



CAMARA

THE TELCO GLOBAL API ALLIANCE

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T-Mobile, CAMARA



5G network capabilities: Network as a platform



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The on-demand, secure and controlled exposure of network capabilities pave the way for transforming operator networks into service enablement platforms, facilitating the application-to-network integration, which will be key to deliver enhanced and service-tailored customer experience in the 5G era.

Potential Business Use Cases



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Fraud



Secure Auth

Fraud Prevention

Number Verify,
Sim Swap, etc.

Location



Location Verification
Location Retrieval
Location Geofencing

Location APIs

Video Production



Live Video Production
Video Production
Video Broadcasting

Quality on Demand,
Slicing APIs



Network APIs offer the opportunity

- For customers to optimize their use cases and applications
- For operators to monetize their invest in 5G infrastructure

It's a win-win!

APIs enabling seamless access to Telco network capabilities



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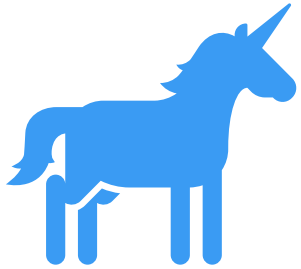
CAMARA mission

Telco network capabilities exposed through APIs provide a large benefit for customers. By simplifying telco network complexity with APIs and making the APIs available across telco networks and countries, CAMARA enables easy and seamless access.

CAMARA attempts to solve key challenges for API availability and quality



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Scale

Developers dream of being the next unicorn... If apps, products, or services are built on our APIs they want them in all relevant markets and networks globally.



Consistency

Multi-nationals want consistency across all markets they operate in... they do not want APIs that only work in a single network in a single country. They do not want to try and build for the differences of each network.



Simplicity

Telco networks are complex, and every network is different.... Developers want simple, intent-based APIs.



Accessibility

We go to the developers where they are so the project is open sourced in the Linux Foundation. Allowing API users to work directly with CSPs creating the service.



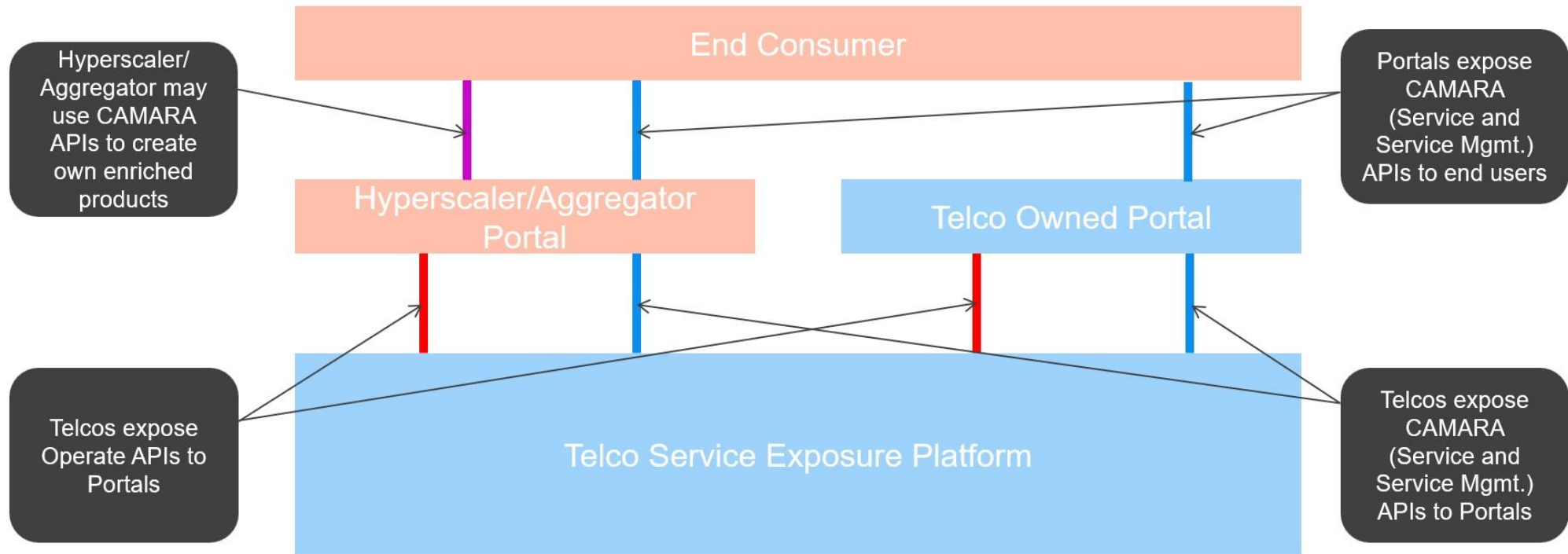
Demand driven

We develop the APIs and design it in the way our customers need it. The demand is collected from organizations like GSMA OPAG but also from customers directly.

CAMARA APIs can enable multiple business models



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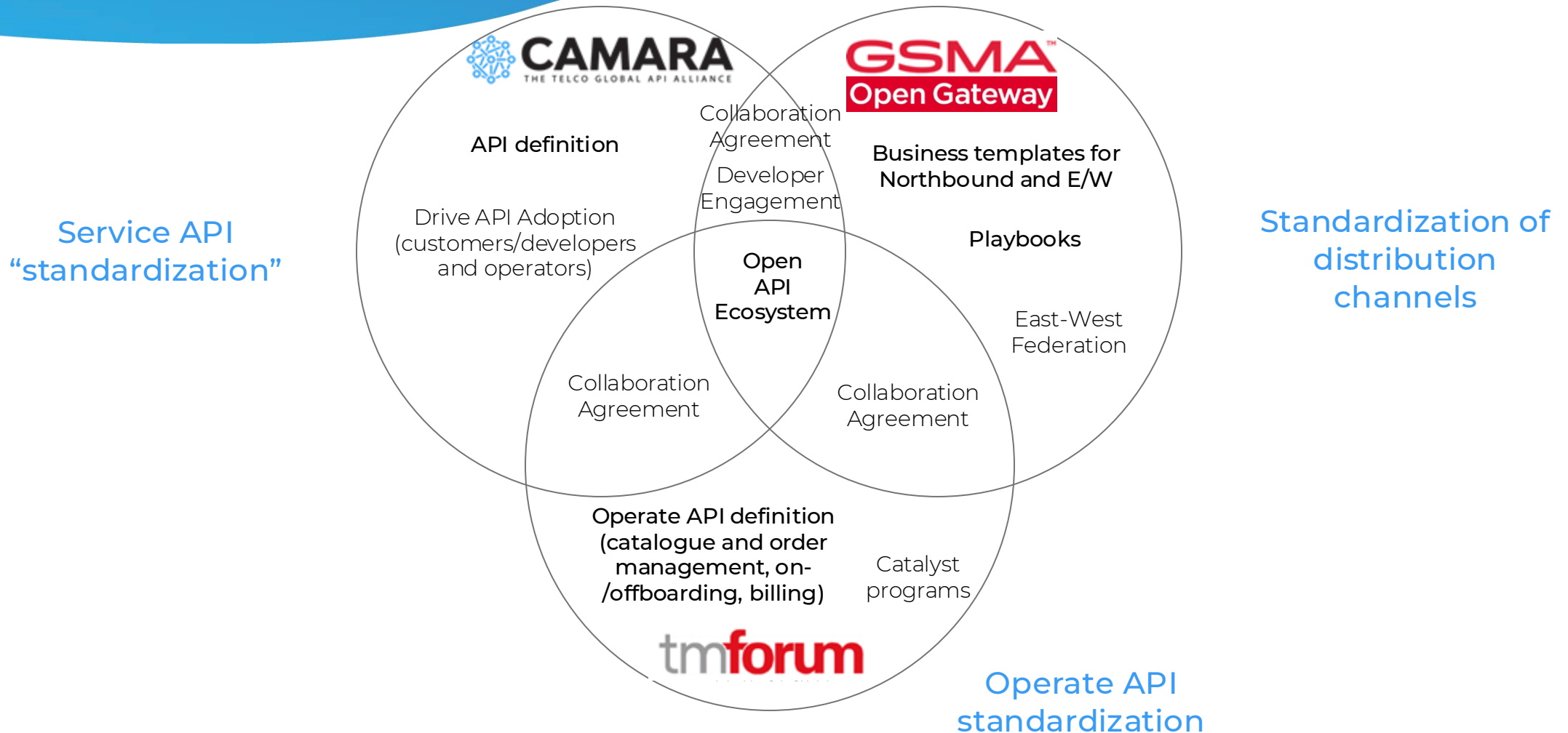


Hyperscalers and aggregators have the possibility to create own enriched products based on the CAMARA APIs and expose that in addition to the CAMARA APIs.

CAMARA – Scope / Collaboration with Open Gateway and TM Forum



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...where we are now



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Members	Premier								General						Associate Membership				
		accenture	T	ERICSSON	Microsoft	NOKIA	orange	T Mobile	T-Mobile	ALEPH ZERO	CableLabs	3E CENTILLION	Charter	INDY	invia	OpenID			
	verizon	vodafone							SCENERA	shabodi									
Participating Organizations	Participating Organizations																		
		TINCE	5GFF	A1	AQ	akross	AM/NTVA	amdocs	ARGELA	AT&T	aws	axiata	ARIATA DIGITAL LABS	BCTI	BearingPoint	bridge alliance	brocade	Cognizant	中国移动
	CISCO	CM	cloudonix	COMB	cognizant	Colony	comviva	CRAMA	CSL	CTHINGSCO	DATAVERSE	DETECON	DOMOS	Drivetti Labs	EANTE	EDGE	EA	ETIYA	EVIDEN
	f5	FUJITSU	GAPRSK	Google Cloud	GSMA	HCL Software	Harvest Partners Enterprise	HKT	HUAWEI	IBM	infobip	INFO LYSIS	Infosys	intel	IPlication	IPSP	Italtel	KDDI	LATENGETECH
	Lenovo	Linux	NETSCAPE	MATREX	MAVENIR	MICROCKS	MOQUEST	nabstract	NETSCAPE	NETCRACKER	NGMN	NOS	NTT DATA	Open Gateway	Optiva	ORACLE			
	VIRTUAL 5G LAB	quobis	Radisys	Red Hat	REPLY	sic	SEKURA	SimpTel	Singtel	SK telecom	SPRY FOX	STARBUCK	SUMMIT	swisscom	syniverse	TCS	TELUS	TIM	
	TruSense	VROMBR	White Cloud	ZTE															

- 118 Named Partners
- 396 (+337*) companies participating in CAMARA
- 26 Active API family Sub Projects with 46 APIs, and 5 Working Groups
- 1128 (+1658*) people joined CAMARA
- Development "home" for GSMA Open Gateway

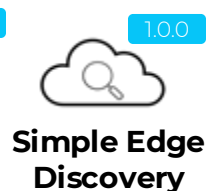
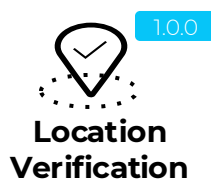
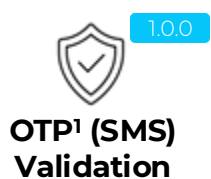
* Number in brackets indicates companies and people who are in contact but haven't joined

Meta-release Fall 2024

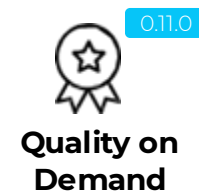
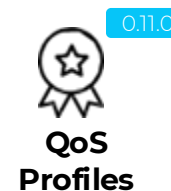
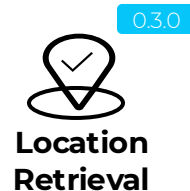
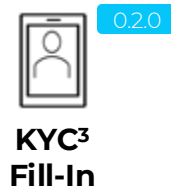
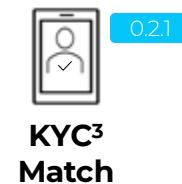
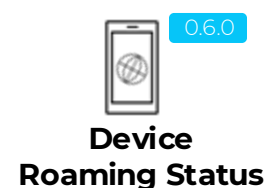
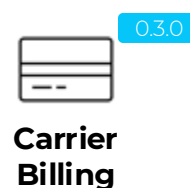


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Stable CAMARA APIs (v1.0.0)
Previous versions launched in at least one market¹



Updated initial CAMARA APIs (v0.y.z)
Previous versions launched in at least one market¹



New initial APIs (v0.y.z)



New initial APIs to subscribe for event notifications in CloudEvents format (v0.y.z)



¹ Source: <https://www.open-gateway.com/operators-map> and <https://wiki.camaraproject.org/display/CAM/Meta-release+Fall24>

² OTP = One Time Password

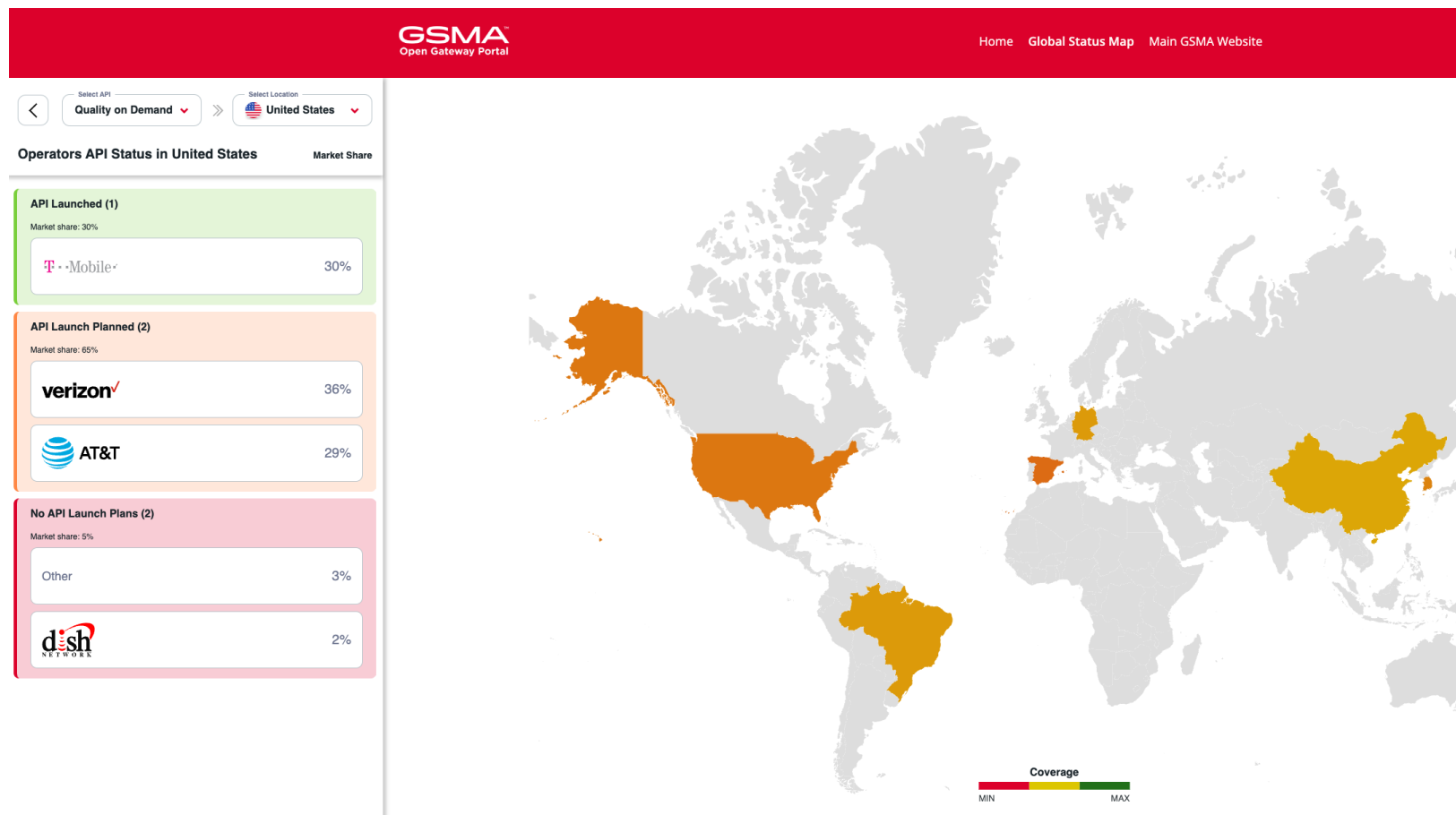
³ KYC = Know Your Customer

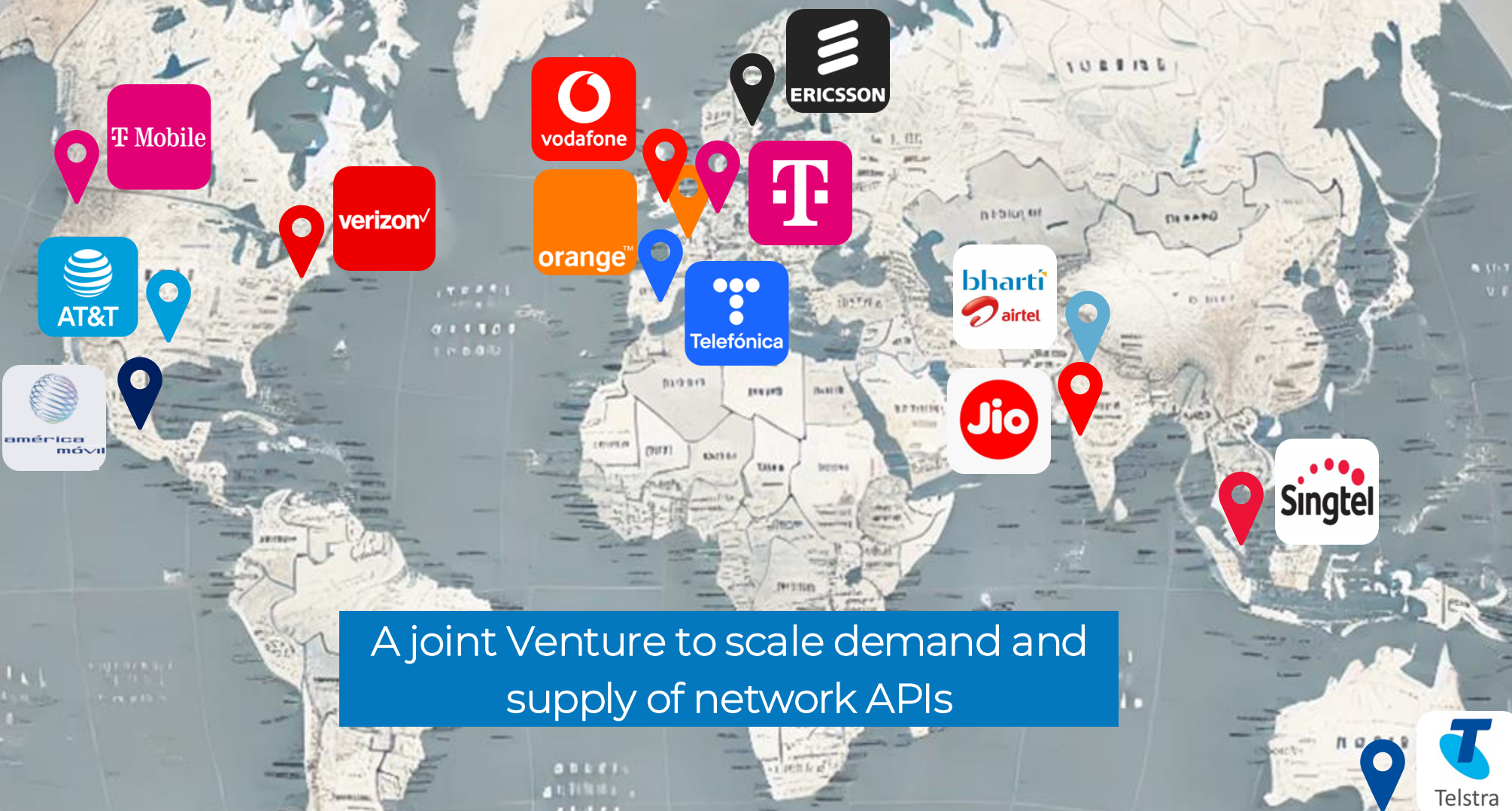
CAMARA / Open Gateway API public launch status



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<https://www.open-gateway.com/operators-map>






A joint Venture to scale demand and supply of network APIs

Benefit for operators to participate in CAMARA



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- 1 Increases usage and value of telco networks by providing easy access to network capabilities.
- 2 Enables developers to create new applications or improve existing ones with access to these capabilities.
- 3 Improve customer experiences in partnership with the solution developer ecosystem



Additional
revenue to
enhance existing
use cases or build
new services

Benefit for Developers to implement CAMARA APIs in their networks

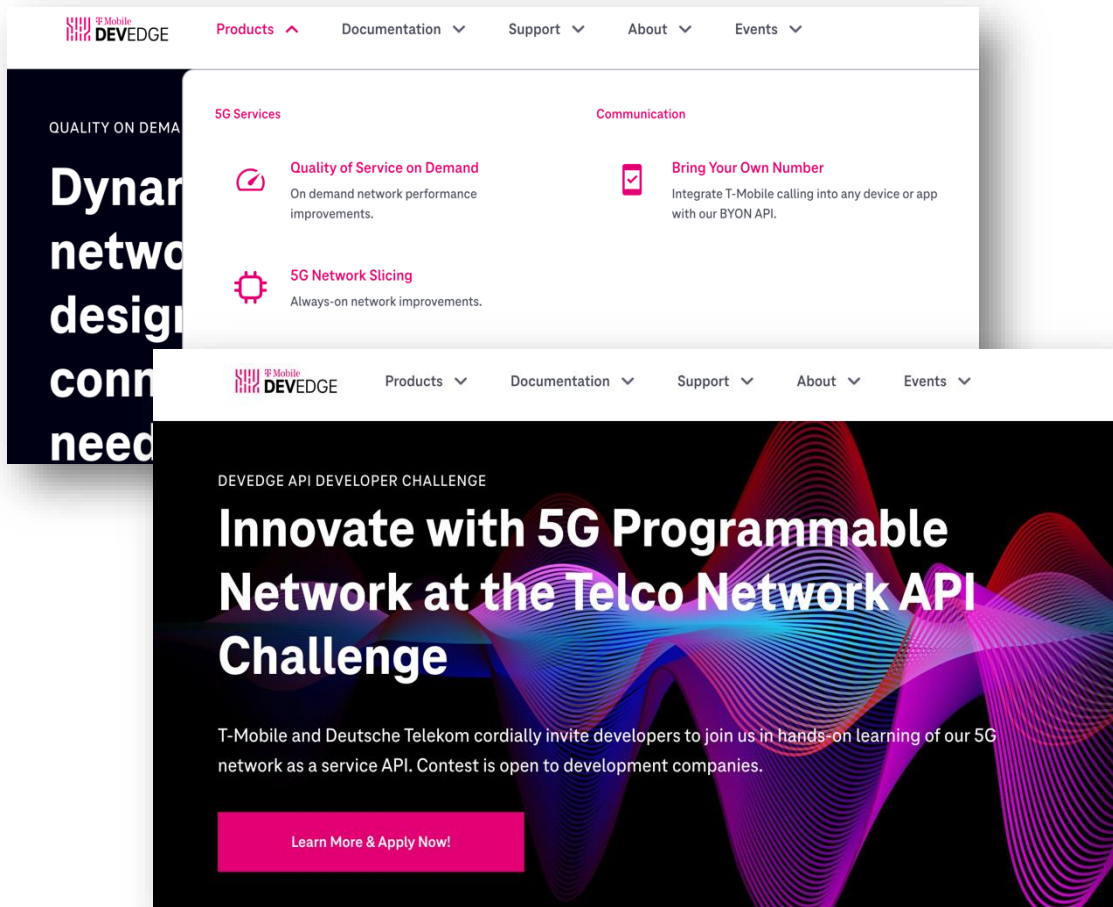


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- 1 Write once and re use it multiple times with a global scale
- 2 Influence the ecosystem to meet your own requirements and market demands
- 3 Enables developers to create new applications or improve existing ones with access to these capabilities.

Build and expand
your solution
portfolio using
network APIs

Our learnings so far



- Manage APIs as products with multiple RTMs and monetization models
- Invest in monetization capabilities digital experiences and programs to achieve scale
- Developers are already in your ecosystem. Engage with them better