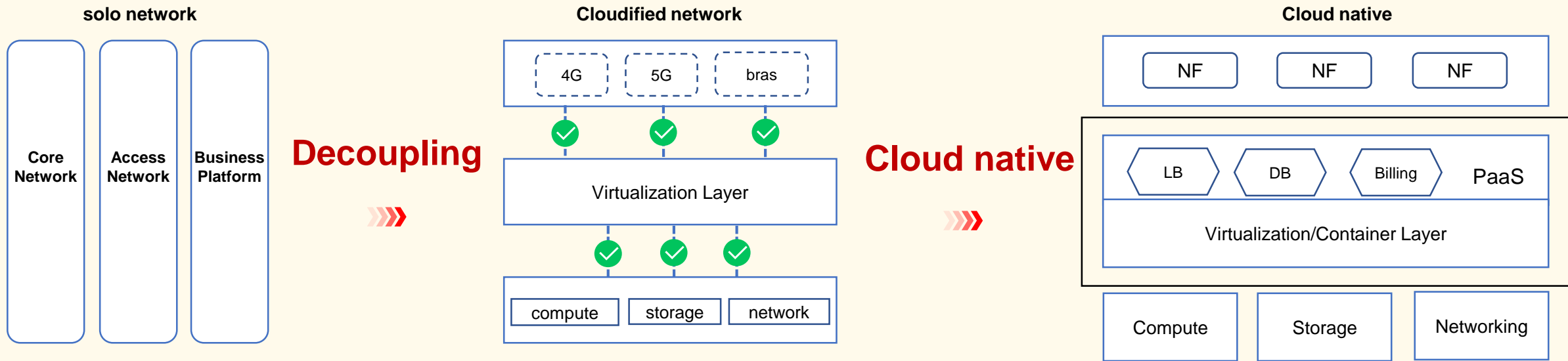


Cloud Native Telco-Platform (CNTP)

CNTP | Operators' network transformation

- ✓ With the help of NFV, SDN and orchestration management technology, current operator network is transforming from the traditional hardware and software equipment to the layered and decoupled cloud network.
- ✓ In the future, thanks to the application of container, microservice and other technologies, it will eventually evolve into the cloud native network

Operators' Network Transformation



CNTP | The need for operators to take control of a cloud native telco platform

Fast-paced change in 5G requirements

- High flexibility in 2B scenarios
- Quick function upgrade
- Agile capabilities release

VM platform is inadequate

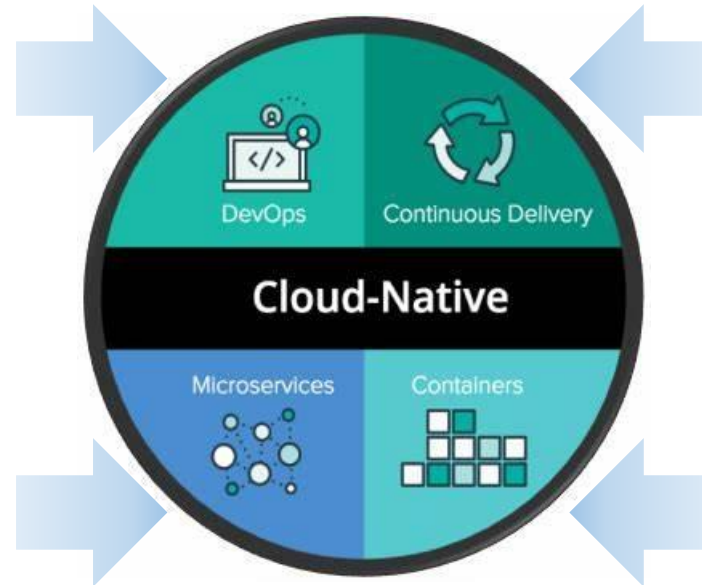
- Guest OS cumbersome
- Low deployment density
- Slow start and stop of virtual machine

Open & healthy eco-system

- Reduce barriers to enter the telco-industry
- Introduce healthy competition
- Expand and prosper the ecosystem
- Reduce the cost on network construction

Autonomous control of CNTP

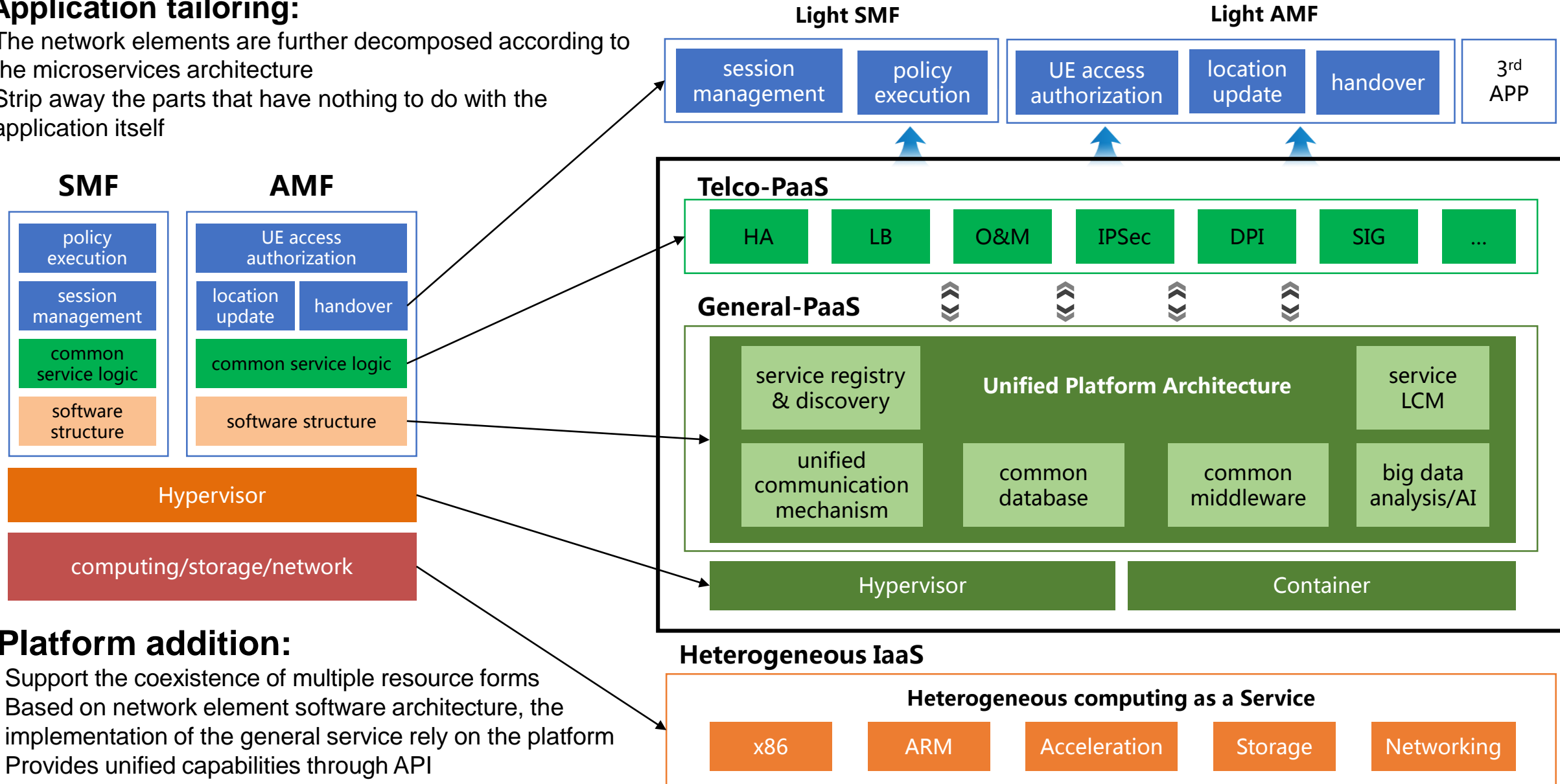
- Carefully select common service from NE to platform
- Standard APIs to provide capabilities
- Application development focus on service logic



CNTP | How to build a Cloud Native Telco Platform

1. Application tailoring:

- The network elements are further decomposed according to the microservices architecture
- Strip away the parts that have nothing to do with the application itself



CNTP | How to promote the project



- Drive VNF further reconstruct, based on 3GPP SBA



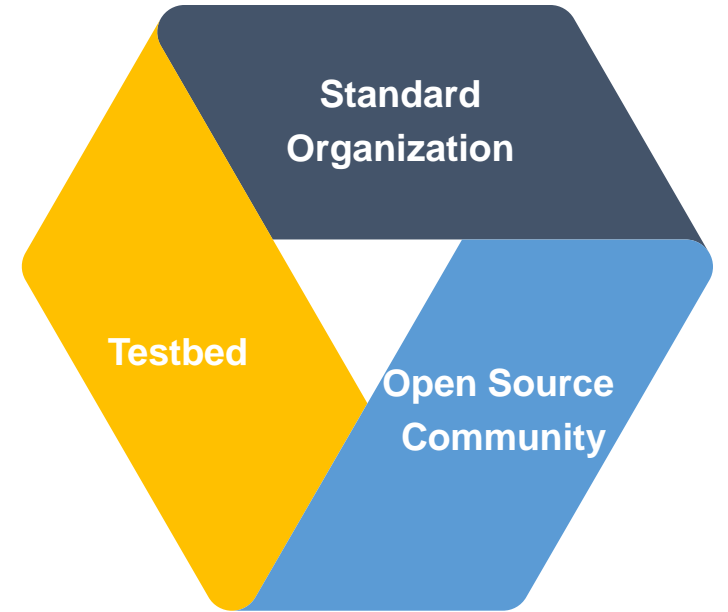
- Establish a new project under LFN
- Combine with CNCF and CNTT to complete the design of the Network Element microservice framework



- Implement the common cloud native PaaS capabilities by CNTP platform



- Build a microservice and cloud native based testbed with OAI codes in operators' lab



China Mobile, China Telecom, Pivotal, Redhat, Intel, VMware, Ericsson, Nokia, ZTE, H3C

CNTP | Roadmap

2020



2021 - 2022



2022 - 2023

Open source project: establish work group & clarify project goals

- *Feb*, launch an initiative at the MWC2020
- *Jun*, establish a project under LFN
- *Dec*, release the 1st version of platform

Testbed

- Build a prototype of cloud native telco-platform

Open source project

- Complete general PaaS definition
- Drive vendors to complete prototype development

Testbed

- Introduce interworking of different vendors in the prototype

Open source

- Complete telco PaaS definition

Pilot test

- Build telco platform for operators