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SHANGHAI
26-28 JUNE 2024

MWC24

FUTURE FIRST

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MWC™
GSMA

eSIM Summit

A New Era of Innovation

MWC Shanghai

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eSIM Market: China and Beyond

eSIM 市場

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华大电子

Speaker



Chris Li,

Product Director,

GSMA

李浩然 GSMA 产品总监

Hosted @ **MWC™**
GSMA

eSIM availability in consumer devices

Commercialisation is ramping up

eSIM consumer devices

Smartphones
Smartwatches
Tablets
Laptops
Cars
Security cameras
5G FWA CPE
Bikes
Wearables
GPS trackers

eSIM IoT Devices

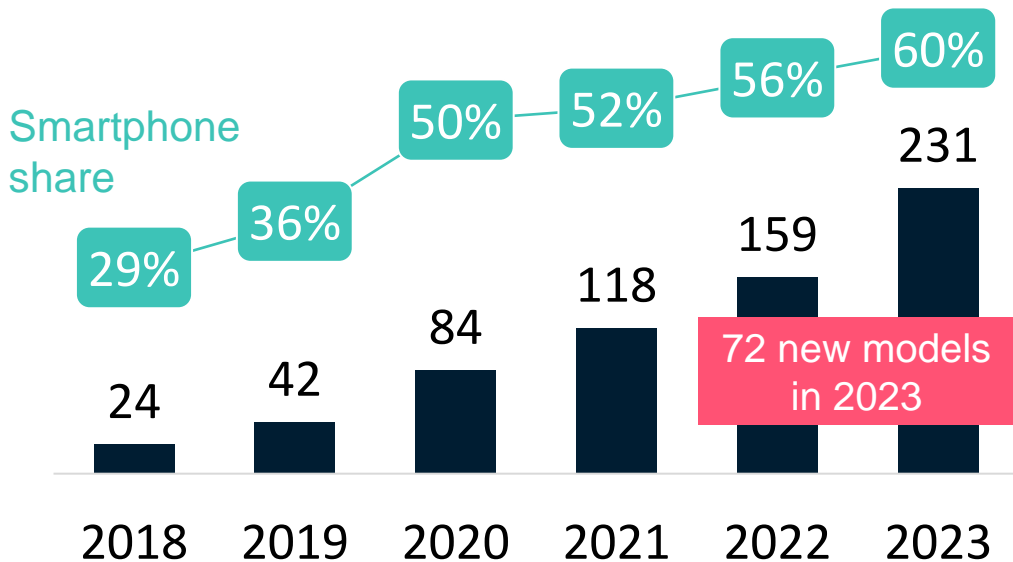
Connected vehicles
Drones
Smart meters
Security devices
GPS trackers
Healthcare devices
Security cameras
Wearables
Robots
Smartwatches
Street lighting

eSIM availability in consumer devices

2023 the strongest year so far; 2024 looks solid too

How many eSIM consumer devices have been launched?

Number of models launched (sum of smartphones, smartwatches and tablets; cumulative figures) and smartphone share (i.e. eSIM smartphones as % of total eSIM consumer devices)



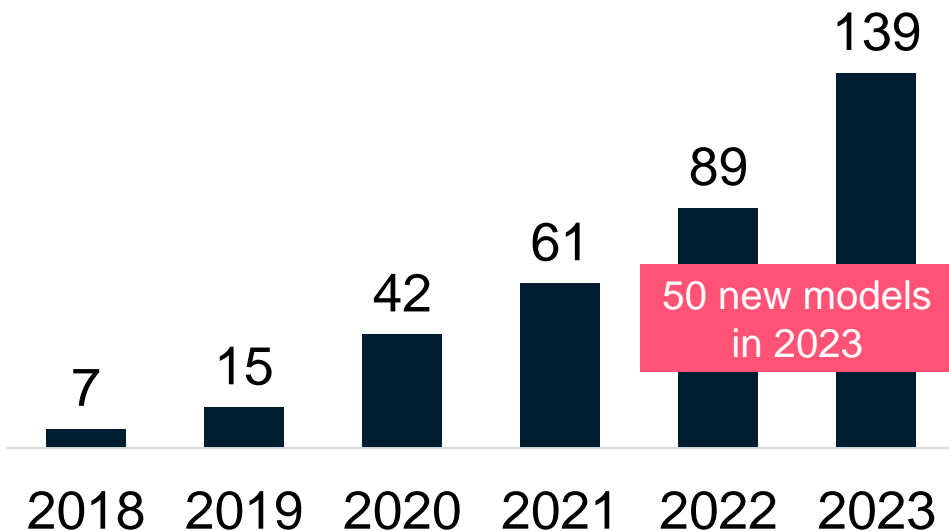
- **10x** growth over the last five years
- Most of the top OEM brands have launched eSIM devices
- Smartphones lead
- **2024 looks solid too:** 29 new models launched during January-May 2024

eSIM availability in smartphones

Rising; eSIM-only iPhones in the US a major milestone

How many eSIM smartphones have been launched?

Number of models commercially available for purchase.
Cumulative figures



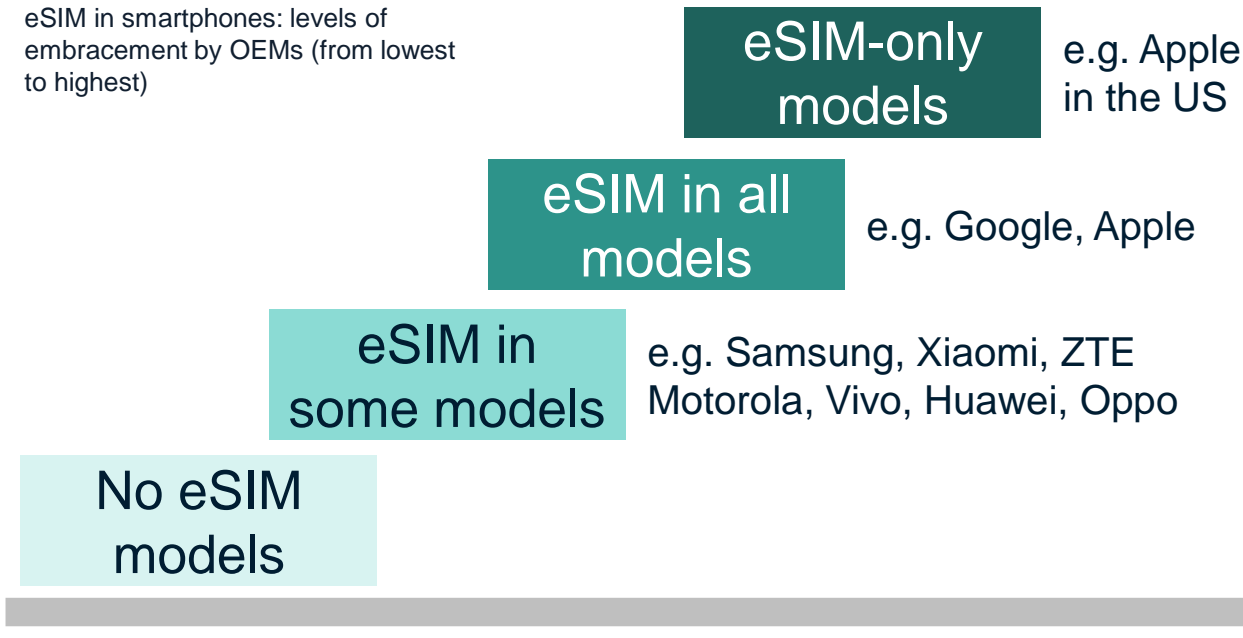
- **Doubling** over the last two years
- Most brands have launched eSIM. Apple, Samsung and Google leading, followed by Motorola
- Launches are accelerating. 5G and eSIM get together
- eSIM-only iPhones in the US a major milestone (Sept. 2022)
- More work to do: eSIM is mainstream in flagship smartphones. Expanding availability of eSIM beyond flagships

eSIM in smartphones

OEMs have taken different approaches to eSIM so far

Four different routes

eSIM in smartphones: levels of embracement by OEMs (from lowest to highest)



- Good to see progress

BUT...

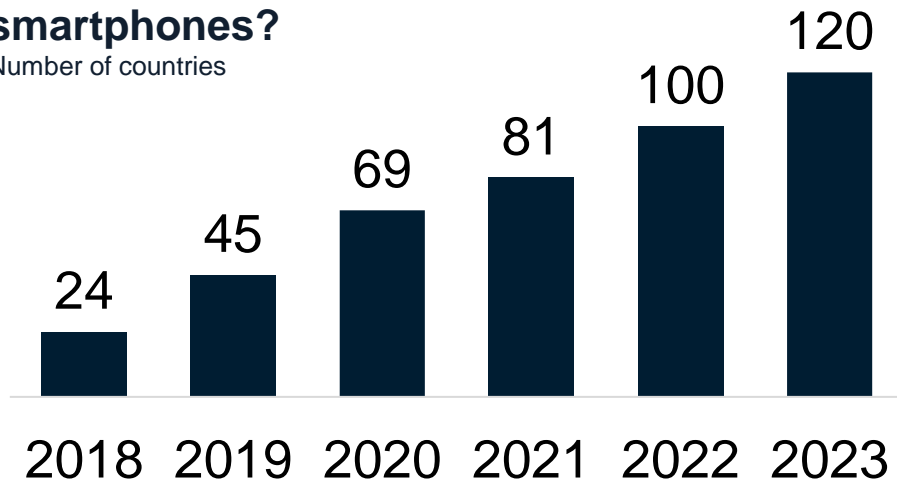
- OEMs taking four different routes creates confusion, and it doesn't help drive eSIM adoption at scale
- Greater embracement of eSIM is needed

eSIM service for smartphone is now global

Half of the world's countries have launched eSIM

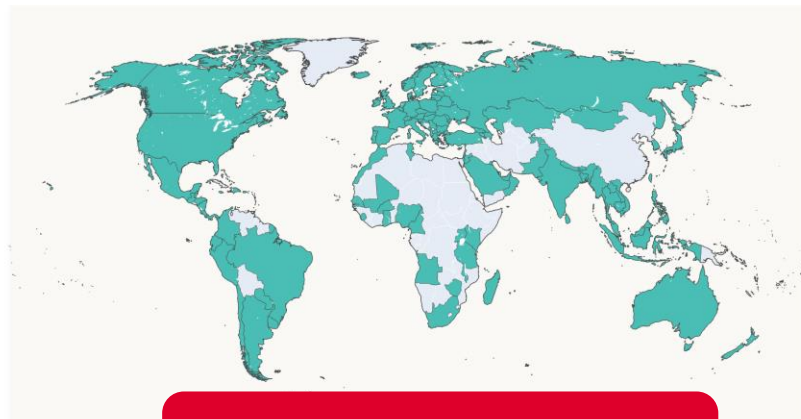
How many countries have launched commercial eSIM service for smartphones?

Number of countries



- China is still a notable exception: timelines are unclear
- Africa is catching up: most of the 20 new launches in 2023 were in countries from Africa

eSIM geographical reach



Excluding eSIM for international roaming

New business models are emerging Centred on digital & capitalising on the shift to digital

A range of operators have launched digital-first or digital-only consumer propositions, (including digital brands) targeting digital native and tech-savvy customers

Leveraging eSIM as a main connectivity form factor

Digital brands

Some examples

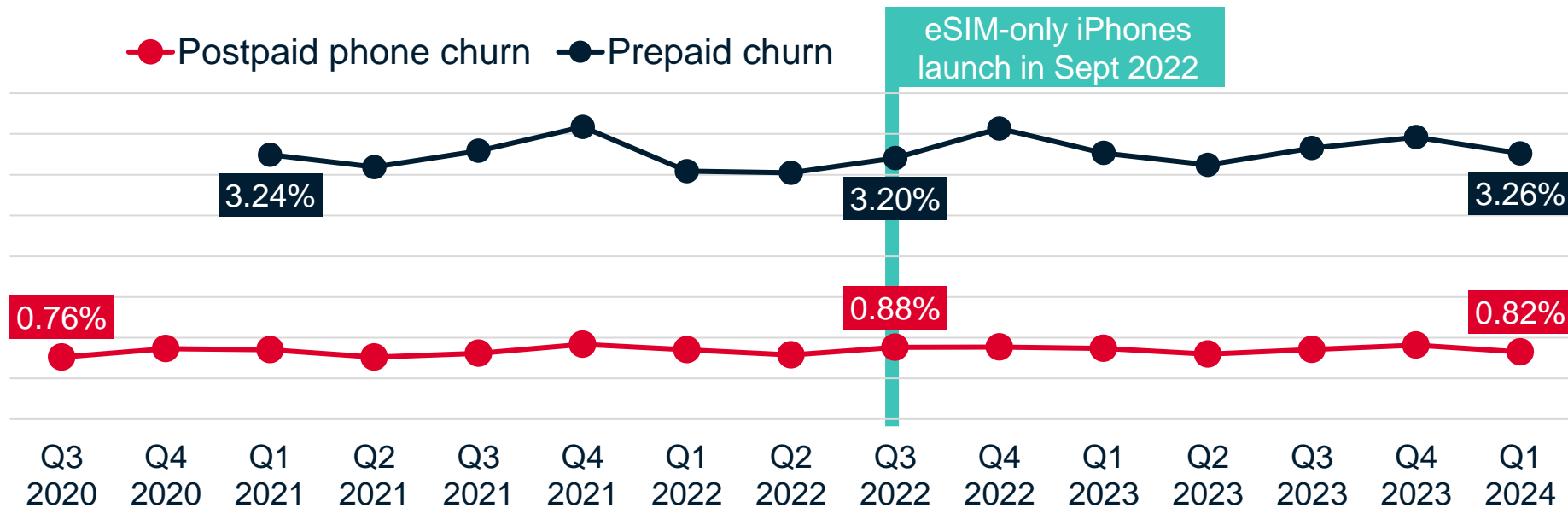
- **Visible (US)**
- **Fizz (Canada)**
- **Telia Dot (Finland)**
- **Yoodo (Malaysia)**
- **Win by inwi (Morocco)**
- **Source (France)**

The mobile churn concern has no real evidence

Churn dynamics in the US: eSIM has had no impact

Why the US? It's (by far) the biggest eSIM smartphone market (~30% eSIM penetration)

- eSIM-only iPhones launch in Sept 2022 & Apple having ~half of the phone market

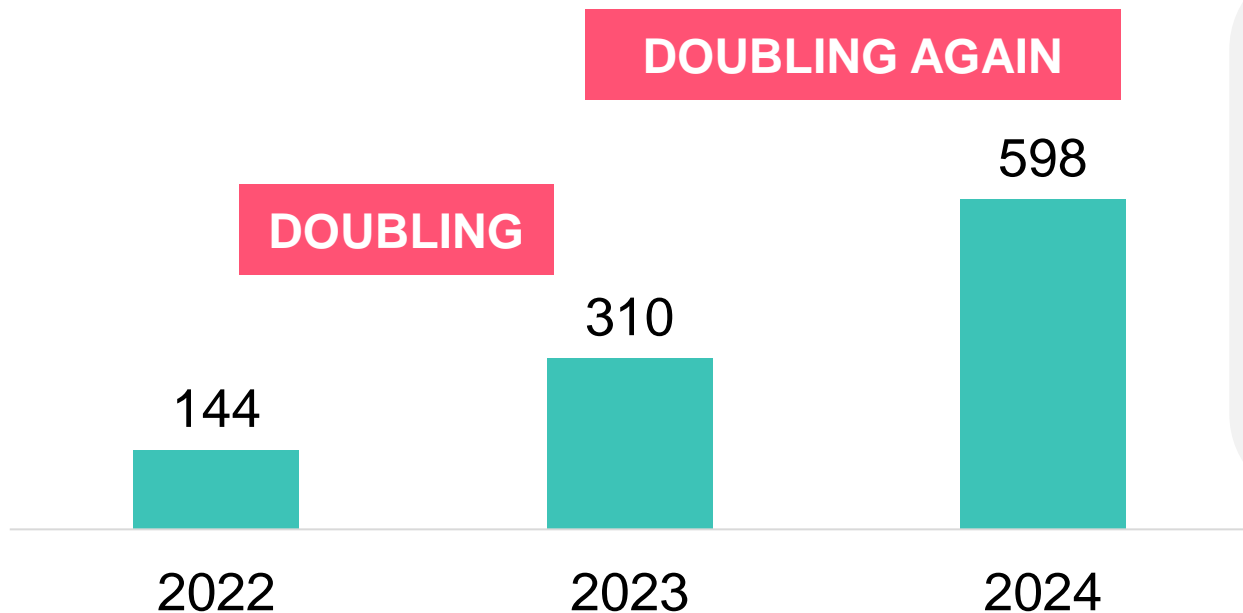


What about consumer adoption of eSIM?

eSIM smartphone connections doubling for two years!

Number of eSIM smartphone connections (installed base)

Million, globally



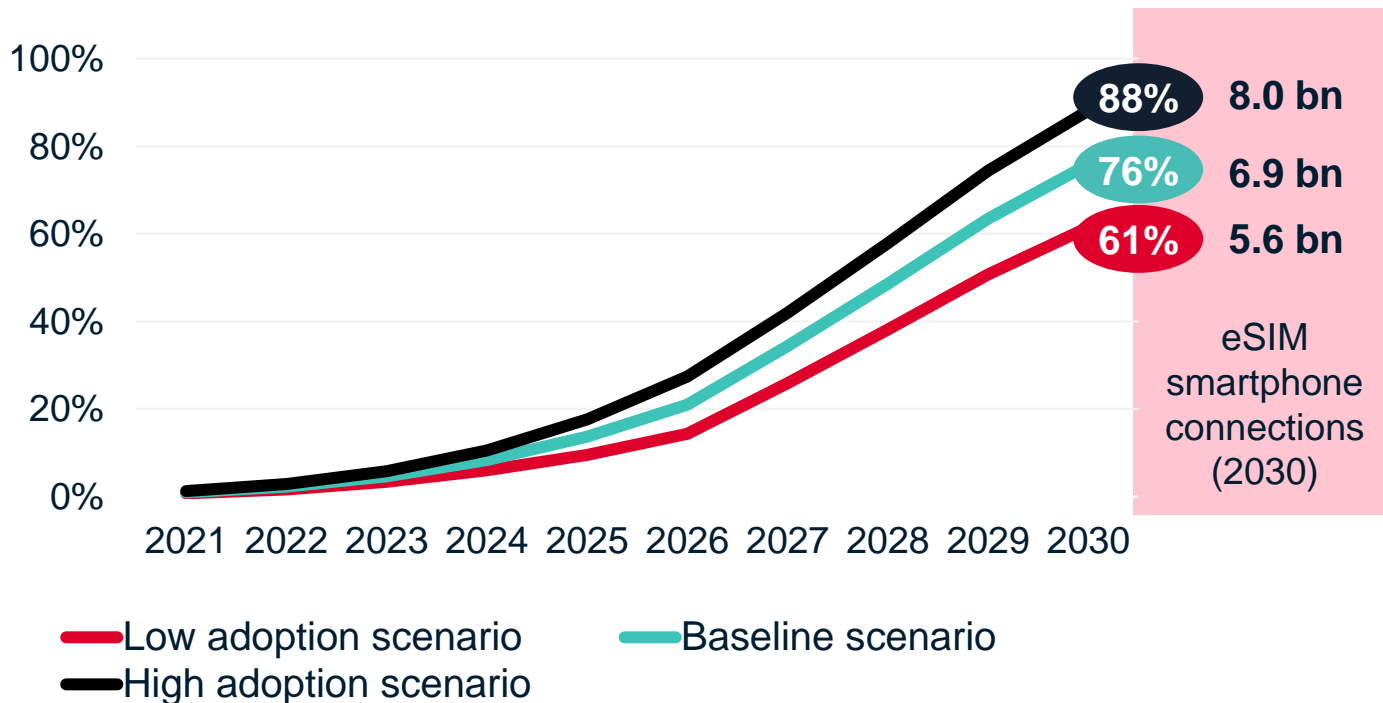
- The **US** is the largest driver of growth, accounting for ~25% of global eSIM smartphone connections (in 2024)
- **Europe** and **Asia-Pacific** follow

Long-term outlook for eSIM in the smartphone market

Consumer awareness grows, but adoption takes time

eSIM smartphone connections to 2030

Percentage of total smartphone connections (installed base) globally



Key milestones:
Baseline scenario (globally)

1 billion eSIM smartphone connections by **2025**

By **2028**, **half** of smartphone connections will use eSIM

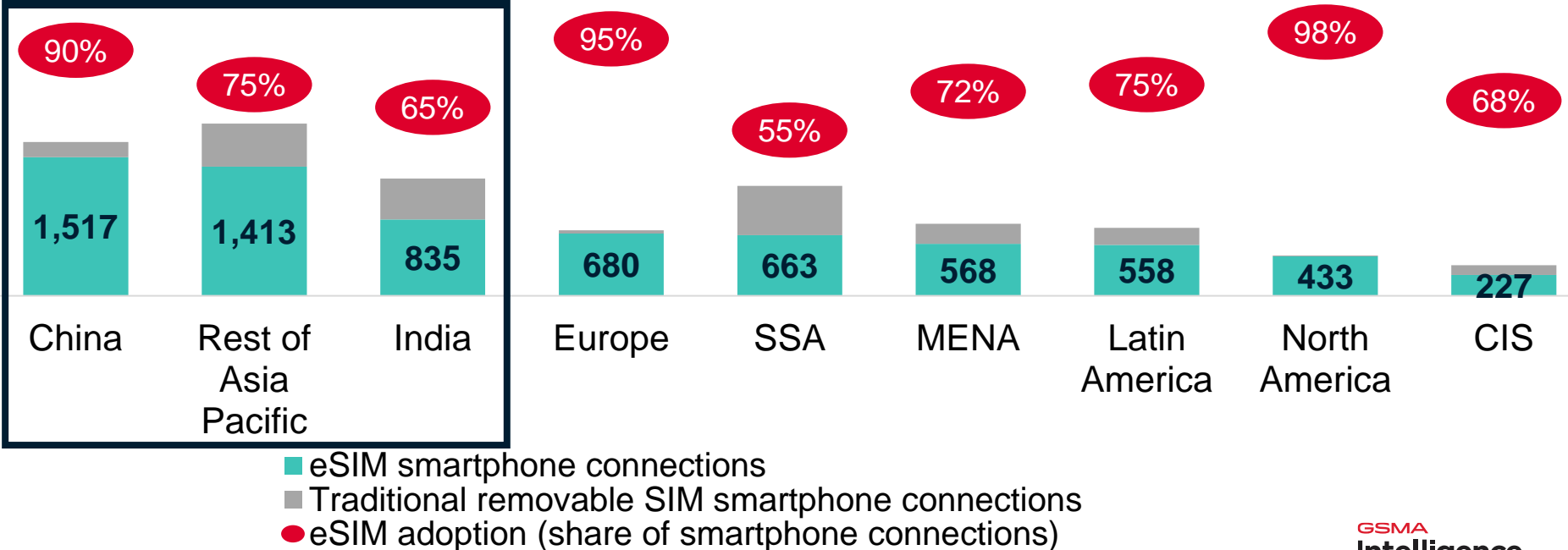
eSIM adoption in the smartphone market

Speeds will vary by regions: APAC will take the lead

eSIM smartphone connections by region, 2030

Baseline scenario, installed base (million)

APAC will take the lead

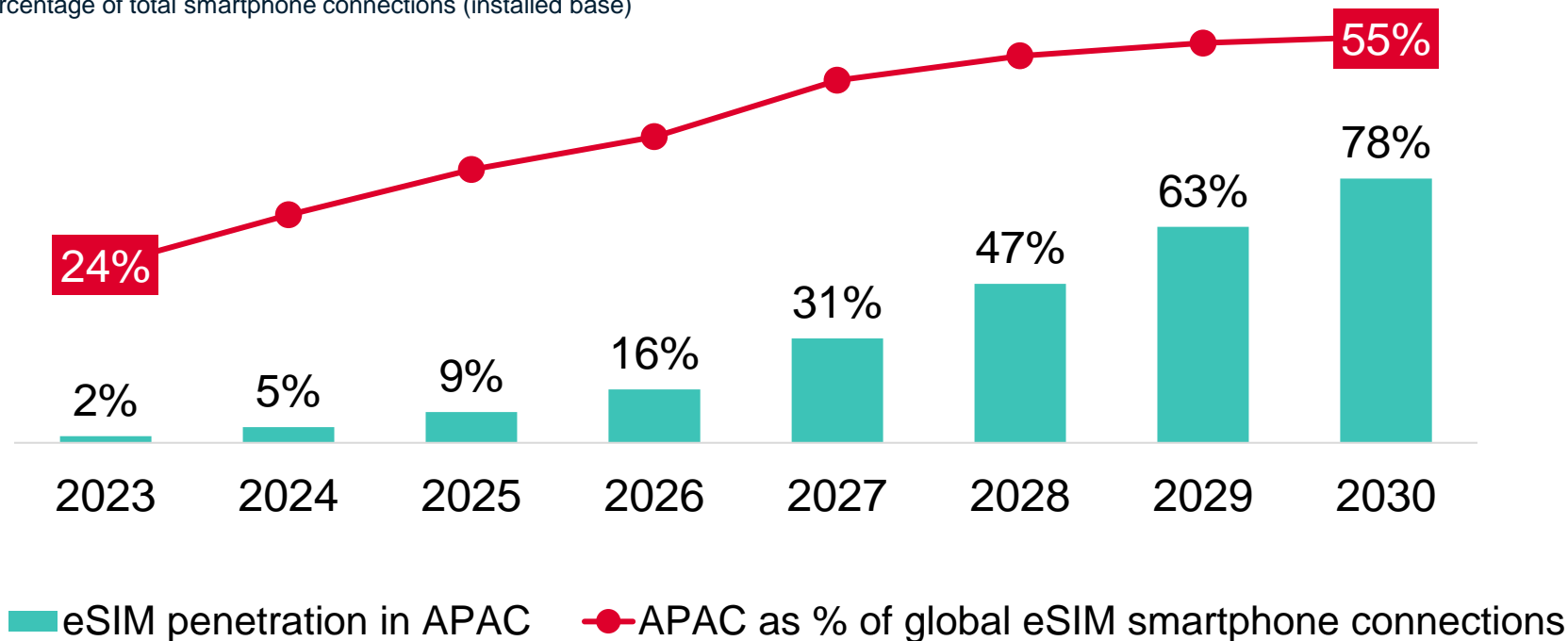


Asia-Pacific: eSIM adoption in the smartphone market

The region will have a growing role in driving eSIM

eSIM penetration in Asia-Pacific

Percentage of total smartphone connections (installed base)

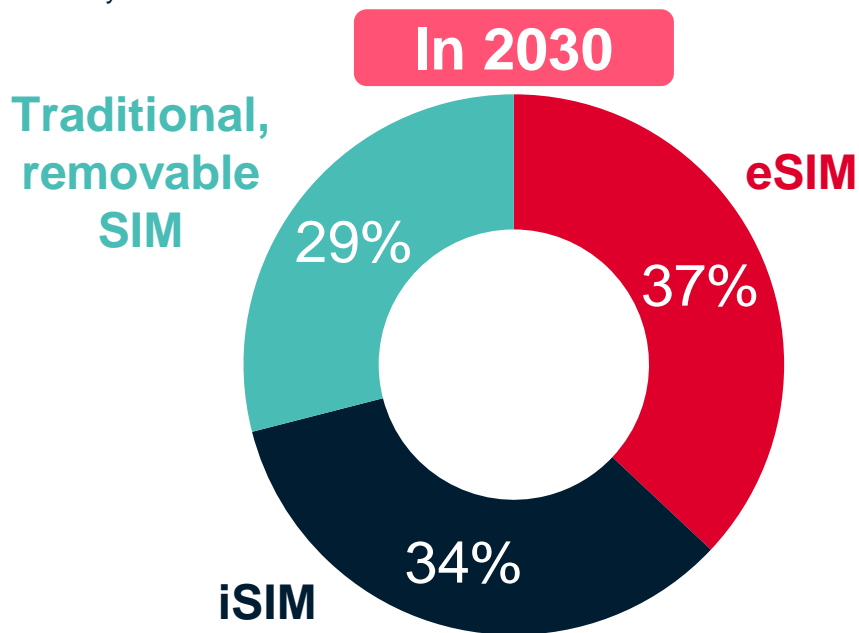


Operator expectations on eSIM & iSIM adoption

eSIM & iSIM capturing ~70% of the IoT cellular market

Operator views: Share of the total number of cellular IoT connections

Globally



- Today, a majority of cellular IoT devices use the traditional, removable SIM
- Our survey shows that operators expect eSIM and iSIM to account for a combined **71%** of the IoT cellular market by **2030**
- **eSIM versus iSIM is not an either/or scenario**; both are valid options that will coexist for years to meet the requirements of varied IoT use cases

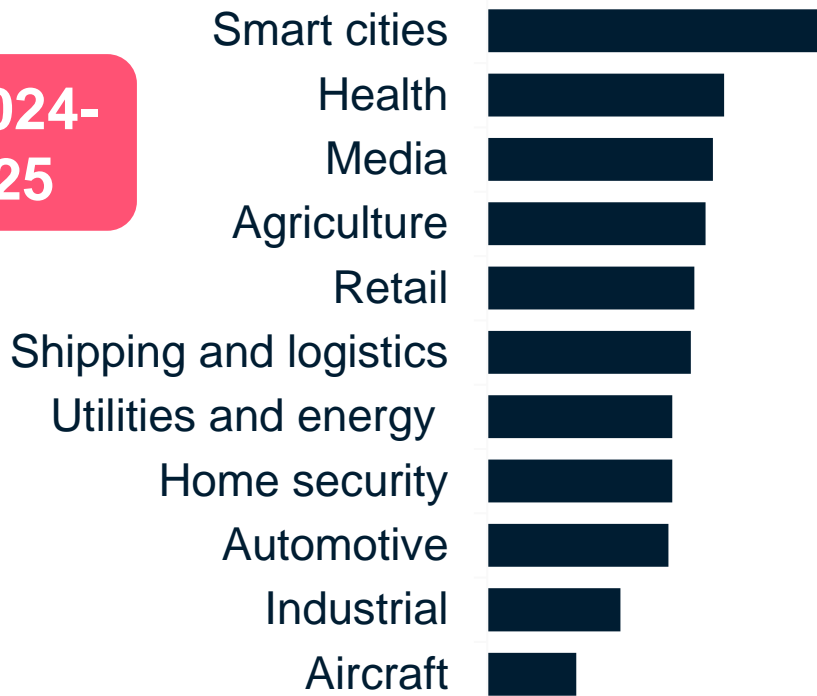
Operator expectations on eSIM demands by verticals

Seeking scale beyond automotive

Operator views: Demand for eSIM-enabled solutions from industry verticals

Globally.

**In 2024-
2025**



- General consensus that enterprise demand for eSIM-enabled solutions will grow across **most industries**
- **Automotive** ranked lower (because eSIM is already mainstream!). Nevertheless, automotive will continue to lead in eSIM adoption while offering new business opportunities (e.g. contract renewals, use of dual-eSIM technology)
- **Smart cities leads expectations for growth**

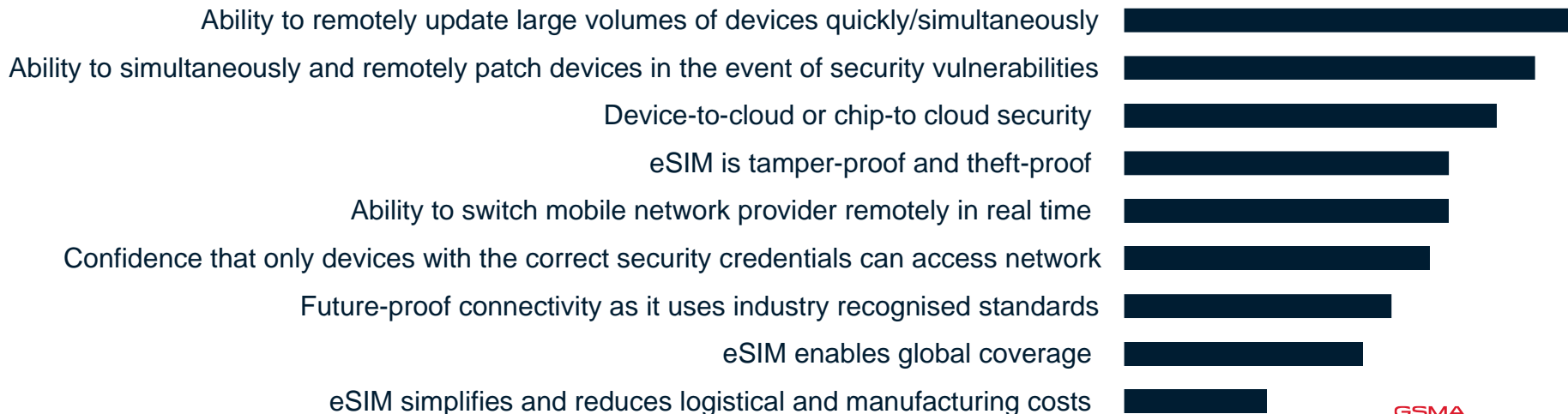
eSIM: key value-add elements for operators

Top eSIM benefits: best-in-class security & scalability

It is encouraging to see an alignment between the benefits of eSIM for IoT deployments expected by end-user enterprises and those promoted by operators –both centre on security and scalability

Operator views: benefits of eSIM for enterprise IoT deployments

Globally



Understanding IoT deployment challenges is key eSIM needs to help enterprises address key challenges

1

End-user enterprises
have high awareness of
eSIM

Top challenges faced by enterprises when deploying IoT solutions

Globally. Across most vertical sectors

Integrating IoT technology
with existing technology



Security and data privacy
concerns



Cost of implementation



Lack of in-house skills



Unclear RoI



2

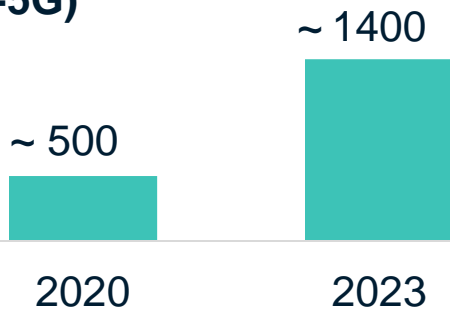
They believe eSIM is
important to achieve
success in IoT
deployments

Private Wireless Networks

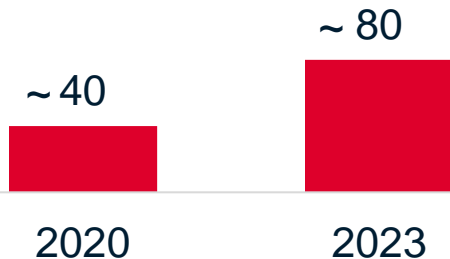
Momentum is accelerating: an opportunity for eSIM

Private Wireless Networks deployments (4G+5G)

Number of unique organisations or government entities



Number of countries



Trends in Private Networks deployments

- 4G was the leading network in the early days; **5G has now taken the lead**
- **Industrial sectors lead** (e.g. manufacturing, mining)...but there are deployments in all sectors of the economy
- Deployments are mainly in the **developed world** so far, with the US, Germany, China, UK and Japan leading
- **Growing and diverse range of suppliers**

Scaling eSIM

Some of our recommendations

- 1 Help enterprise customers address their IoT pain points through eSIM
- 2 Understand what enterprises expect from eSIM
- 3 Leverage learnings from consumer eSIM
- 4 Full ecosystem alignment on specifications is crucial
- 5 eSIM versus iSIM is not an either-or scenario
- 6 Scaling up IoT services is the ultimate objective

Discover GSMA Intelligence Exclusive eSIM Bundle

1

Major Report

[Accelerating eSIM globally: state of the consumer market, user behaviour and adoption growth scenarios](#)

2

Major Report

[eSIM vendors in focus: exploring views and expectations on eSIM in smartphones](#)

3

Spotlight

[Scaling eSIM in IoT markets: new tech and market developments should help accelerate adoption](#)

4

Dashboard & Data

[Consumer eSIM in Focus 2023: Consumer Behaviour, Devices and Services Launches, Adoption Forecast](#)



About GSMA Intelligence

info@gsmainelligence.com



30+

analysts &
industry experts



350

data metrics
tracked



44K+

users
worldwide



170

data metrics modelled
and forecasted up to
2030



150+

reports published
annually



2k+

news items curated
on our platform,
updated quarterly



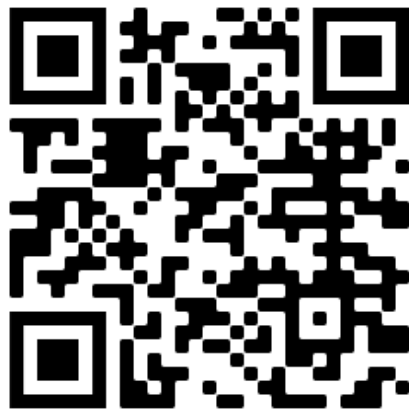
50m

data points
updated daily



6K+

operator
networks
tracked



GSMA eSIM Services

GSMA eSIM 服务

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RedteaMobile



华大电子

Speaker



Chris Li,

Product Director,

GSMA

李浩然 GSMA 产品总监

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GSMA Working Group

Specification Readiness



GSMA eSIM Consumer Readiness



eSIM Consumer Technical Specification (SGP.22)
v3.1
→ Published October 2023



eSIM Consumer Test and Compliance Specifications
SGP.23 and SGP.24
→ October 2024



GSMA eSIM Consumer Compliance Products v3.1
→ October 2024 or later



GSMA eSIM IoT Readiness



eSIM IoT Technical Specification (SGP.32)
v1.2
→ June 2024



eSIM IoT Test and Compliance Specifications
- SGP.33 and SGP.24
→ Target October 2024



GSMA eSIM IoT Compliance Products v1.2
→ October 2024 or later

Last Update 12 Jun 2024 before eSIMG#46

Evolution



Consumer



Profile Extended Storage on the Device



eSIM Secure Profile Export – Study Report



Activation Code Retrieval



IoT



Multiple Active Profiles



Local Enabled Profile



Consumer and IoT



Post Quantum Cryptography for eSIM Consumer and IoT – Study Report



In Factory Provisioning

Last Update 12 Jun 2024 before eSIMG#46



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 the GSMA Pavilion, N3.B70

gsma.com/membership



GSMA eSIM Service – Bridging the World

GSMA Industry Services for the eSIM ecosystem

eUICC Identity Scheme

This global eSIM identification system is made to work for all – as requested by the industry. So finally, manufacturers can allocate their own eUICC identification numbers (eIDs).

eUICC Security Assurance

The global security scheme for eUICC software security – building trust into the future of mobile.

Security Accreditation Scheme

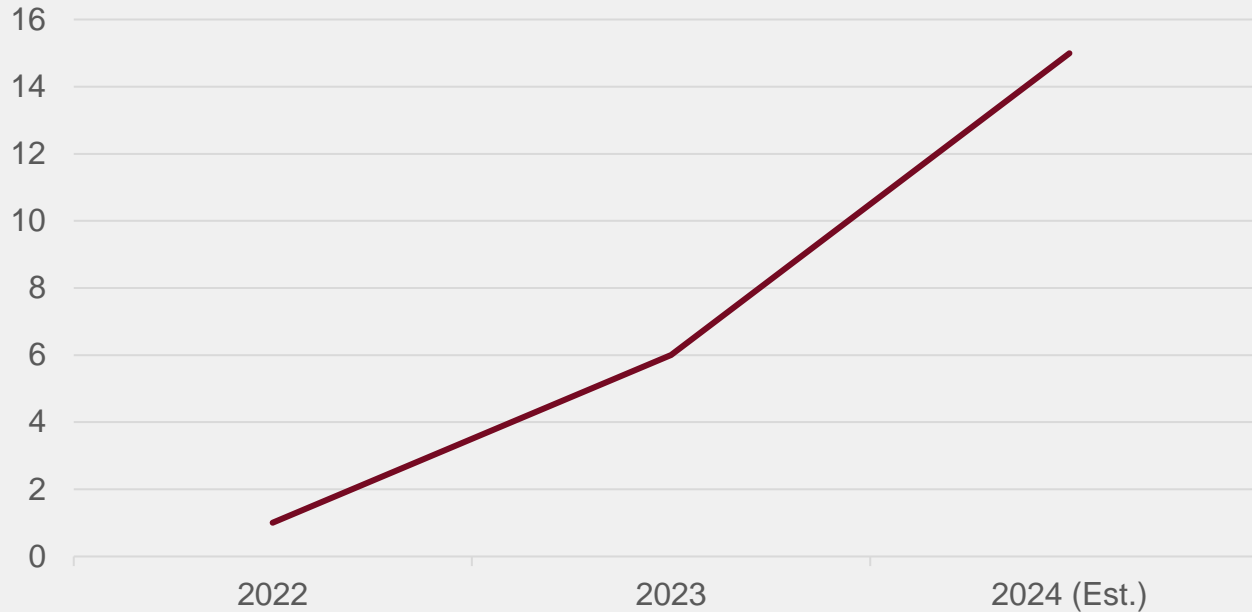
The global security scheme for SIM production and subscription management suppliers that builds industry-wide trust, to protect customers.

eSIM Discovery

Adopt the industry-standard, universally recognised method for fully digital remote eSIM provisioning, allowing customers to activate their eSIM devices more quickly and easily.

eUICC Security Assurance

Cumulative Certificates Issuance

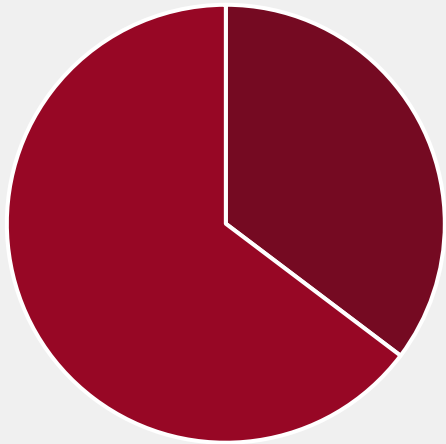


**The choice by eUICC
manufacturer to
review software**

Source: GSMA eUICC Security Assurance,
June 2024

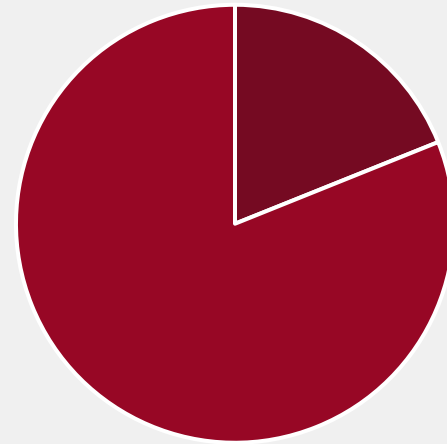
SAS – ensure secure production and operation

SAS-UP Sites



■ Greater China ■ RoW

SAS-SM Sites



■ Greater China ■ RoW

Source: GSMA SAS, June 2024

Streamline eSIM Activation with eSIM Discovery

12

eSIM Discovery
Providers

50+

MNO Account from
30+ countries

240+

Device Models from
40 OEMs

130M+

unique devices since
2020

Source: GSMA eSIM Discovery, June 2024

Streamline eSIM Activation with eSIM Discovery

1GLOBAL

Eastcom Peace

Giesecke+Devrient

Idemia

Invigo

Kigen

Linksfield

Redtea Mobile

Teal Communications

Thales

Workz

XH Smart Tech

Get in touch



Chris Li
Product Director



Edward Wong
Outreach Director

Shape tomorrow with AI, Uni-communication via eSIM

AI构建未来, eSIM联通无限

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RedteaMobile



华大电子

Speaker



Chen Fengwei,

Deputy General Manager

Unicom VSENS Communications Co., Ltd.

陈丰伟 联通华盛通信有限公司 副总经理

Speaker



John Zou,

EVP of

Tongxin Microelectronics Co., Ltd.

邹重人 紫光同芯微电子有限公司 常务副总裁



AI构建未来 eSIM联通无限

陈丰伟

中国联通 2024年6月



无AI 不终端

用AI把智能终端重新做一遍

终端的AI AI的终端



三星
Galaxy AI功能



苹果智能
Apple Intelligence的套件



华为
HarmonyOS NEXT鸿蒙星河版
与盘古大模型5.0



三星“智能戒指”
戒指形态的健康追踪可穿戴设备



AI Pin
颠覆传统、无需屏幕的可穿戴设备



Rabbit R1
陪伴性质的AI伴侣



无蜂窝 不AI

“失网” 就是 “失智”

AI对连接需求极大增强

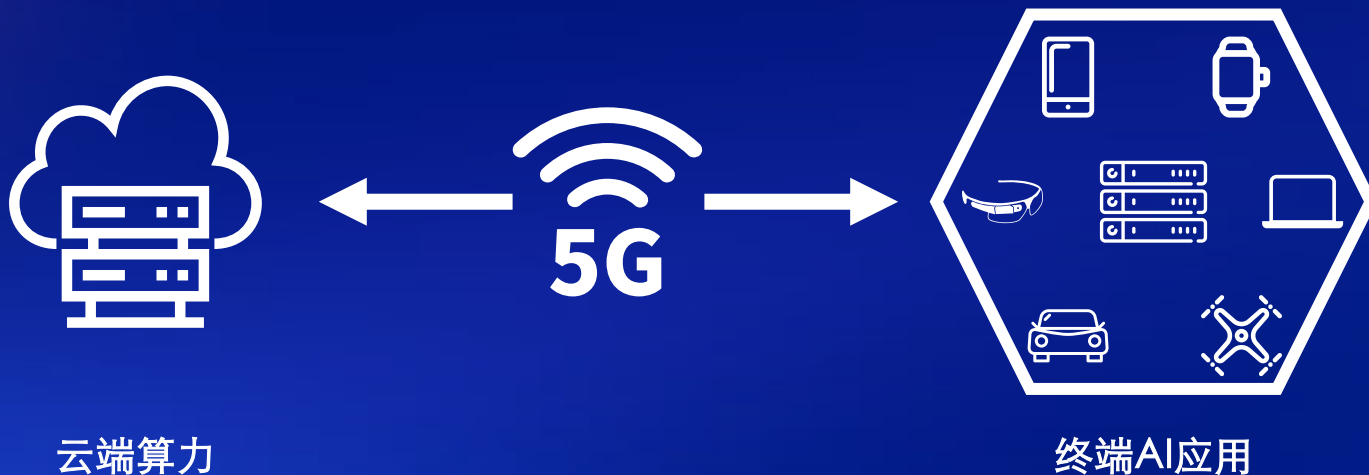


云端大模型
(算力与端侧)



本地大模型
(端侧与交互实现)

5G是实现全时连接的基本保障





无eSIM 不蜂窝

终端卡槽“终有一别”

eSIM是发展趋势

终端产业

节省成本 — 全球产品版本一致

形态精致 — 集成度更高

实现领先 — eSIM国际趋势

用户

节省时间 — “空中发卡”全新体验

安全保障 — 网络级加密、定位

自由选择 — 开关、换号方便

联通是国内eSIM最全应用领域资质的运营商



可穿戴

2018年首发一号双
70余款可穿戴产品
手表、智能眼镜、手机壳



平板和PC

2023.10 eSIM iPad 10
2024.5 eSIM iPad air、iPad Pro



物联网

自研CPE、定位器
电力、无人机、汽车

联通eSIM管理体系保障业务行稳致远

eSIM管理平台

首个自研DP+平台

消费电子 SGP.22 V 2.5

IoT SGP.32 V 1.0

CA安全证书

官方认可

证书互认

一个证书通全国

eUICC管理

供应商评审

安全保障协议

eUICC测试

eSIM终端管理

终端测试

业务调试

功能验证

eSIM业务管理

业务受理流程

符合安全要求

流程持续优化

中国联通eSIM产业合作计划

技术支持

- eSIM LPA
开源方案
- 解决方案

合作对接

- 一站式对接
- 优先入库

专属支持

- 资费政策
- 万店营销

共建eSIM产业生态 共赢终端行业未来

终端

芯片模组

eUICC



oppo

SAMSUNG



vivo

HONOR

1+ ONEPLUS

MONTBLANC

Qualcomm



QUECTEL

FIBOCOM

MEDIATEK
everyday genius

鼎桥
TDTECH



Giesecke+Devrient
Creating Confidence

THALES
Building a future we can all trust

东信和平
EASTLUMPEALE

恒宝股份
HENGBAO CO., LTD.

北京华弘



eSIM+AI

珠联璧合，天生一对



向新同行 共创智能新时代

中国联通合作伙伴大会欢迎您

2024年7月19-20日 上海



AI构建未来，eSIM联通无限

—— TMC全球商用创新方案与最佳实践
TMC, a global practitioner of commercial innovation
solutions and best practices

We are TongxinMicro from China.

**源于
清华大学**

From Tsinghua
University

**eSIM
一芯通全球**

One Chip One World

**适配全球移动终端的
eSIM解决方案已实
现商用**

The eSIM solution tailored for
global mobile devices has been
launched commercially



更自由，更安全

More Freedom, More Security



中国联通
China unicom

紫光同芯
TONGXIN MICRO

**国产智联
双元跃迁**

AI & eSIM

**一体两翼
缺一不可**

eSIM & 安全应用
eSIM&Security application

**安全能力
与生俱来**

国产eSIM
Domestic eSIM

**安全护航
智联世界**

适配全球移动
终端的eSIM
eSIM adapted global
Terminals

TMC eSIM全球商用

TMC eSIM for Global Commercial Use



eSIM WLCSP封装 国内率先商用

First commercial use of eSIM
WLCSP package in China

GSMA SAS-UP Wafer个人化国内 率先商用

First commercial use of Wafer
perso in China



全球多国覆盖 Covering multiple MNOs worldwide

支持多网络制式 Support Multiple Network Types

TMC eSIM解决方案在移动终端设备上全球商用

The TMC eSIM solution is globally commercially available on mobile terminal devices.

2024国产eSIM全球商用元年

2024 marks the first year of global commercial use of domestically produced eSIMs

全球商用难点

Challenges in Global Commercial Use



海外运营商覆盖 MNOs Coverage in Oversea

·SM-DP+非标准协议·
·运营商更新Profile·

终端适配 Terminals Adaptation

·不同终端操作系统·
·不同LPA版本·

WLCSP封装 WLCSP Package

·生产流程控制·
·可靠性·

个性化需求 Customized Requirements

·定制eID·
·预制profile管理·
·eSIM COS更新·

产品
Product

18个月
18 Months

商用
Commercial Use

持续创新

Continuous Innovations



单卡双待

MEP



eSIM+超级SIM

eSIM+Super SIM



AI终端安全保障

Security guarantee for
AI Terminals



eSIM更新管理

eSIM Update
Management



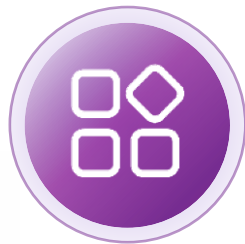
产品质量提升

Improving Product
Quality



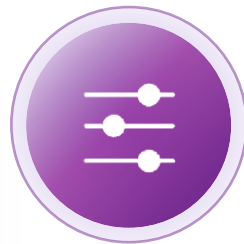
产品创新方案

Innovative Schemes



拓展使用场景

Expanding Scenarios
of Use



推进试点进程

Advancing the Pilot
Process





THANKS

科技之光照亮幸福生活

THE LIGHT OF SCIENCE AND TECHNOLOGY BRIGHTENS HUMAN LIFE



Panellist Discussion

嘉宾讨论

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华大电子

Speaker



Guo Lin,
Vice Director,
CAICT CTTL-Terminals

郭琳 中国信通院泰尔终端实验室副主任

Speaker



Chen Fengwei,
Deputy General Manager

Unicom VSENS Communications Co., Ltd.

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Speaker



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邹重人 紫光同芯微电子有限公司
常务副总裁

CaaS 2.0: Ubiquitous Connectivity and its Implications for Made-in-China.

泛在连接：赋能中国制造出海

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RedteaMobile



华大电子

Speaker



Dr. Jin Hui,
CEO & Co-founder,
Redtea Mobile

金辉 博士 红茶移动CEO兼联合创始人

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GSMA

GSMA

Hosted @
MWC
SHANGHAI

eSIM Summit

A New Era of Innovation

MWC Shanghai | 28 June | 10am CST

Platinum Sponsor



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泛在连接：赋能中国制造出海

CaaS 2.0: Ubiquitous Connectivity and its Implications for Made-in-China

金辉 博士

Hui Jin, Ph.D.

CEO & Co-founder, Redtea Mobile

5 years, 「CaaS 1.0」 >> 「CaaS 2.0」



2019

- *CaaS 1.0 - Connectivity as a Service (CaaS) - the Next Paradigm*

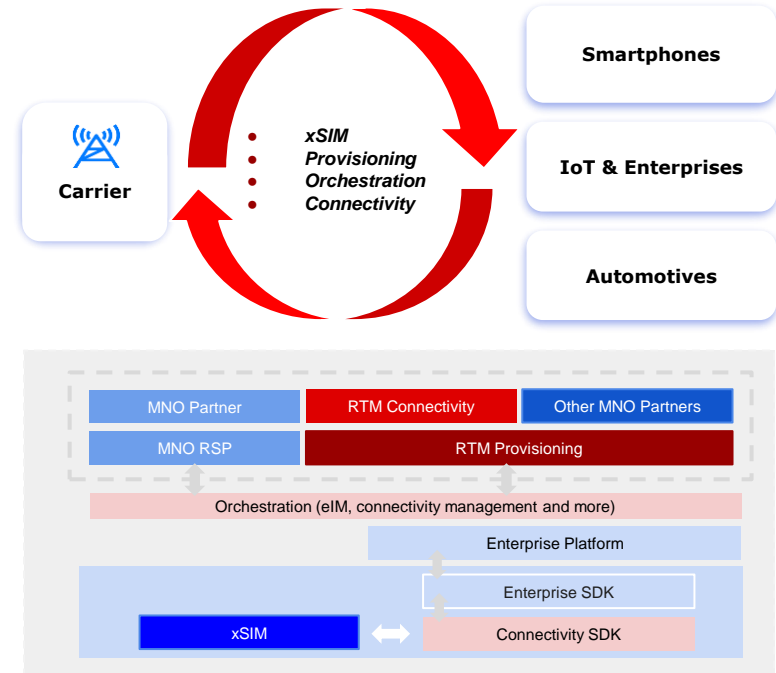
2024

- *CaaS 2.0 - Ubiquitous Connectivity and its Implications for made-in-China.*

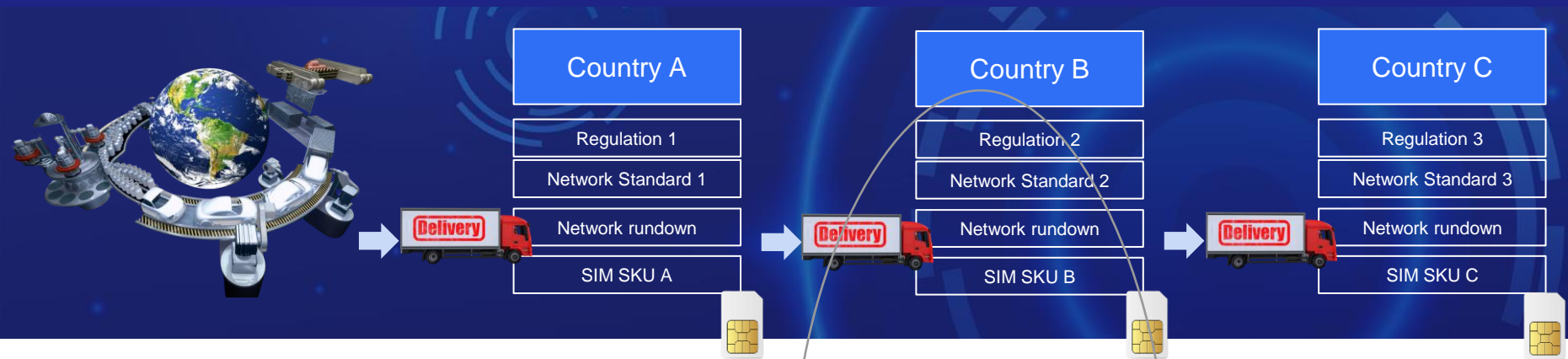
eSIM: Goes *Beyond Connectivity*.



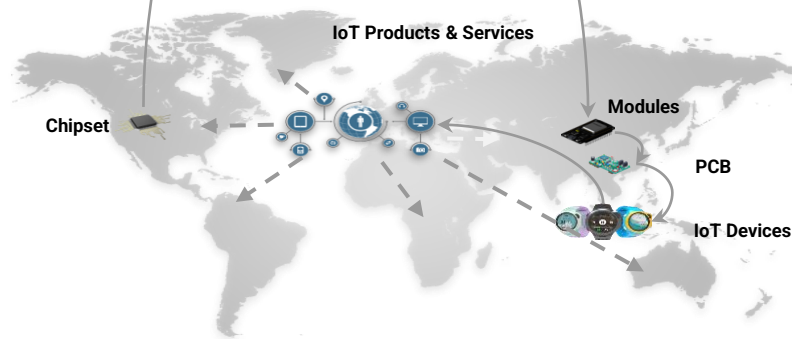
- ❑ Connectivity still dominates the revenue but with a balanced structure.
- ❑ Highlights,
 - ❑ End-to-End.
 - ❑ Future-Proof: SGP.31/.32
 - ❑ Open: Bring Your Own Connectivity.
 - ❑ Portable.



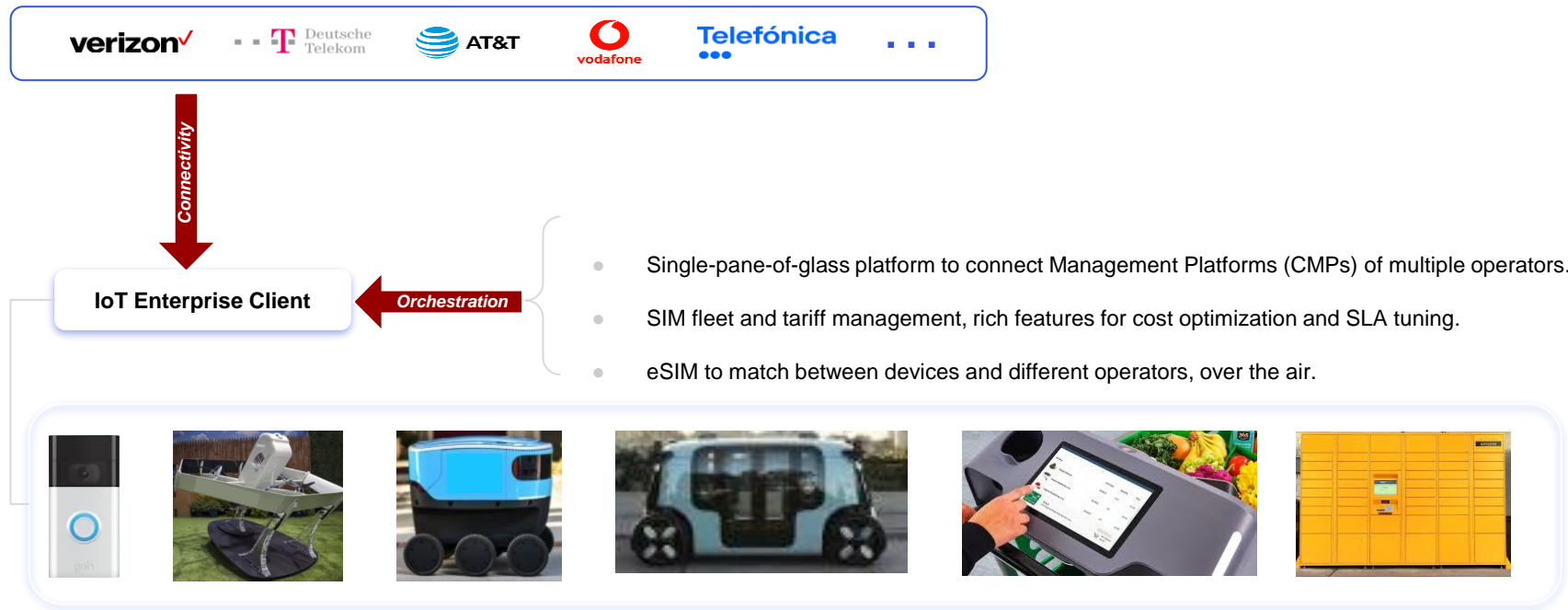
Challenges with Enterprise IoT.



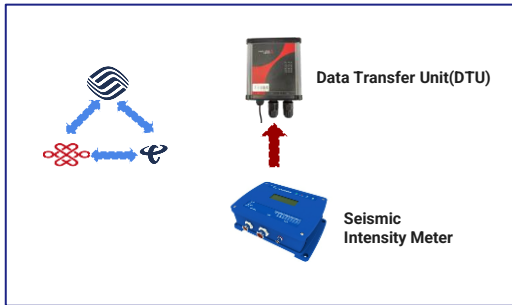
- ❑ Global & Local Coverage.
- ❑ Regulation Issue.
- ❑ Complex Supply Chain.
- ❑ SLA.



Use Case: Massive Deployment of Enterprise IoT.



Use Case: Digital Transformation of Critical Infrastructures.

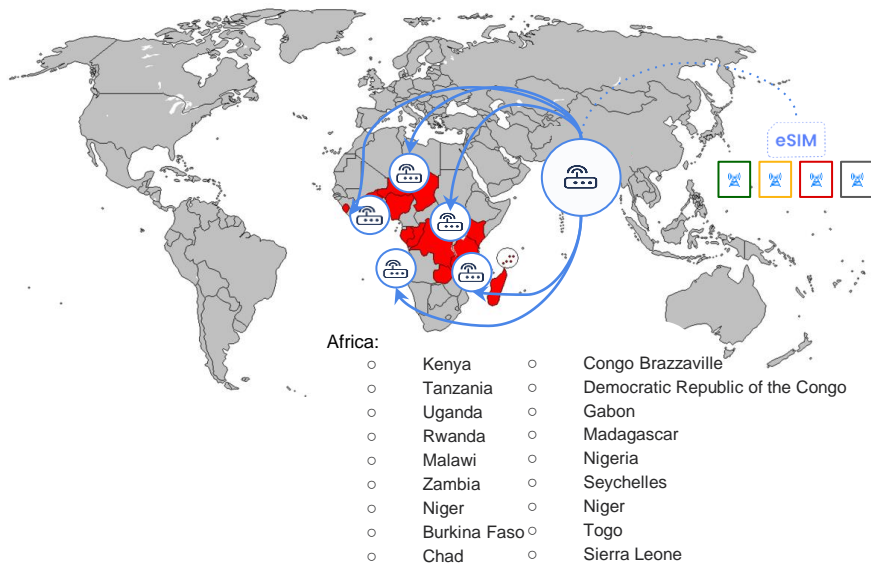


Redtea Deliverables,

- ❑ Connectivity: Consolidation of 3 operators.
- ❑ Orchestration: Automatic operator switching for reliability.
- ❑ xSIM: Special-purpose DTU with eSIM.

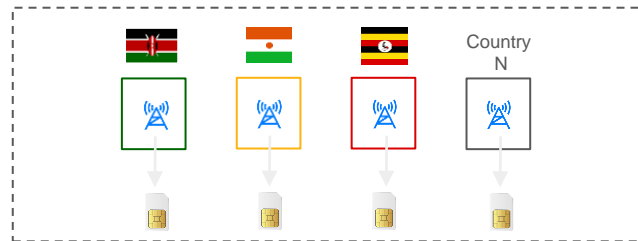
Use Case: Single SKU for Cross-Country FWA.

▶ SIM manufacturing >> ▶ mno selection >> ▶ global distribution >> ▶ delivery >> ▶ value-added service



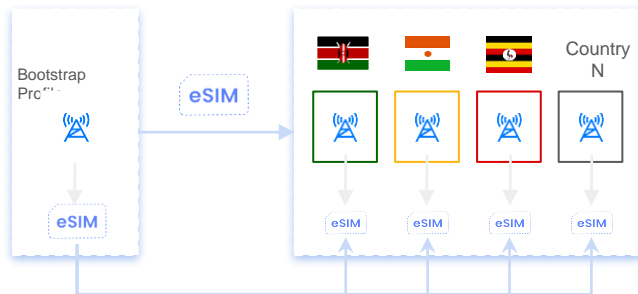
Legacy

*multiple
skus*



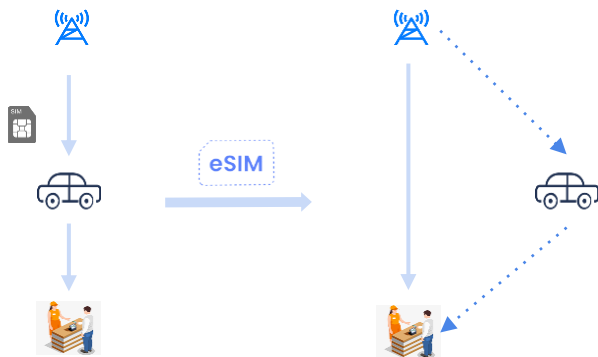
eSIM

*one
single
sku*

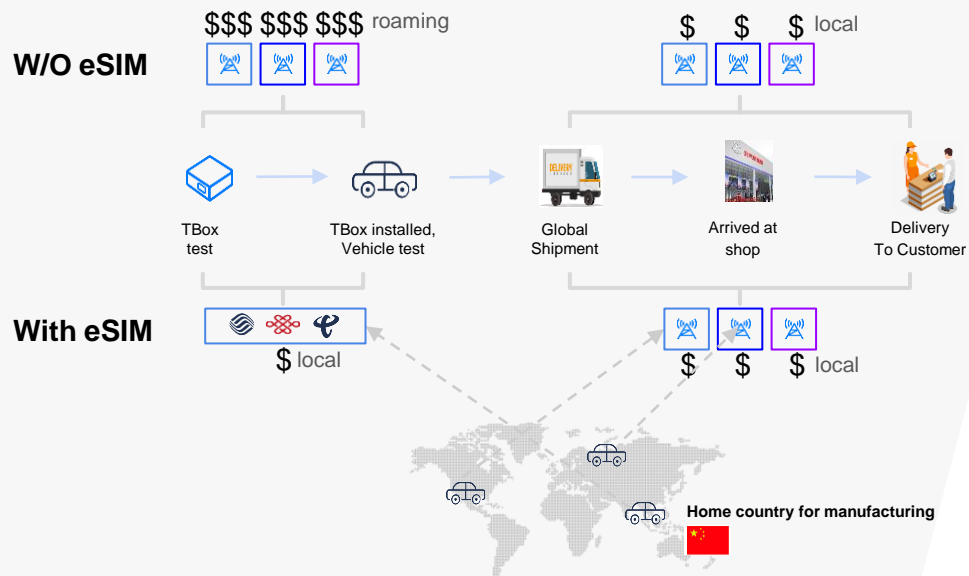


Use Case: Automotive Industry.

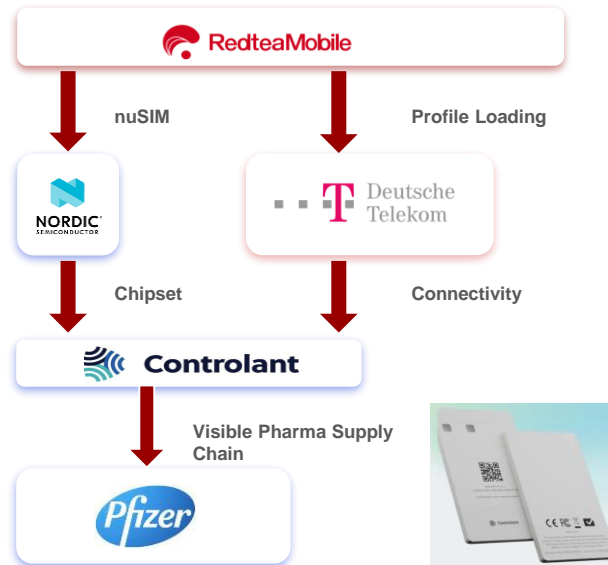
New Business Model with eSIM.



Productivity & Compliance with eSIM.



Use Case: iSIM(nuSIM) for Pharma Supply Chain.

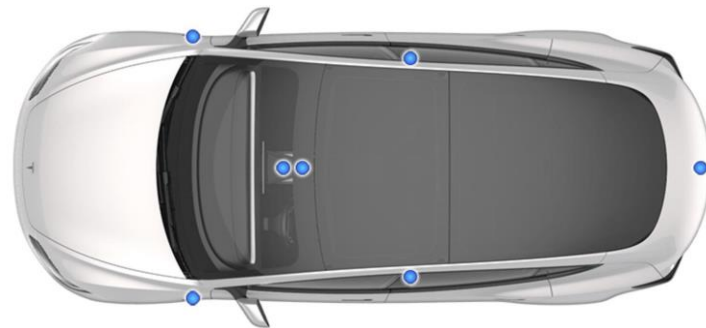
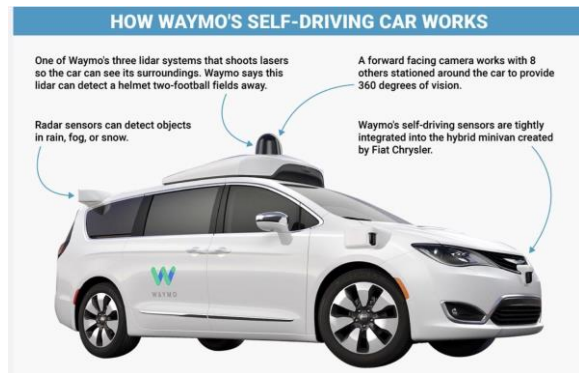


Redtea Deliverables,

- Integrated SIM with Nordic as the core component of the Saga card device.
- Provisioning platform for DT.

Inspiration from FSD : Sunk Cost as the Key.

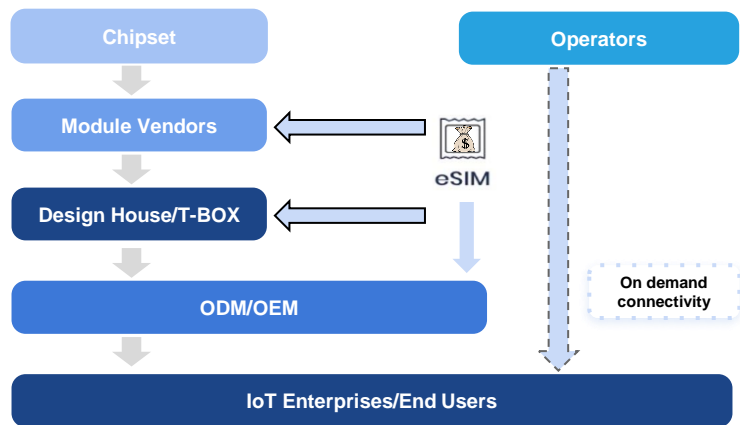
- ***Sunk Cost: The key factor for a product/service to scale out in a ubiquitous manner.***



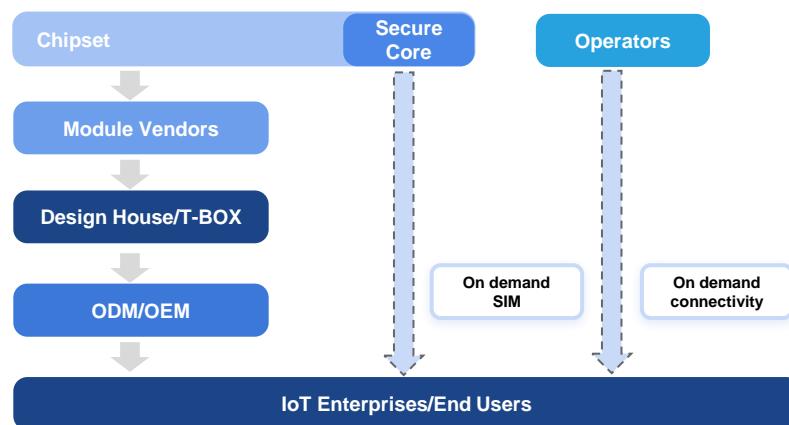
Lower Sunk Cost



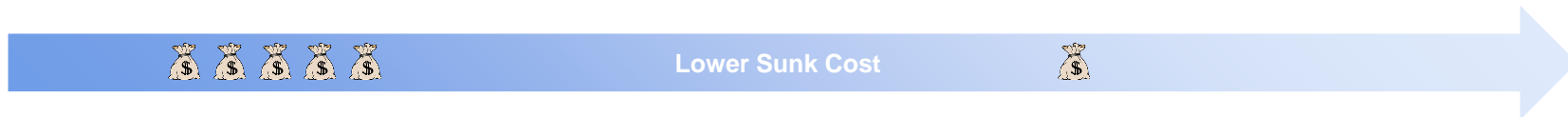
CaaS 2.0: Towards Ubiquitous Connectivity.



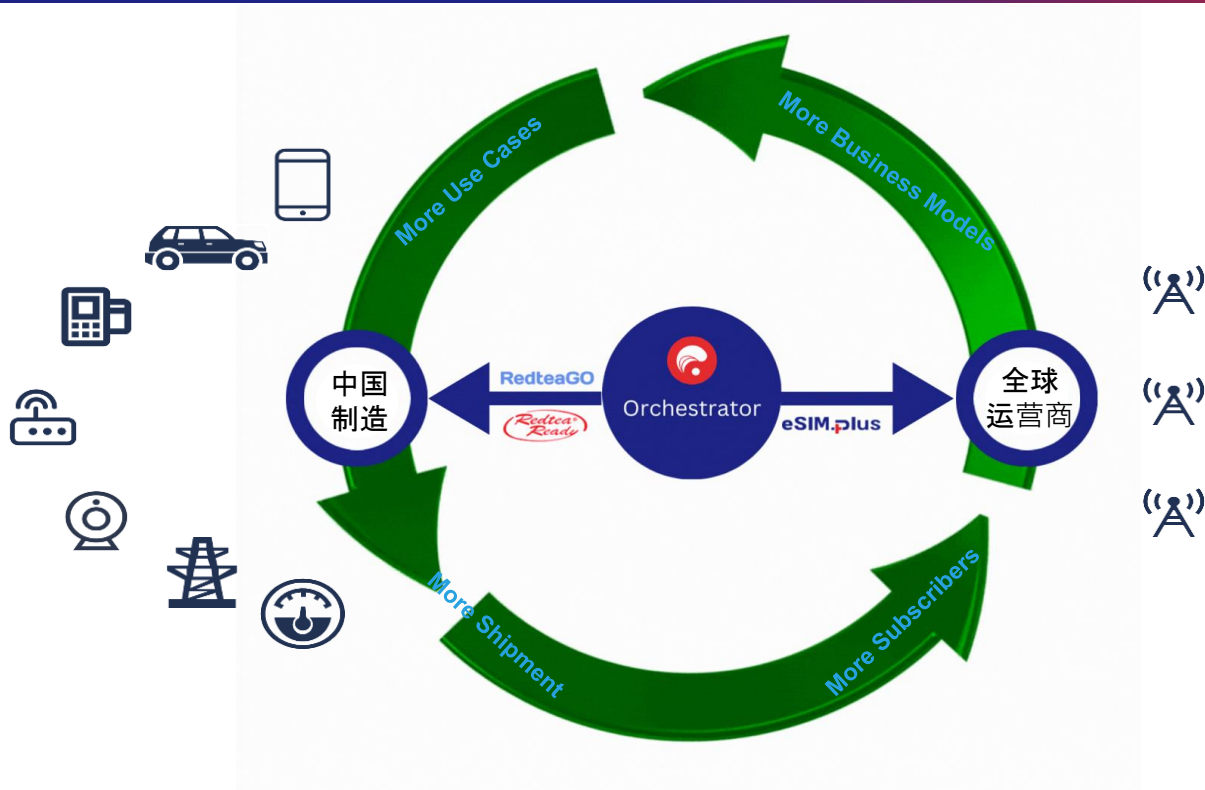
CaaS 1.0: On demand Connectivity



CaaS 2.0: On demand SIM & Connectivity



Global Connectivity Orchestrator: 点亮数字中国出海.



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华大电子

Speaker



Dan Li,

Marketing director of

HED

李旦 华大电子市场总监

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eSIM: 引领移动通信“芯”未来

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李旦/Nadeel Lee

华大电子 – 中国安全芯片龙头企业

HED – China's leading Security Chip supplier



SIM芯片累计出货量超180亿颗;

SIM chip shipment > 18 billion



首家超级SIM芯片供应商

累计出货量超1亿颗;

First SWP-SIM chip supplier, Shipment > 100 million



eSIM芯片覆盖消费级/工业级/车规级

累计出货量超过10亿颗;

Consumer/Industrial/Automotive grade

shipment > 1 billion

HED

00085.HK

CEC Group

TOP3

Global SIM/eSIM IC Supplier

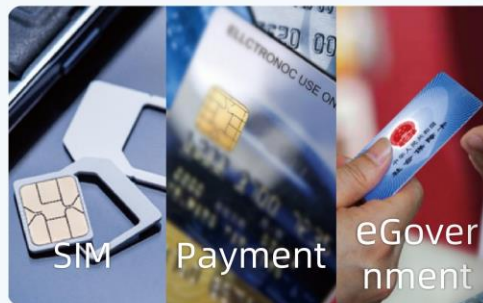
25 Billion

Shipment

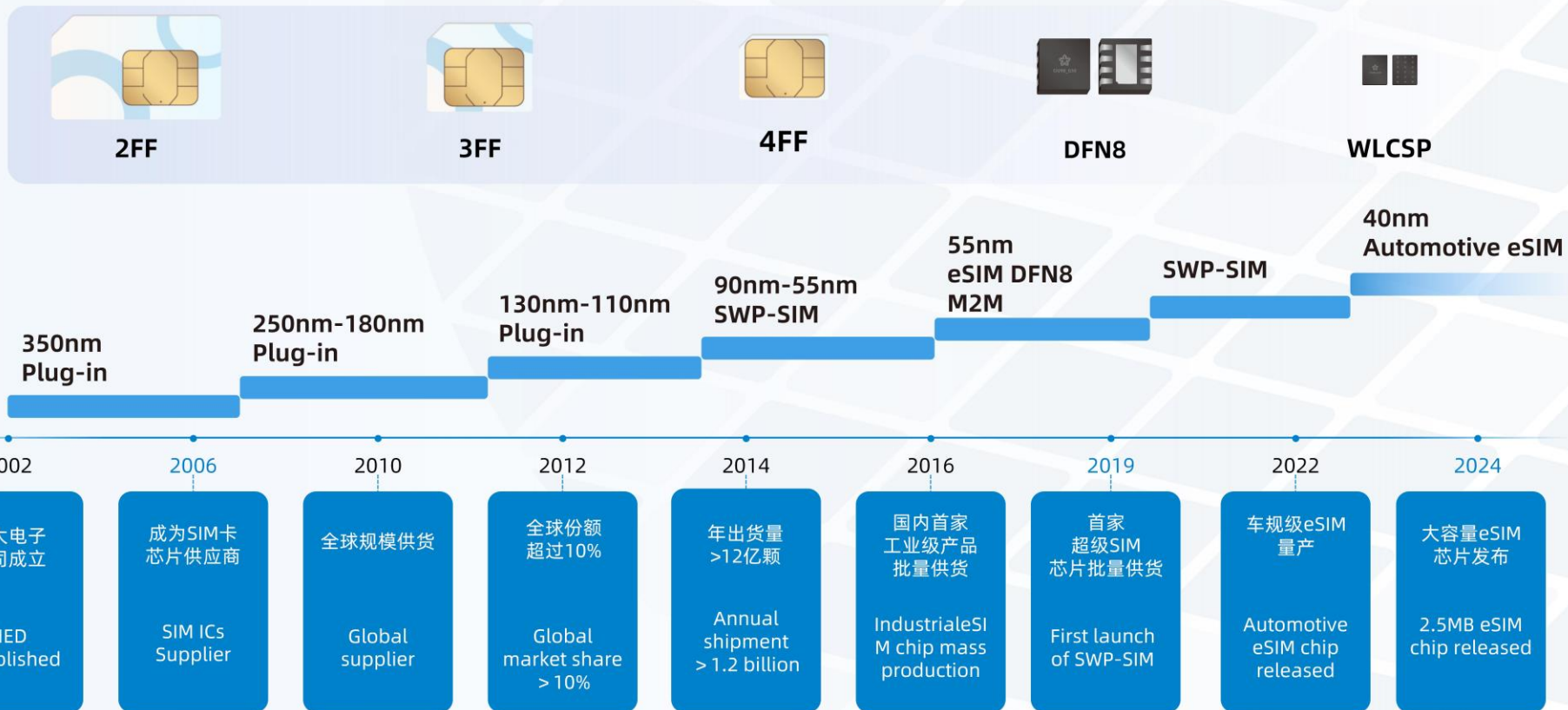
2.7 Billion

Revenue in RMB

HED Offering



SIM Evolution



HED's eSIM Offering

	Consumer	IoT
HW	eSIM IC for Consumer up to 2.5MB NVM Consumer Grade	eSIM IC for IoT up to 700kB NVM Industrial Grade
OS	Consumer SGP.22 v2.5&v3.1 GSMA compliant	Consumer & IoT SGP.22 v2.2 & SGP.32 v1.1 GSMA compliant
Package	WLCSP	DFN8(MFF2, DFN8 3*3)
Personalisation	Perso on wafer SAS-UP site	Perso on package SAS-UP site
LPA	LPAd reference	LPAd/IPA reference

HED's new eSIM Chip

国内首款“最大容量、工艺最先进”安全芯片

China's first maximum capacity security chip with 40nm eFlash processing

2.5MB eFLASH

15+ profiles

OS Update

High Capacity

CPU 120MHz

ALG performance X 3

High Performance

CC EAL6+

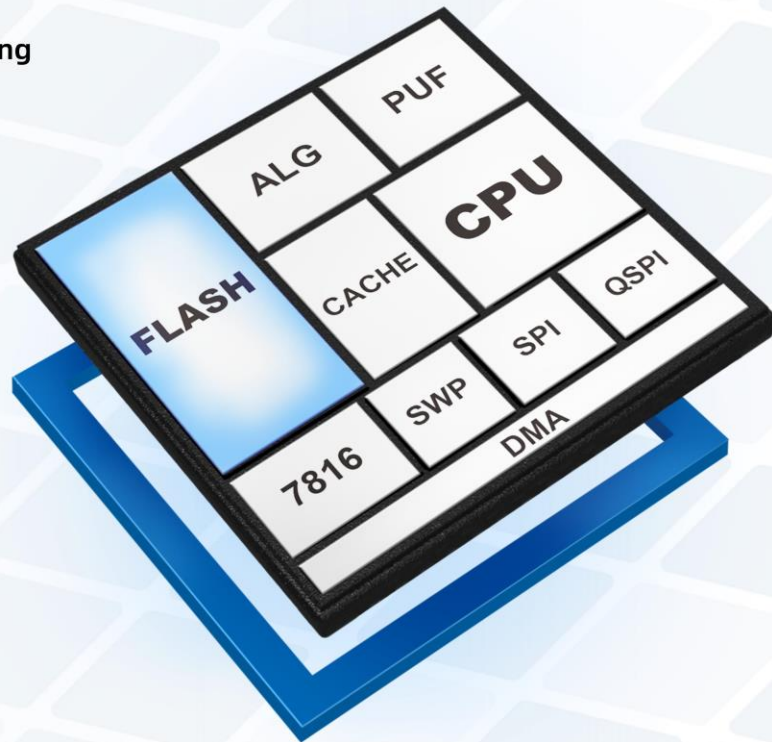
PUF

High Security

WLCSP

Perso on Wafer

Small package



HED's eSIM Solution

HED提供eSIM整体解决方案
HED Provides eSIM total solution



采用最先进的eSIM

安全芯片
Advanced
eSIM chip



支持最新功能特性

多个码号同时激活成为可能
Newest features E.g MEP



全球运营商平台互操作

覆盖全球200+运营商
200+ MNOs interoperability



支持多运营商配置

15+ profile
multiple network
operator profiles



符合GSMA最新
RSP技术规范

GSMA compliant OS

符合GSMA产品认证

GSMA eSA certified

GSMA™



HED eSIM Advantages

LARGER 更大空间，更多可能

- Larger free user memory
- **15+** SIM profiles
- OS Update
- Multiple SIM profiles(MEP)
- Multiple applications

SMALLER 更小尺寸，更加灵活

- Small WLCSP packaging
- **94%** less space than a physical card

FASTER 更快速度，更强体验

- Profile download speeds up to **5x** faster
- Profile local management speeds up to **6x** faster

eSIM Benefits



For End User:

Easier to switch networks

灵活切换运营商



For OEM:

Improve Reliability

Water&Temperature-Resistant

抵御恶劣环境影响，易于做结构防水

Improve device flexibility

Reduce space for better device design

更大的设备灵活性，减小空间，利于设备设计



广泛普及与应用
Widely applied



设备设计与创新
Device innovation



物联网连接简化
Simplified IoT connectivity

Imagine the Future



Thank you

Welcome to Hall N1

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