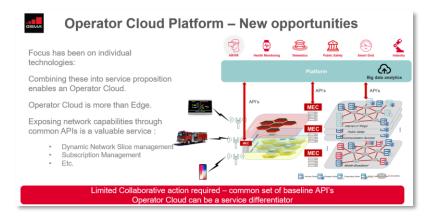


Telco Edge Cloud introduction Actions at GSMA to shape the Edge 16 July 2020



The activity on Operator Cloud starts by Eo18 with a number of discussions at Strategy and Technology Groups

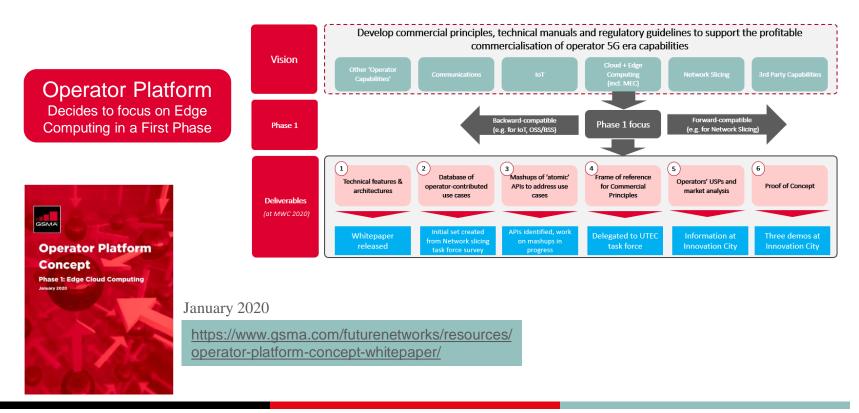


At that time, the **Technology Group** also includes **Edge Computing** in the list of priorities for 2019 as part of a set of disruptive technologies like AI/ML, AR/VR, quantum computing, blockchain, etc. that together with the **introduction of 5G** is going to change the landscape in the Telco Industry At the beginning of 2019, GSMA starts considering the Operator Platform, that includes Edge, as a key element of the **Future Networks programme**



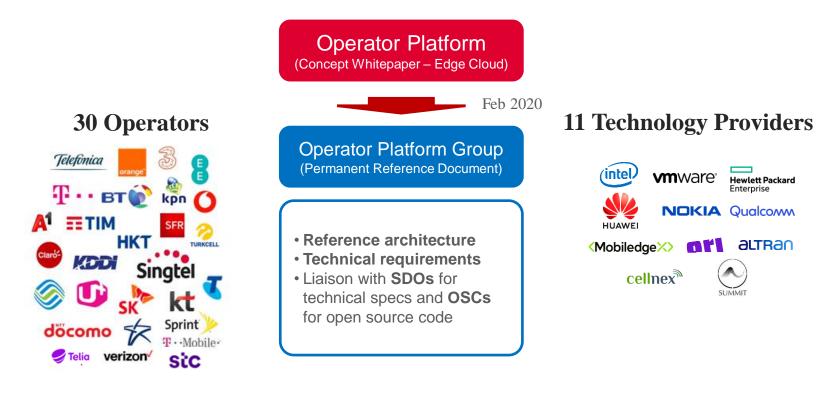


Operator Platform, initial focus on Edge Computing First delivery in 2019: the Concept whitepaper



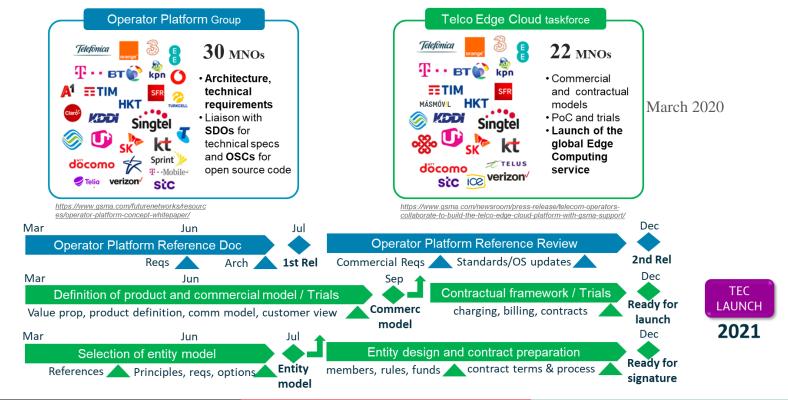


Operator Platform evolves in 2020... to elaborate a Permanent Reference Document





...and Telco Edge Cloud taskforce is created aiming at launching a global Telco Edge Computing service



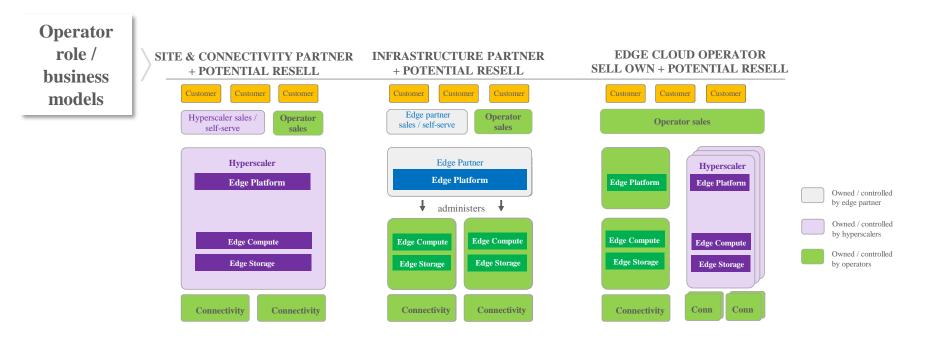


Operator Platform Group OPG



The Edge Cloud may follow several models

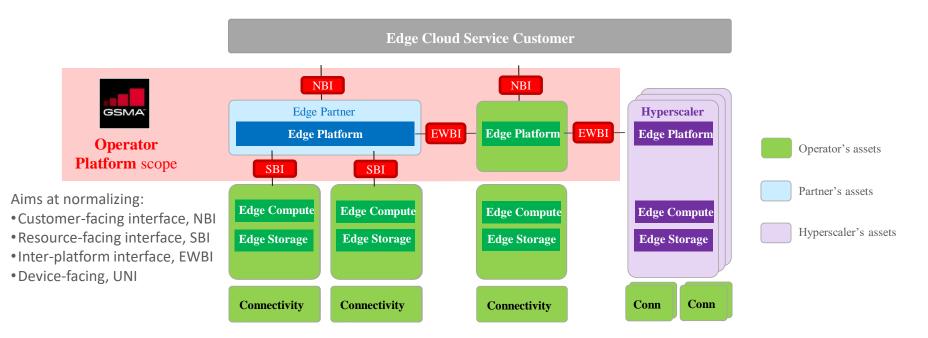
depending on the ROLE the Operator wants to play





OPG promotes Edge standardization and federation

in order to enable global Edge Cloud Services based on Telco Infra





Operators are developing the missing Edge capabilities

required for global reach, mobility and roaming support

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 (roaming support)

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



March 2020

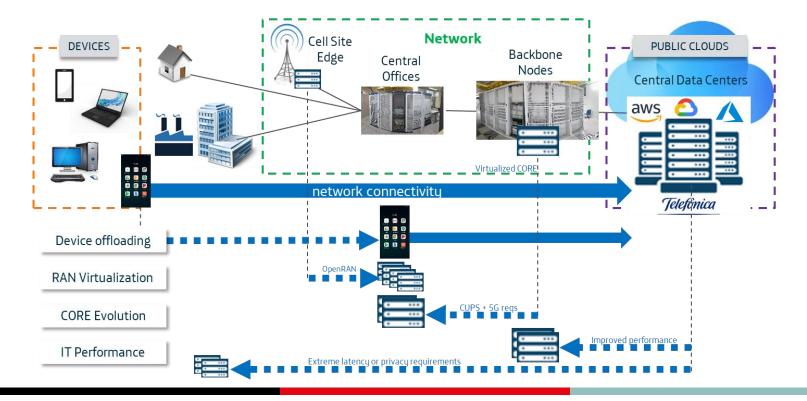
 $\label{eq:https://www.telefonica.com/en/web/press-office/-/telefonica-signs-an-agreement-with-kt-corp-china-unicom-and-telstra-to-collaborate-on-the-multi-operator-edge-computing-experience$



TELCO EDGE CLOUD TEC Commercial workstream

Operators are going to deploy workloads at the Edge

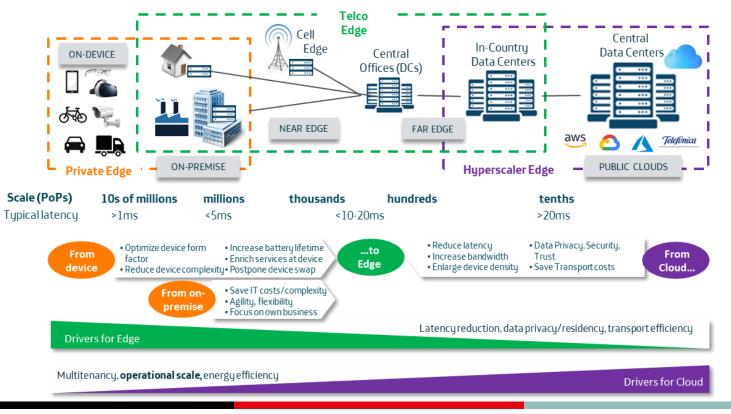
that is the natural evolution of its own network and their customer demand





Need to understand motivations and barriers for Telco Edge usage

to show customers the value of TEC and meet expectations



CONFIDENTIAL



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**.



- It provides a single and simple interface (GUI, CLI, API), that 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 22 operators from Europe, Middle East, Asia-Pacific and the Americas.

TELCO EDGE CLOUD TEC Trials workstream



Multi-operator VR gaming trial Telefonica-DT using MobiledgeX as an aggregation platform solution



Multi-operator and multi-locations consumer trial conducted between Telefonica and Deutsche Telekom using the

MobiledgeX platform running on top of edge infrastructure provided by the participating operators.

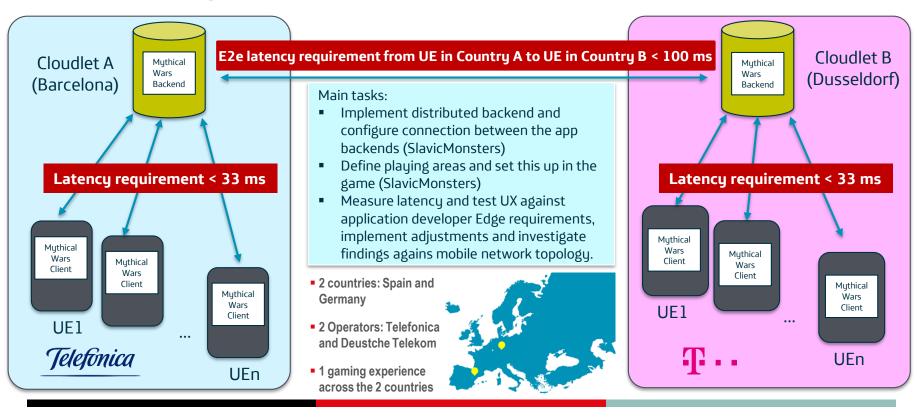
The participating operators are responsible to provide the connectivity between user devices and the respective edge location as well as between the edge locations with sufficient quality.

Content of the trial was a XR multiplayer-game, "MythicalWars", developed with game provider Slavic Monsters.



VR gaming trial set up and technical requirements

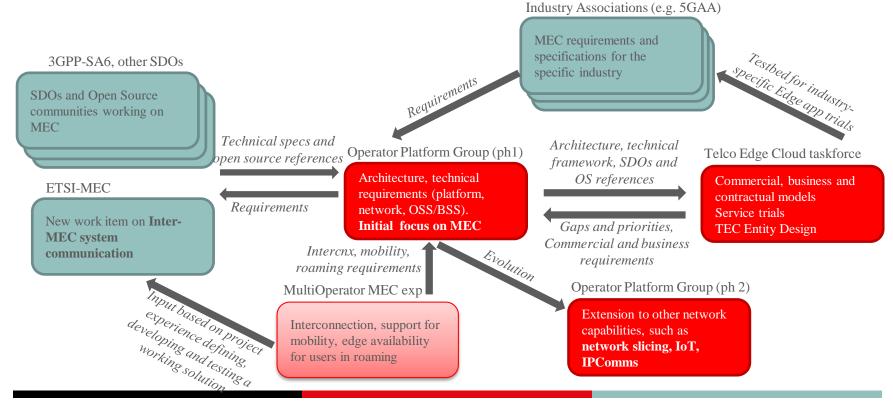
connecting the applications across borders



OPG/TEC Industry Engagement



...building links to other Industry bodies from SDOs to Associations from other Industries





Collaboration opportunities at the Edge

following our OPENNESS principles

