



WGC EMEA

OCT 07 – OCT 10

Wi-Fi Innovation: Connecting Our Digital World

Paris Expo Porte De Versailles. Paris, France

#WGCEMEA | #wifirevolution | #lovewifi





Tiago Rodrigues

President & CEO, Wireless Broadband Alliance

Welcome address

HEALTH & SAFETY



THE FIRE ALARM SOUND IN THIS BUILDING IS A SIREN



IF YOU DISCOVER A FIRE, RAISE THE ALARM BY BREAKING THE GLASS



DO NOT STOP TO COLLECT YOUR BELONGINGS OR USE THE LIFTS



DO NOT OBSTRUCT ANY EXITS OR GANGWAYS



THERE IS A NO SMOKING POLICY AT THIS EVENT. SMOKING WILL ONLY BE ALLOWED OUTSIDE OF THE VENUE IN DESIGNATED AREAS



PLEASE MAKE YOURSELF AWARE OF THE EMERGENCY EXITS IN YOUR IMMEDIATE AREA



THERE IS NO ASSEMBLY POINT FOR THIS VENUE, PLEASE EXIT THE VENUE & DISPERSE



SHOULD YOU REQUIRE SPECIAL ASSISTANCE PLEASE CONTACT A MEMBER OF THE EVENT STAFF

WI-FI Access

NETWORK NAME: NetworkX2024

PASSWORD: networkx





EVENT PARTNER



Disruptive Analysis

Don't Assume

EVENT PARTNER



EVENT PARTNER



EVENT PARTNER















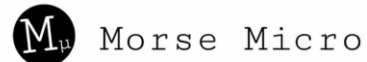
















 **WAA** 世界无线局域网应用发展联盟
WLAN Application Alliance



Matt MacPherson
Cisco



Maria Cuevas
BT



Mittal Parekh
RUCKUS Networks



Steve Namaseevayum
Wireless Broadband Alliance



Marc Merlini
JC Decaux



Ivan Muccini
Cloud4Wi

Time	Presentation
9:30 AM (CET)	President & CEO Opening Remarks Tiago Rodrigues, President & CEO, Wireless Broadband Alliance.
9:35 AM (CET)	OpenRoaming Delivering Wi-Fi Excellence in the Enterprise Matt MacPherson, Wireless CTO, Cisco.
9:55 AM (CET)	Delivering Converged Solutions to Meet the Needs of Enterprise Organisations Maria Cuevas, Networks Research Director & BT Fellow.
10:15 AM (CET)	Panel Session - Enterprise Connectivity Forum Mittal Parekh, Senior Director, Product Marketing & Technical Marketing, RUCKUS Networks; Steve Namaseevayum, VP Industry Engagement, Wireless Broadband Alliance; Marc Merlini, Business Development Director, JC Decaux, Ivan Muccini, VP Product, Cloud4WI
10:55 AM (CET)	COFFEE & NETWORKING



Matt MacPherson

Wireless CTO, Cisco.

OpenRoaming: Delivering Wi-Fi Excellence in the Enterprise



OpenRoaming

Solution and Strategy

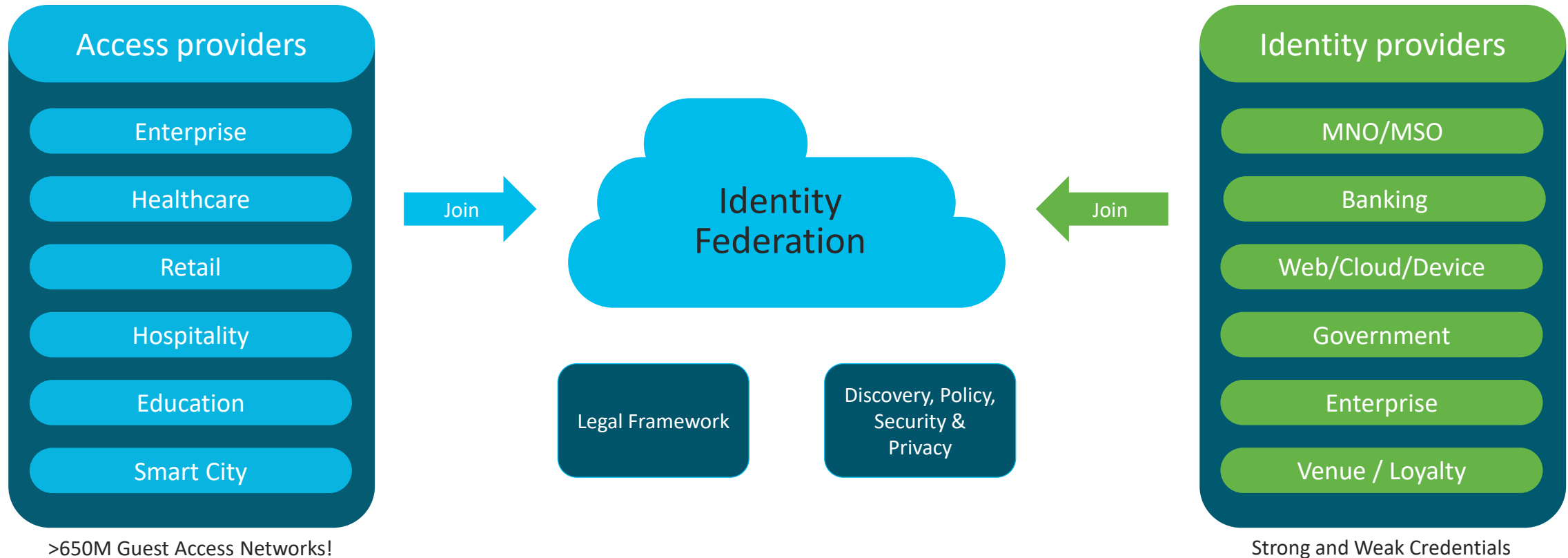
Matt MacPherson
Wireless CTO, Cisco

October 2024



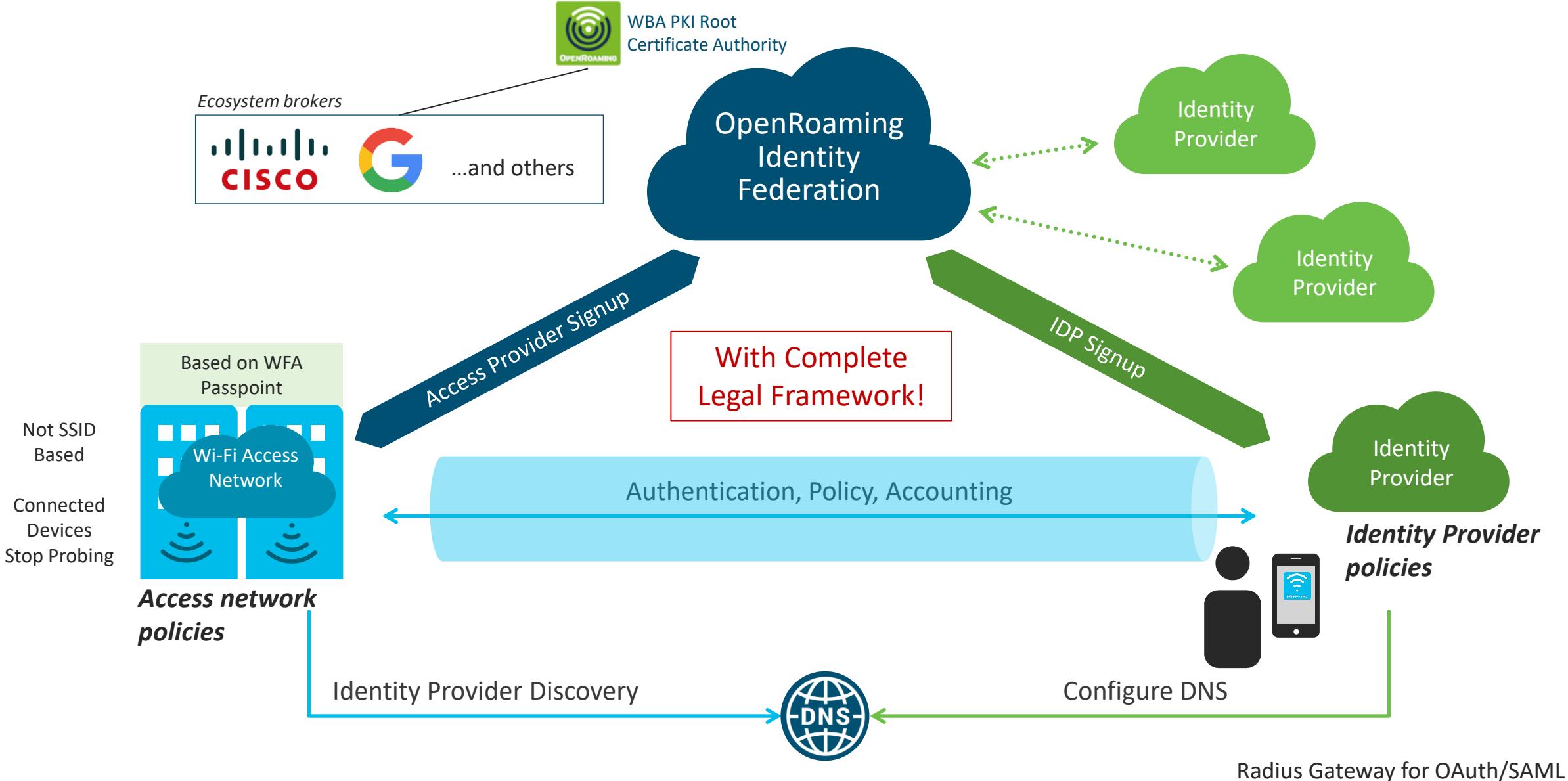
OpenRoaming – Roaming for Everyone!

Opening the Wi-Fi Ecosystem to new experiences & business models



OpenRoaming is a federation of identity & access providers to enable seamless roaming & onboarding

OpenRoaming double-click: How it works

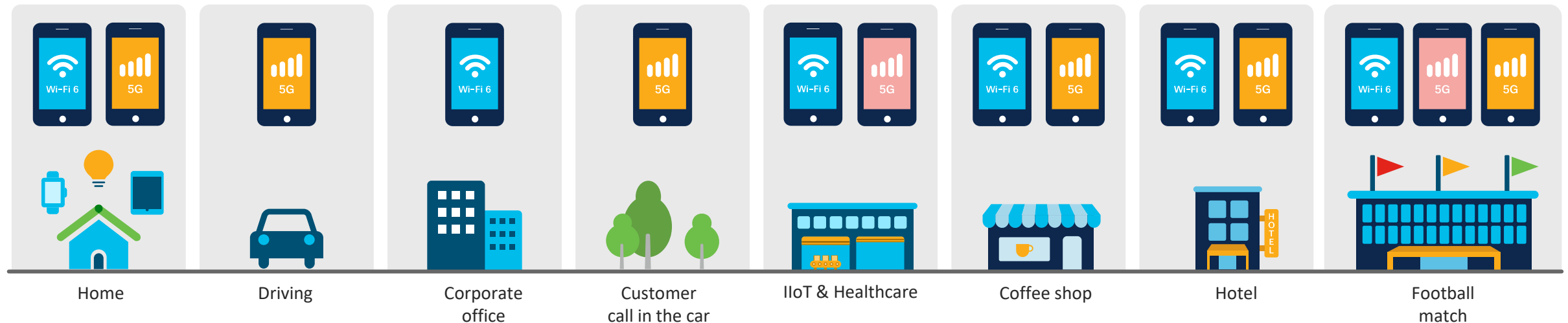
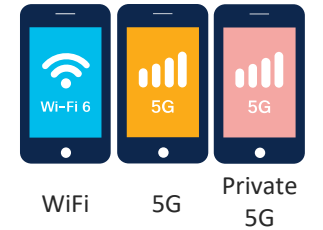


Multi-Access Wireless

We all experience this every day!



Converged Access for People and Things



To use all stacks better, we need...

Frictionless Onboarding

OpenRoaming for all stacks
(assure access to all available paths)

Seamless Interworking

Policy-based path selection for
Loosely coupled Access Networks

Seamless Handover

Roaming between Wi-Fi (private)
and cellular (public)

OpenRoaming Attach

Enables new convergence models between Enterprise and SP (e.g. indoor coverage)

Healthcare Example: indoor coverage issues solved



Customers Say...

- Happy visitors and patients
- Some users do not notice they are on Wi-Fi, but they notice good data / voice
- Reduced coverage complaints
- Clinical staff can focus on core tasks instead of getting people connected
- Lower burden on IT staff
- Fast and cost-effective indoor coverage

SP's and Cloud IDP's

Devices By IDP

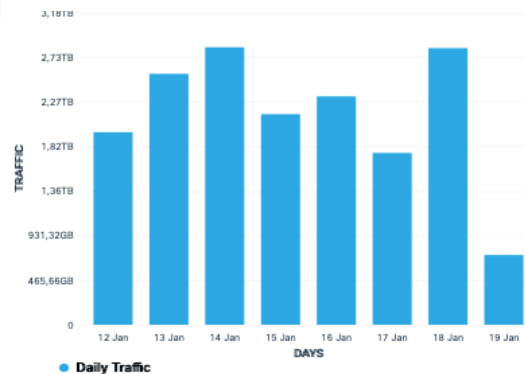
Distribution based on Identity provider.



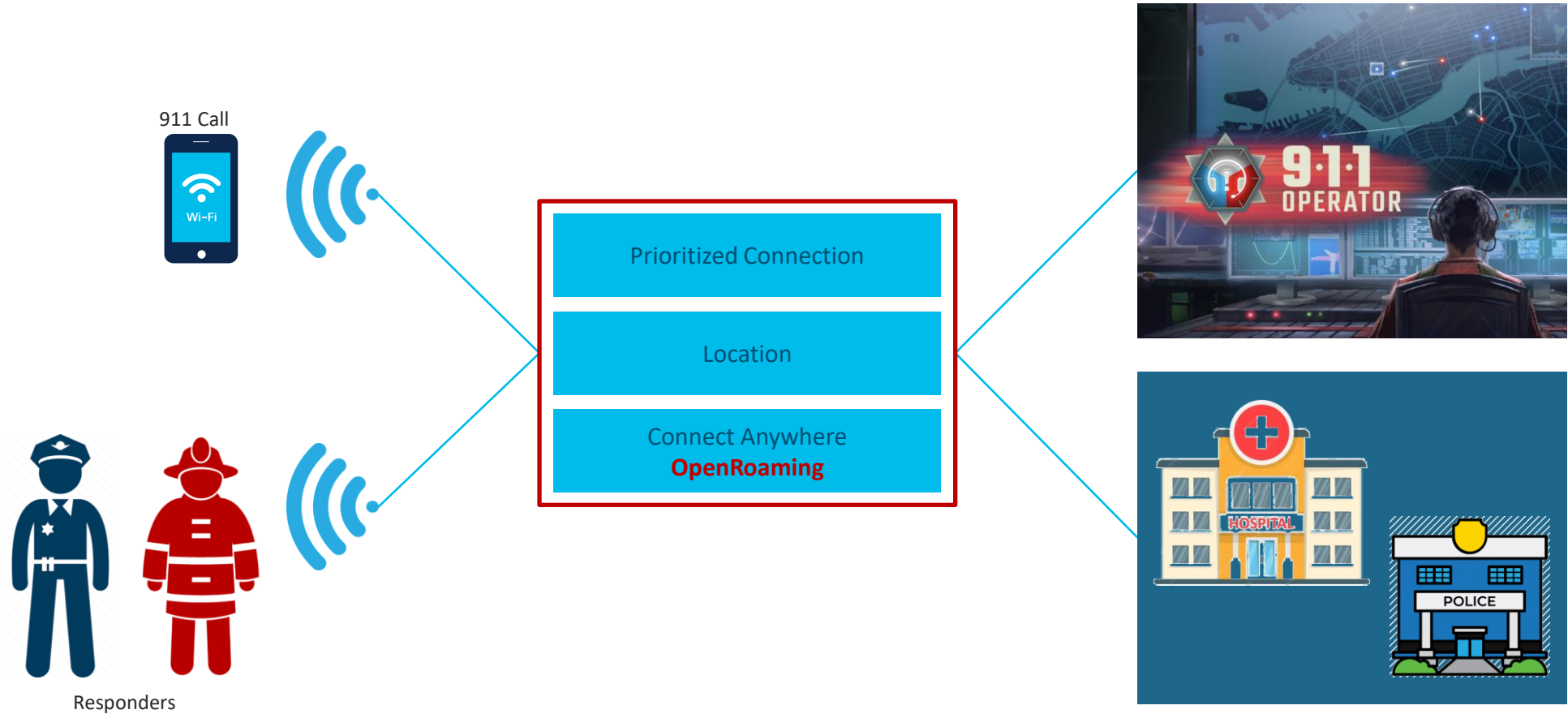
High Usage

Data Usage

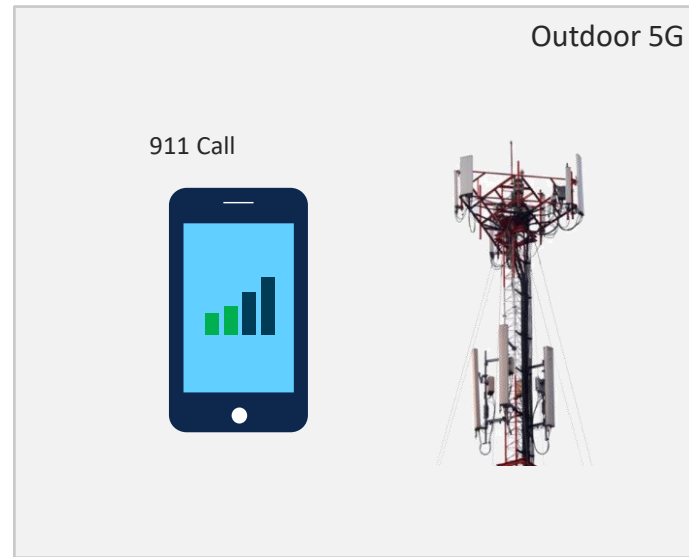
Total data exchanged on the network during the selected period.



e911 and Emergency Services



Emergency Services Convergence



Indoor Location Accuracy



OpenRoaming – Privacy Built-in

1

Authentication is private

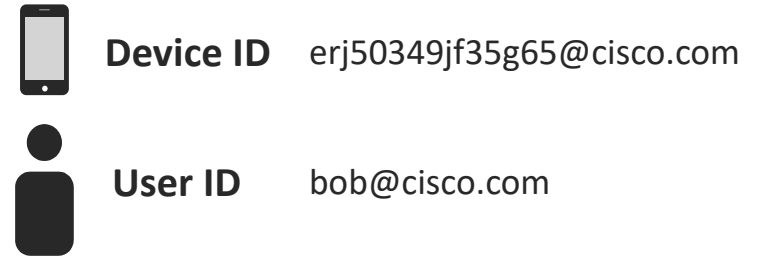
Secure and private authentication between user's device and IDP



2

User and device are identified in context

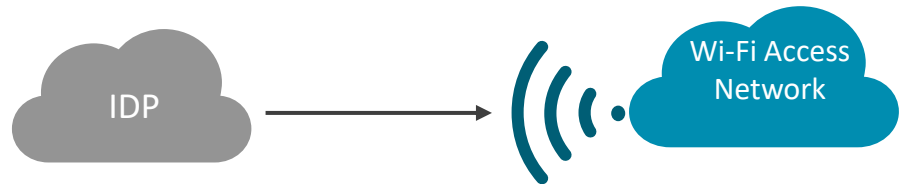
Identified with persistent Device ID and User ID with IDP context
IDP shares (anonymized) data in the secured path



3

IDP shares identities on the user's behalf

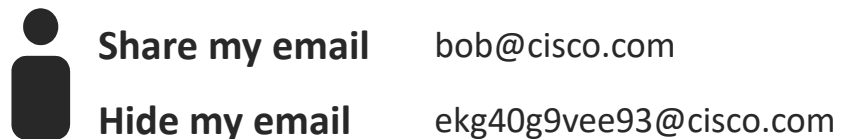
IDP manages identity and privacy for the user



4

Privacy with user consent

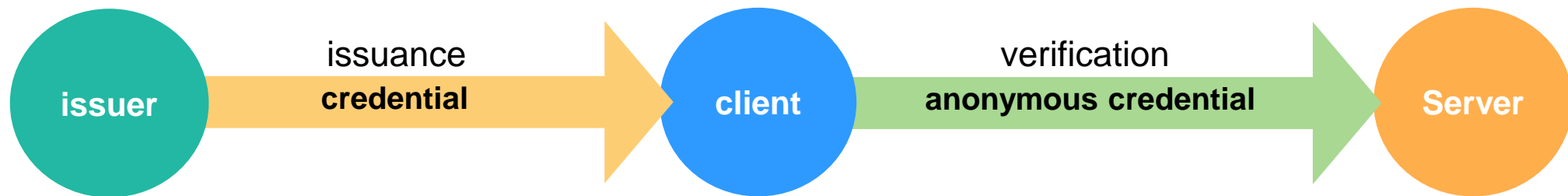
User controls privacy, identifiers are always persistent



Private OpenRoaming

Privacy Preserving Network Access at WBA

- An identity free credential
- "Unlinkability" between credential issuance and verification




WBA OPENROAMING GLOBAL PROGRESS

OpenRoaming growing 50% Year on Year


Momentum around new trials and global deployments

Stakeholder Adoption

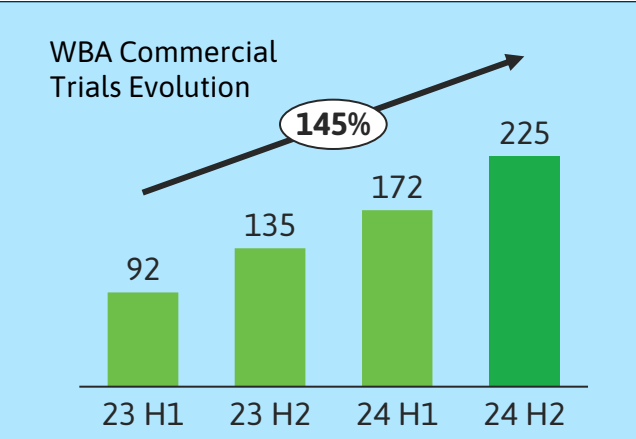


+4 Million
Live hotspots across the globe

~3000
Companies, Cities, Enterprises involved



Global coverage map (maps.openroaming.org)



Wide Range Availability






15+ Vendor OEM have productized









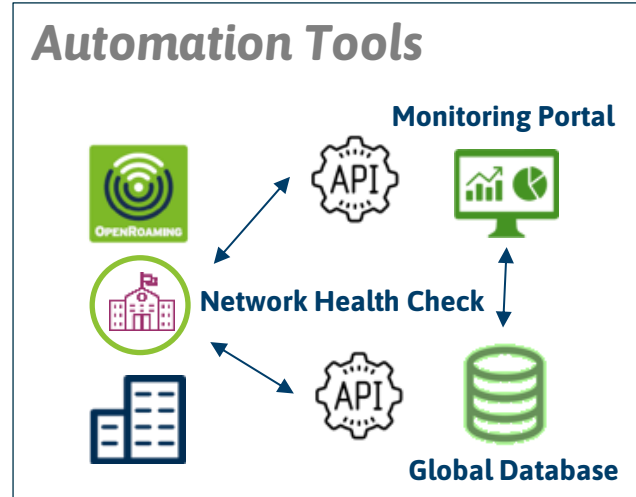

+40 Identity Providers





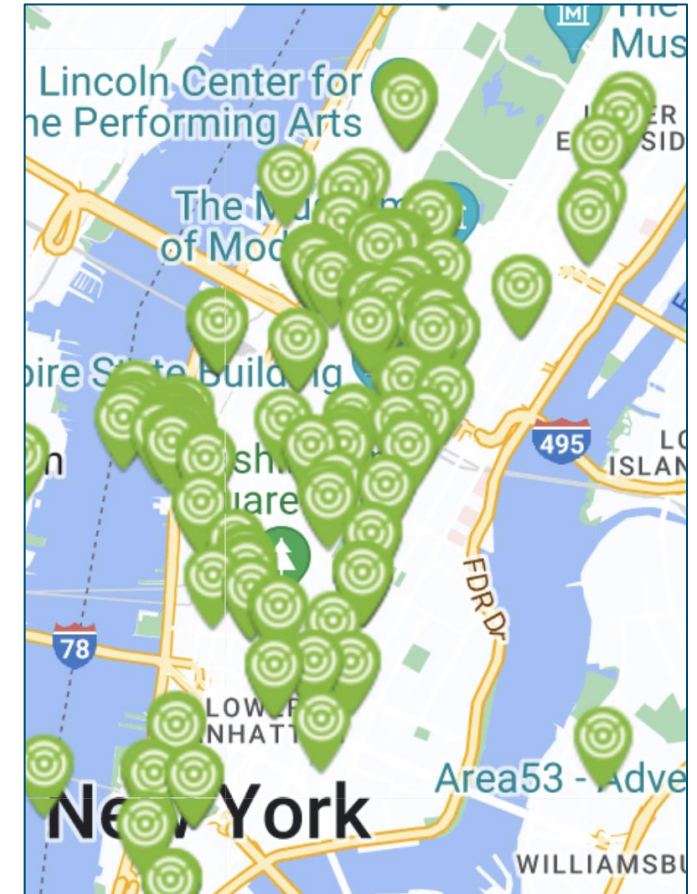
Identity Provider massification, virtually covering all the market (smartphones, tablets, laptops, IoT)



OpenRoaming leading the Public-Guest Wi-Fi new user experience, with adoption across industry verticals achieved

OpenRoaming Adoption



WBA OPENROAMING IN ACTION

Providing seamless and secure roaming across different municipalities, with fast and reliable authentication.

3.5M+ OpenRoaming Hotspots LIVE

200+ Deployments in Progress

1000+ Networks Live Globally

Find out more about OpenRoaming use cases



[Canary Wharf, London](#)



[Palma de Mallorca, Spain](#)



[Japan](#)



[City of Austin, 6th Street](#)



[Adventist Health](#)



[RAI Amsterdam](#)



[London Stadium](#)



[Chaudfontaine, Tervuren, Oostkamp, Olne, Belgium](#)



[Sao Paulo Airport, Brazil](#)



[San Jose State University, USA](#)



[Azores Islands](#)



WiFi4EU

Summary

OpenRoaming ...

- Solves a **real problem** ← there is industry pull!
 - Provides simple and secure connectivity without user intervention
 - Increases attach rates by 300-400%
- Enables **new roaming relationships**, driving **new business models**
 - Is the first step towards seamless Wi-Fi/5G Convergence
 - Has become a platform for new services: e911, Private Authentication
- Is generating **mass and gravity**
 - Is standardized at WBA
 - Adoption is growing 50% Y/Y





Maria Cuevas

Networks Research Director & BT Fellow

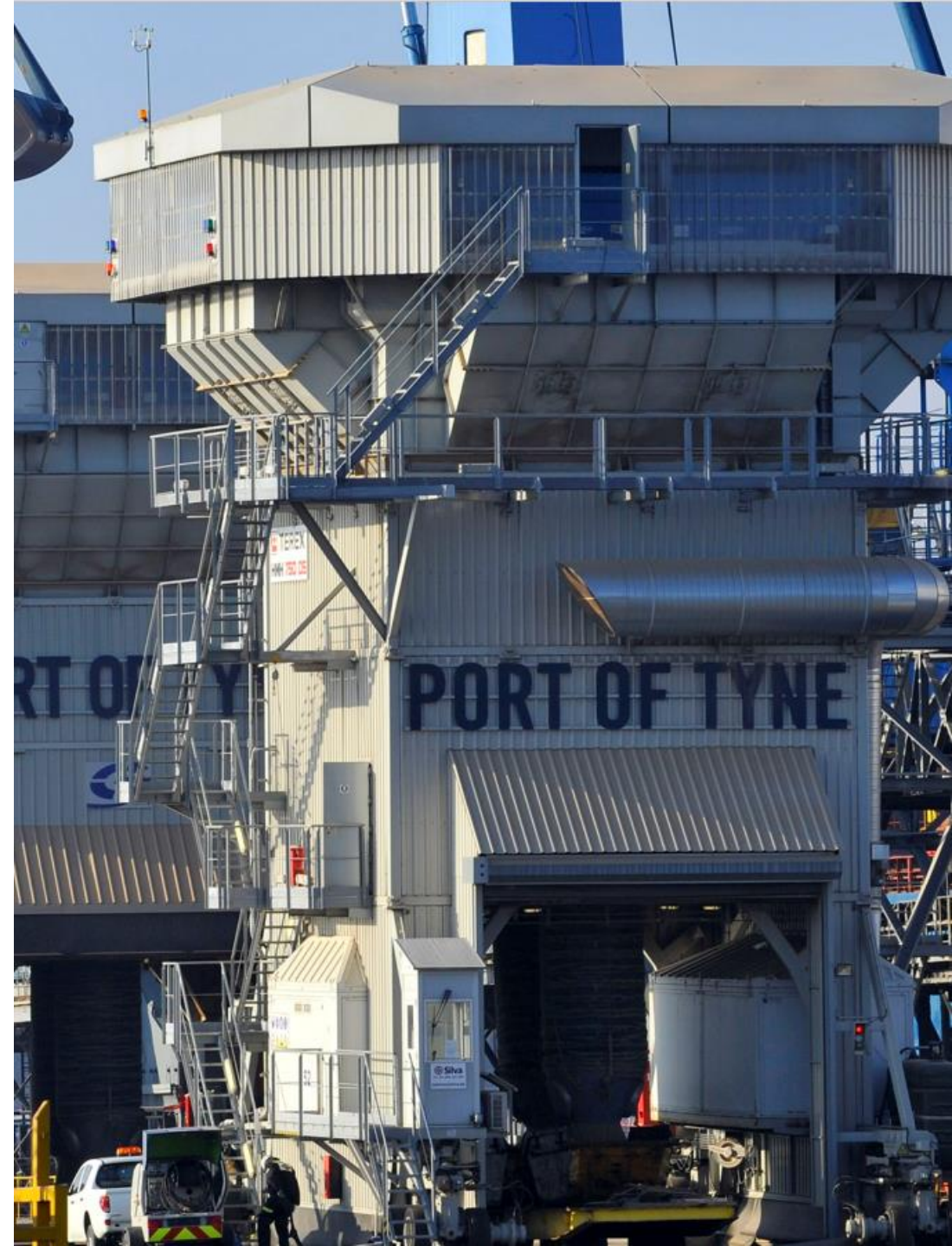
**Delivering Converged Solutions to
Meet the Needs of Enterprise
Organisations**



Delivering Converged Solutions to Meet the Needs of Enterprise Organisations

Maria Cuevas

Network Infrastructure Research Director and BT Fellow



Wireless Connectivity is mission critical to people and businesses

The line between business and personal needs is increasingly blurred for employees and customers



Connectivity available immediately, where needed, when needed.



Operational and Digital transformation, automation, cloud economics, and AI are introducing new requirements



Highly reliable, secure, on demand, underpinning outcome-driven solutions



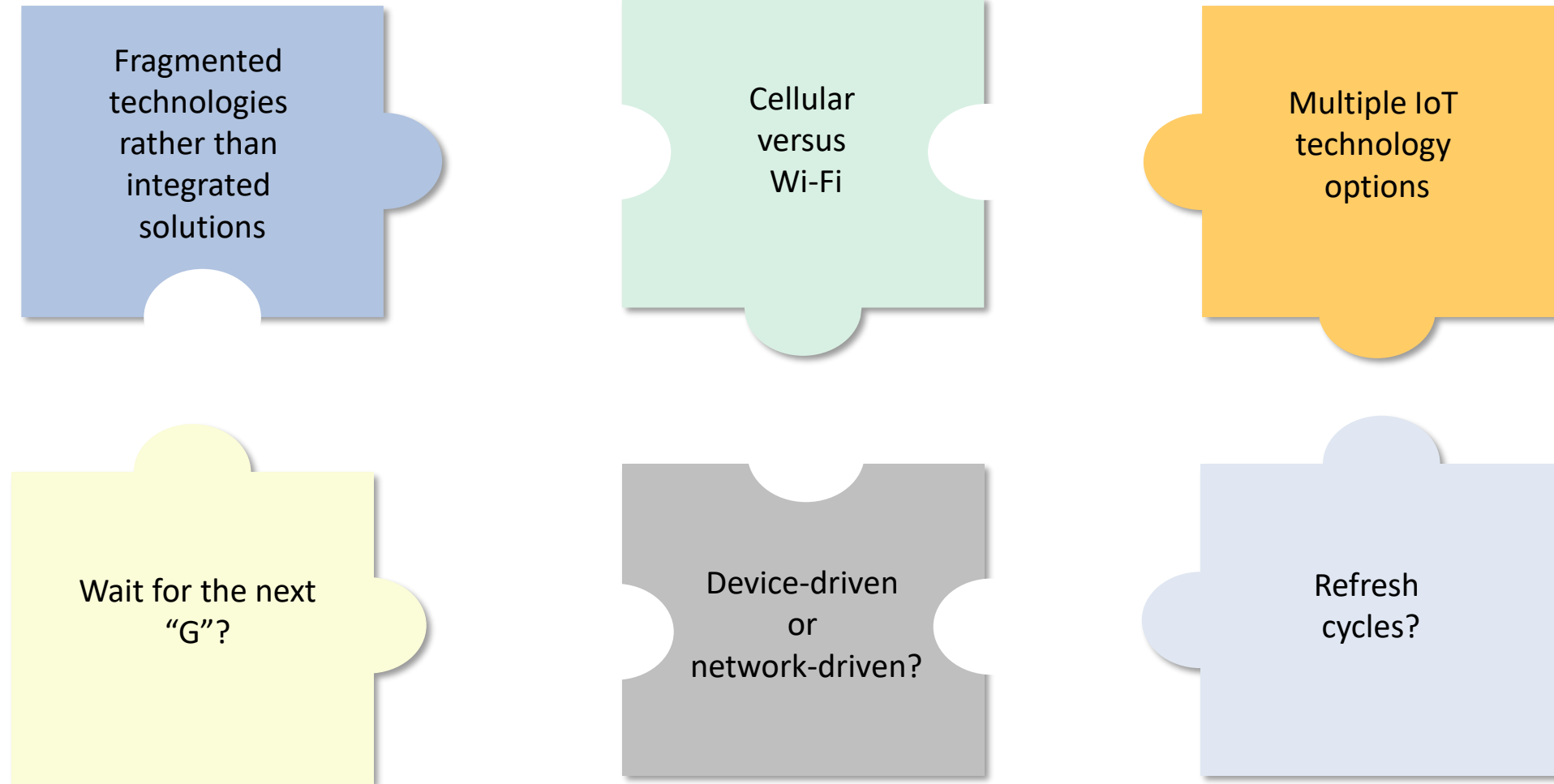
New commercial models driven by business innovation, enabled by technology capabilities



Flexible and adaptable “as a service” models, easy to integrate and future proof

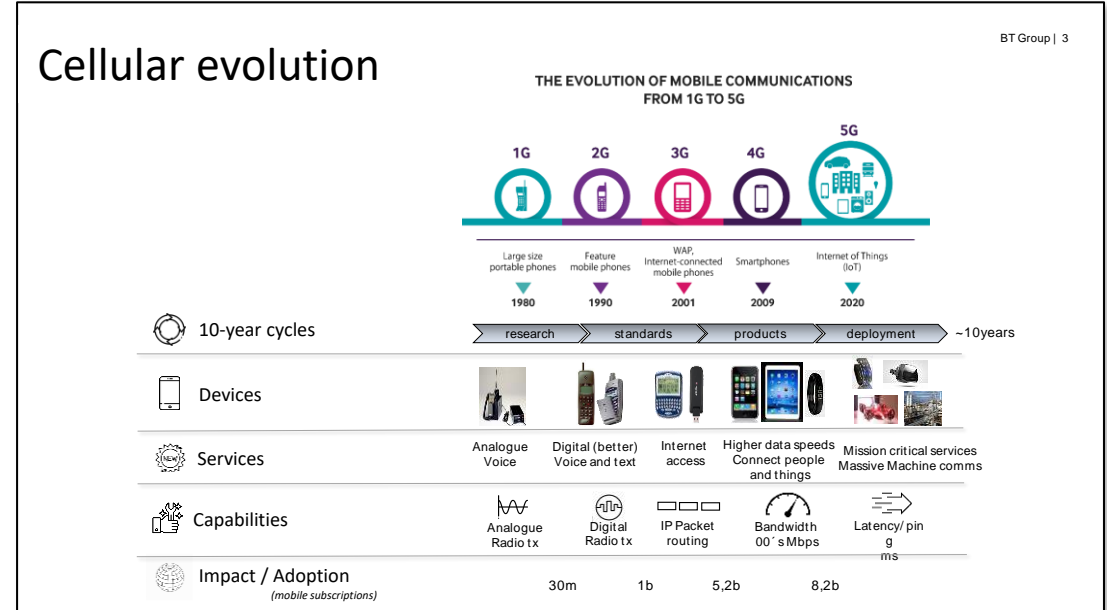
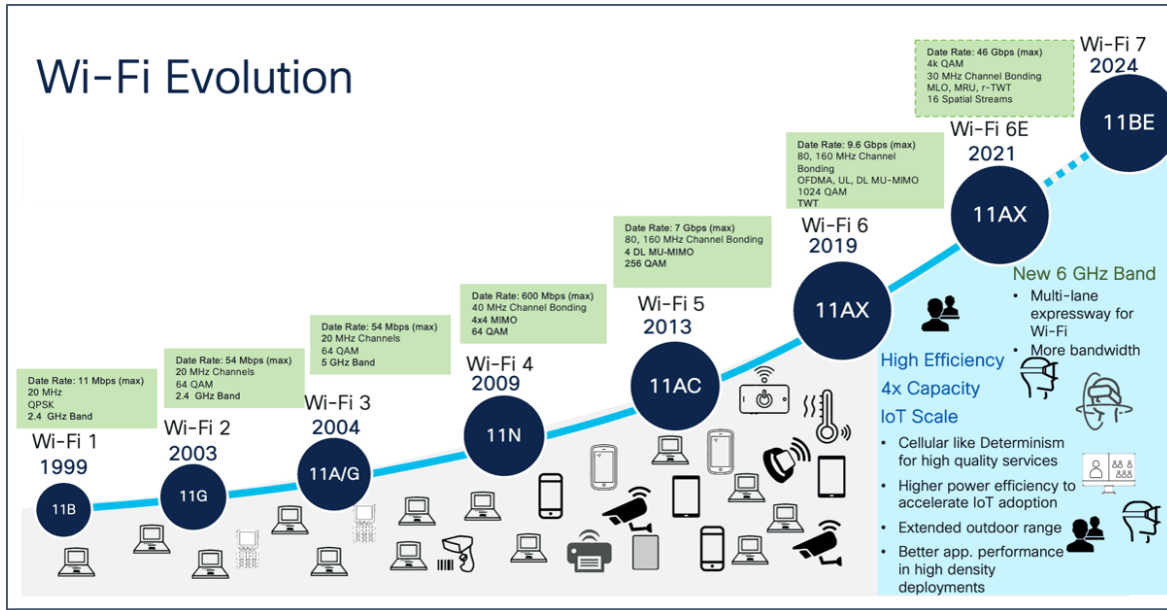


Today's telecoms industry standards and technology providers offer customers a fragmented picture

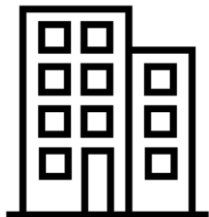


Meanwhile – margins for pure connectivity solutions are being squeezed and the value is going towards other parts of the ecosystem

Cellular and Wi-Fi technologies have evolved as parallel tracks



Unlicensed spectrum
Self/Un-planned
Indoor to outdoor



Data rates
Capacity
Reliability
Predictability
Tailored connectivity
Service differentiation

Licensed spectrum
Planned
Outdoor to indoor



Efforts to integrate Wi-Fi and cellular are delivering tangible customer benefits

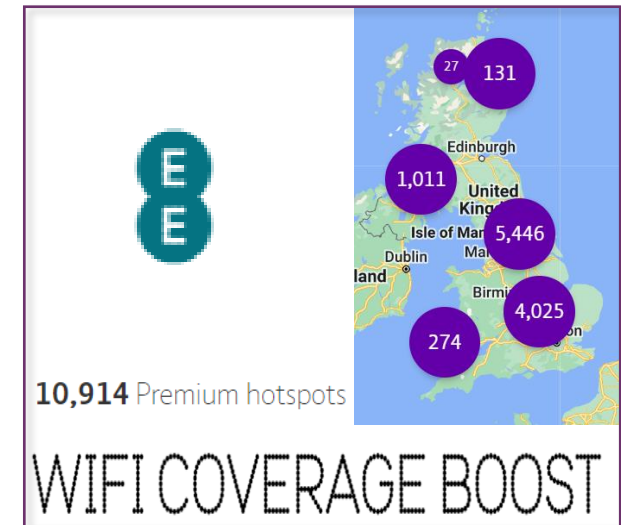
Wi-Fi calling
for indoor coverage



Cellular fallback
for enhanced reliability



EAP-SIM
for seamless authentication



Much more to be done – remaining challenges

Unified experience

Consistent Quality of Experience, Service Level Agreements, Value-add services



Value to the Customer



Best network selection

Driven by Service Quality, Energy efficiency, Reliability or other criteria, according to user needs

Cost of implementation

Tunnelling, encryption, functional duplication, traffic routing and processing



Industry Adoption



Widespread industry support

Device ecosystem, network equipment vendors, application and solution providers

Ease of integration

Modular capabilities, on demand consumption models, integrated via APIs.



Market growth

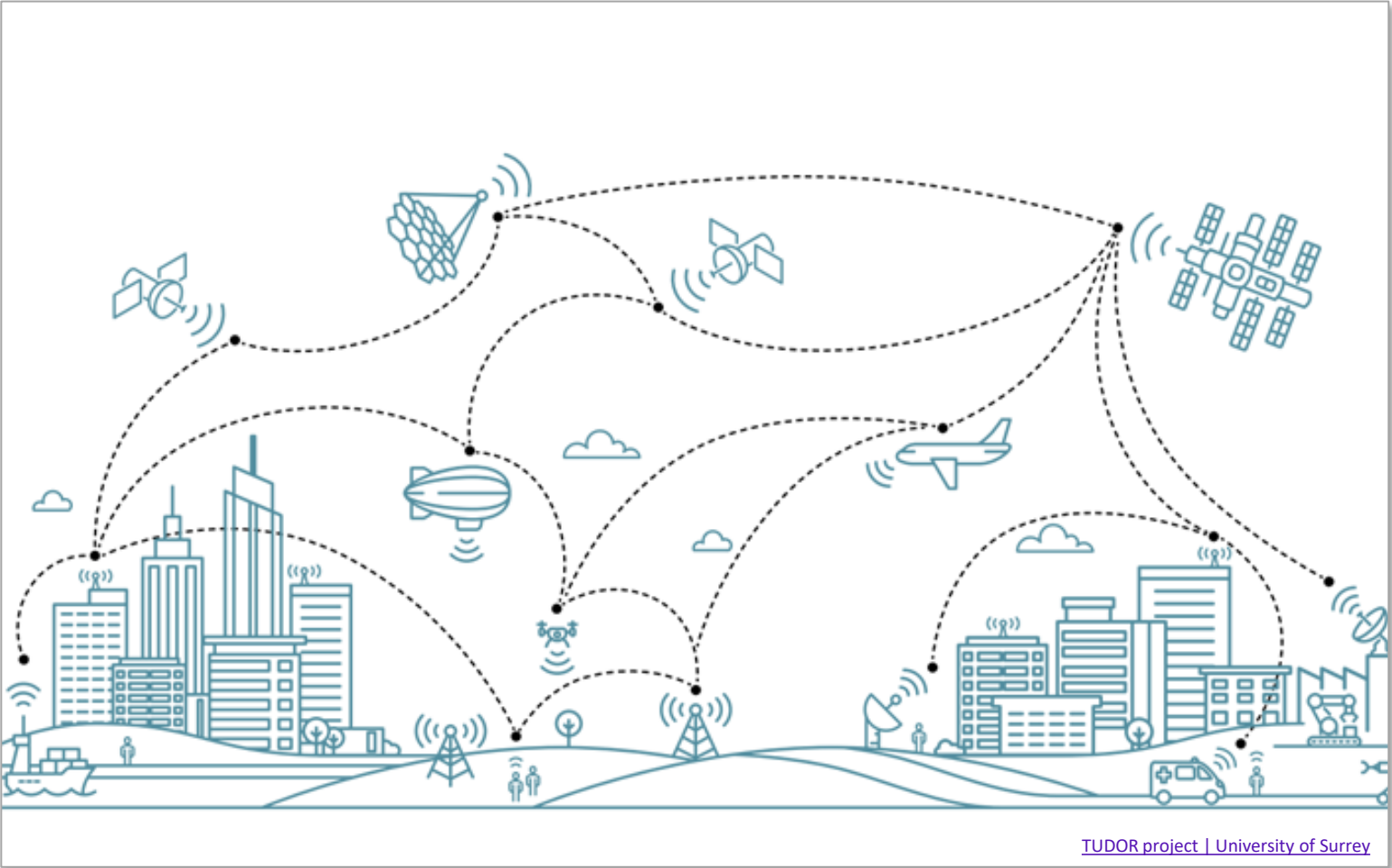


Business model innovation

Outcome driven solutions , built from reusable, flexible, customisable capabilities.

A Network of Networks Vision

An always best connected, seamless user experience, where needed, when needed. Underpinning new business models and industry growth





Thank you

Maria Cuevas

Network Infrastructure Research Director and BT Fellow



Panel: Enterprise Connectivity Forum



Mittal Parekh

Senior Director, Product, Technical and Influencer Marketing, RUCKUS Networks.



Ivan Muccini

VP Product
Cloud4Wi



Marc Mellini

Business Development Director,
JC Decaux.



Steve Namaseevayum

VP Industry Engagement
Wireless Broadband Alliance.

Ecosystem Players



AIRBUS



Deloitte.



2024 Activities



Meetings and Events

3 Meetings/Events during year, alongside WBA Wireless Global Congress

Case Studies Webinar

FiraBarcelona
Ahold Delhaize



Technology Advocacy

+200 OpenRoaming PoCs
Retail, stadiums, Hospitality, Convention Centers, Municipalities, ...



Panel: Enterprise Connectivity Forum



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**COFFEE BREAK & NETWORKING
PLEASE BE BACK FOR
11.25 AM CET**



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Alphonso Jenkins

Connected Communities Board Advisor
Wireless Broadband Alliance.

Session Moderator



Darryl Clarke
Encapto



Sean Sealey
Fuzion Tech



Giovanni Guerri
Cuglielmo



David Wilkins
Westminster City Council



Mittal Parekh
RUCKUS Networks.

Time	Presentation
11:25 AM (CET)	Moderator Introduction Alphonso Jenkins, Connected Communities Board Advisor, Wireless Broadband Alliance.
11:30AM (CET)	Driving Digital Inclusion in Remote Australian First Nation Communities with OpenRoaming Darryl Clarke, CEO, Encapto
11:50AM (CET)	Empowering Connectivity: Wi-Fi Video Surveillance and IoT Solutions Sean Sealey, CEO, Fuzion Tech.
12:05 PM (CET)	Wi-Fi Usage Analysis in Connected Communities Giovanni Guerri, CEO, Guglielmo.
12:20 PM (CET)	Panel Session - Connecting Communities: Wi-Fi Empowerment for the Under-served David Wilkins, Head of Digital Place, Westminster City Council; Giovanni Guerri, CEO and Co-founder, Guglielmo; Sean Sealey, Founder & CEO, Fuzion Tech; Jared Griffith, Sr Director Global Service Provider System Engineering, RUCKUS Wireless.
1:00 PM (CET)	Event Close Tiago Rodrigues, President & CEO, Wireless Broadband Alliance, Inc.
1:00 PM (CET)	Event Close



Darryl Clarke

CEO, Encapto.

Driving Digital Inclusion in Remote
Australian First Nation
Communities with OpenRoaming

Driving Digital Inclusion in Remote Australian First Nations Communities with OpenRoaming





Easyweb Digital has been designing, managing public WiFi networks across and New Zealand for over a decade



> 700,000

unique WiFi devices connected in past 12 months



> 4,000

wireless access points under management



90

combined years WiFi experience

Easyweb was an early pioneer in the deployment of solutions in Australia. Today, we provide market-leading solutions to a growing roster of government agencies chip corporate clients, with a particular focus on remote and isolated communities.



Encapto was born out of a need for scalable applications and is now used by some of the world's largest telecommunications



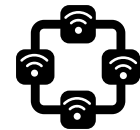
> 250,000

live hotspot enabled wireless access points globally



~ 1 Billion

global WiFi sessions in last 12 months



~ 30,000

live WiFi locations under management

Encapto WiFi applications connect tens of millions of users to the users to the Internet - from residents and tourists in municipalities from Paris to Ontario, to vast and remote communities across Australia, Africa and India.



Haasts Bluff School

Ikuntji

Digital Inclusion in Australian First Nations communities...

The ability to access, afford, and effectively use digital services is not a luxury – it is a requirement for full participation in contemporary social, economic, and civic life.



2% have **fixed home**



>90% of phone owners are on **pre-paid plans**



43% of the 1,545 First Nations communities and homelands **mobile service**



\$144 (€90) avg. monthly prepaid mobile price (typically 10Gb data allowance)



Majority of communities use **pre-paid power meters.**



30% or regular users **can complete online forms**



Mobility – community football football teams travel **300km** to to play weekend games

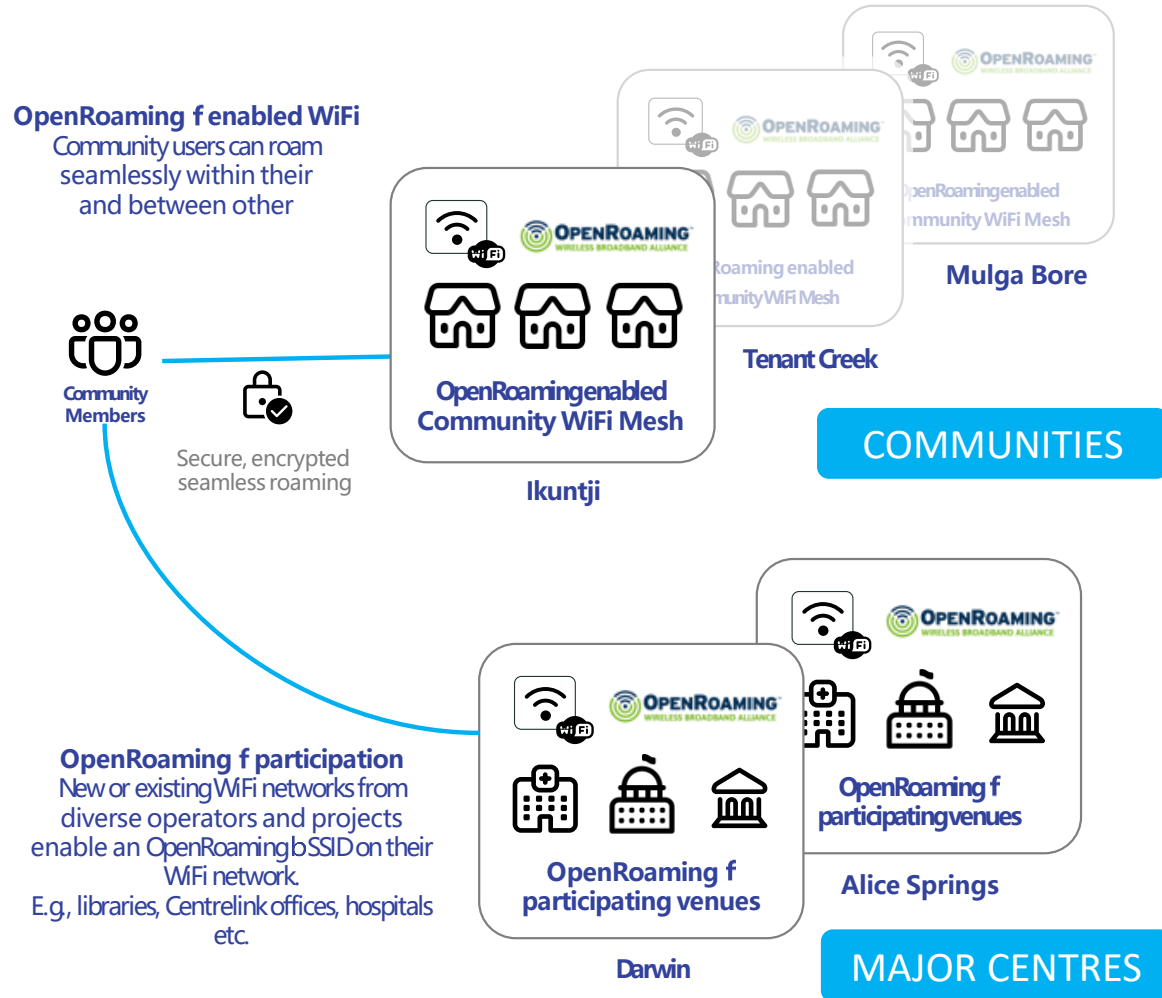


55% own or share a mobile mobile phone



53.3% of First Nations people surveyed surveyed **sacrificed paying for essentials** such as food or bills to stay stay connected.

OpenRoaming f enabled Community WiFi Mesh



OpenRoaming f via M/VNOs or ISPs

Communication providers enable OpenRoaming f for their subscribers and can roam onto the Community WiFi networks. Enables commercialisation use cases such as paid mobile data to be used on the networks.



OpenRoaming f agreements

OpenRoaming f can be provisioned to other user groups to enable seamless connectivity across communities. For example, healthcare workers can be provisioned with a high-speed, low-latency OpenRoaming f plan to enable robust connectivity for telehealth in the community.



Community Members

Seamless roaming to participating venues

Community members who were provisioned in their community are connected automatically to the OpenRoaming f WiFi in participating venues, growing WiFi coverage without the investment in new network infrastructure.



Dot Com Mob



A comprehensive solution to the challenge of bridging the digital divide for Remote and Remote and Regional Communities

OpenRoaming Networks

5G-like seamless roaming and future-proof commercialisation

Always On Internet

Equitable internet access, any time

Resilient Hardware Elements

Flexible and cost-effective deployment

Partner Portals

Simplified distribution and choice for premium access

Connect Smartphone App

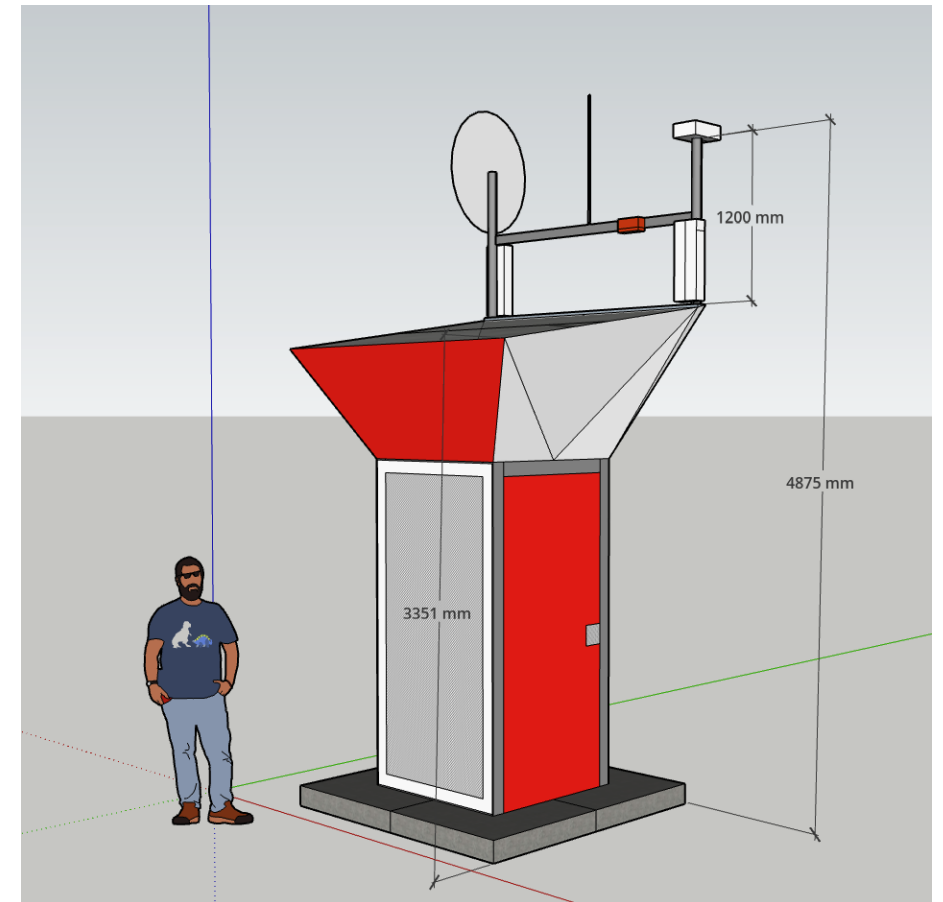
Improved user experience and communications to community

Co-creation & Cultural Safety

Working with communities to deliver a culturally safe service desk

Deep Network Insight & Optimisation

For illuminated proof of value for more informed decision-making





Sean Sealey

CEO, Fuzion Tech.

Empowering Connectivity: Wi-Fi Video Surveillance and IoT Solutions

Empowering Connectivity: Wi-Fi and Video Surveillance Solutions.



Organized by:



Sean M. Sealey
Founder & CEO

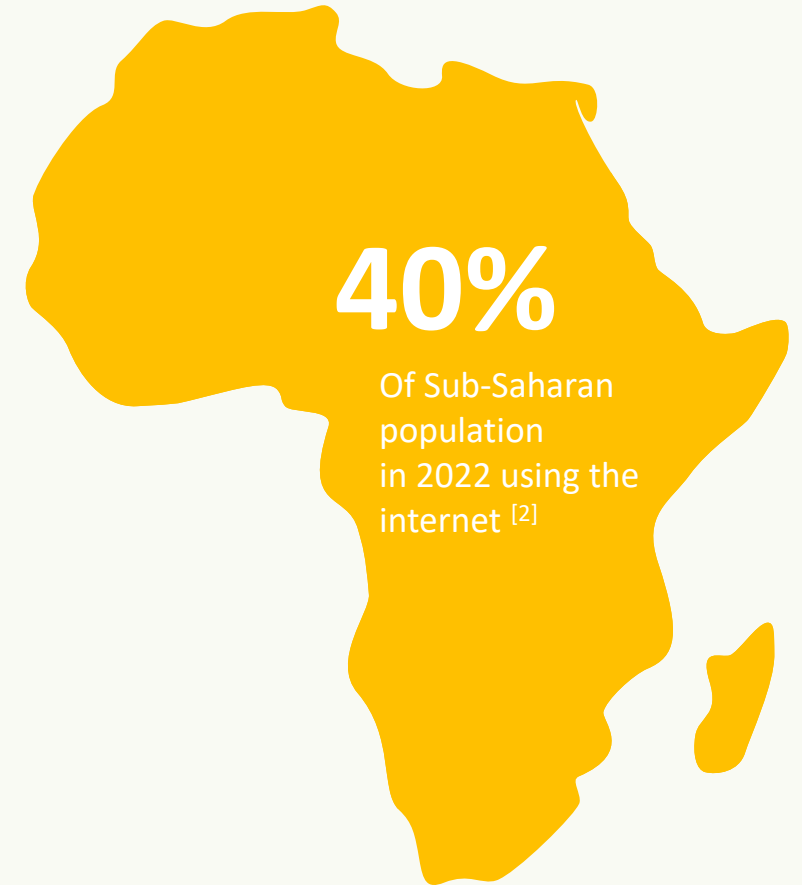
Connectivity in Africa

Fact:

Internet access undeniably leads to accelerated economic growth.

It is estimated that a 1% increase in connectivity is associated with a 5.7% increase in GDP. ^[1]

Economic growth leads to self-funded investments in communities and personal improvements: financial independence, productivity outputs, better education, and more. Thereby creating a pull-effect for the best use of resource utilization.



[1] Google - The Digital Opportunity of Sub-Saharan Africa

[2] <https://www.itu.int/itu-d/reports/statistics/2022/11/24/ff22-internet-use/>

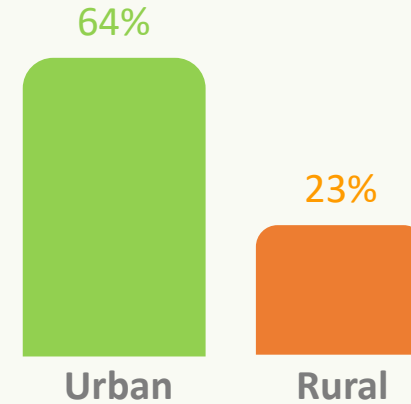
Africa's connectivity divide

Large investments have been made in connectivity in Africa but benefitting primarily metropolitan areas where population density is high.

Why?

For maximum Return on Investment, you require 24/7/365 uptime. The internet is not an intermittent experience.

Very expensive for mobile operators in rural and remote areas.



64%

of individuals are using the internet in urban areas. ^[3]

23%

of individuals are using the internet in rural areas. ^[3]

[3] <https://www.itu.int/itu-d/reports/statistics/2022/11/24/ff22-internet-use-in-urban-and-rural-areas/>

State of the Power Grid in Africa

Africa is the most energy-deficient continent in the world, as **it hosts 75 % of the world's population without access to electricity.** [4]

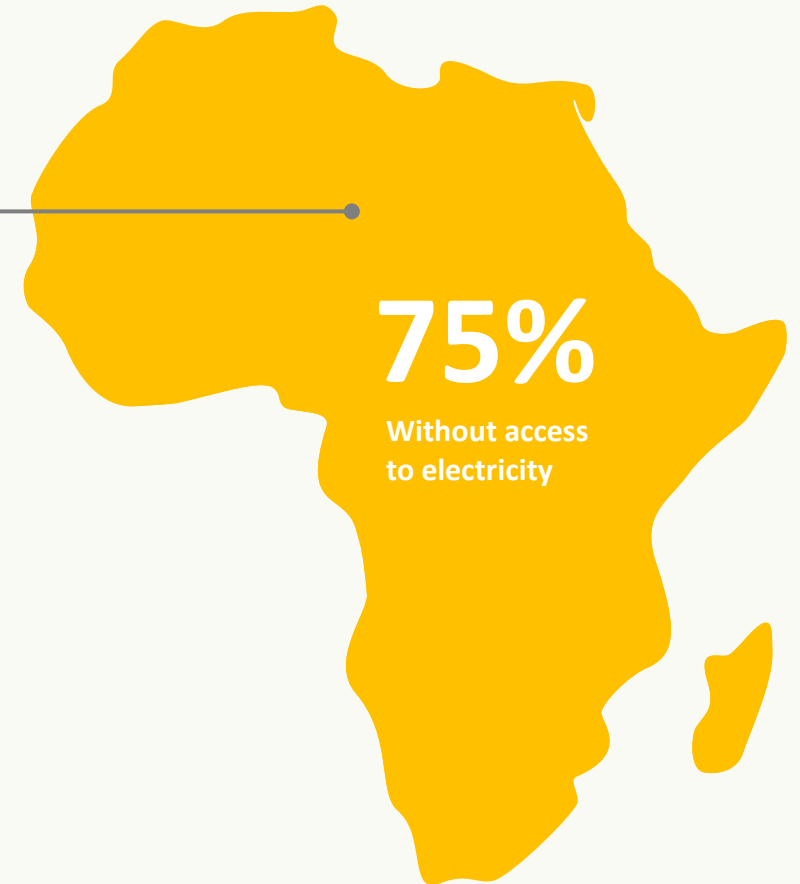
Over **600 million people in Africa** still lack access to electricity, making it difficult to **affordably** sustain reliable internet infrastructure in many regions.

1.5B

People in 2024

2.5B

People in 2050



[4] <https://www.csis.org/analysis/achieving-universal-energy-access-africa-amid-global-decarbonization>. January 2024.

About Fuzion



At Fuzion, we're driven by a simple yet powerful mission - to ensure anyone and anything can connect to the internet - a foundation for creating prosperity for individuals, families and organizations alike.



Fuzion leverages infinite clean fusion energy to power a wide array of internet enabling devices.

Design Values



Plug & Play

No need for physical changes or modifications—simply click buttons to adjust power output settings.

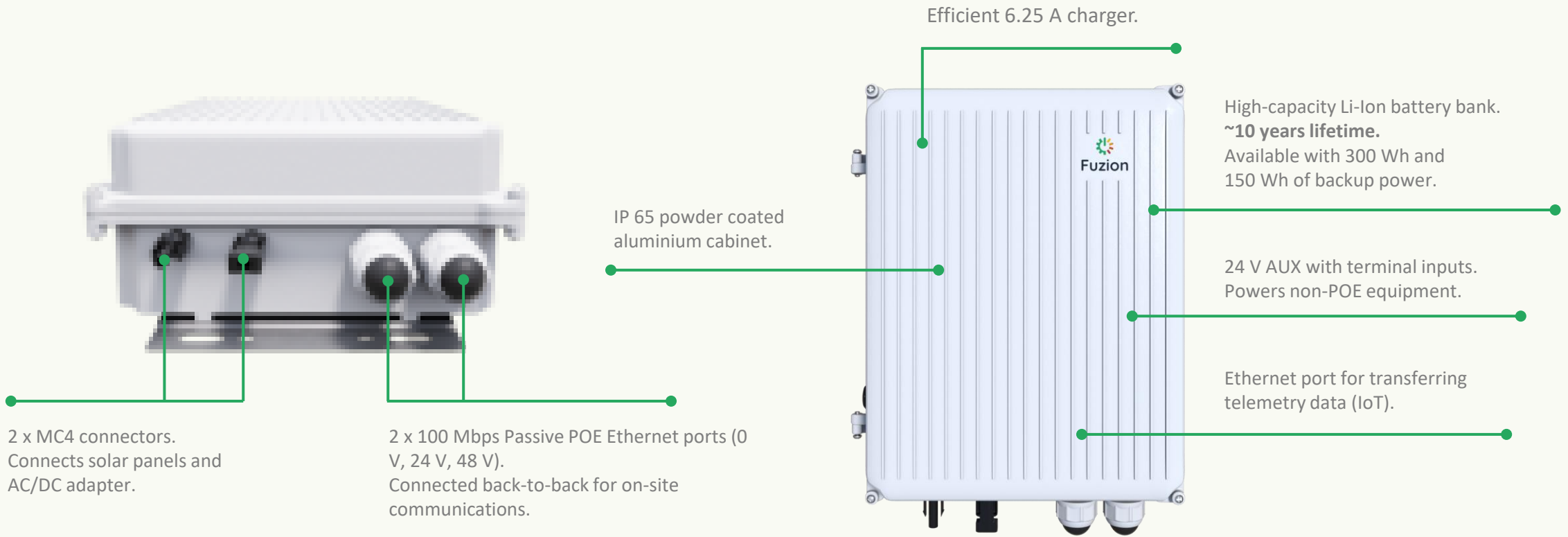


Deploy & Forget

With up to ten-year lifetime on the battery cells, our products keep your networks running without the hassle of constant adjustments and fixes.



Fuzion FTP-300



High Power to size ratio



Deploy and forget



Remote power monitoring



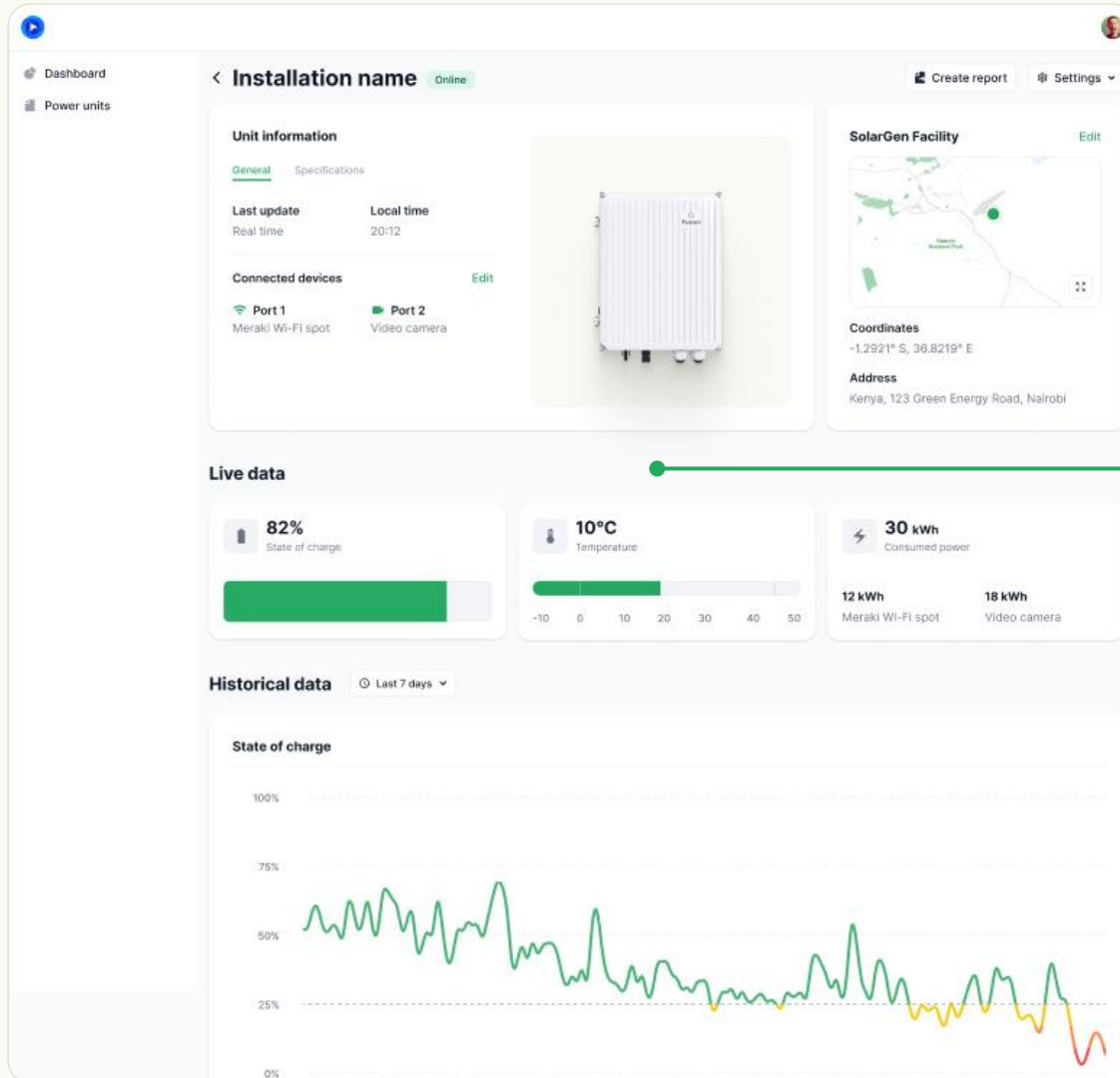
Powerful long-lasting battery



Multiple options for power input



Versatile



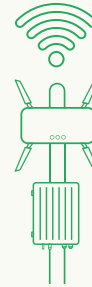
Deployment dashboard provides insights into usage of network, uptime etc.

Data can be leveraged in carbon offset markets to monetize solar power generation.

Common Applications



Enabling six different applications with one product



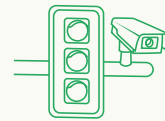
Municipal Wi-Fi



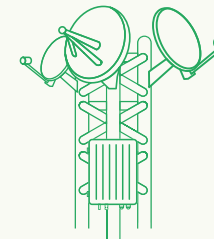
Video Surveillance



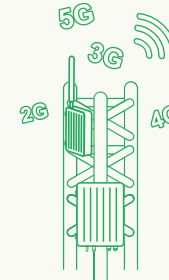
IoT Installations



Traffic Control



Microwave Relay Sites

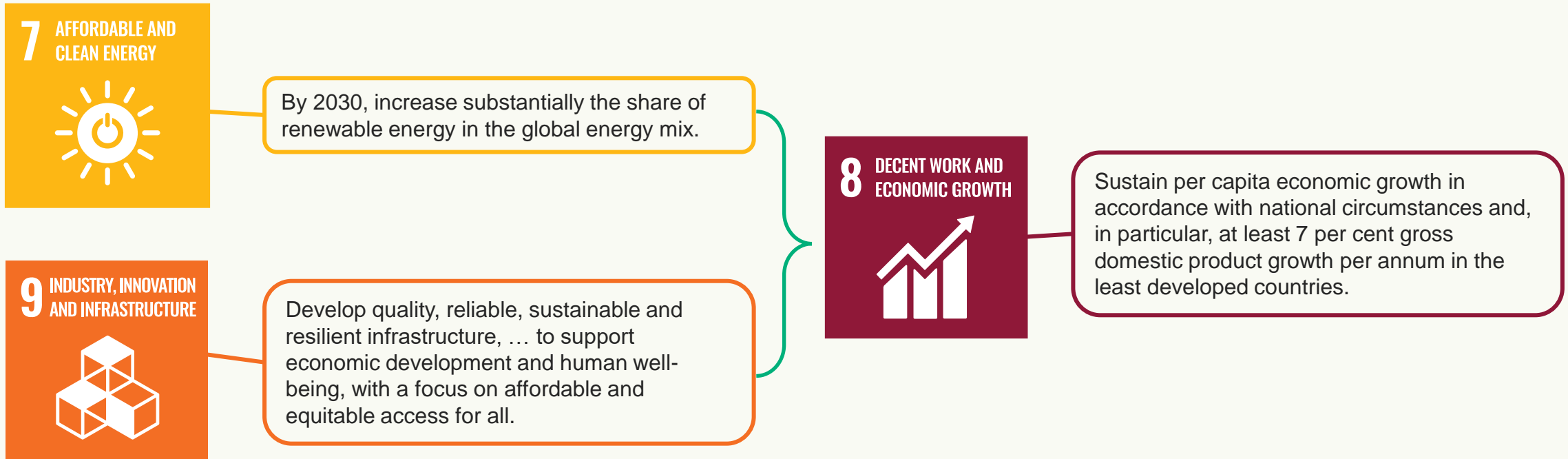


Small Mobile Base Stations

Sustainable Development

Powering networks with Fuzion directly addresses multiple UN Sustainable Development Goals.

Each FTP-300 approximately **saves 175 kg of CO2** emissions per year, thereby attributing directly to the achievement of Sustainable Development Goal 7.





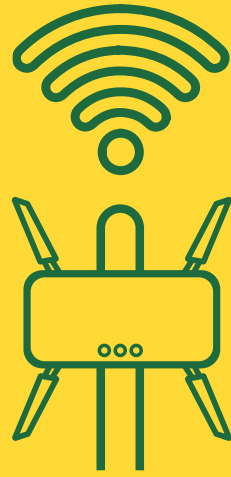
Solar Charged Wi-Fi hotspot

Solar charged Wi-Fi hotspot with Cambium Force 200-25 for middle-mile and Cambium E500 for access. Deployed in Mozambique in 2020. Still operating.



IoT Installation

Solar charged Wi-Fi network for IoT sensors. Deployed in California in 2019. Still operating.



**Municipal
WiFi**

Challenge

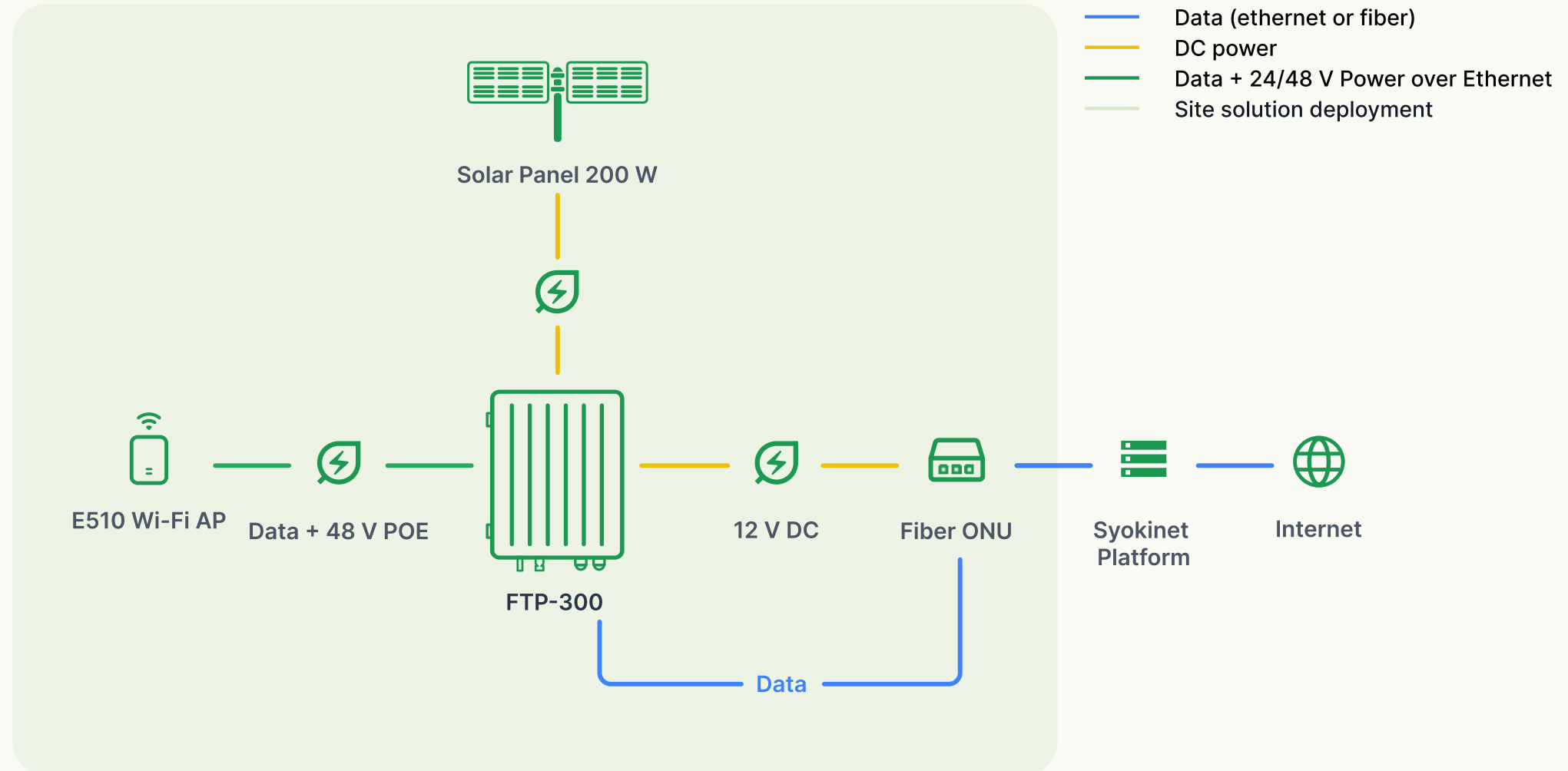


- Wanted to increase the customer value of their fiber network.
- Decided on launching a high-speed Wi-Fi network with affordable product packages and focusing on areas with high footfall such as bus stations, marketplaces, etc.
- Had access to deploy network infrastructure in poles owned by the public.
- No easy access to AC power.
- Tested an internally developed solar power solution with various off-the-shelf components, but it ended up being a costly non-scalable science project.

Municipal Wi-Fi Solution with Fiber Backhaul



Solution



Municipal Wi-Fi Solution

Benefits

- FTP-300 delivers excellent uptime in harsh weather conditions. **No downtime** during worst weather in Nairobi for years.
- FTP-300 is a rugged and proven power solution for internet enabling devices – perfect for outdoor deployments.
- The **Plug & Play** nature of FTP-300 with 24V/48V POE and AUX DC enables *Syokinet* to deploy a wide variety of devices in a simple manner.

Solar Charged Wi-Fi hotspot



Municipal Wi-Fi Solution



Challenge



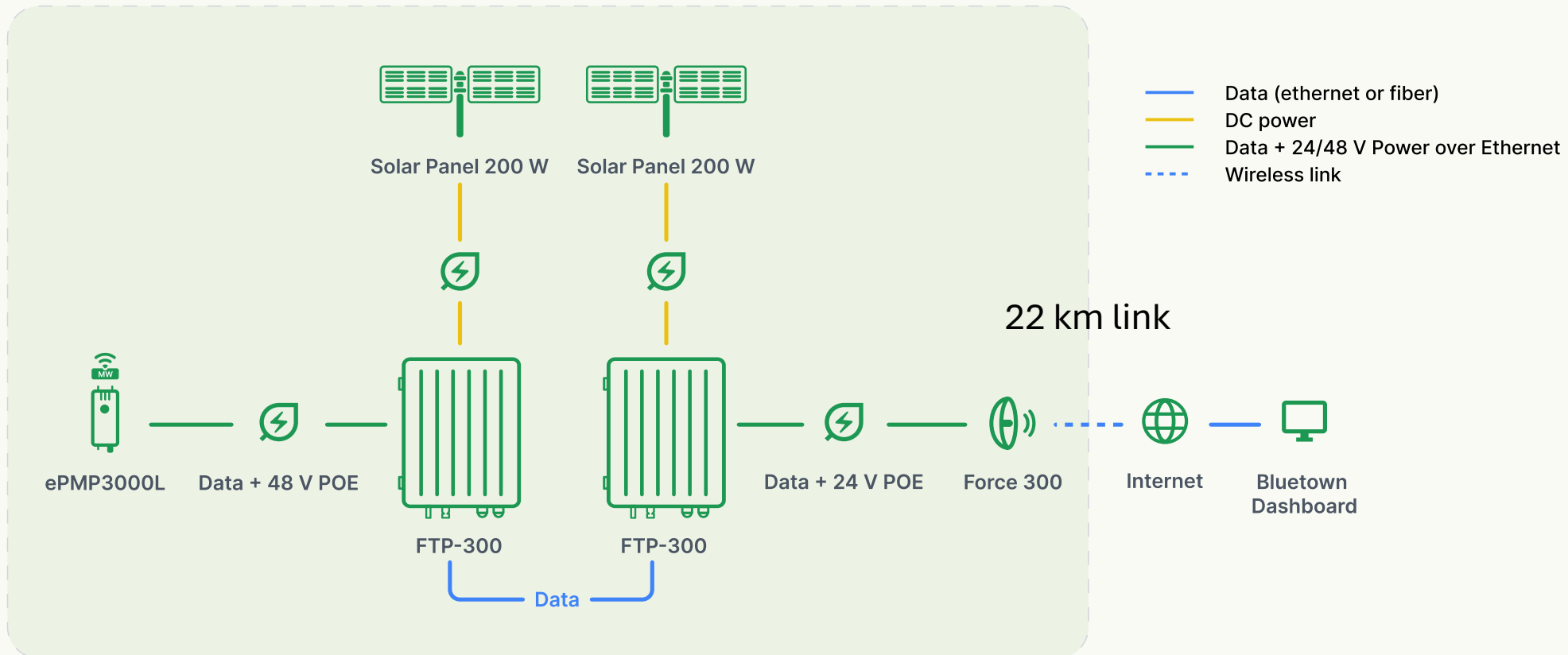
Connecting the unconnected

- Funded by USAID to deliver affordable Wi-Fi connectivity in some rural communities in Ghana.
- No access to reliable power.
- No access to existing internet infrastructure (fiber & mobile)

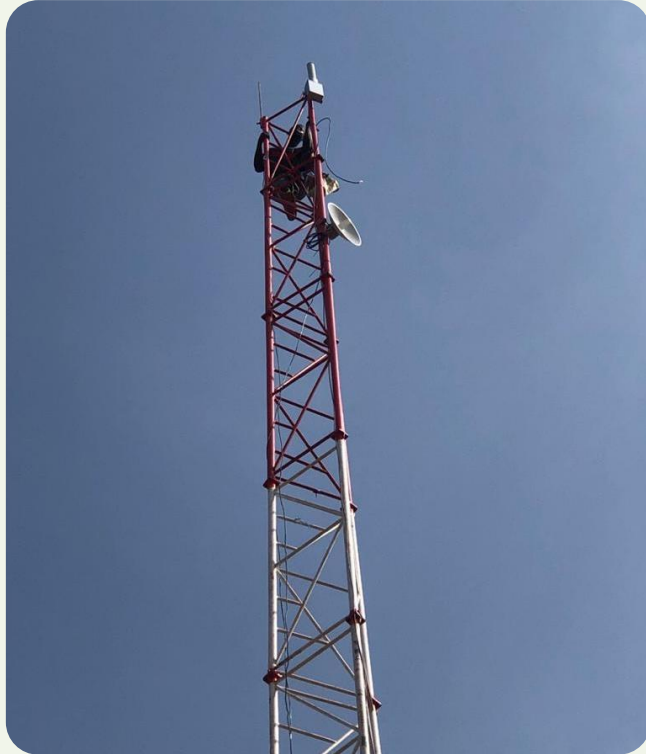
Rural Micropop with MW Backhaul

Solution

Bring internet connectivity to the village and distribute via MW.



Rural Micropop with MW Backhaul



Solar Charged MicroPoP

Solar charged MicroPOP with Cambium ePMP3000L for MW distribution in village and Force 300 for backhaul. 6 months uptime according to cnMaestro.

Rural Micropop with MW Backhaul



MicroPoP Uptime

GHECUMB0001_PTP02_MP | Access Point 1 EN 6 Administrator

Status

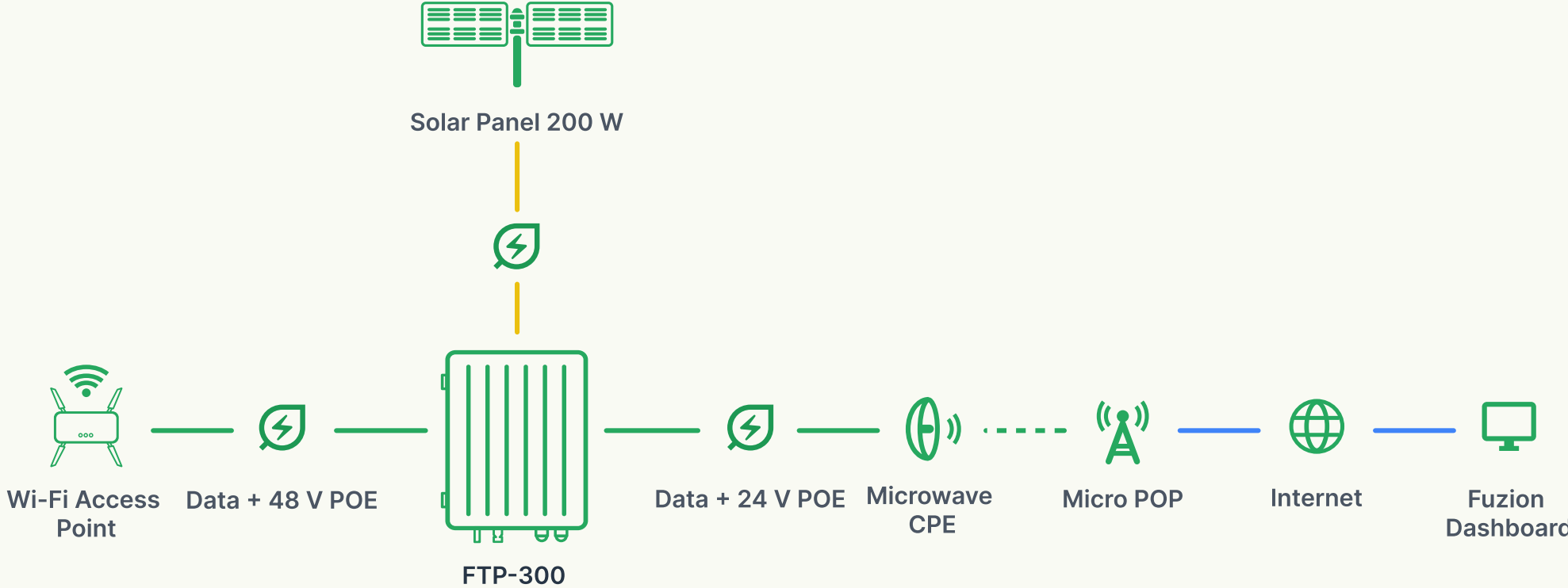
Device Name	GHECUMB0001_PTP02_MP	Wireless MAC Address	00:04:56:25:28:D3
SSID	GHECUMB0001_PTP02_MP	Ethernet MAC Address	00:04:56:25:28:D2
Operating Frequency	5 425 MHz	IP Address	10.114.131.100
Operating Channel Bandwidth	20 MHz	Date and Time	17 May 2023, 03:14:37 GMT
Transmitter Output Power	18 dBm	System Uptime	182 days, 16 hours, 4 minutes, 38 seconds
Antenna Gain	20 dBi	System Description	Adonkwanta MicroPoP
Country	Other	Sync Source Status	Internal (No Sync)
Access Point Mode	TDD	Device Coordinates	6.171735, -0.426769
Downlink/Uplink Frame Ratio	75/25	Ethernet Status	100 Mbps / Full
Wireless Security	WPA2	Wireless Status	Up
cnMaestro Remote Management	Enabled	Registered Subscriber Modules	5
cnMaestro Connection Status	Connected to cnmaestro.bluetown.com	Registered Elevate Subscriber Modules	0
cnMaestro Account ID	cnmaestro_on_premises	Uplink Antenna	Sector Antenna
		Power Supply	Generic Power Supply

MicroPoP has 6 months uptime according to Cambium cnMaestro dashboard.

Municipal Wi-Fi Solution with MW Backhaul



Solution



Municipal Wi-Fi Solution with MW Backhaul



Solar Charged Wi-Fi hotspots



Solar charged Wi-Fi hotspot with Cambium Force 130 for middle-mile and Cambium E500 for access. 6 months+ uptime according to cnMaestro.



Solar charged Wi-Fi hotspot with Cambium Force 200-25 for middle-mile and Ruckus T310t for access.



Solar charged Wi-Fi hotspot with Carlson Wireless TVWS CPE for middle mile and Indio Networks AC530 for access.

Municipal Wi-Fi Solution with MW Backhaul



MB0001_PTP02_MP_CPE05 | Subscriber Module

EN 3 Administrator

Home

Device Name	GHECUMB0001_PTP02_MP_CPE05
Operating Frequency	5425 MHz
Operating Channel Bandwidth	20 MHz
Transmitter Output Power	24 dBm
Antenna Gain	14 dBi
Country	Other
Subscriber Module Mode	TDD
Network Mode	Bridge
Downlink RSSI	-57 dBm
Downlink SNR	34 dB
Uplink MCS	MCS 15 - 64-QAM 5/6
Downlink MCS	MCS 15 - 64-QAM 5/6
cnMaestro Remote Management	Enabled- The Registered AP Is Onboarded
cnMaestro Connection Status	Connected to cnmaestro.bluetown.com
cnMaestro Account ID	cnmaestro on premises

Wireless MAC Address	BC:E6:7C:62:9B:D5
Ethernet MAC Address	BC:E6:7C:62:9B:D4
IP Address	10.114.131.91
Date and Time	17 May 2023, 03:18:42 GMT
System Uptime	185 days, 13 hours, 1 minute, 37 seconds
System Description	--
Registered AP SSID	GHECUMB0001_PTP02_MP
Registered AP MAC Address	00:04:56:25:28:D3
Device Coordinates	6.16988,-0.4262409
Link Quality (Uplink)	100 %
Link Capacity (Uplink)	100 %
Ethernet Status	100 Mbps / Full
Wireless Status	Up

Wi-Fi Hotspot with 6 months uptime according to Cambium cnMaestro dashboard.



Solar Charged Wi-Fi Hotspot

Solar charged Wi-Fi hotspot with Cambium Force 300-25L for middle-mile and Cambium XV2-2T0 for access, in marketplace in Nieri, Kenya. Part of govt. project.

300 – 400 users benefitting from free Wi-Fi on market days.



**Video
Surveillance**

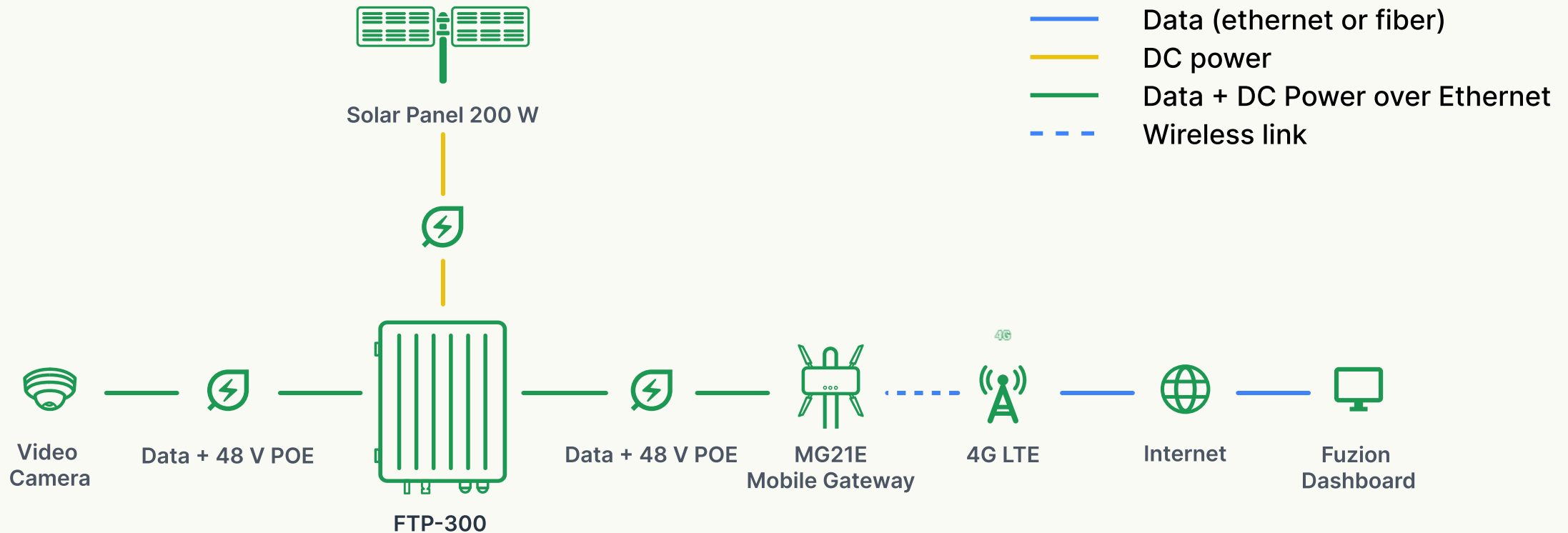
Challenge



- Has a market leading range of video surveillance cameras and mobile gateways.
- Developing opportunities with total of 100,000+ cameras.
- In areas with no easy access to AC power.
- No Plug & Play solution for solar power.

Video Surveillance with Mobile Backhaul

Solution



Video Surveillance with Mobile Backhaul



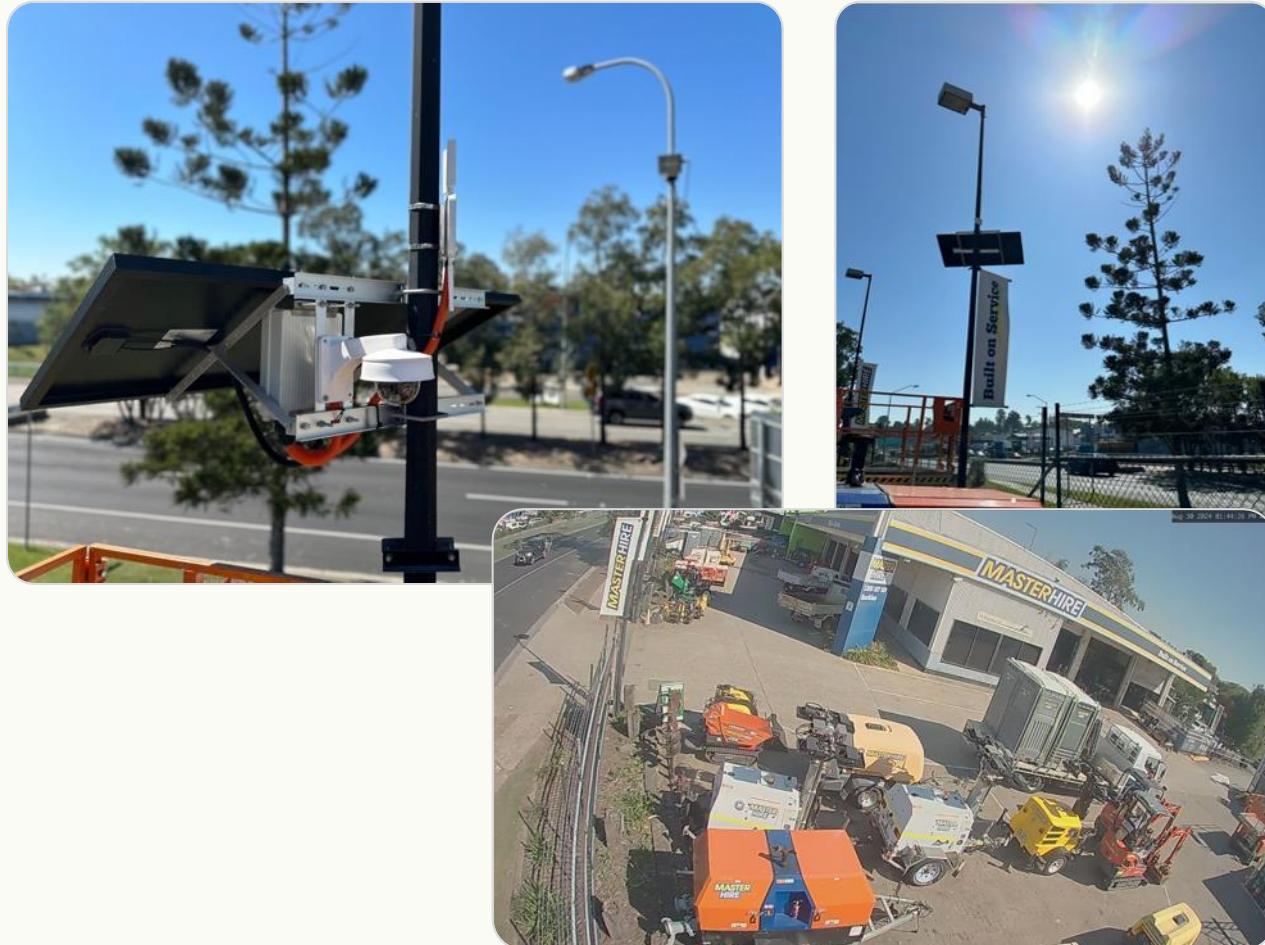
Solar Charged Video Surveillance

Meraki surveillance solution designed for utility service in Queensland, Australia.

Australia “Success” Story



Fuzion partner AltTab in Australia deployed video surveillance Proof of Concept for Master Hire – construction equipment rental service.



Less than one week after, video captures thieves stealing tires and small equipment from monitored area.



IoT
Installations

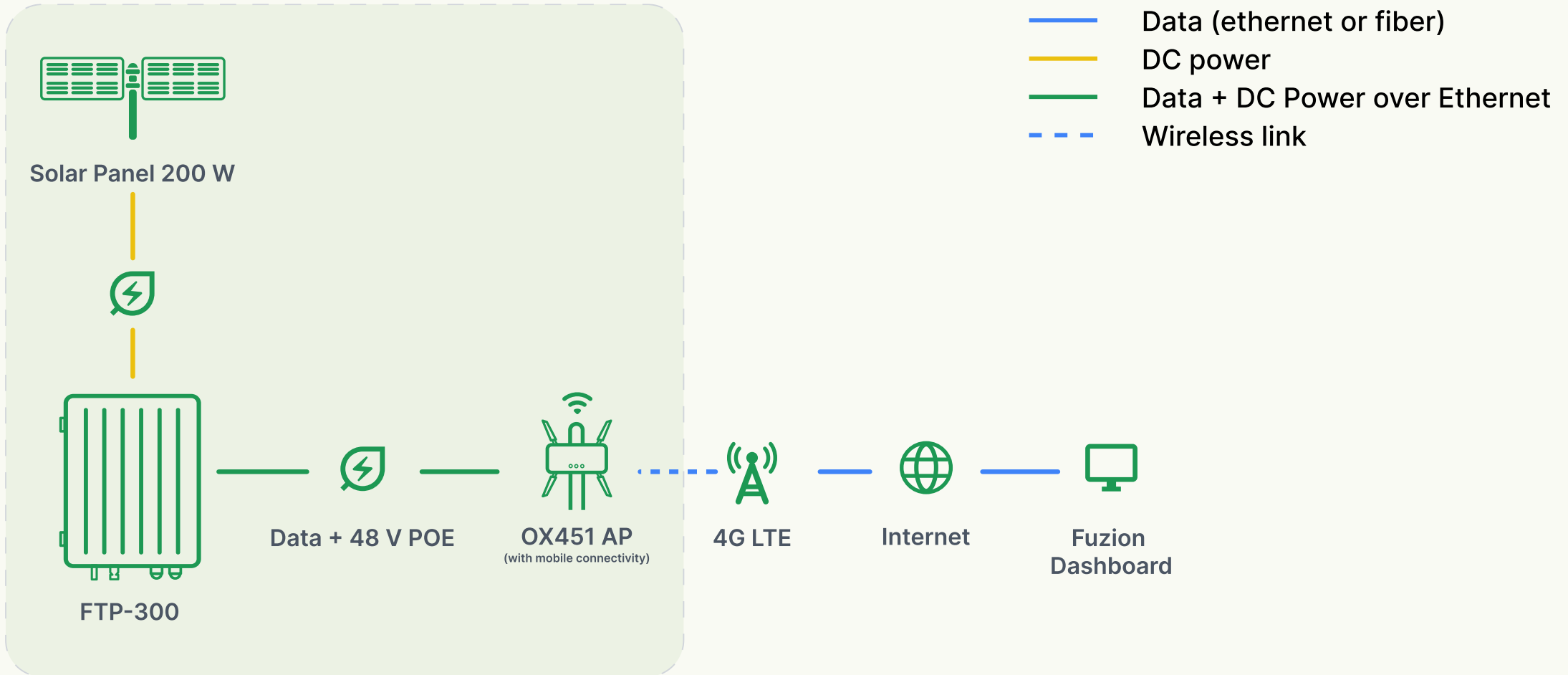
Challenge



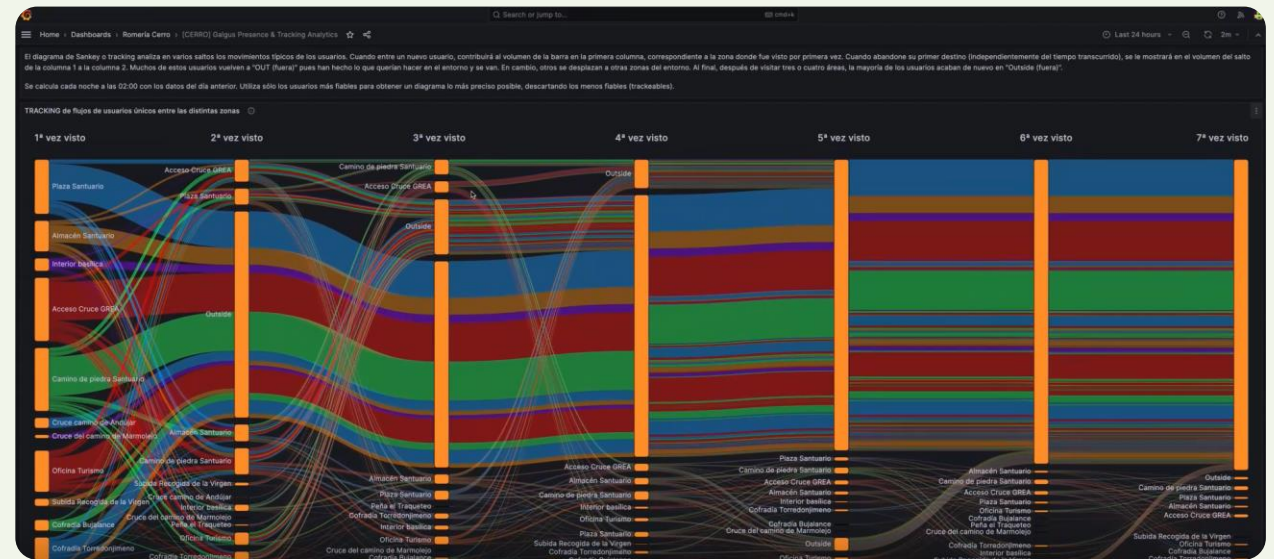
- Managing security at the extensive and remote Pilgrimage of the Virgin of Cabeza, with over 500,000 attendees dispersed across the Sierra de Andújar Natural Park, required constant and efficient vigilance by the authorities.
- Detecting abnormal behaviors and managing real-time emergencies in such a challenging natural environment was crucial.
- The lack of access to electrical networks for the Galgus Wi-Fi access points in some locations chapel presented a challenge.

IoT with Mobile Backhaul

Solution



Video Surveillance with Mobile Backhaul



Solar Charged IoT Deployment

Galgus Wi-Fi sensing solution.

Working with WBA Members



Fuzion products have powered several member's Wi-Fi and video devices.

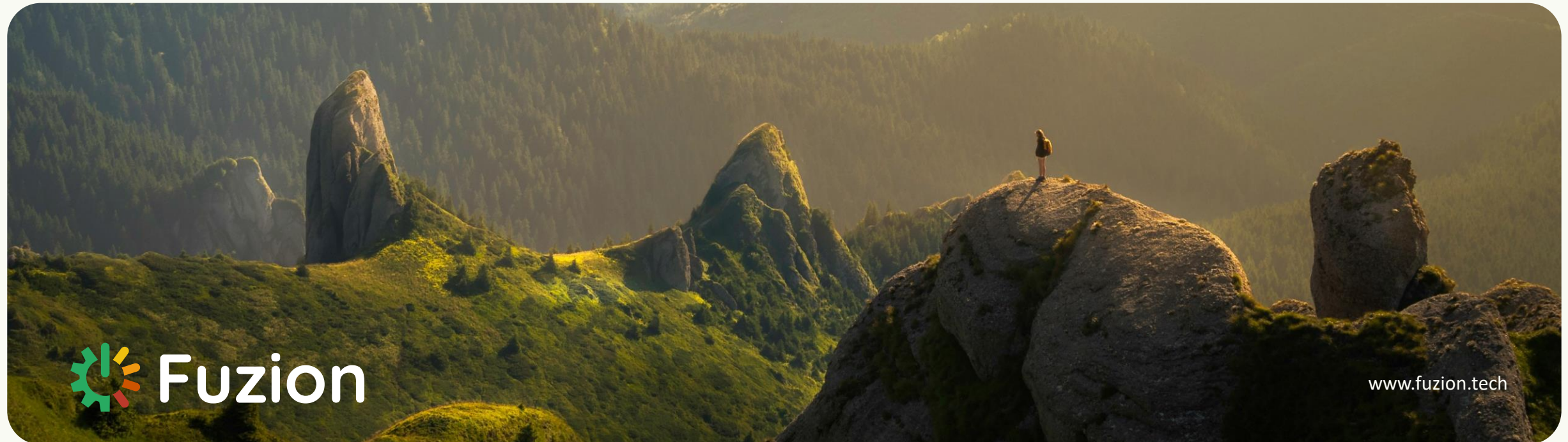
We look forward to working with more members in the future.



Power Your Network

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Founder & CEO

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 Fuzion

www.fuzion.tech



Giovanni Guerri

CEO, Guglielmo

Wi-Fi Usage Analysis in Connected Communities



WiFi Usage Analysis in Connected Communities

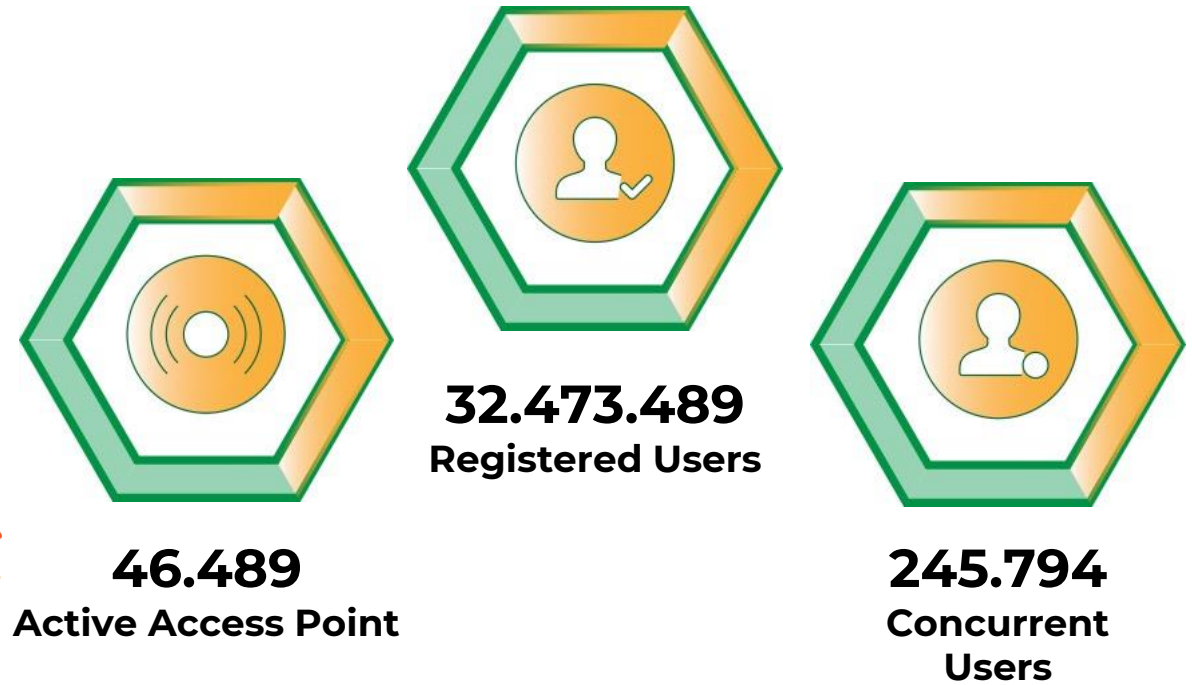
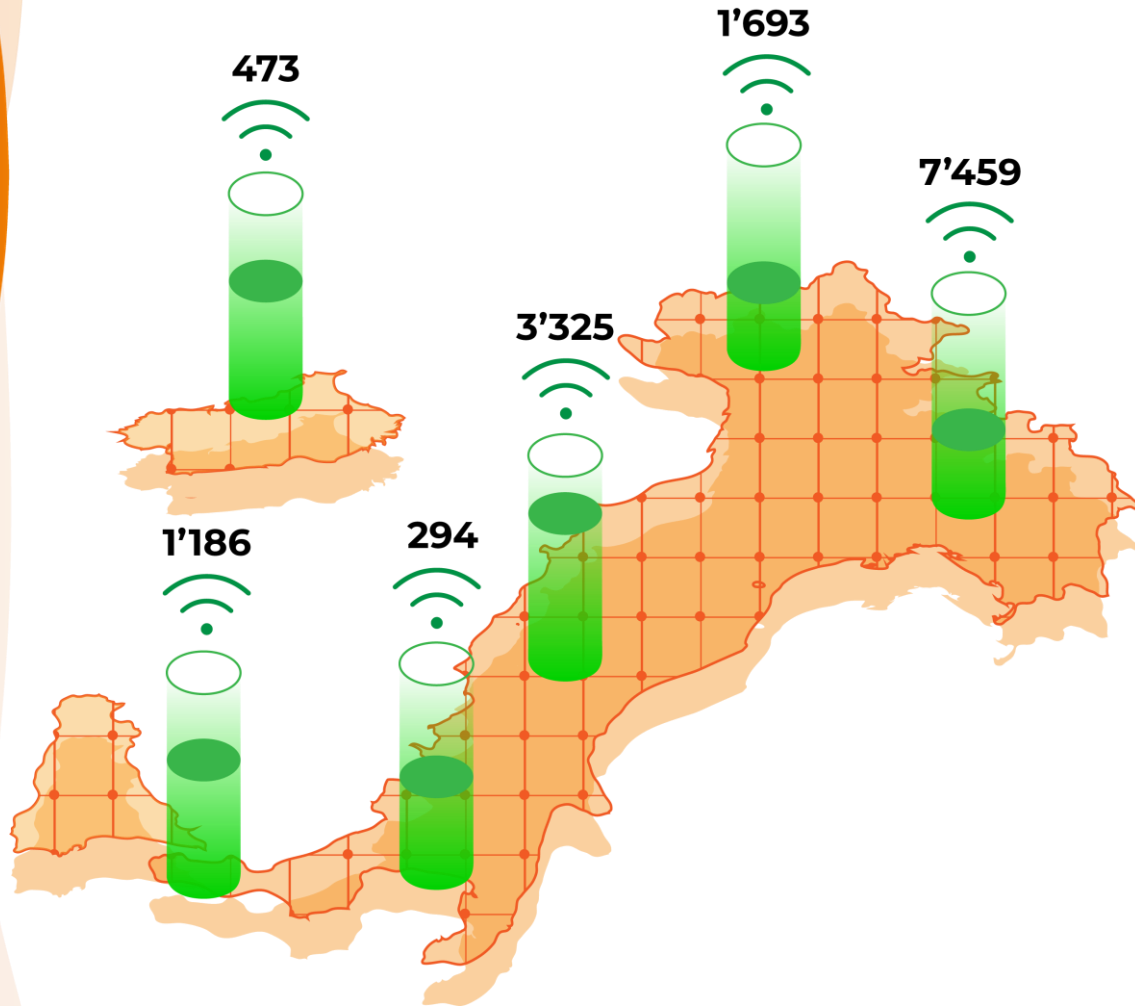
Giovanni Guerri

Guglielmo | Chief Executive Officer

Paris, Network X – October 10th 2024

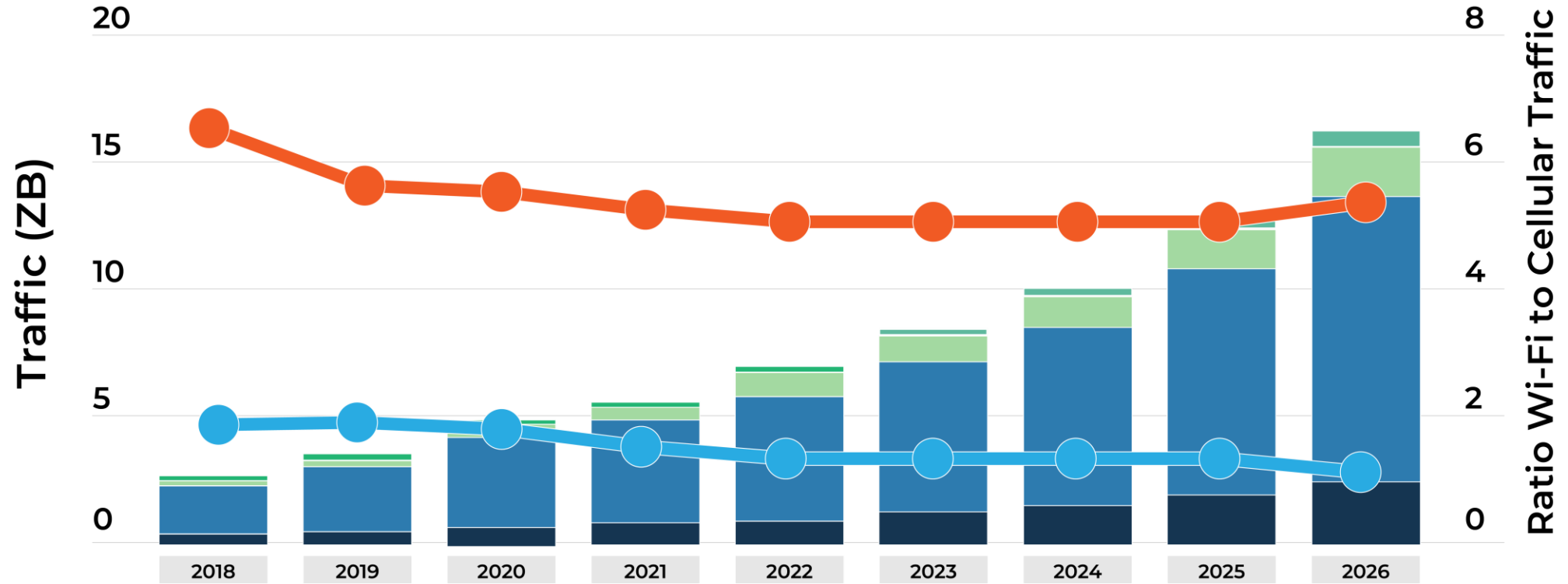


Footprint in Italy



**Approx 20.000 Access Point
belongs to WiFi Communities
such as Municipality,
Libraries, Public Offices etc.**

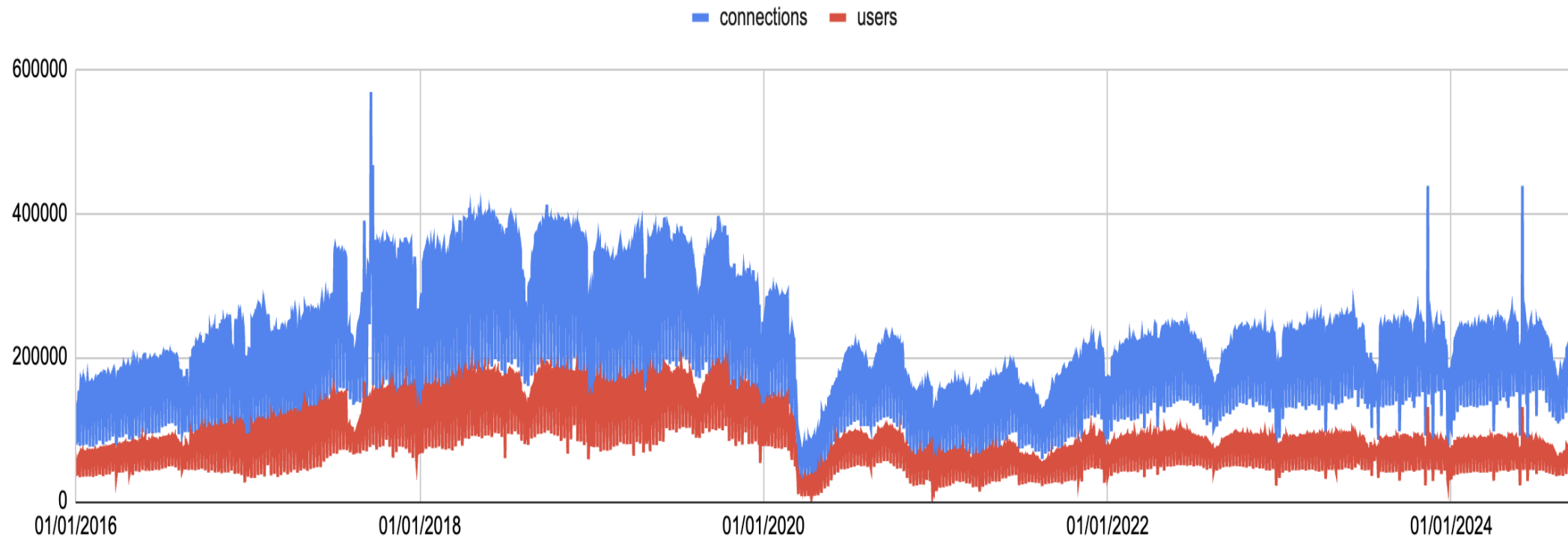
Golden Age of the WiFi



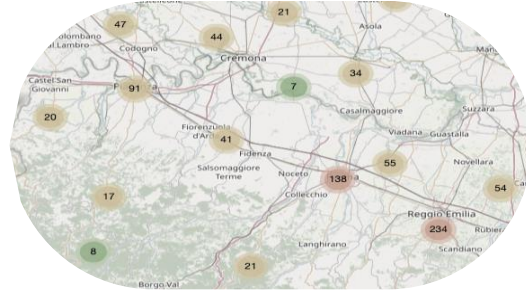
- Wi-Fi Handset
- Cellular Handset
- Cellular FWA
- Wi-Fi Other
- Cellular Other
- Wi-Fi/Cellular Ratio Total
- Wi-Fi/Cellular Handset Only

Source: Analysys Mason

Global Data



Connected Communities Use Cases



Utilities Company

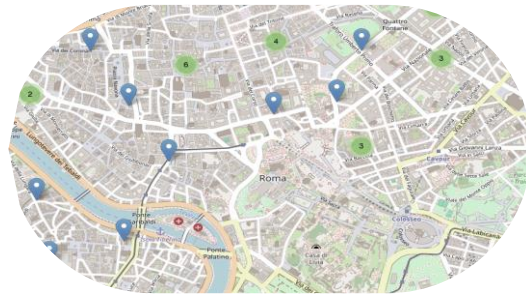
Public WiFi in Western Emilia Romagna
300 locations



**REGIONE
LIGURIA**

Local Government

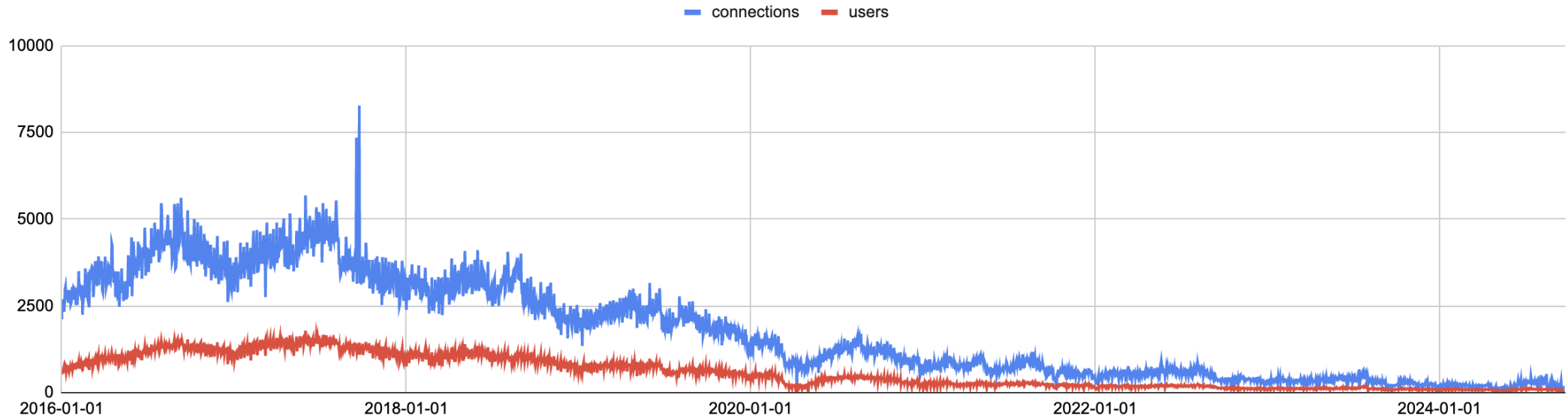
Public WiFi in Regione Liguria
1.500 locations



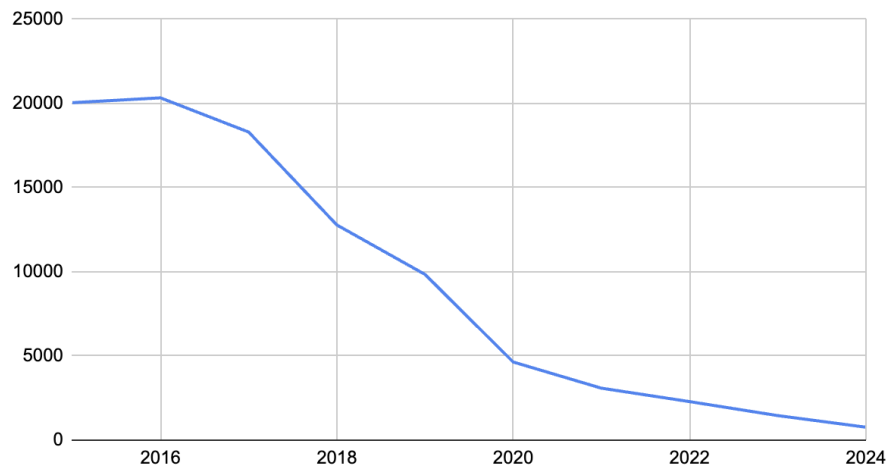
Central Government

Public WiFi in Post Offices
10.000 locations

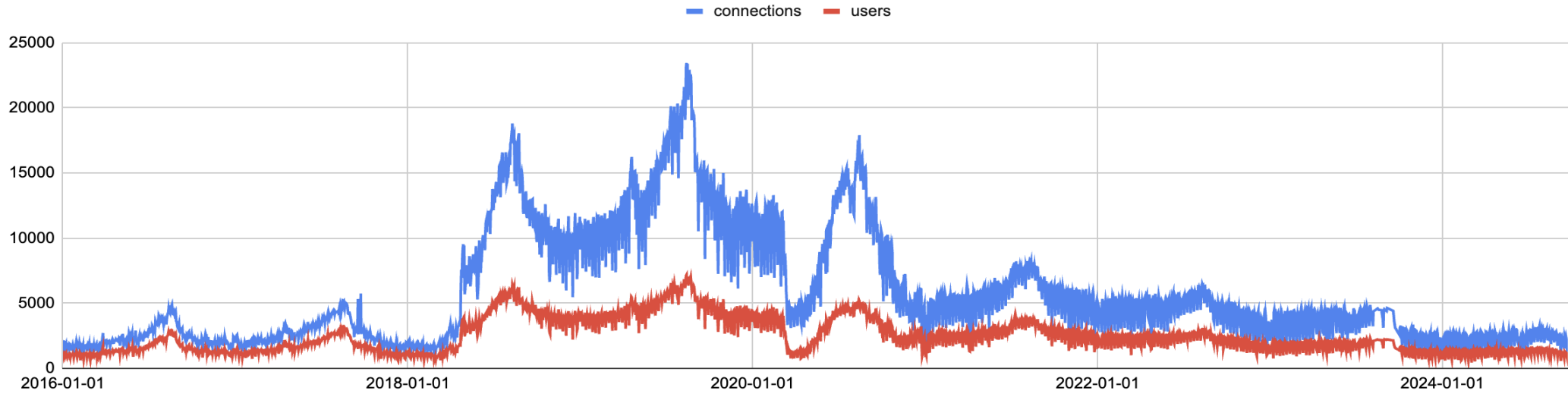
Western Emilia Romagna 300 locations



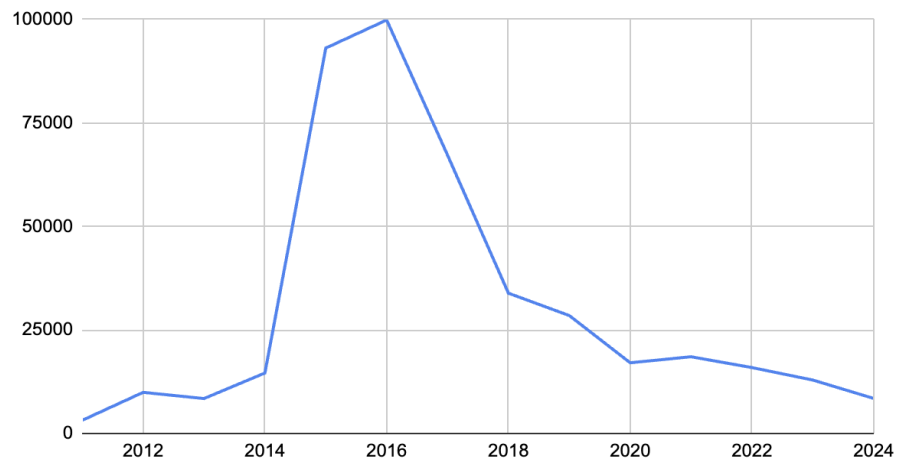
New Users



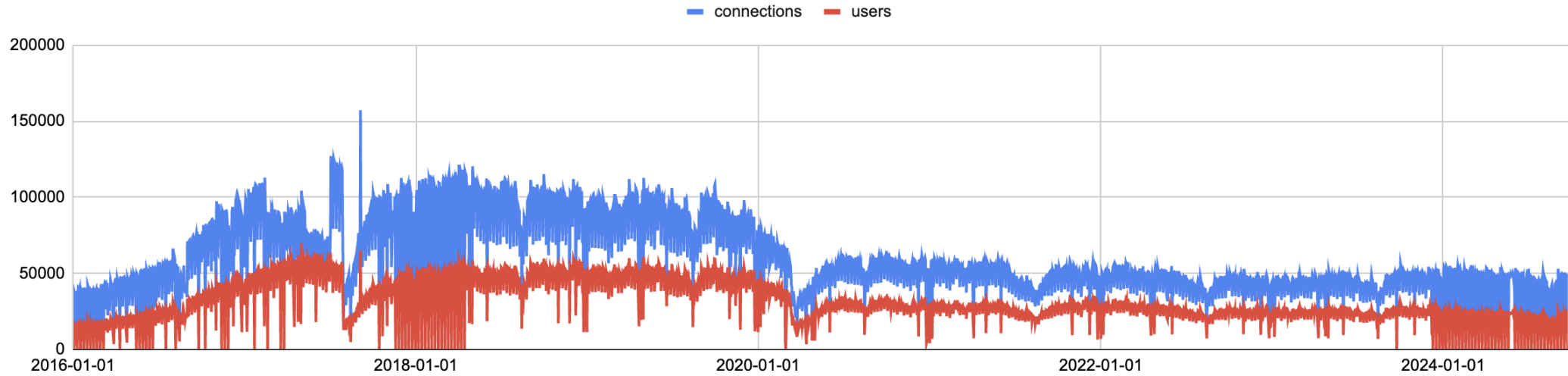
Liguria WiFi 1.500 locations



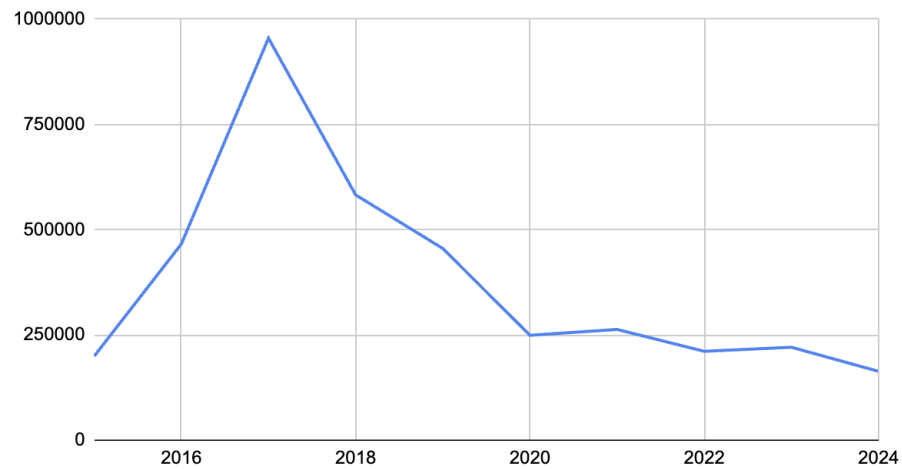
New Users



Poste Italiane 10.000 locations



New Users



Which is the main concern about using public WiFi?

Expected answers

100% poor user experience
0% other

Actual answers ~ 1.000 users

41% poor user experience
37% security
22% privacy

Source: Guglielmo 2024



Cloud Federation

OpenRoaming establishes a global federation among WiFi networks and IdPs to enable automatic roaming and user onboarding on WiFi.



Cyber Security

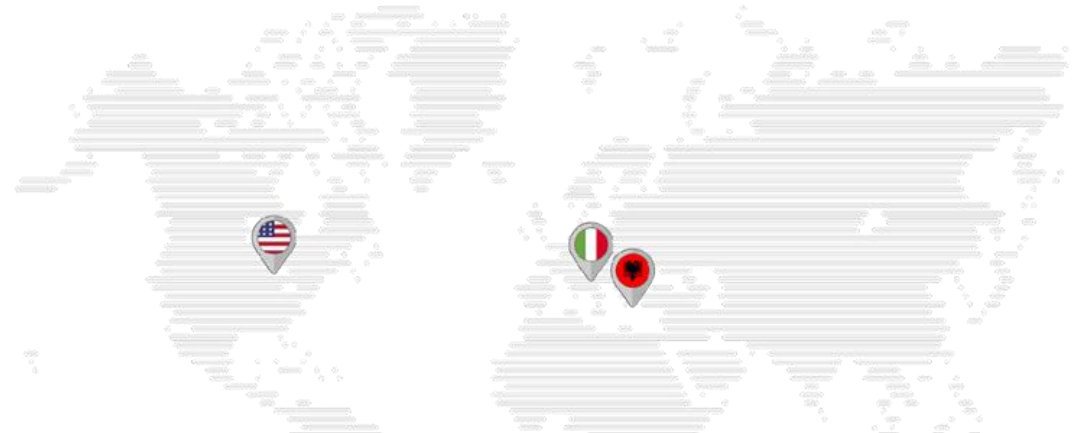
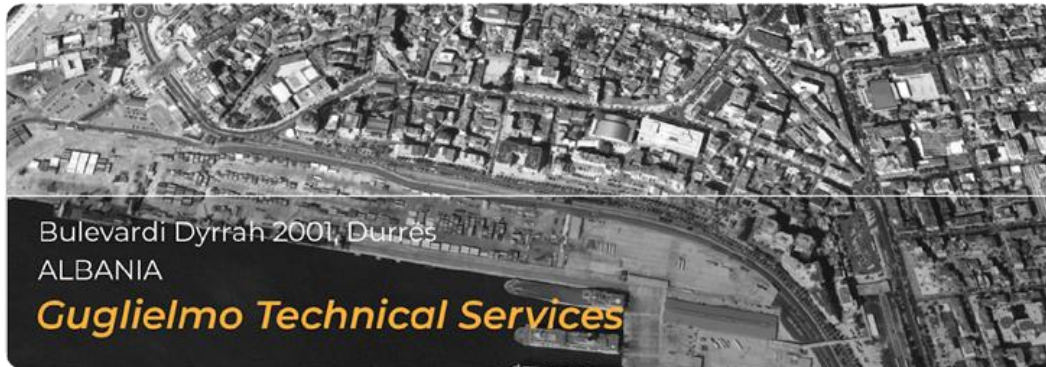
OpenRoaming enables secure and confidential Wi-Fi connections among all parties involved.



Network Automation

OpenRoaming defines a regulatory framework that enables frictionless access to WiFi networks.

About Guglielmo





Giovanni Guerri

Guglielmo | Chief Executive Officer
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Thank you!!!

Panel: Connecting Communities: Wi-Fi Empowerment for the Under-Served



Giovanni Guerri
CEO, Guglielmo.



Mittal Parekh

Senior Director, Product, Technical
and Influencer Marketing,
RUCKUS Networks.



David Wilkins

Head of Digital Place
Westminster City Council



Sean Sealey

CEO, Fuzion Tech.



Tiago Rodrigues

President & CEO, Wireless Broadband Alliance

Closing Remarks

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Disruptive Analysis

Don't Assume

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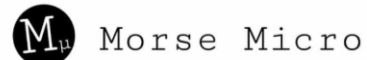
















 **WAA** 世界无线局域网应用发展联盟
WLAN Application Alliance

2025 Events Overview



Q1 2025

Q2 2025

Q4 2025



Wireless Global Congress – APAC

BANGKOK, THAILAND
WESTIN SUKHUMVIT HOTEL

21 Jan - Open Congress

22 – 23 Jan - Working Sessions
(Strictly Members Only)



Wireless Global Congress – Americas

DALLAS, USA
WESTIN IRVING CONVENTION CENTER

19 - 20 May - Working Sessions
(Strictly Members Only)

21 - 22 May – Open Congress



Wireless Global Congress – EMEA

PARIS, FRANCE
PARIS EXPO PORTE DE VERSAILLES

13 - 14 Oct - Working Sessions
(Strictly Members Only)

15 - 16 Oct - Open Congress

THANK YOU FOR JOINING US IN PARIS

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