G REIGNS

5G PRIVATE NETWORK SOLUTION

CONNECTING VIVERSE

REIGN PROPRIETARY & CONFIDENTIAL

ABOUT G REIGNS

HTC has 20+ years experience in the communication products from 2G, 3G, 4G to 5G. To enable 5G opportunity in enterprise segment, HTC has spined off the 20 years experienced 5G team to *“G Reigns”*, 100% HTC subsidiary.

G Reigns is a small but solid team with only 50 employees and 90% are engineers. It focuses in ***5G O-RAN vRAN*** software stack for private network. Its vision is to provide the optimized private 5G network service to help enterprise digital transformation.

Viverse / Manufacture
3D Virtualization with XR

AOI
Surveillance
AI Camera

VR/XR
Training

Energy
Wind Farm

Telemedicine

Education

G REIGNS

VRAN SOLUTION PROVIDER

intel. G REIGNS RAN Capgemini

O-RU

Intel FlexRAN

NR-H-PHY L1

SYNC

eCPRI

FPGA

FEC

CU RRM/RRC/PDCP L3

DU RLC/MAC L2

DPDK

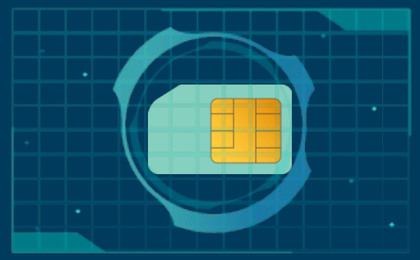
Real-time Linux

5G Core

O-RAN Global PlugFest Spring 2022 Plugged in PlugFest

UL throughput
(up to 350Mbps)

DL throughput
(up to 1Gbps)



SIM status

UE
attached

System & Network
Information

The architecture of G REIGNS RAN consists of Centralized Unit (CU), Distributed Unit (DU) and FlexRAN (L1) specialized in UL Centric, DL Centric and VR Traffics. With a one-stop management interface, users can manage the network effectively and comprehensively.

htc
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OUR ADVANCEMENT

PRIVATE 5G MADE SIMPLE

Secured & Privately Stationed 5G service

Mission Critical Bandwidth & Latency

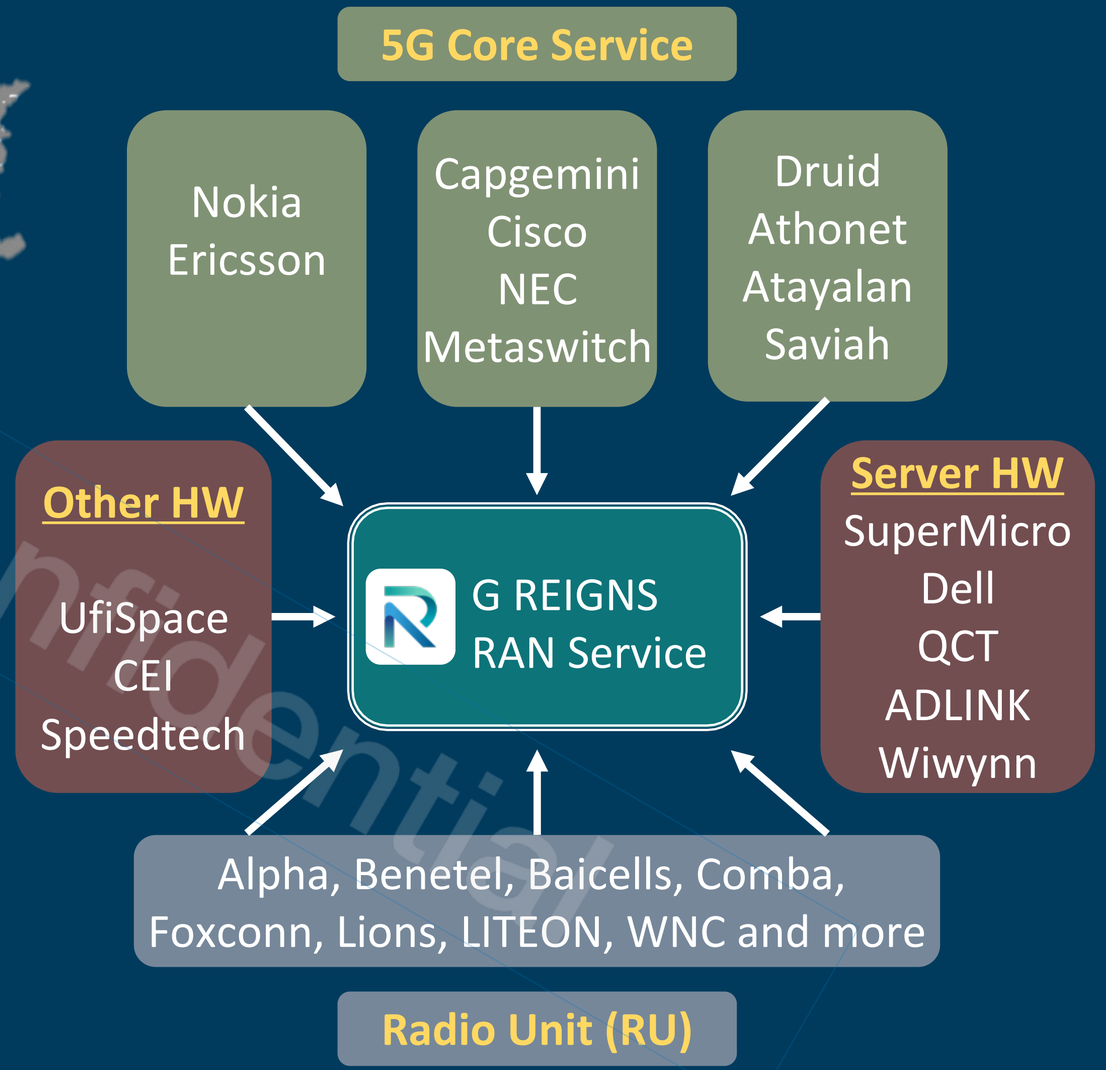
Highly Scalable O-RAN Deployment

Cost Efficient Digital Transformation

VRAN PRIVATE 5G ADVANCEMENT

Max. DL 1Gbps Max. UL 350Mbps	Low Latency ~10ms	Radio Unit up to 40M radius (Indoor)	Use Case Integration Optimized

G REIGNS & GLOBAL ECOSYSTEM



G Reigns Confidential

BUSINESS PORTFOLIO

REIGN CORE SERIES

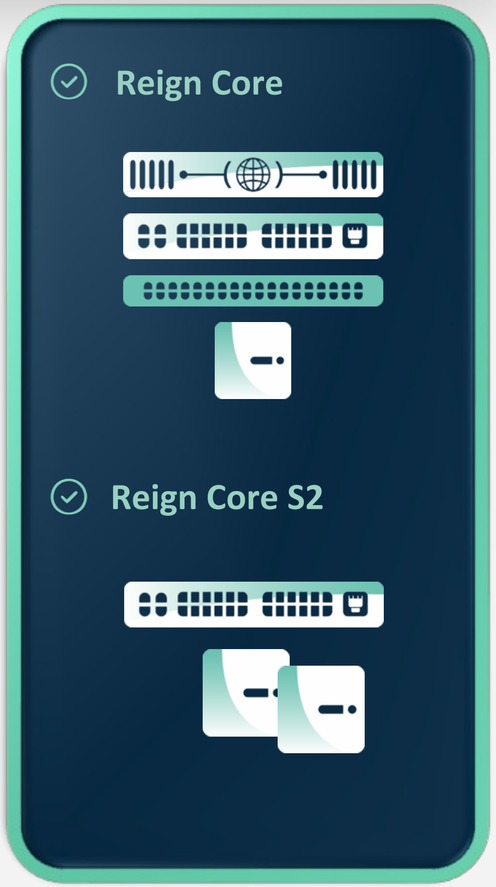
Standard Package (PoC or Buyout)

Plug & play simplicity in one mobile package. Keep versatility for expansion

Reign Core Series

(5G portable box)

5GC + BBU + RRU



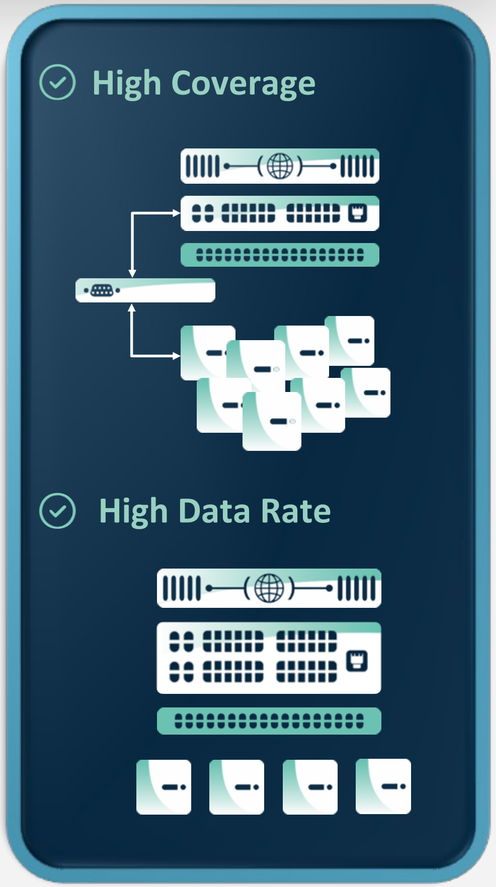
VRAN SOFTWARE

Project Based End-to-end solution

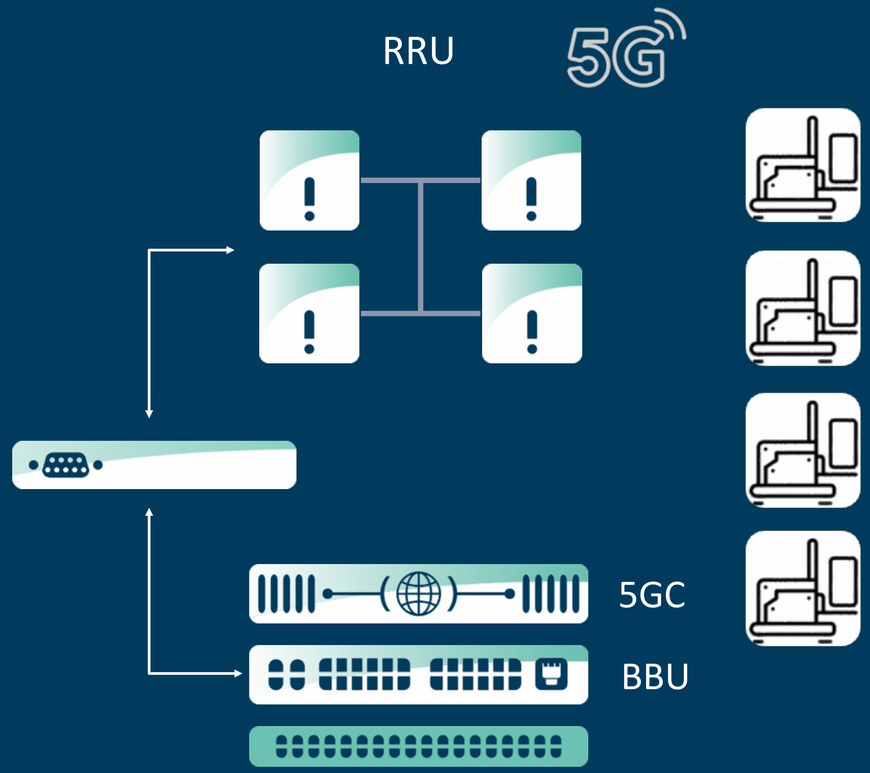
Use case specific scaling with optimization on applications leveraging best of HTC VIVE such as XR on edge & AI

Choose from trusted COTS:
Supermicro, QCT, Ufispace etc.

5GC tested:
Ericsson, Nokia, Cisco, NEC, etc.

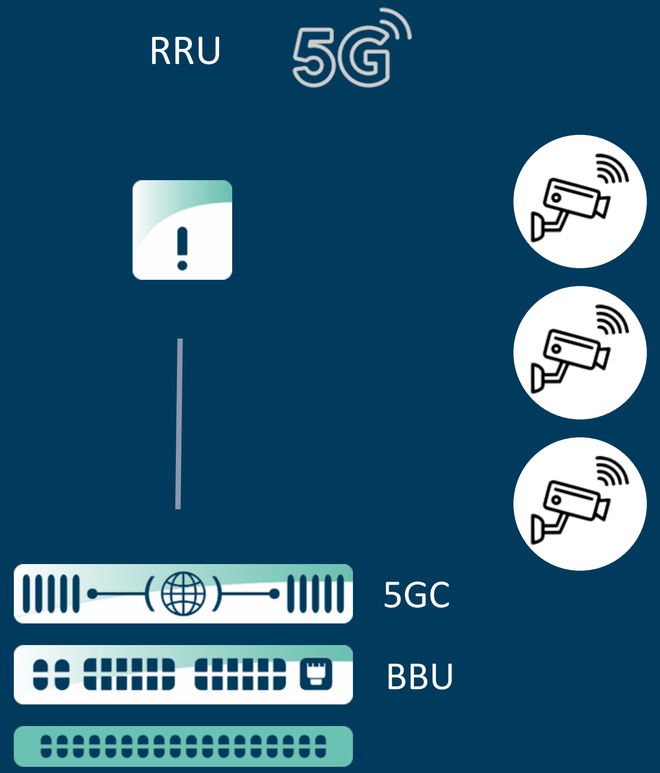


G REIGNS @ SMART MANUFACTURING



Case 1

In the production line of the factory, in order to let material handling work more flexibly with AGVs , four RUs are deployed in a space with four compartments within 55m*70m, and the four AGVs can pass through the 5G network in the entire field. The network performs smooth handling tasks and monitoring, and immediately returns the results and provides warning messages without any waiting of re-registration during roaming.



Case 2

In the factory, in order to reduce industril accidents and improve efficiency, a small-scale 5G network coverage is deployed in the automatic storage area of 10m*15m. There are three high-definition cameras are provided for AI monitoring with Real-time feedback and AI discrimination results.

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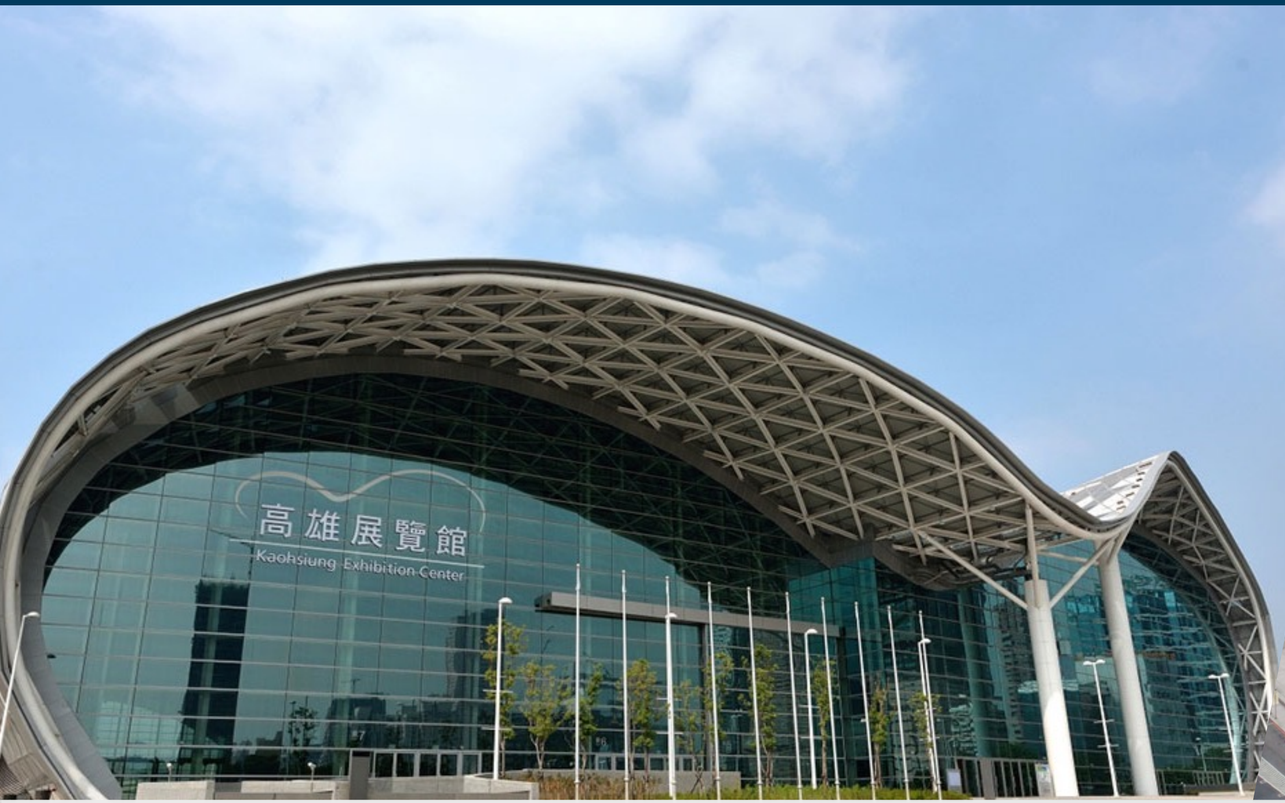
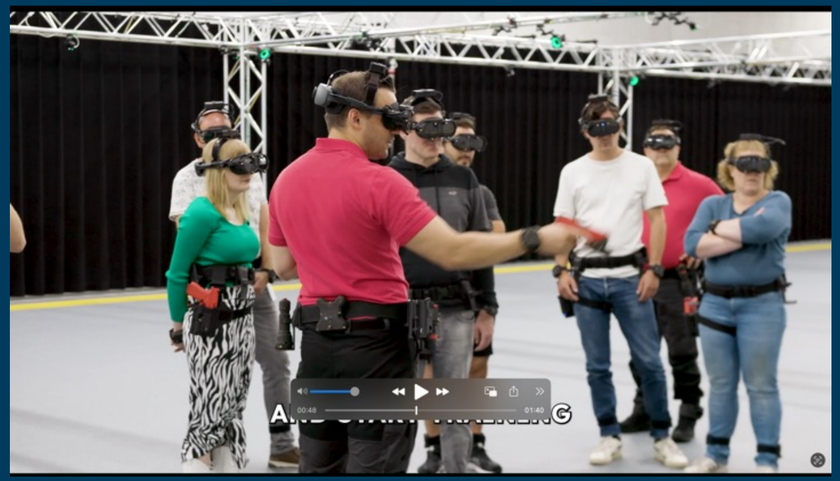
CAMPUS @ TW



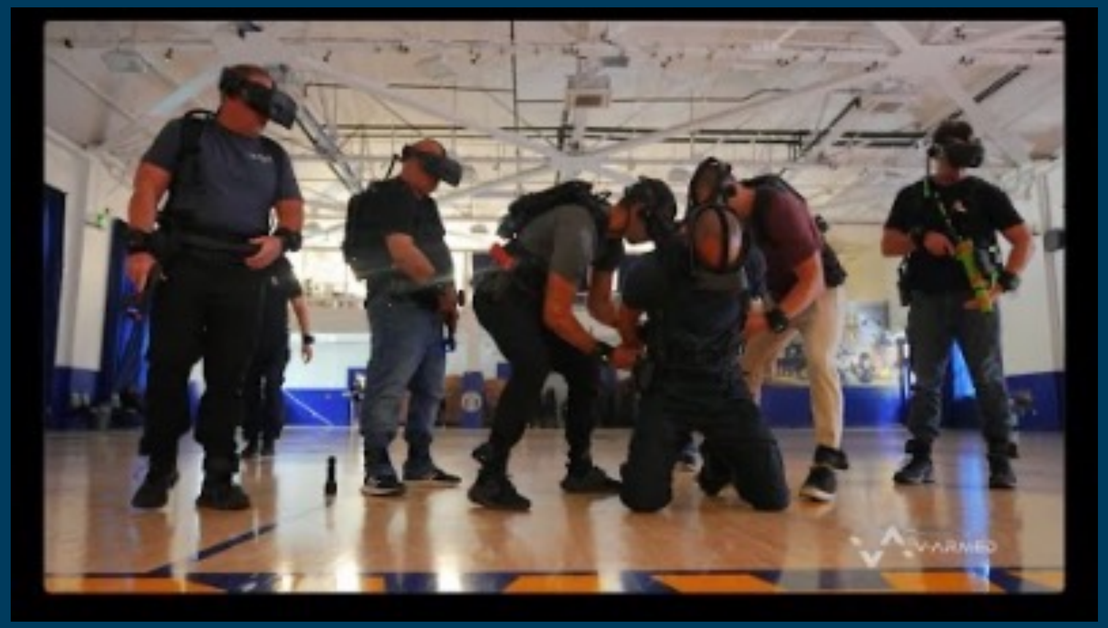
KAOHSIUNG EXHIBITION CENTER (KEC)

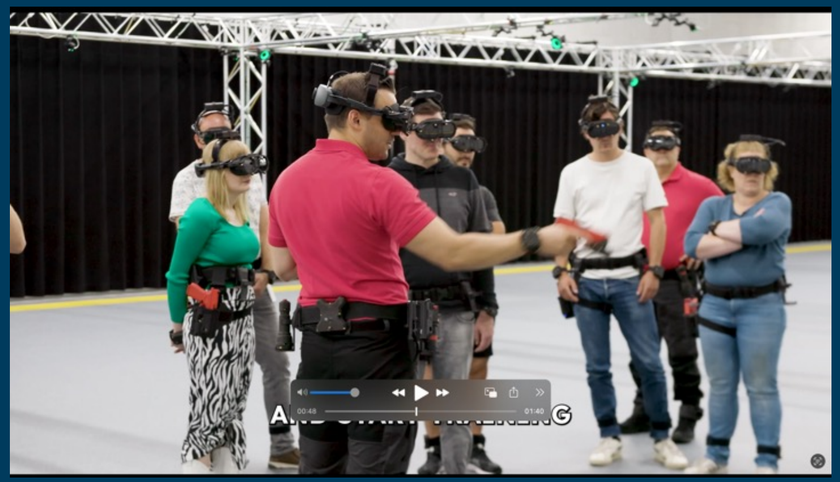
NATIONAL THEATER & CONCERT HALL

PRIVAETE 5G TO ELEVATE THE VR TRAINING EXPERIENCE



PRIVAETE 5G TO ELEVATE THE VR TRAINING EXPERIENCE





THANK YOU