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Innovation is Freedom

Virtualization @ Cloud Services Providers

- Brief overview of key challenges -

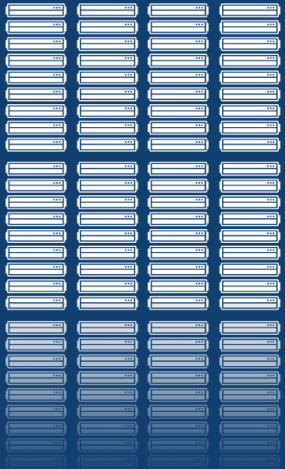
Alban Schmutz, OVH

**Cloud has (almost) nothing virtual**



# Nothing virtual...

250,000  
Physical servers



17  
datacenters



18 millions  
Hosted Apps



#1 Europe  
#3 WW\*



3 continents – 17 countries



1M+ customers

1,300  
employees

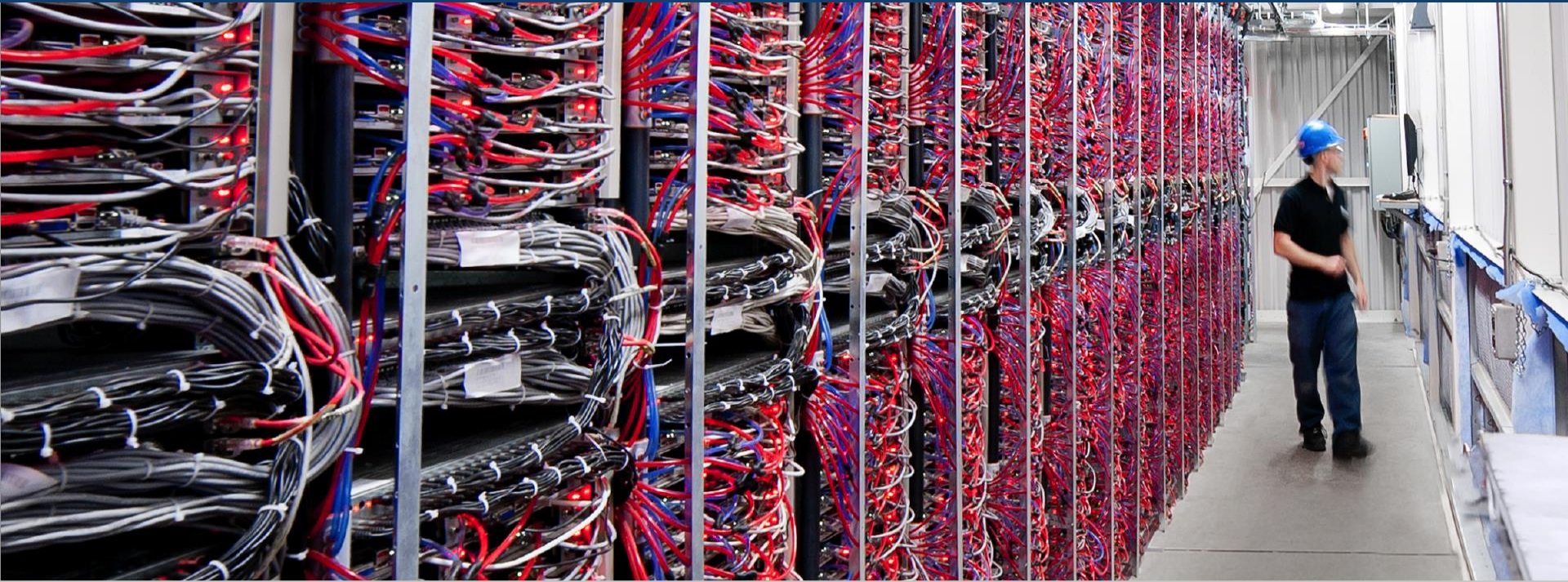
Yearly growth

30%

€150M+

Yearly Investments

# Servers made in OVH



300+ servers / day

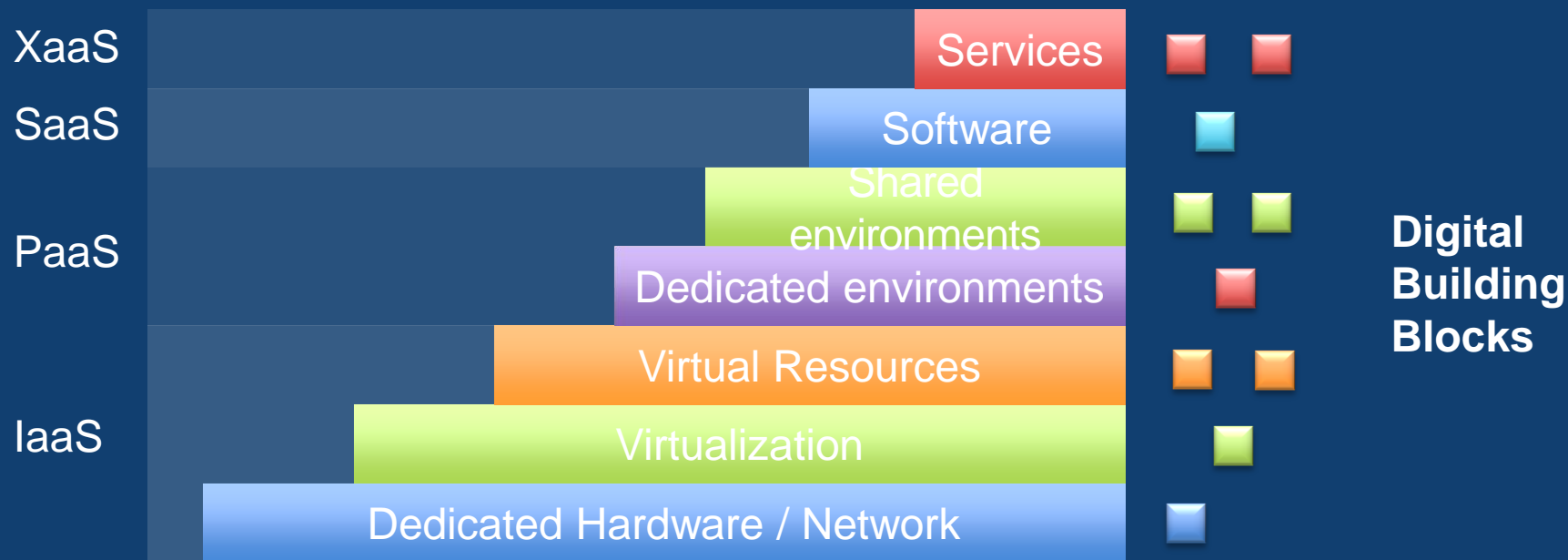


# Made in OVH datacentres



PUE 1,07-1,09

# A **Single** access point to the Digital World



# Portfolio



**We need virtualization to achieve our  
challenges and our customers'  
challenges**





# Some key challenges

- 1M+ customer to deliver automatically
- Targeted deployment in 120s max. for any config. (virtual and physical)
- High availability (99.99xx)
- Automated billing (incl. scale up and down)
- Reversibility (no lock-in): standard market APIs
- Any of our services should be able to be aggregated in one single group of vLANs
- Hybrid Cloud: one single virtual infrastructure for the customer within OVH and its own DCs
- Security certifications (ISO27001, SOC1/2, CSA, PCI-DSS, Health...)
- Innovation (inside OVH and on products with customers – labs)



Web  
hosting

Containers  
(Docker)

Dedicated  
Servers

Dedicated  
Cloud

Public  
Cloud

VDI

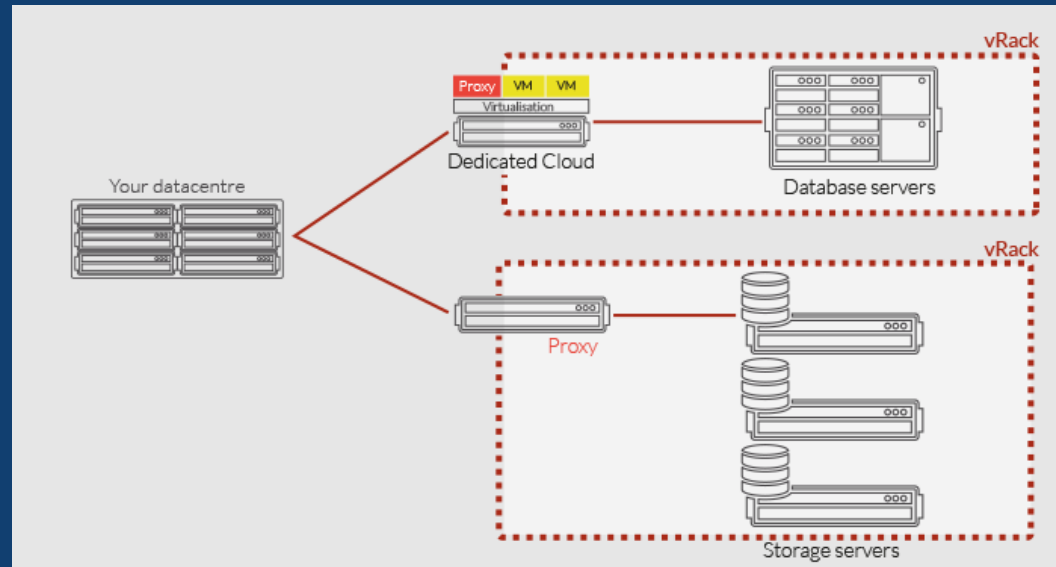
...

Network

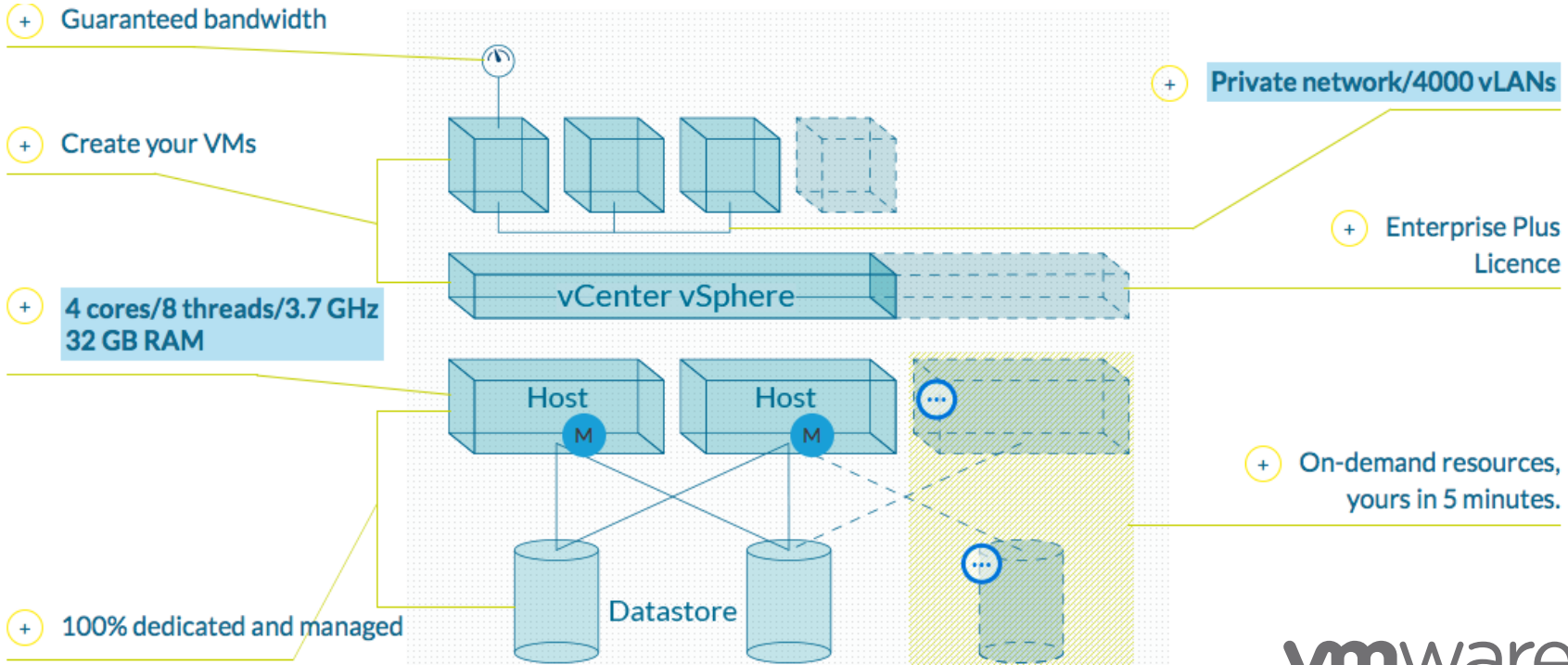


# vRack

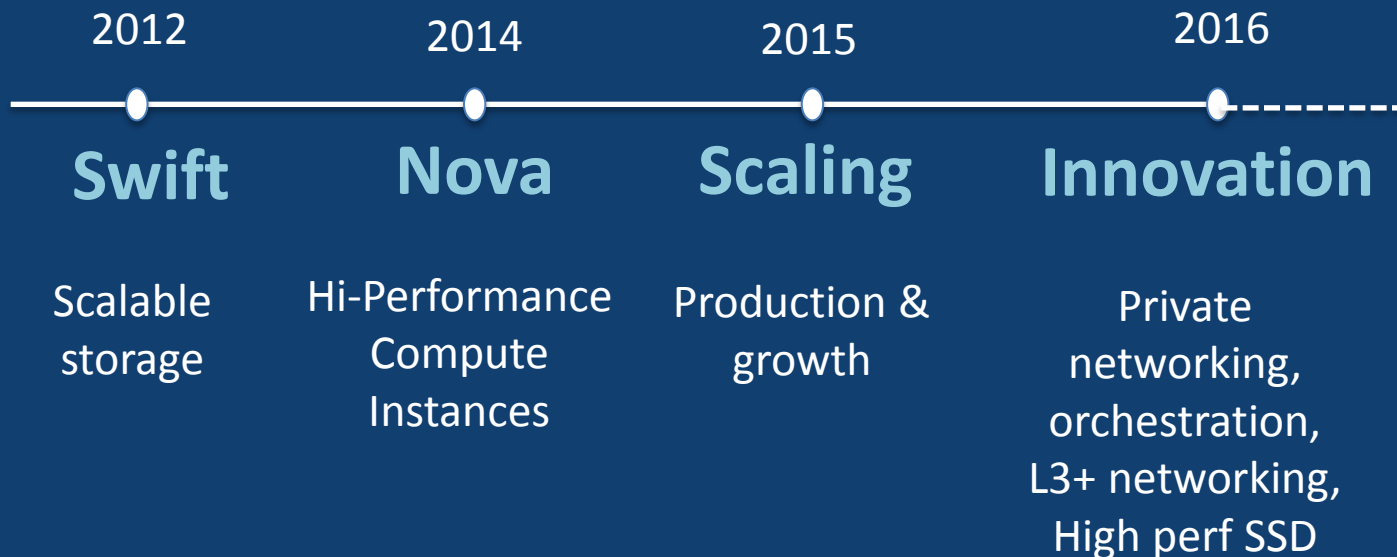
- Isolation on Private Network
- Multiple vLANs
- Hybrid infrastructure
- Multi-DC



# Dedicated Cloud



# Public Cloud





# How we bring technology at scale?

**1/10/100/1000**



# Conclusion

We need to scale with a high level of reliability, so do the technologies we develop!





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