

Virtual EPC/MEC on NGCO

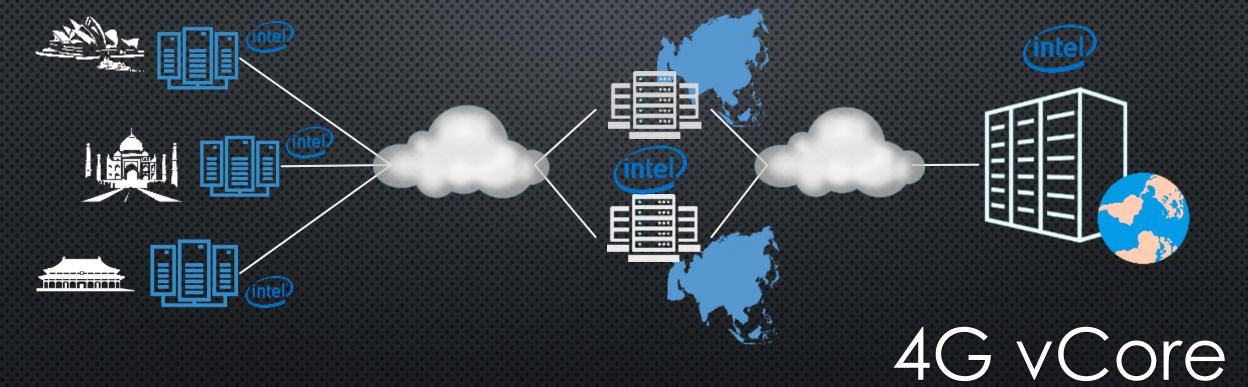


DEPLOY AND EVOLVE TO 5G WITH NGCO ARCHITECTURE

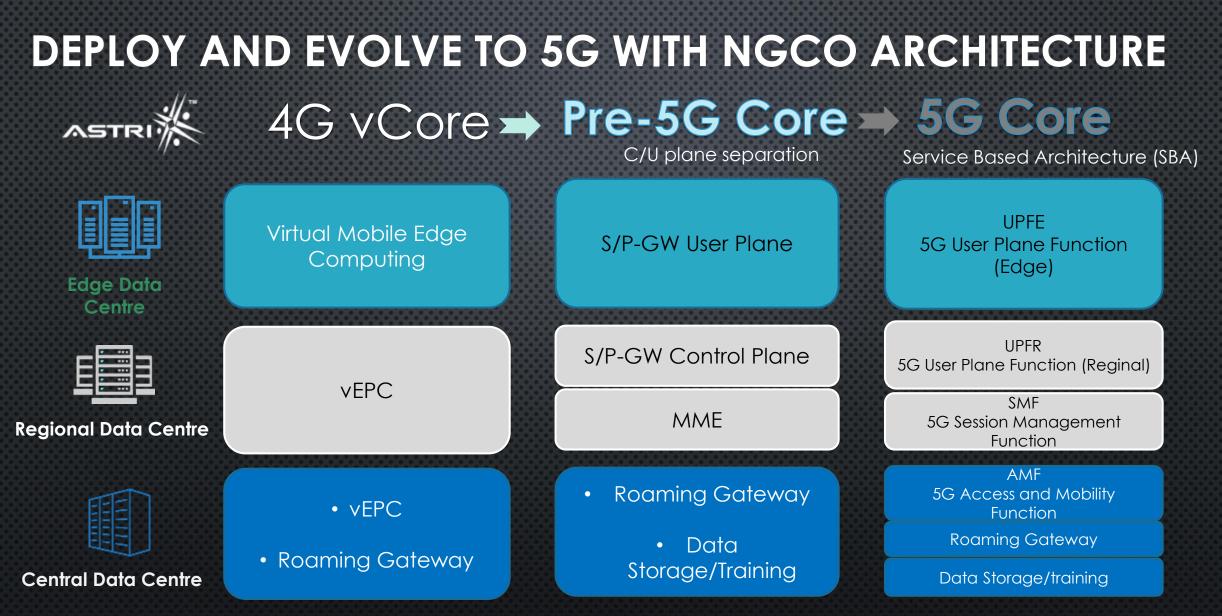
Edge Data Centre (DC)

Regional Data Centre (DC)

Central Data Centre (DC)



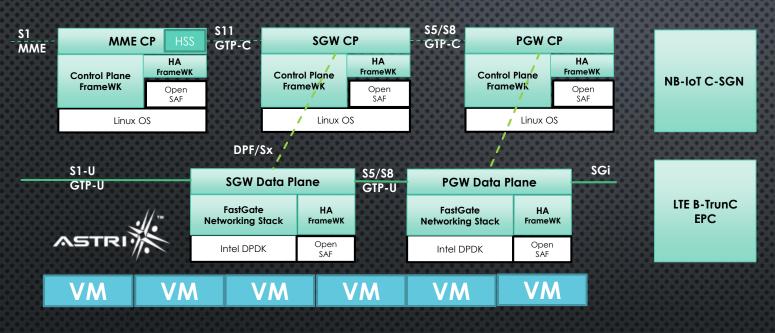
ASTRI virtual MEC enables time critical data offloads for MEC applications



ASTRI VIRTUAL EPC



Orchestration





Virtual EPC

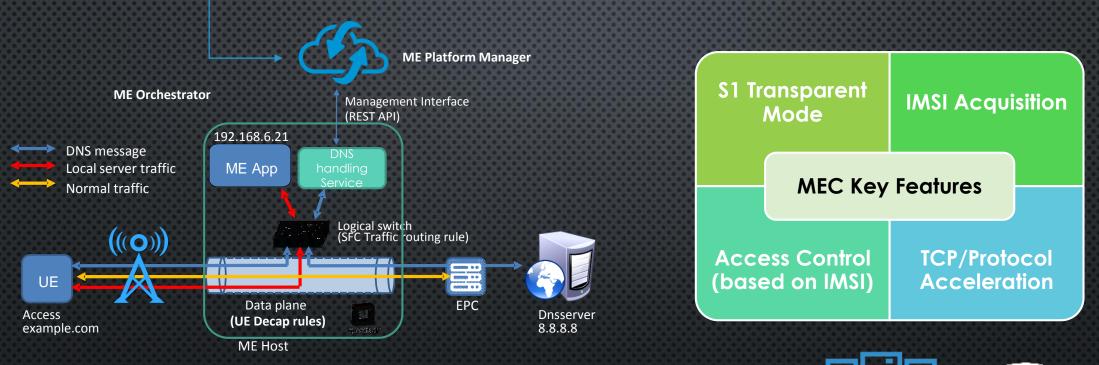
 <u>End-to-end</u>: End-to-end deployments, ideal for private network deployments

- <u>Virtualization:</u> Support virtualized or non-virtualized on general purpose x86 platform
- Evolving to 5G: support R13&R14 and ready to R15
- <u>Orchestration</u>: end-to-end NFV orchestration for virtual network functions (VNF)

ASTRI VIRTUAL MEC



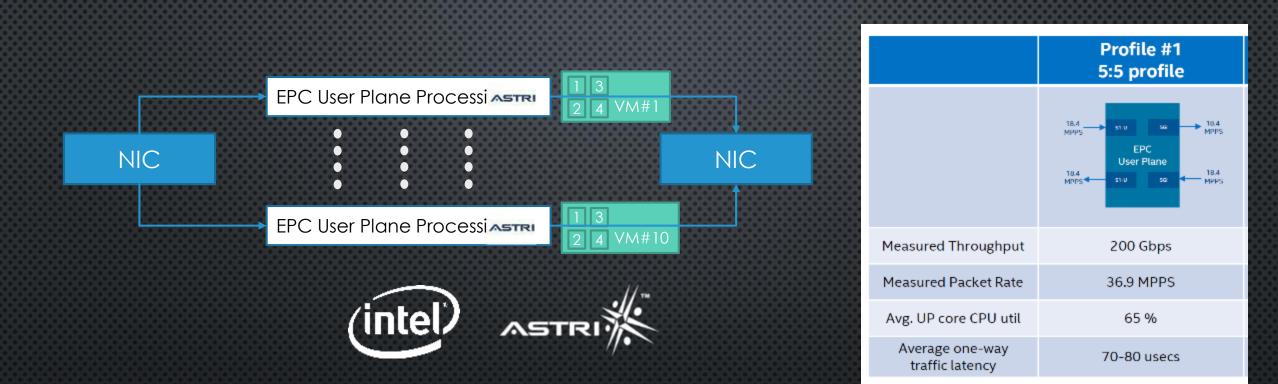
Orchestration





ASTRI MEC provides additional key features besides network offloading

VIRTUAL EPC – DELIVERS 200GBPS THROUGHPUT

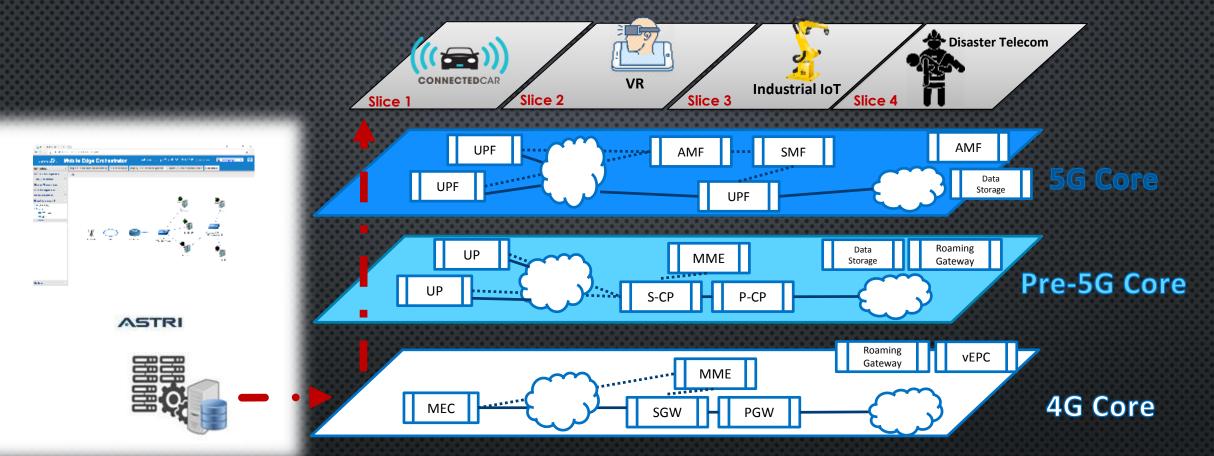


ASTRI: High Performance virtual EPC User Plane Processing stack Intel: Intel Scalable Processor Platform + NIC: load distribution to VMs with linear scale up

Intel and ASTRI delivers 200Gbps 4G/5G user plane throughput, while providing headroom for applications!

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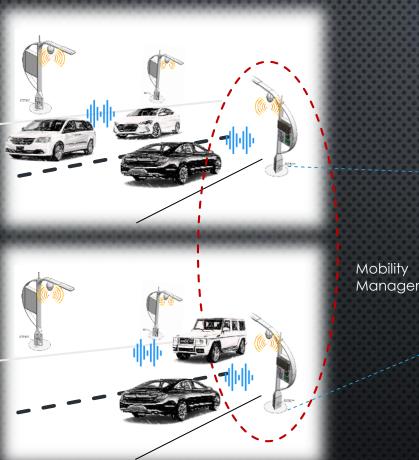
FLEXIBLE ORCHESTRATION IN NGCO



ASTRI FastCloud Orchestrator

facilitates wireless network functions deployment and manages complex applications deployment in NGCO!

ENABLING C-V2X NETWORKING SYSTEM IN NGCO



Edge Gateway (EGW) & Area Analysis Engine (AAE)

For specific local road environment analysis, real-time road situation monitoring, potential danger & traffic black spot identification, and generate alarms to individual vehicle in a local area

Network Cooperation Engine (NCE)

For real-time traffic management based on multiple local areas vehicles info from EGWs, in response to current traffic situations (like traffic congestion, accidents etc) with provisioned strategy plan & policy

V2X Management

For centralized V2X orchestration, traffic management, strategy plan & policy control to configure & provision different NCEs in wide area

