

Massively Distributed Clouds Working Group

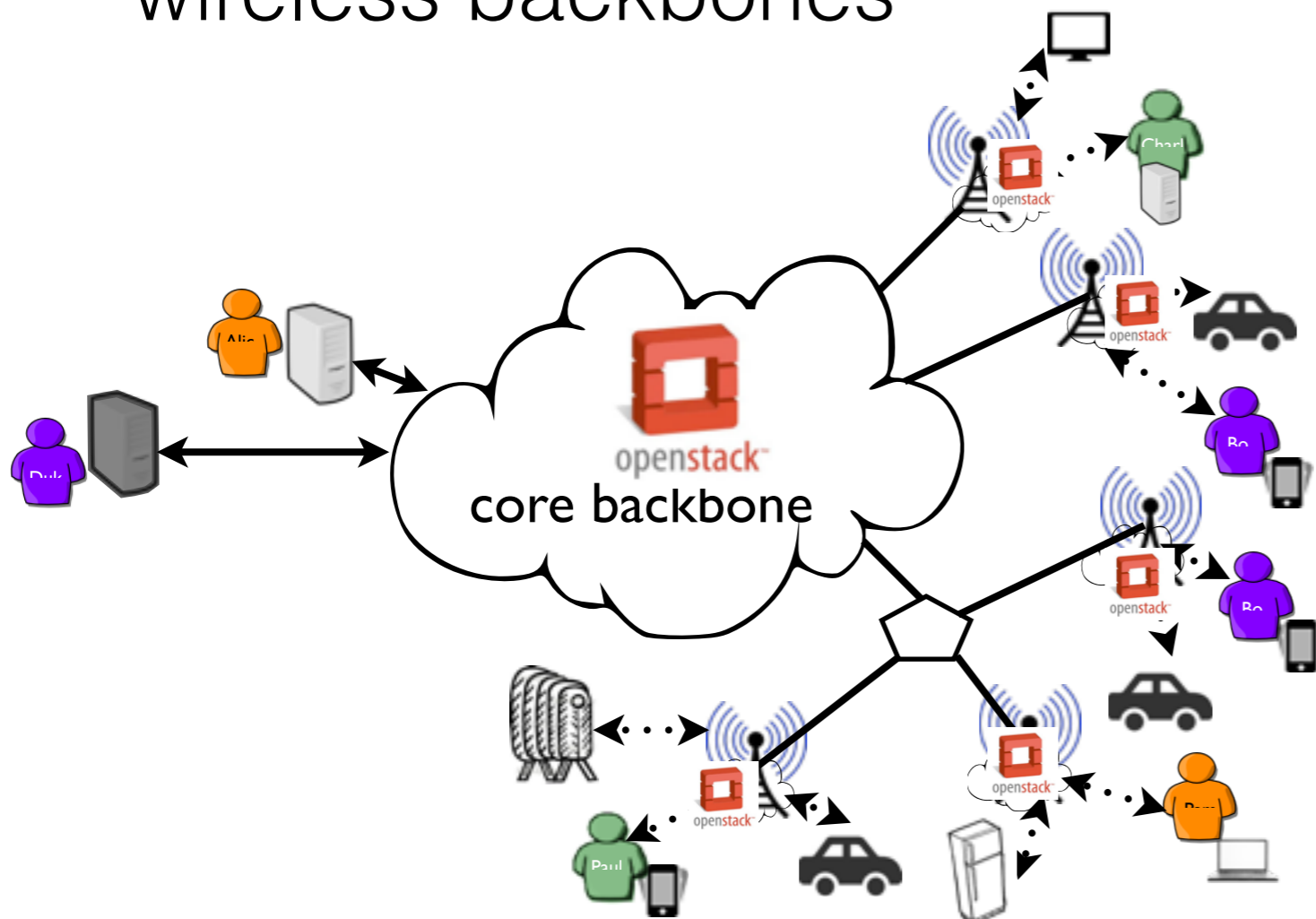
101

Fog/Edge Computing Infrastructures

- Leverage network backbones

Extend any point of presence of network backbones (aka PoP) with servers (from network hubs up to major DSLAMs that are operated by telecom companies, network institutions...).

- Extend to the edge by including wireless backbones



European NREN

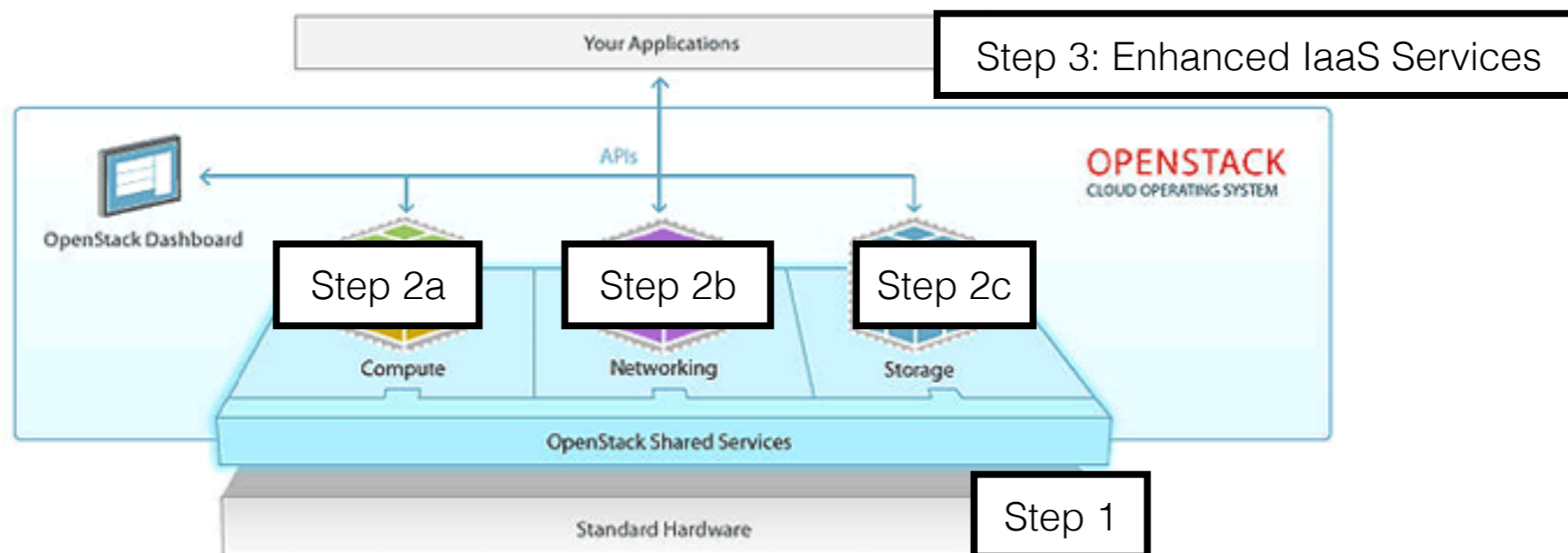
INTERNET2
INTERNET2 NETWORK CONNECTIONS
WWW.INTERNET2.EDU/CONNECTORS - MARCH OF 2016



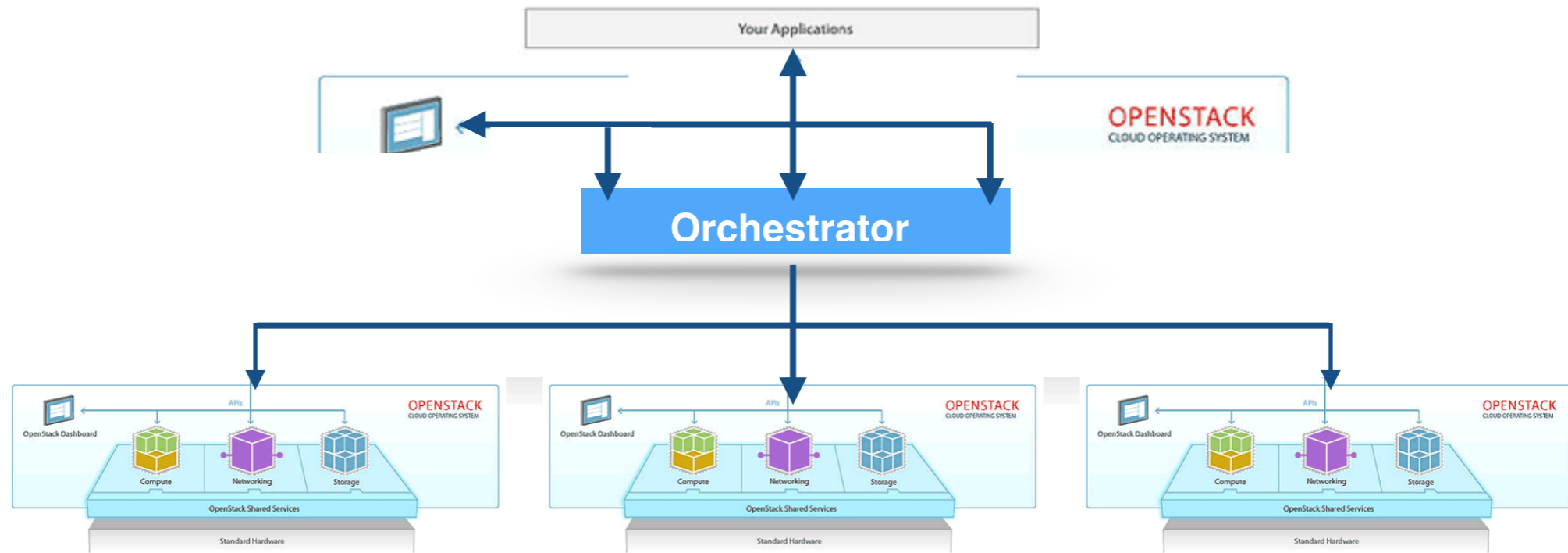
USA NREN

Revise OpenStack to Support Fog/Edge Computing Infrastructures

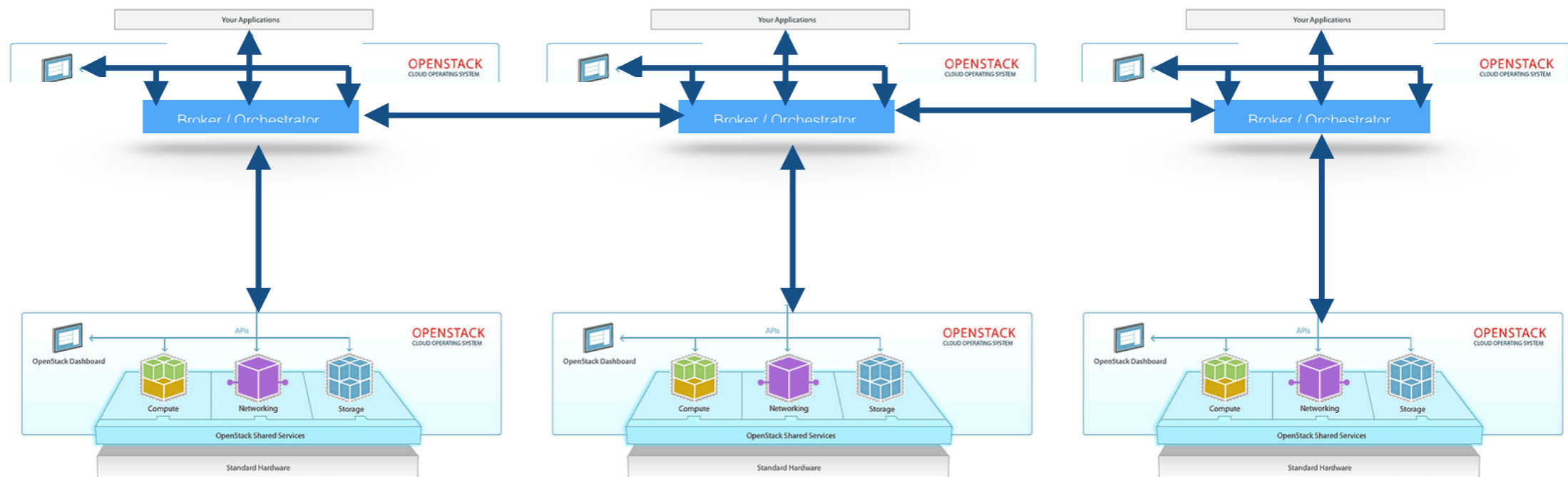
- Do not reinvent the wheel... it is too late
- Mitigate development efforts
 - By favouring a bottom/up approach (instead of Top/Down proposals)
Investigate whether/how OpenStack core services can become cooperative by default (using P2P and Self-* technics).
 - By relying on a strong knowledge base
(Scientific community as well as real use-cases)



Top/Down



Centralised



Distributed

Bottom/Up

