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T E L E C O M

Technology Shaping the Future

Reliability at the edge:
Elastic resources for the 5G access network

Spiros Spirou

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- ▶ Resiliency
- ▶ Edge
- ▶ Virtualization
- ▶ Summary



- ▶ A global telecommunication systems and solutions vendor
- ▶ Over 35 years experience in the telecoms market
- ▶ €160 million Group's revenue in 2013
- ▶ Over 1,900 employees worldwide
- ▶ Based in Athens, Greece. Presence in 16 countries
- ▶ Exports to 70 countries
- ▶ Leading participation in more than 120 international R&D projects



Areas

- ▶ SDN
- ▶ NFV
- ▶ ICN
- ▶ Network Management
- ▶ Traffic Engineering
- ▶ CDNs
- ▶ IPTV/VoD
- ▶ P2P

Major Projects



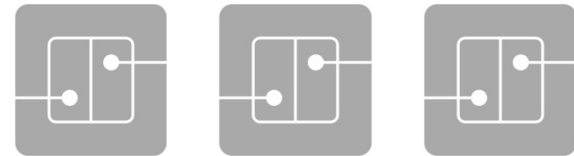
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Resiliency = Redundancy

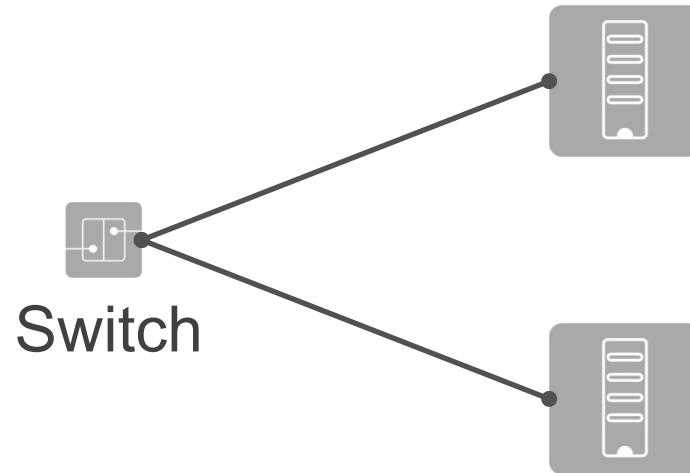
Resource multiplicity

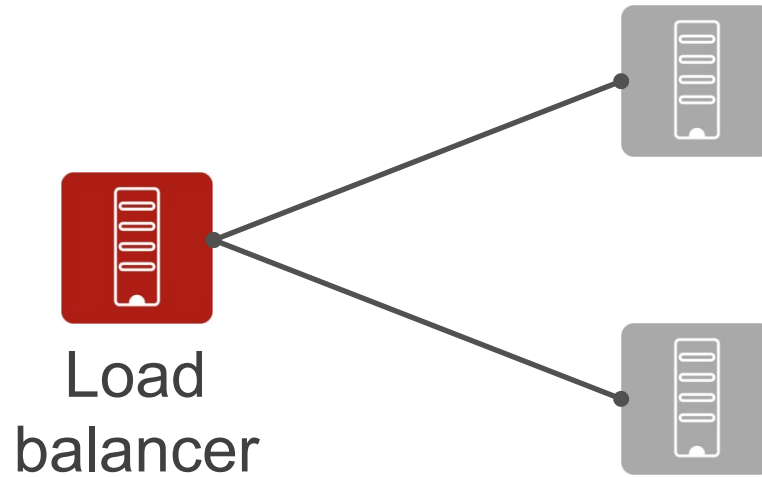


Nodes



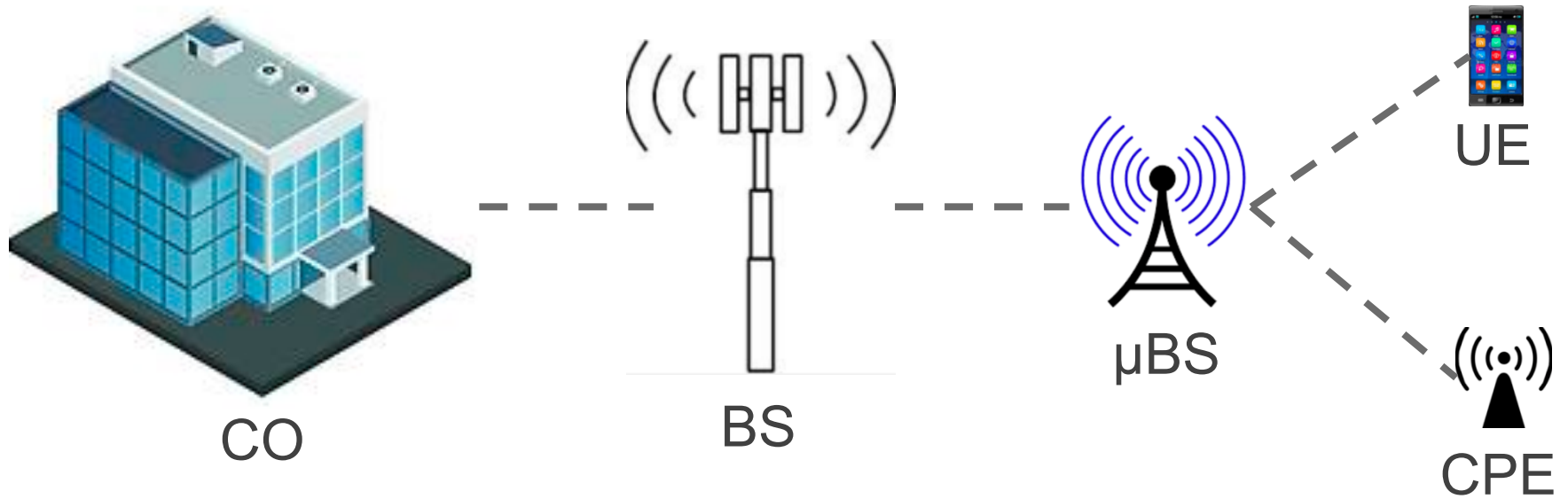
Links

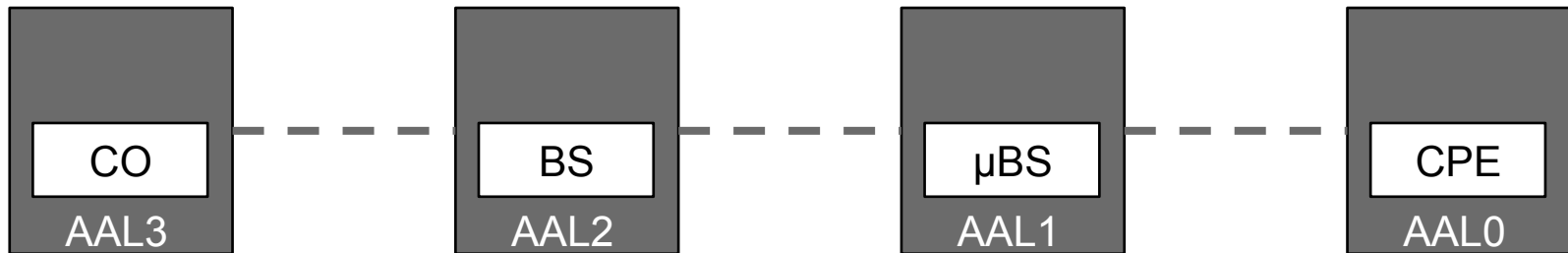


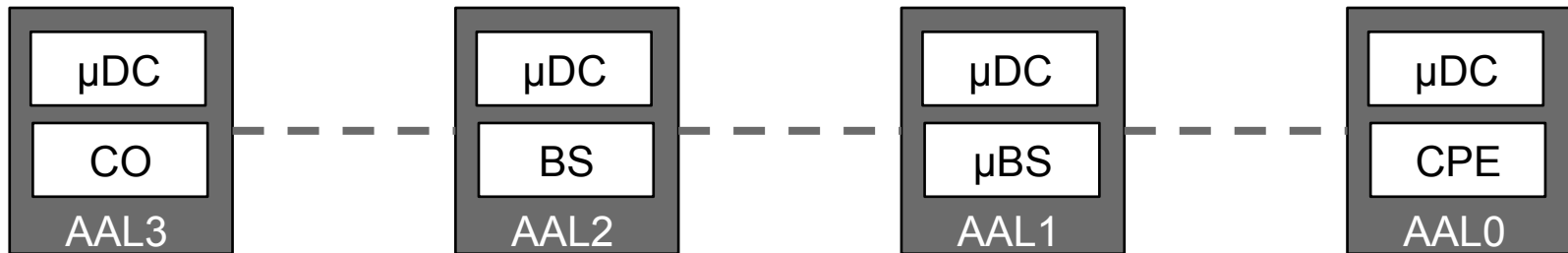


**Need to deploy and maintain
fixed failover and distributed nodes
statically**

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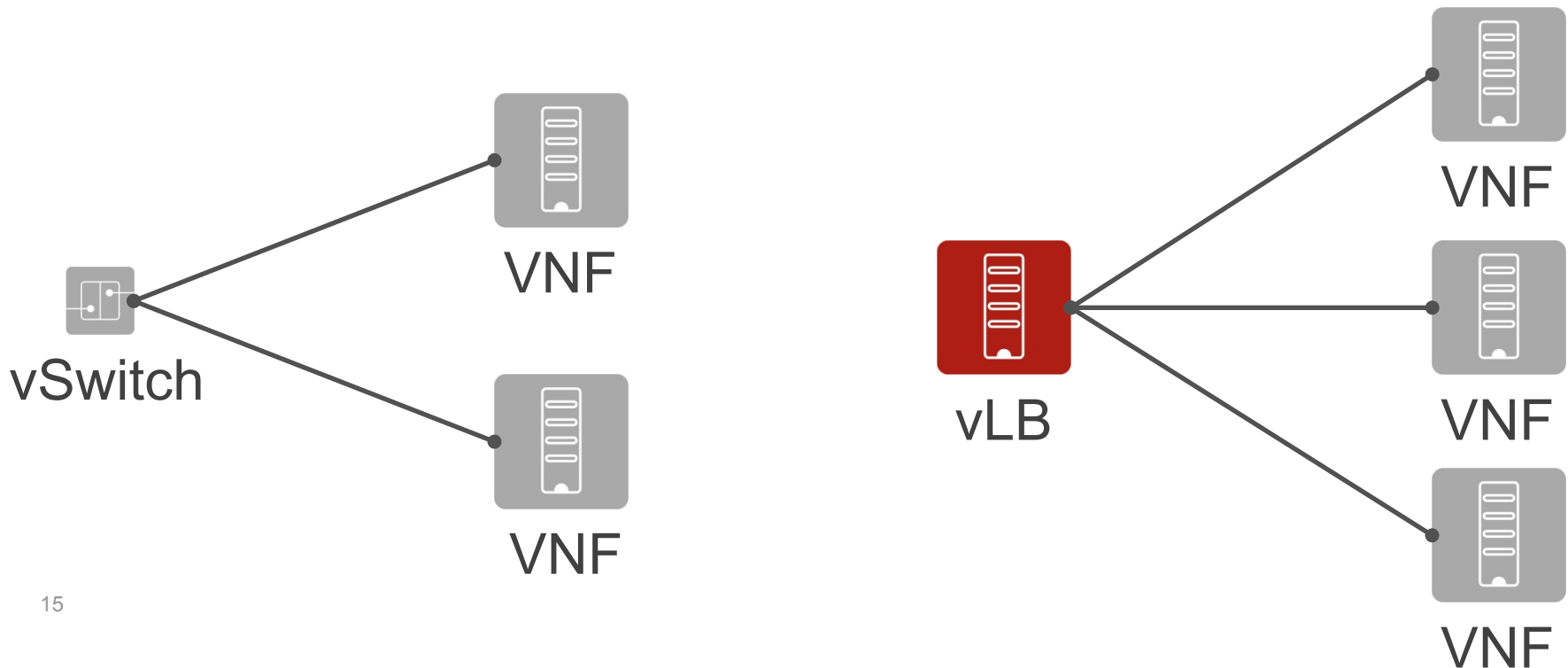


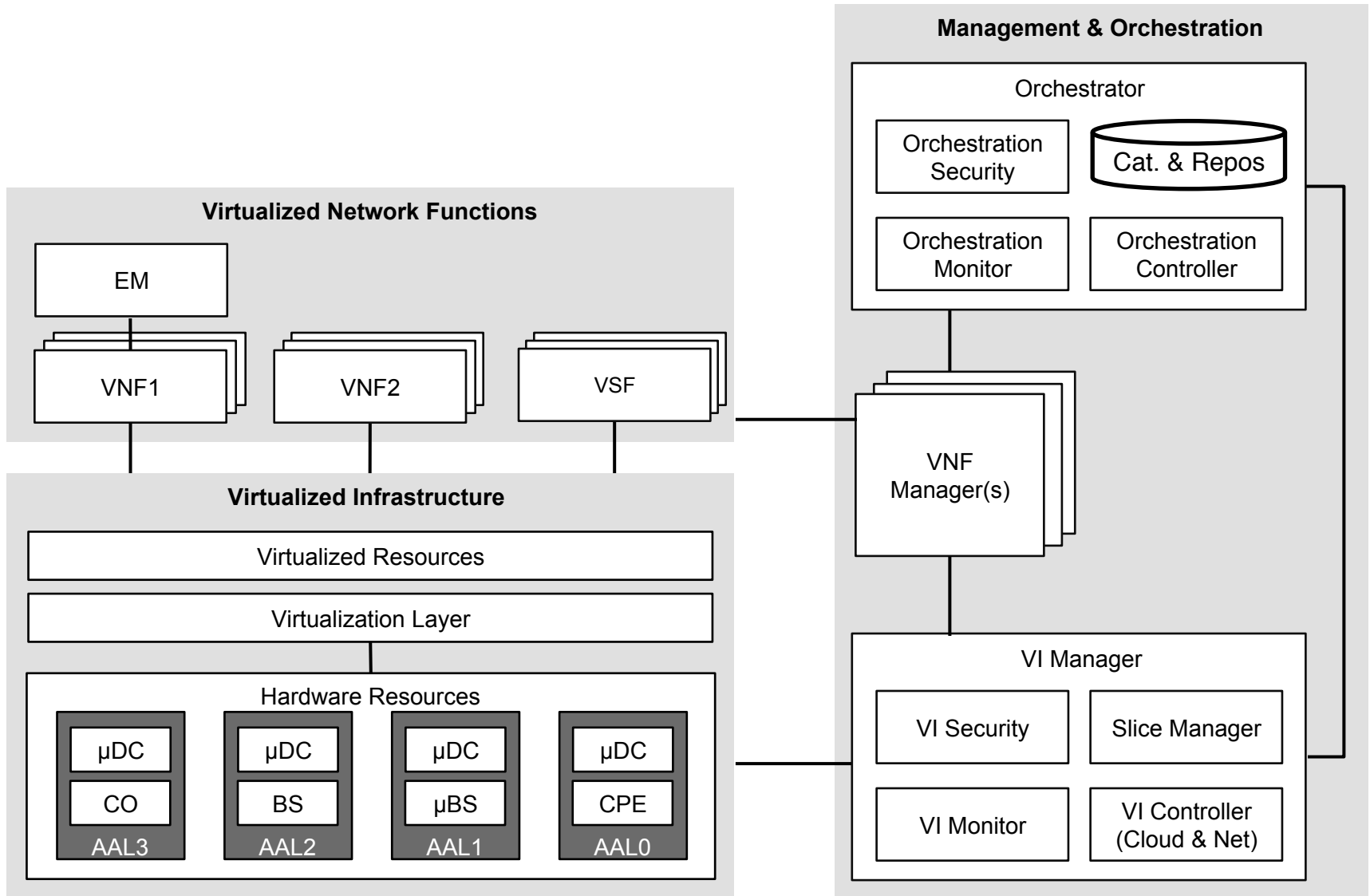




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- ▶ **Virtualization**
- ▶ Summary

Deploy and maintain virtual failover and distributed nodes dynamically





- ▶ Resilience = redundancy
- ▶ Problem: Static, fixed resources
- ▶ 5G Edge: Hierarchical AALs + μ DCs
- ▶ Solution: Dynamic, virtual functions
- ▶ ETSI NFV architecture at the edge

thank
you

For more information:
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