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Creating Developer-Ready Telco Services

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MAKING
THINGS
HAPPEN

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Industry transformation

Mark Evans

CHIEF STRATEGY & DEVELOPMENT OFFICER, TELEFÓNICA

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A new wave of digital use cases are coming

IoT & Edge Computing

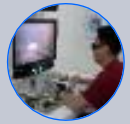
Cloud compute of PayTV algorithms

Smart factories IoT based maintenance

Edge Compute based **smart grids**

Smart cities with IoT based traffic mgmt.

Autonomous drone **last mile delivery**



Remote high precision **surgery**

Quantum compute for cyber risk modelling

Applied AI & ML

Virtual assistants for customer support

Digital twins for offshore windfarm

AI/ML design of public infrastructure

AI/ML medical **prescription**

General AI based digital lawyers

Metaverse & XR

VR based training for construction workers

Non peripheral VR visits in real estate

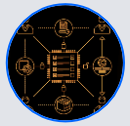
AR display for cyclists

Metaverse based online shopping

XR indistinguishable from reality in multiplayer game

Trust arch., Digital ID & Web3

NFTs tickets for an exclusive in-person event



Smart contracts for digital bank mortgages

Web 3.0. supermarket with transparency on food supply chain

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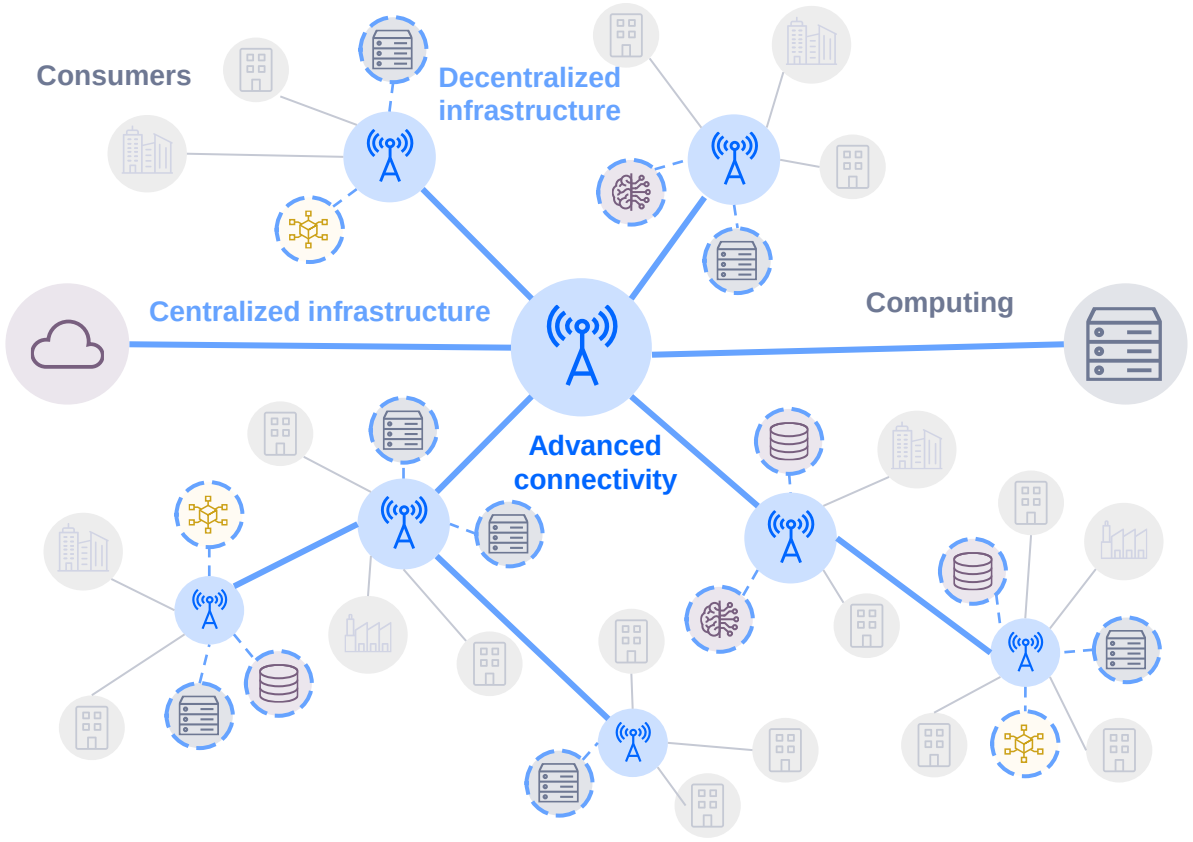
Collaboration: Cloud Computing & Communications coming together

Advanced connectivity networks

Edge compute & storage

Data assets and AI capabilities

Further decentralization



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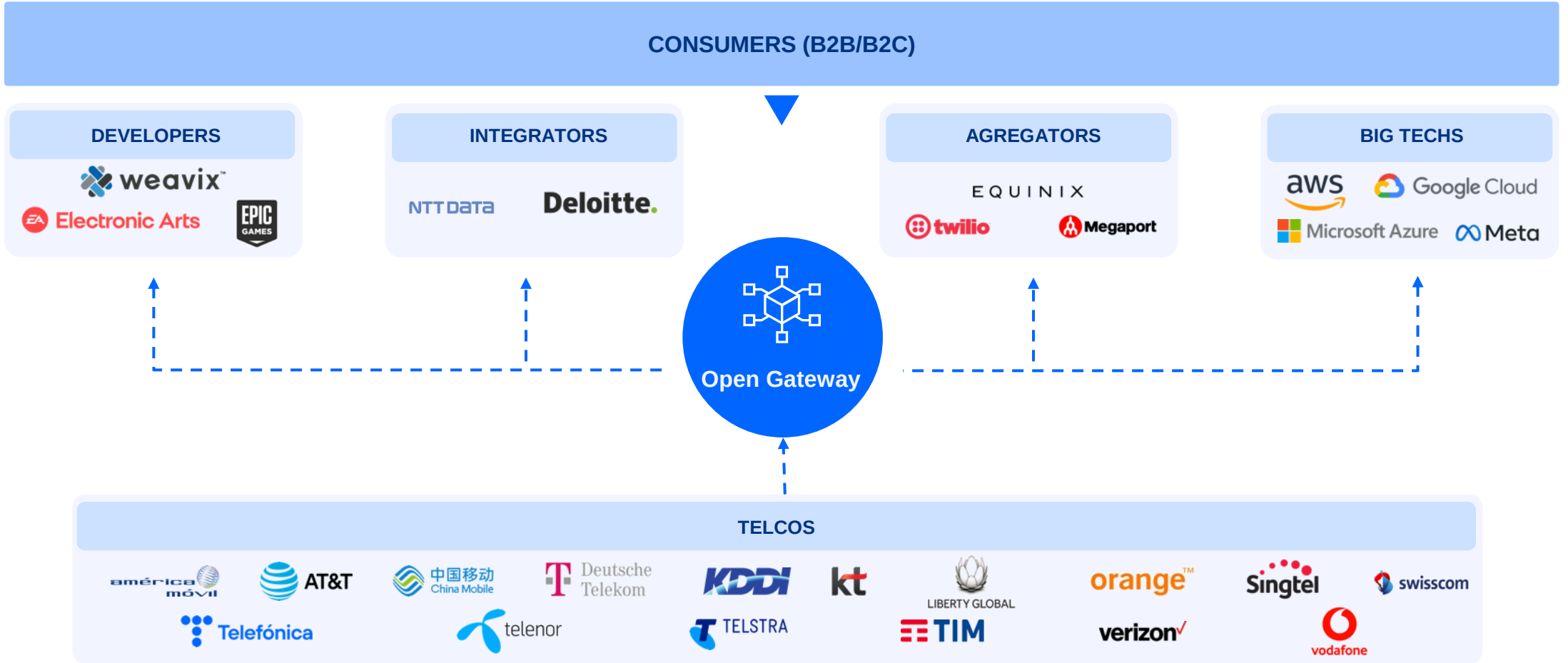
Open Gateway to transform network into a platform available to All



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MSFT our preferential partner on this journey

Jason Zander

EVP, STRATEGIC MISSIONS AND TECHNOLOGIES, MICROSOFT

Microsoft

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Building the future together

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Bringing telco capabilities to the cloud for service developers

Chema Alonso

CHIEF DIGITAL OFFICER, TELEFÓNICA

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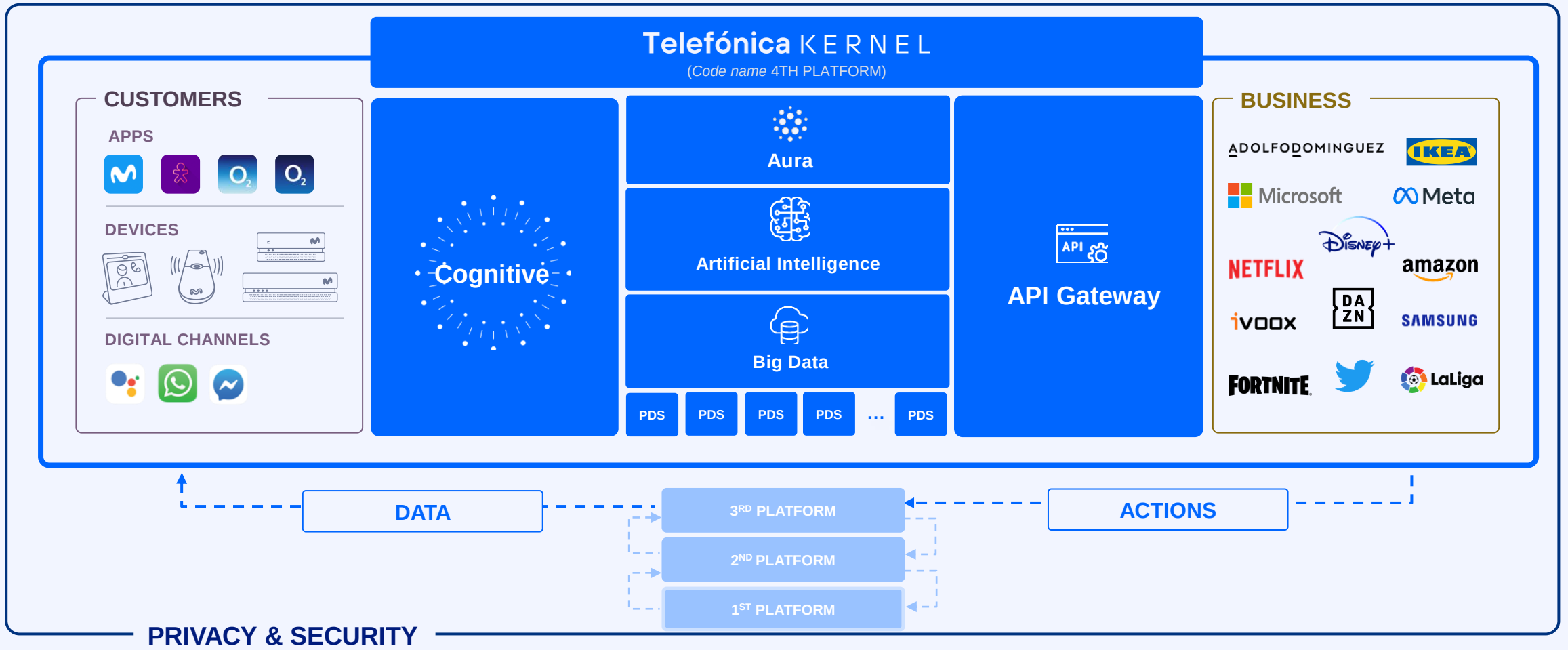
Telefónica's technological ecosystem

NORMALISED RECORDS	MONTHLY AURA USERS	MONTHLY API REQUESTS	NOVUM	TV USERS
~ 644B	~ 6M	~ 2B	33M ACTIVE USERS	~ 11M



Open Gateway

Transforming networks
into future-ready platforms to
open telco capabilities in an:

- Intuitive
- Interoperable
- Programmable way

Through global and standardised APIs

A GSMA global industry initiative

GSMA THE LINUX FOUNDATION CAMARA
The Telco Global API Alliance

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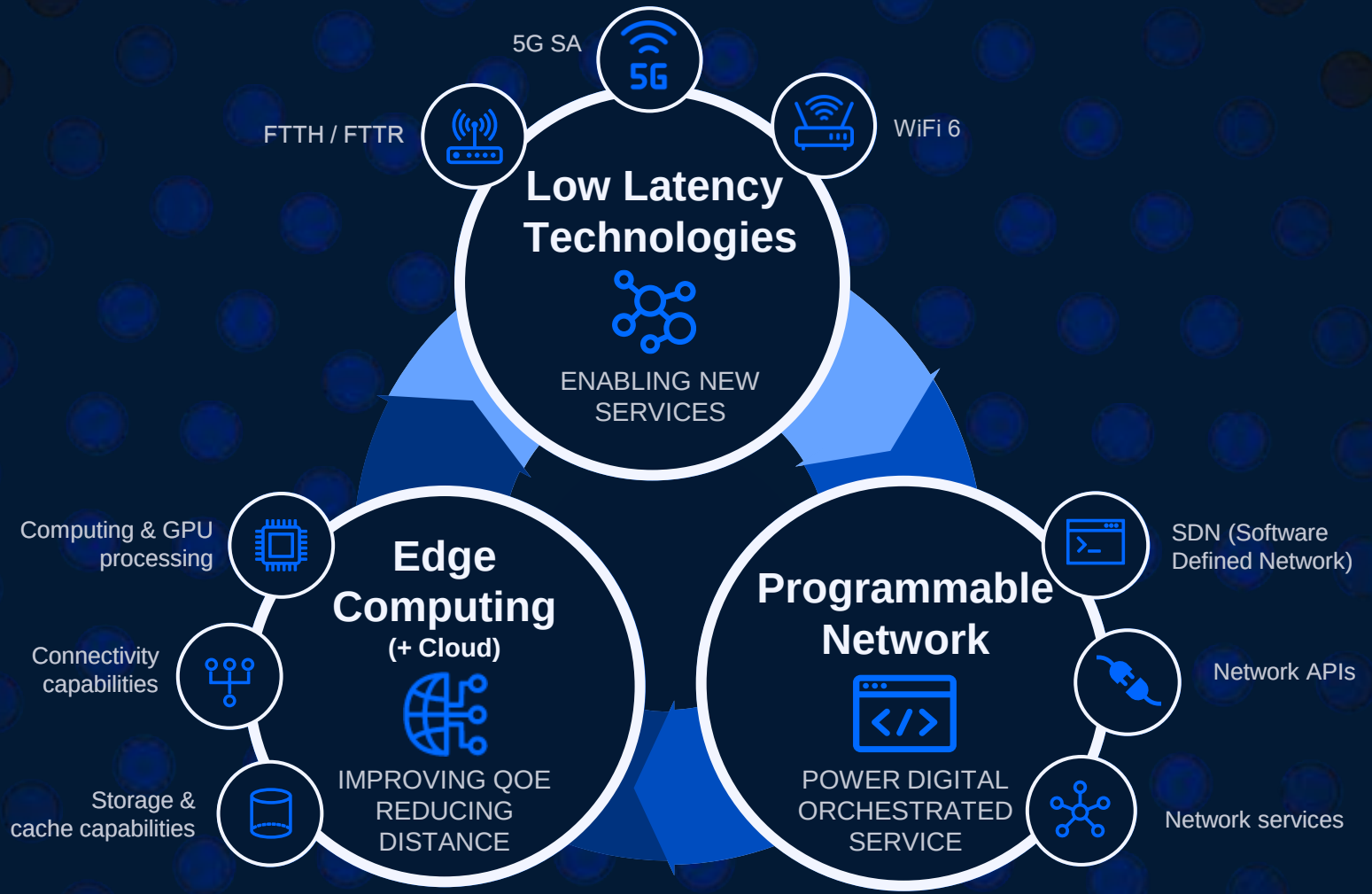
Future-ready networks



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Telefónica Open Gateway

CONSUMERS

Solutions

Microsoft Azure · Blacknut · cinfo · Banco Daycoval · ERICSSON · GAME PASS · SMARTWIFI · VONAGE · zoom

DEVELOPERS

Cloud Computing & Aggregator platforms

aws · Google Cloud · Microsoft Azure · VONAGE

DATA STORAGE · MEMORY · SERVICES

CAMARA
The Telco Global API Alliance

APIs

Open Gateway Platform

NETWORK

NETWORK AS A KEY PLATFORM TO DIGITAL ECOSYSTEM

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Telefónica Open Gateway

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CAMARA
The Telco Global API Alliance

APIs

Open Gateway Platform

NETWORK

NETWORK AS A KEY PLATFORM TO DIGITAL ECOSYSTEM

CONSUMERS

Our APIs are developer-ready

STANDARDISED

AUTOMATED

REAL TIME

ON DEMAND

ONE SINGLE LINE OF CODE

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Boosting future experiences

Accelerate the development of digital services

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Raising the level of communications

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Gaming ON

The best connectivity for cloud gaming

SMART WIFI

Under CAMARA project

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Mobile Boosting

Enhanced quality connectivity using tokens

Under CAMARA project

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Streaming services

New ways of live production

aws

cinfo

FEDERACIÓN DE MADRID DE VOLEIBOL

Under CAMARA project

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E-health

Opening up new opportunities for medical practitioners with XR

Microsoft Azure apoQlar

Under CAMARA project

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Fintech

Safer and more agile operations

Under CAMARA project

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Payments

Democratisation access to monetisation through carrier billing

Under-review CAMARA project

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Early Adopter Program Telefónica Open Gateway

Defining, creating and developing new use cases

aws Google Cloud Microsoft Azure VONAGE

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Azure Programmable Connectivity

David Carmona

GENERAL MANAGER STRATEGIC MISSIONS
& TECHNOLOGIES MICROSOFT

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Azure Programmable Connectivity

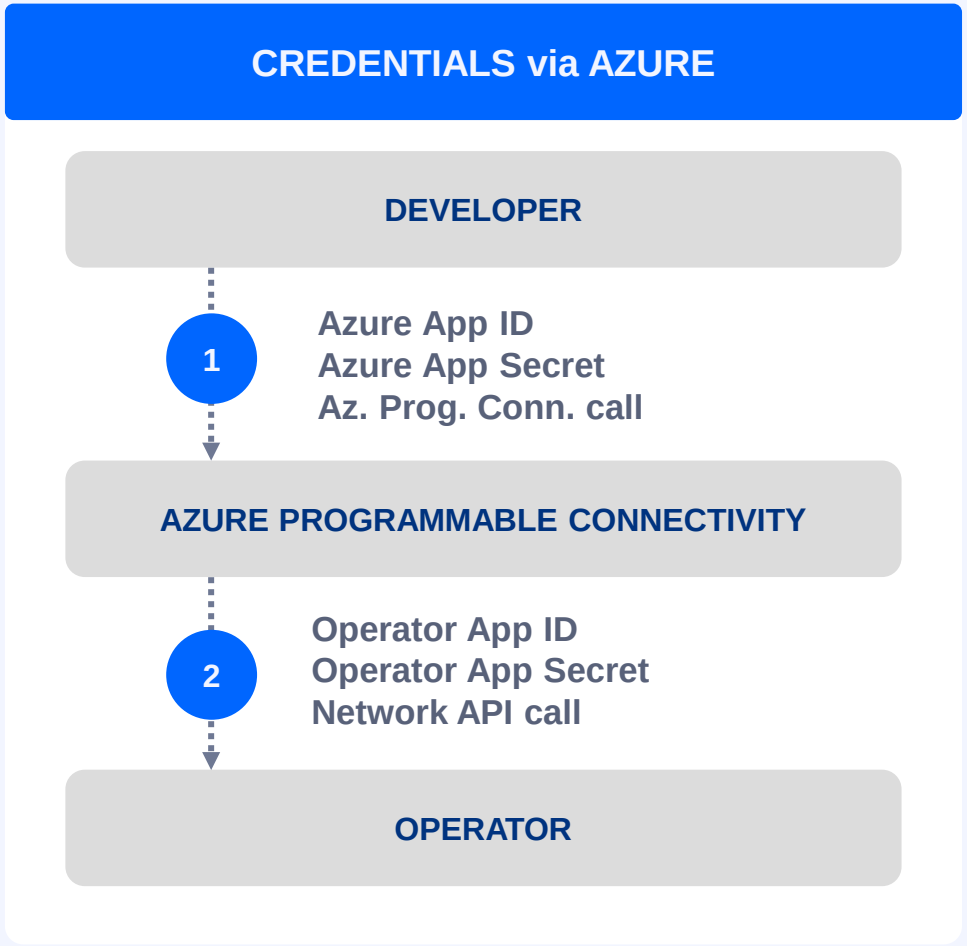
Use low latency

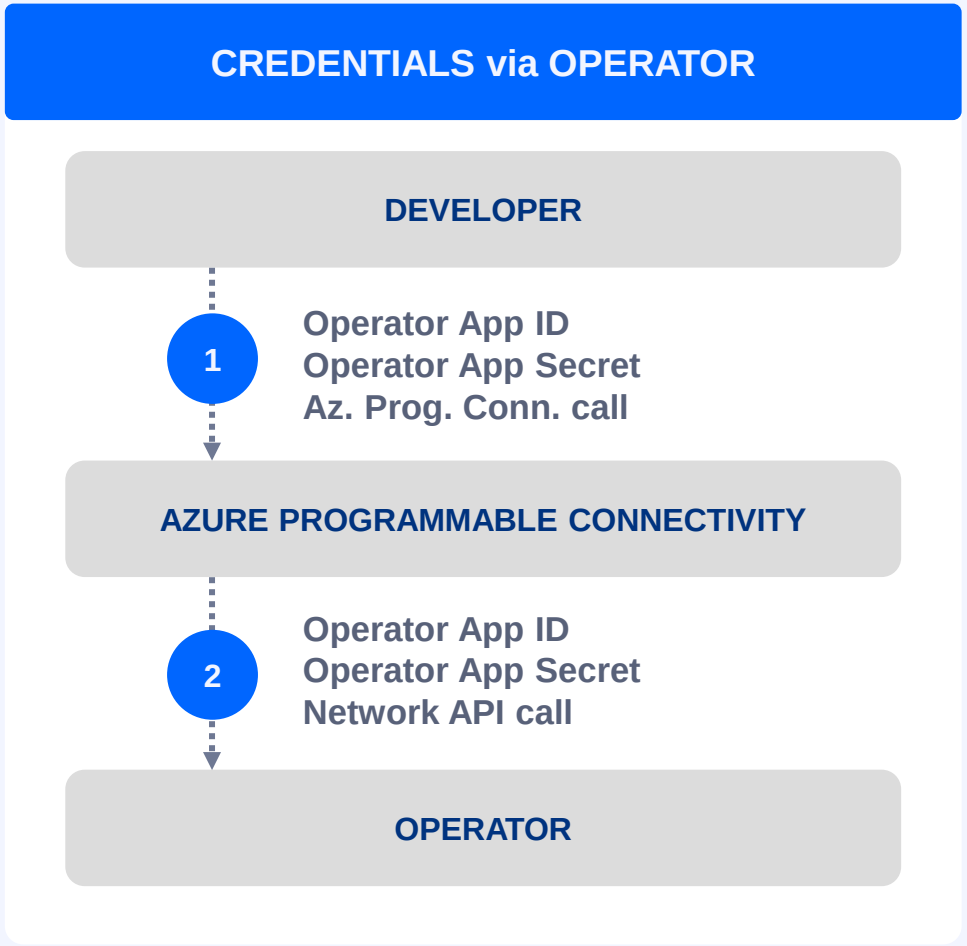
Set Network Properties

Show consent if needed

```
// create properties to set
Properties properties = new Properties {
    networkProperties = new NetworkProperties {
        avgLatencyMs = 10
    }
};
// try to set properties
try {
    var model = new { Operator = network, ConsentUrl = "", ImagePath = "images/azure.png" };
    PubSubChannel? channel = gateway.SetProperties(uePath, asPath, properties, 100);
    if (channel != null) {
        Console.WriteLine(channel.channel);
        return View("Success", model);
    } else {
        Console.WriteLine("Received null channel from SetProperties.");
    }
} catch (ConsentException e) {
    if (e.consentUrl != "") {
        var model = new { Operator = network, ConsentUrl = e.consentUrl, ImagePath = "images/azure.
        png" };
        return View("~/Home/Views/Terms.cshtml", model);
    } else {
        return Content(e.errorMessage);
    }
}
```

Azure Programmable Connectivity





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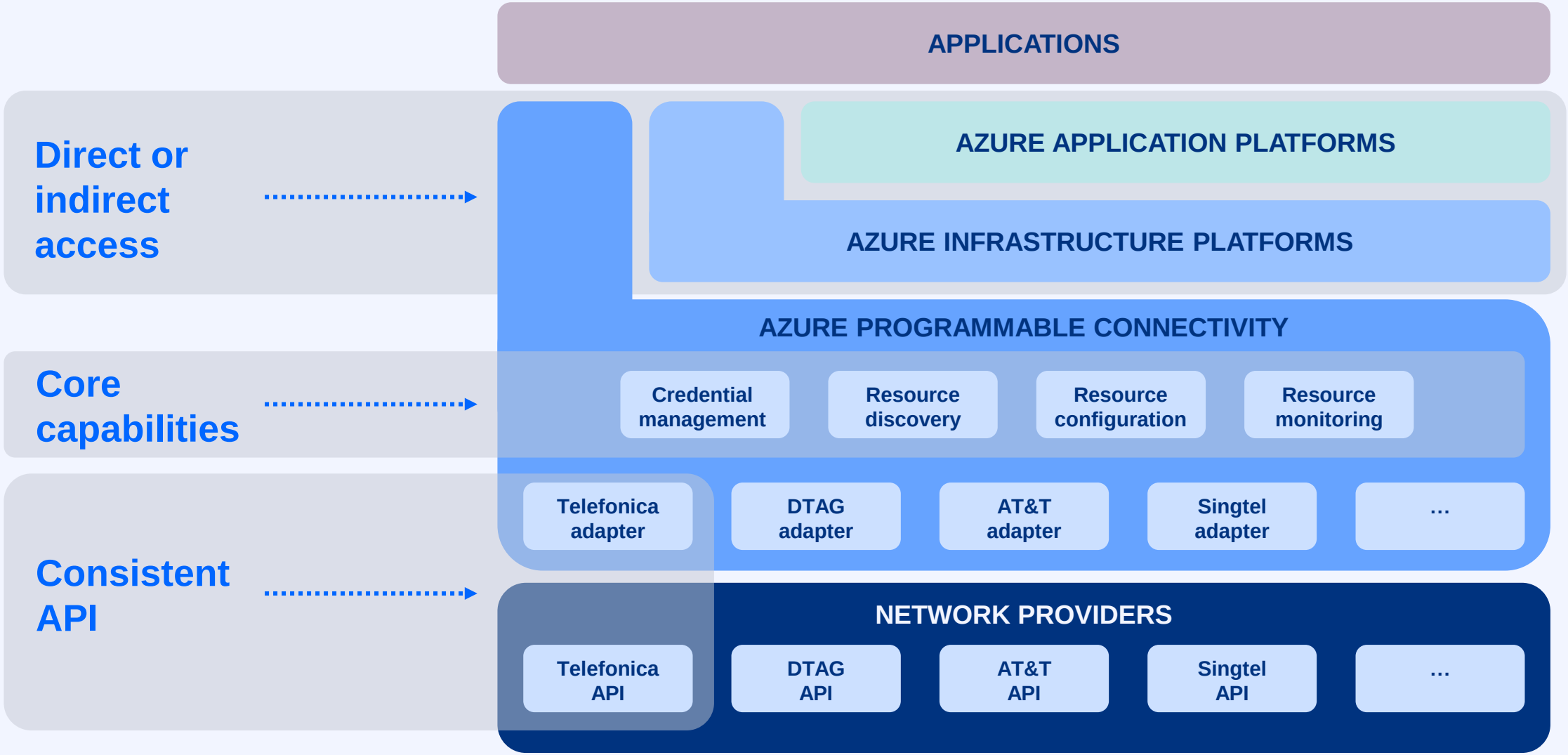
Azure Programmable Connectivity



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Azure Programmable Connectivity

Early Adoption Program

https://aka.ms/apcpreview

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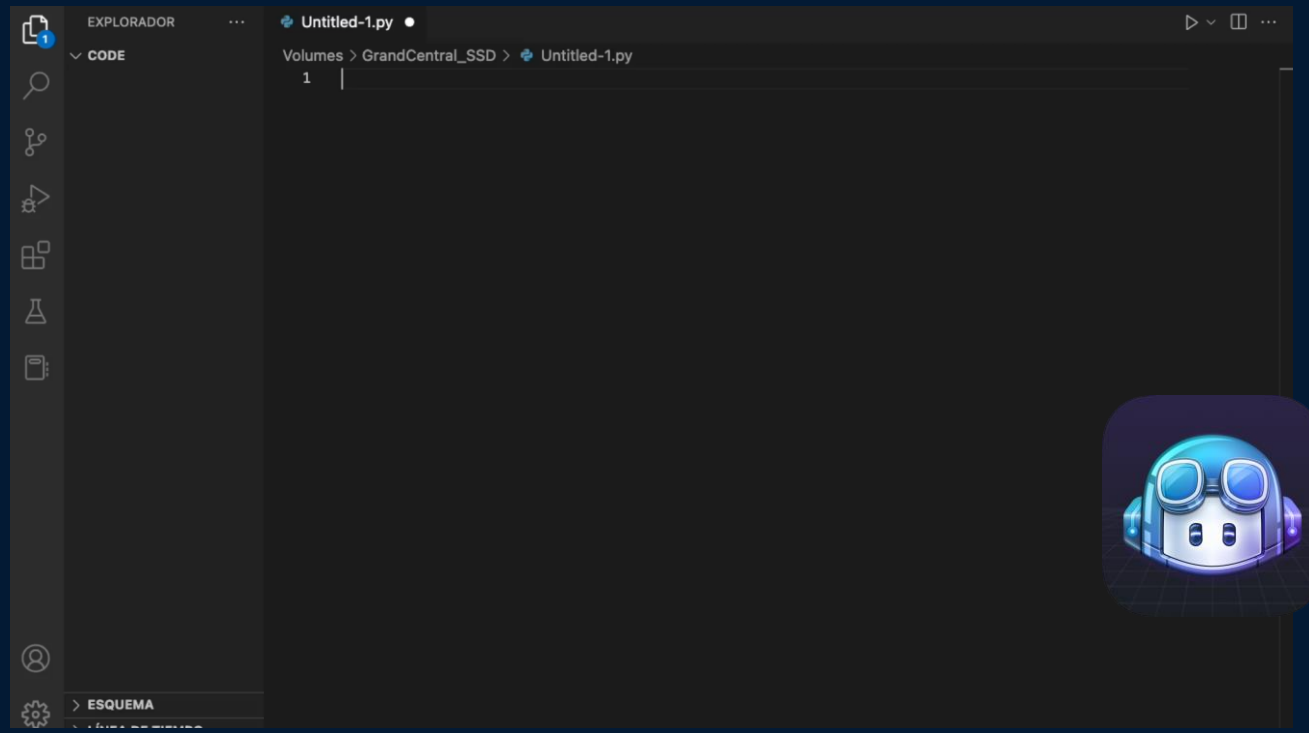
Strategic Collaboration with Github Copilot

This partnership will involve using various technologies such as cloud services, artificial intelligence, and software engineering methodologies, including the **Azure Cloud platform, Azure Security Center, Azure OpenAI (Codex),** and **the GitHub Enterprise platform, including GitHub Copilot.**

Microsoft | GitHub



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Boosting digital transformation

Pablo Benito

CLOUD TRANSFORMATION PARTNER DELOITTE

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Open Gateway Collaboration

A partnership to deliver innovative technology solutions to clients globally

Deloitte. | Telefónica

Discover more
in our demo zone

“ Being capable of serving **the creators of the future** is the natural path for our sector ”

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