

# SDOs, Alliances and Open Source Communities

## Standards, Specifications & Use Cases



NFV, MEC, ZSM



## SW & HW Ref. Implementations, PoCs



## Management, Orchestration, Control, Infrastructure Development & Integration



## Node Level Mechanisms



# Red Hat interest in OAI community

1. Red Hat looked on the Open Source landscape on RAN
  - OAI wins in all key metrics, the best community around RAN in terms of features as well as size/diversity of the community
2. We are using OAI as a test vehicle to enhance platform features & performance
  - Easier to work with than RAN vendors due to access to code
  - In many cases community moves faster than vendors do
  - OAI needs same features as commercial implementations
  - Examples: RT performance, pkt proc. performance, QoS, delay minimization, PTP synch improvements, in-line and sideband HWAs, HW abstraction improvements, FPGA support improvements, ...
3. Well working Collaboration
  - Virtualized LTE network demo in OPNFV VCO 2.0 w/ OAI eNB (ONS 2018)
  - Containerized 5G network demo in OPNFV VCO 3.0 w/ OAI gNB (Q4'2019)
  - Looking for 5G'ish stage-demo stuff: mmwave OTA, drone/camera, low latency, hi BW