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The Operator Platform

Juan Carlos Garcia
TEC Chair
SVP of Technology and Ecosystem
Telefónica

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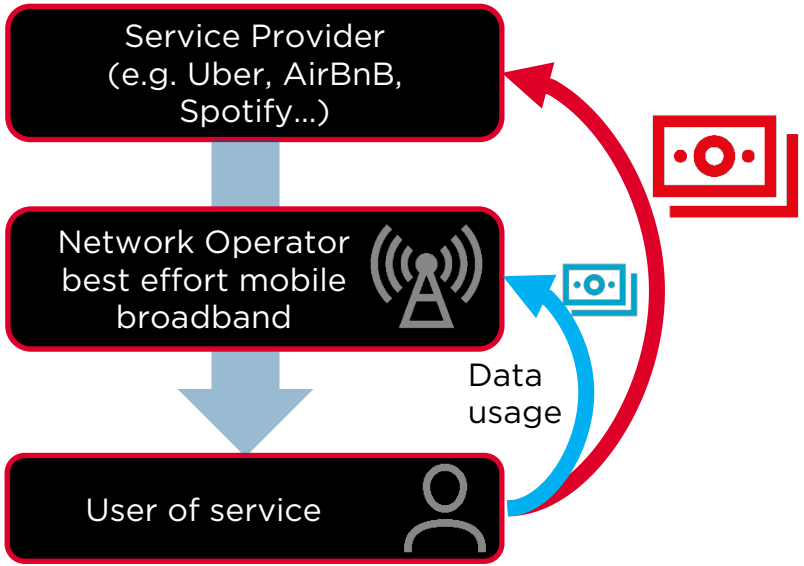
Operator Platform – Problem statement

4G Service layer disintermediation

- 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.

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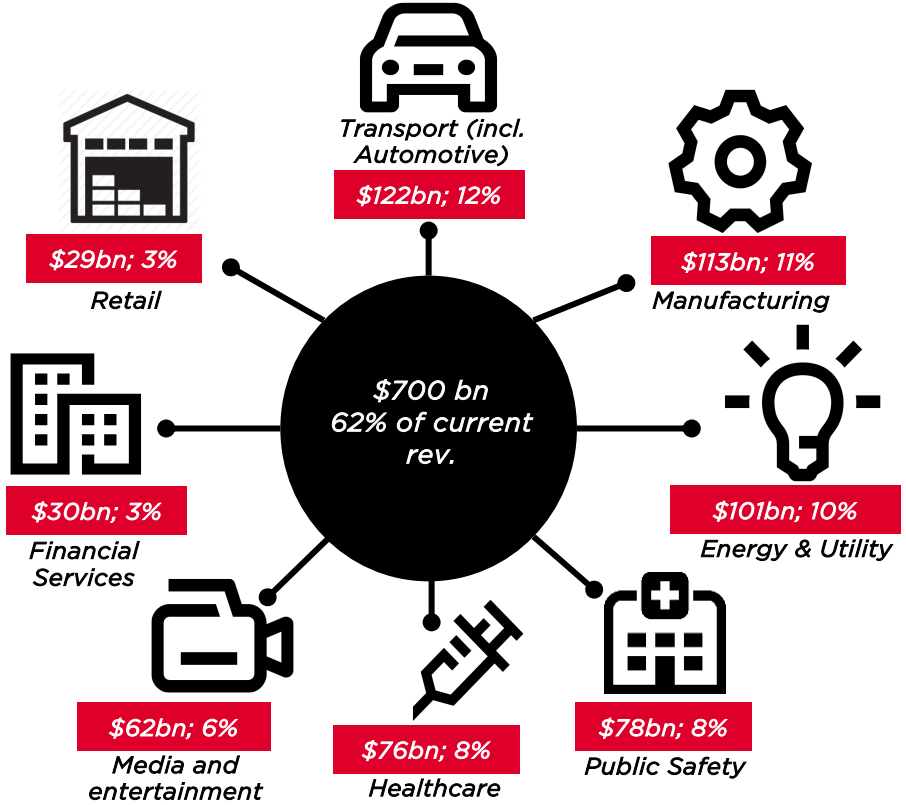
Size of the opportunity



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)

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Operator Platform Concept & Objectives

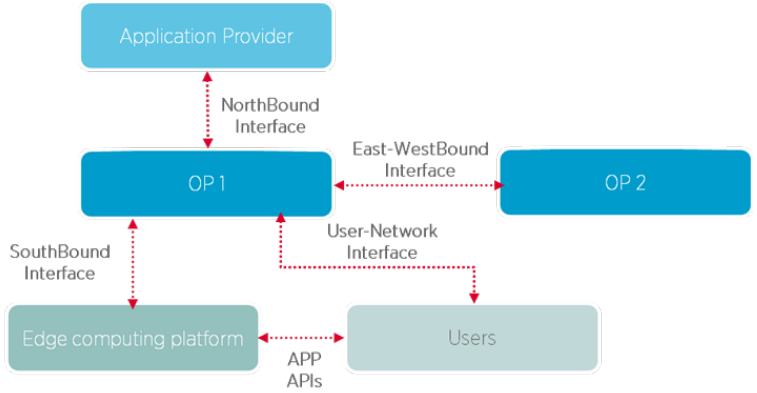
Guiding all the industry ecosystem – operators, vendors, OEMs and service providers–, to define a common solution for network capabilities exposure. As a first phase, the GSMA document will provide an end to end definition and requirements of the operator platform for ***edge computing support***

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

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Operator Platform and Telco Edge Cloud

30 Operators
15 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
- *Definition of a legal entity to run the platform*

25 Operators

2nd Half 2020

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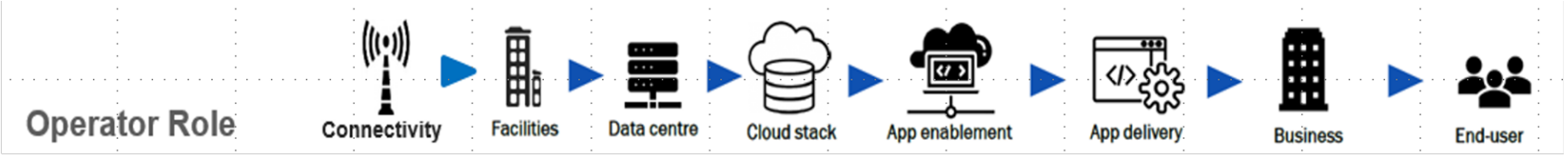
Operator Roles in the Edge Cloud Value Chain



Operator Platform scope

Platform Provider → Interconnected/Federated Operators → PaaS → Marketplace / Serv. Provider / Enterprise → SaaS → Enterprise → Consumer / Business

Infrastructure Provider → Operator 1 / Operator 2 → IaaS → Edge Service Provider / Op → PaaS → Marketplace / Serv. Provider / Enterprise → SaaS → Enterprise → Consumer / Business

Colocation Provider → Operator 1 / Operator 2 → Colo → Hyperscale Cloud Provider → PaaS → Marketplace / Serv. Provider / Enterprise → SaaS → Enterprise → Consumer / Business

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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

Operator Platform Concept Whitepaper, Jan 2020

Phase 1

TEC: Edge Service Description and Commercial Principles Oct 2020

OP Tech Requirements v1 Oct 2020

Phase 2

OP Tech Requirements v2 Feb 21

Phase 1 documents now available launched and available at www.gsma.com

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Next steps

- Identify and engage with relevant SDO's Open Source Communities and industry fora to deliver Standards and solutions for the requirements, seek dialogue to fill gaps
- Engage with value chain seeking feedback on Phase 1 and additional requirements in Phase 2 – welcome to join operators and vendors
- Further details to existing requirements and expansion on specifics, for example; national and international service continuity, Wi-Fi access, Low latency interaction across networks, Device requirements, Serverless models, Management plane, Resource reservation, Device mobility, Call flows, etc.
- Gather Commercial requirements, assess Business Models and facilitate Charging Principles