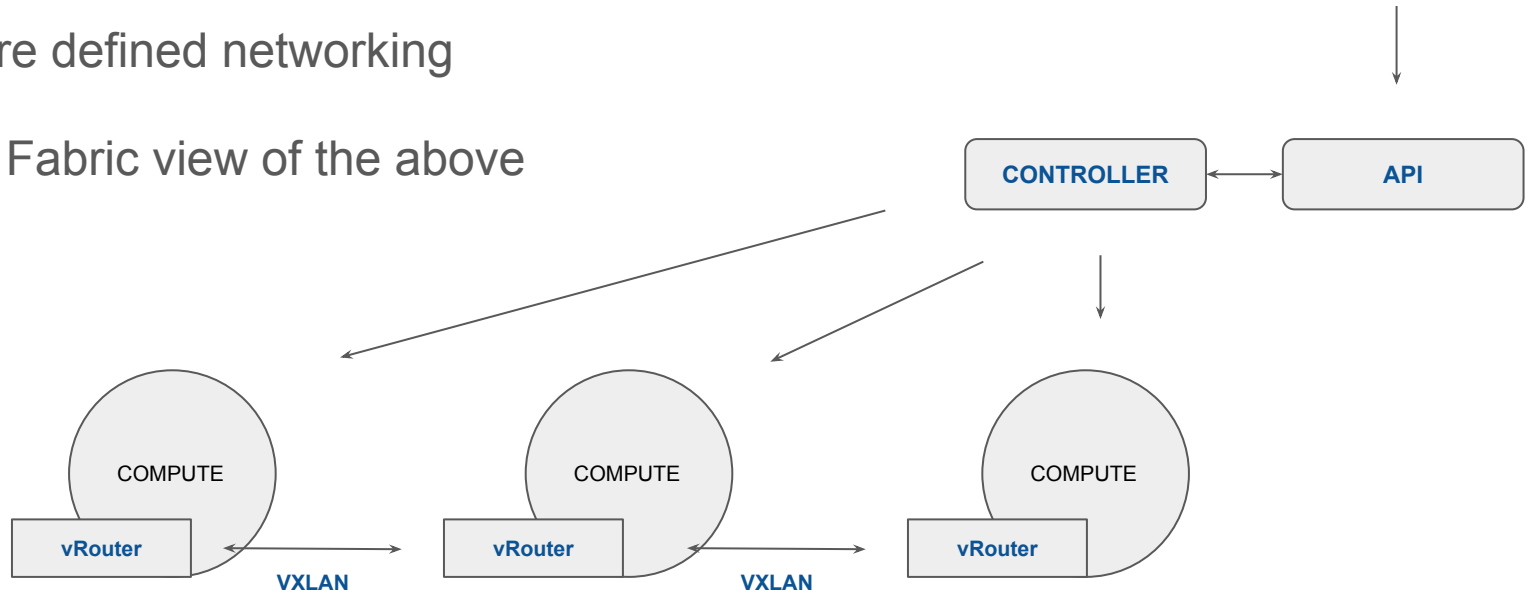# Scenario 1)

Option 1) from Edoardo's slides

Different datacenter domains (VXLAN) to segregate traffic

Software defined networking

A Tungsten Fabric view of the above

Scenario 1)

Meets main demand from the slides

    "Resource association must be software defined and agile"

Ongoing work with the Tungsten setup today

    Connectivity with the physical layer

        ongoing work with Vincent, currently relying on NAT for egress

        a *WAN Gateway* is recommended (would be the same for LHCOne)

    Configuration of the physical layer

        required to extend the VXLANs to the physical routers, ongoing work

Possible Steps

Explore the *sdn1* OpenStack region to experiment with this

Region is up and running, about to open the first service (LBaaS) for everyone

An idea

1. Move a small percentage of Batch to the *sdn1* region
2. Define the required domains (VXLAN) for a first set of collaborations
3. Finish the required physical layer connectivity setup (WAN gateway + TSN)

If this works, we could increase the amount of Batch resources offered in this way