

Video over Ethernet

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Market Evolution

IT Convergence

Time shift

Virtualization

User tracking

Monetisation of content

4K HD

Declining margins

Speed of data transfer

Backoffice Automation

8K HD

Cloud

Security

Internet of Things

Ethernet

Quality of Broadcasting

Mobility

Best in class Customer Experience

Big Data –

Next Generation Analytics

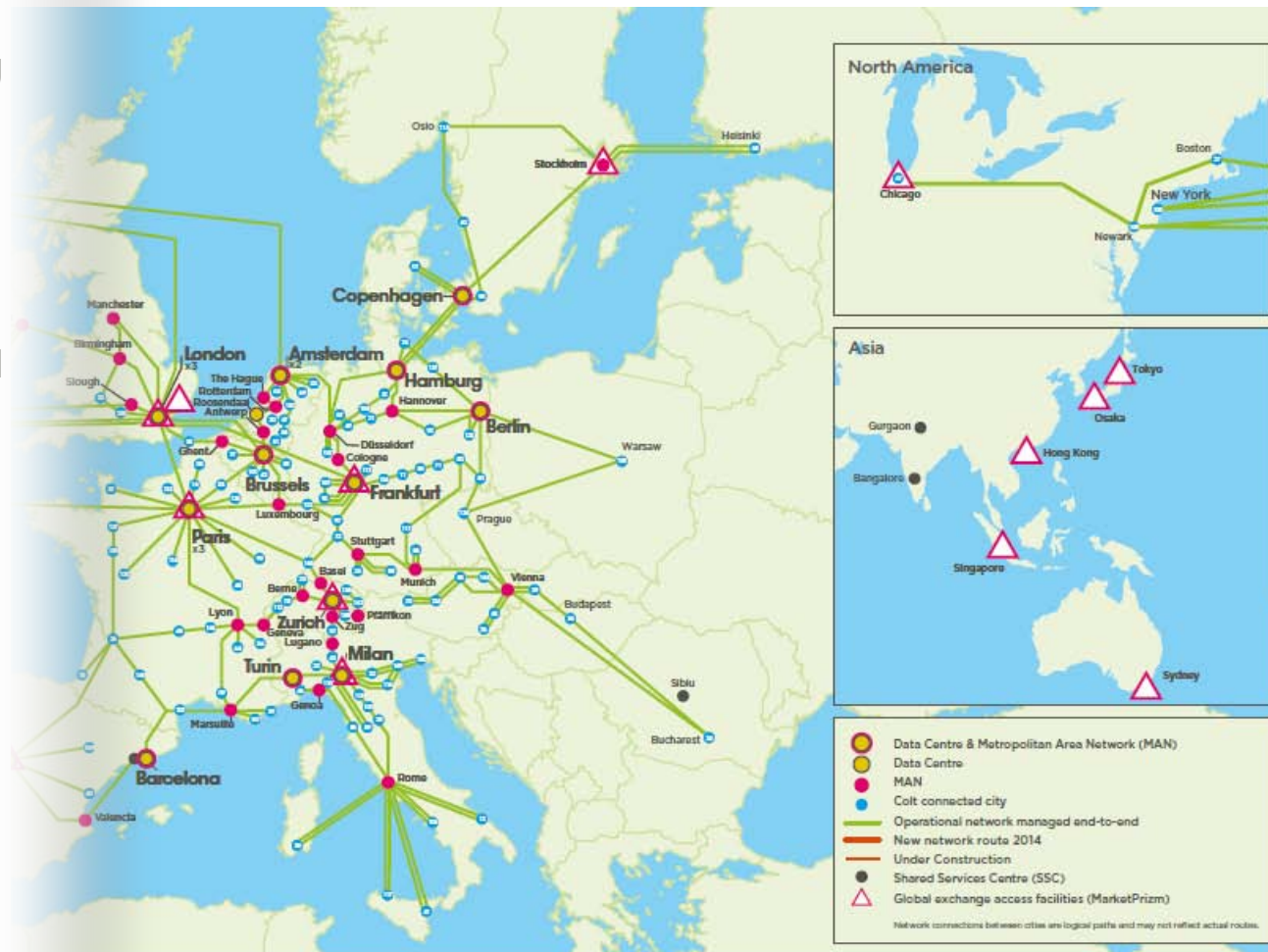
IT optimisation

Digital Workflow

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The Information Delivery Platform

- 47000 km of fibre connecting 42 cities in 23 countries
- 20 data centres in EU + 3 DCs in Asia
- 20000+ on-net buildings, 400+ third party DCs and close to 200 cities connected
- 500+ Ethernet interconnects incl. broadcast network interconnects with BT Broadcast and Hibernia Media
- Over 1000 media sector customers
- Metro Ethernet Forum, Open Networking Foundation, Network Function Virtualization ISG members



Transport Networks

Layer 3

IP

Flexible, but...

IPVPNs are a relatively low cost, flexible and scalable solution, at the expense of predictable network performance as the network is routed (even with quality of service)

Layer 2

Ethernet

Better...

Colt Carrier Ethernet* can deliver fully predictable performance (bandwidth, latency, jitter) even under fault conditions thanks to a dedicated virtual circuit path (over the shortest physical route) and reserved protection path, but doesn't scale as much as IPVPNs

Layer 1

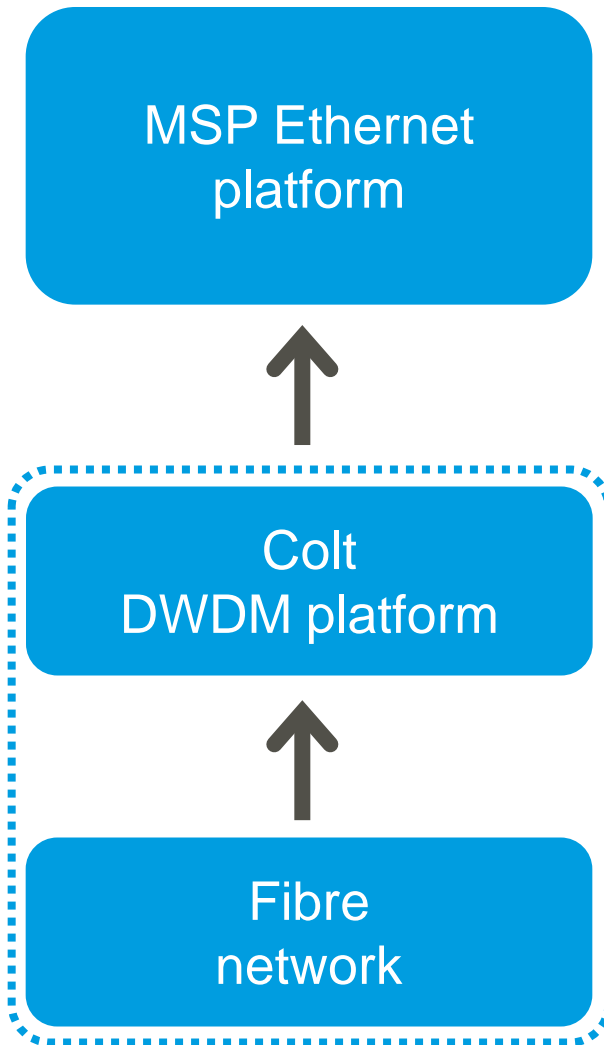
Optical

Best, but...

Not seen as commercially viable anymore for broadcast networks extending beyond the metro areas. Hard to scale beyond point-to-point links and difficult to interconnect with 3rd parties

* Not all Carrier Ethernet services use the same underlying technology, topology (e.g. rings vs single link) or deliver the same levels of performance and scale (e.g. EoSDH , L2VPNs)

Colt Platform Capabilities



Today: 2Mbps – 1Gbps Ethernet delivered over Modular Multi-Service Platform

Soon: 10Gbps Ethernet

Customer experience: Reporting, testing, etc.

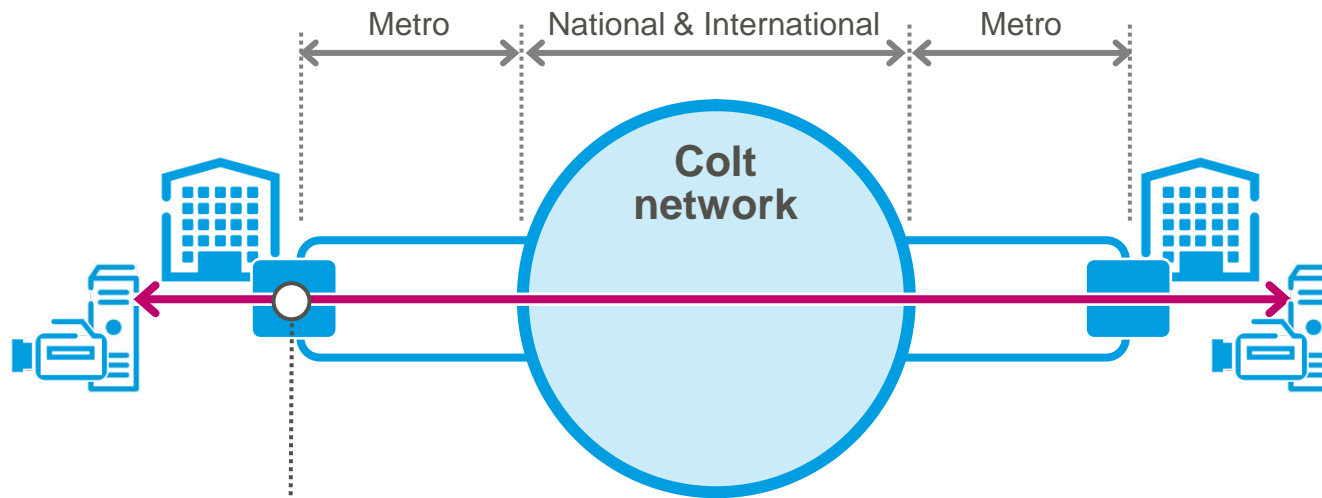
Today: High bandwidth services delivered directly over Infinera DTN: 1Gbps & 10Gbps Ethernet (2.5Gbps & 10Gbps wavelengths) as well as 100Gbps on request. Low latency paths on selected routes

Soon*: Native 100Gbps Ethernet

* Not all sub-networks/countries/regions on day one.

Long Distance Network (LDN) fibre routes

Colt Broadcast Media National and International Services

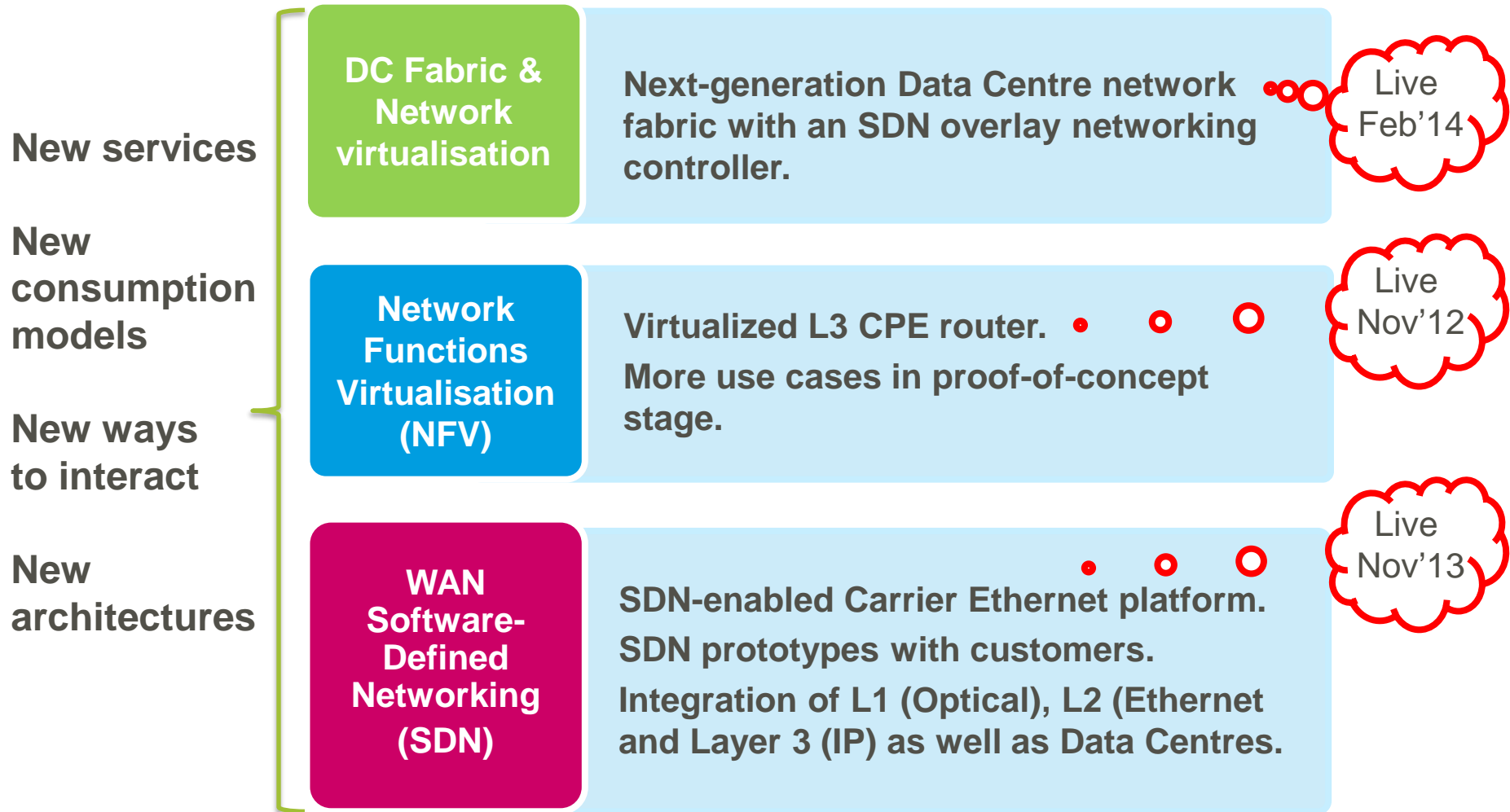


Standard compressed services

- SD-SDI and HD-SDI over Ethernet (JPEG 2000 compressed)
- ASI: Up to 8 ASI inputs*
- Uni and bidirectional services on the Nevia Ventura Platform
- UK, France, Germany, Belgium, Netherlands and Spain (other countries by request)

* Payload mapped into a 1Gbit Ethernet bearer.
Charges are per input used and the amount of Ethernet bandwidth used

Future of Networks: SDN and NFV



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 @niCRO

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Colt is the information delivery platform, enabling its customers to deliver, share, process and store their vital business information. An established leader in delivering integrated computing and network services to major organisations, mid-sized businesses and wholesale customers, Colt operates a 22-country, 43,000km network that includes metropolitan area networks in 39 major European cities with direct fibre connections into 19,000 buildings and 20 carrier neutral Colt data centres.

Colt Wins MEF Carrier Ethernet Awards for the Ninth Year

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MEF