



# 5G cloud-native software solutions: vendor case studies



Caroline Chappell and Michela Venturelli

## About this report

This report analyses the propositions of selected vendors that play a role in the cloud-native stack. It outlines the relative strengths and weaknesses of these vendors and compares them in terms of their cloud-native design capabilities, co-creation and customisation capabilities, ecosystem participation, level of communications service provider (CSP) support and delivery models.

This report is based on:

- interviews with key stakeholders in the cloud-native landscape
- Analysys Mason's internal research on cloud-native platforms and the Kubernetes ecosystem.<sup>1</sup>

### KEY QUESTIONS ANSWERED IN THIS REPORT

- How do vendors compare in terms of their cloud-native design capabilities, co-creation and customisation capabilities, ecosystem participation, level of CSP support and delivery models?
- What are the opportunities for vendors within the new cloud-native software stack?

### CASE STUDIES

- Affirmed Networks
- Amdocs
- Canonical
- CloudBees
- Cloud Foundry
- Ericsson
- Huawei
- HP Enterprise
- Metaswitch
- Netcracker
- Nokia
- Rancher
- Red Hat
- Solo.io
- VMware

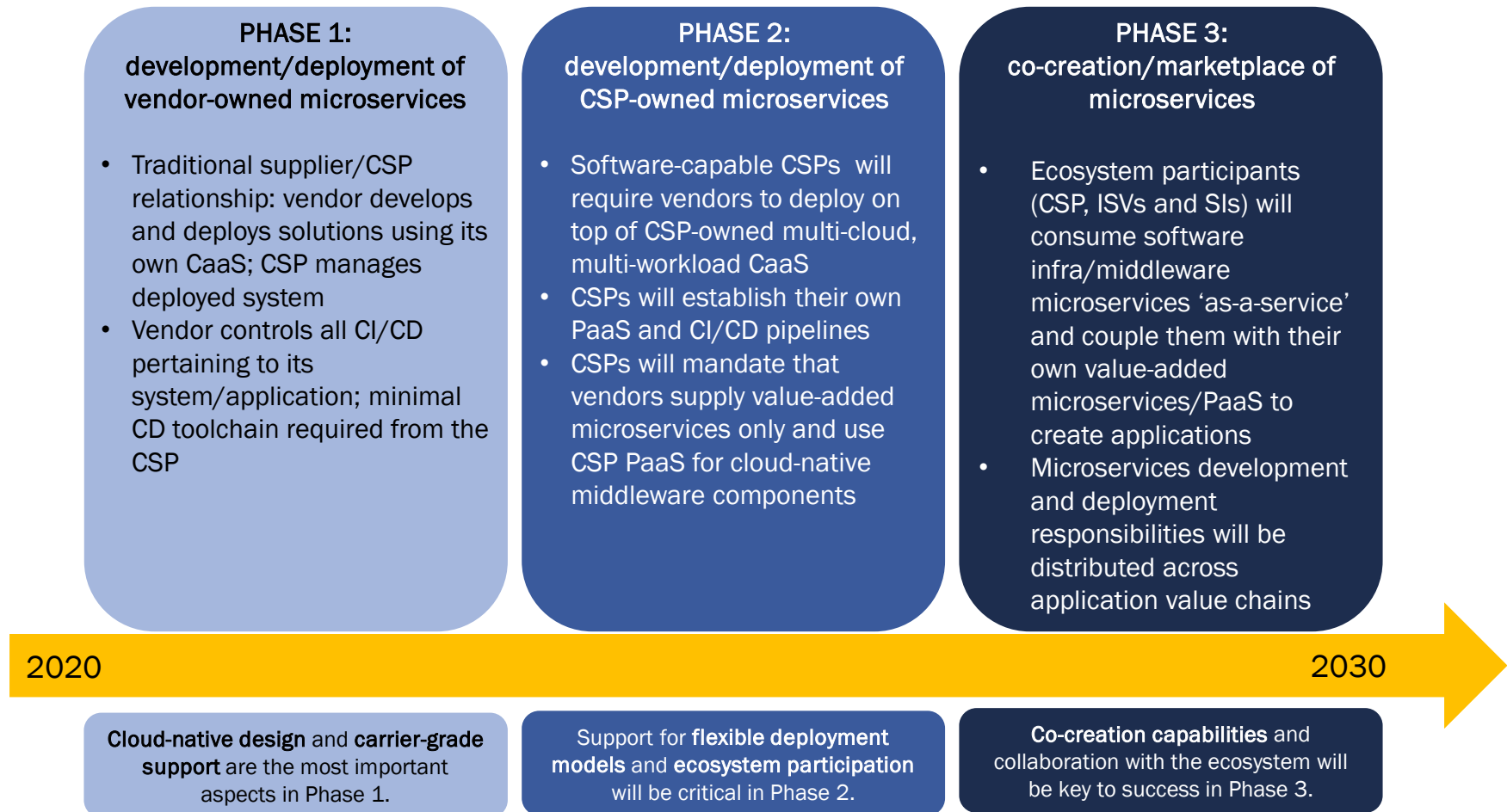
### WHO SHOULD READ THIS REPORT

- Vendors involved in developing the business case and proposition for cloud-native technologies.
- Vendors such as technology component vendors, VNF vendors and BSS/OSS vendors that want to understand what their opportunities are in the cloud-native stack and how they can differentiate their business.

<sup>1</sup>For more information, Analysys Mason's [Cloud-native 5G: preparing CSPs for the impact of Kubernetes \(K8s\)](#) and [Selecting a PaaS for CSPs' 5G cloud-native development](#).

# The cloud-native software development and deployment landscape will change over time as CSPs become software-capable and the industry shifts

Figure 3: The three phases of cloud-native development and deployment



Source: Analysys Mason



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## About the authors



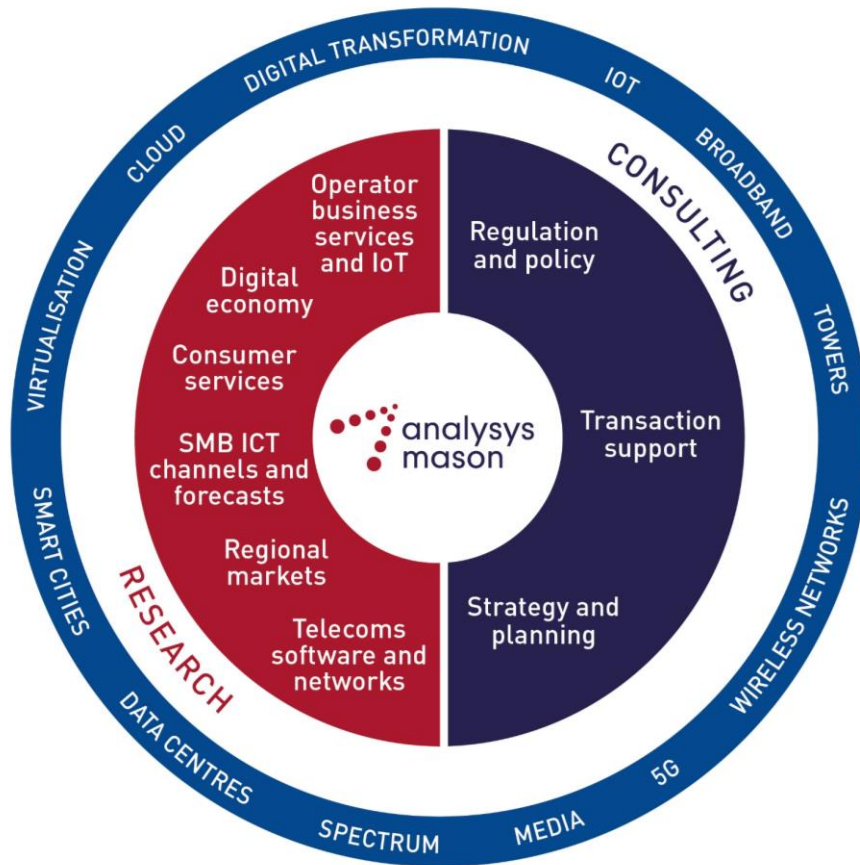
**Caroline Chappell** (Research Director) co-ordinates Analysys Mason's digital transformation research and contributes to the *Digital Infrastructure Strategies* research programme. Her research focuses on service provider adoption of cloud, and the application of cloud technologies to fixed and mobile networks. She is a leading exponent of SDN and NFV and the potential that these technologies have to enhance business agility and enable new revenue opportunities for service providers. Caroline investigates key cloud and network virtualisation challenges, and helps telecoms customers to devise strategies that mitigate the disruptive effects of cloud and support a smooth transition to the era of software-controlled networks.



**Michela Venturelli** (Research Analyst) is a member of the software research team, and contributes to the software and network technology research programmes. Her areas of interest include the digitalisation of communications service providers' (CSPs') systems, and the evolution of software architecture in cloud computing deployments. Michela holds a PhD and a MSc in Physics from University College London and Statale di Milano university, respectively.

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