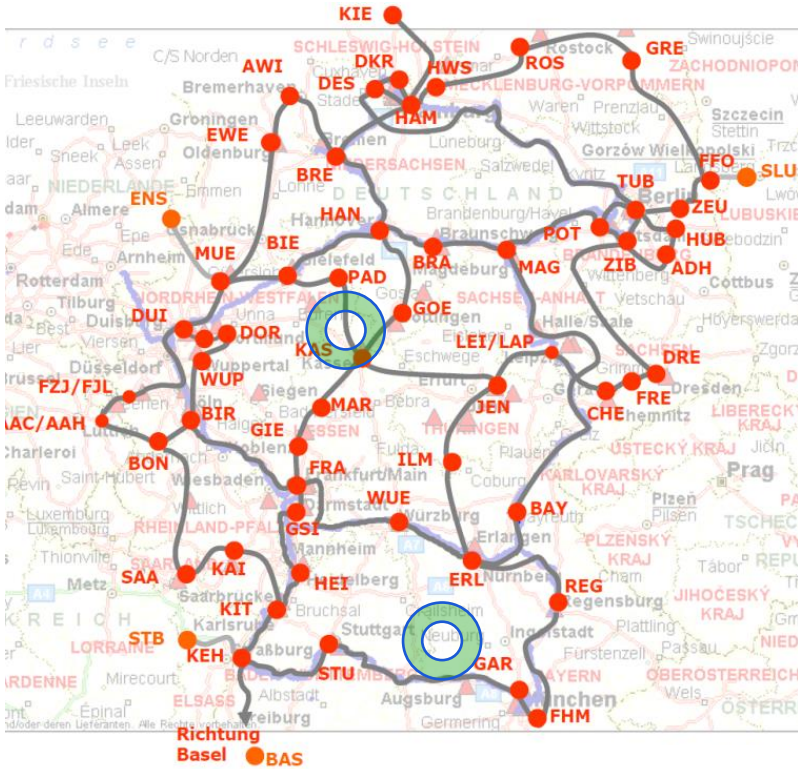
Network innovator – Speed for customers – Trusted partner

1) Analyst consensus for 2016; 2) Status June 30, 2016; 3) IHS Infonetics Research; 4) Data Center Interconnect – source: Ovum; 5) ADVA Optical Networking internal estimates

Secure-DCI Deployment Example



Secure-DCI Field Trial



- Implementation in the GWDG network in Niedersachsens
- Connection to LRZ in Garching