



Together with our members, we make connectivity work for all

- Engineering the future of connectivity
- Enhancing your profile across the ecosystem
- Advancing policy and regulatory priorities
- Supporting the global ecosystem
- Delivering industry services, intelligence and training

Learn about how GSMA Membership could benefit you and your business at gsma.com/membership

Find out more





MVNO Summit

Discover the latest insights and strategies from across the MVNO ecosystem as we explore the innovative business models and strategic partnerships driving commercial sustainability.

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Danielle Rios Royston
Acting CEO
Totogi



Riki Efraim-Lederman
General Manager
Amdocs ConnectX



Carlos Valero Alcantara
CTO
Finetwork



Justin Reilly
CEO
Wavelo

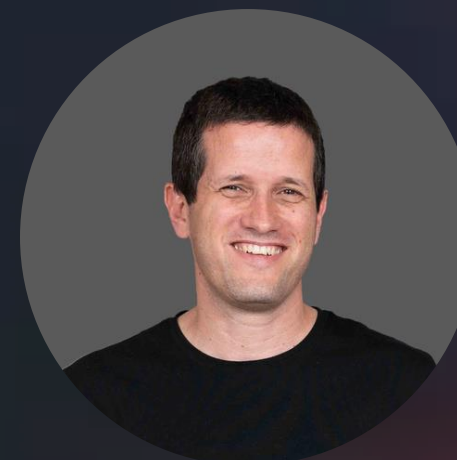


Rob Bennet
SVP, Retail Wireless Technology,
DISH

Our speakers



David Clyde
Group Brand Director
Lebara



Noam Lando
Co-founder & CEO
Webbing



Michelle Bugner
Head of Wholesale
Giesecke+Devrient



Sandeep Raithatha
Head of Strategy, Innovation & 5G IoT
Virgin Media O2 Business

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DR



TelcoDR

CLOUD CITY

WELCOME TO
CLOUD CITY
by TelcoDR



Google Cloud, AWS and Azure want to 'friend' telcos, but not every telco is ready to click 'accept'

The public cloud has failed to crack telecom

Telcos and the public cloud: drivers and challenges

Telcos have no easy escape from public cloud lock-in

Does it make sense to let dragons (AWS, Google Cloud) into the castle?

Telco cloudification poses a huge systemic risk

Marek's Take: Can mobile operators really trust the cloud?

Deutsche Telekom still favors telco DIY over public clouds

DT, Three UK among service providers resisting public cloud adoption



EASY
PEASY
LEMON
SQUEEZY



**better
tech**

**better
tech** **+** **way
cheaper**

**better
tech + way
cheaper = no
brainer**

GENERATIVE AI



BSS Magic

Totogi reinvents BSS

Create Case

First Name:

Last Name:

Phone:

Email:

Find Caller

Account ID:

Account Name:

Site ID:

Site Name:

Address:

City:

Postal Code:

Contract ID:

Access ID:

Part Serial Number/Service ID:

Part Number/Revision:

Model Number:

Site Parts

Previous Case

Next Case

FTS

Stop Call Timer

Attributes

Details

SLM

Case Title:

Case ID:

Type 1:

Incident

Type 2:

Not Applicable

Type 3:

Not Applicable

Change Type

Priority:

Medium

Severity:

Medium

Status:

Solving

Parent-Child:

None

Parent-Case ID:

Notes:

Save and Continue

Save

Cancel

THIS IS A REAL BSS. GUESS WHO?

Totogi

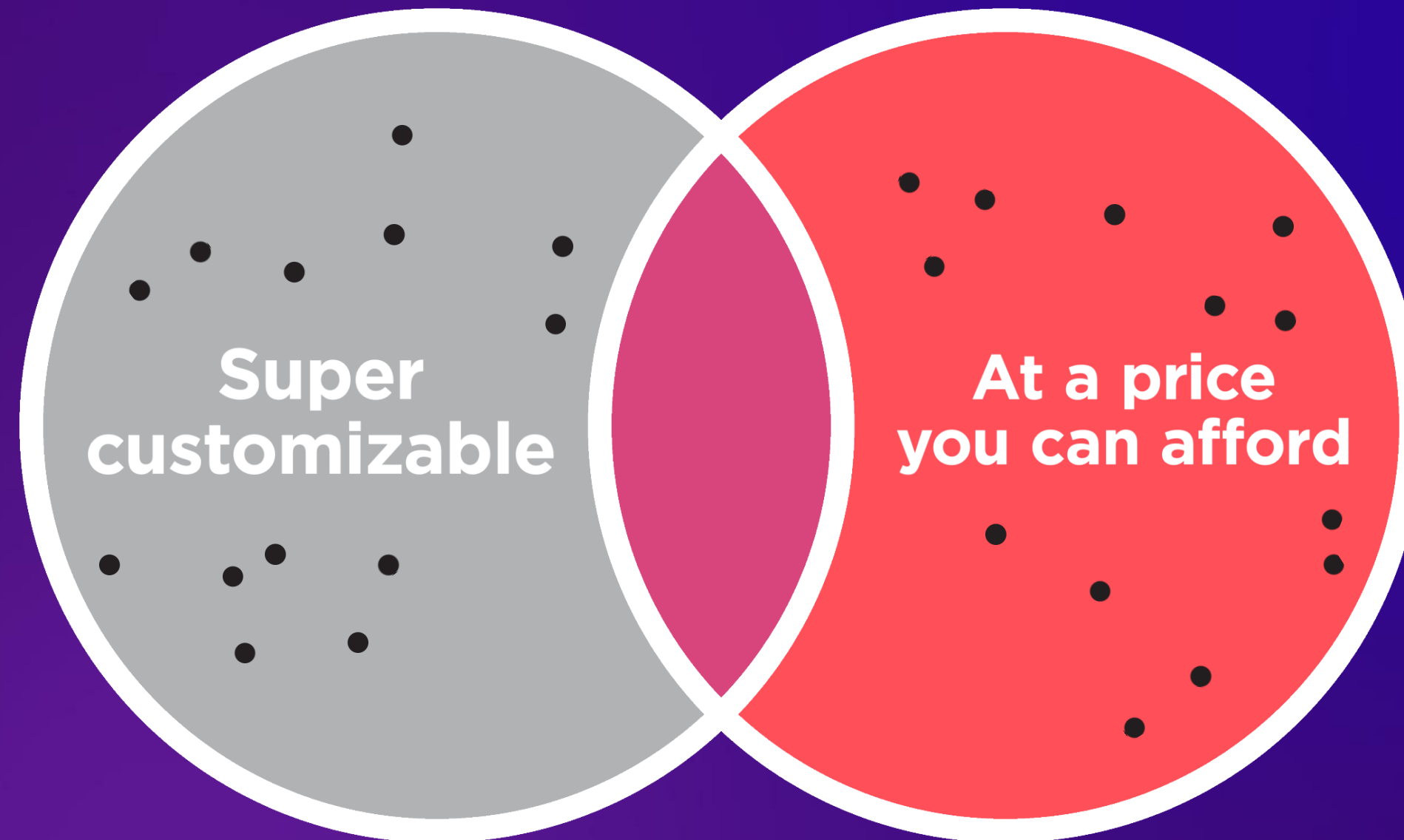
100%

**consulting-heavy
business model**

**SLOW
and
EXPENSIVE**

**Sprinkling AI on this
DOESN'T FIX IT**













BSS Magic

Totogi reinvents BSS

**better
tech + way
cheaper = no
brainer**

**Speak naturally with an
AI-generated avatar.**




```

Code
    TotogiCustomerAPI.create_line(line)
    return CustomerSchema().dump(customer)

@leangle.describe.tags(["Customer"])
@leangle.describe.response(200, description='Get all customers', schema='CustomerSchema')
@customer_routes.route('/', methods=['GET'], cors=True)
def get_all_customers():
    # get multiple customers from Totogi
    # calls: GET https://bss.totogi.com/customerManagement/v4/customer
    customers = TotogiCustomerAPI.get_all_customers()
    return customers

@leangle.describe.tags(["Customer"])
@leangle.describe.response(200, description='Get Customer', schema='CustomerSchema')
@customer_routes.route('/{id}', methods=['GET'], cors=True)
def get_customer(id):
    # get an existing customer from Totogi
    # calls: GET https://bss.totogi.com/customerManagement/v4/customer/:id
    customer = TotogiCustomerAPI.get_customer(id)
    # get all the active lines for the customer
    lines = TotogiCustomerAPI.get_active_lines(customer.id)
    # get all the active tickets for the customer
    zendesk_api = TotogiIntegrations.ZendeskAPI()
    active_tickets = zendesk_api.get_active_tickets(customer.zendesk_id)
    # get all the payment methods for the customer
    payment_methods = TotogiCustomerAPI.get_payment_methods(customer.id)
    # get MrBeast loyalty details
    mrbeast_loyalty = TotogiCustomerAPI.get_mrbeast_loyalty(customer.email)
    # get all the active plans for the customer
    plans = TotogiPlansAPI.get_active_plans(customer.id)

    customer_details = {
        "customer_profile": customer.__dict__(),
        "lines": lines,
        "active_tickets": ZendeskTicketsSchema().dump(active_tickets, many=True),
        "payment_methods": payment_methods,
        "mrbeast loyalty": mrbeast_loyalty,
    }

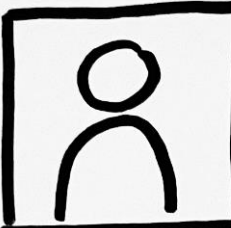
```

Automatically generate flawless BSS software.

Create your own
user interface.

CUSTOMER LIST > 7

☒ ☒ ☒ ☒



☐ ☐ EDIT
☒ PHONE
☒ EMAIL ID

BILLING ADDRESS

ACCOUNT NUMBER

LEAD SOURCE

CUSTOMER RATING

LATE PAYMENTS

LAST PAYMENT

CURRENT BILL
PAYMENT STATUS

8

PLAN DETAILS
ASSIGNED PLAN

MANAGE LINES +ADD LINES

| | |
|----------------------|--|
| <input type="text"/> | INACTIVE <input checked="" type="checkbox"/> |
| <input type="text"/> | INACTIVE <input checked="" type="checkbox"/> |
| <input type="text"/> | INACTIVE <input checked="" type="checkbox"/> |

OTHER ACCOUNT INFO

ACTIVATION DATE

NEXT BILL GEN DATE

BILL GENERATED DATE

IS DATA THROTTLED ☒

IS DATA PAUSED ☒

IS CREDIT CARD HOLD ACTIVE ☐

IS PORT IN ☐

INTERNATIONAL CALL ENABLED ☒

INTERNATIONAL L RIM ENABLED ☐

CALLER ID BLOCK ☒

PERSONAL REFERRAL CODE

HISTORY >

DEVICE DETAILS

DEVICE

IMEI

ICCID

APP VERSION

OS VERSION

BEAST LOYALTY

ANNUAL SPEND ON MERCH

YOUTUBE HRS/DAY

SAVED CARDS + ADD CARD

☒ EXPIRATION DATE ☒ ☒
☒ UPDATE

☒ EXPIRATION DATE ☒ ☒
☒ UPDATE



**Change the application
whenever you want.**

**Integrate to anything and
migrate data, instantly.**

CRM

**OTHER BSS
SOLUTIONS**

**CUSTOMER
SUPPORT**

*ORDER
MANAGEMENT*

**BILLING
SYSTEMS**

ANALYTICS



BSS Magic

Totogi reinvents BSS

MR BEAST



MR BEAST

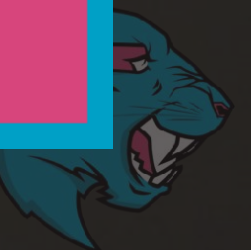


MR BEAST

Jimmy Donaldson is MrBeast, a philanthropist and YouTube sensation famed for his extravagant stunts and heartwarming charity work.

He creates videos with jaw-dropping challenges, lavish giveaways, and epic contests, setting a new benchmark for digital creators.

MrBeast is a pioneer of the YouTube era and has amassed a following of over 240 million subscribers.





BSS Magic

Totogi reinvents BSS

**Speak naturally with an
AI-generated avatar.**




```

Code
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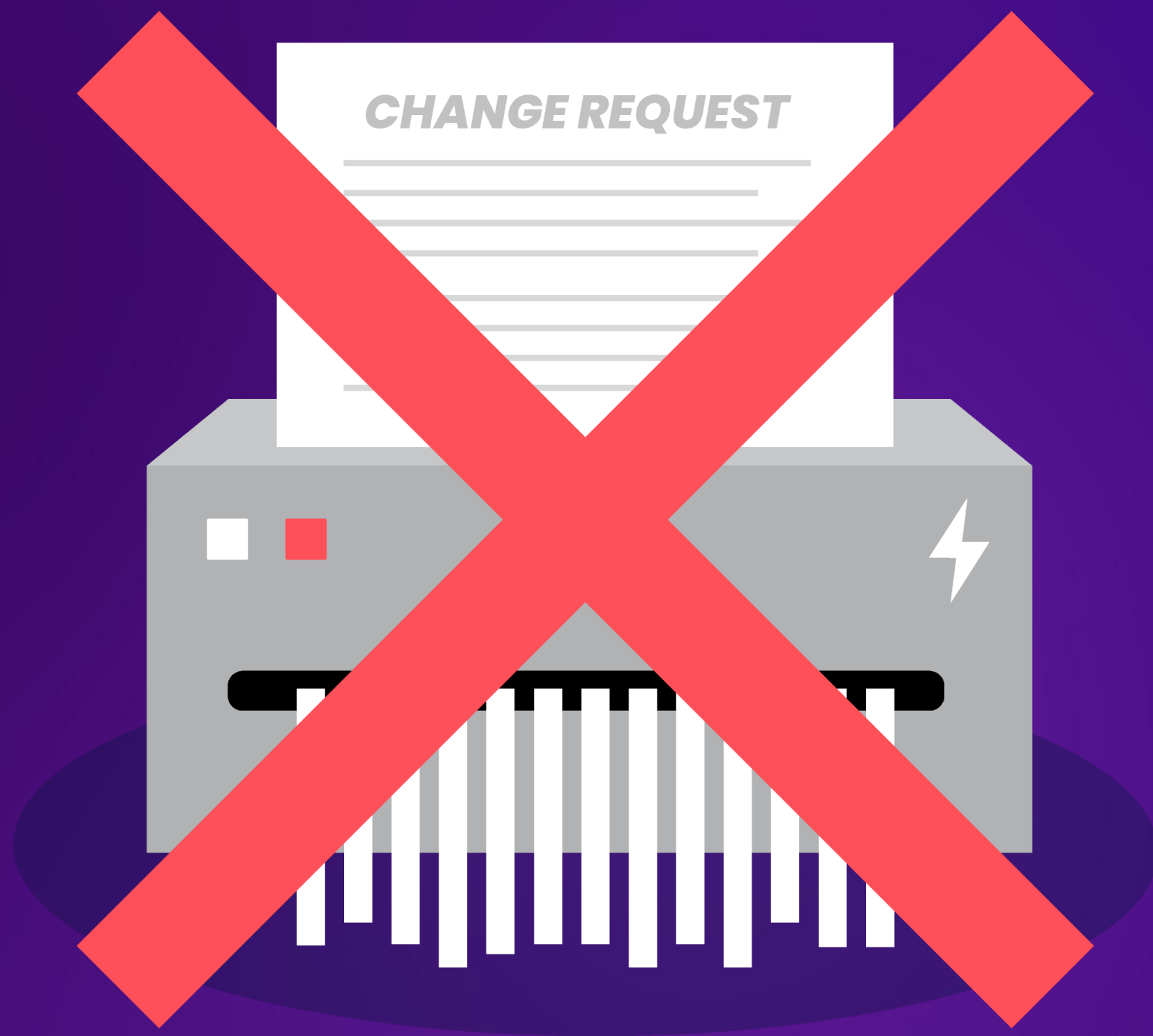
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CRM

**OTHER BSS
SOLUTIONS**

**CUSTOMER
SUPPORT**

*ORDER
MANAGEMENT*

**BILLING
SYSTEMS**

ANALYTICS

Totogi



sales@totogi.com



www.totogi.com



[@Totogi](https://twitter.com/Totogi)



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Finetwork

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INNOVATING WITH THE BIG LEAGUES

Riki Efraim-Lederman
Amdocs

Carlos Valero
Finetwork

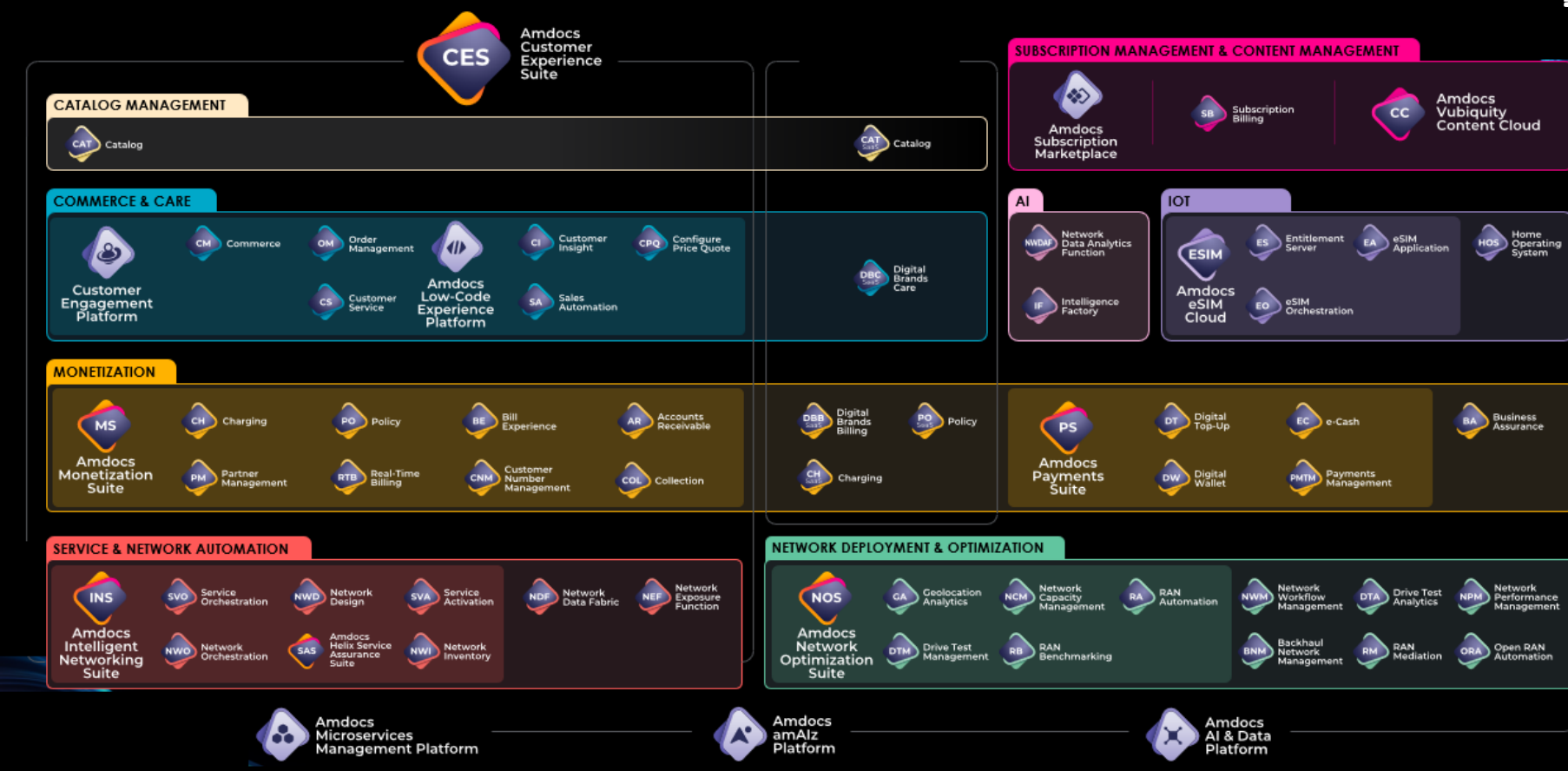


finetwork

a- amdocs make it amazing



With **+400** Clients



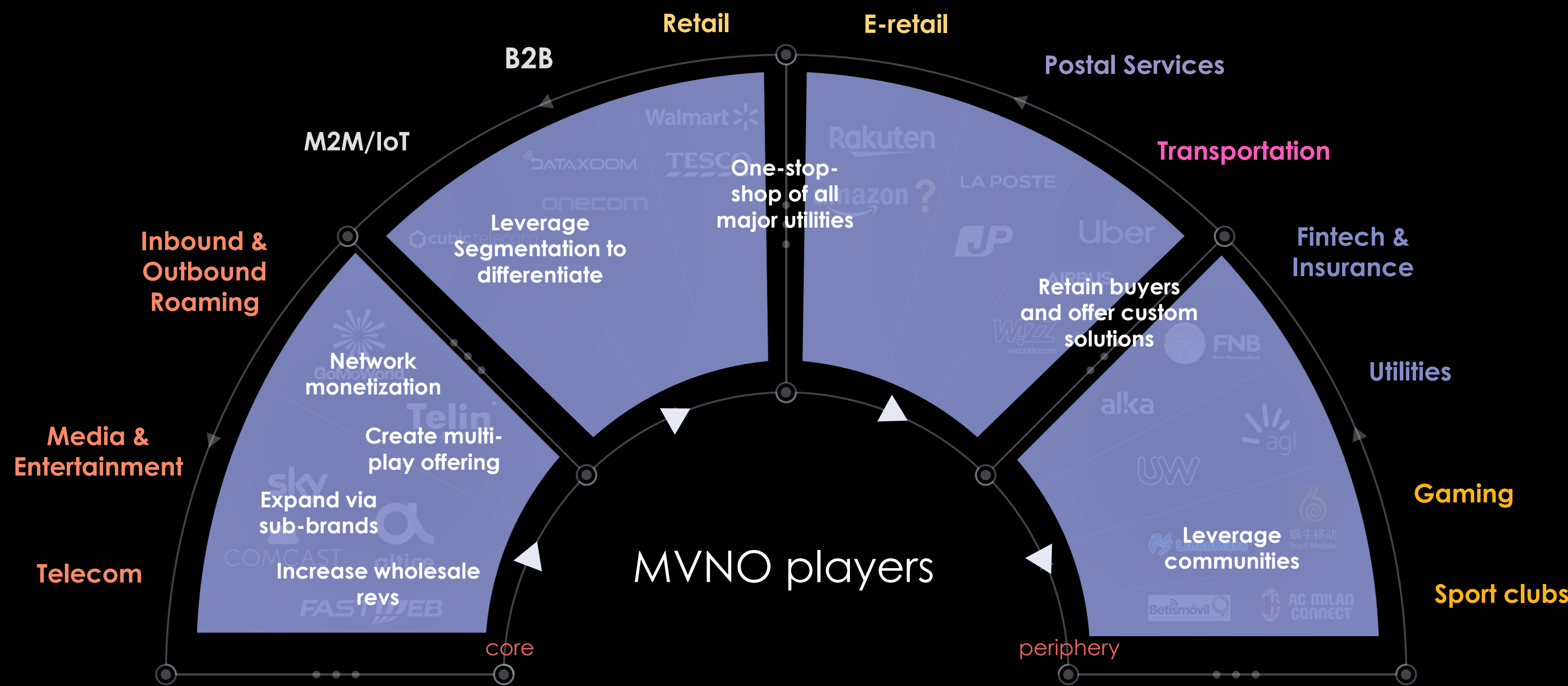
**CAN A BIG
LEAGUE**

**HANDLE THE UNIQUE NEEDS OF
MVNOs?**

MVNO Success Factors



Connectivity is becoming a play all industries are looking to connect to



FROM TRANSITION DIGITAL BRAND SUITE TO

GenAI native BSS SaaS

We are the invisible bridge, the digital handshake that connect any device and any brand.



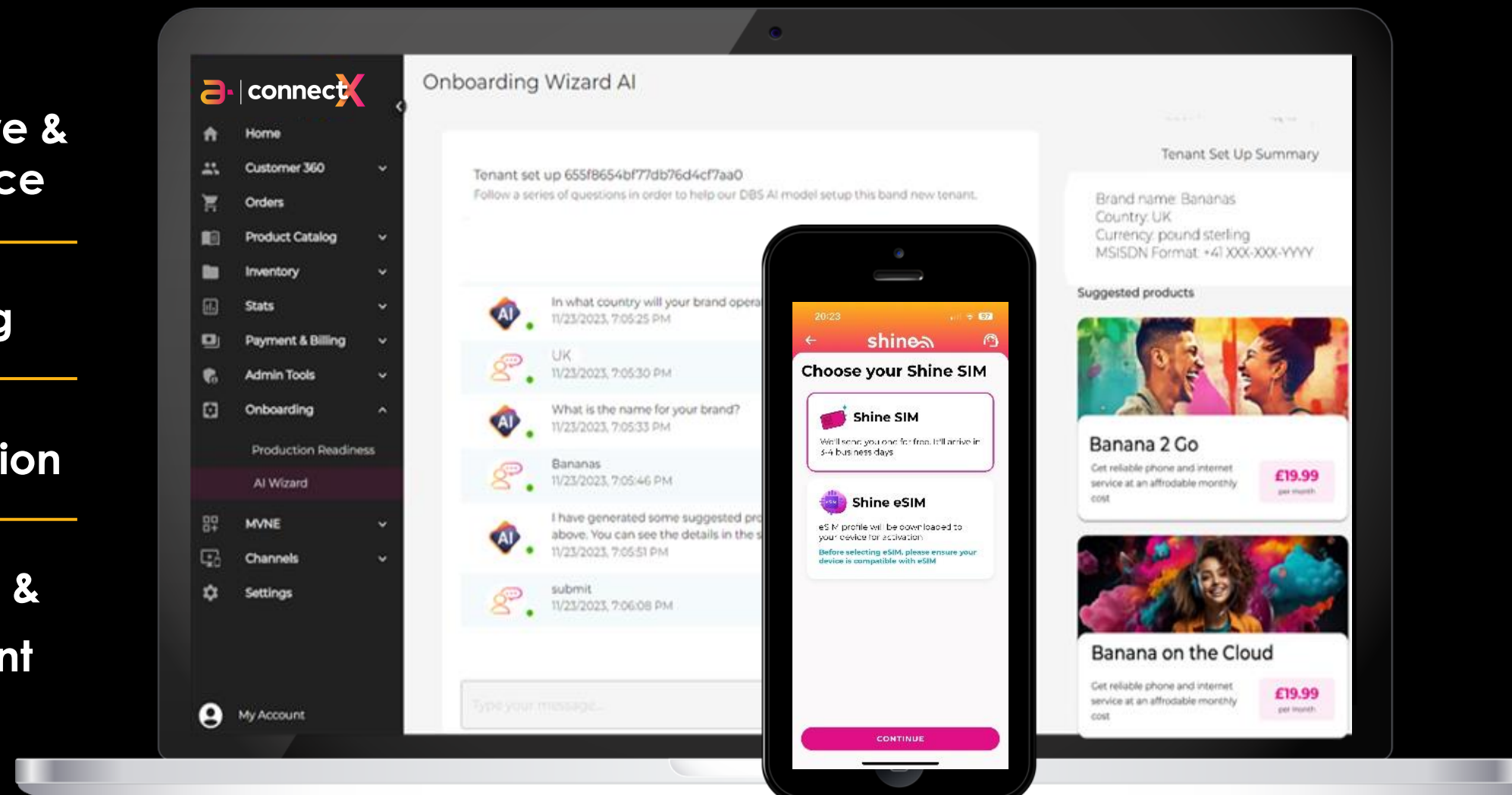
Powered By

Digital Care &
Commerce

Catalog

Monetization

Ordering &
Fulfilment



GenAI
Native

SaaS
PAYG

Seamless
Digital CX

Telco
Know How

7 customers



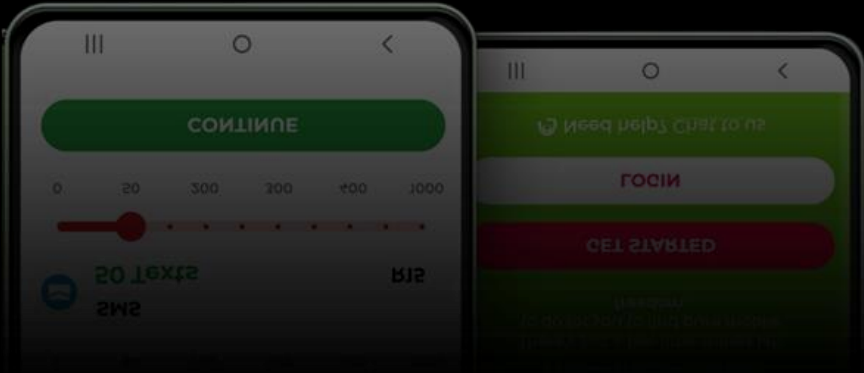
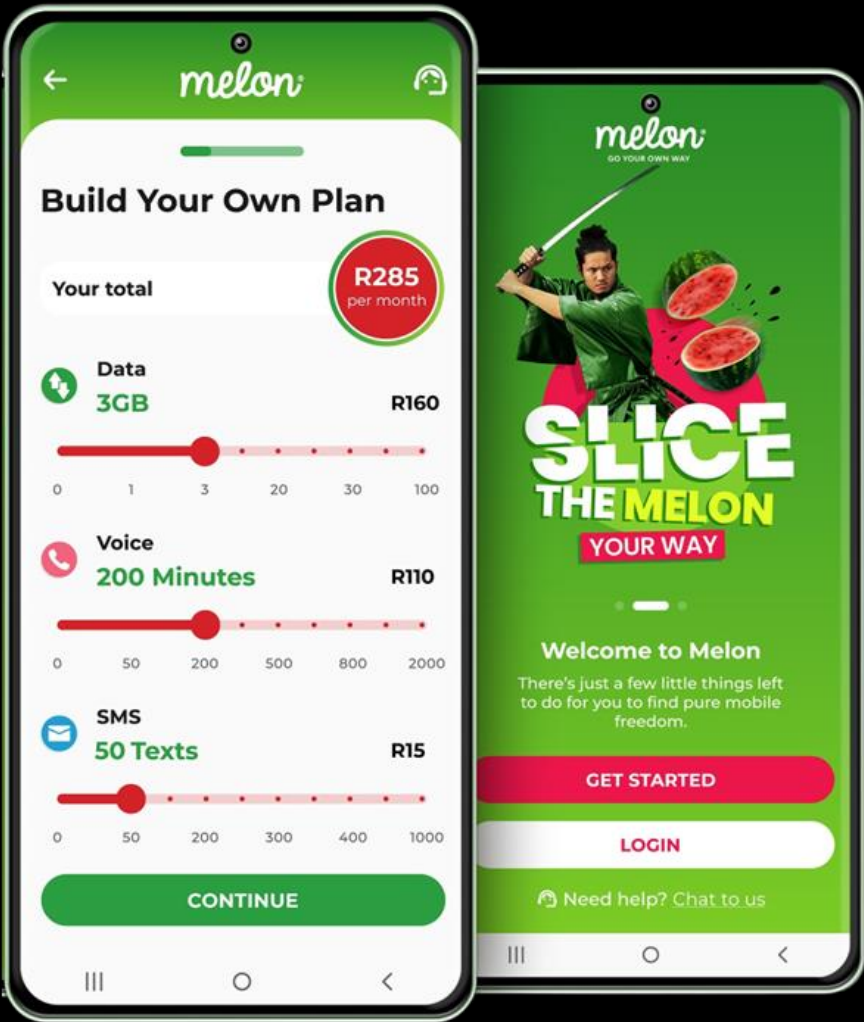
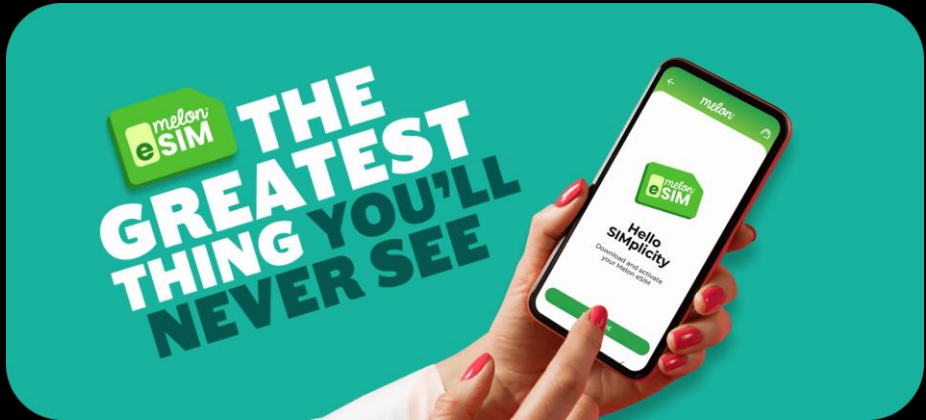
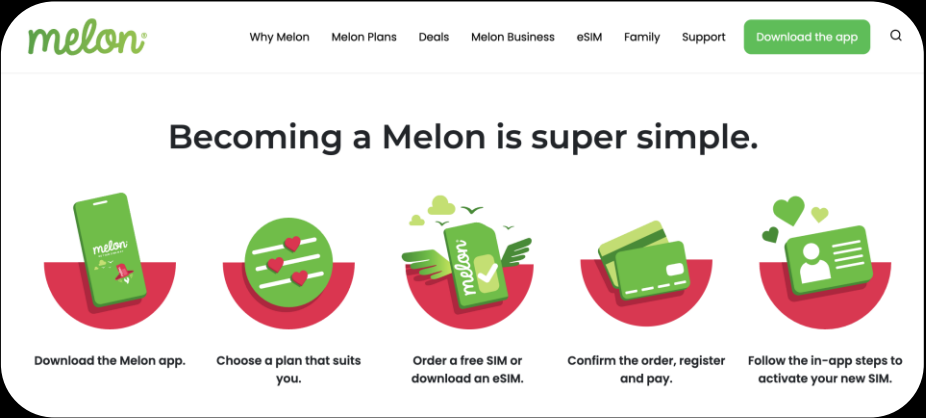
3 months
On-board, go live



Thanks to our design partner



Calvin Collett



WELCOME

finetwork

Carlos Valero



MVNO Summit

Wavelo

DISH

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The telecom stack of the future

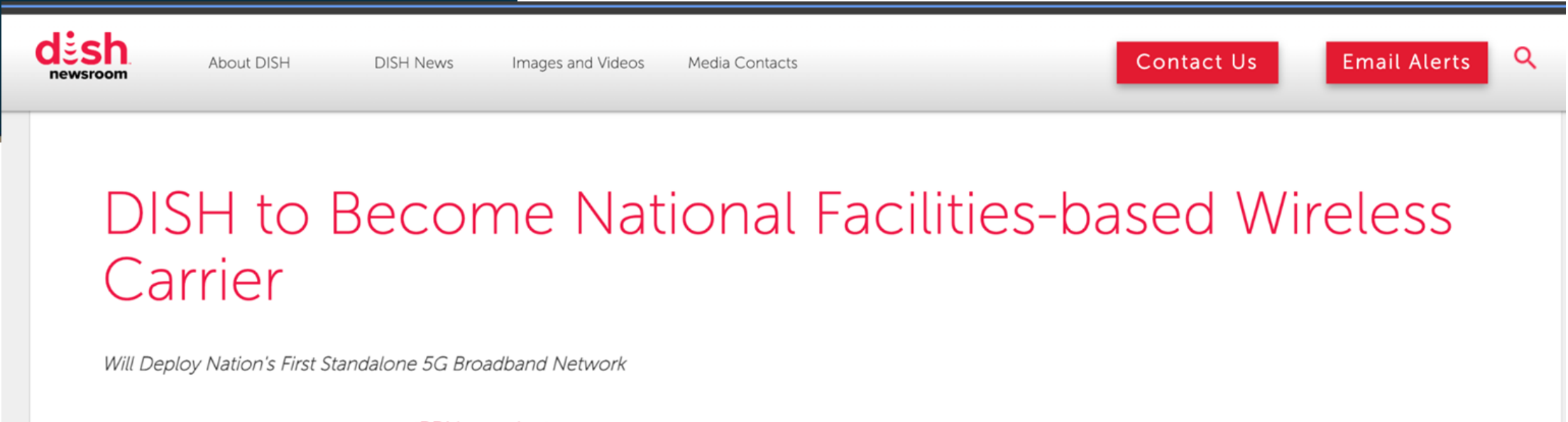
Justin Reilly, CEO, Wavelo

Rob Bennett, SVP, Retail Wireless Technology at DISH Wireless

MWC Barcelona, February 28, 2024



Looking back at 2020



IT Wireless Architecture Guiding Principles



Less == More

- Fewer “moving parts” improves functionality and Stability
- Less to change as we evolve the business
 - a. Faster time to market
 - b. Lower Cost



Enhance the Core

- Focus enhancement efforts in places where it will benefit the entire business
 - I.e. More Robust Account/Family model



YAGNI

- Start with the essentials for the business
- Day 1 functionality vs Day 365



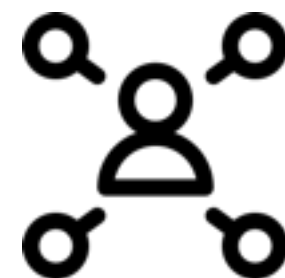
Contract Driven Design

- Well defined interfaces between system
- If we can encapsulate properly, we can refactor later



Multi Tenant Design

- Architecture and applications should be designed to support multiple brands



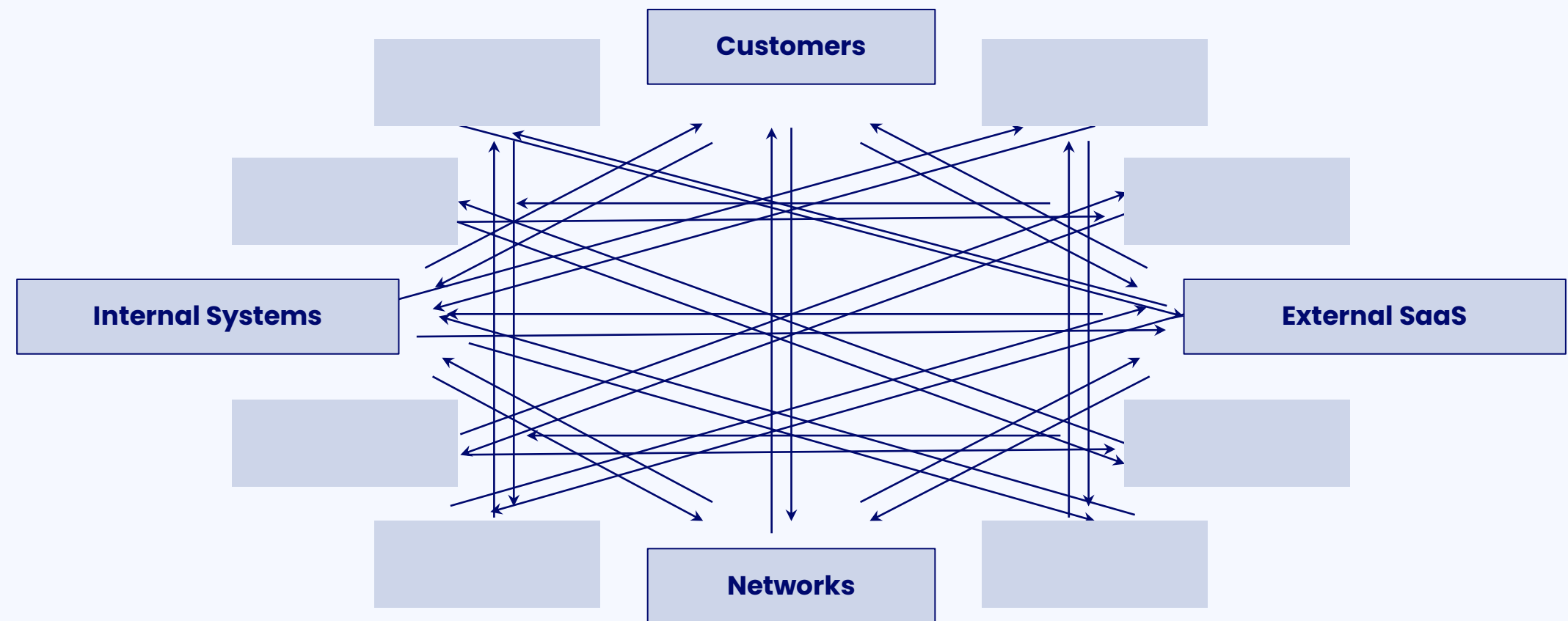
No Corner Cases

- Corner cases lead to poor experiences
- Can resolve from the experience or technology side
- Only gets harder to resolve as we move on

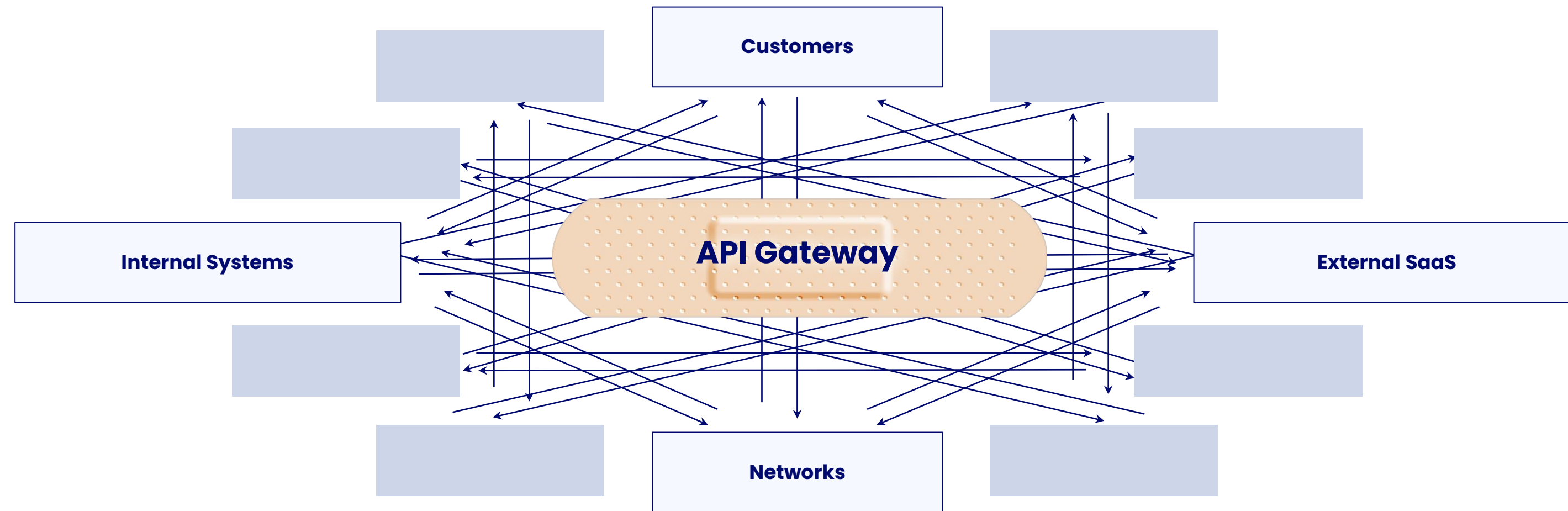
Typical Telco Platform

What we're solving

- Slow
- Unreliable
- Manual
- Inflexible



Digital Transformation





What unique challenges did you build for?

- **Customer experience** at a brand level is the same
- **Network experience** is fungible, dynamic optimization
- **Multi-network**
- **Prepaid and postpaid**
- **Flying the plane** while adding passengers

What's next?

- **Innovating** in our digital experience
- **Driving** increased speed to change
- **Building** on the foundation
- **Intelligent** base-driven optimization

Thank you.



MVNO Summit

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LEBARA

MWVC[™]
GSMA

Delivering a challenger brand experience

David Clyde,
Group Brand Director,
Lebara Mobile



What do we mean by ‘challenger brand’?

“...has business ambitions bigger than its conventional resources, and is prepared to do something bold, usually against the existing conventions or codes of the category, to break through.”

(Adam Morgan, Eating The Big Fish)

<https://thechallengerproject.com>

What defines a 'challenger brand'?

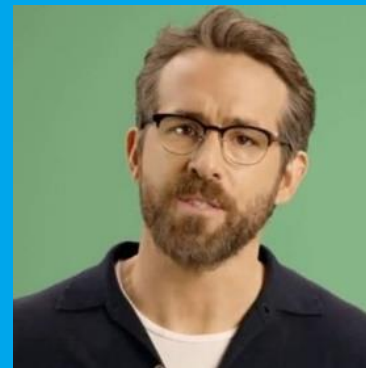
1. State of the market



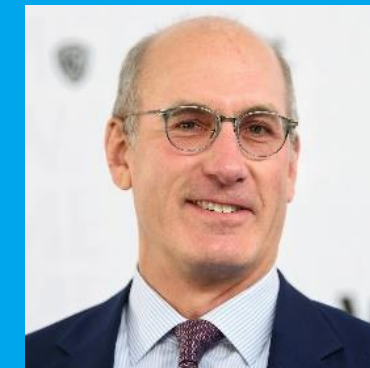
Vs.



2. State of mind



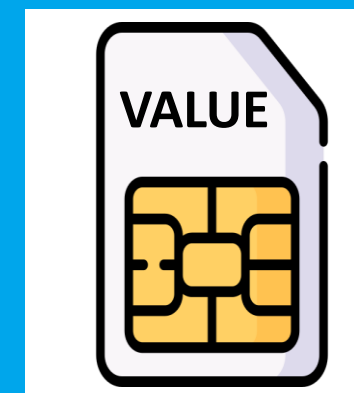
Vs.



3. Growth



Vs.



+17%

+3-8%

Why focus on challenger brands?

‘Difference is the #1 brand factor impacting on share outperformance’

(Said Business School, Kantar BrandZ)

‘...what [investors] like more is an unbeatable proposition – they actually don’t care much about the tech, and nor do consumers. They want to know it works and that it affords true brand differentiation.’

(James Grey, Greystone Strategy)

1. Take a stand

‘Lebara champions a smarter way to connect’

- a reliable network
- and exceptional service
- at an affordable price



2. Know your enemy

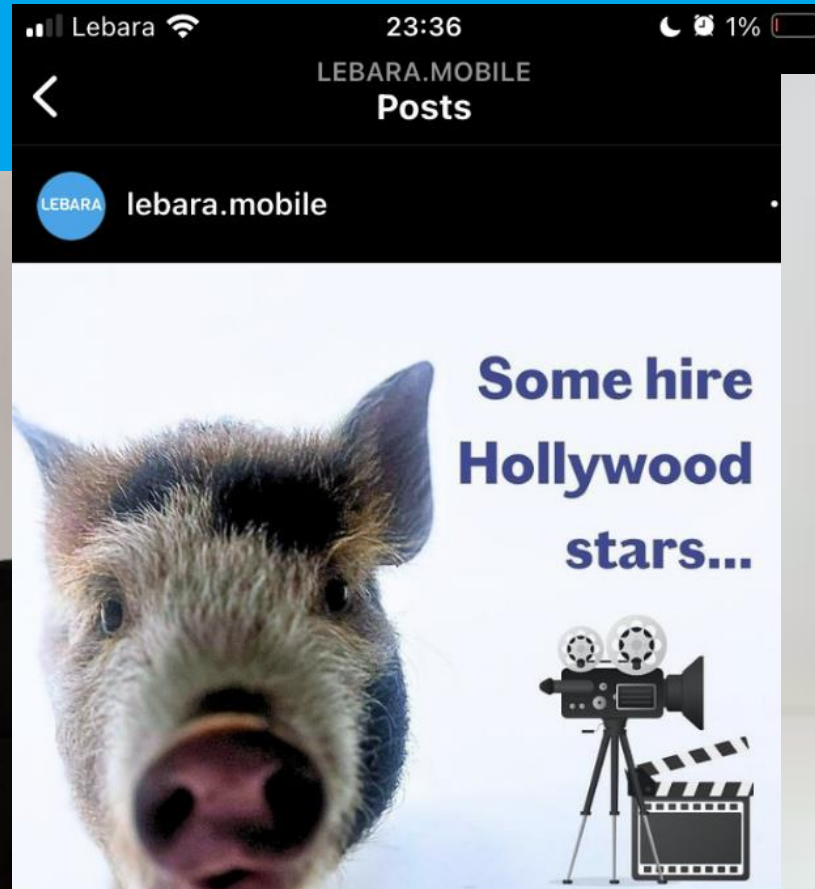
‘Getting ripped off sucks. We wanted to do the exact opposite of the competition. We wanted to do ‘less’ but ‘better’

*(Jeff Raider & Andy Katz-Mayfield,
Founders of Harry's)*

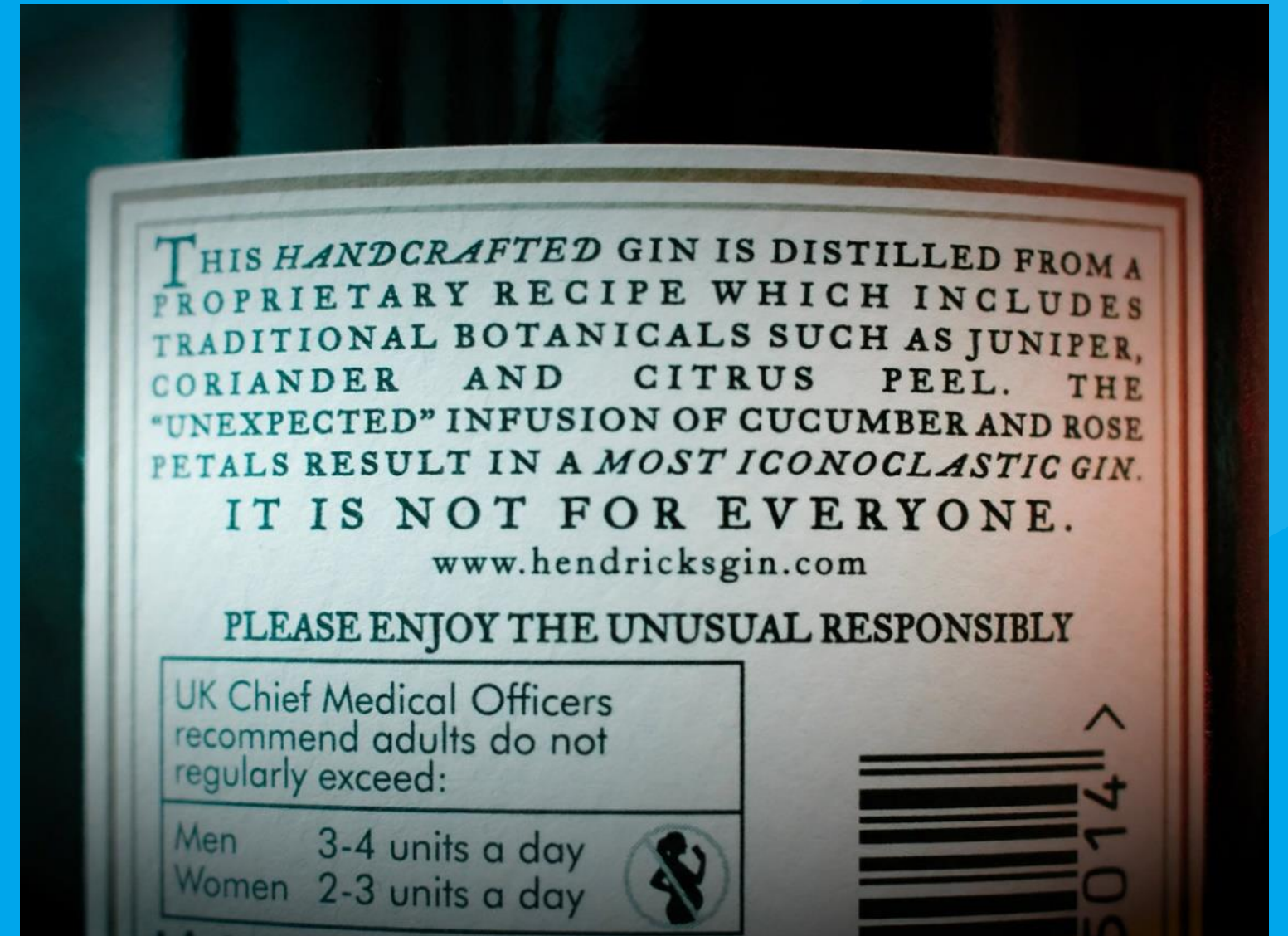




3. Explain yourself



4. Find your tribe



5. Don't be afraid of funny

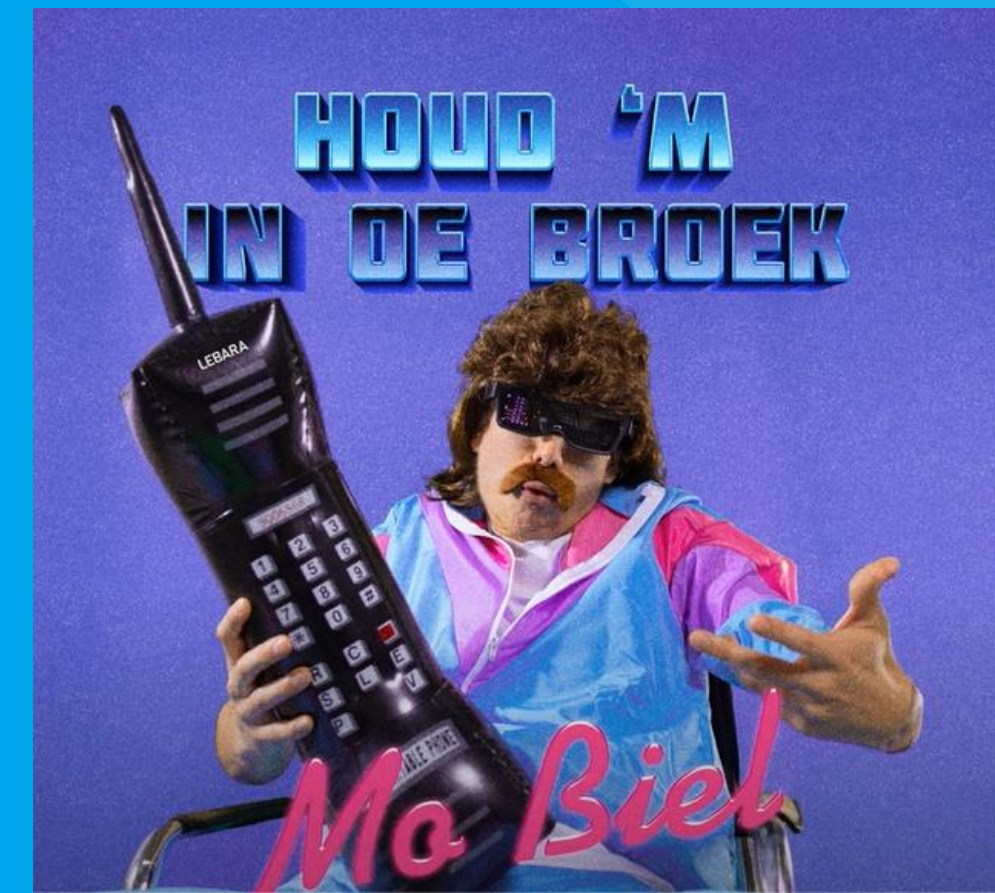
91% prefer brands to be funny

48% don't believe they have a relationship with a brand unless it makes them smile or laugh

89% of business leaders see the opportunity to use humour to enhance the customer experience

95% of business leaders fear using humour in customer interactions

Source: Oracle Happiness Report 2022



il®
TY®
MES
NER
erdrug,
macies,
...COM
hair & nails.
ondon, NW2 7HF
...ADPWWTCF.2



Zero stars.



Would not recommend.
- Satan



Bible App

from
YouVersion

In summary

- MVNOs are in the perfect position to become true challenger brands
- The customer experience is full of opportunities to be more ‘challenger’
- Encourage ALL your teams to look outside the category for inspiration
- If you’re launching an MVNO, and you’d like to benefit from our challenger brand experience, please get in touch.
- Thanks for listening

LEBARA

**BRAND LICENCE
PARTNER PROGRAM**



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WEBBING[®]

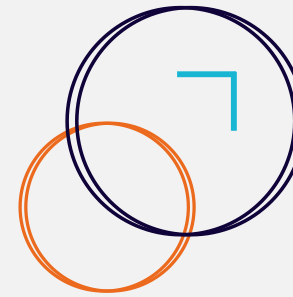
UNLOCKING THE VALUE OF
MISSION CRITICAL IOT



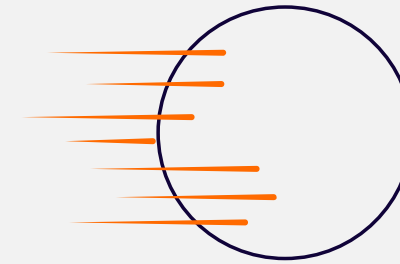
Mission Critical IoT Connectivity Requirements



Coverage



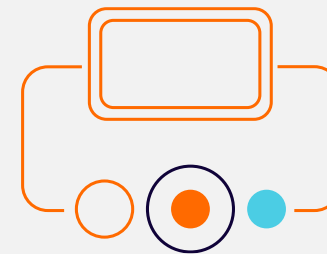
Simple and Scalable



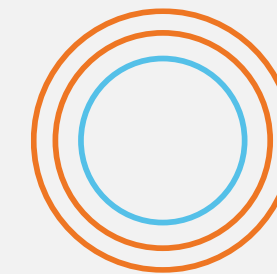
Low Latency



Network Redundancy &
Automatic Failover



Robust Management



Future Proof



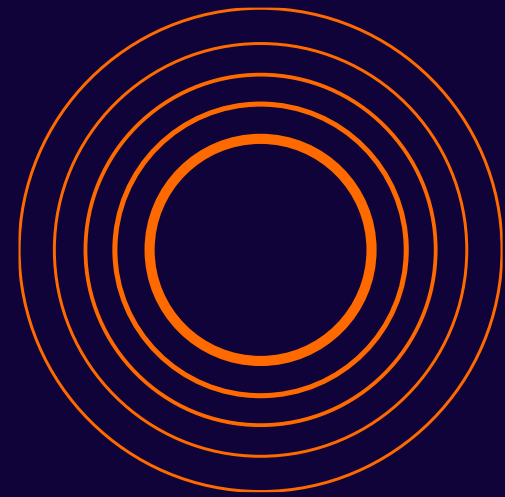
WEBBING

Redefining global data connectivity

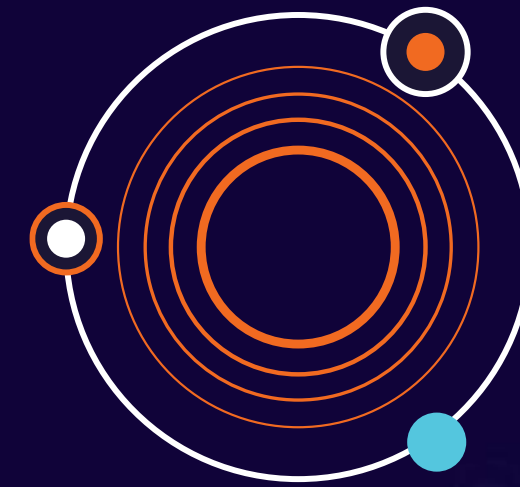
Founded
2010



Webbing Portfolio



Webbing**CNCT**



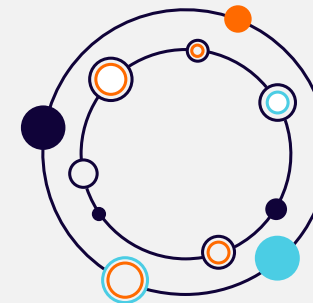
Webbing**CTRL**



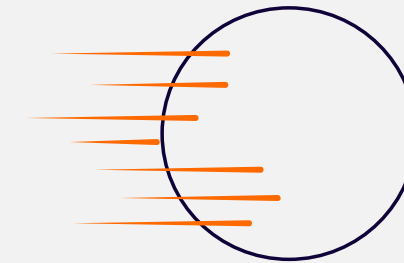
Mission Critical **Connectivity Stack**



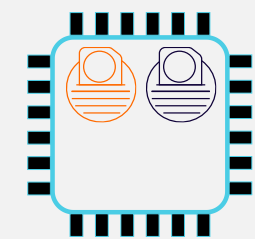
Global connectivity
utilizing single SKU



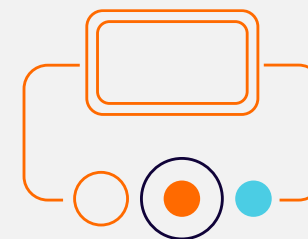
Enhanced global
coverage with multi-
network support in 190+
countries



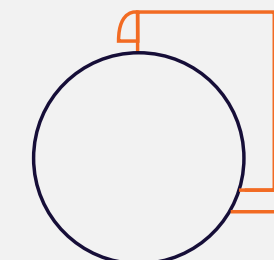
High Performance and
Low Latency



eSIM RSP Support
(SGP02 / SGP22 / SGP32).
Switch cellular providers
remotely



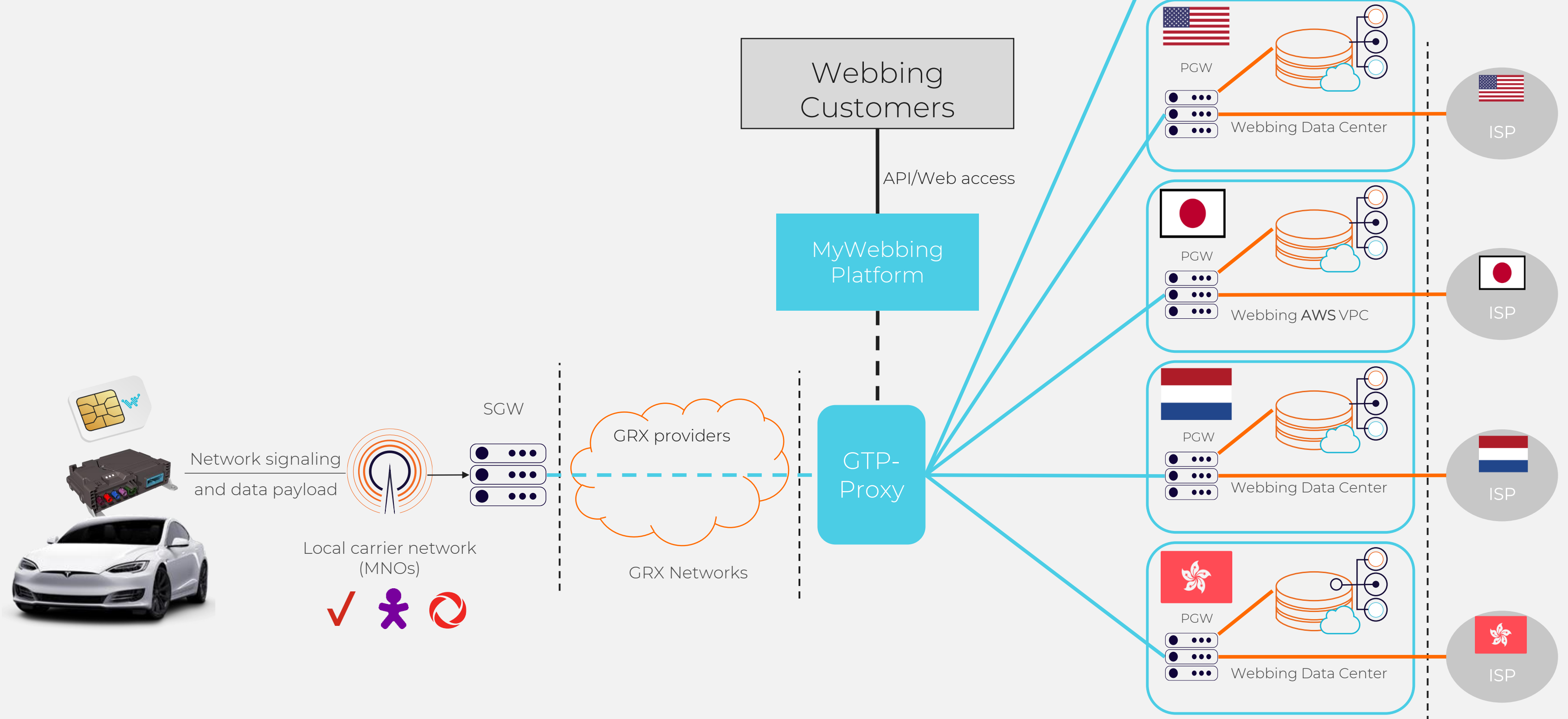
Management Platform
for full connectivity
lifecycle control



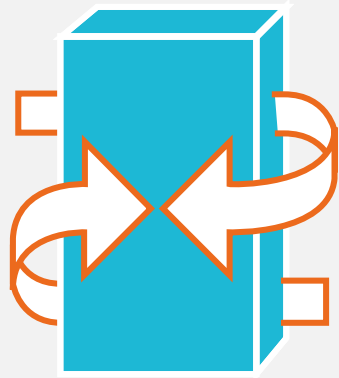
Compliance with
connectivity regulations

Local Breakout Architecture

Supports multiple APN connectivity simultaneously on the same user



Types of Connectivity Regulations



IP Localization



Soft Localization



Full Localization



eCall
(automotive)

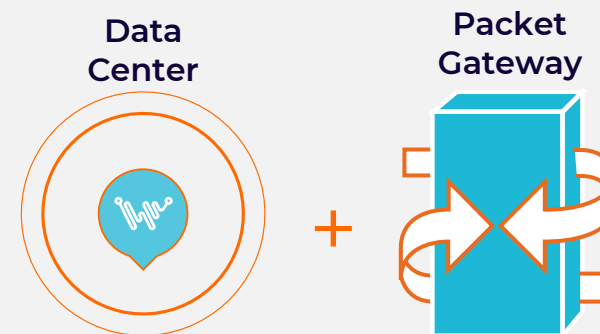


Full Compliance in Regulated Markets with Webbing

Global connectivity with the most advanced global network

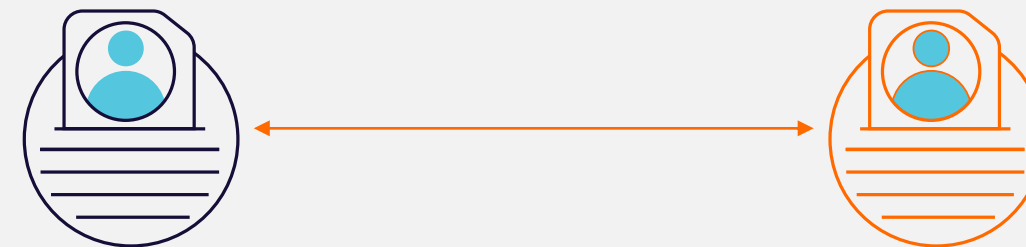
IP Localization:

Local Data Center and Packet Gateway



Soft Localization:

Change between IMSIs



Full Localization:

Local Profile downloaded on eUICC SIM

WebbingCNCT
Profile

MNO B
Profile



eCall:

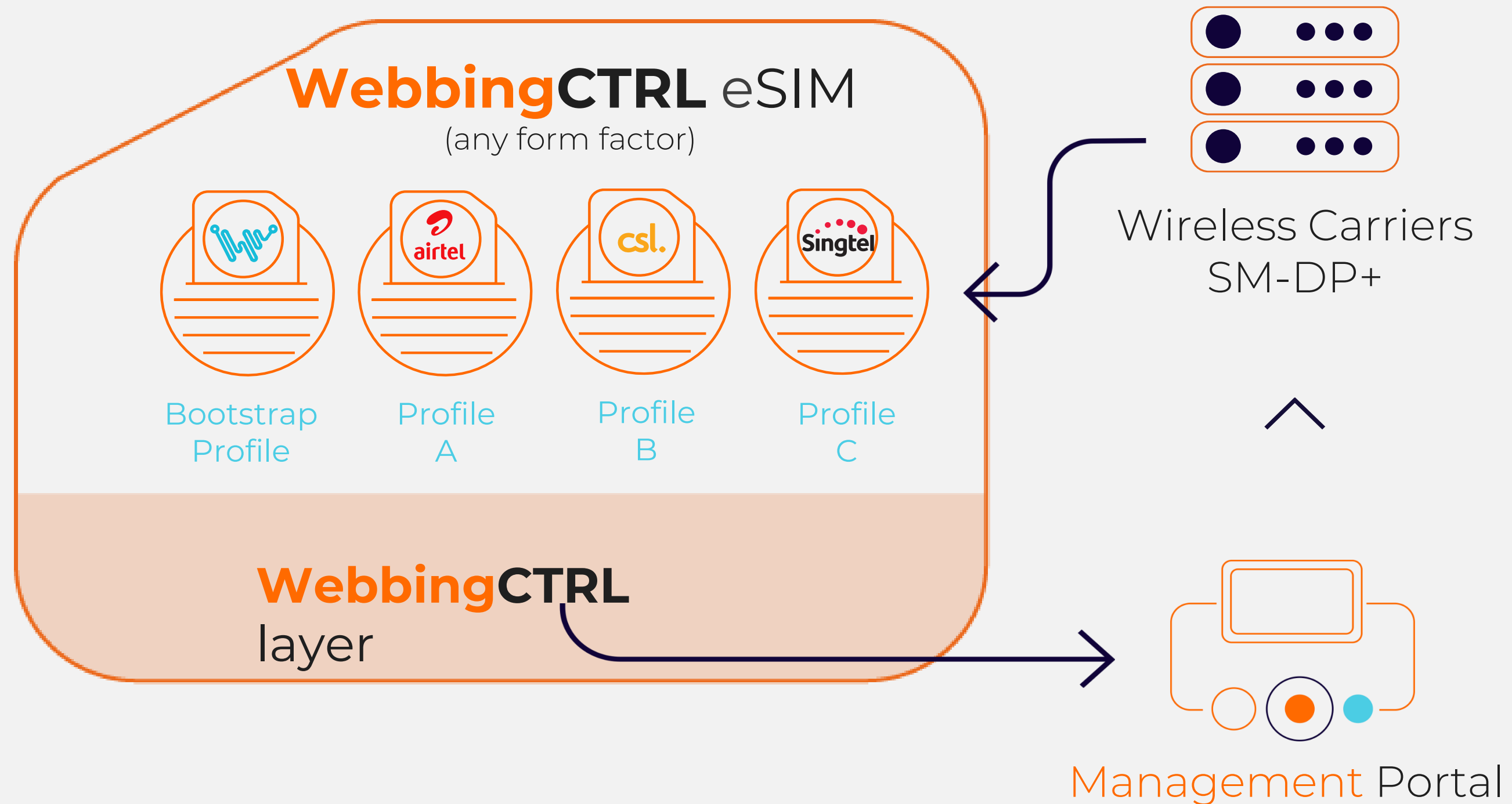
Designated profile for emergency calls





WebbingCTRL

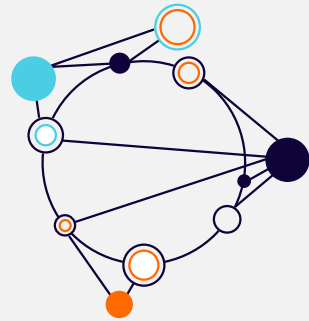
Game-Changing eSIM Technology fully aligned with SGP.32 IoT eSIM Standard





WebbingCTRL

Smart Connectivity for Enterprises



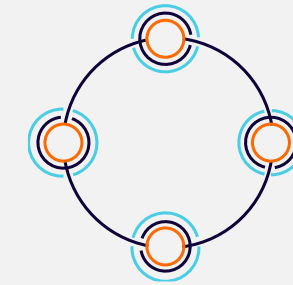
Control & Flexibility

- Remote profile management
- Backup & local profiles
- Secure by design



Single SKU

- Simple and efficient logistics
- Easily scalable
- Cost effective



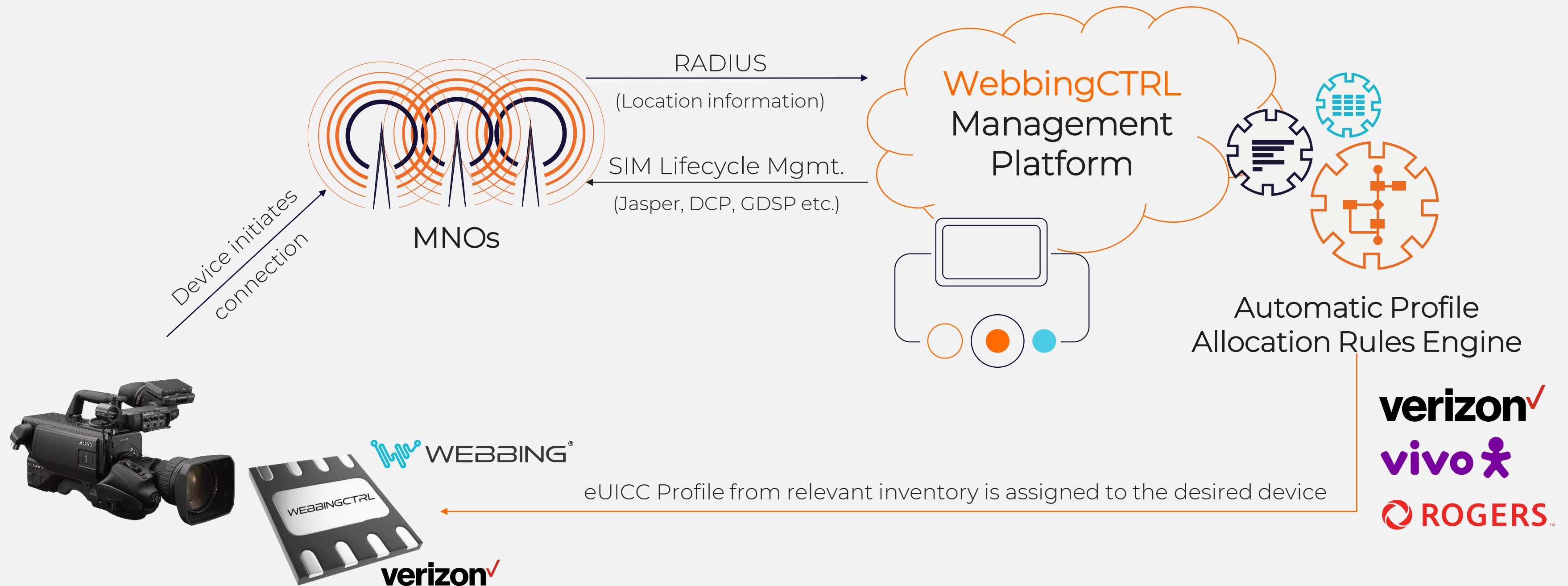
Business Continuity

- Quality and cost optimization
- True global
- Future ready



Automatic eSIM Profile Provisioning

Based on SGP 22/32



Continuous Data Connectivity with Webbing Solutions

Layers of Redundancy and Automatic Failover

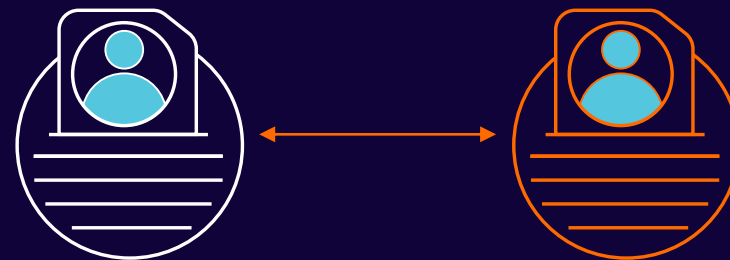
Layer 1: WebbingCNCT

Change between host networks (i.e. problem with antenna)



Layer 2: WebbingCNCT

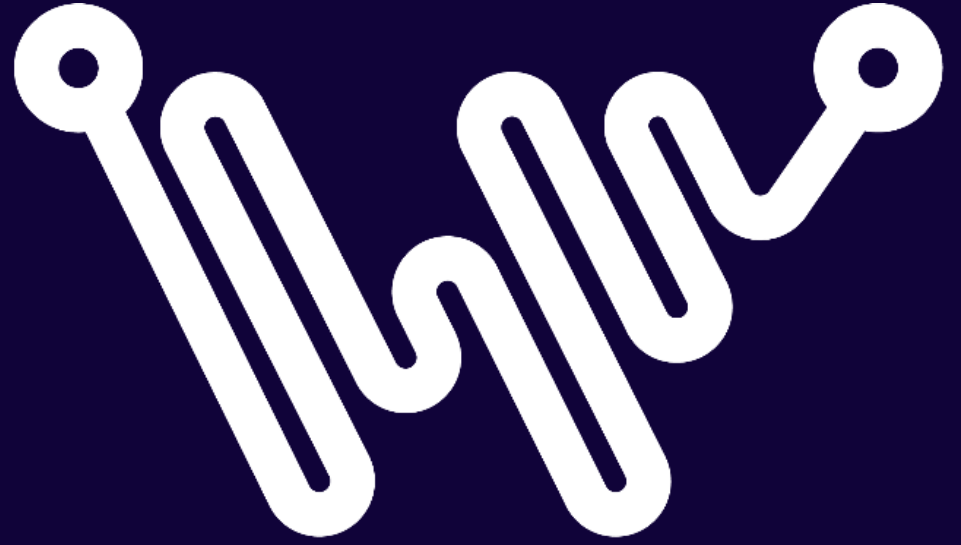
Change between IMSIs (i.e. problem with the roaming agreement)



Layer 3: WebbingCTRL

Change between profiles (i.e. problem with the carrier technology)





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MVNO Summit

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GSMA
Membership

Technology & strategies to meet growing consumer expectations

MWC MVNO Summit

Barcelona, 28th February 2024

Why are we all *here*?

It is all about *digitalisation* of our business

Physical
to
Digital



1 billion
*eSIM enabled
devices in field*

Meet your customers where *they* are



>80% of carriers see eSIM as an opportunity to deploy a **customer friendly and digital user journey**



That First Experience with your Brand



Customer will talk about it with their friends and family

Customer will likely forgive you if there's an issue down the line

Sets the scene for a long-term customer



You've lost them as a customer

You're likely to have lost them forever

(There's no manager in a retail outlet that can smooth things over)



Giesecke+Devrient
Creating Confidence

The background of the slide features a close-up, slightly blurred image of a smartwatch with a black strap and a smartphone with a dark case, both resting on a light-colored surface. A semi-transparent dark blue rectangle is centered over the image, containing the main text.

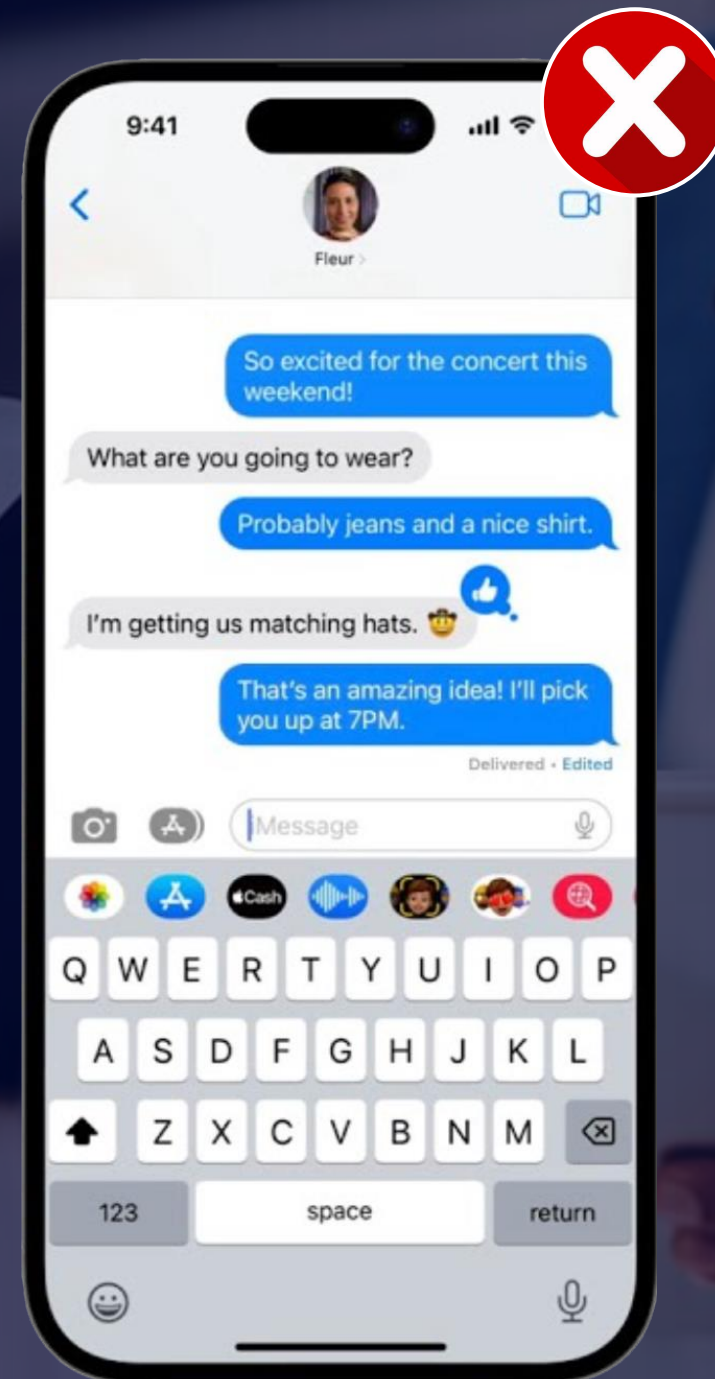
Are you *ready* for **eSIM** ?



VoLTE



Wi-Fi Calling



iMessage



Facetime



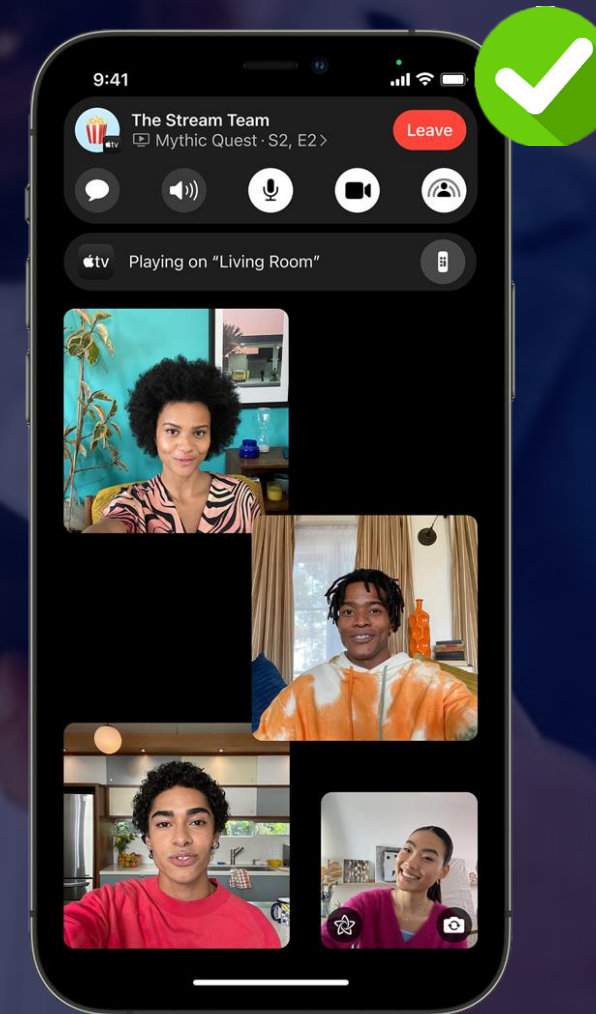
VoLTE



Wi-Fi Calling



iMessage



FaceTime

Entitlement Server



Giesecke+Devrient
Creating Confidence

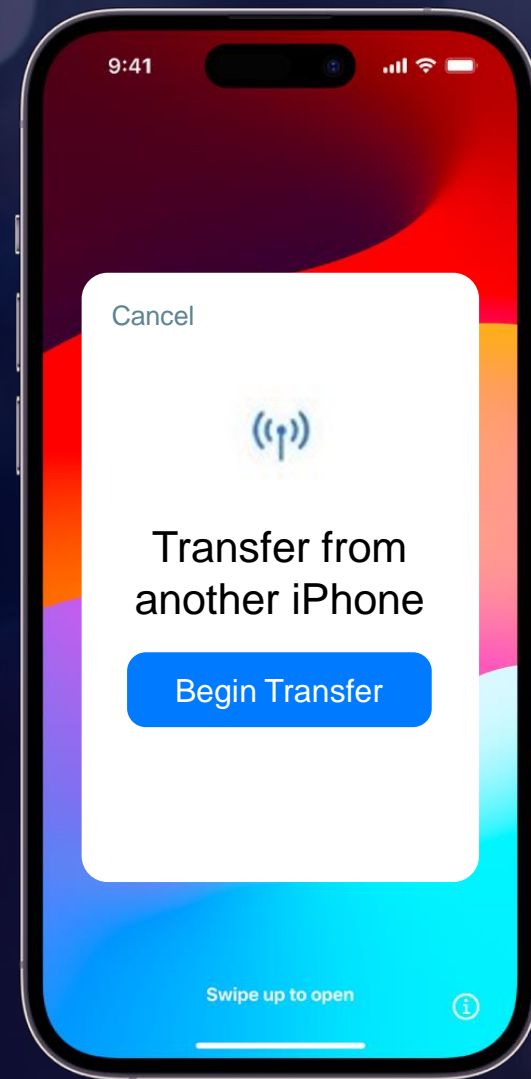
Additional Device Activations



eSIM Quick Transfer (iOS)



Current
iPhone



Latest
iPhone

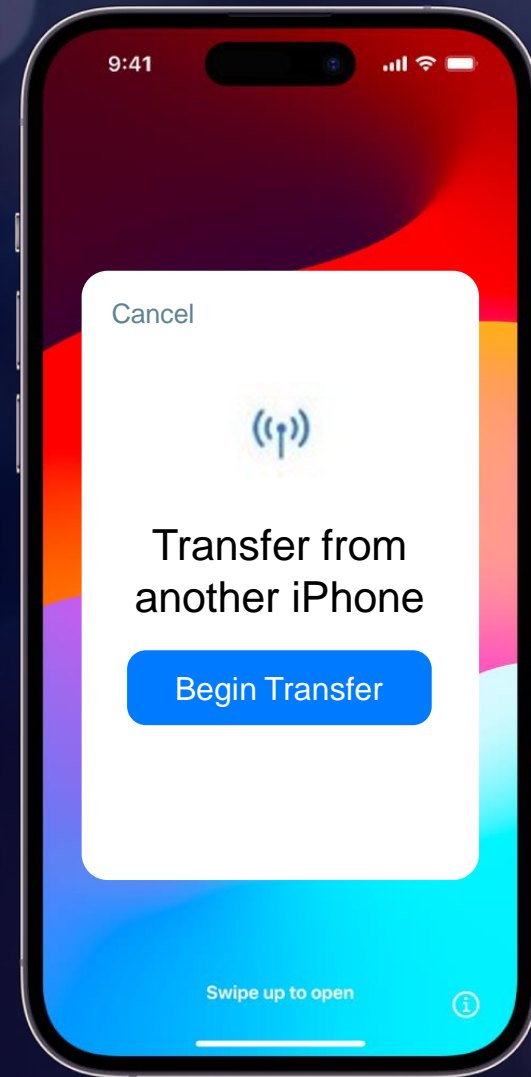
Different Scenarios:



eSIM Quick Transfer (iOS)



Current
iPhone



Latest
iPhone



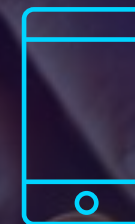
Optimum transfer experience



Enhances carrier reputation



Retains customers



Important for 2024



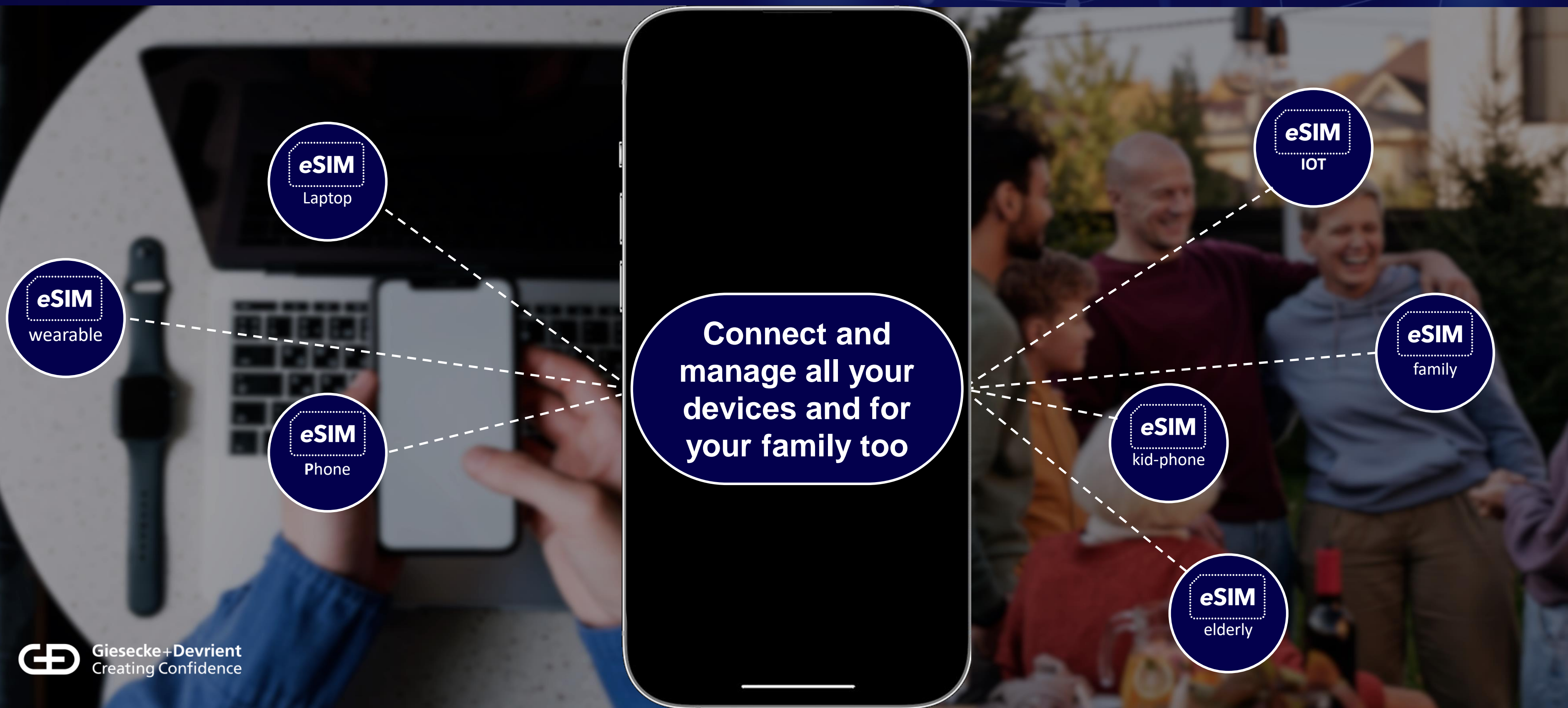
AirOn360[®] ES



- ➔ The **fastest** and most **affordable** way to deploy entitlements today
- ➔ Now available to **every** MNO and MVNO - no matter what size
- ➔ One solution for **both** iOS and Android
- ➔ Commercial model that removes **all the risk** and **fits any budget**

Come and chat with our G+D representatives over in **Hall 7** to find out more

Digital connectivity onboarding of **several devices**



What are the
key-take-aways?

Creating Confidence





MVNO Summit

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Membership

A Private Network Revolution: Unleashing 5G for Smart Factories and beyond

Sandeep Raithatha
Head of Strategy, Innovation & 5G IoT
Virgin Media O2 Business

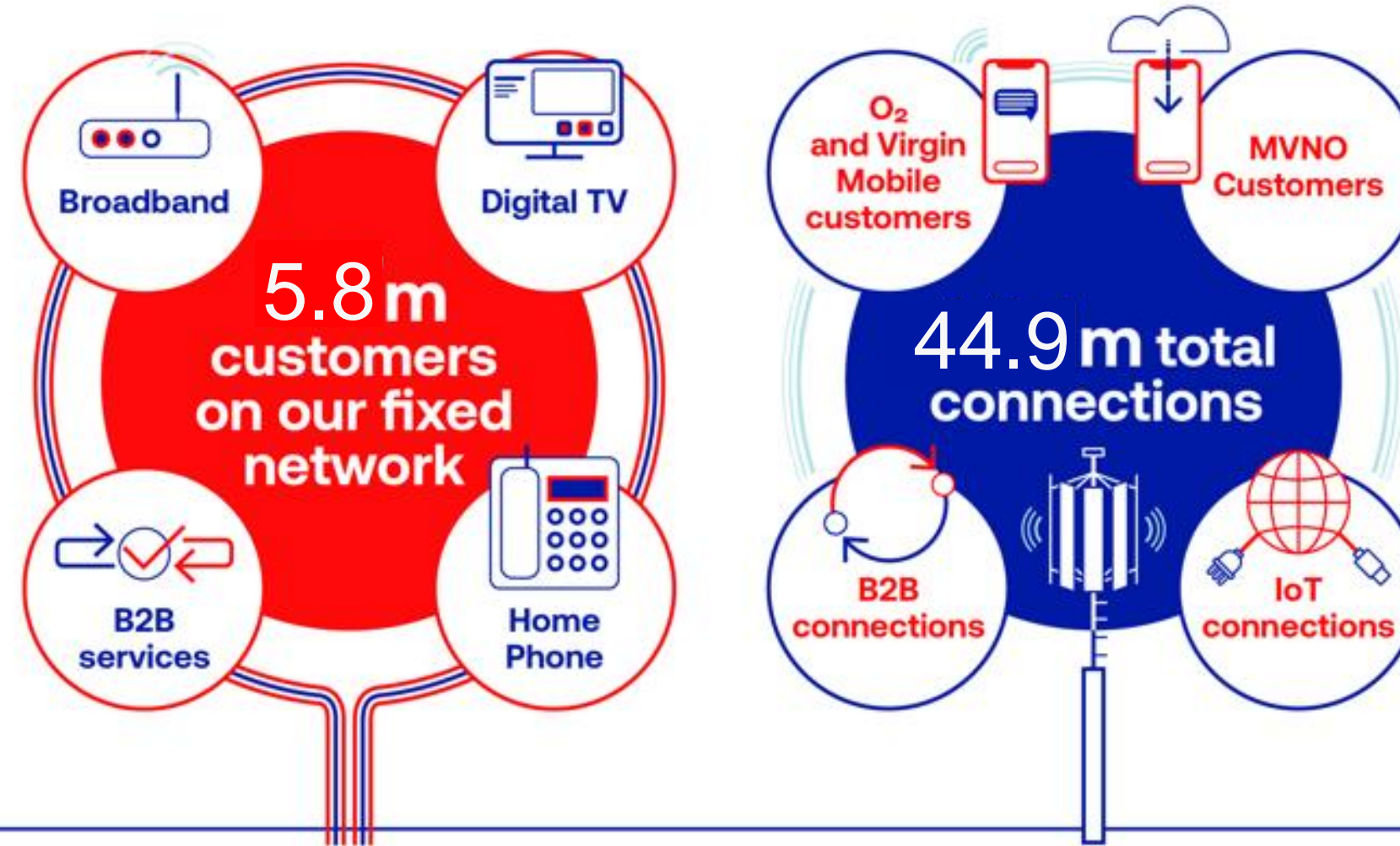


Virgin Media O2

Leaders in connectivity. Supercharging the UK.

We've combined the UK's favourite mobile network operator with a fixed line network that offers the nation's fastest widely-available speeds. All to bring you a truly supercharged network.

Powered by **HFC** (Hybrid Fibre Coaxial) using **DOCSIS 2.0, 3.0 & 3.1**
Fibre to the Premises uses **XGS-PON** technology.



Our Fixed Line Network:

- Carried just **over a fifth** of the UK's internet traffic in 2021
- Moves approx. **40%** of the UK's mobile traffic via the backhaul network (this is how we move mobile traffic between cell sites and the core network)

Our Mobile Network:

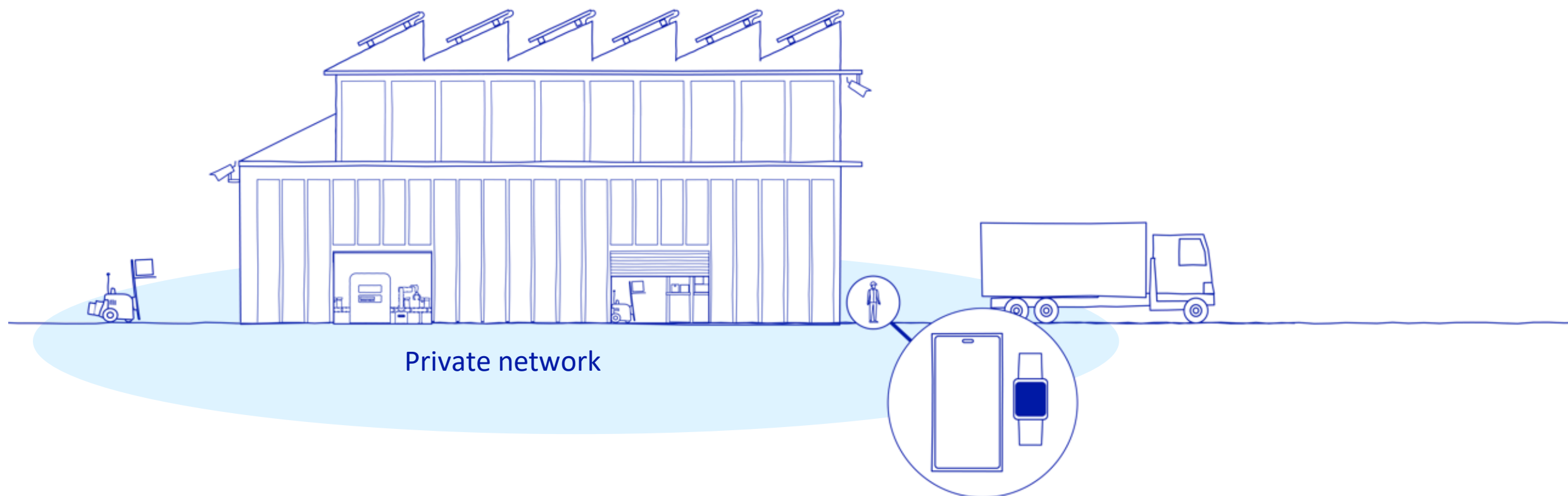
- Enables **116 billion** minutes of mobile calls each year, with demand for data growing by more than around **45%** annually
- 5G: 50% UK population coverage



* Figures accurate as at end of December 2023

5G private networks for digital transformation

The game-changing capabilities of 5G make digital transformation possible for industrial sites where it had been unfeasible before



Dedicated

Local network, dedicated resources, independently managed

Secure

Cellular grade security, sensitive data stays on-premise

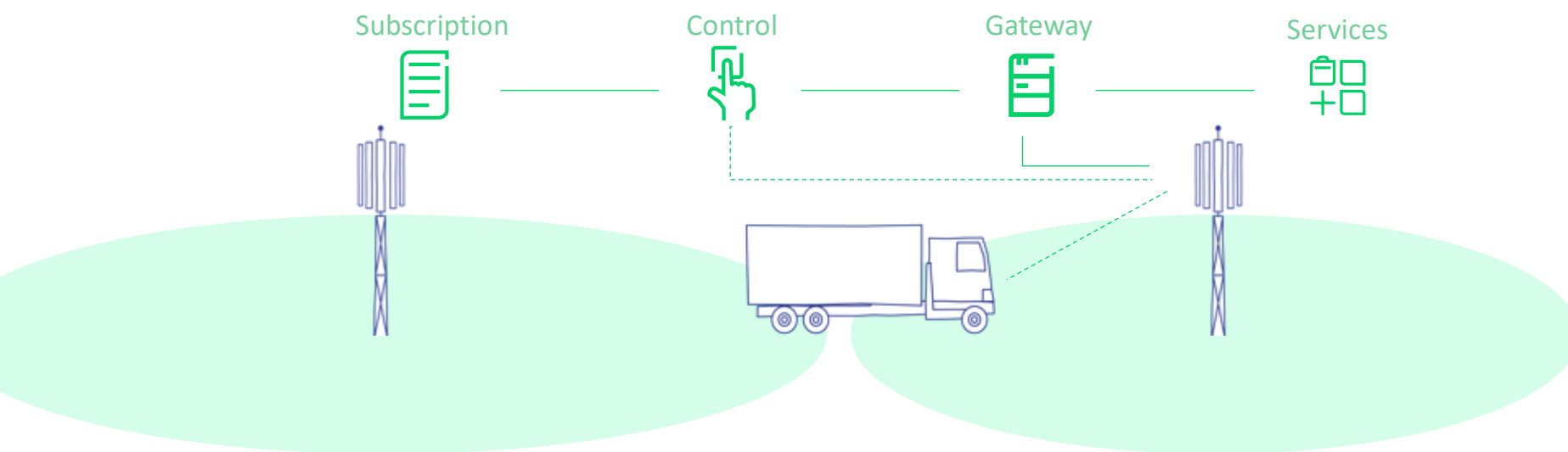
Optimised

Tailored performance for local applications, e.g. low latency, QoS

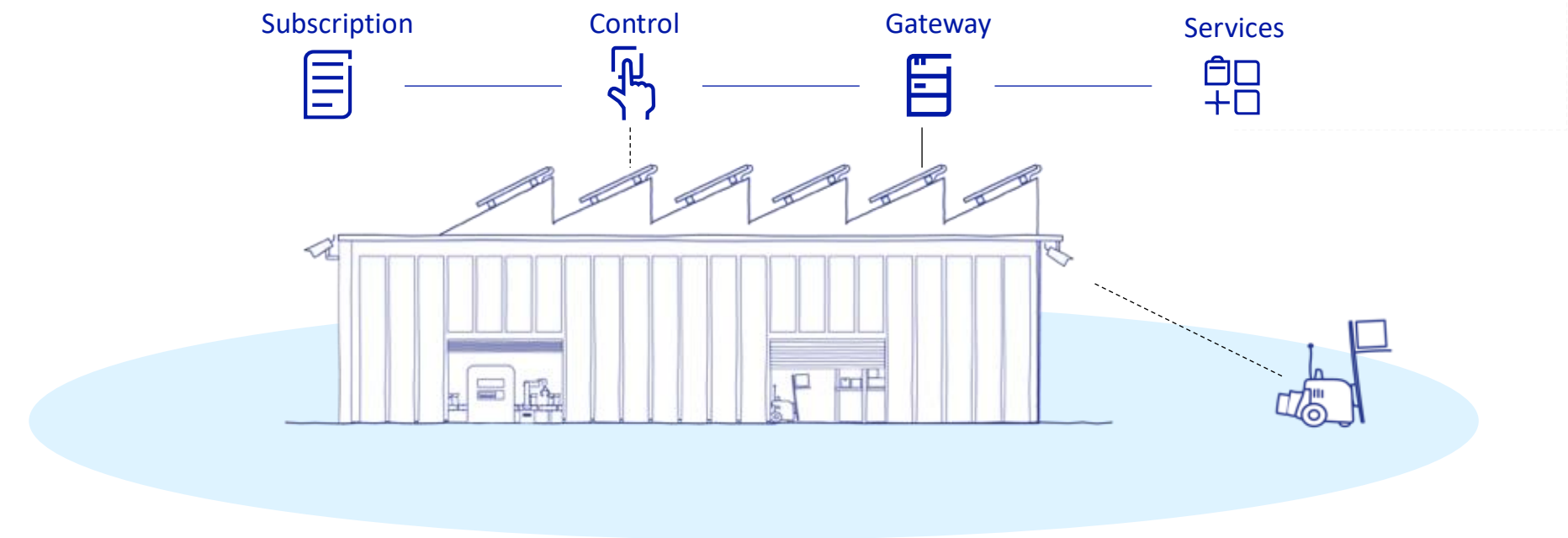
Private networks and public networks

Private networks are entirely self-contained and operated independently from public networks

Public network



Private network



Private Networks has the potential to transform entire sectors

Sectors such as Manufacturing, Transport, Logistics & Utilities have emerged as early adopter verticals despite macro-economic headwinds



Manufacturing



Utilities



Airports
and Seaports



Major infrastructure
projects



Oil, Gas and Energy
companies



Defence



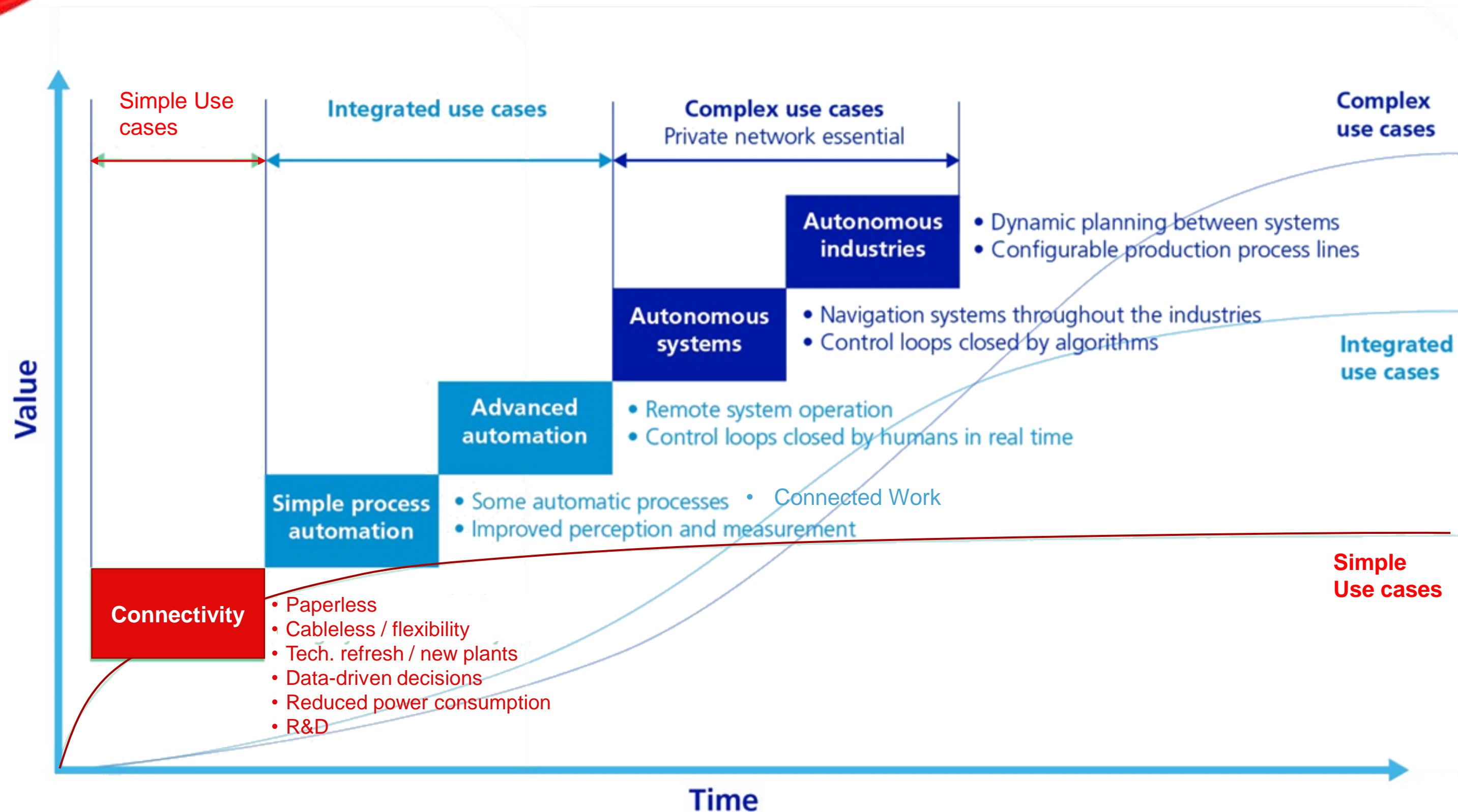
Logistics and
Warehousing



Healthcare

Digital Transformation Journey

Thinking beyond the tech to drive key outcomes and value



British Sugar



The UK's first multi-site private network

The problem

A lack of fast, site-wide connectivity was impacting productivity at British Sugar's main UK factories

The solution

Close cooperation between Virgin Media O₂ Business and British Sugar teams led to the design of a dedicated private network

The outcome

Improved health and safety and security, increased productivity and efficiency with a secure private network



“Previously we needed someone in the control room and someone who could walk around the site. Now we have one person who can walk around the site with the control room in their hands.”

Paul Hitchcock, Head of Factory Organisation at British Sugar

British Sugar case study: **Providing a dedicated 4G private network**



South London and Maudsley NHS Foundation Trust



The UK's first 5G-connected hospital

The problem

The need to investigate efficiency, safety and security benefits of using smart, 5G-connected technologies in NHS hospitals

The solution

Use of smart, 5G-connected technologies in NHS hospitals – including IoT (Internet of Things), AR (Augmented Reality) and AI (Artificial Intelligence).

The outcome

Our Private 5G network reporting benefits of improved productivity & patient care with reliable connectivity



“We are proud to be partnering with Virgin Media O₂ Business to create the UK's first 5G-connected hospital, which enables us to use digital innovations to improve patient outcomes. This is a very exciting step forward.”

Stuart MacLellan, Acting Chief Information Officer at SLAM



It feels fantastic to be a part of the UK's

A slice of the action: the potential of 5G network slicing at Comic Con



Augmented reality e-sport, Hado, run on a dedicated slice on Virgin Media O2's 5G standalone network, which enabled remote play and live broadcasting.

The problem

The need to connect eSport competitors reliably in a congested venue with spectators also using the network whilst also broadcasting the game in high-quality

The solution

The dedicated network slice also provided a stable, secure and reliable communications platform that enabled the live broadcast of the games worldwide.

The outcome

Competitors taking part in the game at Comic Con were able to compete remotely and in real time against teams located in both the United States and South Korea



“5G standalone and network slicing will be game changers for the gaming industry. The ability to compete with people from all around the world and break down previous geographical limitations will have a real positive impact for Hado and other esports like it. It was particularly impressive that all of this was possible at a location as busy as Comic Con..”

Jim Sephton, Managing Director of Hado UK

Key Takeaways

- Private 5G has a key role to play in digital transformation for critical industries as seen in Manufacturing or Healthcare
- Think beyond the technology to get the most value, don't lose sight of the business objectives
- Need to demonstrate ROI for the technology and solution. It's important to measure before, during and after

Panel Session

The key ingredients required to successfully meet customer expectations



Danielle Rios Royston
Acting CEO
Totogi



Galit Dan
VP Business
Amdocs ConnectX



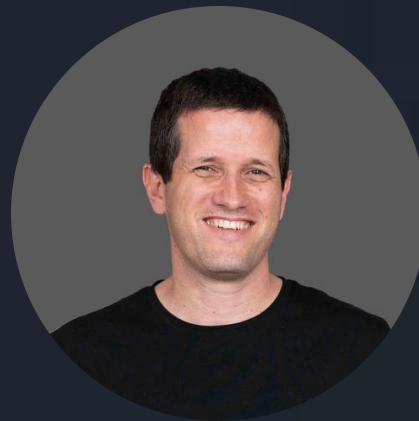
Justin Reilly
Chief Executive Officer
Wavelo



Rob Bennet
Senior Vice President, Retail Wireless
Technology
DISH



David Clyde
Group Brand Director
Lebara



Noam Lando
Co-founder & CEO
Webbing



Michelle Bugner
Head of Wholesale
Giesecke+Devrient



Sandeep Raithatha
Head of Strategy, Innovation & 5G IoT
Virgin Media O2 Business

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Together with our members, we make connectivity work for all

- Engineering the future of connectivity
- Enhancing your profile across the ecosystem
- Advancing policy and regulatory priorities
- Supporting the global ecosystem
- Delivering industry services, intelligence and training

Find out more

Join us at Future Space, GSMA Pavilion, Hall 4

gsma.com/membership

