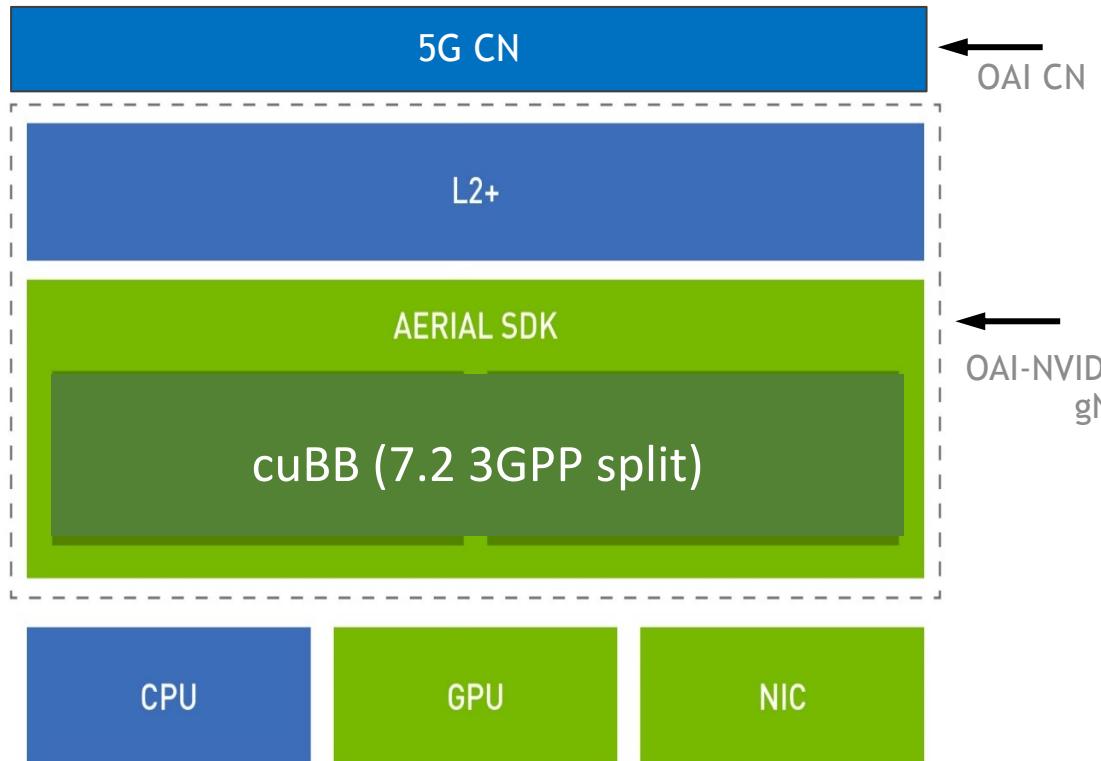


Demonstrating 5G Virtual RAN with NVIDIA Aerial SDK and OAI



Florian Kaltenberger, Ruben Silva, Luis Pereira (OpenAirInterface)
Nicholas Hedberg (NVIDIA)

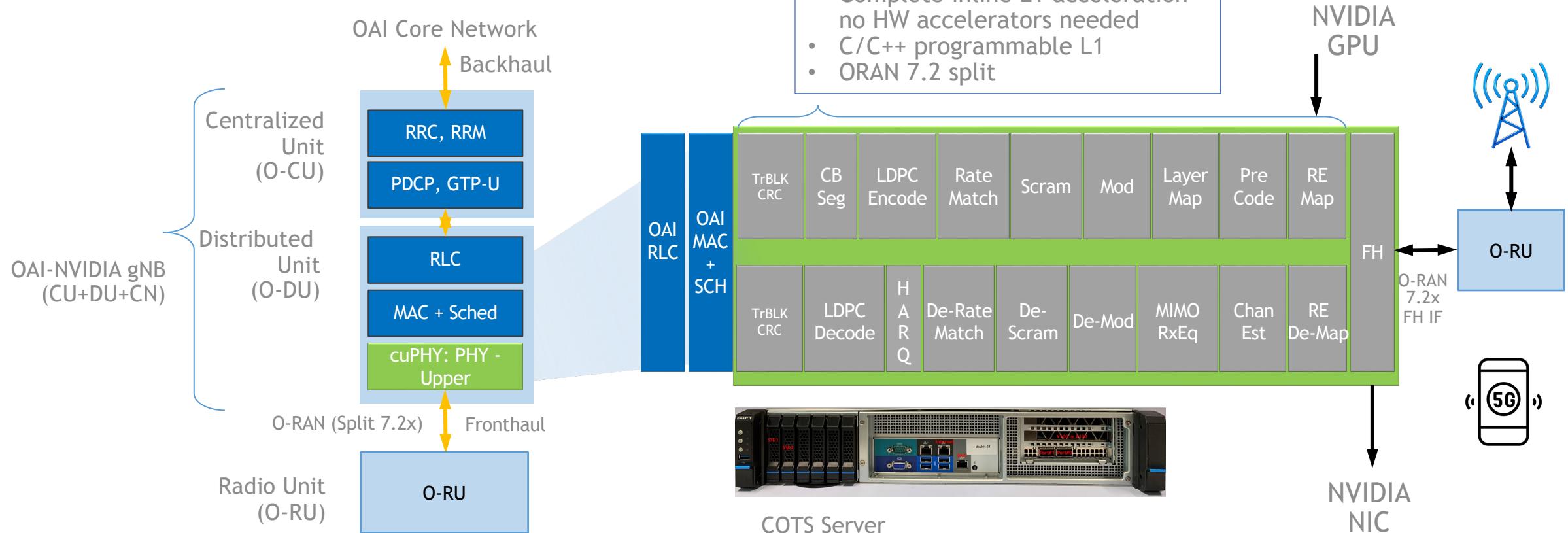
INTRODUCING NVIDIA AERIAL SDK



- NVIDIA Aerial™ Accelerated 5G Virtual Radio Access Networks (vRAN)
- Interoperable in ORAN 7.2 configuration with commercial RUs and UEs
- COTS Server hosted GPU, CPU, NIC
- Software defined and containerized workload
- Complete access to C/C++ source code for algorithm development and optimization



NVIDIA AND OAI INTEGRATED 5G NETWORK



Demo Configuration

Features	Current release	Next release
Frequency range		FR1
Subcarrier spacing		30kHz
Bandwidth		100MHz
TDD config		DDDSU
DL layer	2	4
UL layers	1	2
Number of cells	1	3