



Multi-Access Edge Cloud

Meta-Architecture



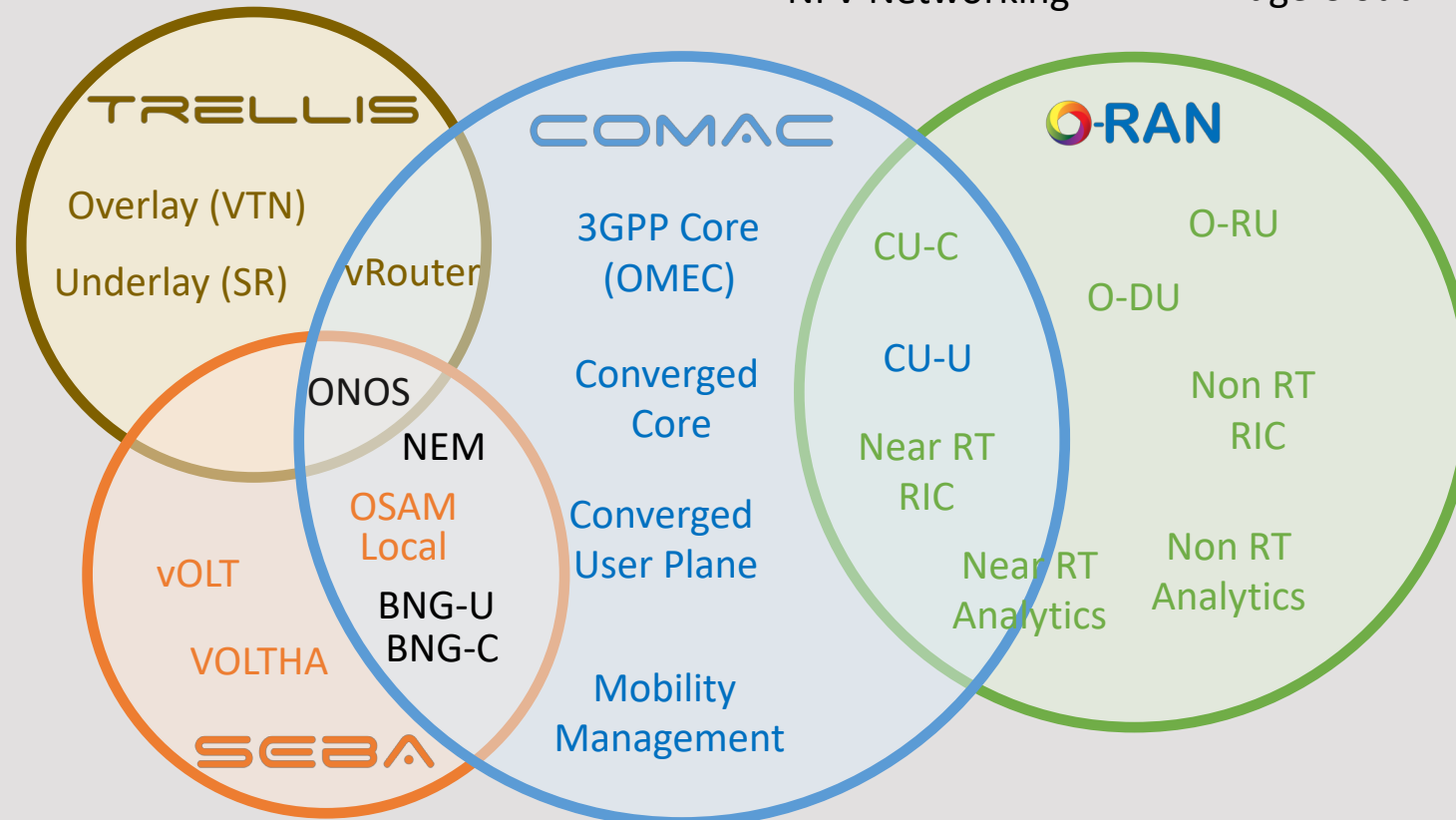
MAEC

Multi-Cloud
Service Mesh

Cloud-Native
NFV Networking

Multi-Tenant
Edge Cloud

...



White Box Infrastructure

Disaggregation

Virtualization

Cloudification

Orchestration



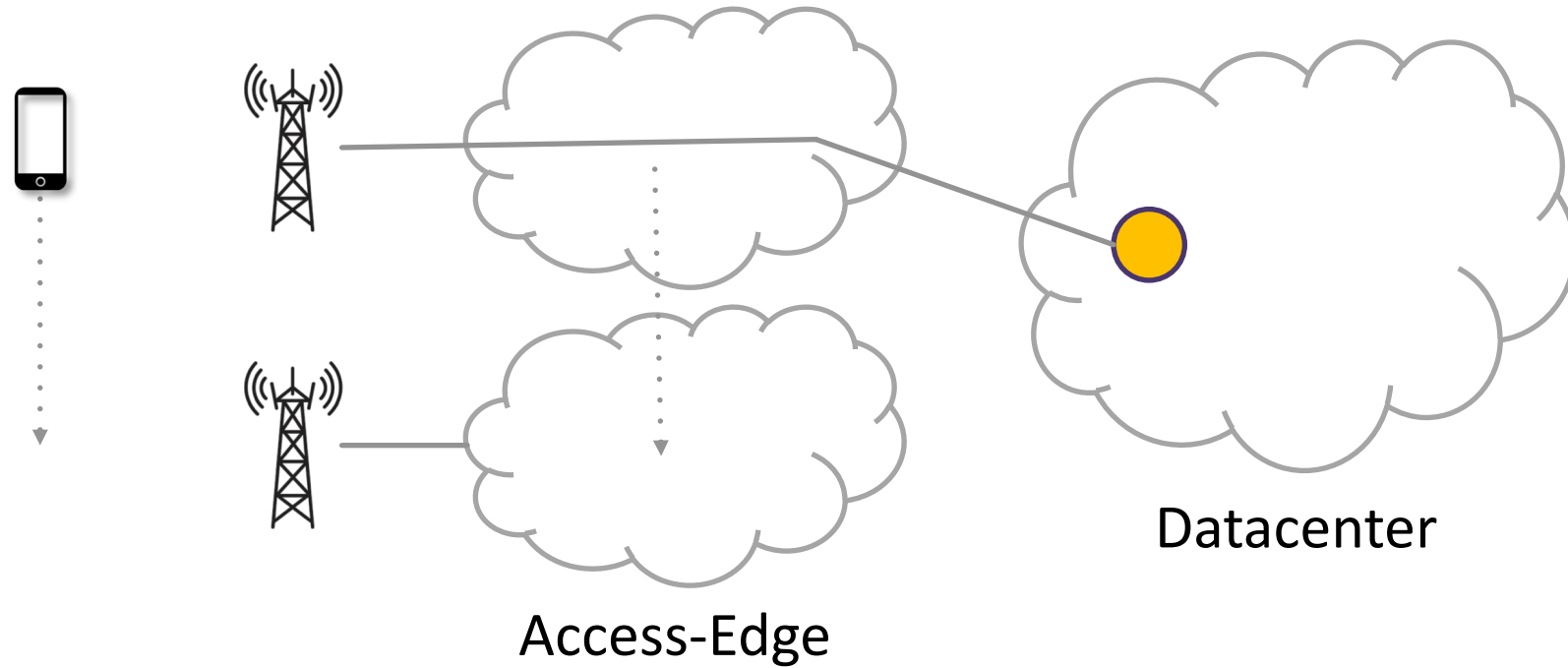
MAEC Priorities

Focus: Opportunities where *access* intersects edge cloud

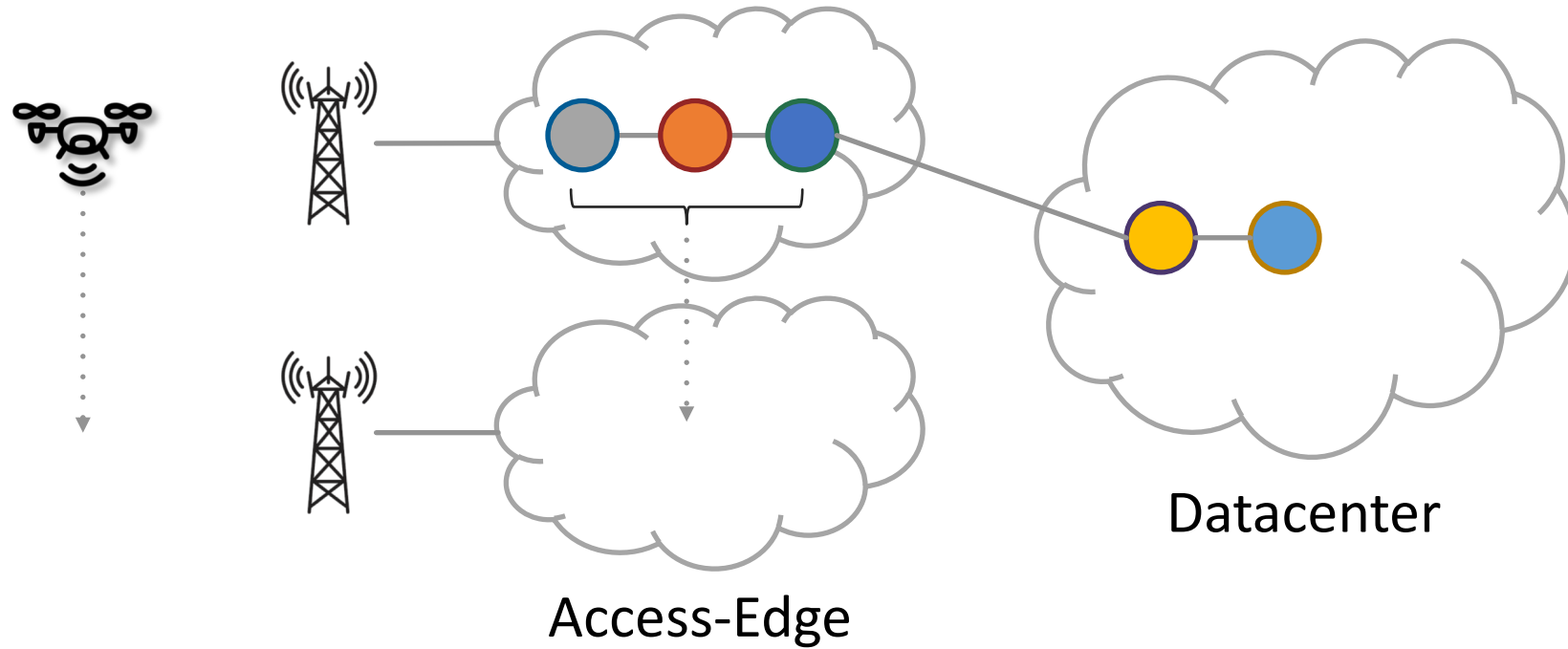
Factors: Ordering based on relevance of access

1. **Mobility** – Support service chains that migrate between edges
Mobility inherent in 5G dictates that edge services, not just connectivity, be able to migrate to support mobile UEs.
2. **Distributed** – Support service meshes that span multiple clouds
Cost dictates a distributed solution, with some functions running in datacenters, some in edge sites, and some on-prem.
3. **Slicing** – Support differentiated resource allocations and customization
Monetization dictates the need to offer differentiated services to different classes of subscribers/applications.
4. **Heterogeneous** – Support a range of implementations choices
Performance dictates that functionality be implemented in most appropriate hardware (e.g., GPUs, TPUs, P4-Switches).
5. **Multi-Tenancy** – Support multiple stakeholders
Autonomy dictates that different stakeholders will be responsible for controlling and managing different components.

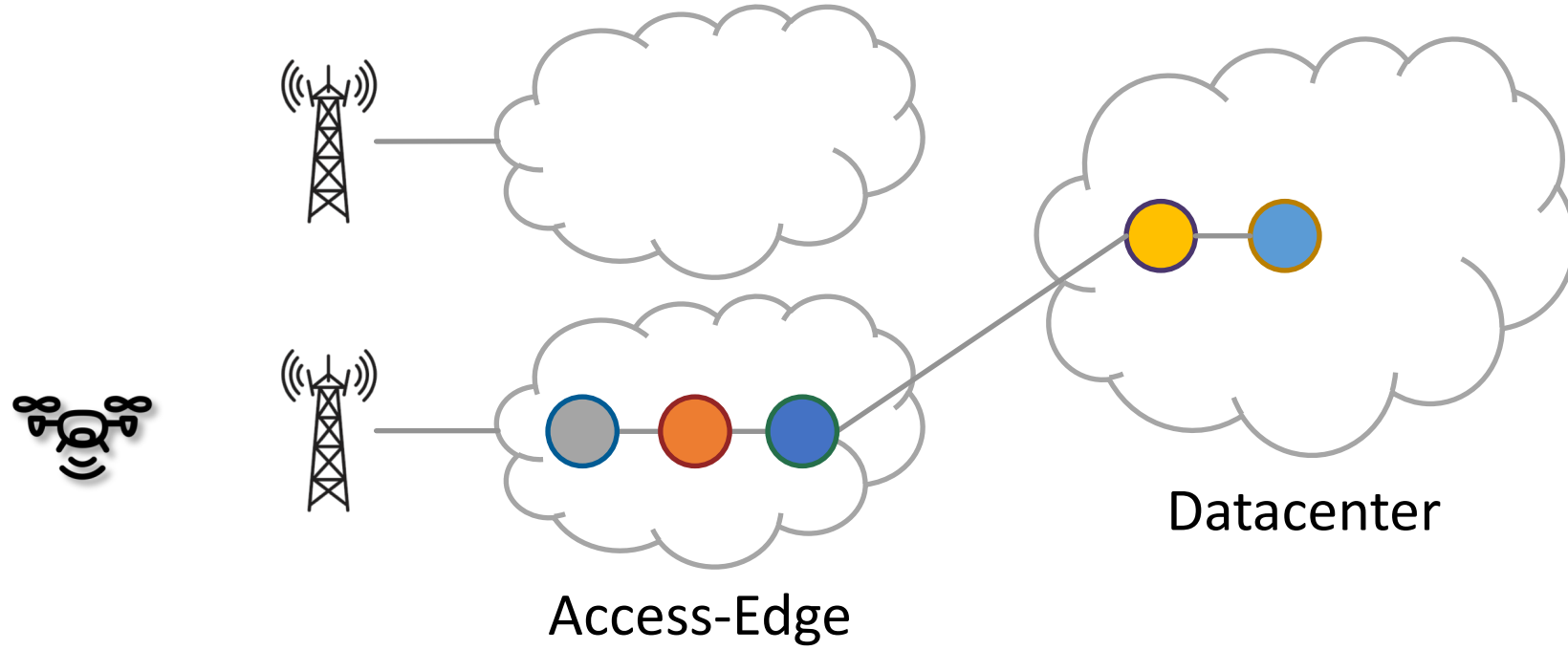
Mobile Broadband (2G – 4G)



Mobile Cloud (5G)



Mobile Cloud (5G)



Multi-Cloud Service Mesh

