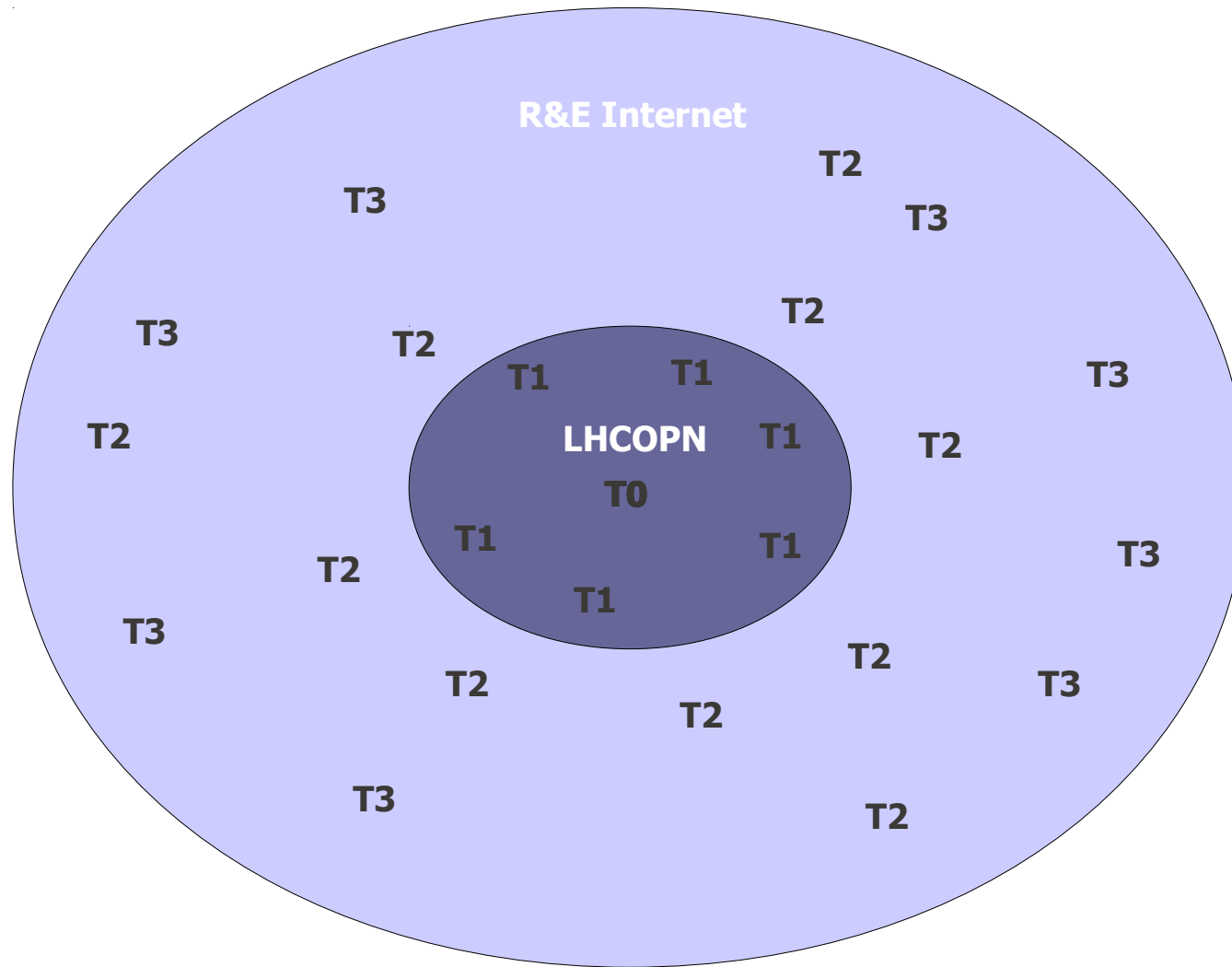


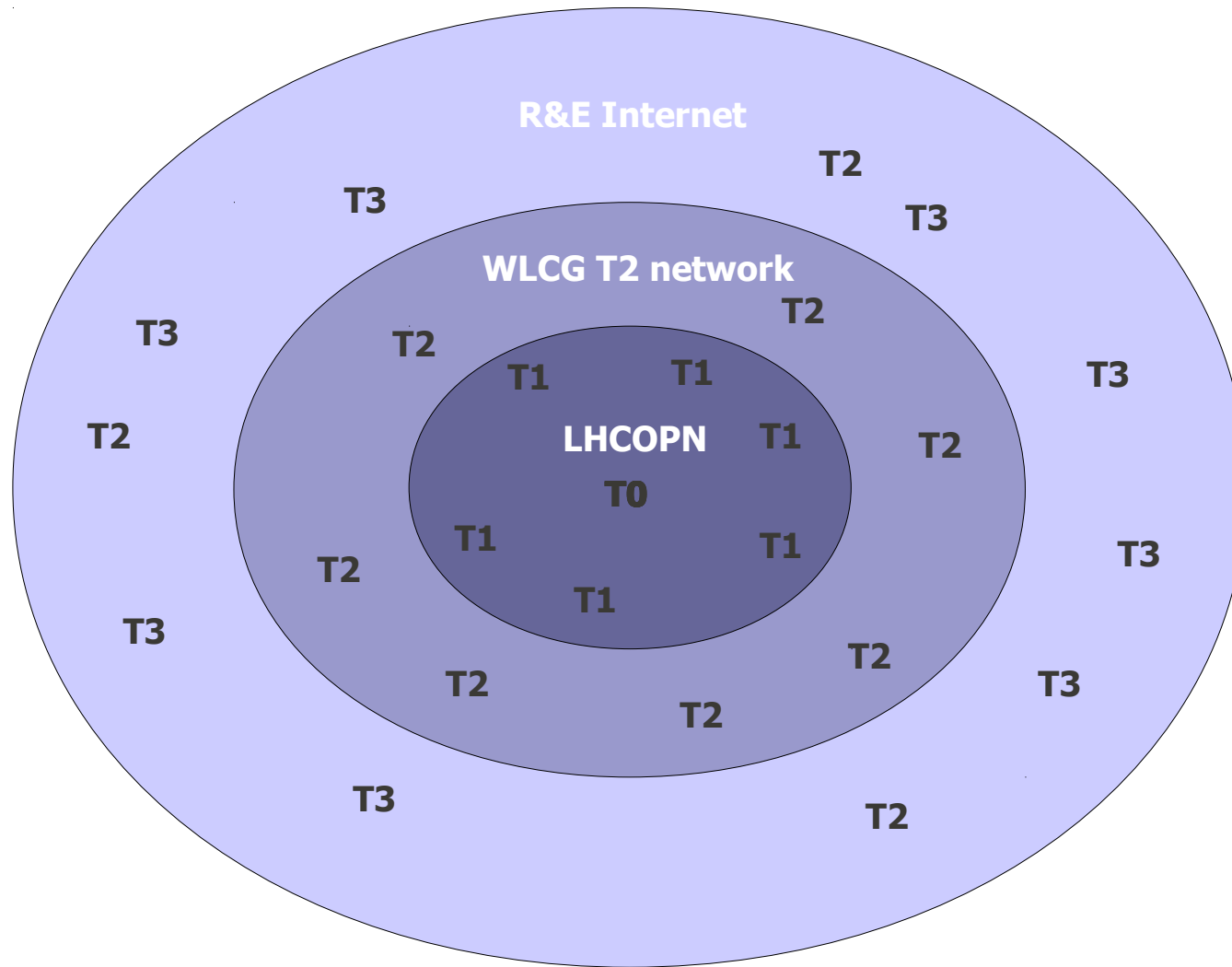
T2s connectivity



WLCG connectivity - today



WLCG connectivity - tomorrow

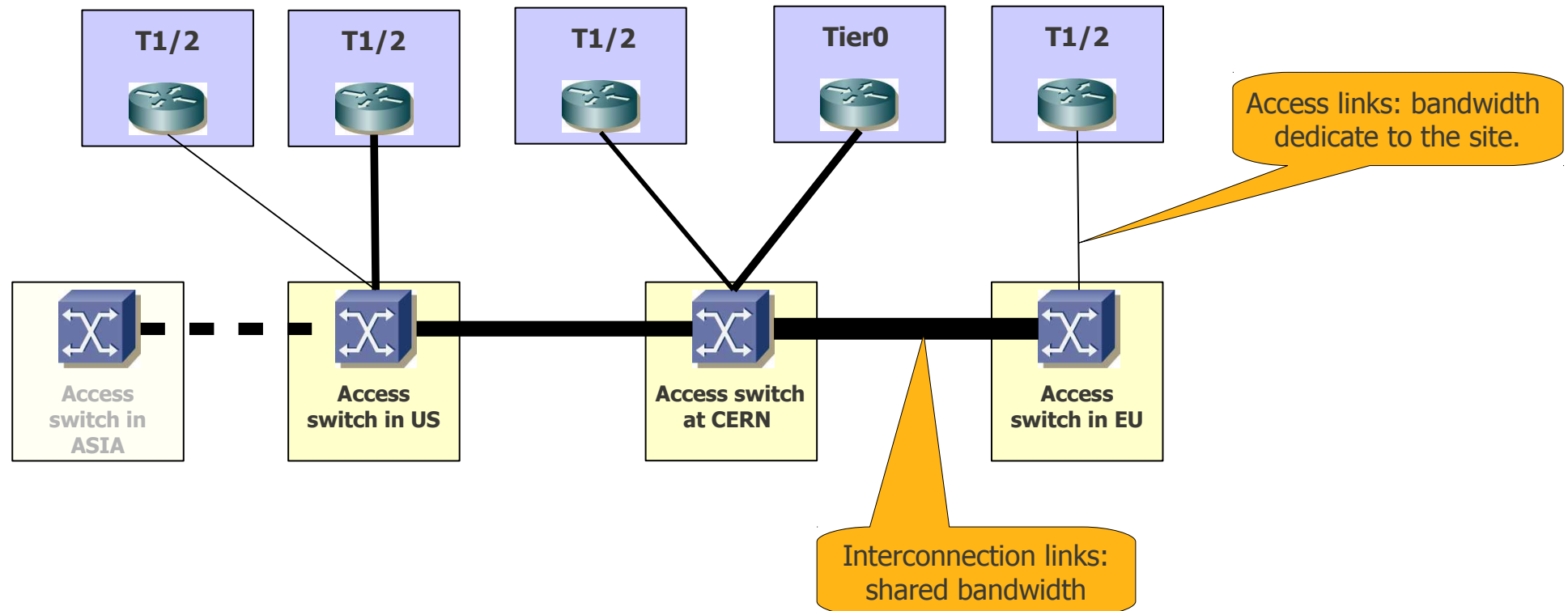


A possible architecture

Distributed IXP model



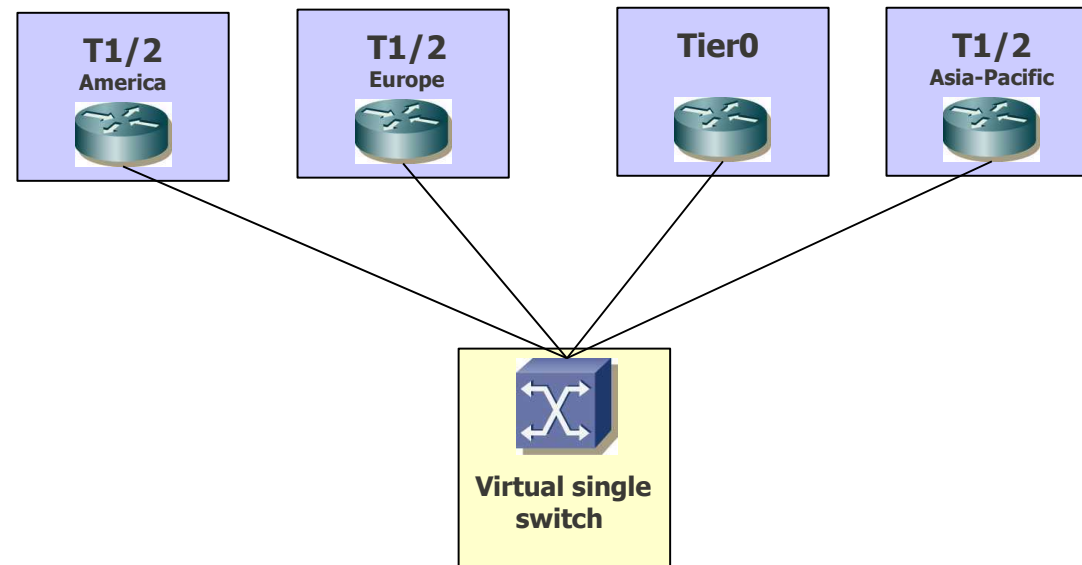
- Few strategic access locations interconnected with fat pipes.
- Provides connectivity among all members
- Flexible access: everyone can set its own preferred routing policy with anyone else, with the bandwidth it needs/can_afford.



Connectivity Hub

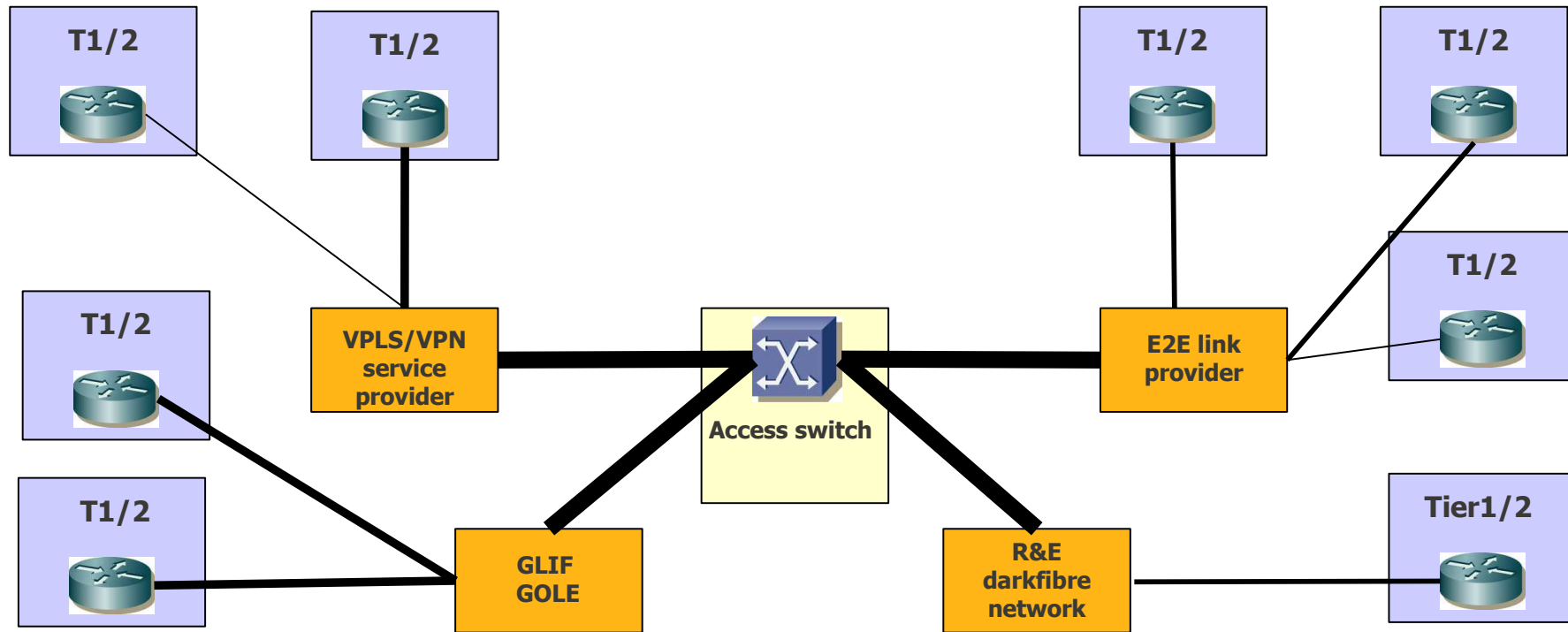
Layer 2 multipoint-to-multipoint connectivity among all the members:

- Free to peer with any connected member
- Bandwidth of the access links may be increased on-demand

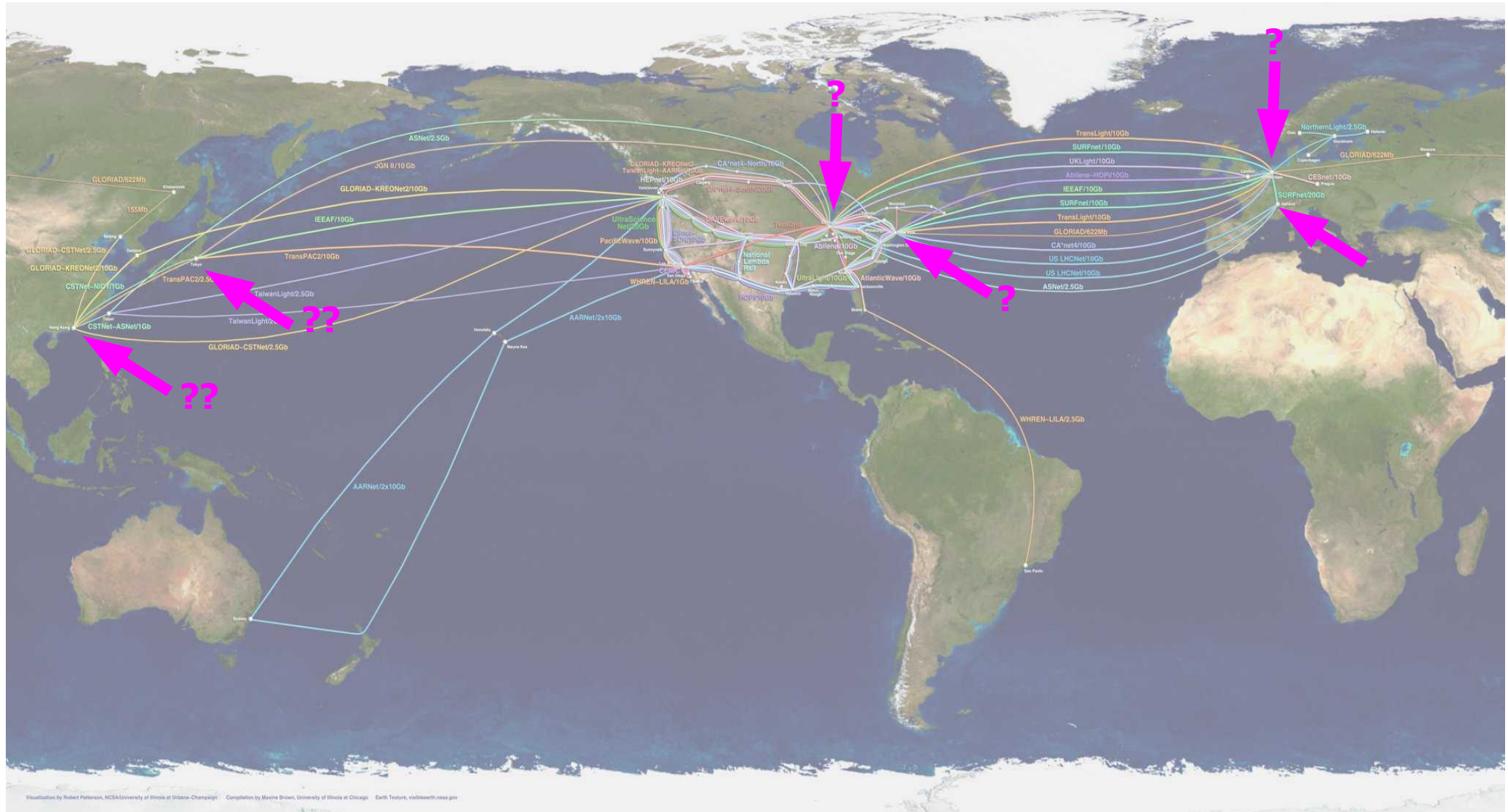


Access links

- Provided by any R&E network
- Permanent links, optionally with dynamic bandwidth
- Any site can choose the best size that fits its needs



Where?

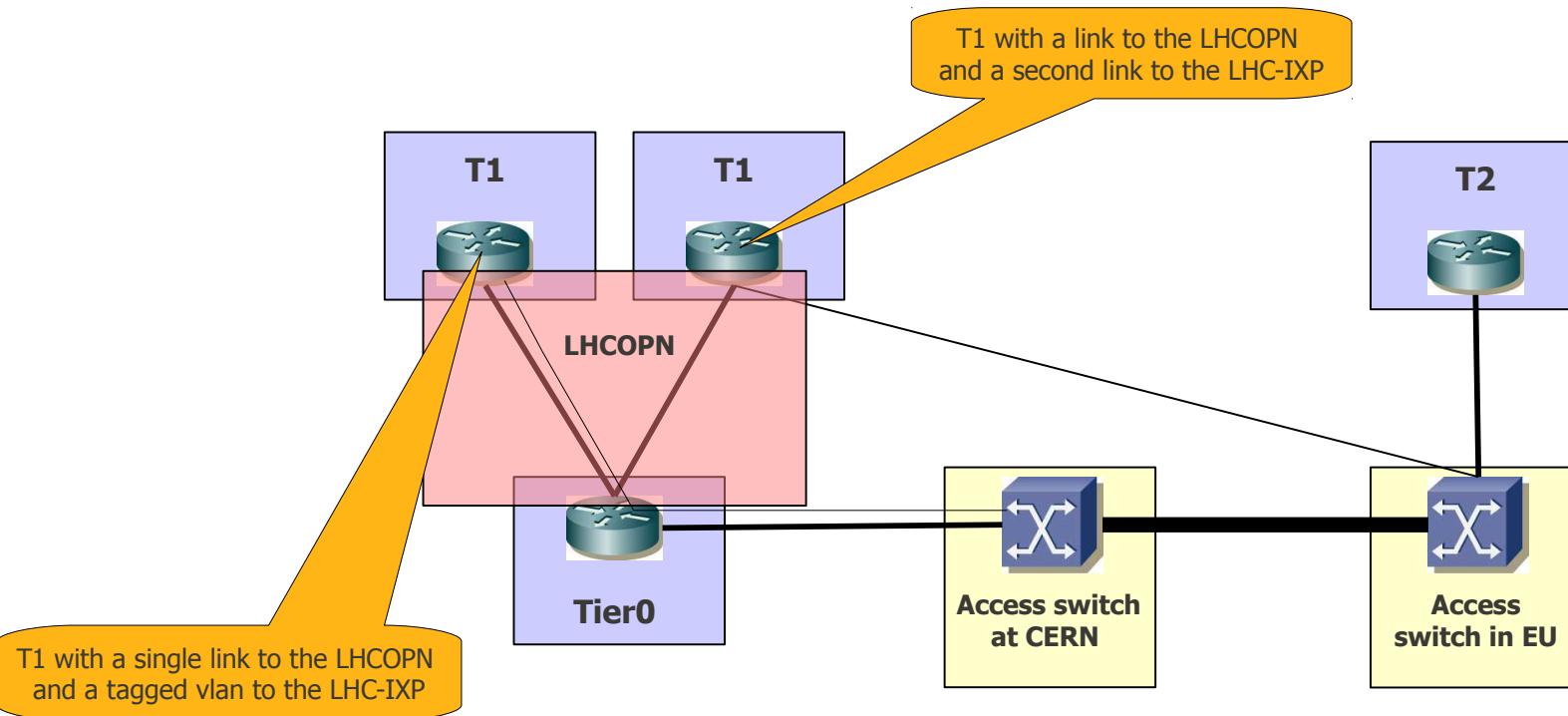


Integration with the LHCOPN



Tier1s can also connect to the LHC-IXP/HUB:

- with a tagged vlan over their LHCOPN link
- with the backup LHCOPN link (or a tagged part of it)



The LHCOPN may be dedicated to the T0-T1 traffic and move the backup and T1-T1 capabilities to the LHC-IXP/HUB

Comments?