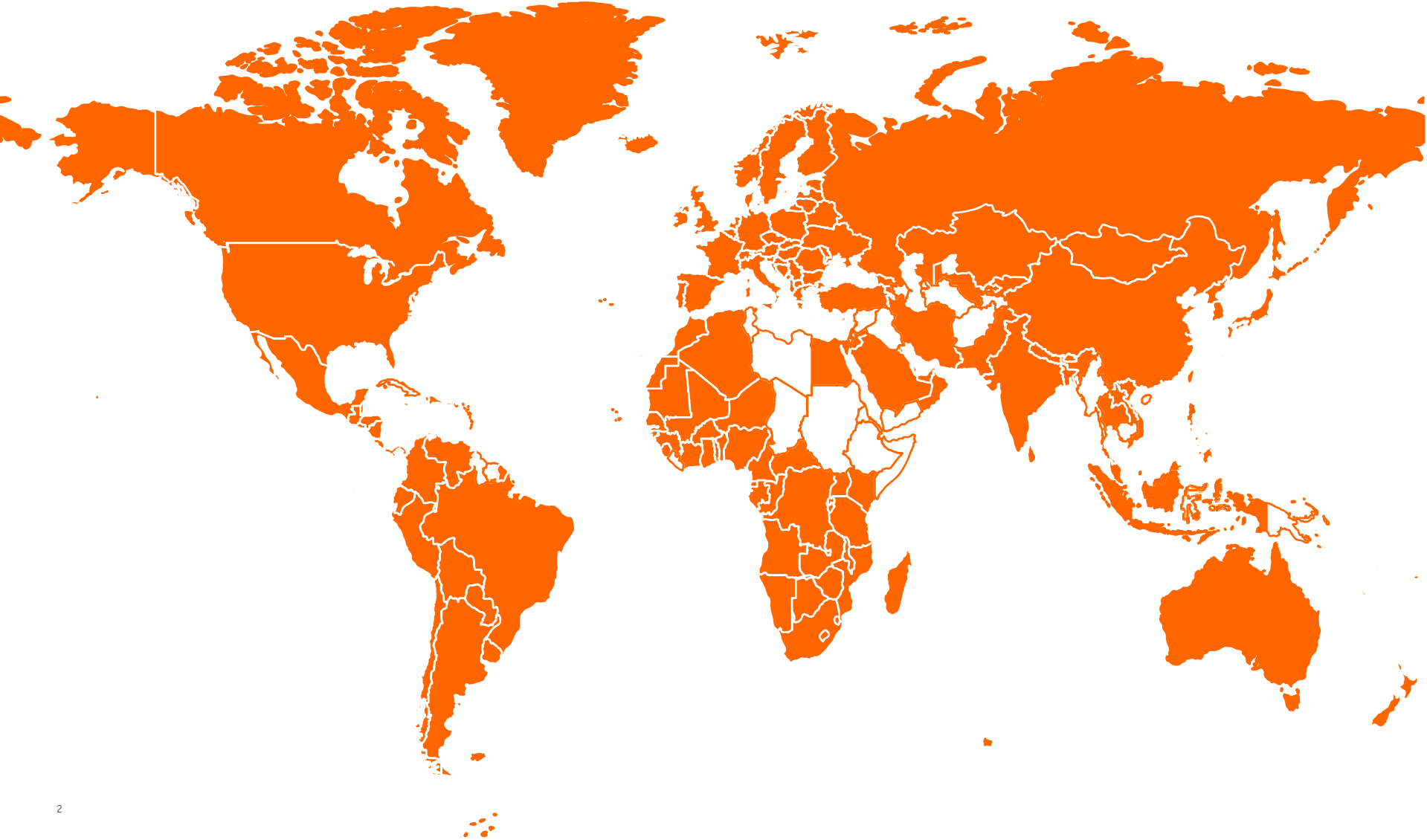


is there anything to say about the **WAN?**

Arnaud Messager – Orange Business Services



your footprint: the world



Layer 3 MPLS-VPN: key features & needs

- MPLS features

- improve QoS
- facilitate any-to-any communications
- convergence
- end-to-end SLA
- secure IP infrastructure

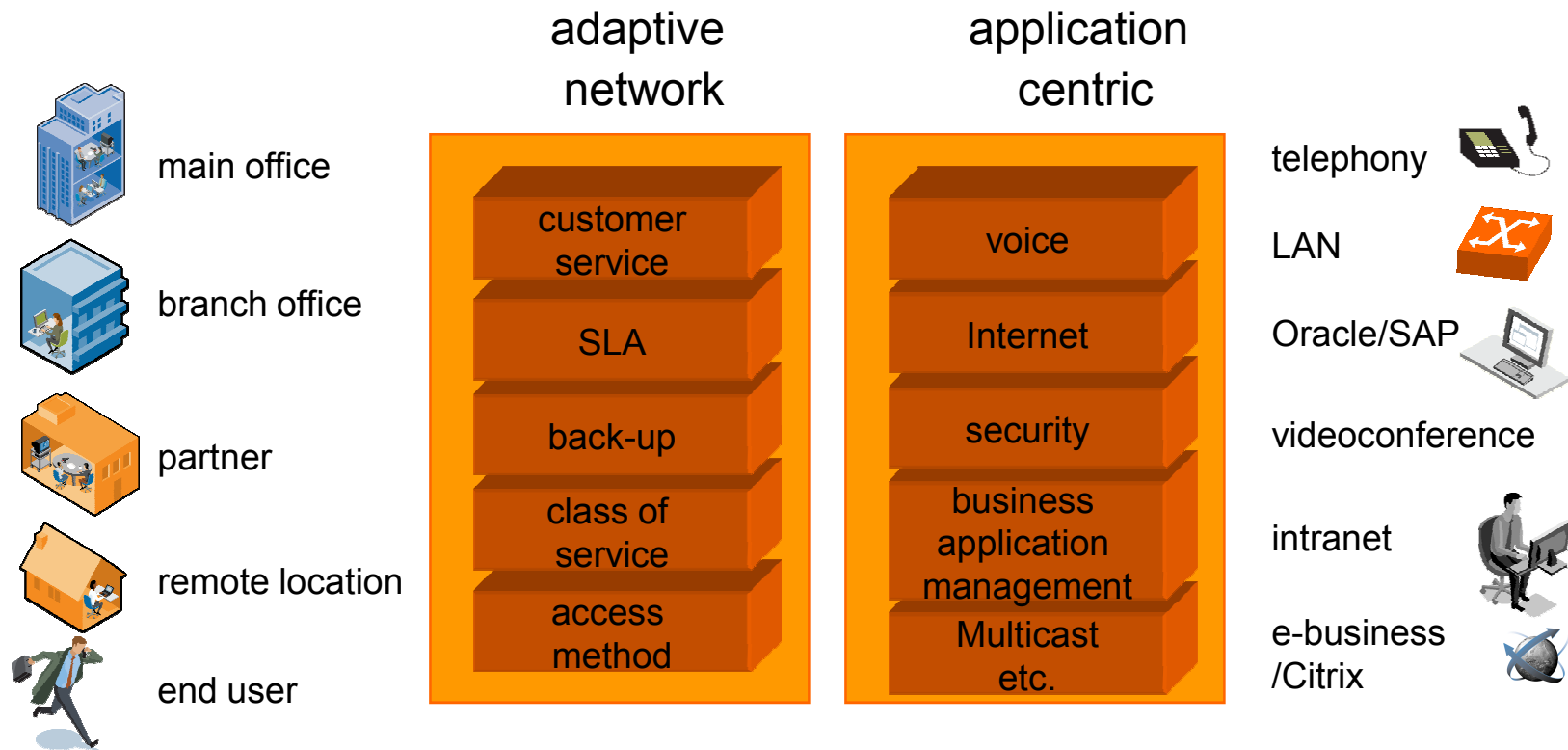
- client needs

- productivity
- cost reduction
- operational efficiency
- security
- flexibility from branch office to data centers

why MPLS based layer 3 VPN?

- for enterprise to outsource their layer 3 routing to a service provider
 - enterprise IT org. becomes architect
 - service provider handles with SLA commitment & reporting
- real-time customer applications
 - booming of RT and multimedia applications, multicast becomes an essential component of layer 3 MPLS VPN: multicast is very efficient over MPLS vs. VPLS
 - multicast in layer 3 VPN can take benefit of multicast distribution tree that ensure better usage of bandwidth

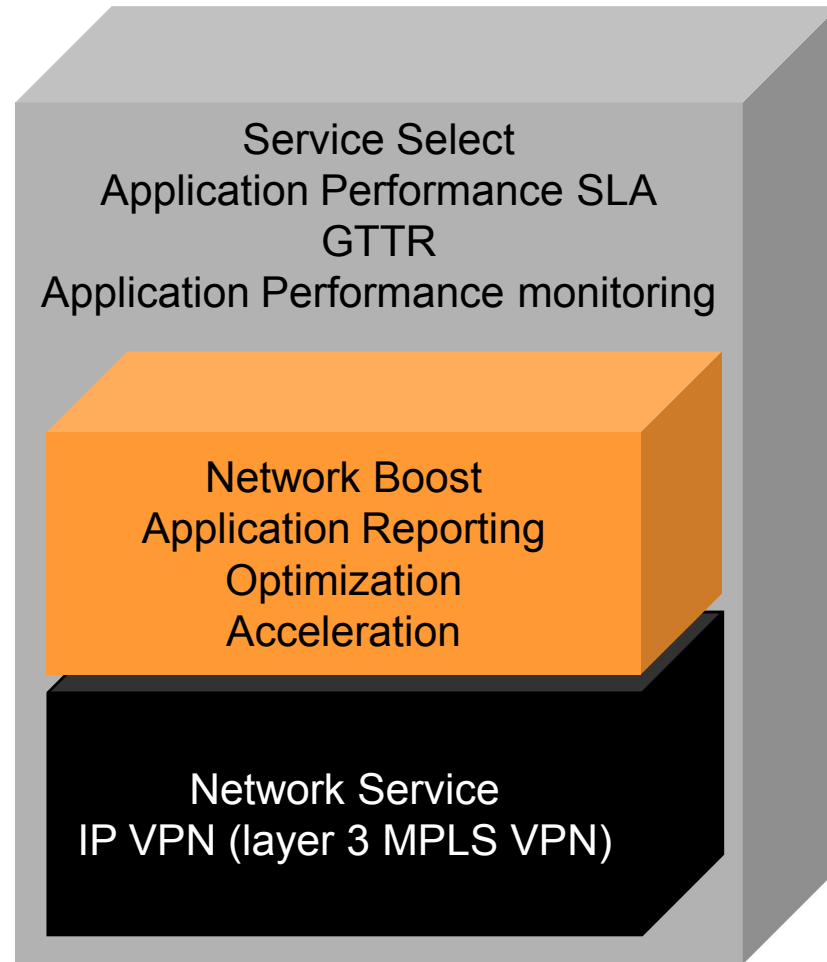
layer 3 MPLS VPN as an enabler



- adaptive network represents our ability to adapt the network SLA and access methods to specific situation, budget and requirements
- application-centric is our ability to integrate your key business processes within the network

full integration of network & application layers

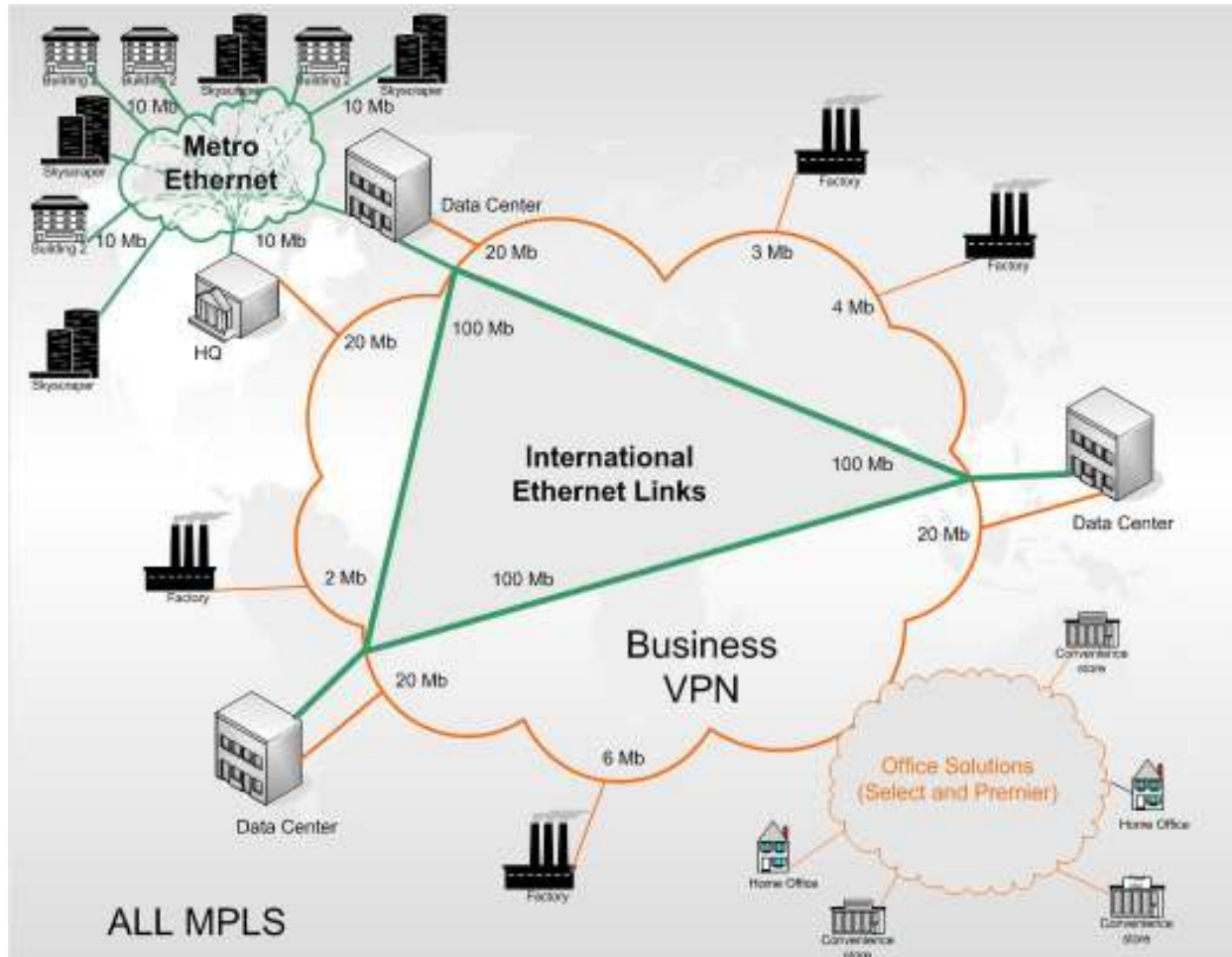
aligned GTTR
changes synchronization
end-to-end incident mgmt
global evolution planning



dominant networking technologies

- layer 3 MPLS based VPN
 - access method
 - Ethernet for scalability & speed
 - DSL, Satellite, leased lines, wireless...
 - layer 3 managed service with application aware networking
 - end to end SLA down to application layer
- layer 2 MPLS based VPN
 - point to point: VPLS
 - regional or national needs
 - multipoint to multipoint: VPLS
 - backhaul networks
 - solution for data center consolidation / virtualization
 - for IT organization looking to keep layer 3 routing in house
- Internet VPN
 - basic connectivity service

what it means in terms of network design?



to conclude

- are today's MPLS services the end of the line for at least the foreseeable future?
 - YES when new functionalities are being added
- MPLS and VPLS or VPWS complement each other
 - mostly relying on ... MPLS

together we can do more

