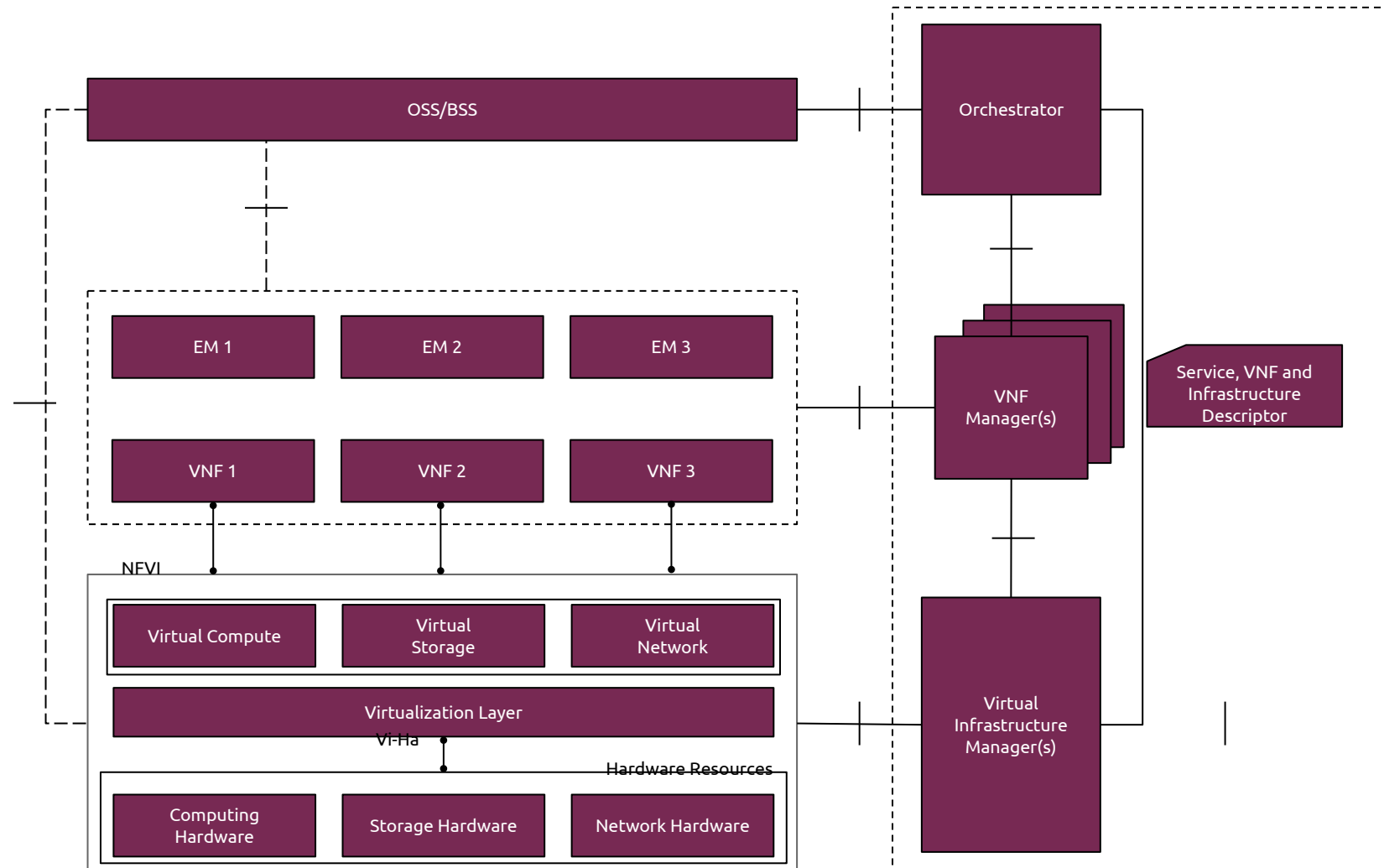


Open Source MANO

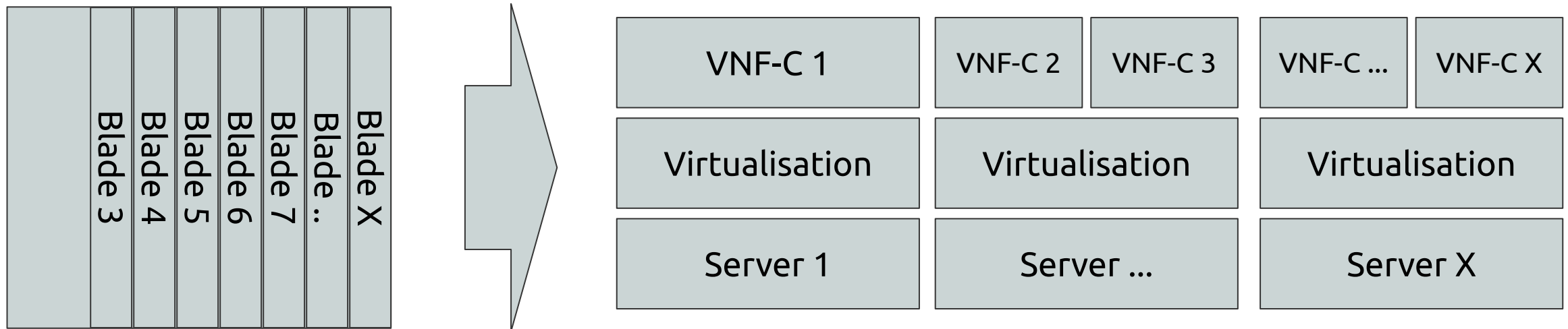
Virtualised and Containerised Network Functions in
OSM

Marcin Bednarz, Canonical

NFV Architecture

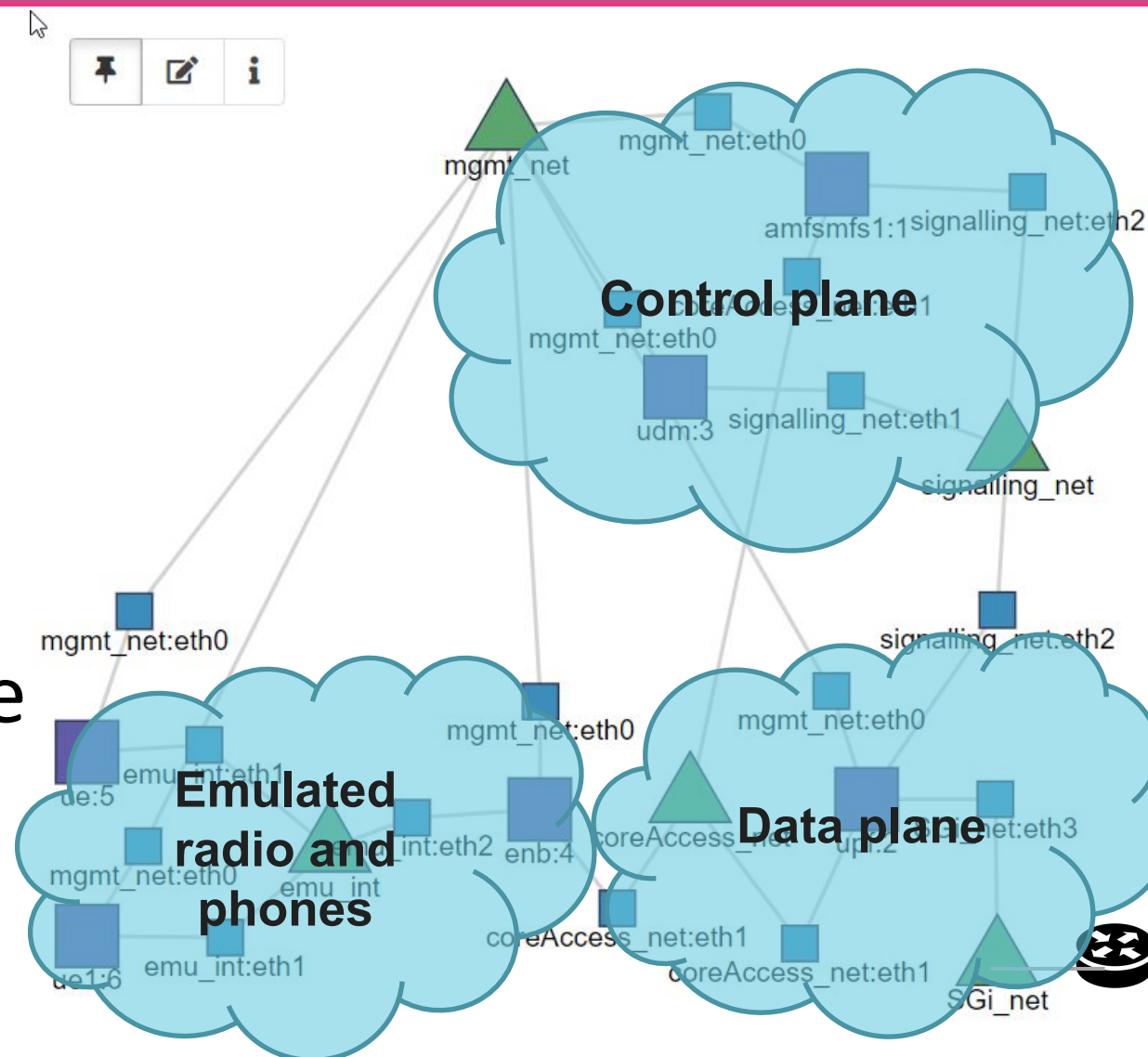


NFV Transition



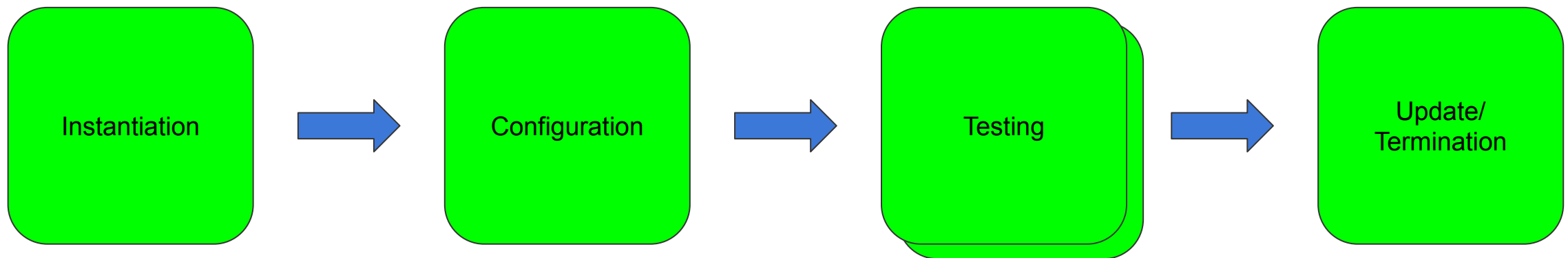
Advanced service deployment PoC #4

- Deployment of complex NS Open5GCore
 - optionally with emulated eNB & UEs
- Advanced VNF configuration using full charms
- Enabling further Open5GCore use cases (e.g., AR/VR)



VNF onboarding in practice

- Requirements for Network Service and VNF descriptors
- Configuration and lifecycle management operations
- End-to-end Network Service testing
- Repeatable, automated onboarding process



Virtualisation

- VM based NFVI
- Monolithic - Image based deployment
- Static application with little automation
- Vendor specific APIs
- Ported Application Legacy HW -> COTS
- Siloed “EMS” Operations

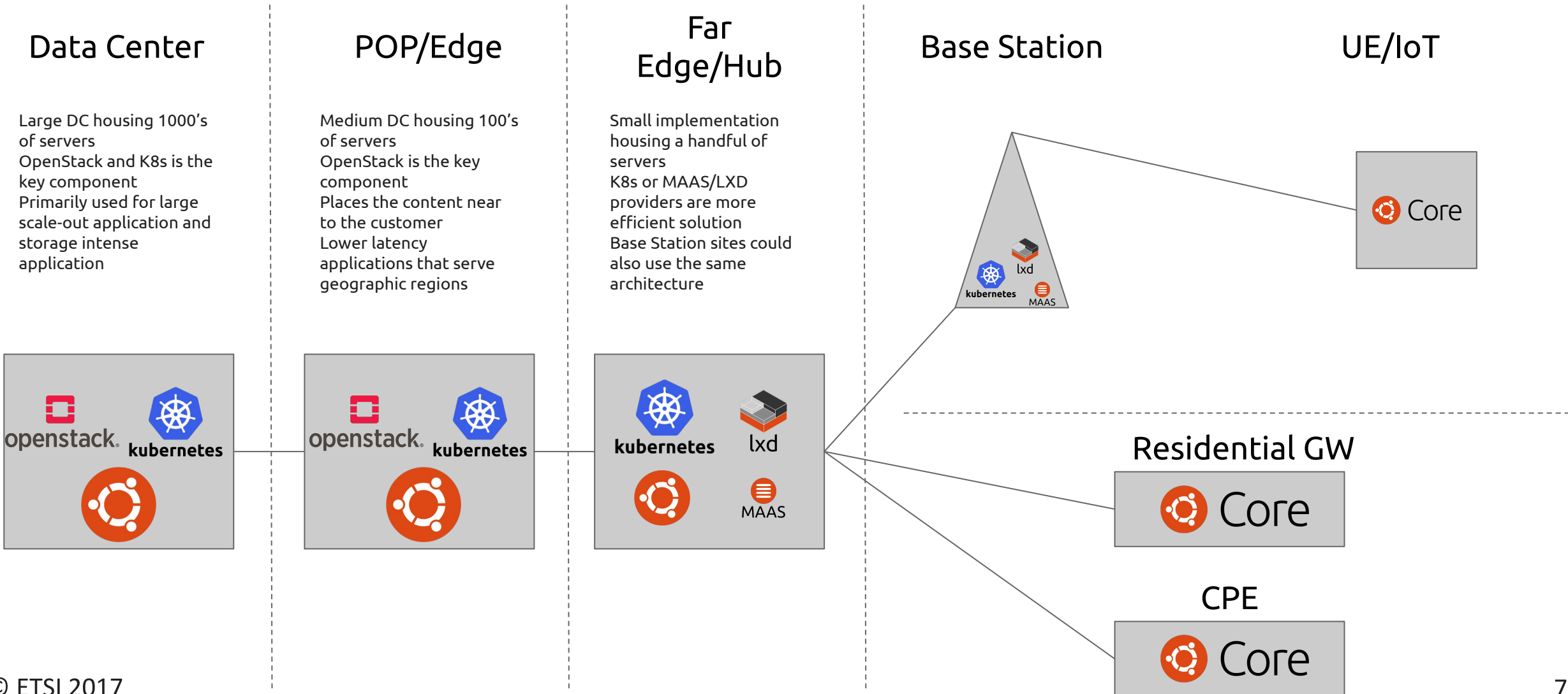
Cloudification

- Container and VM capable NFVI
- SDN integrated with NFVI
- Industry standardized guests
- Modeled application control
- Generic VNF Management
- Consolidated KPI/API's
- Common operations
- Automated service deployment

Cloud native

- Container and VM capable NFVI
- Cloud native elastic apps
- E2E service models
- Services relations chaining
- Network Slices
- Model-driven FCAPS
- Predictive analytics data process
- DevOps-based Operations
- Full Automation

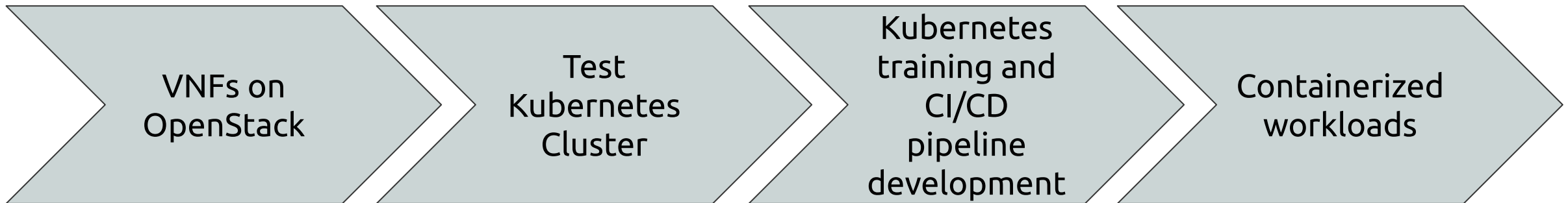
Where can containers fit in the network

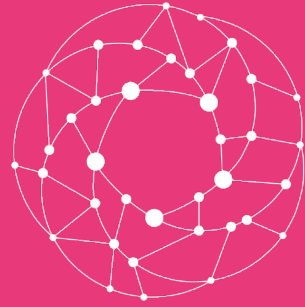


What can you run in containers

- Containerized NF's in the Core Data Centers → in development
- Containerized apps in the Data Center → available
- AI/ML → available
- 5G Base Station Software → in development
- Edge compute infrastructure → available
- Containerized easily portable multi-cloud → available
- Container development and testing on a laptop → available

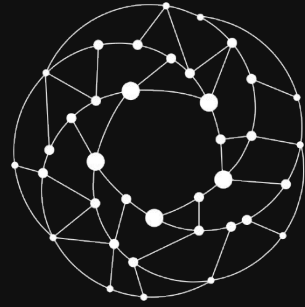
How to get started





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Questions ?



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Thank you!