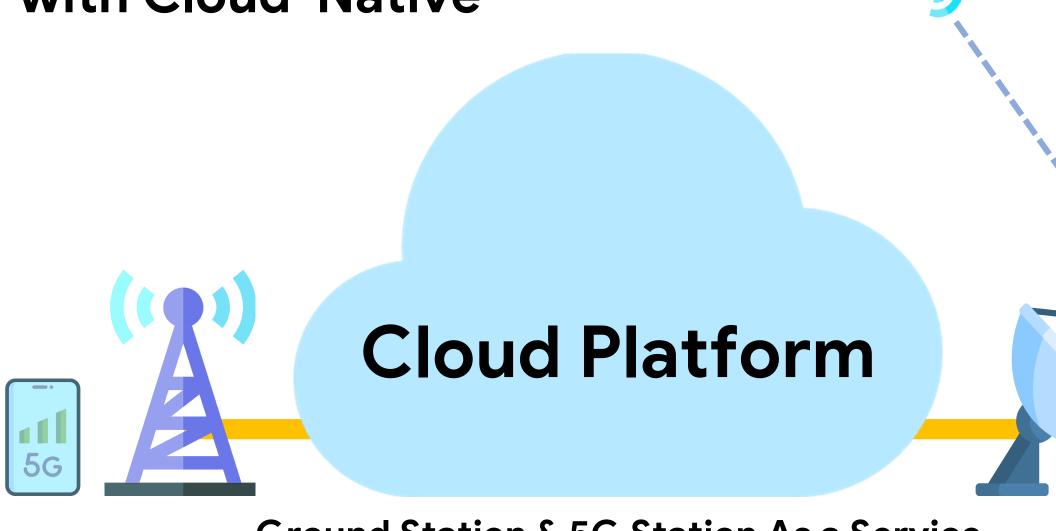
# Cloud-Native Solution of Integrate Ground Station And 5G Station



2023 RUNSPACE INNOVATION CHALLENGE

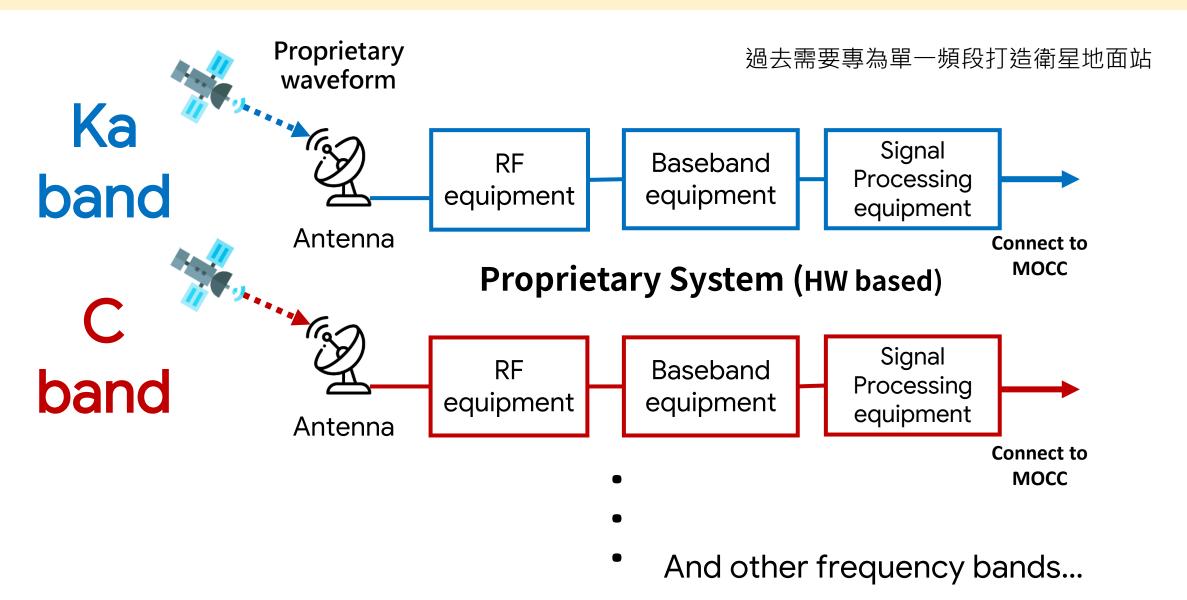


## Reimagining Ground Station with Cloud-Native



**Ground Station & 5G Station As a Service** 

### Need to Customize each Ground station for each Different Frequency Band



#### **Traditional Ground Station Problem**



#### 廠商壟斷

( Vendor lock-in )



#### 成本過高

( High Cost )



#### 限制創新

(Limit Innovation)



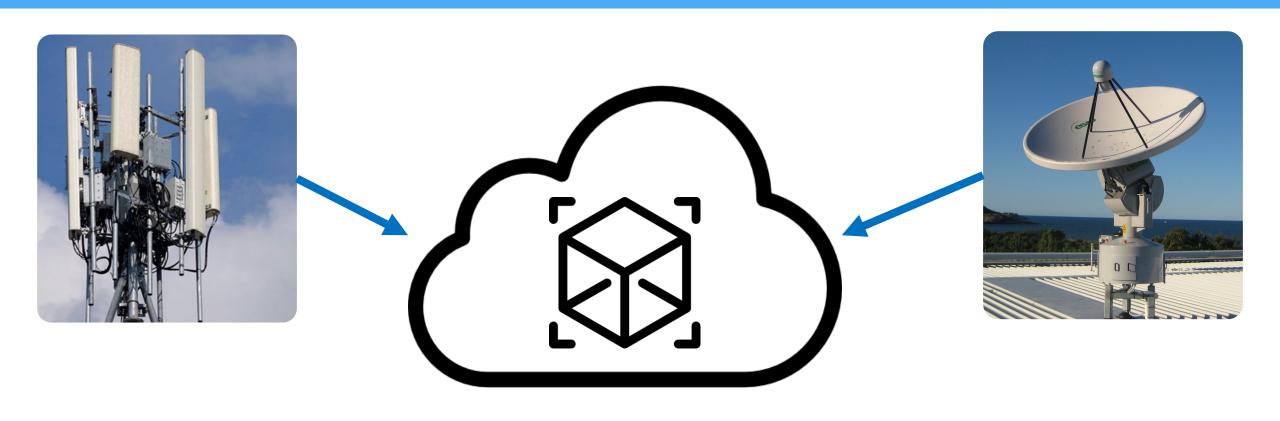
#### 佔用空間

(Occupied Space)

**Slowdown Space Industry Development** 



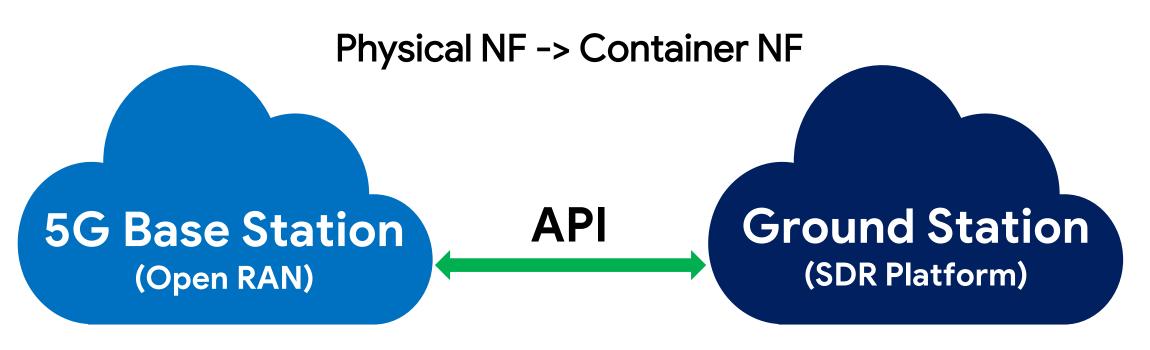




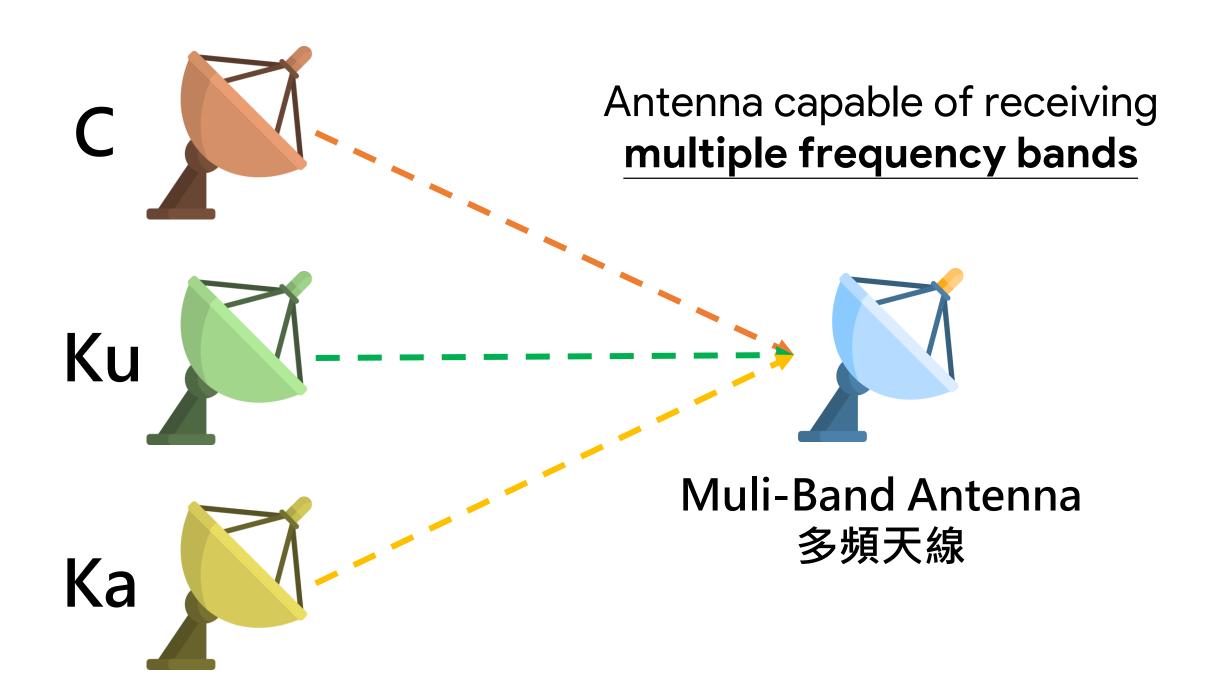
#### **Network Functions Virtualization**

Make Ground Station & 5G Station Cloud-Native

# Cloud-Native Reduce "OAM Cost" & "Space Occupied"



**Smooth Connection via Open API** 



#### Challenge of Multi-Cloud Management

Company want to Effectively use "Cloud-Native" Benefits, but they got many problems:

#### Consistency (架構不一致):

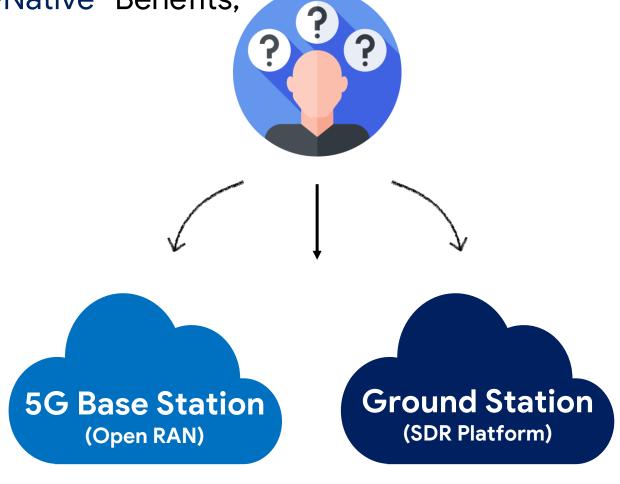
Architecture of each Cloud Platform is Different. Requires More Time to Understand and Adapt to.

#### Visibility (無法總覽狀態):

Dashboard of each Cloud Platform is Independent, Lack of One-Stop Platform for Info Visualization.

#### Complexity (維運管理複雜):

Need to Management, Operation and Maintenance Multi-Cloud at the same time.



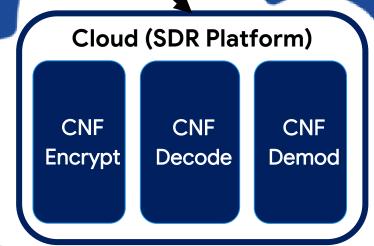


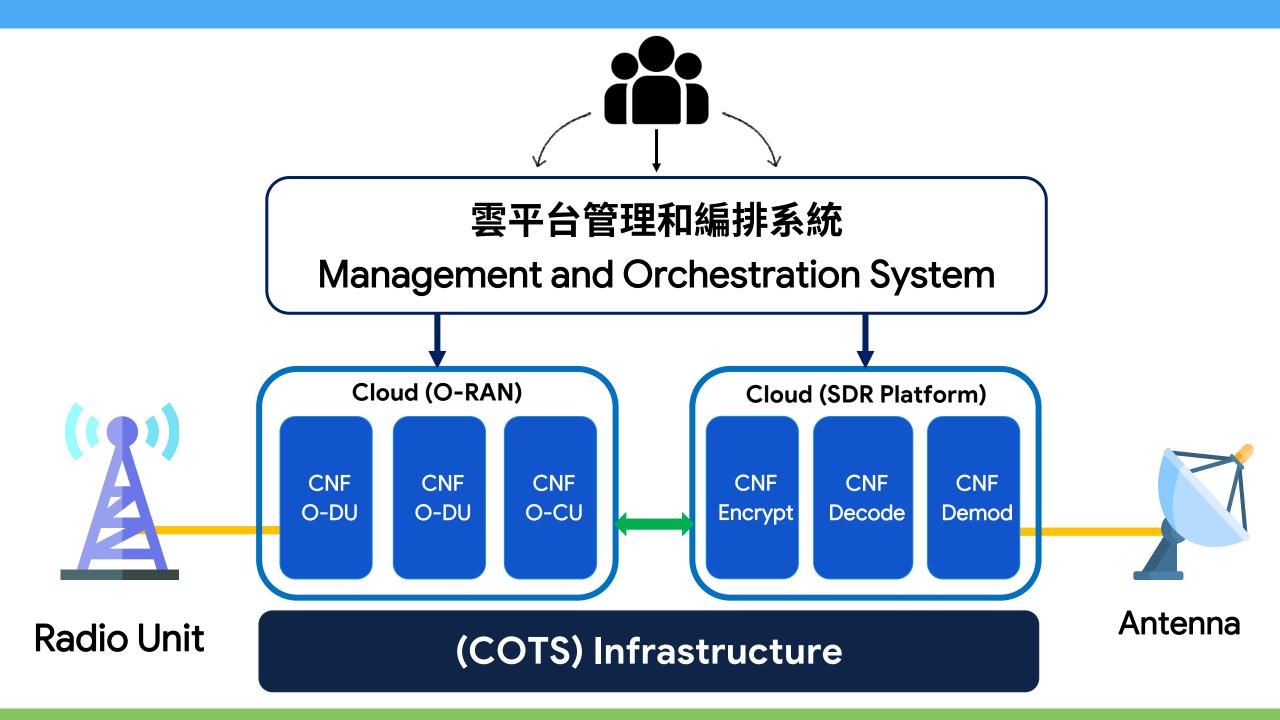
Avoid Data Silos 避免數據孤島

Cloud (Open RAN)

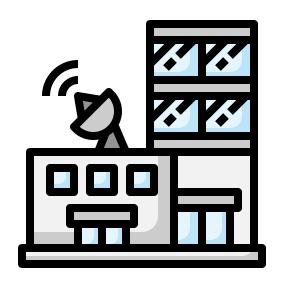
CNF
O-DU

CNF
O-CU

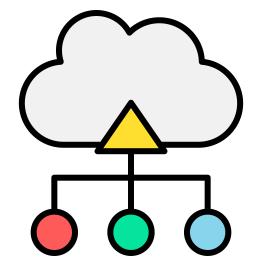




#### Value Proposition



**Ground Station As a Service** 



**Satellite Communication Integrated services** 



Systems Engineering Consulting Services

#### Target Audience

#### Multinational Corporation:

- TSMC (台積電)
- Advantech (研華)
- Foxconn (鴻海)
- Quanta (廣達)

#### **Solution Reduce Cost:**

- Academic Research
- Companies who want to reduce cost

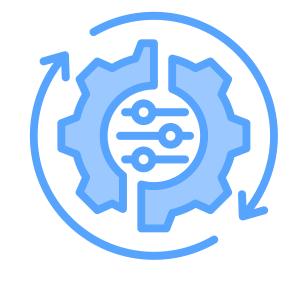


#### Competency Partners



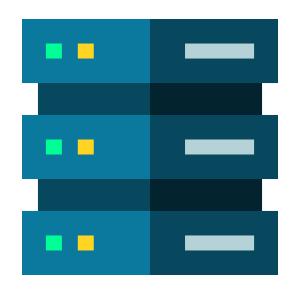
RF Module Manufacturer

RF 模組廠商



**System Integrator** 

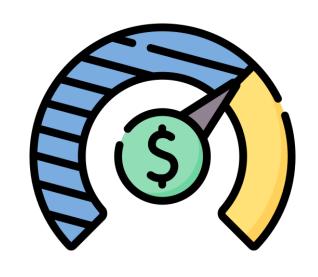
系統整合商



Server Manufacturer

伺服器廠商

#### Charging Methods 收入方式



按使用量計費 (Pay-as-you-go)



按訂閱計費 (Subscription)

