



Agencia Nacional del Espectro



# XI CONGRESO INTERNACIONAL DE ESPECTRO

HABILITADOR DE DESARROLLO  
Y COMPETITIVIDAD

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El futuro digital  
es de todos

MinTIC

# Radio ACCESS Network (RAN)

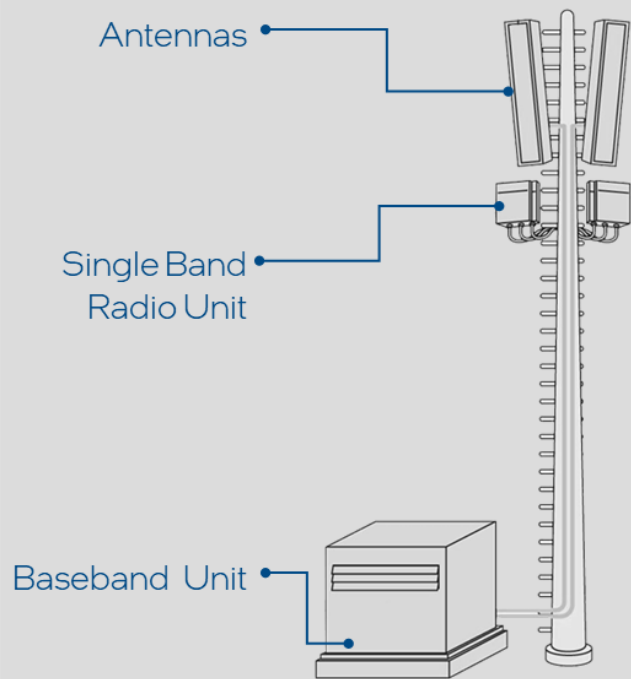
- Mobile networks serve more than 9 billion connections and generate almost \$1 trillion in service revenue annually<sup>1</sup>.
- Radio access network (RAN) is the most important distributed network infrastructure in the world.
- RAN is most expansive part of mobile networks in terms of CAPEX and OPEX.
- Challenge to deliver additional capacity, cost savings, service agility, and scalability to meet future demand.
- Core networks are already using the benefits of virtualization however RAN is lagging.
- RAN architectural is evolving in stages from the traditional distributed model to centralized to fully virtualized implementations.

<sup>1</sup> According to research firm Omdia

<sup>2</sup> Covering active base station equipment and antennas, but excluding power supplies, cable, install costs, civils, passive antennas, etc.

# Transforming the Network for Open RAN

## Existing System



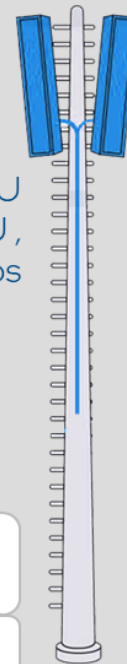
## NEW System – CloudRAN

- Cloud Native for Flexible Network Infrastructure
- Centralization for improved pooling gains

RRU  
Multi-band RRU,  
Antenna Integrated Radios

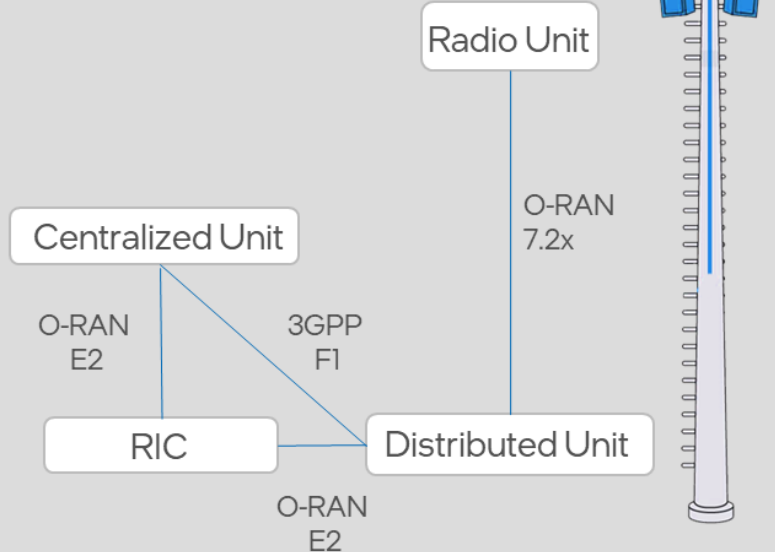
Virtualized  
Centralized Unit  
COTS HW

Virtualized  
Distributed Unit  
COTS HW



## NEW System – Open RAN

- Open Interfaces for domain innovation
- RIC for cloud based Network AI



# Top Reasons for Adopting Open, Virtual RAN



Common  
Hardware  
Platform



Hardware  
and Software  
Disaggregation



Faster  
Innovation



More Robust 5G  
Ecosystem



Cloud Native  
Benefits



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