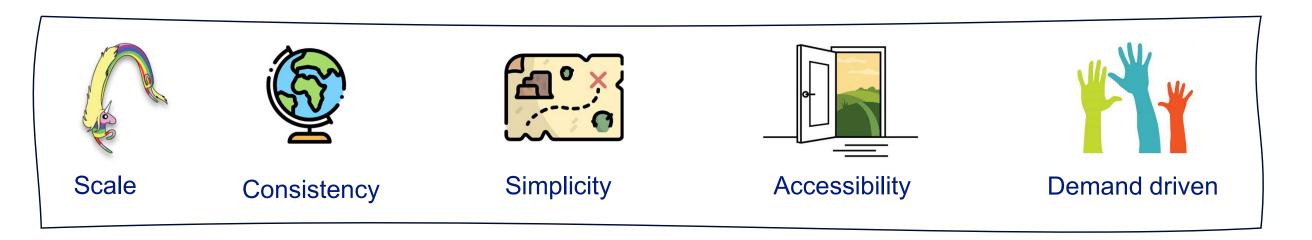
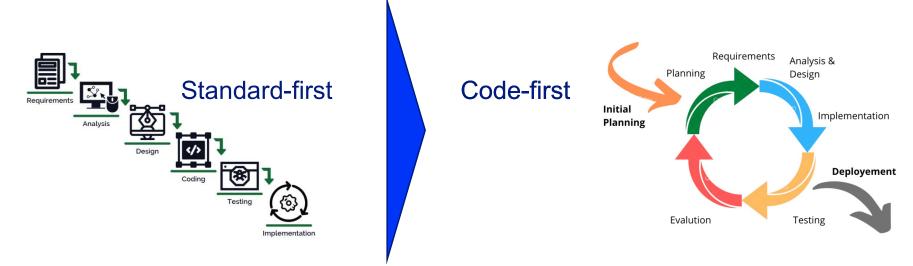


The Issues Achieving NaaS. A Rationale



Traditional telco standards are not fast enough.



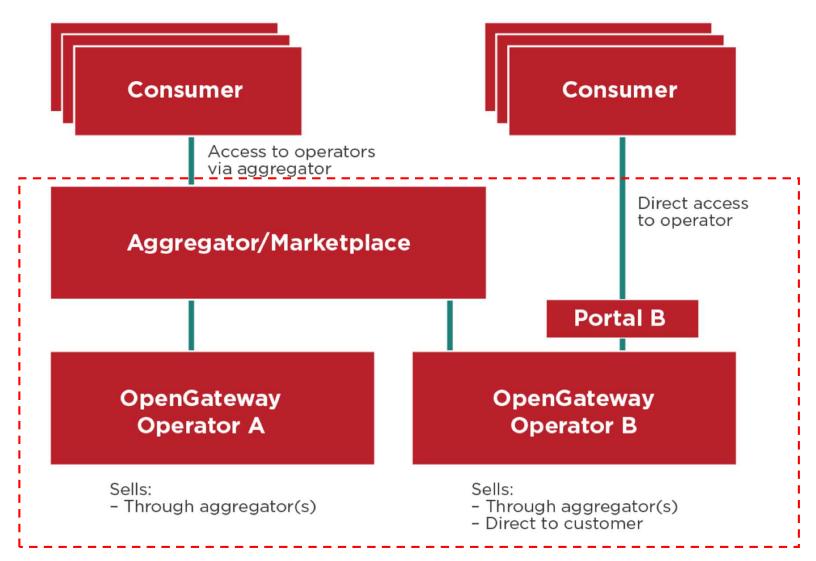


The Main Roles in Network-as-a-Service (NaaS)

The **Consumer** is a Developer, Application Service Provider (ASP), ISV, Enterprise customer, that creates code that invokes the APIs

The **Aggregator** may be an hyperscaler, OTT or an operator. It sells on behalf of the Open Gateway community and is effective when it represents a high number of operators.

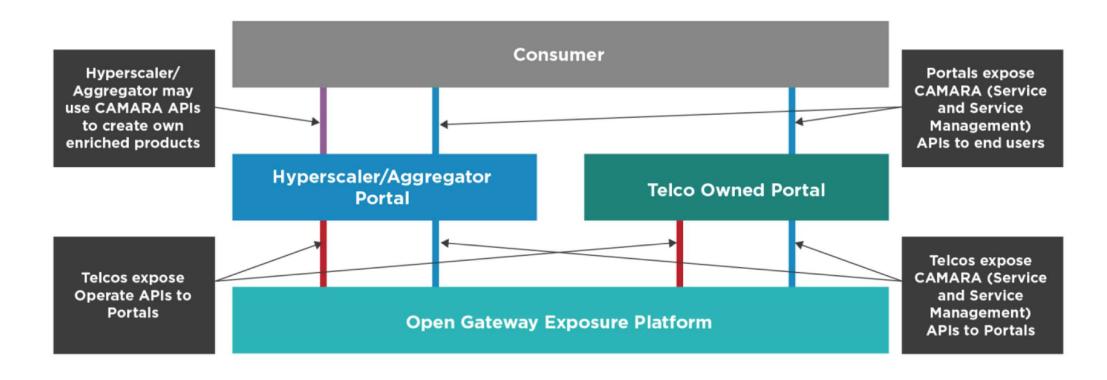
Each **Operator** sets its own T&Cs with the channels, but there needs to be full alignment on product (standard APIs) and business framework (agreement templates, charging models)







APIs for Network-as-a-Service (NaaS)



Industry forum	Legend	Scope	Description
CAMARA THE TELCO GLOBAL API ALLIANCE		Service API	QoD, Device Location, Device Status, SIM Swap, OTP Validation, Carrier Billing,.
		Service Mgmt API	Service execution validation, service status, service consumption, service ticketing
tmforum		Operate APIs	Service LCM, Devloper/customer/merchant LCM, assurance, billing.
		Enhanced CAMARA APIs	Hyperscaler/OTT may use CAMARA APIs (service & service mgmt APIs) to create own enriched products



The CAMARA Project

Consortium

In just one year

Where we started

- Launched at MWC Barcelona 2022
- 22 Launch Partners
- Simple idea to standardize developer facing apps
- Supported by GSMA and Linux Foundation

Where we are now

- 77 Named Partners
- 214 companies participating
- 12 Active API development repos
- 625 people joined CAMARA
- Development home for GSMA Open Gateway























































































































































The CAMARA Project Scope

- Collect API requirements from GSMA Operator Platform Group and other sources
- Define "Service" APIs and "Service Management" APIs.
- Create test plan/cases/tools from an API consumer perspective
- Develop and test in-scope APIs
- Create developer **friendly documentation** for in-scope APIs

The following deliverables are provided by CAMARA Project:

- API definitions, code and documentation
- Test plan, cases and tools for in-scope APIs both contained in deployment packages



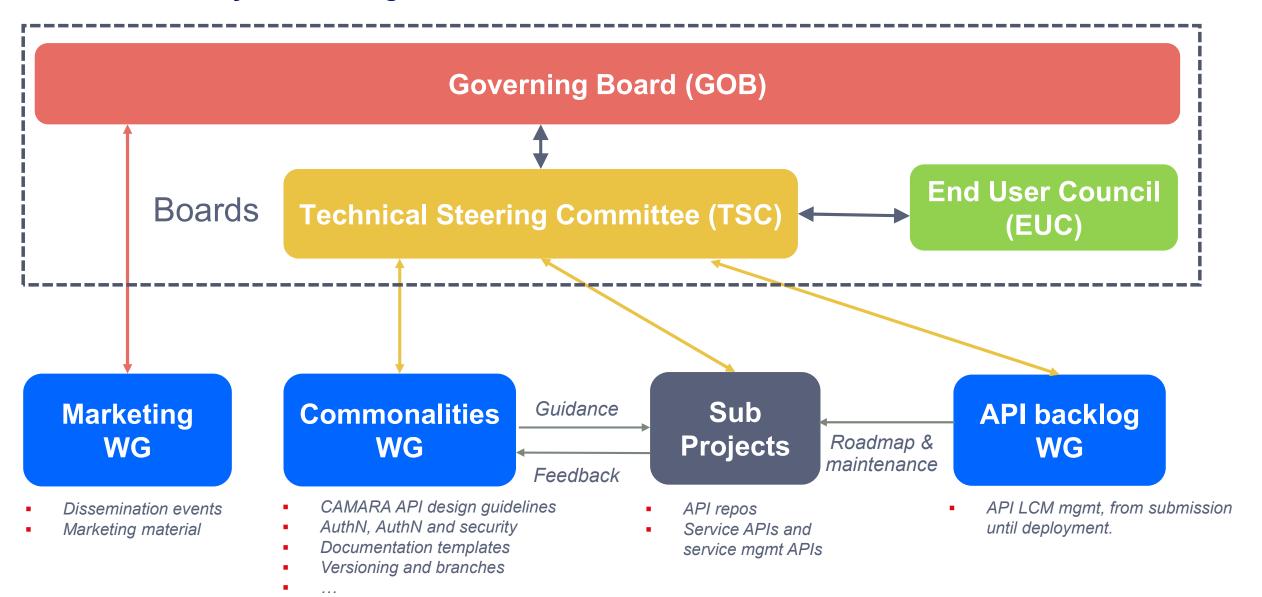


https://github.com/orgs/camaraproject/repositories



The CAMARA Project

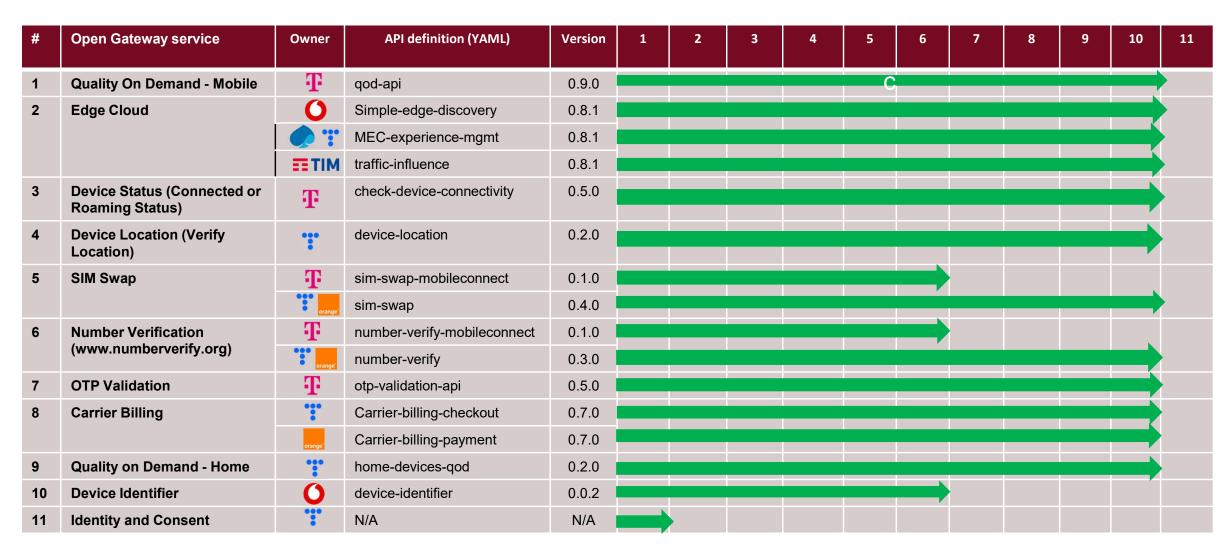
Structure and Ways of Working





CAMARA Project: API familiesSub-Projects

Work so far focused only on Service APIs - Service mgmt APIs to be available soon.





^{2 -} User Stories Available



^{3 -} API Scope Agreed

^{4 -} API Parameters Agreed

^{5 -} API Flow Agreed

^{6 -} YAML Created

^{7 -} YAML Consolidated

^{8 -} API Documentation available

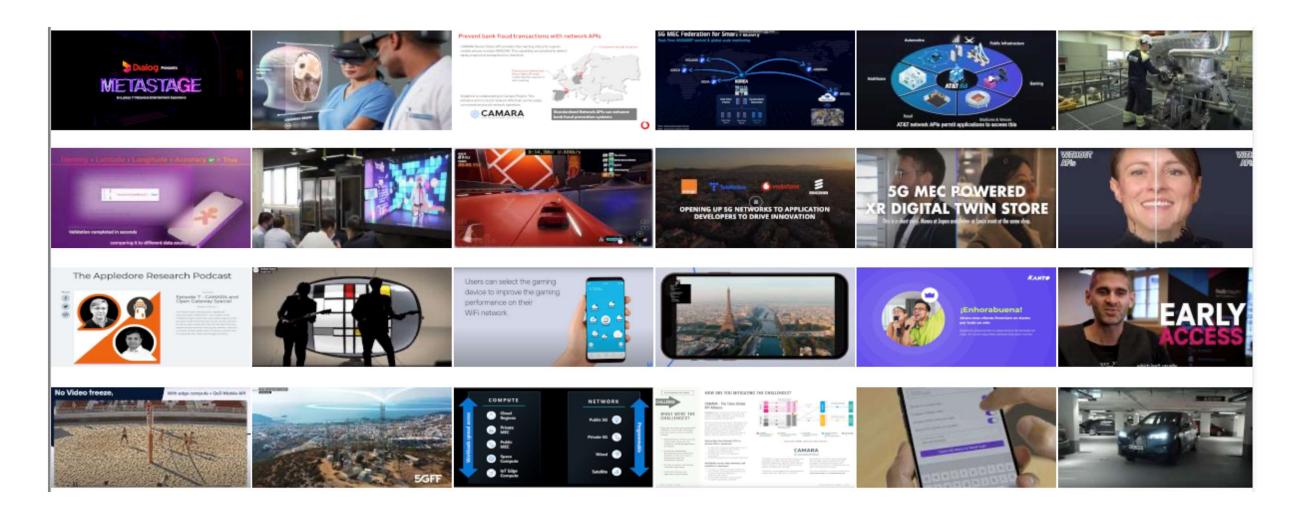
^{9 –} CAMARA Security Compliant

^{10 -} Draft Published

^{11 –} Test complete

CAMARA Project

API showcases





CAMARA in Telefónica

Two separate yet intertwined tracks

Innovation track











Free Access

Test Use Cases

Dev kit

Experiment

Support

Early Adopter Programme (EAP)

Research and Innovation track





