

# Building the telco edge: With or without hyperscalers?

STL Partners

1 September 2021

In partnership with:



# Agenda

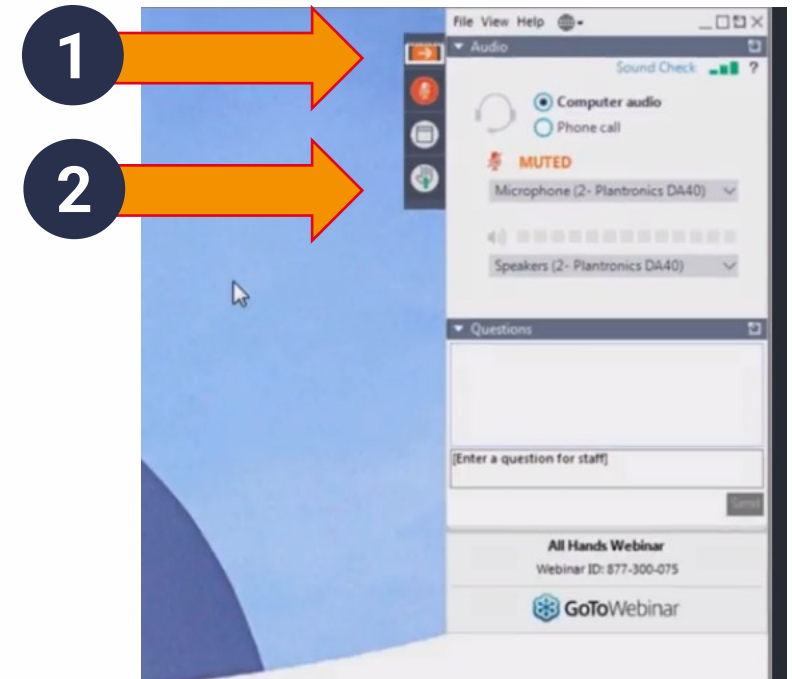
<b>1</b>	<b>Introduction &amp; housekeeping</b>	5 mins
<b>2</b>	<b>Presentation</b>	20 mins
<b>3</b>	<b>Panel discussion and Q&amp;A</b>	30 mins
<b>4</b>	<b>Closing remarks and wrap-up</b>	5 mins

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# GoToWebinar

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- Feel free to type questions throughout the session for Q&A at the end
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# Webinar agenda

20 mins

**Building the telco edge:  
with or without hyperscalers?**

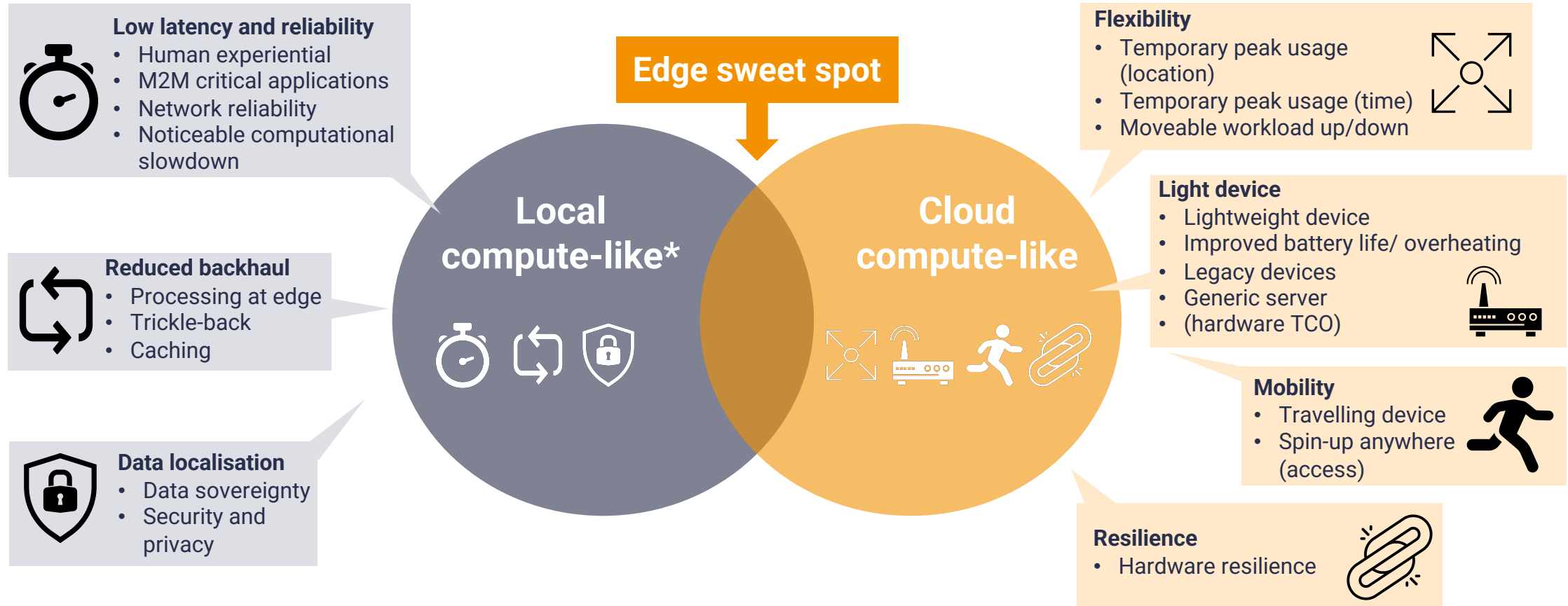


30 mins

**Panel discussion and  
Q&A**

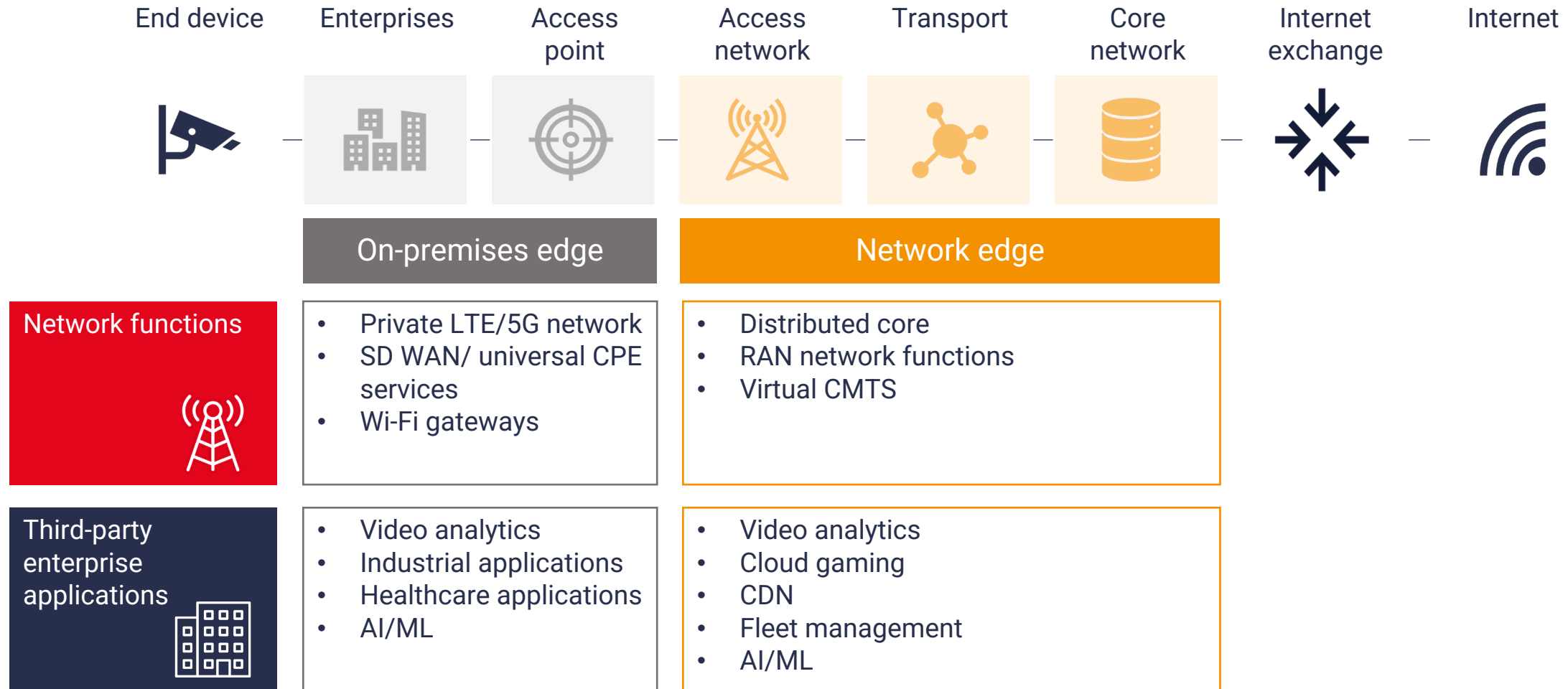


# The drivers for enterprises/developers to adopt edge computing combine cloud and local compute capabilities



\*Local computing here refers to processing that occurs either on the end-device or on-premises using traditional, proprietary (and often monolithic) infrastructure

# Telco edge computing is divided along these dimensions, depending on type of application and where the edge is



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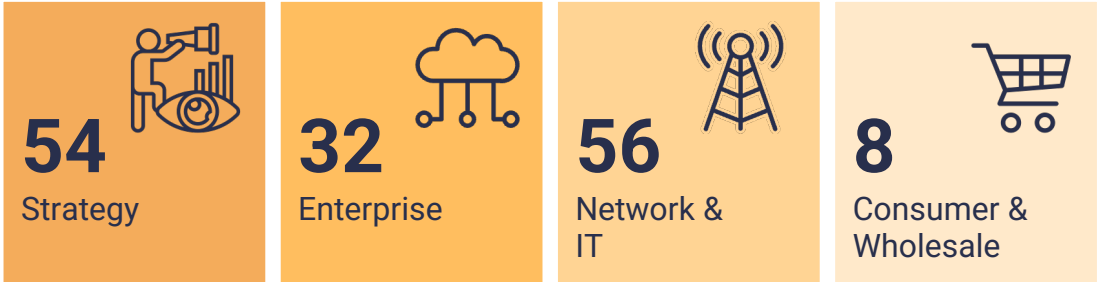
# This session will showcase insights from STL and Red Hat's ongoing research on edge computing...

STL Partners surveyed 150 telecoms operators globally between Dec 2020 - March 2021

## Respondents by region



## Respondents by business unit



## Example CSPs



# ...to understand how operators are investing in and building their edge infrastructure

## Executive summary



What is the edge opportunity for operators and enterprises?

Operators in Asia are converging edge infrastructure across network functions and third-party applications



How are operators building edge computing to support third-party applications and network functions?

Edge investments in third-party applications will accelerate over the next 5 years



How are operators working with partners to build their edge and take services to market?

Operators are beginning to use hyperscaler infrastructure to monetise edge for third-party enterprise applications



What enterprise use cases should operators in Asia focus on?

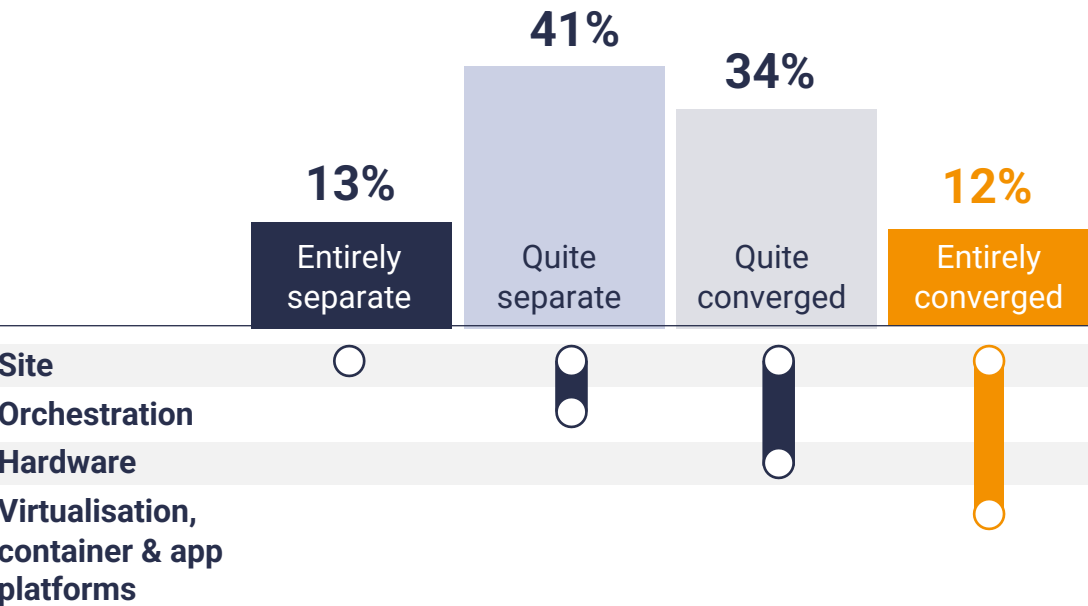
Multi-cloud will dominate the telco edge, and operators should invest in developing ecosystems and hybrid cloud capabilities

# Overall, CSPs will not fully consolidate edge infrastructure for network functions and third-party applications

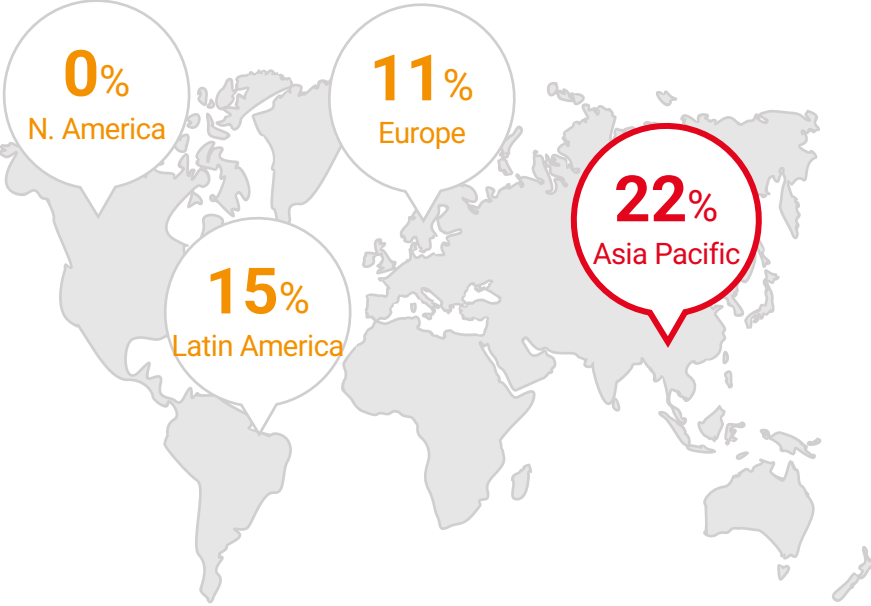
**12%** of CSPs believe that they will fully converge their edge infrastructure

**22%** of CSPs in Asia support shared edge orchestration, higher than other regions

Level of convergence which of the following are shared between network functions and 3rd-party apps:



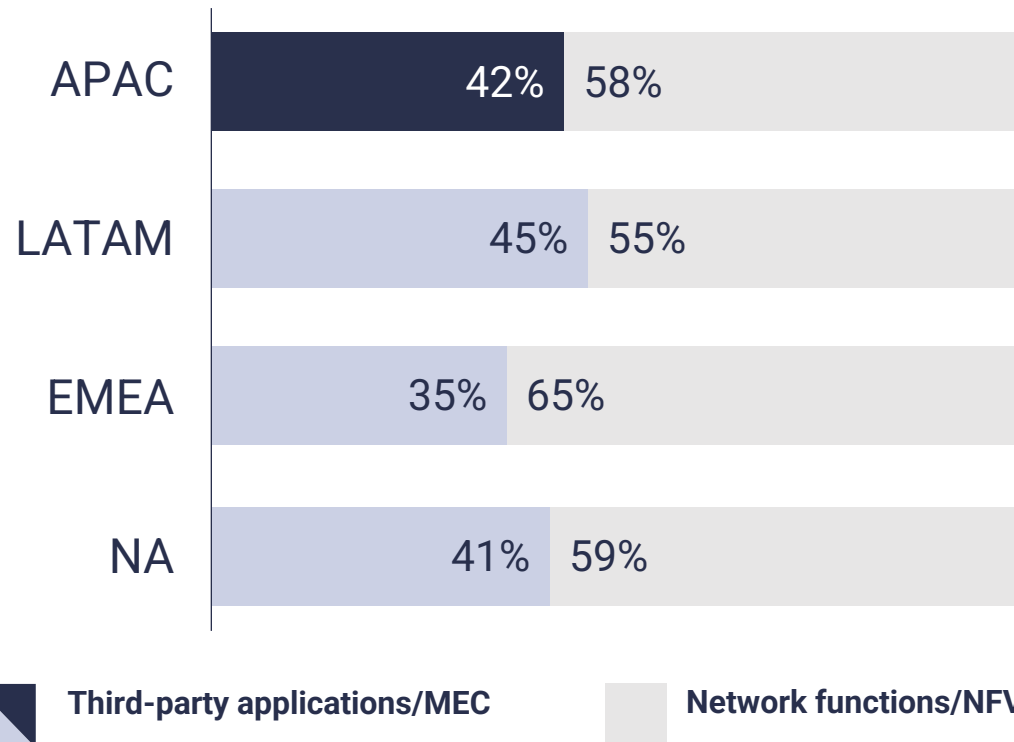
Support for “entirely converged” edge (as defined on the left) varies from region to region :



# While edge investments are mostly focused on network functions today, relative to third-party applications...

**42%** of edge investments in Asia will be allocated to third-party applications in the near term

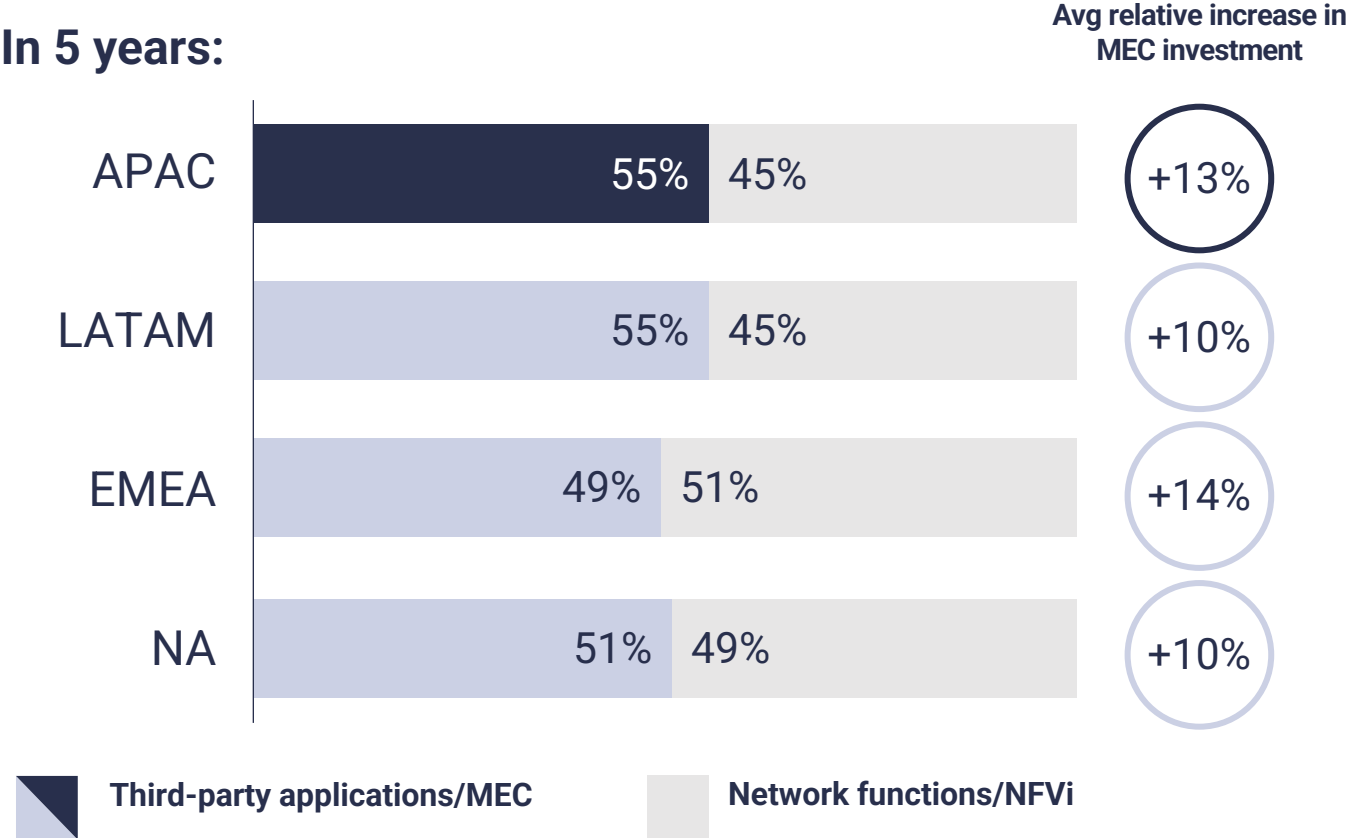
In 1-2 years:





# ...Investment in third-party applications will continue to accelerate in the next 5 years

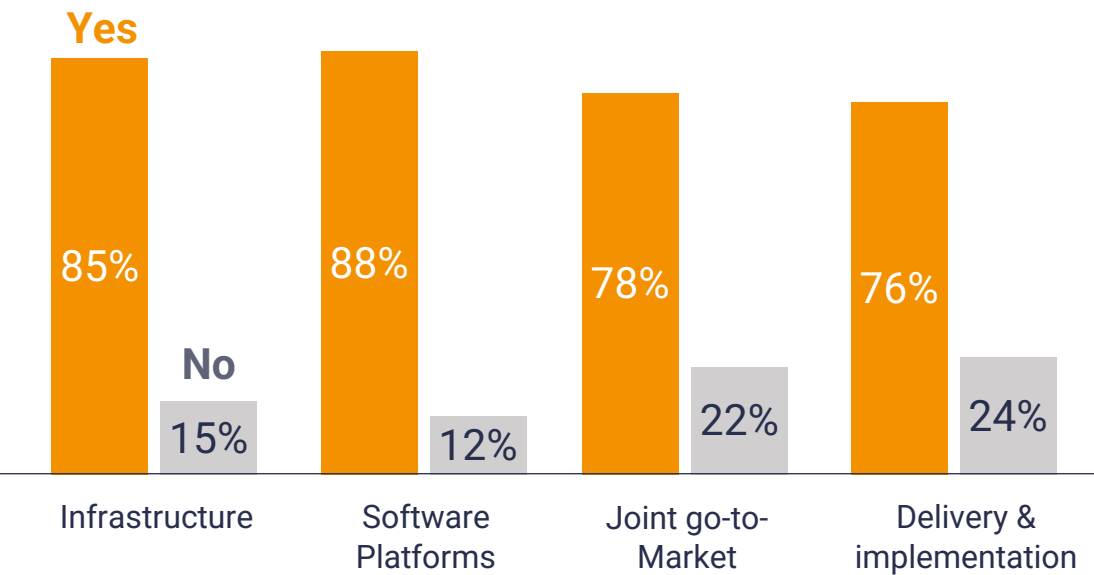
**55%** of edge investments in Asia will be allocated to third-party applications in 5 years



# CSPs are beginning to engage with hyperscalers in order to monetise edge for third party applications

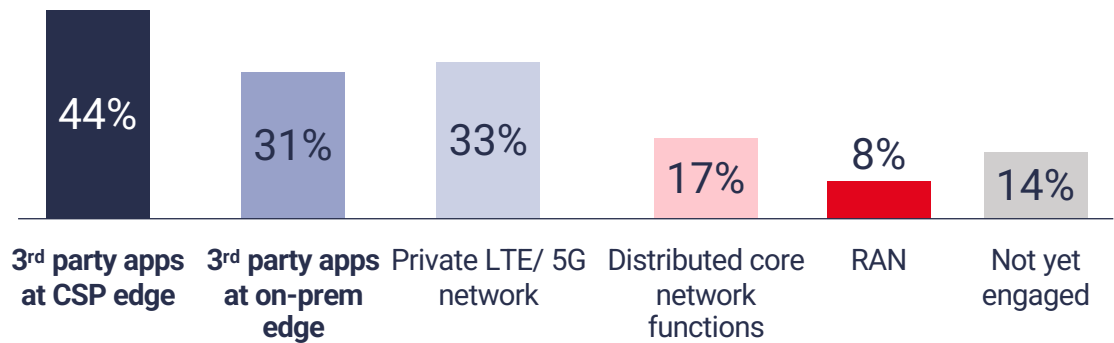
CSPs are already beginning to engage or partner with hyperscalers across the edge value chain

% of CSPs considering or already engaging with hyperscalers today at each stage:



44% of CSPs say that they are already engaging hyperscalers to build 3rd party apps at CSP edge

% of CSPs considering or already engaging with hyperscalers today at each edge domain:

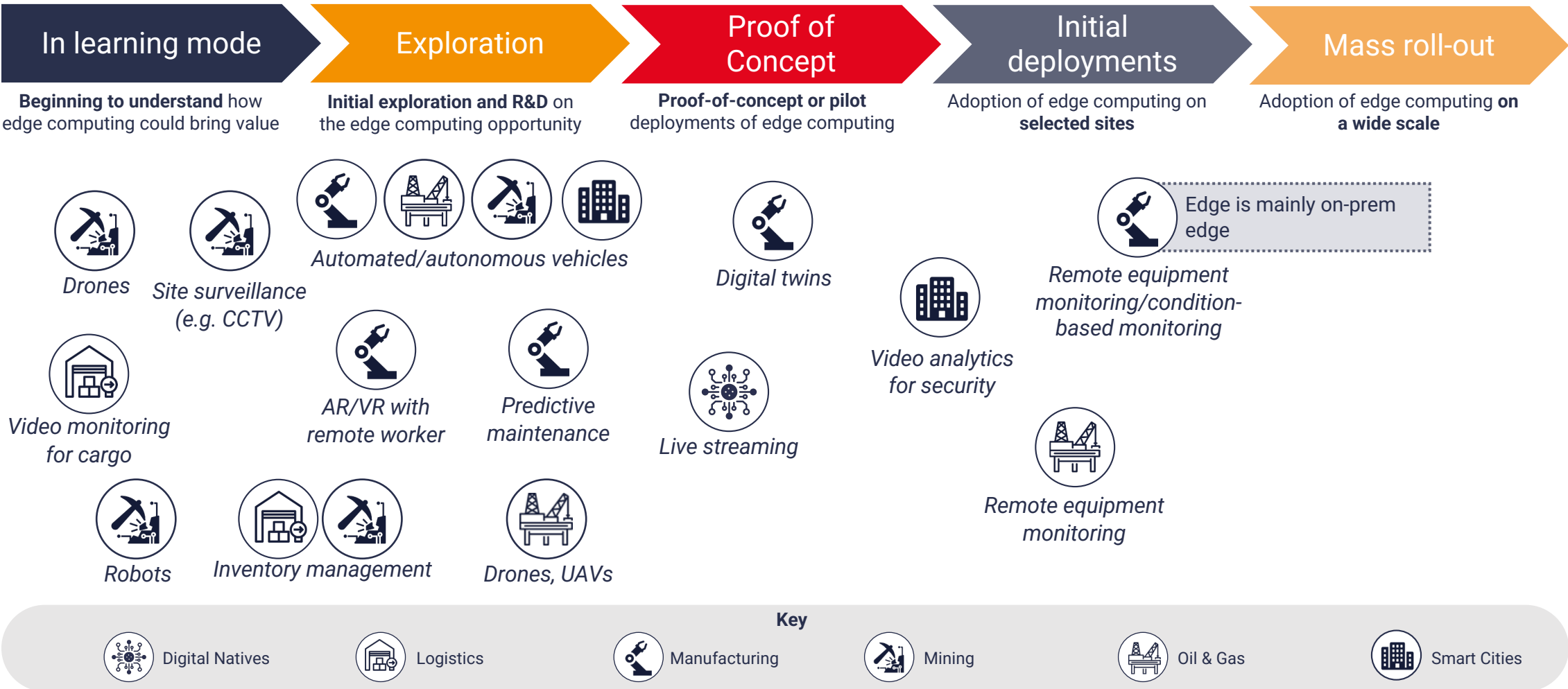


## **Poll: In which industry sector(s) are you seeing the most interest in 5G and edge use cases?**

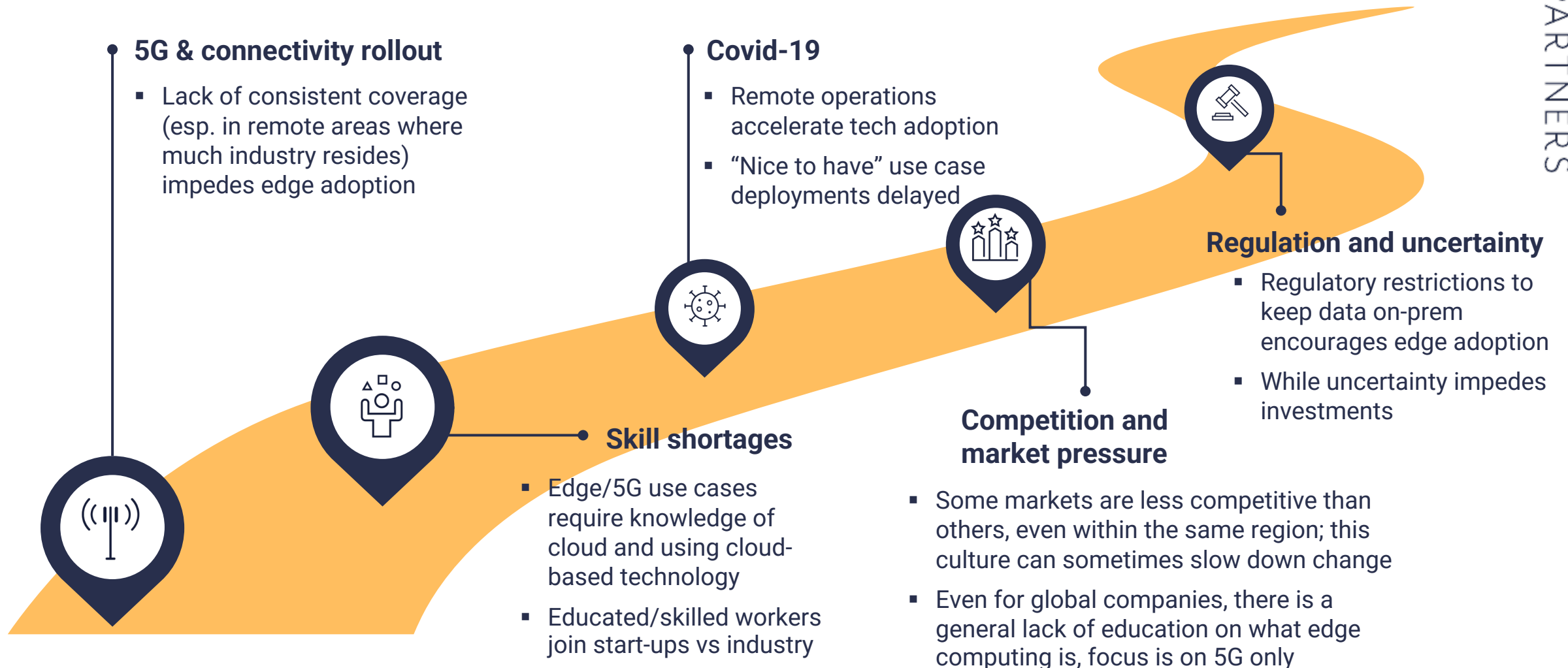
1. Energy & extractives, such as oil and gas, mining
2. Healthcare, for example in hospitals for patient care
3. Manufacturing, incl. process, discrete or automotive manufacturing
4. Transport & logistics incl. warehouses, sea ports and airports
5. Other

# Overall, adoption for edge computing is at an early stage in developing Asia markets

Stage of edge use case adoption in developing Asia markets



# The main factors influencing 5G and edge adoption are coverage, employee skills/education, and regulation

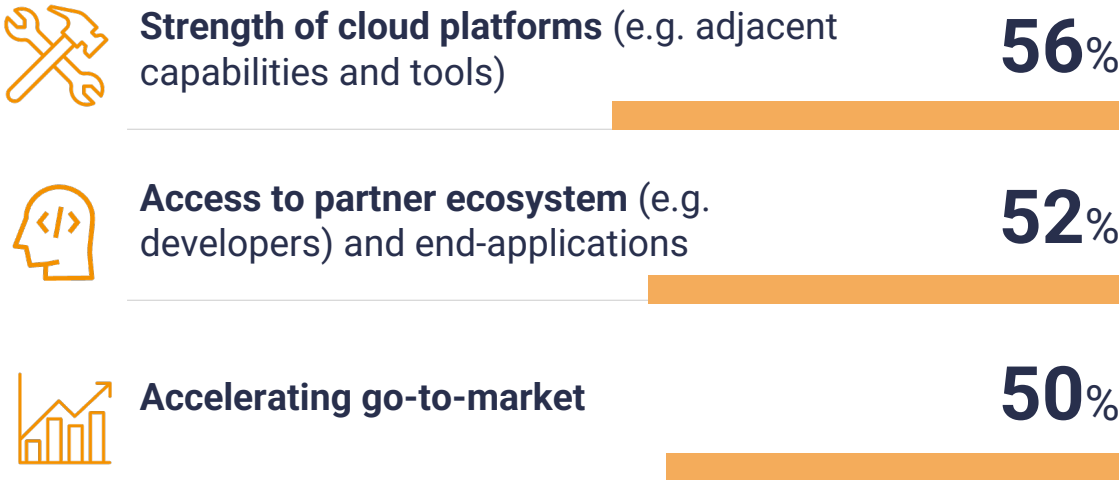


# CSPs are partnering with hyperscalers to benefit from their strong cloud platforms and to accelerate go-to-market for edge applications

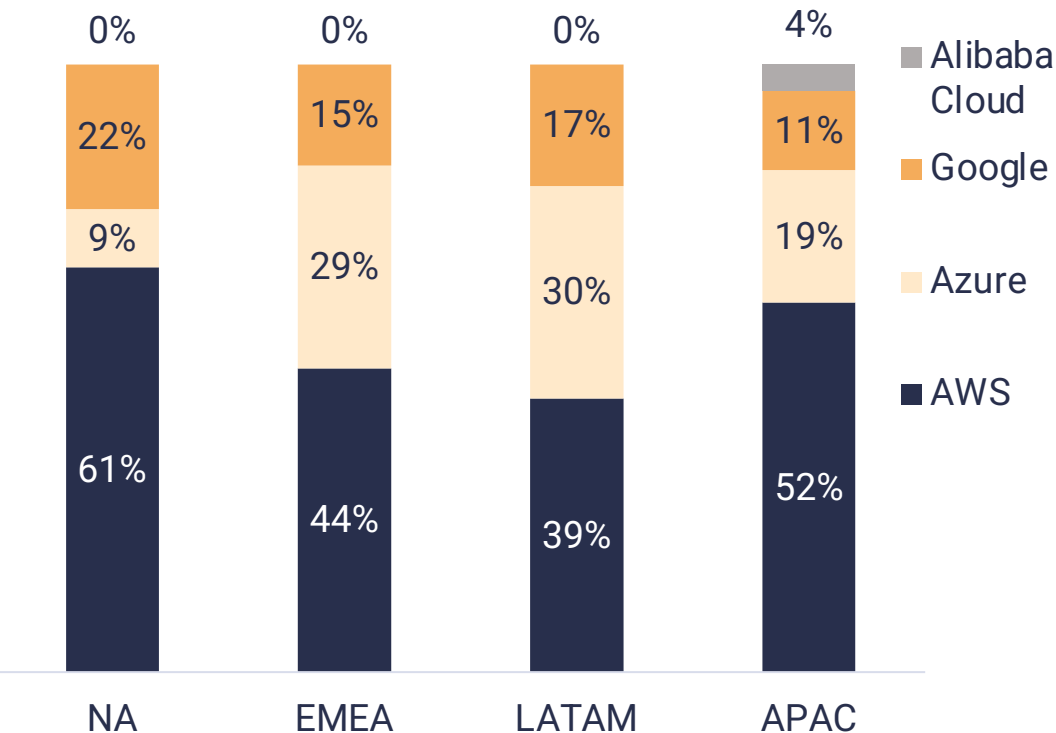
**56%** of CSPs consider 'strength of cloud platforms' as a key driver for partnerships

**54%** of CSPs consider AWS as the preferred partner for edge computing overall

## Top 3 perceived benefits of partnering with hyperscalers:



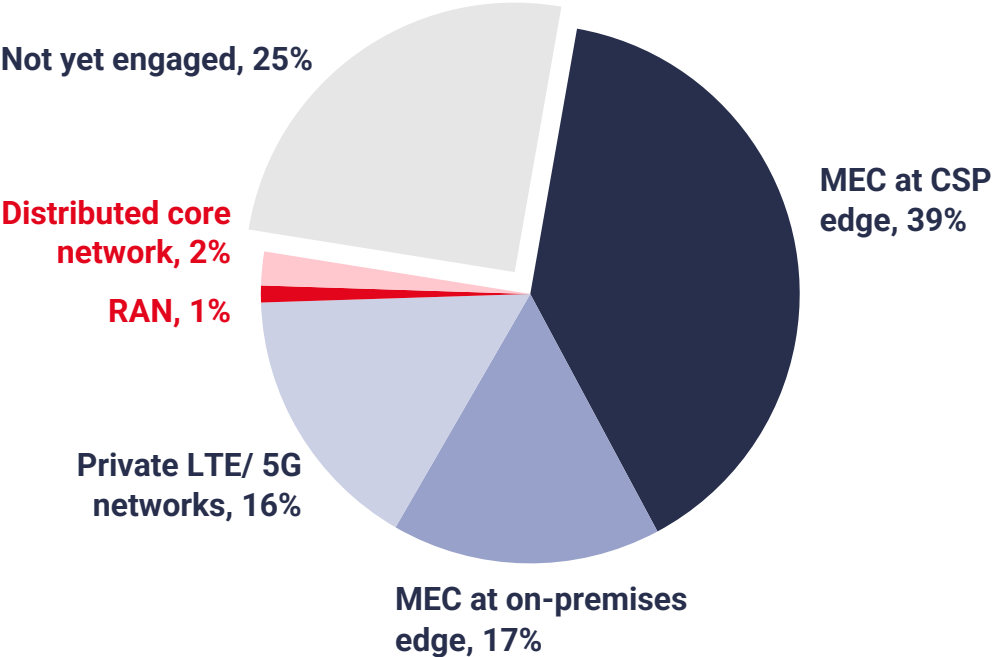
## Most preferred cloud provider:



# Hyperscaler involvement in provisioning telco networks will also remain low in the next 5 years

RAN and core networks are the least mature domains for hyperscaler-CSP partnerships today

% of CSPs believe hyperscaler partnerships in the following edge domains are the most mature:



Different BUs have varying concerns for using hyperscaler infrastructure and platforms for edge

For commercial teams (e.g. Strategy, Enterprise, Wholesale):


- 


**1** Reducing overall share of revenue from edge services
- 


**2** Hyperscalers threat of becoming telecom companies
- 

**3** Limits competitive differentiation (CSPs partnering with same HCPs)

For technical teams (e.g. Network, IT):

- 

**1** Hyperscalers threat of becoming telecom companies
- 

**2** Difficulty integrating with existing network components
- 

**3** Difficulty moving workloads to other cloud platforms

# Telco edge will be multi-cloud and CSPs should invest in developing ecosystem partnerships and hybrid cloud capabilities



## **CSPs should have a clear edge computing strategy, starting with infrastructure:**

- Infrastructure management and orchestration
- Customer service platforms
- Operations and field management



## **There is no single edge – it is multi-cloud:**

- CSPs increasingly consider hyperscaler partnerships as inevitable for monetising edge computing.
- However, CSPs will have to engage with different partners (including vendors and hyperscalers) to meet different customers' needs with a hybrid edge cloud.



## **CSPs should evaluate ecosystem partnerships against three drivers:**

- Developing specialist applications for use cases in specific verticals
- Providing end-to-end enterprise solutions with best-of-breed components
- Helping accelerate GTM, delivery and integration with enterprise customers



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# Panel discussion and Q&A



# Panellists



**MICHAEL TADAULT**

Chief Technologist Telco,  
Asia Pacific

**Red Hat**



**DHARMA SIMORANGKIR**

SVP Enterprise Account  
Management

**Telkomsel**



**KIM KROGH ANDERSEN**

Group Executive, Product &  
Technology

**Telstra**

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# Our upcoming webinar this month

Thursday 16 September

11AM EST | 5PM CEST

UPCOMING WEBINAR

## Telco strategies in edge computing and private networks



**TIMO JOKIAHO**  
Chief Technologist, Global  
Telco Ecosystem

Red Hat



**PHILLIP COLEMAN**  
Director of Product  
Marketing Management

AT&T



**ANDRÉS ESCRIBANO**  
New Business & Industry 4.0  
Director

Telefónica Tech



**NAREN MUTHIAH**  
Strategy and Business  
Design – New Growth &  
Development

Cox



**YESMEAN LUK**  
Senior Consultant & Telco  
Cloud Practice Lead

STL Partners



Thursday 16 September – 11AM EST | 5PM CEST



Red Hat



PARTNERS

[Link to register here](#)

# Thank you to everyone for joining

We hope you enjoyed the session!

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If you have any further questions, please email:

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- **Timo Jokiaho**, [tjokiaho@redhat.com](mailto:tjokiaho@redhat.com)