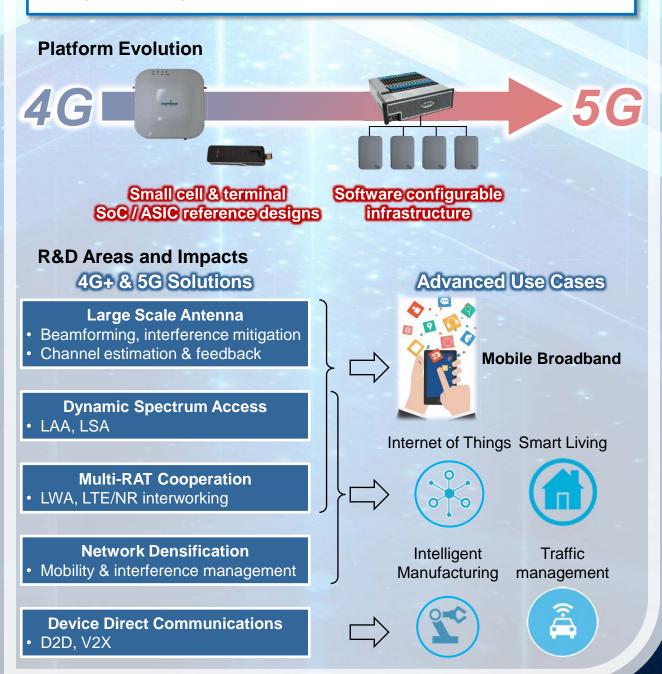


Baseband Innovations Towards 5G

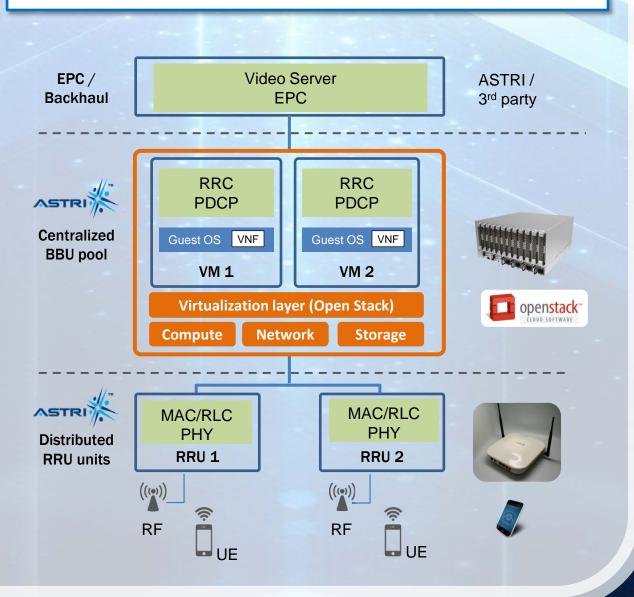
- 5G research to contribute/impact the standardization
- Pre-commercial platform
- Interim outcomes (e.g. patents, demos and reference designs) enrich our partners' competences



ASTRI

C-RAN with Partitioned PS

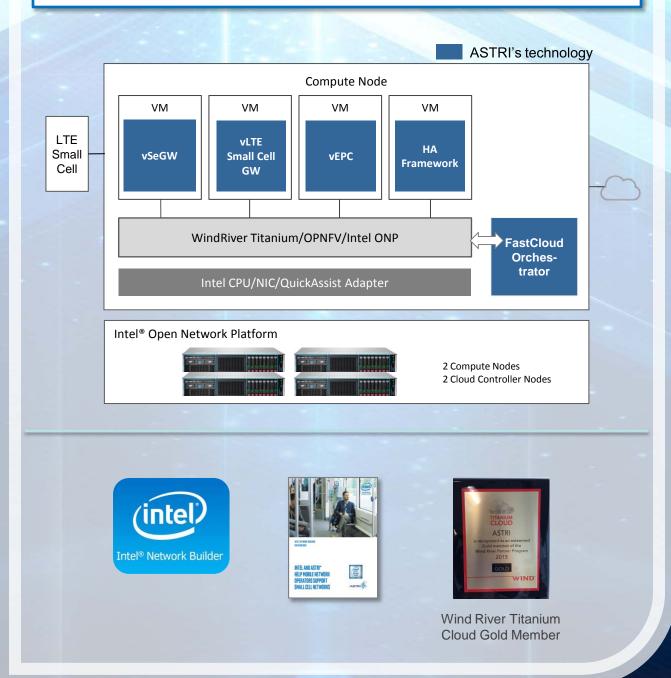
- Centralized BBU pool on x86 based server unit
- Distributed RRU units for flexible deployment
- · Virtualized LTE eNB cells powered by OpenStack software platform
- · Live migration capabilities for power saving
- High availability support to ensure continuous service during system failure
- Flexibility with MEC integration
- Cross cells, cross carrier cooperative handling to improve wireless gain
- · Enabled with location reporting features for indoor applications
- Support up to 96 cells with 64 active UEs per cell
- FDD/ TDD support





SDN/NFV

- Virtual Network Functions (VNFs) on Intel ONP/OPNFV Platform: vEPC, vSecurity Gateway, vLTE SmallCellGateway, and vWiFiAC
- Superior performance in NFV platforms
- ASTRI FastCloud Orchestrator to deploy VNFs with agility
- High Availability (HA) for carrier-grade solution



ASTRI Mobile Edge Computing (MEC)

- Optimize mobile traffic at mobile edge: latency (e.g. interactive, IoV applications), quality of experience (CDN)...
- Optimized throughput and latency for MEC applications
- Flexible to deploy in different LTE network segments

