



GSMA Operator Platform

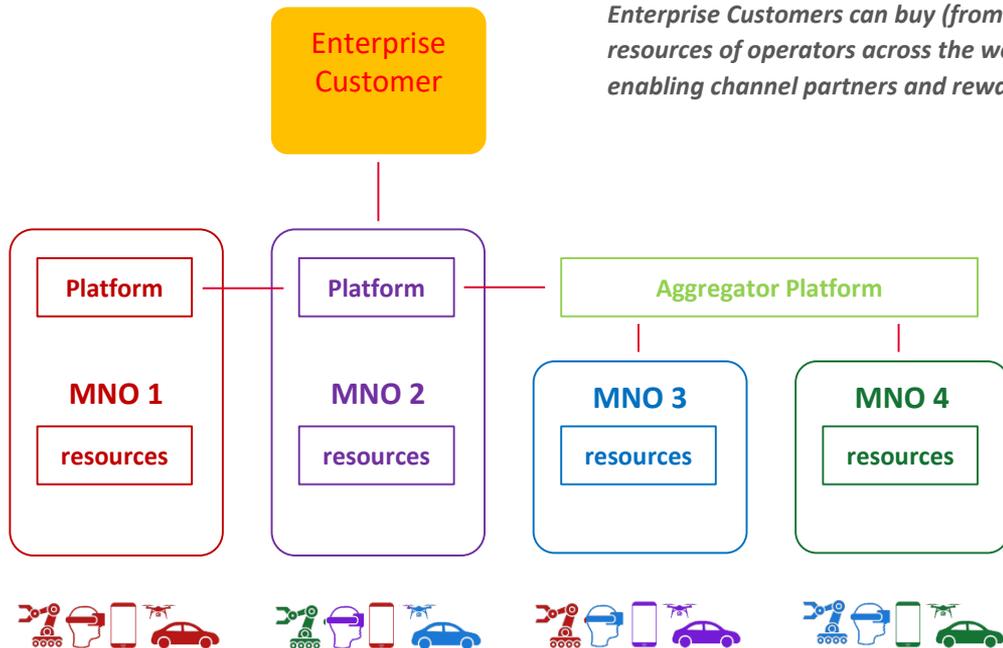
Faisal Zia, Operator Platform Lead, Future Networks

- fzia@gsma.com

The Operator Platform & Telco Edge Cloud are defining the technical and commercial frameworks

to offer a unified global experience for 5G services, initially Edge Computing

Problem Statement: How to establish a commercially feasible and open global system where Enterprise Customers can buy (from a single provider), valuable services (leveraging the network resources of operators across the world), while encouraging healthy competition between providers, enabling channel partners and rewarding all parties involved.



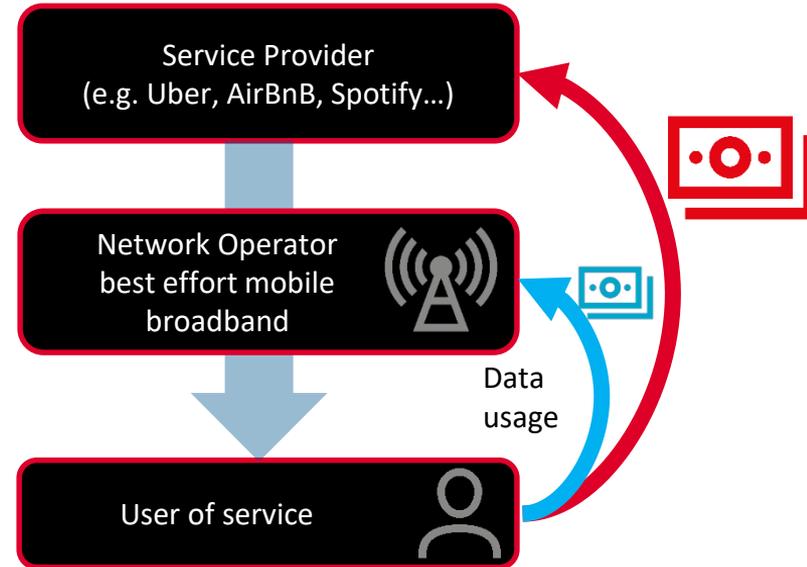
- The Operator Platform Project is defining an open technical framework and requirements
- The TEC Project is exploring commercial frameworks (aggregation / federation / interop) and trials and POCs
- Enables single interface to deploy applications across several operators and supports use cases where devices roam into other MNOs footprints.

Operator Platform – Problem statement

- In 4G the Operator offered best effort mobile broadband connectivity collecting fees from users for data usage
- Consumer services were provided by 3rd parties

In the 5G Era operators can use their 5G capabilities to:

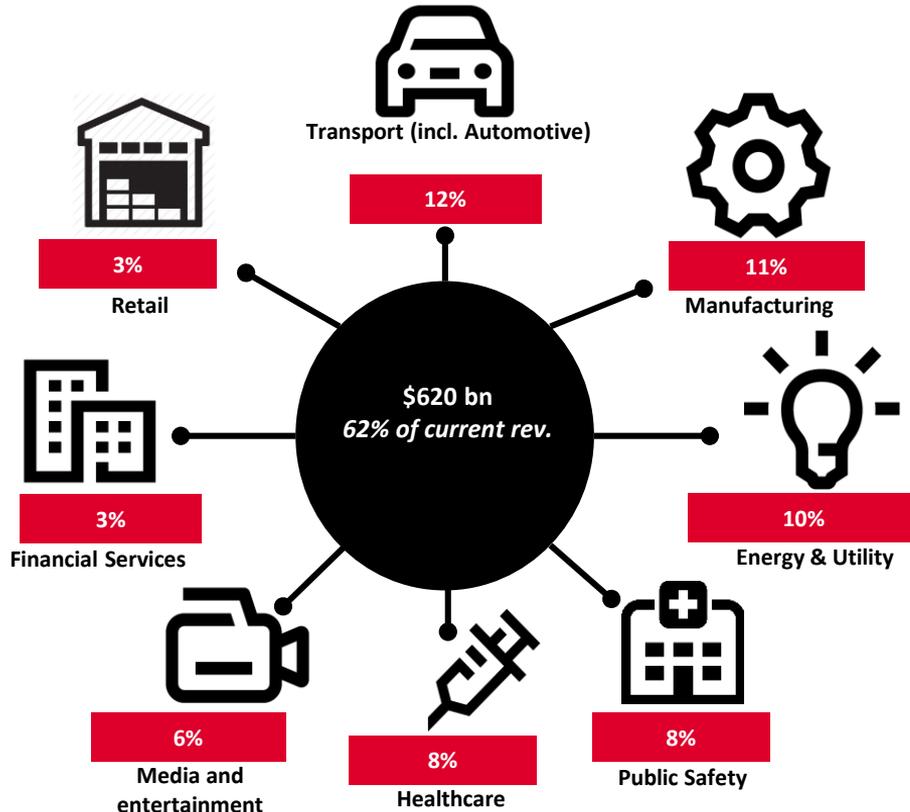
- Provide basic capabilities such as compute storage connectivity (IaaS)
- Package advanced capabilities and open them to 3rd party service developers while participating in the service value chain (PaaS)



Note

In future, Operators will be able to supply consistent interfaces to deliver own Cloud services for Enterprises, or to enhance a hyperscaler's cloud solutions.

Size of the opportunity



Source: GSMA

From providing services to enabling services

- Operators can tap into the \$620bn revenue opportunity from the enterprise segment
- Mix of B2B (about 60%) and B2B2C relationships
 - Public Safety opportunity is mostly B2B
 - Media and entertainment is mostly B2B2C
- Engaging with Enterprise requires a change of mind-set and refresh of business processes
- If Operators do not adapt, the opportunity will be provided by others or developed by themselves (e.g. Ocado)

Operator Platform Concept & Objectives

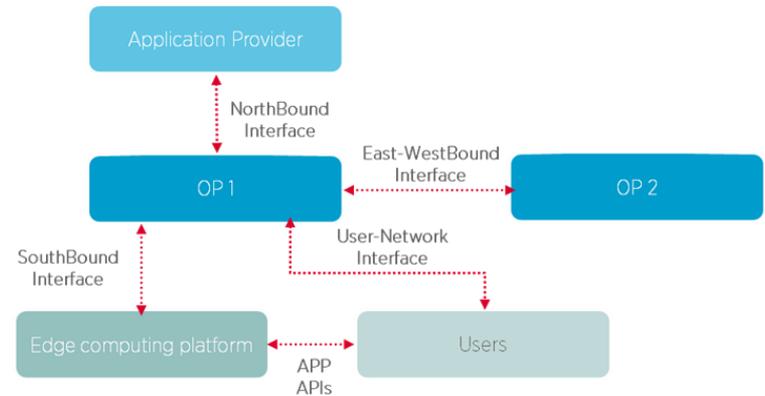
*Guiding all the industry ecosystem – operators, vendors, OEMs and service providers–, to define a common solution for network capabilities exposure. As a first phase, the GSMA document will provide an end-to-end definition and requirements of the operator platform for **edge computing support***

GSMA is defining:

- Operator platform requirements
- Architecture and functional modules

GSMA wants to engage with Standardization and open-source communities

- That will deliver the low-level standard definition of the OP
- That will foster the development and availability of products based on such standard



High-level reference architecture, Source: GSMA

Operator Platform Group wishes to understand which standard and community activities can be re-used and enhanced in order to reach these objectives also important feedback from the developer community

Operator Platform and Telco Edge Cloud

30+ Operators
20+ Vendors



Oct 2020

Operator Platform Group (OPG)

- Architecture, technical requirements
- Liaison with SDOs for technical specs and OSCs for open-source code

Telco Edge Cloud (TEC)

- Commercial, business and contractual models
- PoC and trials

25 Operators



2nd Half 2020

Operator Platform Group (OPG)

Operator Platform Group (OPG)

- Architecture, technical requirements
- Liaison with SDOs for technical specs and OSCs for open source code

30+ Operators

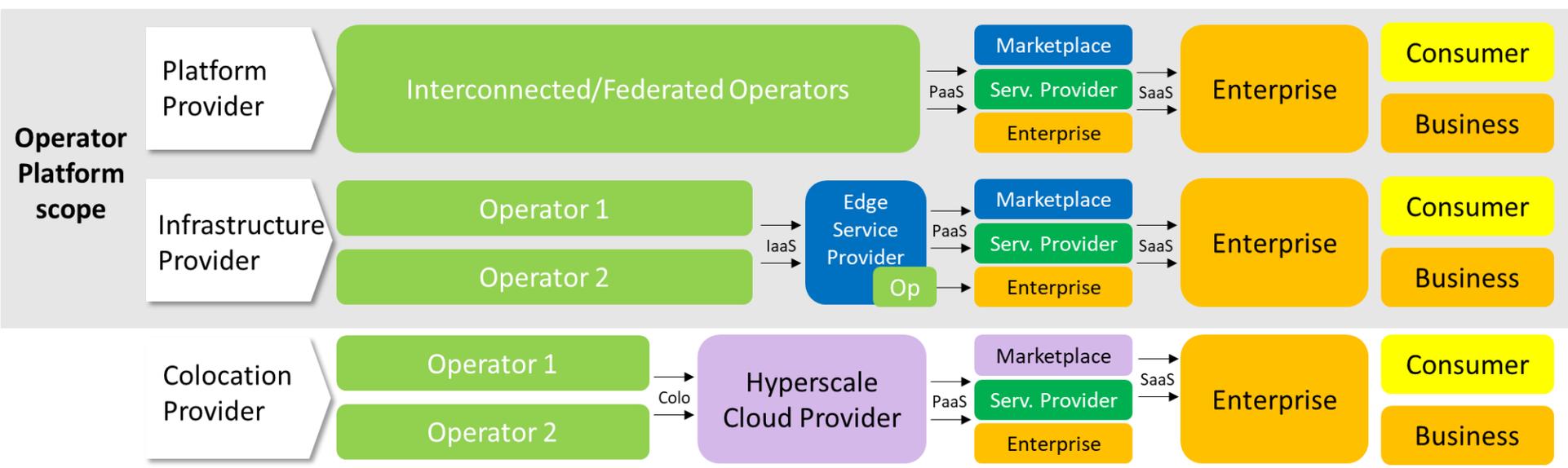
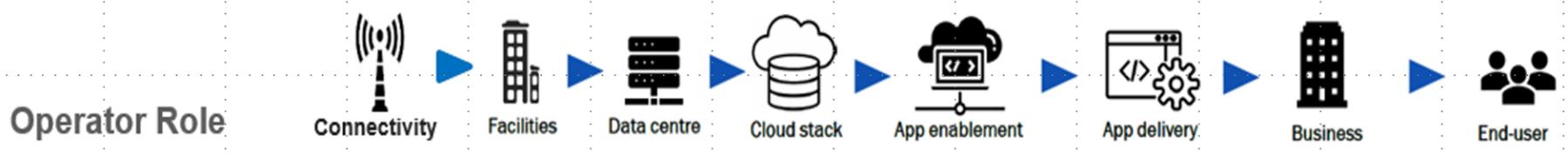


20+ Vendors



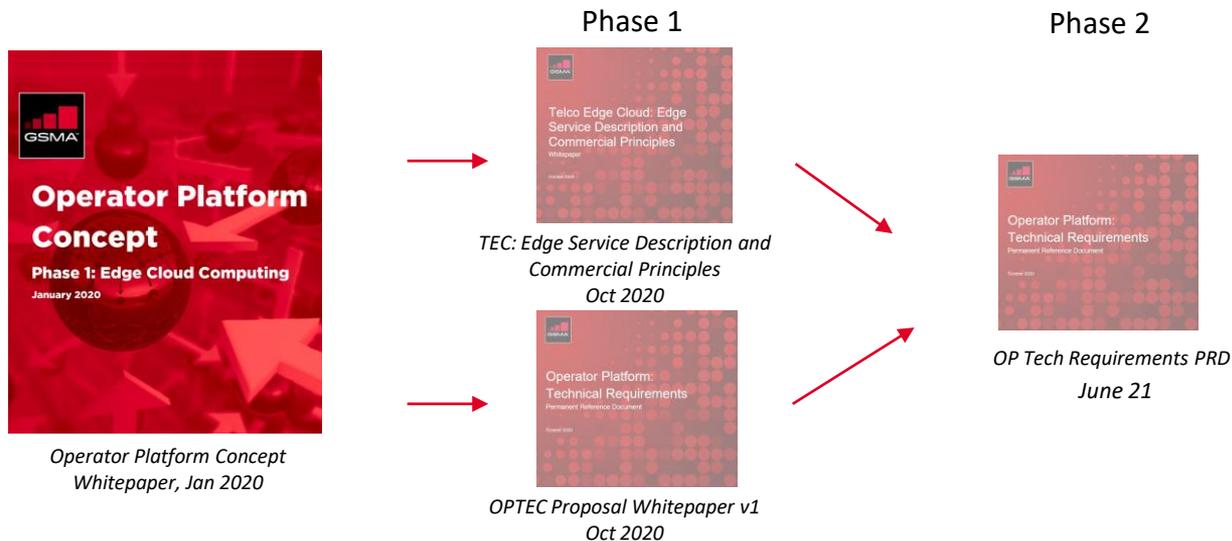
200+ members
Nov 2020

Operator Roles in the Edge Cloud Value Chain



Current progress: whitepaper launch

- Operator Platform Concept whitepaper has culminated in the release of TEC commercial requirements and first drop of technical requirements.
- Additional release of technical is planned to consider commercial requirements



Phase 1 documents available at www.gsma.com/operatorplatform

TEC Trials workshop – 2-3 Dec

Operators



Participants



- On 2-3 Dec we'll be running a matchmaking workshop connecting operators and industry partners with innovative proposals / addressing niche needs.
- Examples use cases include: Manufacturing/IoT, AR/VR in manufacturing and broadcasting, Gaming, Healthcare, Automotive and blockchain and more
- Contact futurenetworks@gsma.com to be considered in future!

So where are we at the moment?

Closed Phase 1 in October 20 with launch and release of 2 whitepapers – 1 on technical, 1 on commercials – catch up available with GSMA Thrive North America and APAC webinars.

Start of phase 2

- *Next release of whitepaper/PRD underway*
- *Identify and partner with relevant SDO and Fora who can supplement requirements and standardisation of the OP PRD*
- *Developing concepts for the key topics*
- *Kicking off trials and POCs*

Phase 2: assigned owners and contributors

Rank	Topic	MosCow	Owners
1	API gap analysis with SDO & Associations, specifying API gaps	Must have	Plenary group / Intel
2	Use case and capabilities	Must have	BT
3	Service access by devices that are attached to networks other than their home network (e.g. roaming, Wi-Fi, service discovery etc.)	Must have	Telefonica
4	Access to OP services in a network different from the one to which the device is attached (e.g. those provided on another operator's network)	Must have	Altran
5	Device mobility	Must Have	Nokia
6	Changes resulting from the commercial principles whitepaper	Should have	Telefonica
7	Security considerations	Must have	Intel
8	Call flows	Must have	Telefonica
9	Edge Features	Could have	Intel
10	Low latency interaction between OP applications in different networks	Should have	Altran
11	Serverless models	Cloud have	
12	Management plane	Could have	
13	Local interfaces on an end-user device	Should have	
14	NEW TOPIC: Building OP as a PaaS supporting multi-cloud and hybrid cloud with Cloud Native Technologies (proposed by China Unicom)	Could have	China Unicom / Huawei
15	Resource reservation	Should have	Telefonica

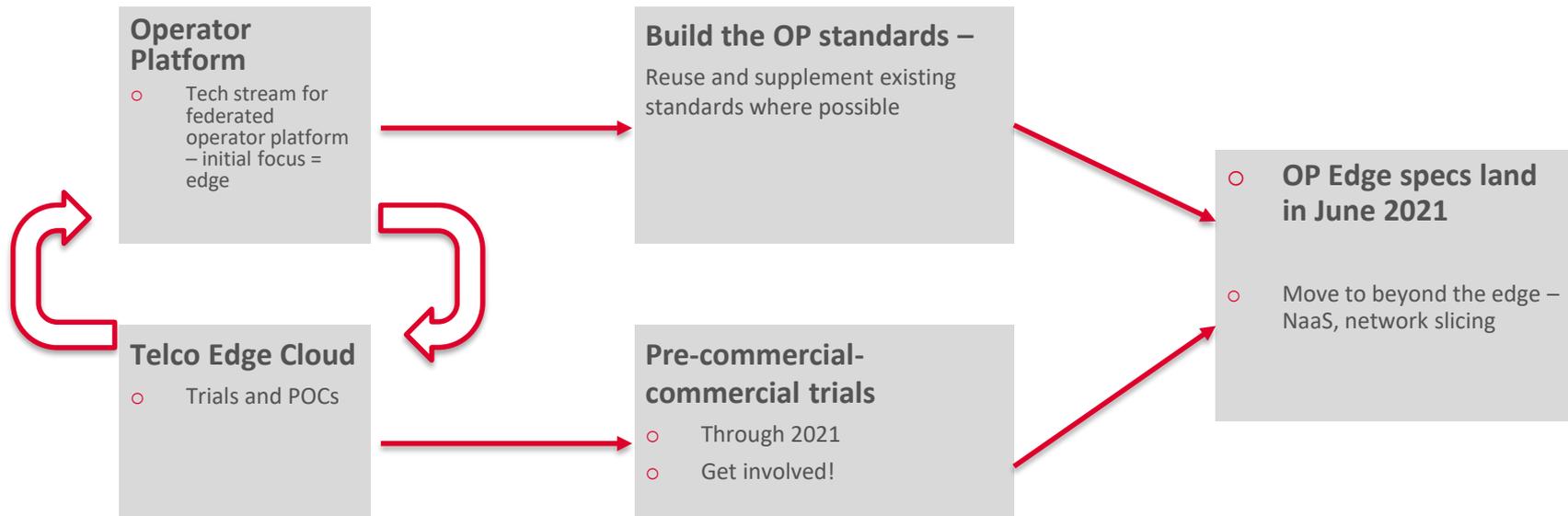
OPG / TEC High Level Timeline



- Target interim release of phase 2 deliverables – summary paper of concept notes for phase 2, fora engagement announcement
- Key use cases and capabilities paper

- OP PRD complete

Recap



- Symbiotic relationship between Operator Platform and Telco Edge Cloud project – trials informing specs and vice versa
- Specs ready in June 2021 with pre-commercial trials close to/supporting specs

Next steps



Join the OPG –

Influence the specification development



Join the TEC trials and POCs

Register interest to participate in future trials and POCs



Follow us

Find out more at www.gsma.com/operatorplatform

Thanks

