

A futuristic cityscape at night, featuring a dense cluster of skyscrapers illuminated against a dark sky. The foreground is dominated by a complex network of glowing light trails in blue and orange, suggesting data flow or network connectivity. The sky is filled with stars and a few streaks of light, creating a sense of depth and advanced technology.

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# Beyond Connectivity: The Programmable Network Revolution with APIs

How telcos are evolving from commodity pipes into open, API-driven platforms — and why it matters for every developer and enterprise.

# My Profile

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AVP- Advanced Technology and Platforms  
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BE, MBA, NUS-LDP

Telecom technologist with 22 years of experience driving innovation in software and advanced technologies, including 5G/6G, AI, and Quantum Security.



# The Old Telco: Connectivity as a Commodity

## What They Sold

Bandwidth, coverage, and SIM cards  
— competing on price per GB in a  
race to the bottom.

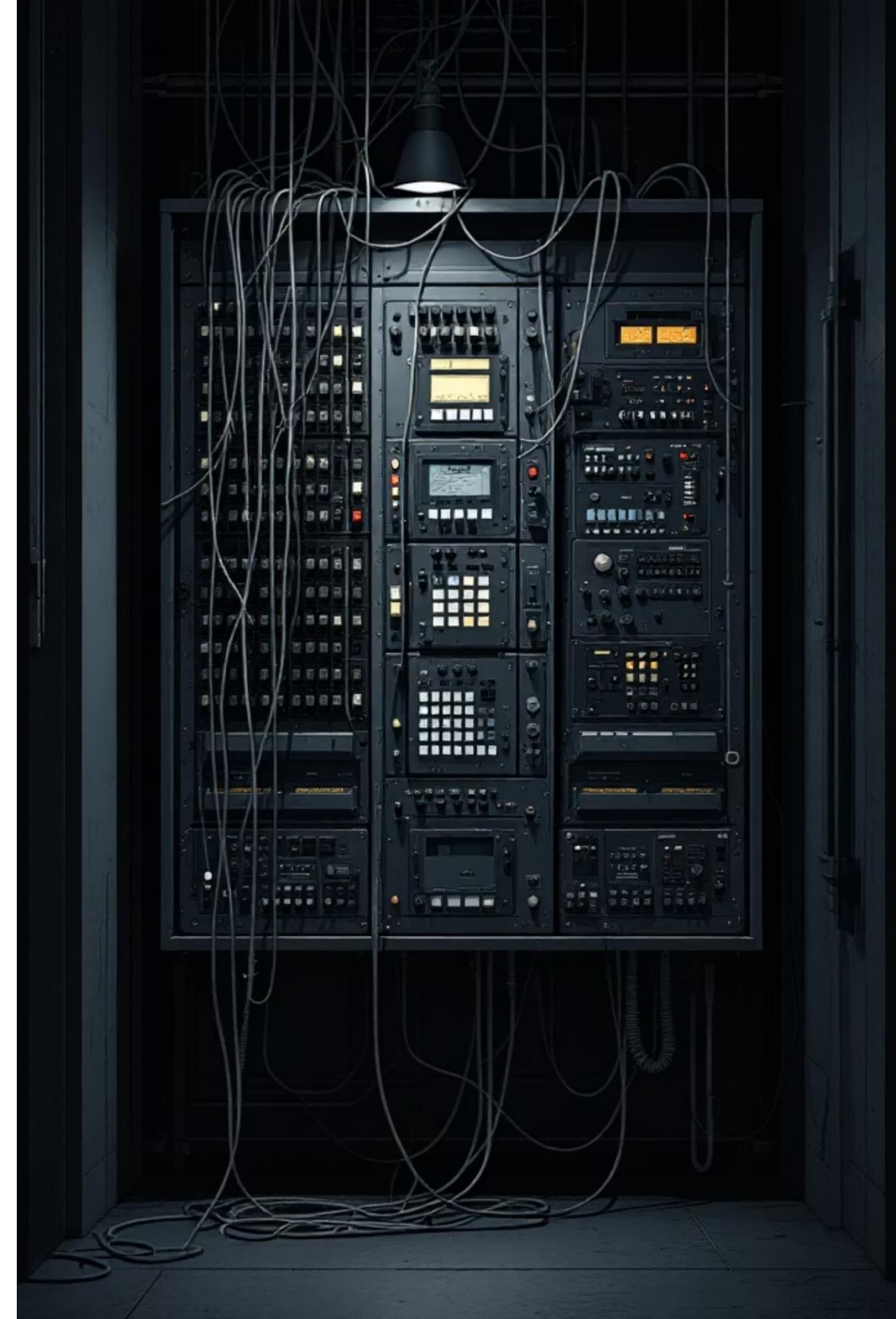
## How They Operated

Closed networks, slow innovation  
cycles, and manual configuration that  
took months to deploy.

## The Risk

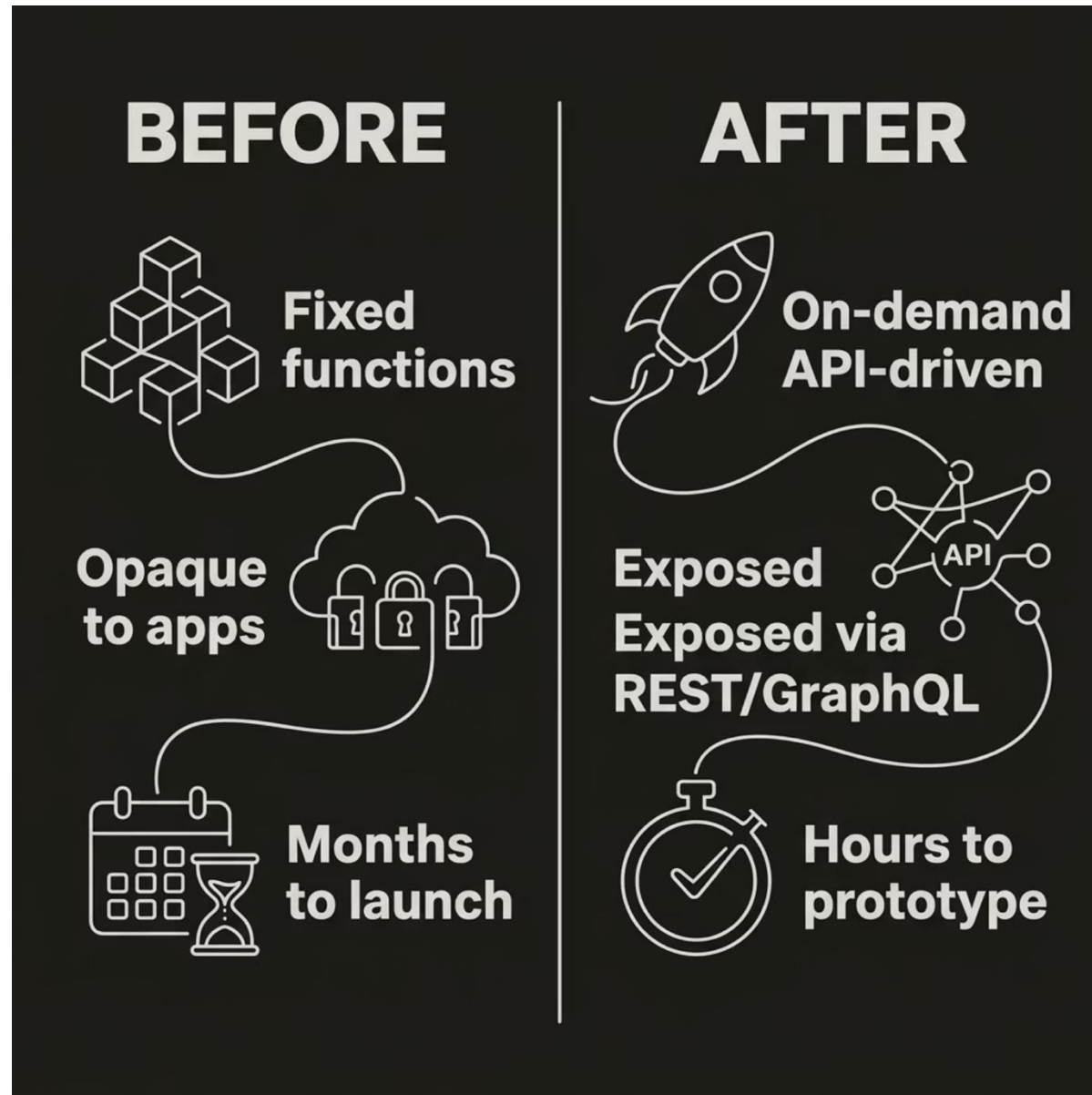
Becoming "dumb pipes" — invisible infrastructure commoditized by hyperscalers  
and OTT players.

📄 **The shift: From selling GBs to exposing network capabilities as APIs.**



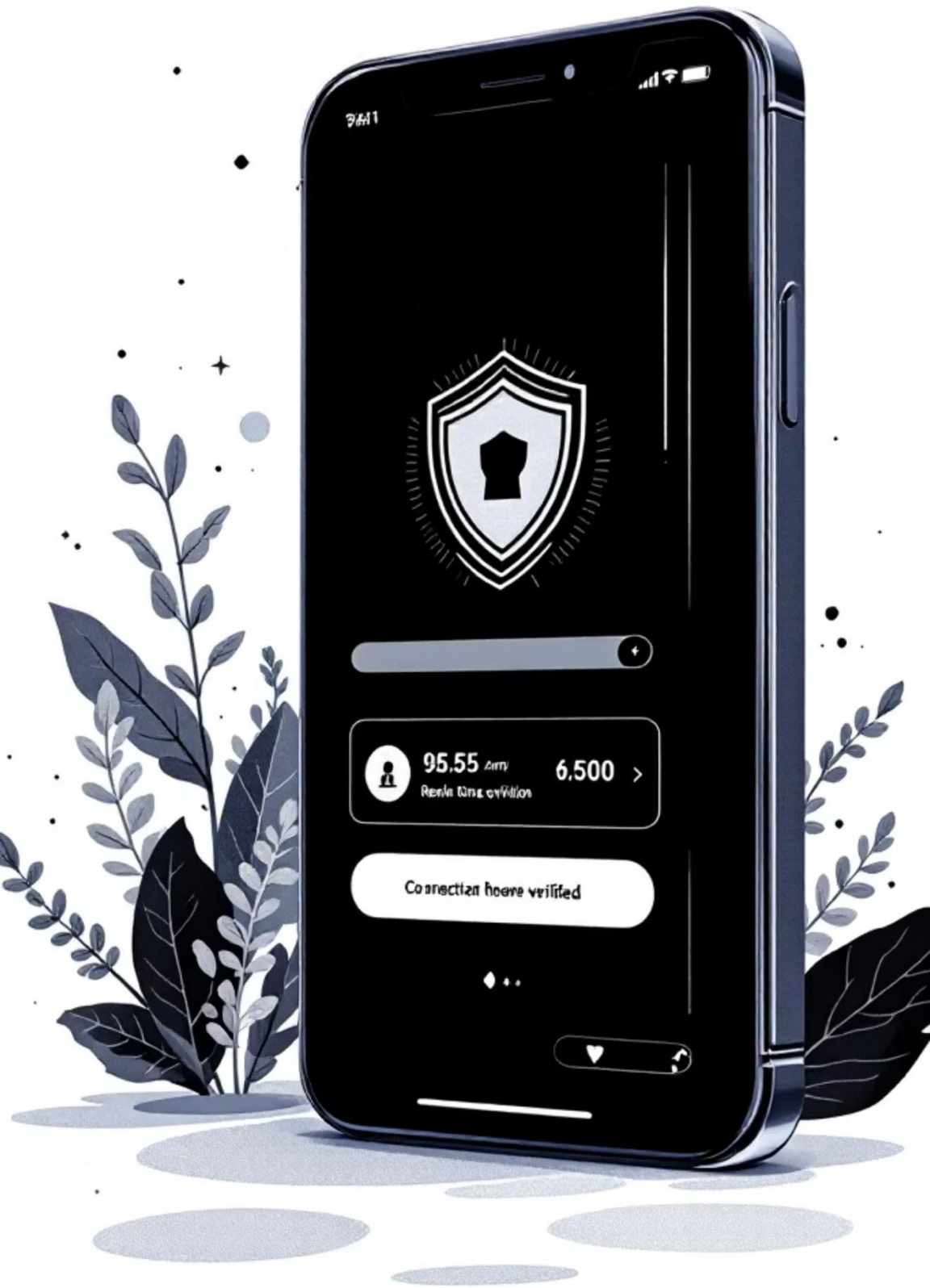
# From Telco to Techco: The Programmable Network

5G Standalone, Edge compute, and CAMARA APIs are unlocking a new operating model – **Network as a Platform (NaaP)**.



## What Changes

- **Fixed → Flexible:** Network functions become on-demand, API-driven services.
- **Opaque → Exposed:** Capabilities surfaced via REST and GraphQL for any developer.
- **Slow → Fast:** Months-long launches replaced by hours-long prototypes.



# Real-World Use Case: Fraud Prevention for Banks

- ## 1 The API Call

Banking app triggers a **SIM swap check** and **device reputation lookup (IMEI/MSISDN)** at the moment of payment initiation.
- ## 2 The Decision

If the SIM or device doesn't match the registered profile, the transaction is **blocked in real time** — stopping SMS-based fraud before it completes.
- ## 3 The Impact

**40% reduction in fraud** with real-time risk scoring, without adding friction for legitimate users.

# The Pattern Repeats Across Industries

The same API-driven model that stops fraud is unlocking value in gaming, logistics, and beyond.



## Gaming

On-demand **QoS APIs** guarantee low latency during competitive play, dynamically prioritizing traffic.



## Drones & IoT

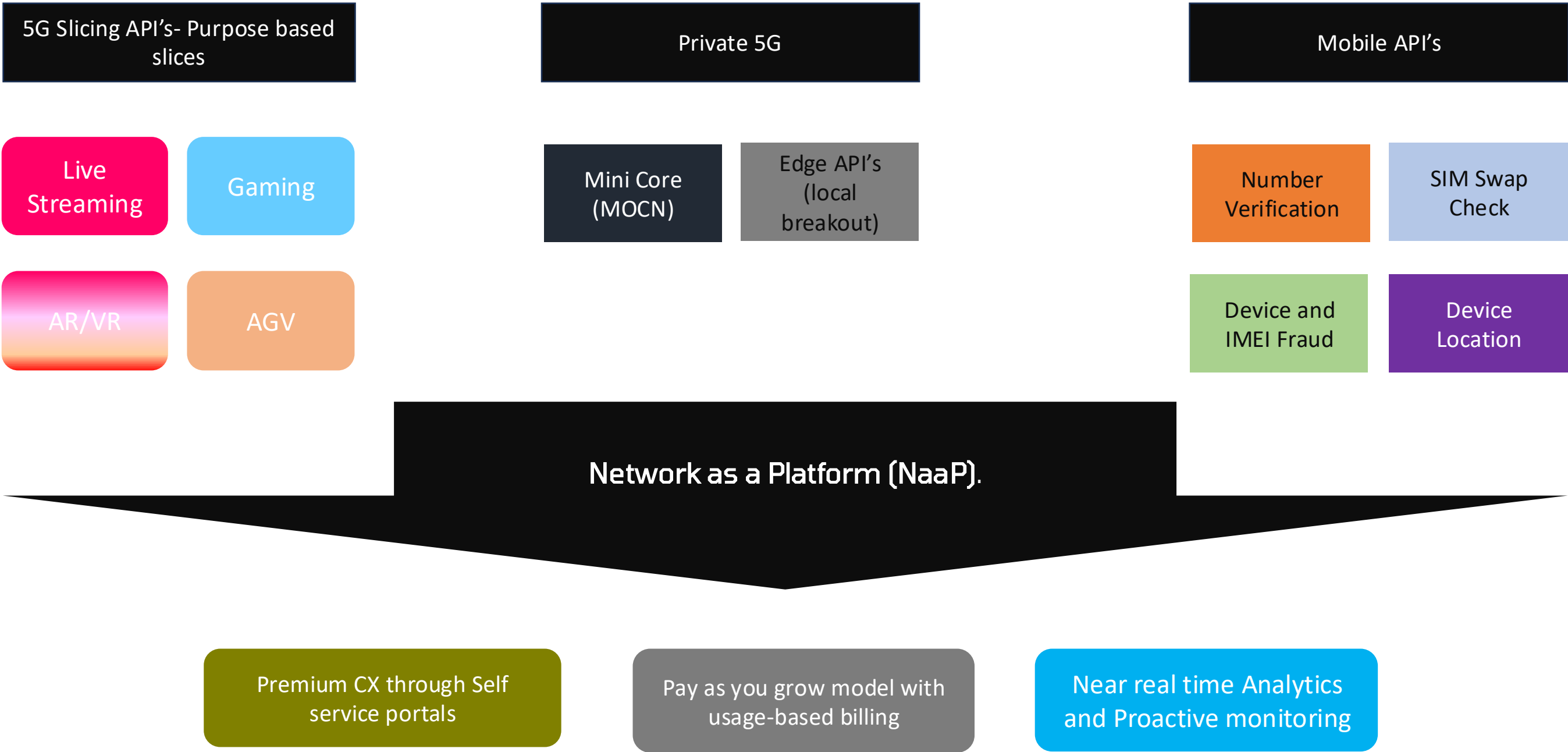
**Edge compute APIs** enable real-time processing for autonomous drones, reducing round-trip latency to the cloud.



## Healthcare

Verified identity and location APIs support **compliant patient data workflows** and remote care delivery.

# StarHub API Initiatives



# No Telco Alone: The Ecosystem Must Align

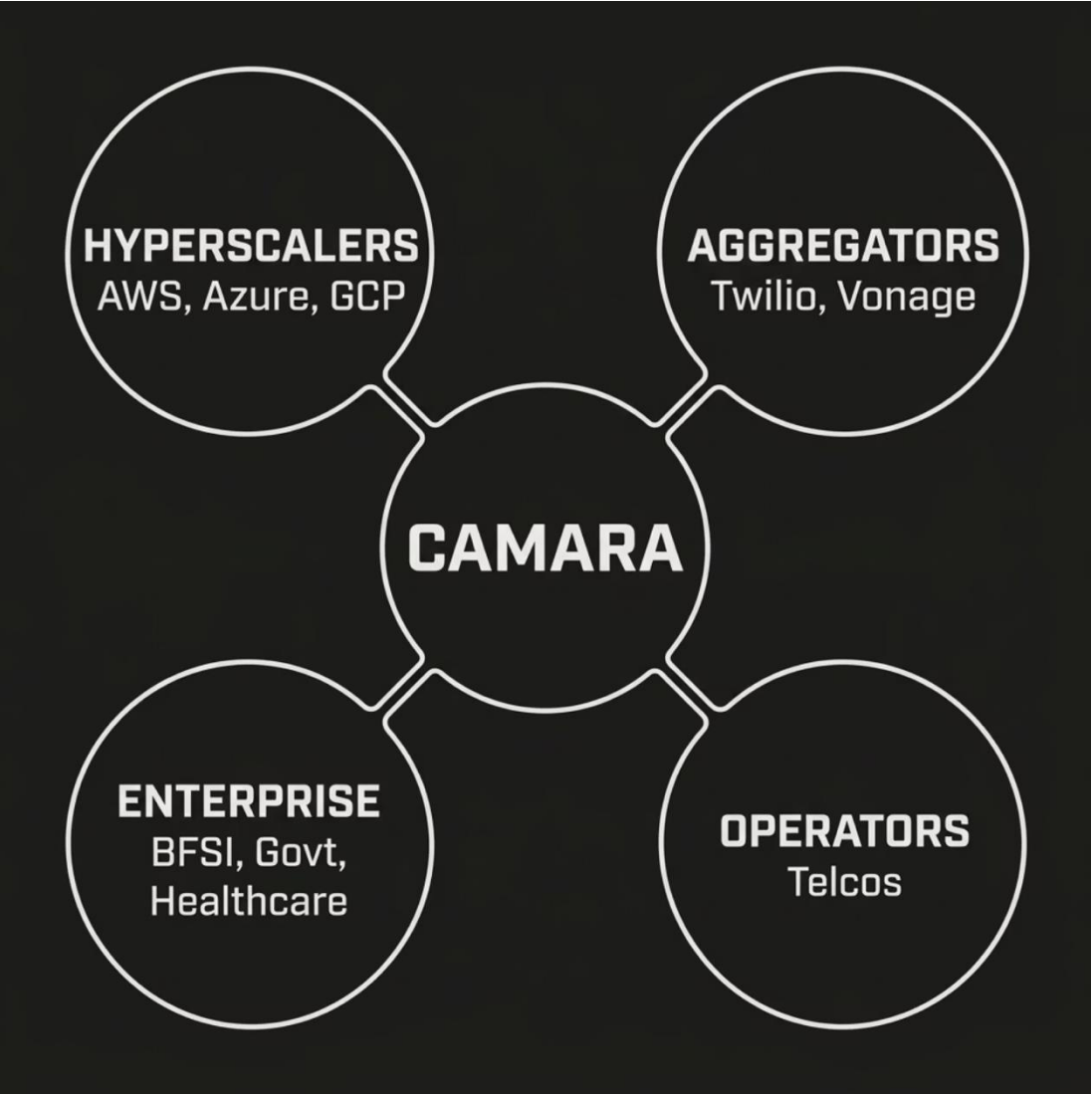
Programmable networks require a multi-stakeholder ecosystem. No single operator can deliver this alone — success depends on alignment across infrastructure, aggregation, and enterprise adoption.

## What Operators are doing for Network API's

- Implement CAMARA APIs based on the network capabilities
- Implement an exposure infrastructure, with TMForum Operate APIs
- Define commercial products
- Sell it



All Started by CAMARA – A Linux Foundation forum



**Hyperscalers**  
AWS, Azure, and GCP embed network APIs directly into cloud services.

**Aggregators**  
Twilio, Vonage provide one API surface across many operators globally.

**Enterprises**  
BFSI, government, and healthcare drive compliance-led, security-first adoption.

# Developers Started with CAMARA APIs and there are many



## CAMARA Contacts

- Individuals and organizations from application developers / API consumers (e.g. enterprises and startups), aggregators, cloud operators, telco operators, network equipment vendors, system integrators, and software vendors are welcome to join CAMARA.
- To access CAMARA technical resources like API definitions, API specifications or API code just visit the [CAMARA GitHub](#). All resources are reachable without any prerequisite. To create issues and start contributing to CAMARA you need a free GitHub account without any further prerequisite. This participation is free, without any fees or obligation to work.
- If you are interested to be included in the CAMARA communication, please subscribe to [all+subscribe@lists.camaraproject.org](mailto:all+subscribe@lists.camaraproject.org). You may unsubscribe from CAMARA and these communications at any time. Participation is free.
- If you are interested to show your logo on the CAMARA website as “Participating Organization” you can send it to [adm@lists.camaraproject.org](mailto:adm@lists.camaraproject.org). Participation is also free.
- If you would like to join as CAMARA sponsor or associating organization, please don't hesitate to use the enrollment link <https://enrollment.lfx.linuxfoundation.org/?project=camarafund>. Cost is depending on the kind of membership and the number of employees.

## Embraced by Telco's and Ecosystem Players Across the world

# Conclusion: The Revolution Is Open

## The Network Is a Platform

Not a pipe — a developer platform with exposed, composable capabilities.

## New Revenue Model

API calls generate recurring, high-margin revenue beyond data plans.

## Build Once, Run Everywhere

Adopt **CAMARA** standards to ensure interoperability across any programmable network.

Let's build together. Reach out to explore partnership, integration, or developer onboarding opportunities.

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