



# Enabling Pet Friendly Zones via 5G nEdge

5G nEdge: Your Smart City Enabler



# Introduction to the Company

Confidential

# Our Founders



Prof. PC CHING



Prof. Soung LIEW



Prof. Raymond YEUNG



Prof. Patrick LEE

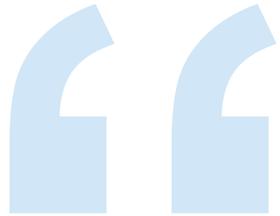


Joseph WONG



Aldous NG

# How Gartner Described Unissoft/CU Coding ...



“Unissoft/CU Coding is a ***notable player*** in the arising ***Intelligent Infrastructure market***. Her data repair capability is really impressive. A focus on the intelligent infrastructure automation is the differentiator.”

Philip Dawson, VP Analyst at Gartner

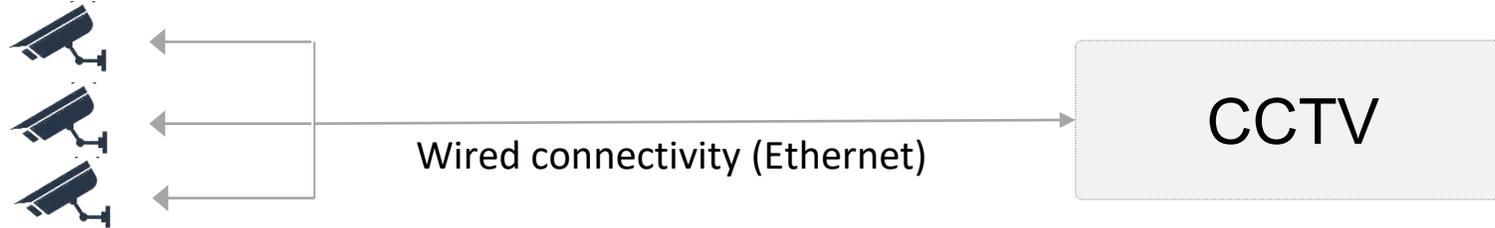
**Gartner**<sup>®</sup>



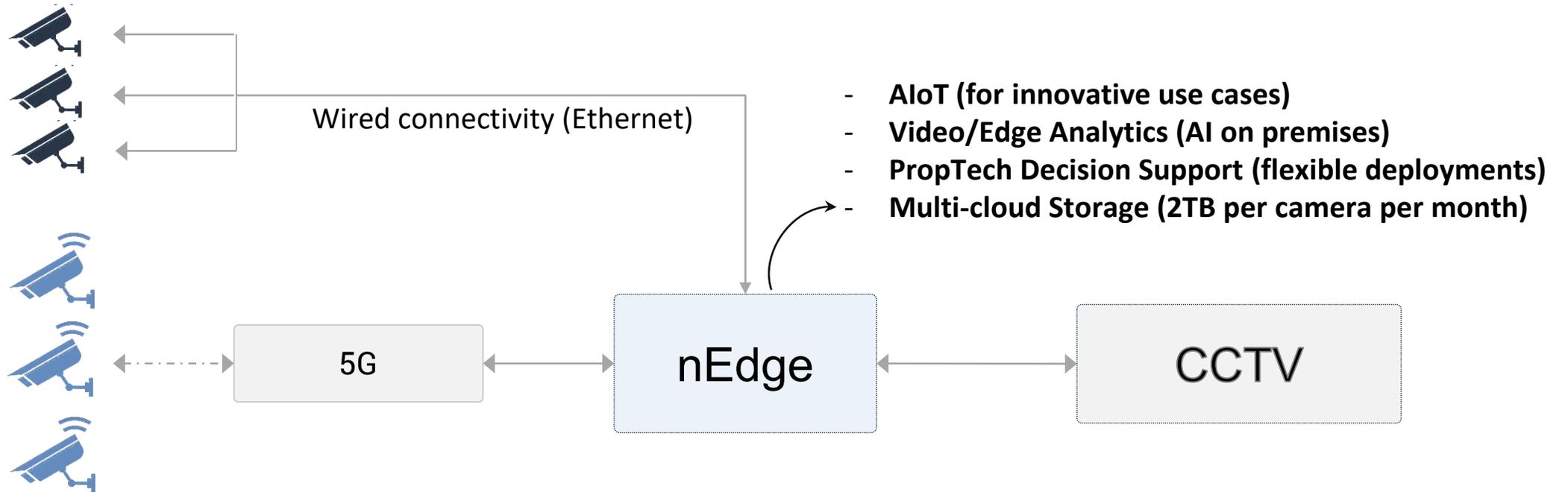
# Use Cases

# Traditional CCTV vs nEdge 5G CCTV

## Traditional CCTV Solution



## nEdge based 5G CCTV Solution





**SmarTone 5G**



**Press Release  
For Immediate Release**

**Cyberport, Ericsson, SmarTone and Unisoft Join Hands to  
Develop New 5G Applications  
Form Hong Kong's First 5G Edge Computing Deployment  
Scenario Used at Cyberport and Unleash the Power of 5G  
Technology**

Hong Kong, 3 August 2021 – Hong Kong Cyberport, Unisoft - Cyberport Incubation Programme Alumni, SmarTone, and Ericsson announced a partnership to build Hong Kong's first Multi-access Edge Computing (MEC) deployment scenario at the Cyberport campus and capture the benefit of 5G communication technology. Developed by Unisoft and supported by a 5G MEC system architecture designed by SmarTone, this deployment scenario combines SmarTone's 5G network with the Ericsson Enterprise Edge Link, becoming the first project in Hong Kong to adopt it in a commercial capacity and the first batch of projects in Asia. The first use case will be the Pet Monitoring System at Arcade@Cyberport, estimated to be operational in October this year.



**SmarTone 5G**



This is one of the first Ericsson Enterprise Edge Link collaborations in Asia to support commercial use, and this installation provides technology enterprises the capacity to adopt 5G edge computing at a lower cost and conducive to the technology popularisation.

A photograph of a modern university campus. In the background, a large, curved building with a glass facade and a central tower-like structure is visible. The foreground features a wide, green lawn with a paved path. Several people are walking on the path, and a person is sitting on the grass with a dog. The scene is bright and sunny, with trees and a clear blue sky.

**Use Case 1:**  
**Cyberport**  
**Enabling Pet-friendly Zones by 5G and AI**

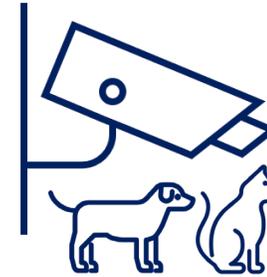
# Key Selling Points



1st Ericsson 5G  
MEC installation in  
the world



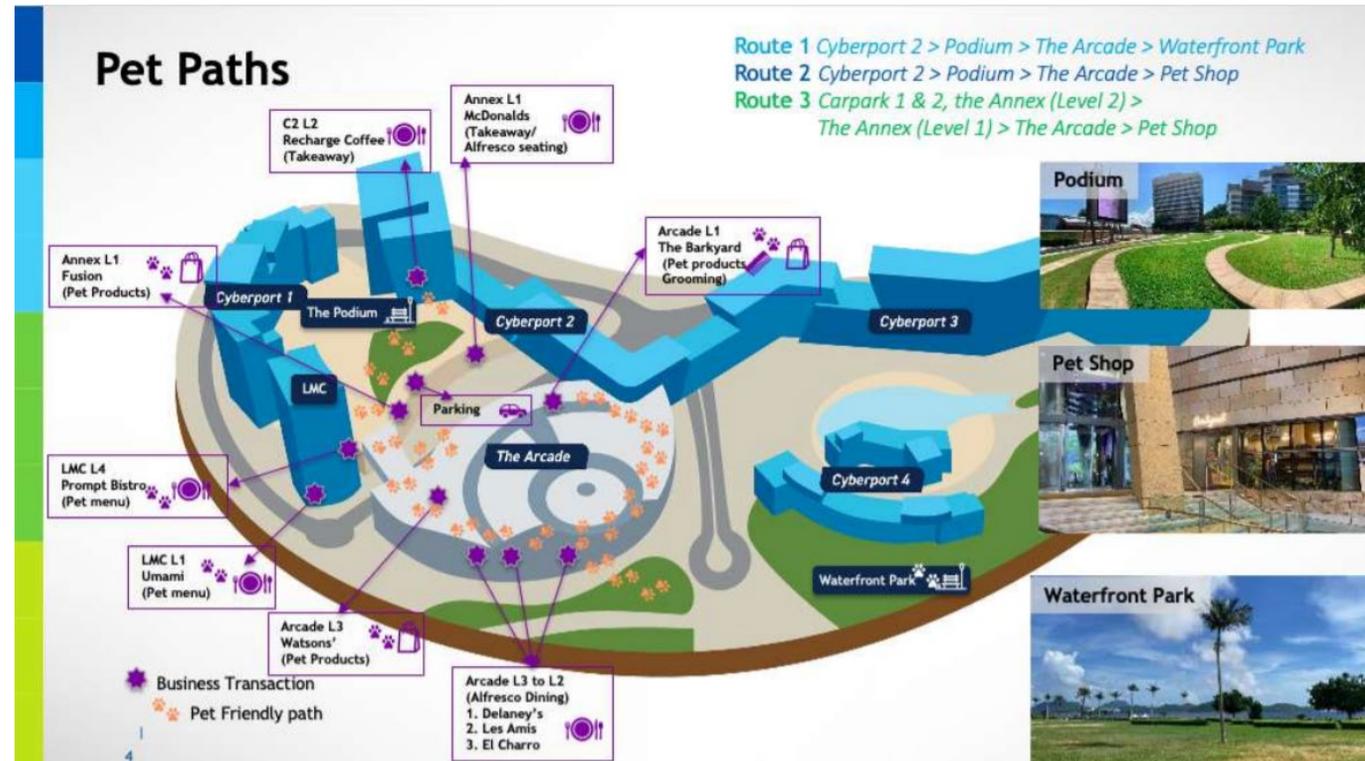
1st 5G MEC in  
Hong Kong  
powered by nEdge



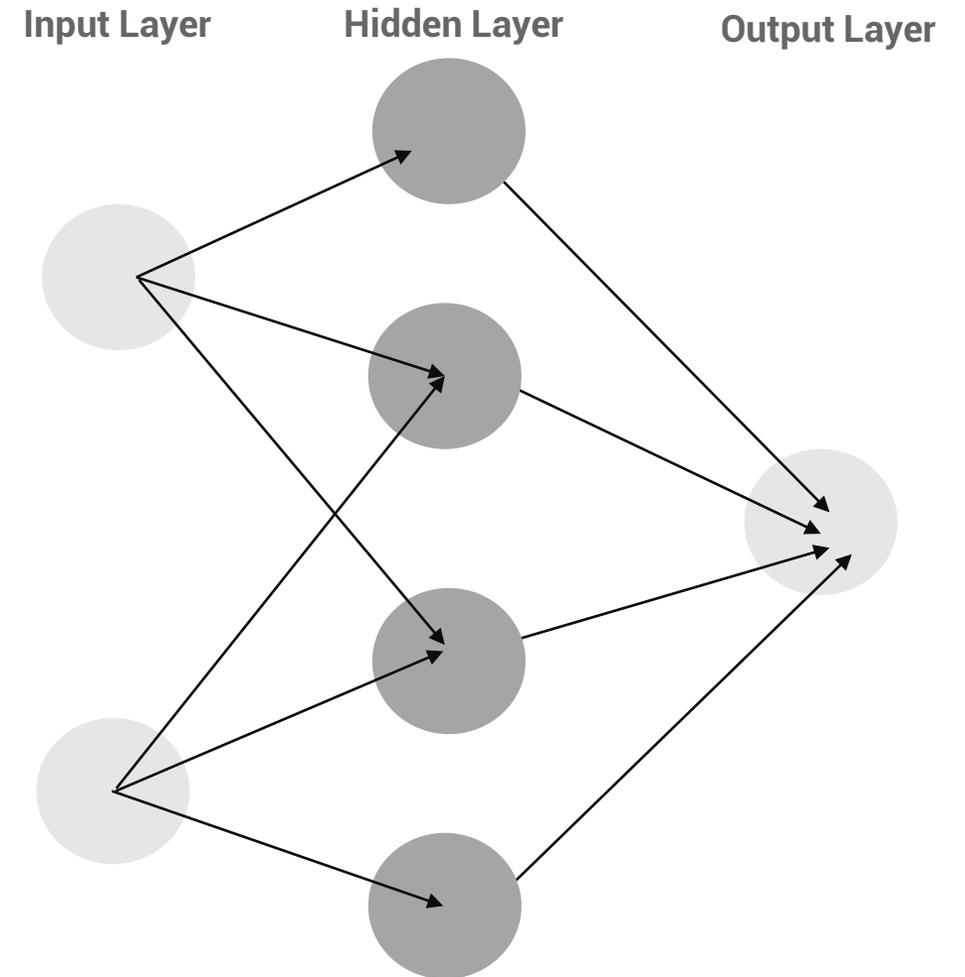
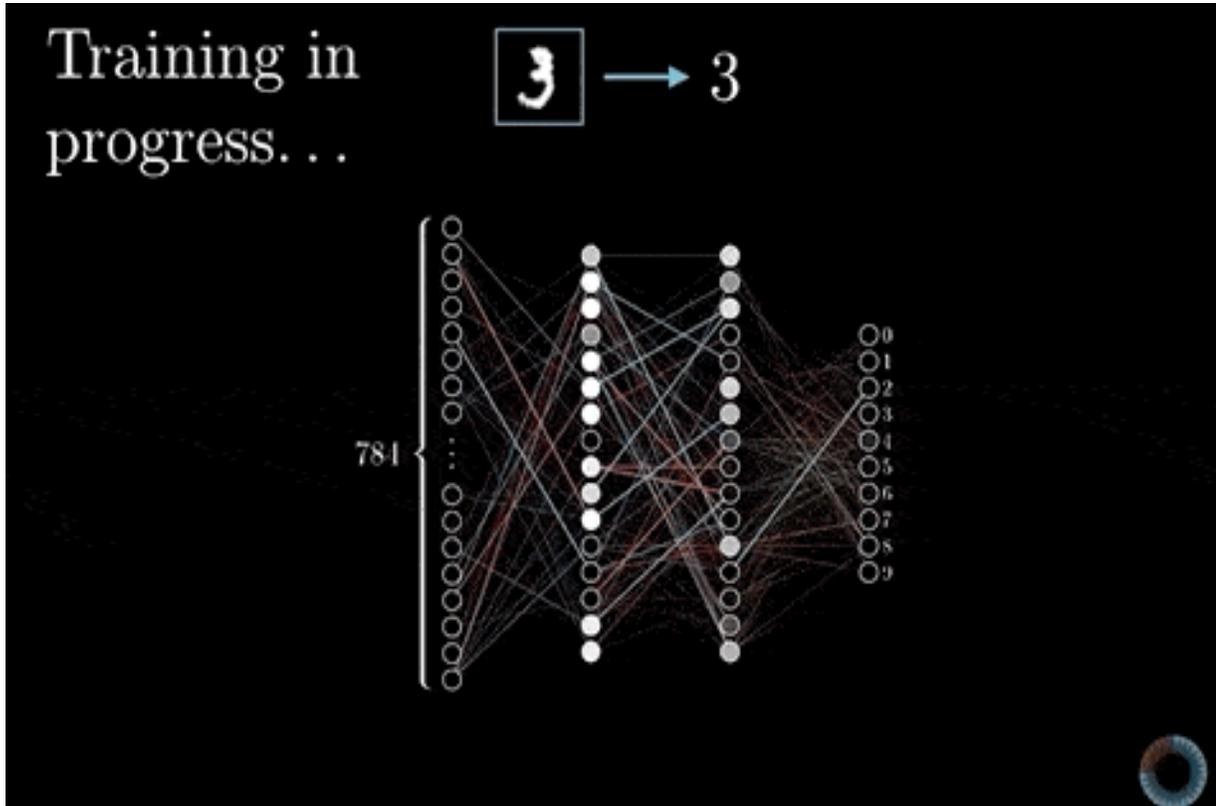
Pet-friendly  
monitoring in the  
campus by AI  
technology

# Pain points | Cyberport Pet Friendly Environment

- High Costs in Hiring  
Pet-dedicated Security Guards
- Inaccurate Manual Pet Counting
- High Maintenance Geo fencing & Alerts
- Expensive Traditional Wired CCTV

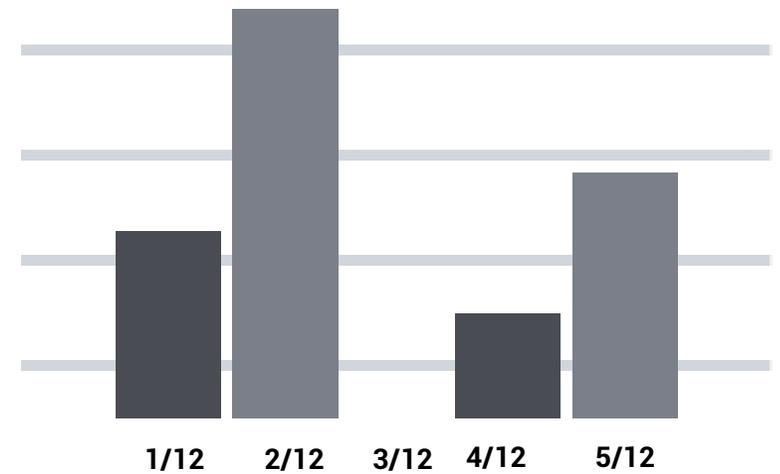
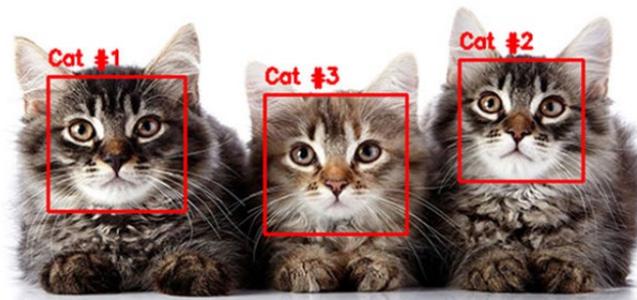
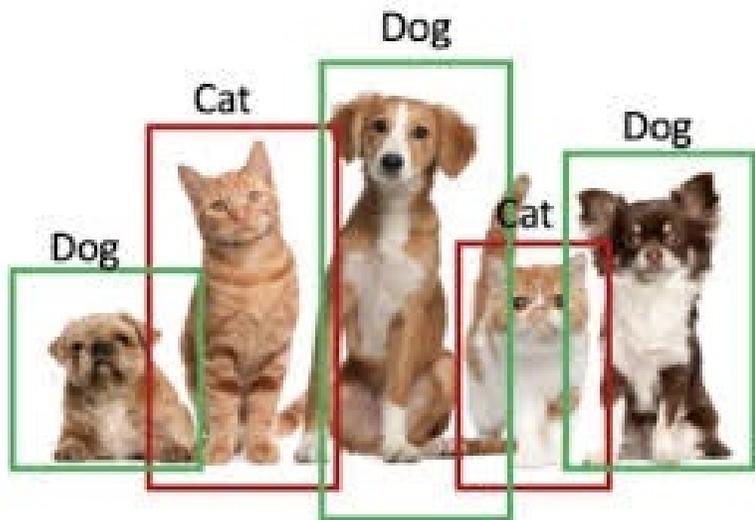


# nEdge Runs AI Centrally

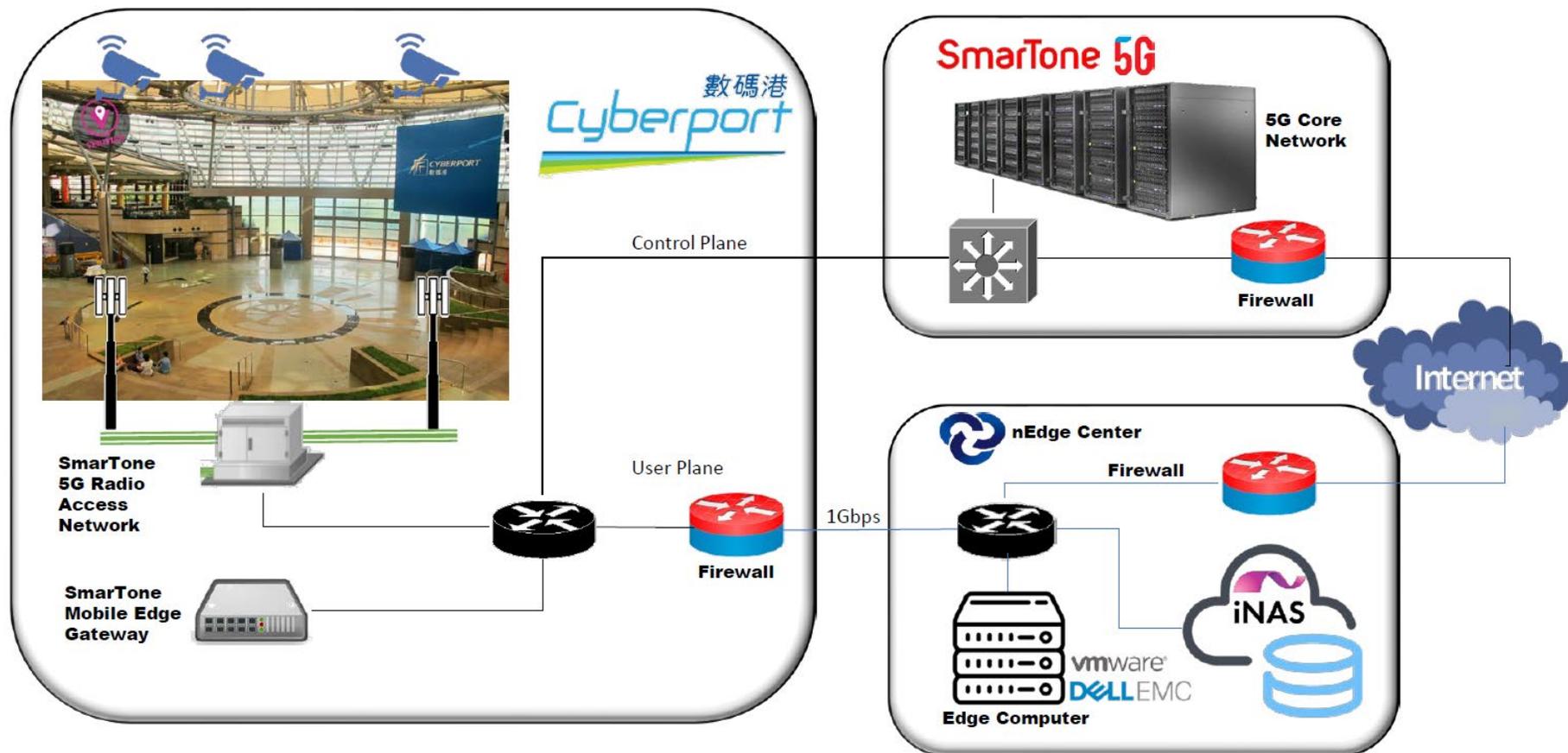


# Benefits

1. Pets Counting & Geo Fencing
2. No Need for Cabling
3. Strong ROI by Saving 3 Guards
4. Labor Counting Inaccurate
5. Realtime Dashboard



# 5G nEdge enabled Smart CCTV at Cyberport



A photograph of a modern, multi-story university building with a central entrance featuring a large crest. The building is surrounded by greenery and a wide set of stone steps in the foreground. The sky is blue with scattered white clouds. The text is overlaid on the left side of the image.

**Use Case 2:**  
**CUHK**  
**5G Surveillance and Smart Campus**

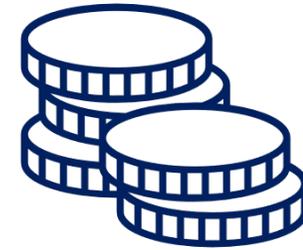
# Key Selling Points



5G surveillance  
overcomes remote  
sites without fiber



AI for Incident  
Detection and  
Surveillance

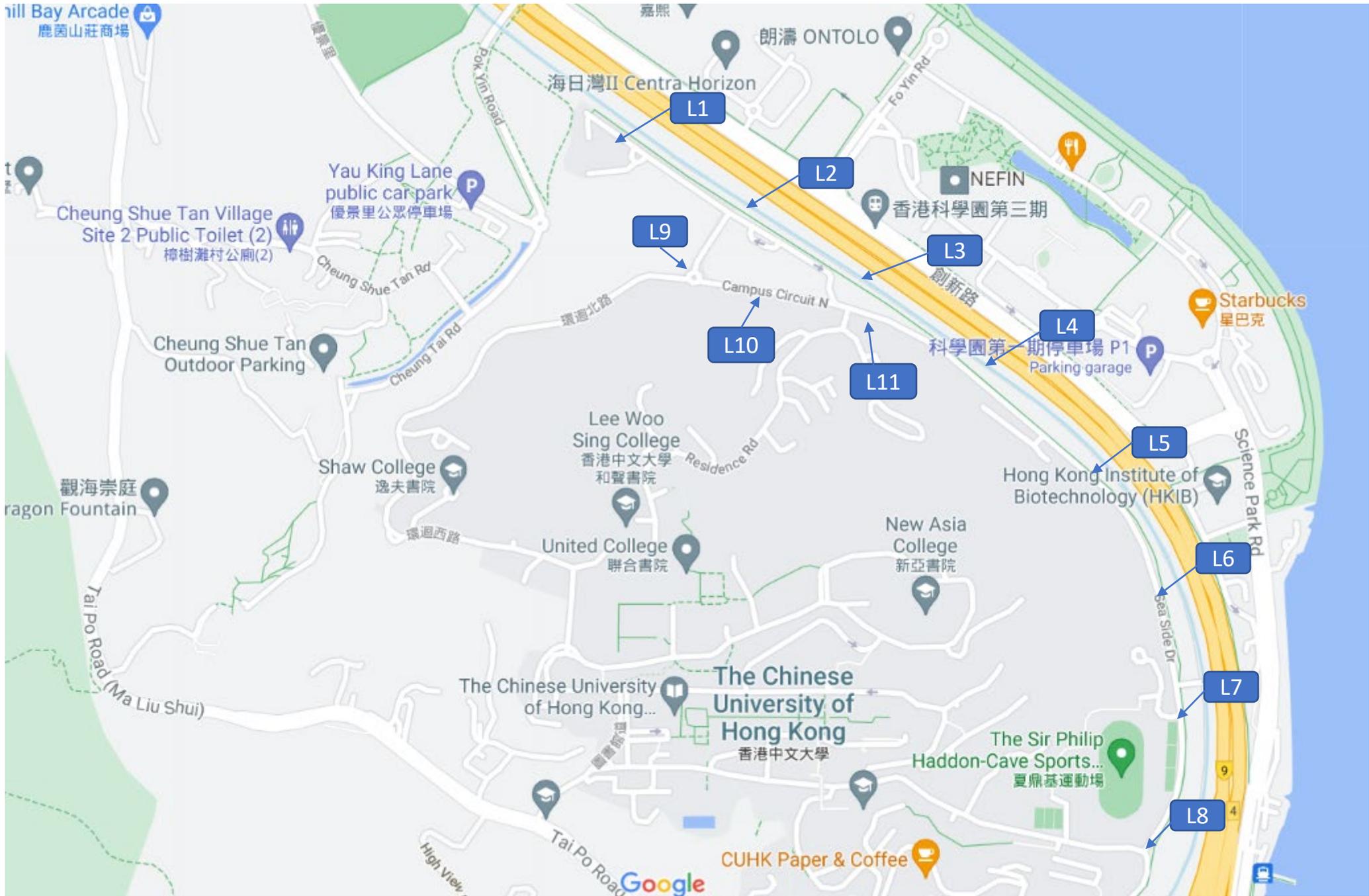


Cost effective &  
immediately  
deployable

# Pain points | CUHK Campus Monitoring

- No Fiber Coverage
- Dangerous Materials Storage
- Limited Security Guards in Area
- No existing automated and AI based solutions







Use Case 3:  
Discovery Bay  
5G Surveillance and Monitoring

# Pain points | Discovery Bay Surveillance and Monitoring

- No Fiber Coverage at Tunnels and Yacht
- Burglary, attempted burglary, loitering, illegal access to the area
- Limited Security Guards in Area
- No existing automated and AI based solutions



# Area Coverage – DB Tunnel Portal



# Area Coverage – DB Tunnel Portal



Mount on lamp post to cover Area 1.1



# Area Coverage – DB Tunnel Portal



Mount on high mast to cover Area 1.2



Mount on high mast to cover Area 1.3



# Area Coverage – DB Coastline, Hillside and Hiking Trails



To monitor the coastline as there is no existing surveillance system at the concerned area

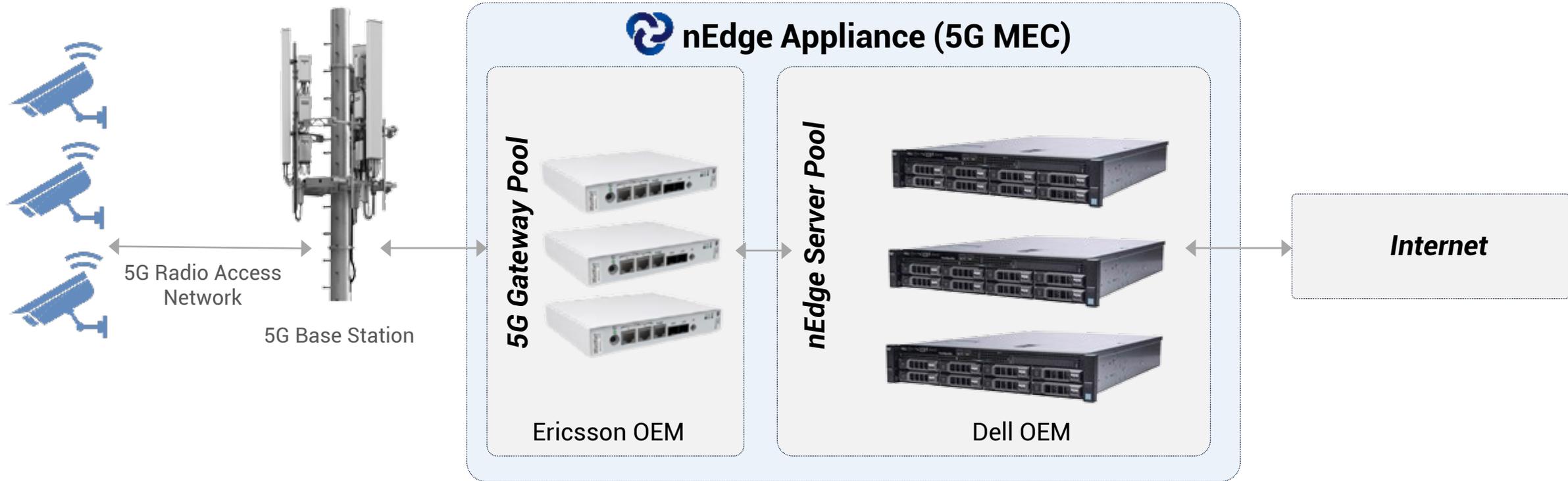


To cameras to monitor the hillside and / or hiking trails as there is no existing surveillance system at the concerned area. Only monthly inspection or ad-hoc patrol is arranged as the case may require.



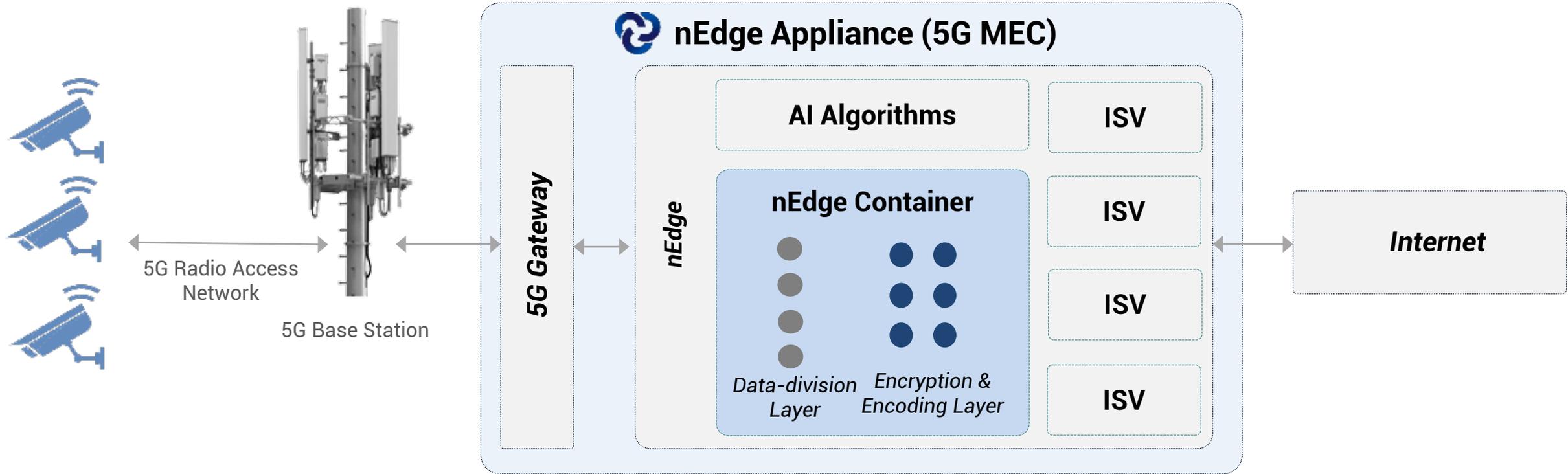
# 5G nEdge Architecture

# nEdge Architecture in 5G



One-stop hybrid edge-cloud integration platform, supporting multiple applications with open architecture, enhanced security and data reliability through network coding while providing convergence between IT and mobile technology

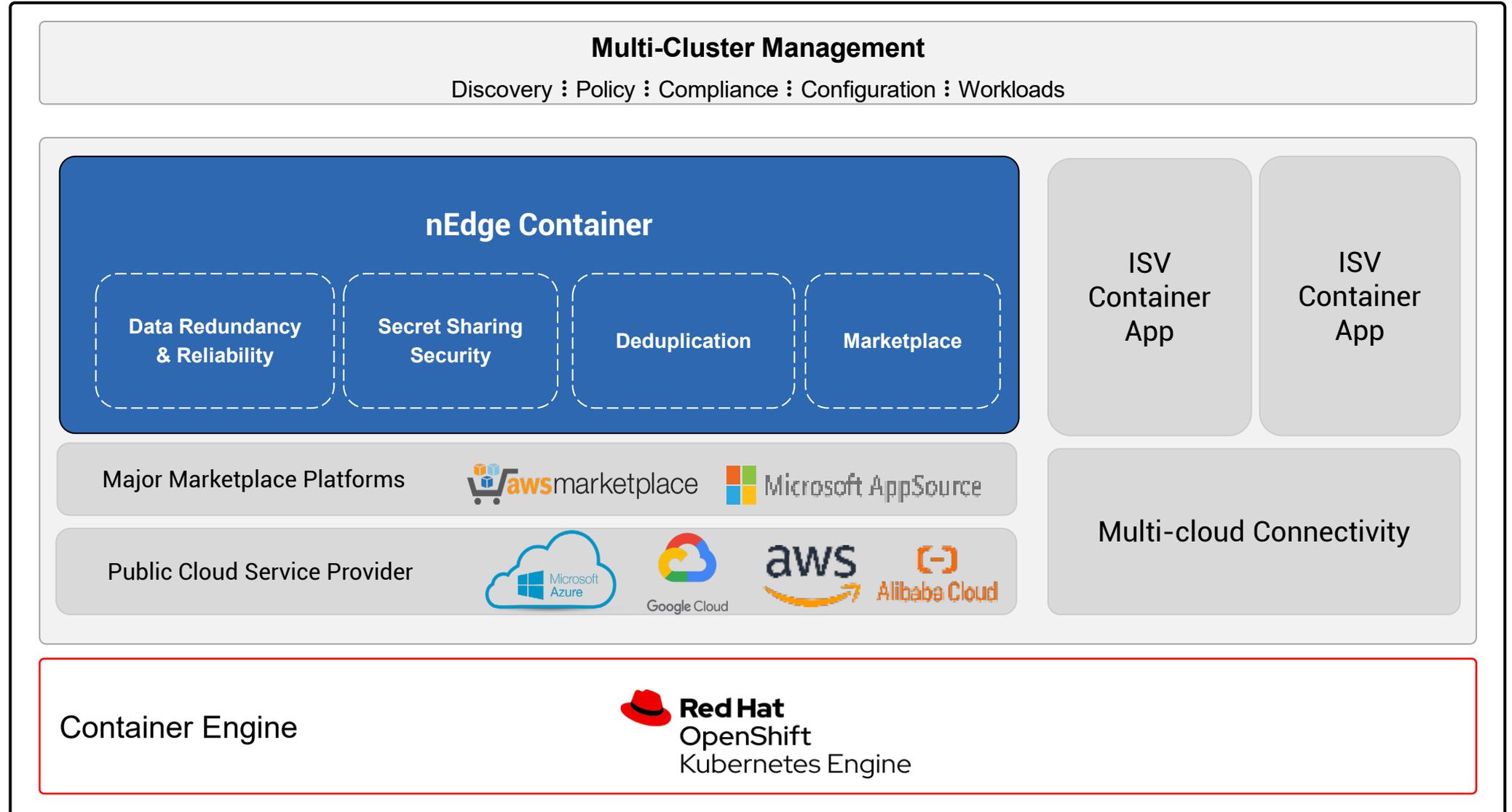
# nEdge Architecture in 5G



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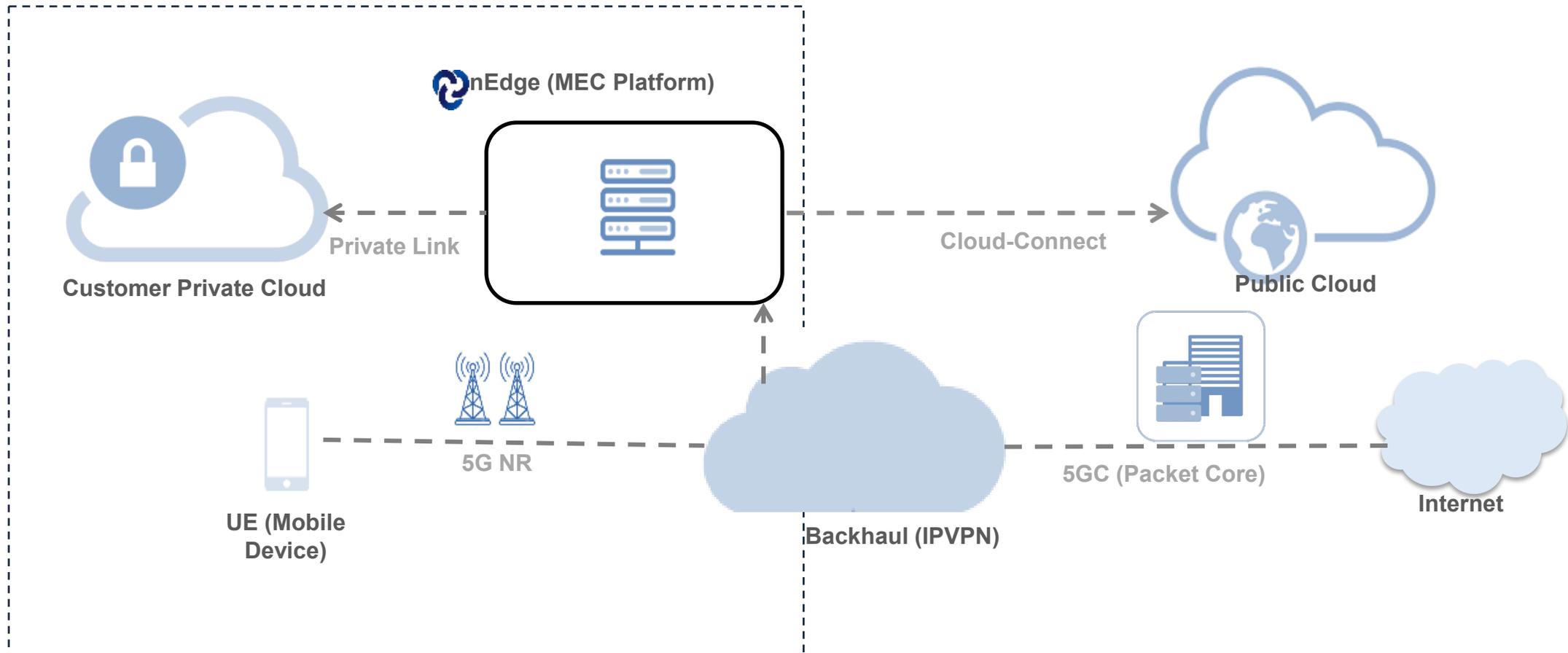
# nEdge-nCloud Integration with Red Hat Solutions

nEdge Platform



# nEdge MEC Application Flow | Benefits

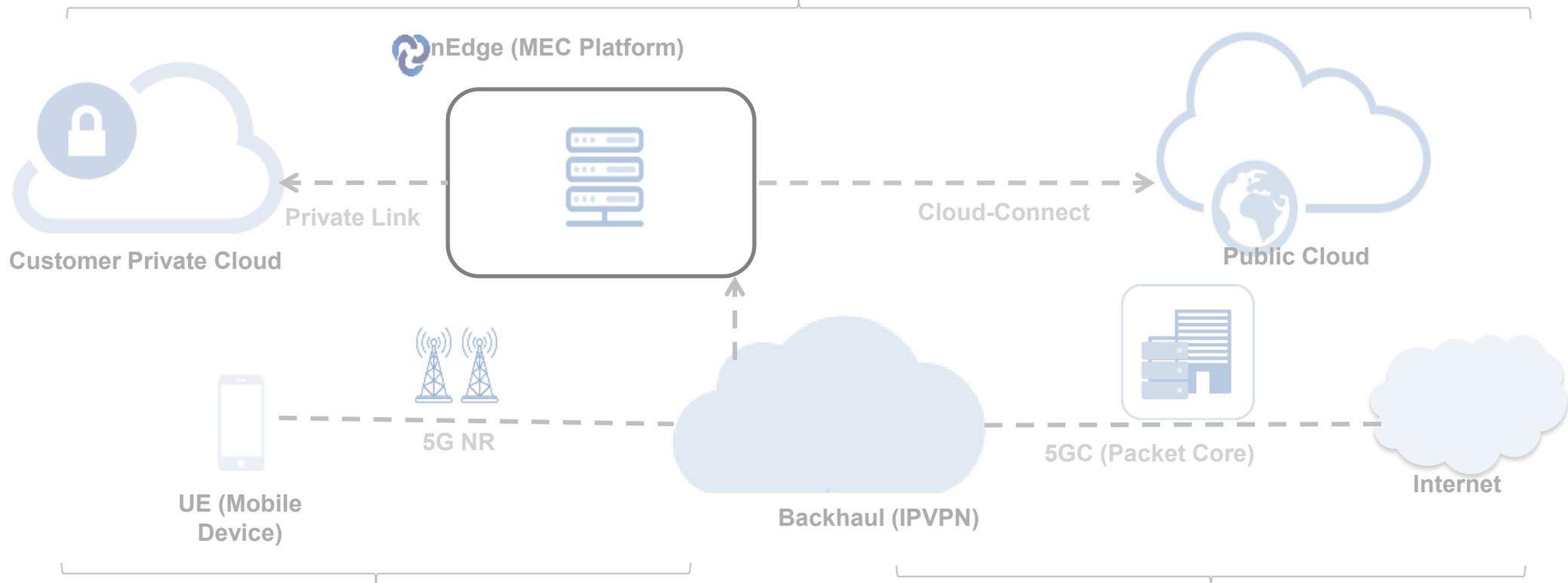
## Private 5G



# nEdge MEC Application Flow | Benefits

## *Streamlined architecture*

Virtualized edge computing design enhances network communication and IT computing capability



### *Application need*

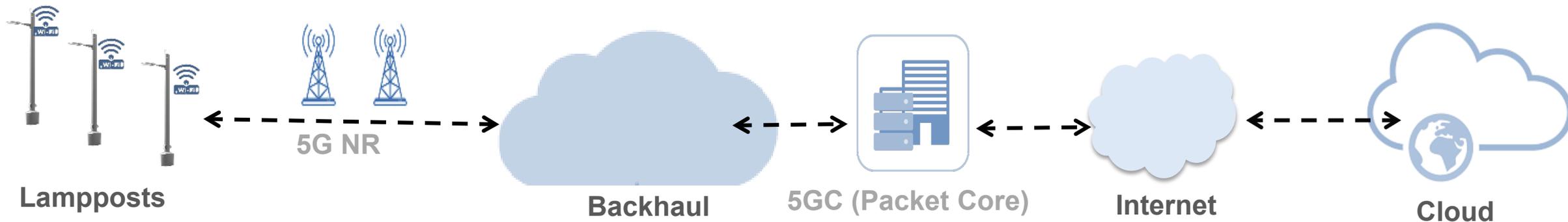
Low latency, high bandwidth, security and localized service needs

### *Lower costs*

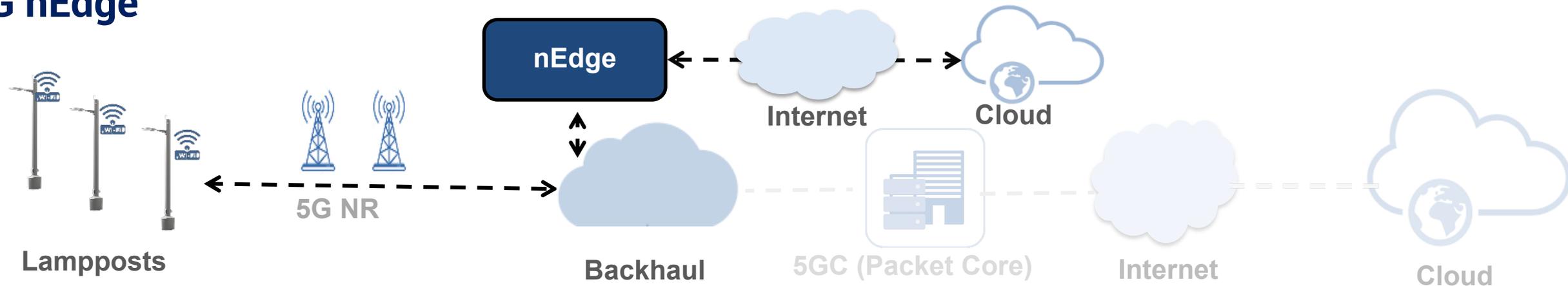
Reducing traffic flow via EPC and Internet Transit

# 5G vs 5G nEdge Application Flow

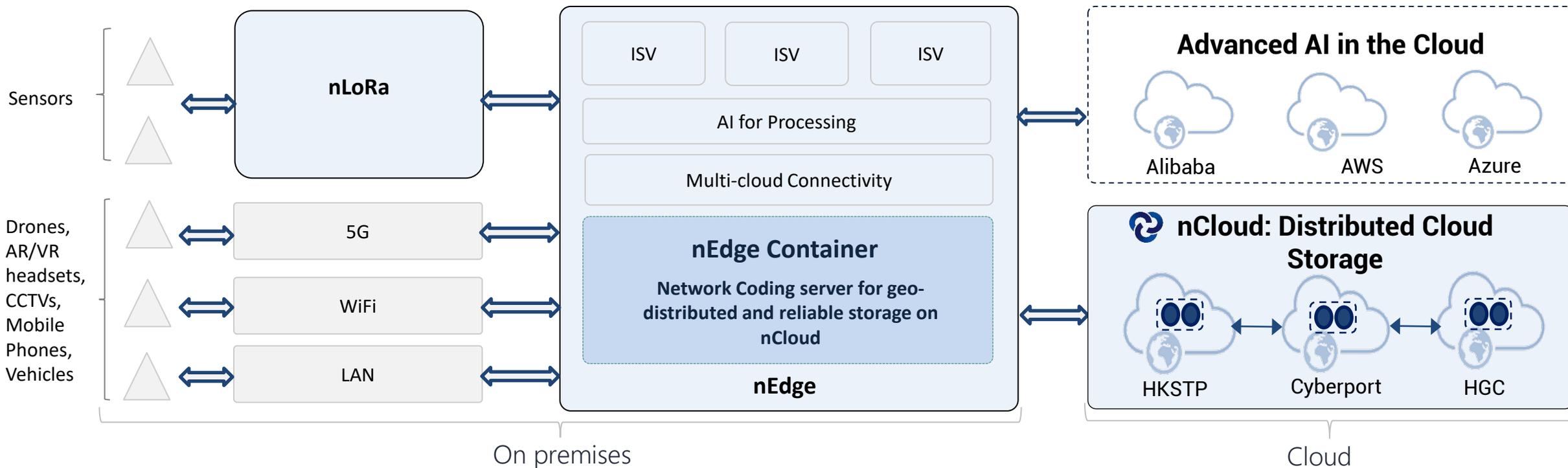
## 5G



## 5G nEdge



# nEdge-nCloud: A Futureproof Multiaccess Technology for Managing Computation, Communication and Storage



**nEdge-nCloud pair leverages multi access technologies to provide computation, communication and distributed cloud storage solution**

Computing on accumulated data (on-premises as well as in the cloud)

Storage on nCloud. Network coding is performed at nEdge and network-coded data is stored in nCloud.

Local breakout for internet-bound traffic

Confidential

# Contact Us



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