



Edge Cloud @GSMA

Operator Platform Group

Telco Edge Cloud taskforce

5GAA Virtual Meetings

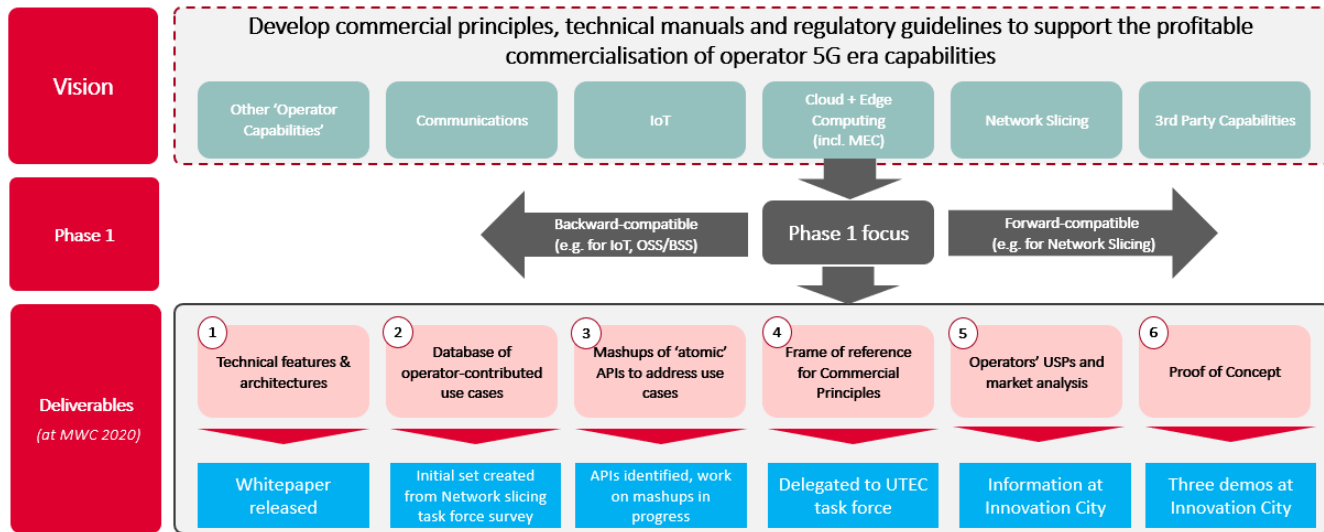
13 April 2020



GSMA launched Operator Platform in 2019

with a wide support of the Operator community

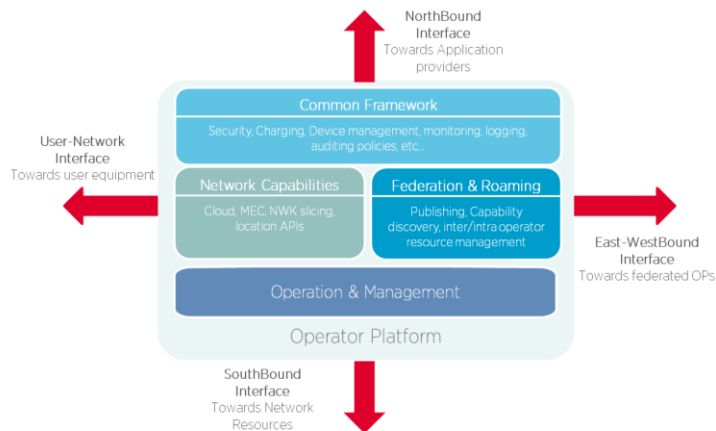
Operator Platform is the mechanism for operators to expose and monetize their network capabilities. This includes Edge Computing services initially but will be open in a second phase to existing capabilities (like IP Comms) and future ones (like Network Slicing).





...producing a deliverable by the End of 2019

First delivery: the Concept whitepaper

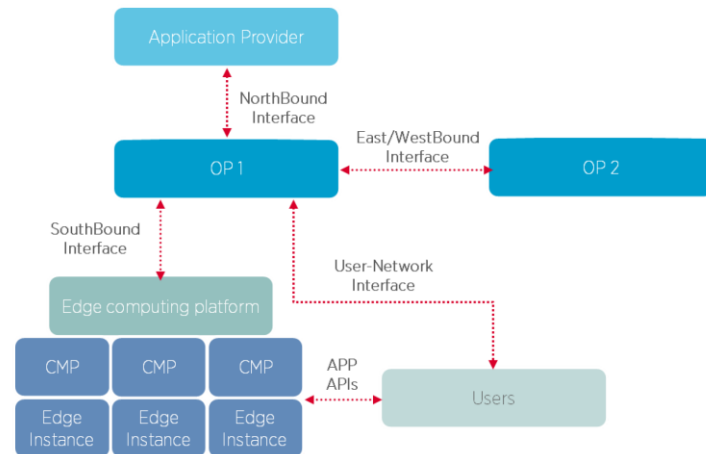


Operator Platform
decided to focus on Edge
Computing in a First Phase



<https://www.gsma.com/futurenetworks/resources/operator-platform-concept-whitepaper/>

The **Operator platform** is described through a number of roles, building blocks and interfaces and sets the reference for operators willing to expose their network capabilities.

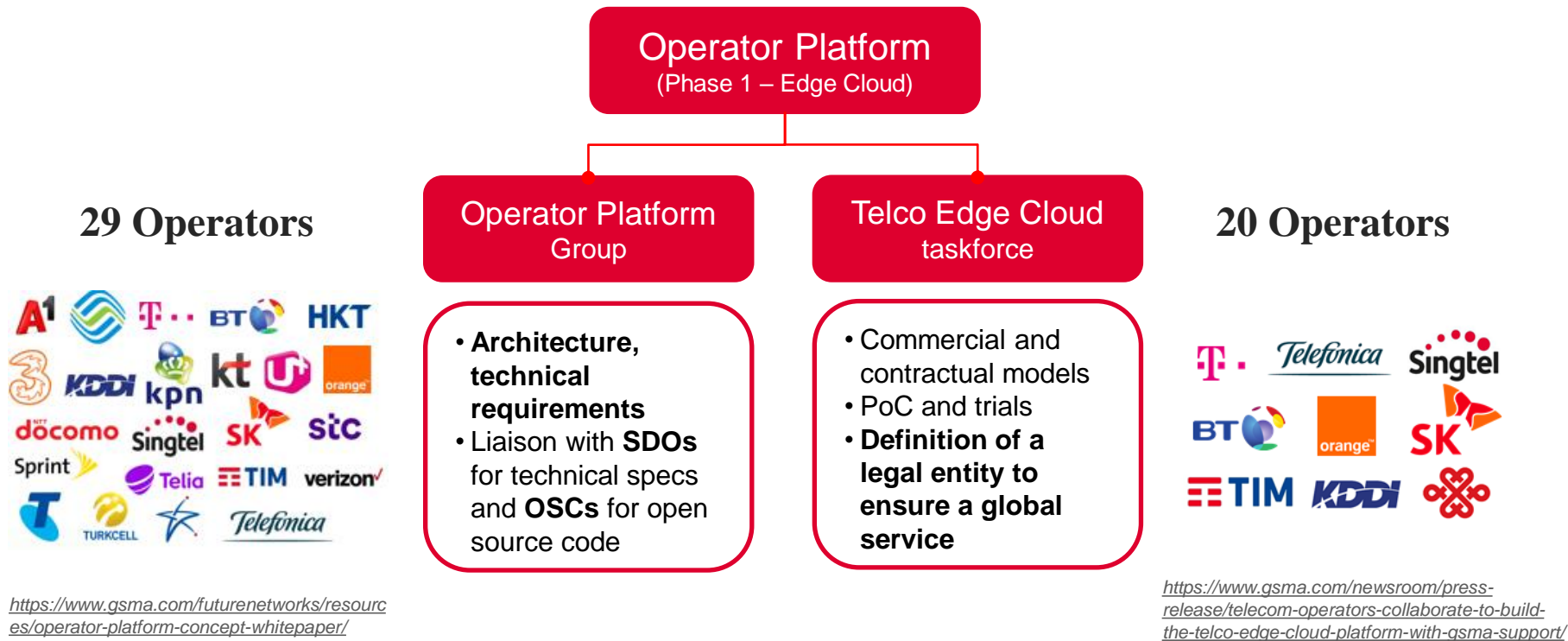


Operator platform combines cloud and network principles to offer service capabilities in a programmatic way to application developers and Enterprise customers to develop, deploy and manage their solutions on top of a Telco infrastructure with global reach.



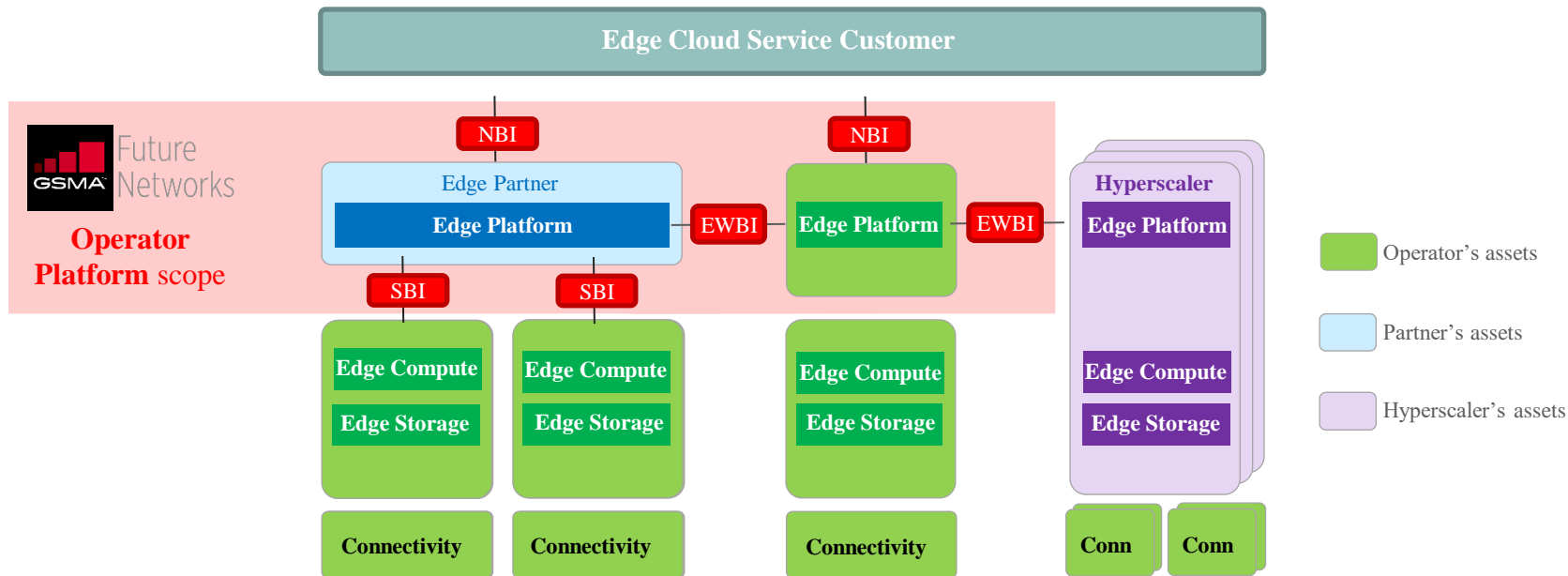
Operator Platform evolves in 2020...

with different streams for technical and business development





Operator Platform considers different model and defines the enablers for global Operator-based services





Operator Platform builds on the Cloud principles and focuses on defining the edge-specific functionality

The Edge Cloud is a Cloud but needs in addition:

- Smart Edge Resource allocation
- Smart Edge Connectivity
- Federation of Edge Computing platforms

...and when Mobility is required:

- Smart Edge Discovery
- Mobility support
- Service Availability in visited networks

At the **MultiOperator MEC Experience** project key operators and technology partners are working to design, develop and test this basic MEC functionality and support for **federation, mobility** and **roaming** to enable a global Telco Edge Cloud service

Operators:



Partners:



Contributing to:



<https://www.telefonica.com/en/web/press-office/-/telefonica-signs-an-agreement-with-kt-corp-china-unicom-and-telstra-to-collaborate-on-the-multi-operator-edge-computing-experience>



The Telco Edge Cloud offers a wide footprint

Enabling a global Edge Computing service based on telco assets

- The Telco Edge Cloud is a global distribution system that offers Edge Computing services for customers to develop, deploy and manage edge-based solutions over a global footprint, benefiting from the unique capabilities that Telecom operators offer.
- It offers a digital one-stop shop for edge computing services, on a trusted and secure environment.
- It presents a fair and transparent commercial model across the value chain.
- TEC is built on edge technology based on a combination of Open Source, Cloud and Telco standards.
- Providing a single and simple interface (GUI, CLI, API), it facilitates the relationship with multiple Service Providers and multiple Mobile Operators, interconnected by open and standard federation mechanisms.
- TEC is supported by a group of 20 operators from Europe, Middle East, Asia-Pacific and the Americas,





The Telco Edge Cloud presents clear benefits to the different stakeholders

Enterprise customers:

- **Device offloading:** to increase battery life, improve form factor, add new services without increasing device processing
- **Network intelligence** to optimising the edge computing.
- **End 2 end Security and Privacy**
- **Network Control** of specific parameters like jitter or peak latency, increasing efficiency and performance adaptability by enabling the dynamic selection of the most optimal edge node to serve the user at each point in time..

Application developers,:

In addition:

- **Partnering & Ecosystem.** Specialised edge application developers and technologies are available at the Telco Edge Cloud community, providing a rich playground for innovation in edge-based solutions.
- **Customer Reach:** The global coverage allows developers a faster return on their investment effort.

End users:

- New smarter services less reliant on device hardware and with greater security & privacy.
- New **generation of smart devices**, both lighter and more powerful (unlimited processing capacity at the network)
- Applications served from the network, avoiding the internet and offering **greater security and privacy** through the trusted operator mechanisms (SIM, device, network and user data).
- The **cloud follows the end user** as it moves, ensuring a uniform service experience anywhere.
- **Global coverage.** The TEC user can enjoy the edge services over a huge footprint that replicates today's Global Mobile networks.



The Telco Edge Cloud is an operating project

Aims to launch a global Edge Computing service by 2021

OPERATOR PLATFORM

Agree on a unified Telco Edge Cloud architecture:

- Following Operator Platform concept
- With mechanisms for federation and mobility and roaming support.

Ensure interoperability and a single and simple interface to customers

COMMERCIALS

Define

- commercial principles (value chain, roles),
- business model (assets, expenses, charging)
- contractual frameworks

Create certainty for all stakeholders so that they can build their business plan

TRIAL AND POSITION

Create early awareness, claim a position in the Market

- Show feasibility running service trials in all regions
- Define and create MVP
- Define technical and product roadmap

Ensure technical solution, operating model, commercial proposition for the launch

ENTITY DESIGN

Organizational design:

- Assess options to manage the Telco Edge Cloud
- Define structure of the entity and governance
- Set calendar for the entity creation

Align partners on phasing and timing for the entity creation with clear decision gates

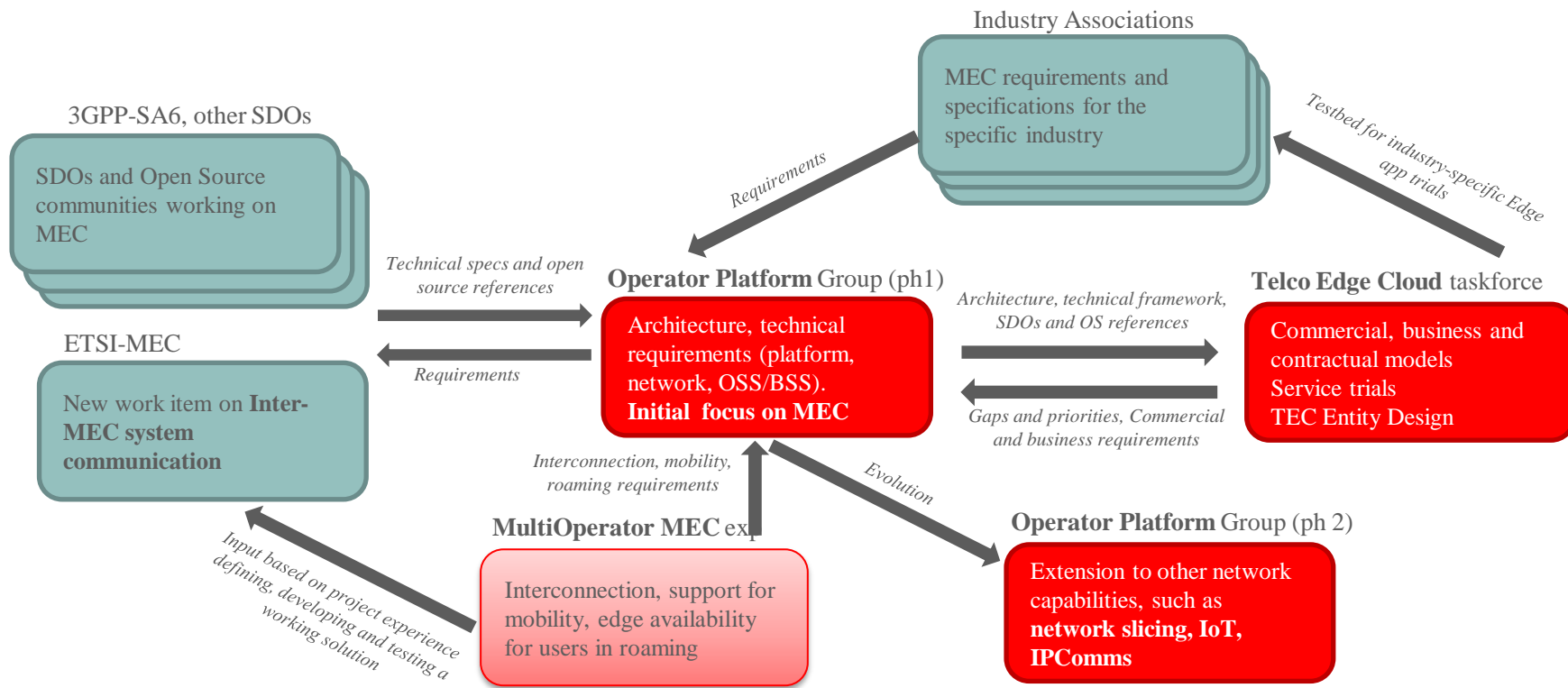
OUTCOMES OF THE TASKFORCE

- Service launch
- Product and technical roadmap
- Design and schedule for entity creation
- Clear commercial principles, business model and contractual framework
- International expansion plan



GSMA is building links to other Industry bodies

from SDOs to Associations from other Industries





A joint collaboration may bring value to both Mobile and Automotive industries

