



## Panel: Security issues in the virtualization of Next-G networks

Florian Kaltenberger  
NSF Workshop on Next-G Security  
15-16 October, 2020



# Cloud-native 5G and OpenAirInterface ecosystem

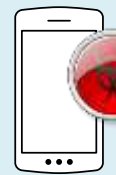
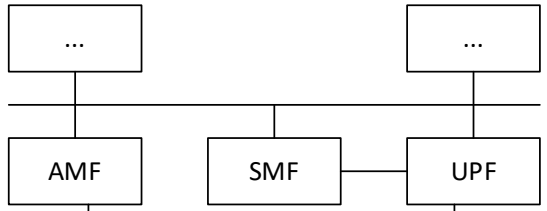
Orchestration & Automation



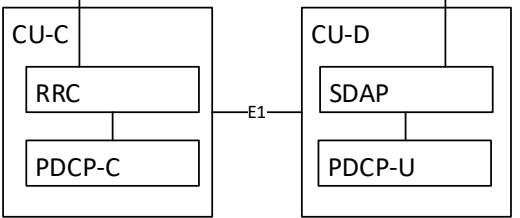
Intelligent Controllers  
Network Slicing  
Mobile Edge Computing



5G core

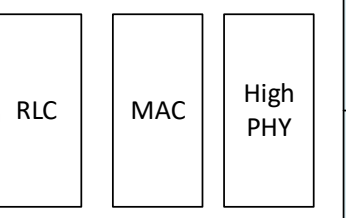


CU

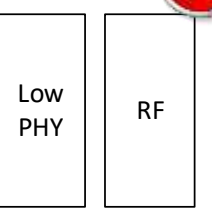


E2

DU



RU



Virtualization infrastructure & Technologies



# Open5Glab @Eurecom

Sub-6GHz outdoor BS



Overall deployment



mm-wave radios



- Outdoor deployment of 4G-LTE (+LTE-M/NB-IoT) and 5G-NR RRUs
- Indoor Deployment of ~20 4G RRUs
- Fronthaul connected to RedHat OpenShift cluster running OAI VNFs
- Vision: once fully deployed, open this testbed up for security research