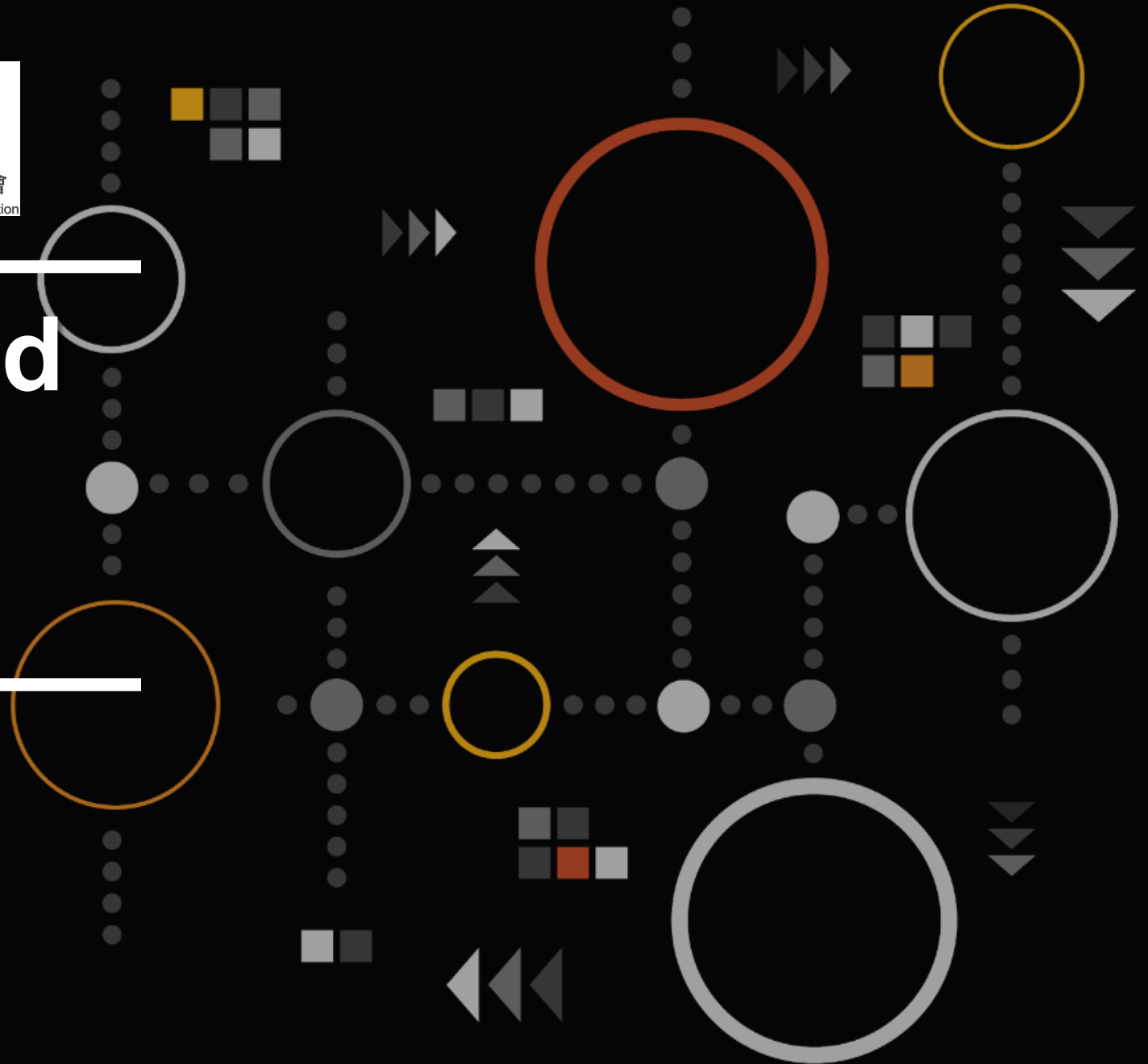




Debunking Cloud Transformation Mystery

30th October 2020



Welcome & housekeeping

- Please mute your microphone and/or devices.
- We will share the presentation after the session.
- If you have any technical issue, please feel free to contact us through the “chat function”
- You are welcome to **raise questions to us at anytime** by typing in the **Q&A** function.
- We will try to answer your questions towards the end of the webinar.

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Speakers Introduction

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It is no longer 'if', but 'when and how' to move to cloud



When Cloud Meets COVID-19, Opportunities and Threats Emerge

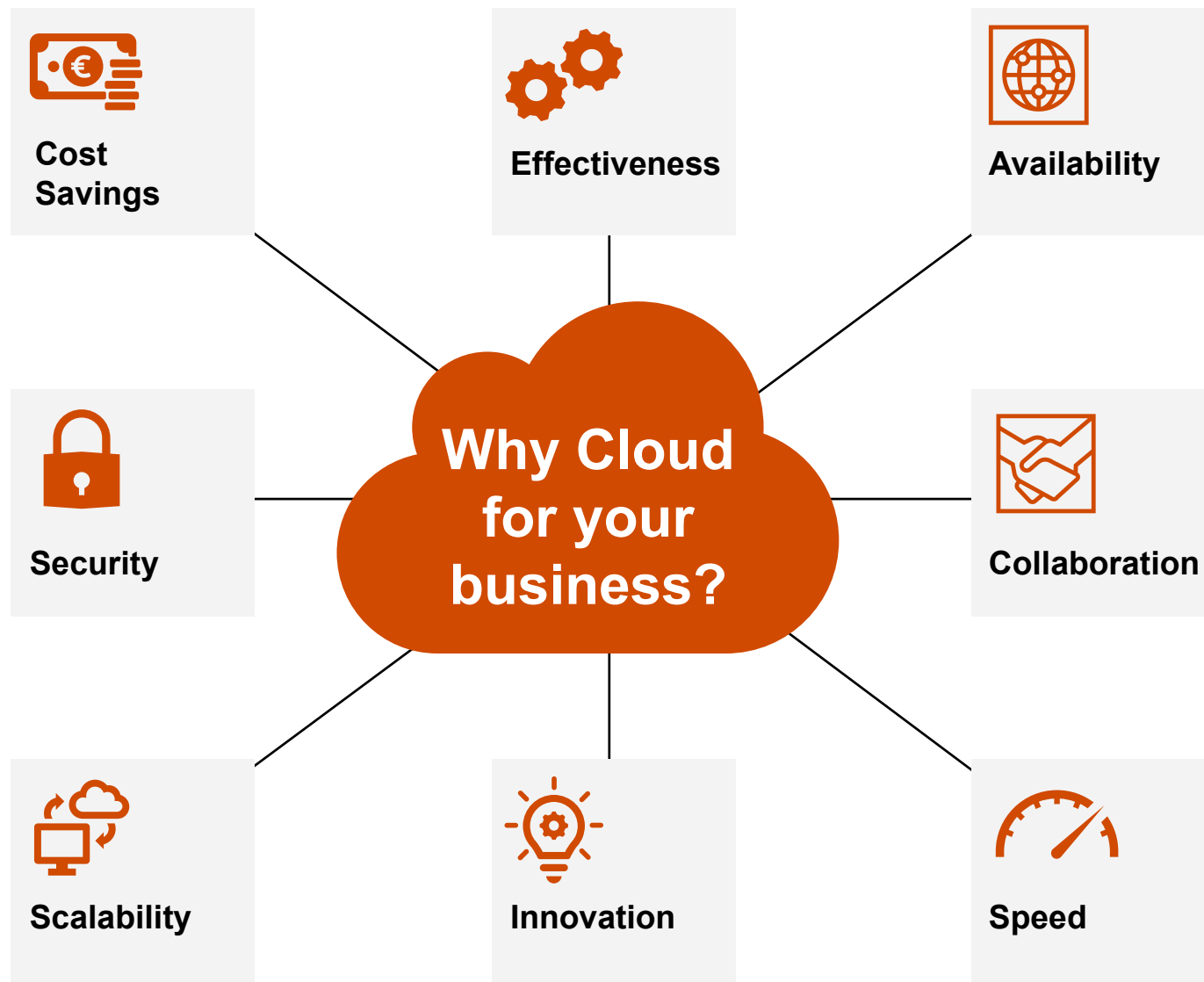
As we continue to maneuver through the uncertainty from the pandemic, cloud has been ever so important in helping companies achieve greater efficiency, and driving business change and agility.



We view cloud as an enabler for digital business transformation

Cloud is a **disruptive innovation** that challenges traditional business and IT models by changing how technology products and services are provided and consumed. The cloud deliberately hides the foundational technical and operational complexity from clients so they can get on with their real jobs. With increasingly less dependency on internal IT, cloud allows **tech orchestration to be more business-led and easier** than ever before.

We need to assist our clients across multiple dimensions along the cloud journey to align their goals and capabilities with cloud-enabled growth.



Business Drivers for Cloud Adoption



Agility & Flexibility



Security & Operational Resilience



Innovation & Ecosystem Opportunities



Resource Utilization & Cost Management



Digital & Data Transformation

Benefits



High Availability



Rapid Scaling



Greater Speed & Agility



IT Cost Management

Barriers



Security & Data Loss Concerns



Skillsets and Capabilities



Integration to Legacy Environment

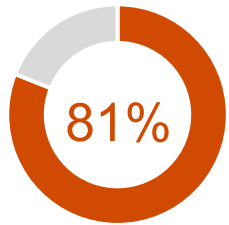


Loss of Control

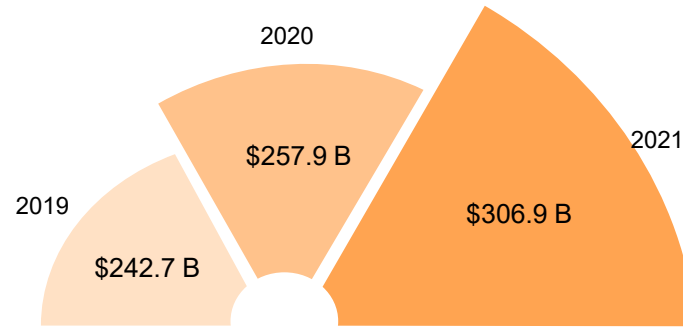
Cloud Adoption and Transformation is now a Global Trend

Cloud has emerged and become a **primary delivery platform** for leaders across the globe

Growth in cloud adoption



of organizations **already use** cloud computing or have applications in the cloud – **up from 73%¹** in 2018.



The worldwide public cloud services market is **forecast to grow** from \$257.9 billion in 2020 to **\$306.9 billion in 2021**.² The effects of the global economic downturn are intensifying organizations' urgency to **move off of legacy** infrastructure operating models.

Growth in cloud budget



32%

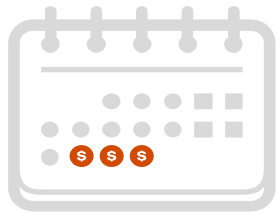
of total IT budget will be allocated to cloud computing within 2021.¹

Growth in cloud investment



59%

increase in cloud investment from 2018 to **\$73.8 million in 2020**¹ on average.

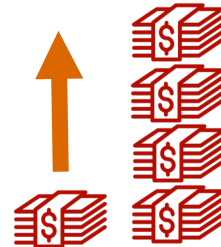


By 2024, annual global spend on cloud IT infrastructure is predicted to grow at a **8.4% CAGR** to reach **\$100.1 billion**.³



55%

of enterprises already have **more than half** of their workloads on cloud by the end of 2019.⁴



IaaS spending could rise from \$44 billion in 2019 to **\$80.6 billion²** in 2022 (183% increase).



74%

of IT leaders believe workloads will be run in the cloud within **next 5 years**.⁵



78%

of IT leaders anticipate their company's workloads will reside in **hybrid cloud**.⁵

Source:

1. IDG Cloud Computing Survey, 2020

2. Gartner July 2020 - Gartner Forecasts Worldwide Public Cloud Revenue to Grow 6.3% in 2020

3. IDC Cloud IT Infrastructure Spending, 2020

4. IDC Cloud Security Survey, 2019

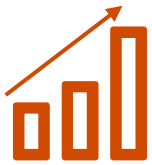
5. LogicMonitor Evolution of IT Research Report, 2020

Resilience and Growth for Businesses in Asia Pacific



CAGR 25%

Spending on public cloud and related services is growing at CAGR of 25% across Asia-Pacific, faster than US and Western Europe.



Double by
2023

Cloud spending is forecasted to double by 2023



45%

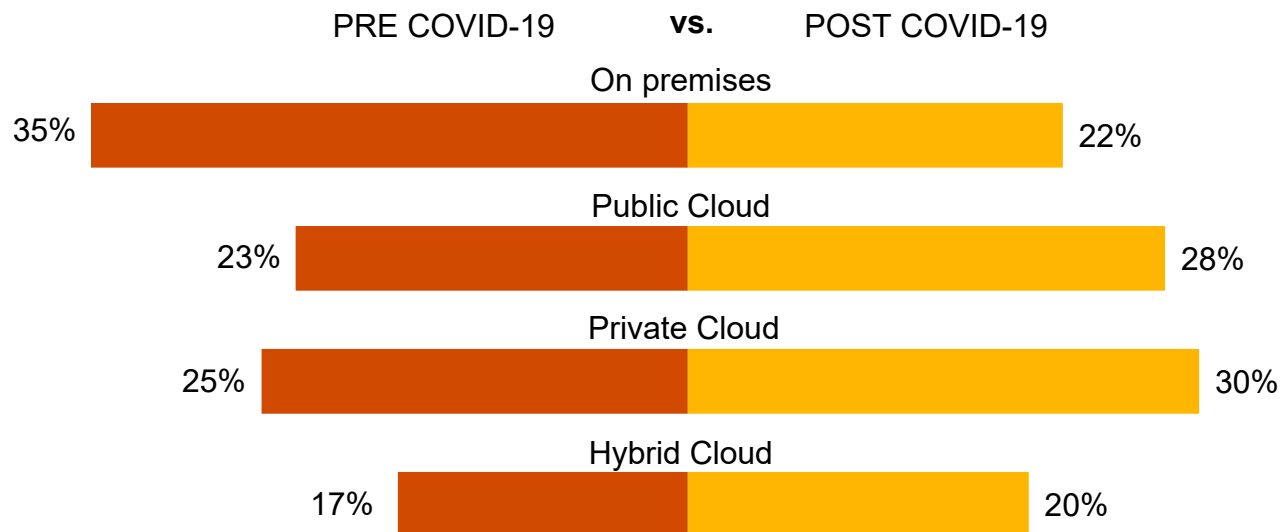
45% has cybersecurity concerns and choose to not host specific data on the public cloud

Source: BCG Businesses in Asia-Pacific Can Find Resilience and Growth in the Cloud, 2020

The Pandemic Further Accelerates Cloud Adoption

Where are the Workloads?

Workloads are rapidly moving from on premises to the cloud



IT Leaders believe the acceleration to cloud will continue

87%

of IT leaders believe the COVID-19 pandemic is causing organizations to accelerate their migration to the cloud

65%

of IT leaders said their workloads were in the cloud **before COVID-19**

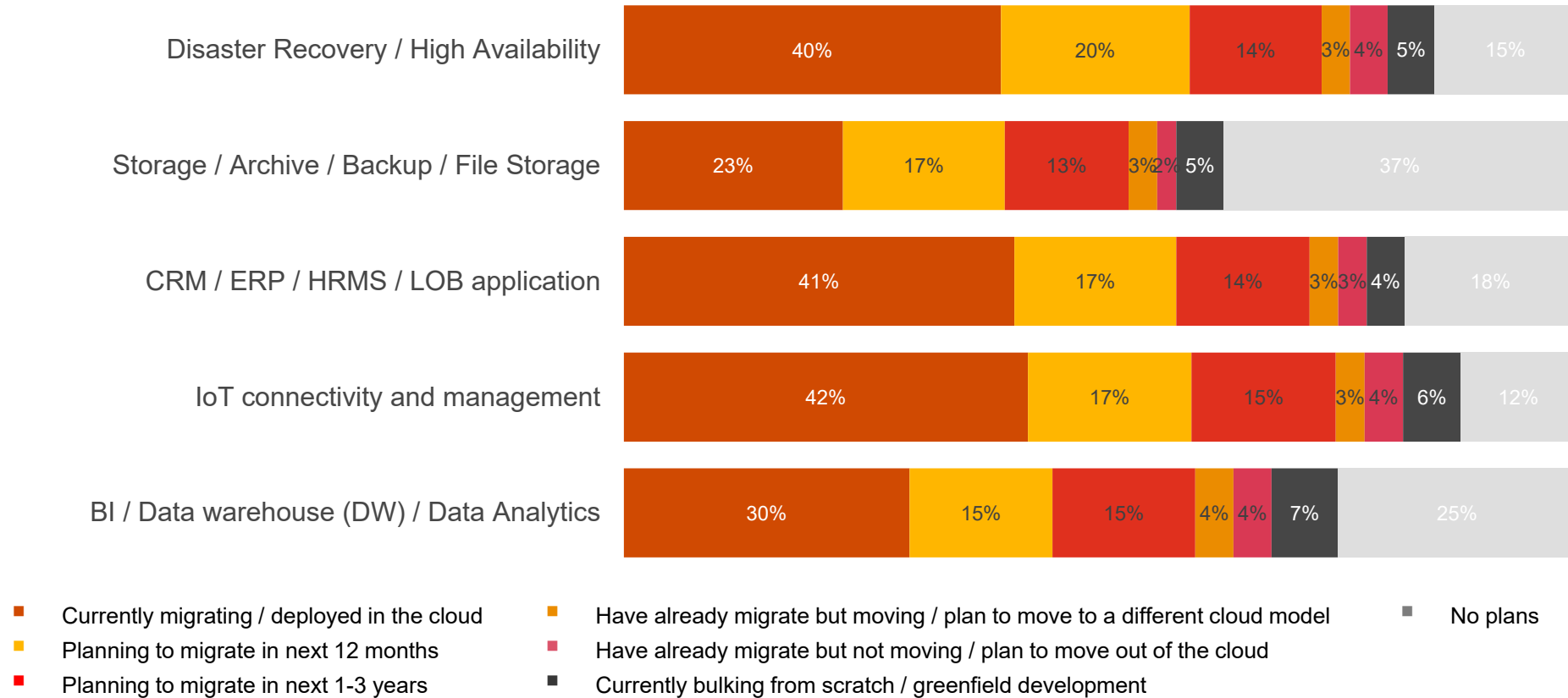
78%

say that their company's workloads will reside in the hybrid cloud after COVID-19

Source: LogicMonitor Evolution of IT Research Report, 2020

Leaders are Planning and Migrating Essential Workloads to Cloud

Application & Services being Migrated to the Cloud

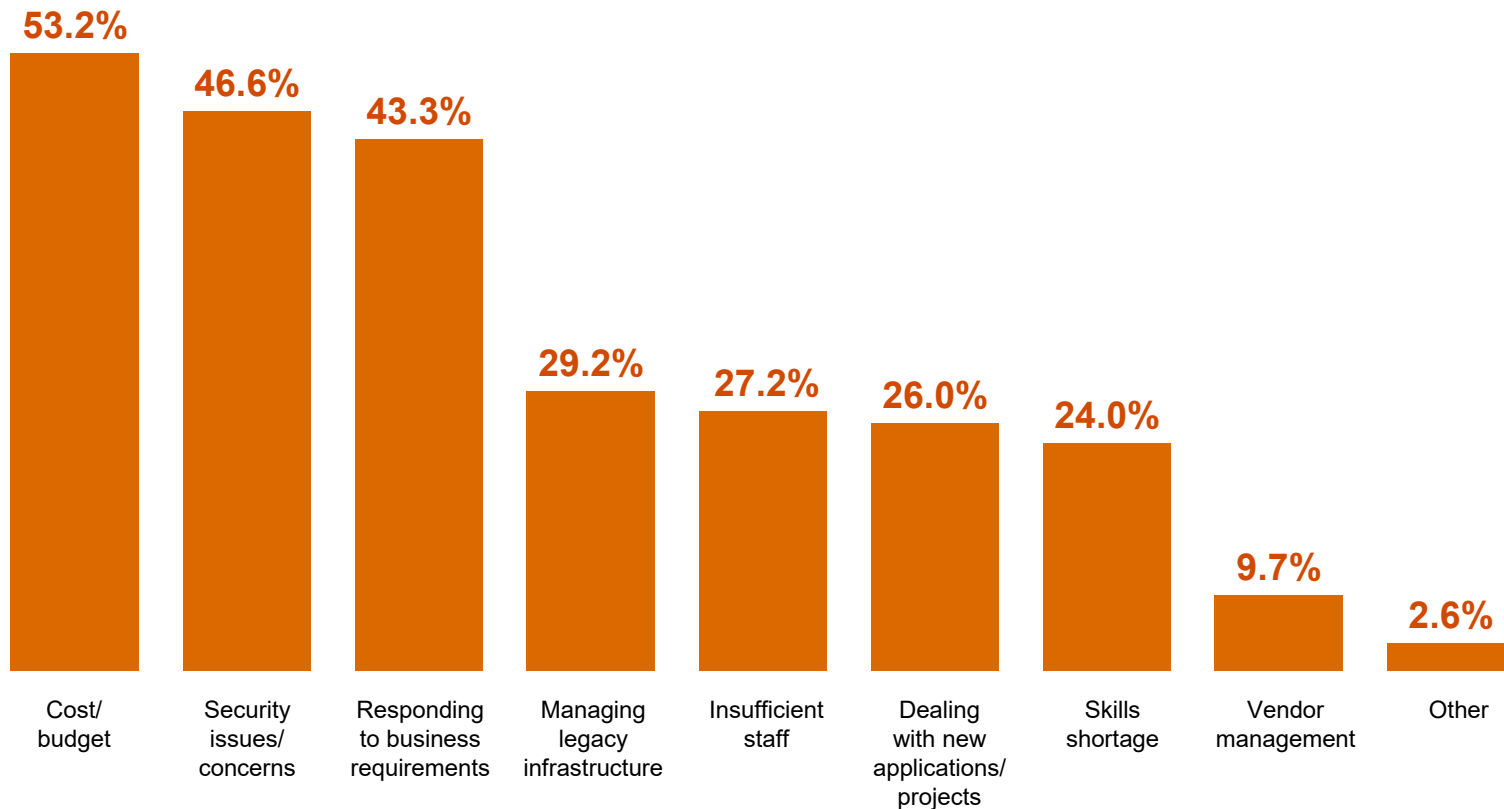


Source: IDG Cloud Computing Survey, 2020

Customer Challenges from Adopting to Cloud

PwC's **Cloud Transformation Solution** specifically addresses challenges enterprises face to make their cloud journey more **efficient** and **accelerate value**.

Number of Customers Facing Cloud Adoption Challenges (%)



KEY INSIGHTS:

Obtaining **economic value** and **optimizing spend** is one of the biggest challenges our clients face.

Security concerns and **rapidly changing business challenges** are other top concerns.

A foundational issue is designing the **operating model** of the enterprise to align with cloud.



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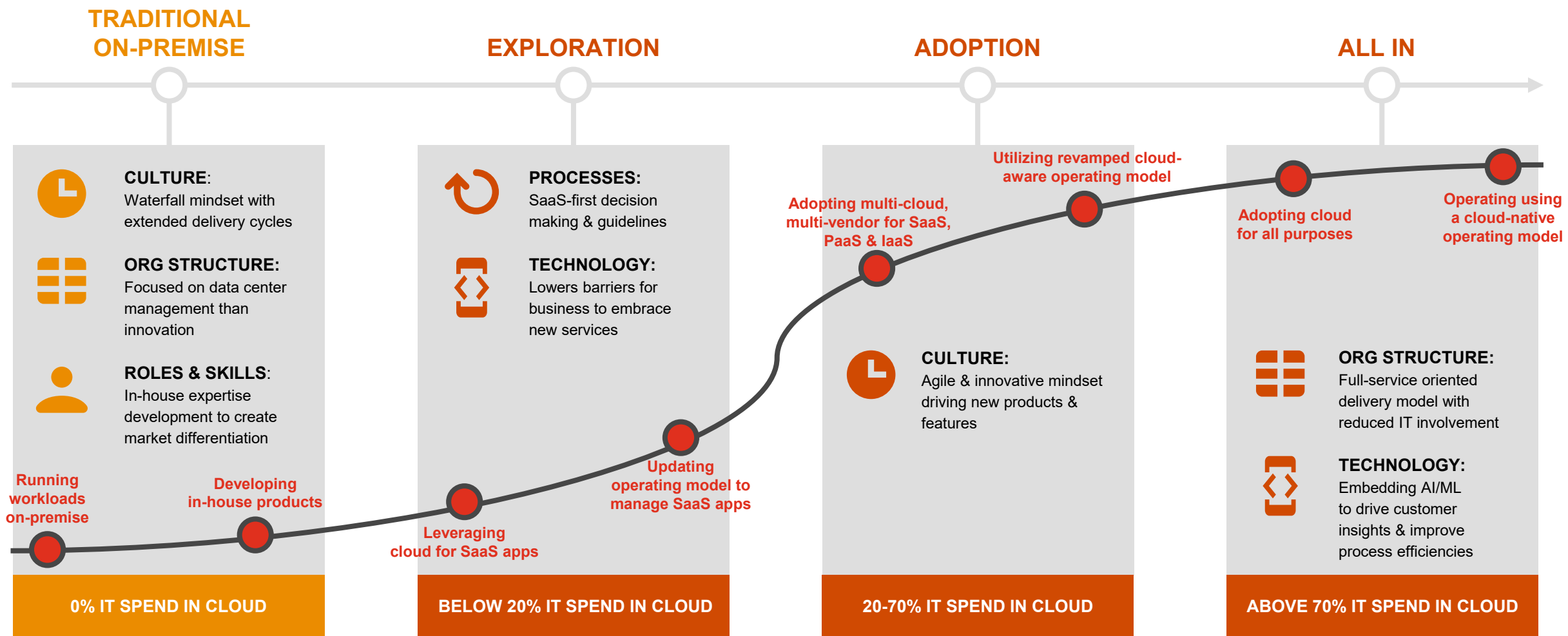
**Lessons
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Cloud Maturity Curve

We observed organisations in various adoption phases have different needs and challenges based on their spend in cloud and adoption level of cloud services.



Successful Transformation Programs Begin by Laying the Right Foundations

Based on our experience, clients that properly build out the cloud foundation are best positioned to quickly scale and extend the cloud foundation capabilities and thereby reap the most value from their transformation program

JOURNEY TO CLOUD

Laying the foundation

Establishing core Cloud-first capabilities...

- Accounts and subscriptions
- Connectivity
- Identity and security
- Cloud services
- Cloud operations
- Financial management
- Regulatory compliance

Maturing the foundation

Operating in the right choice of Cloud for your business...

- Different Cloud options (Public, Private, Hybrid)
- Matured cloud services (e.g., containers and microservices)
- Policies and governance embedded in automation
- Key SaaS implementation
- Cloud migration factory repeatable and ongoing
- Cloud native for new development
- Cloud centre of excellence (CoE) accelerating cloud adoption

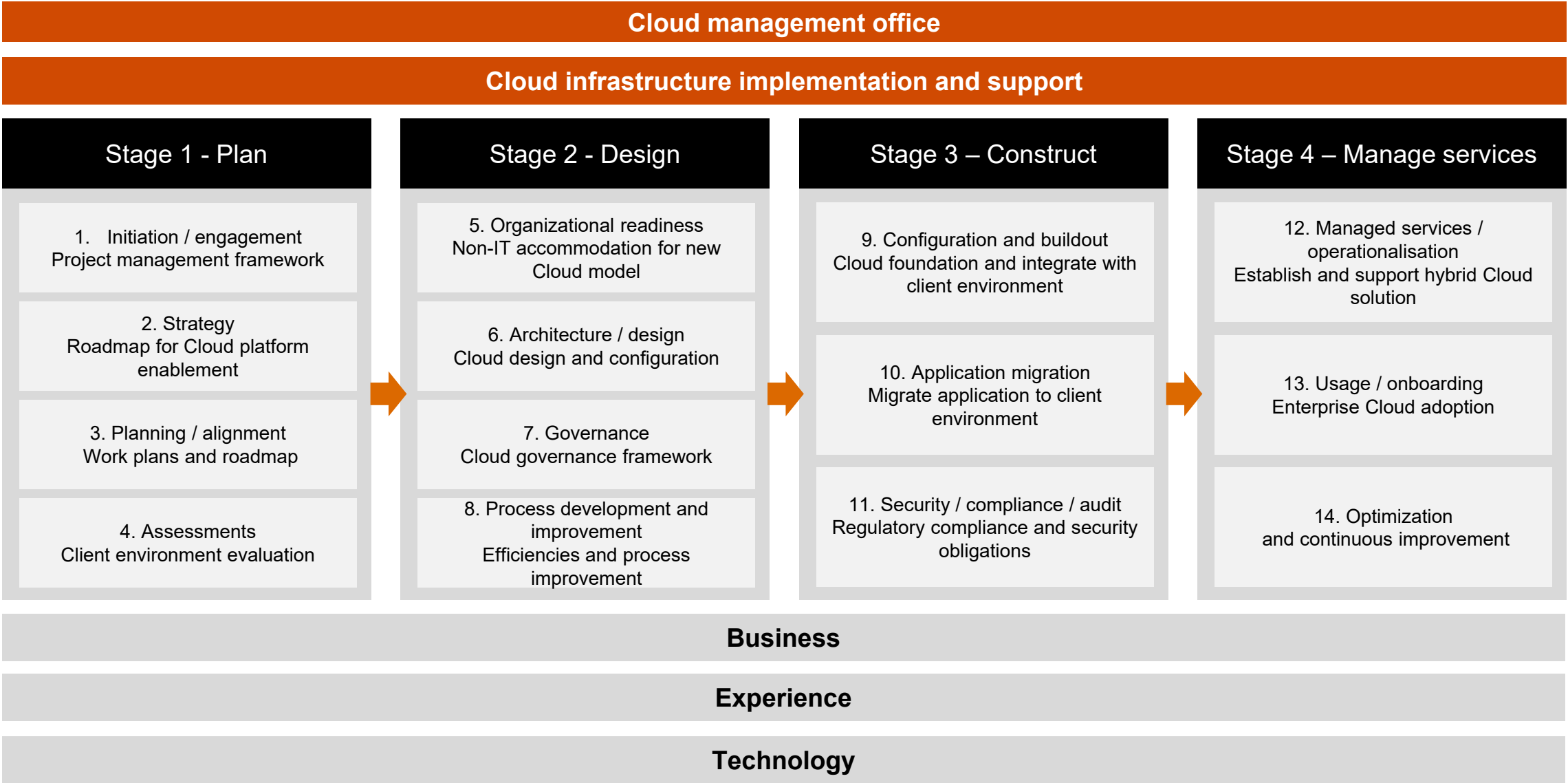
Evolving cloud capabilities

...towards a zero data centre environment by 2020 and beyond.

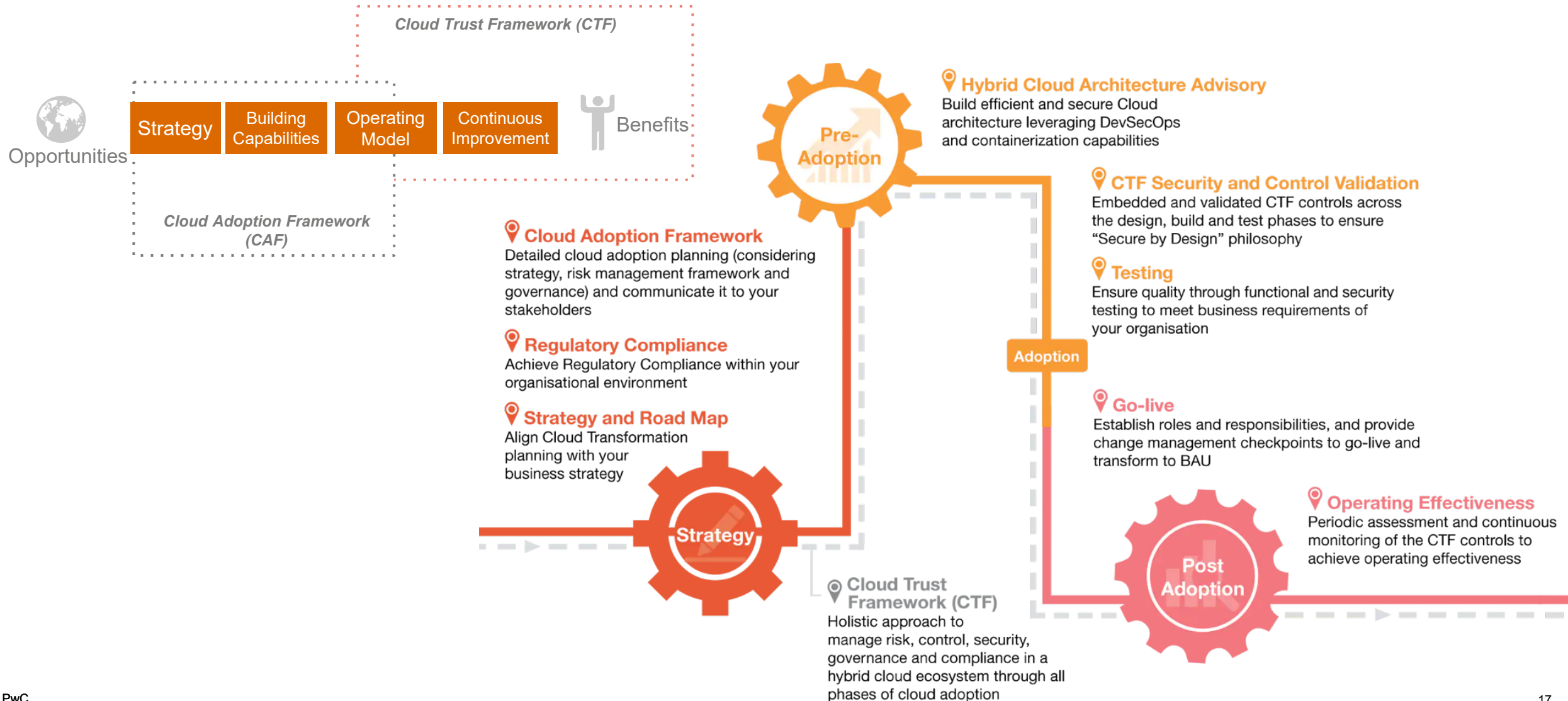
Seamless integration of new services to deliver faster, more stable and secure business capabilities

- Scalability, agility and ability
- Resilience, stable and secure platform
- Self-provisioning and automation as a rule
- Reduced development cycles (time to market)
- Pay for what you use (cloud only)
- Governed disruption
- IT as a partner of business innovation

Our Cloud Transformation Methodology



Roadmap to Safe and Secure Cloud Journey



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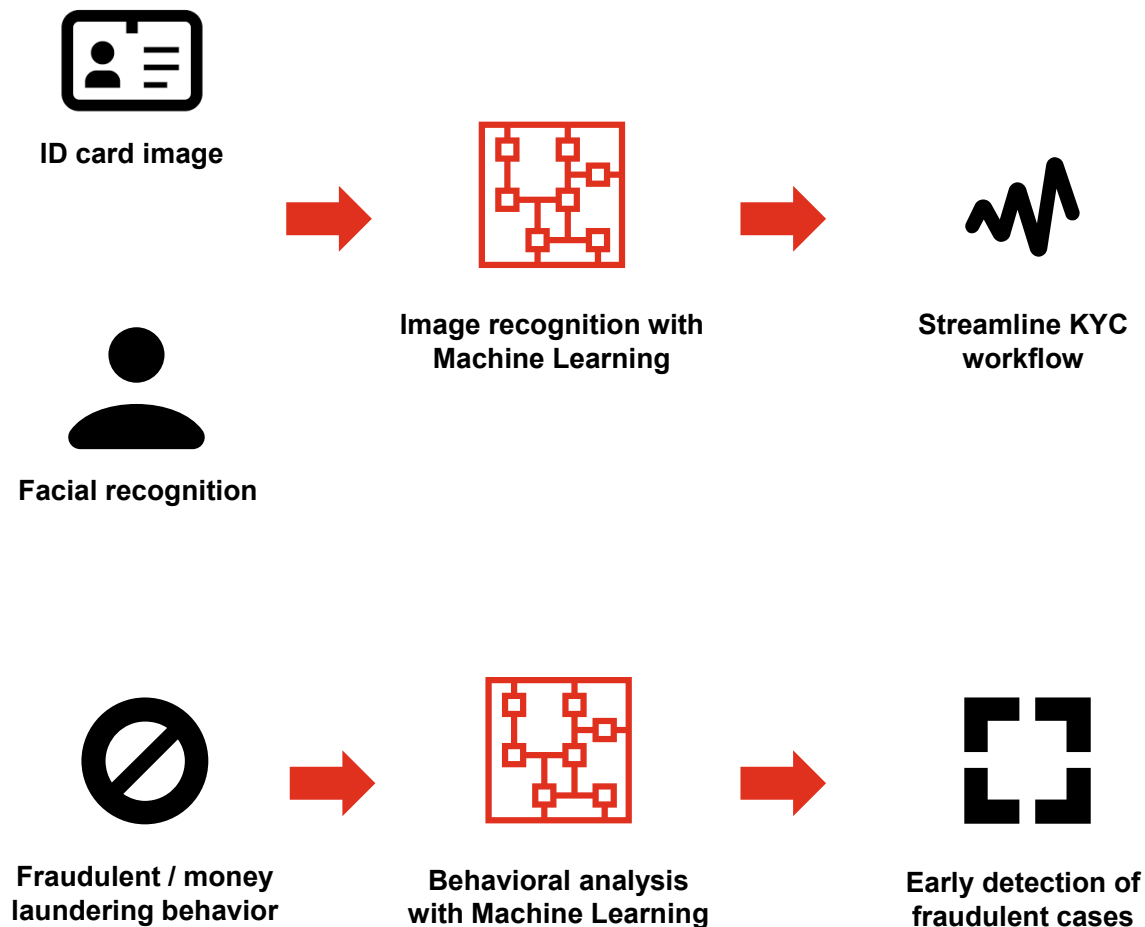
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eKYC, fraud detection and AML



Fit-for-cloud
Assessment



Cloud Design &
Architecture
Workshop



Cloud Strategy
and Roadmap



Landing
Zone Build-out

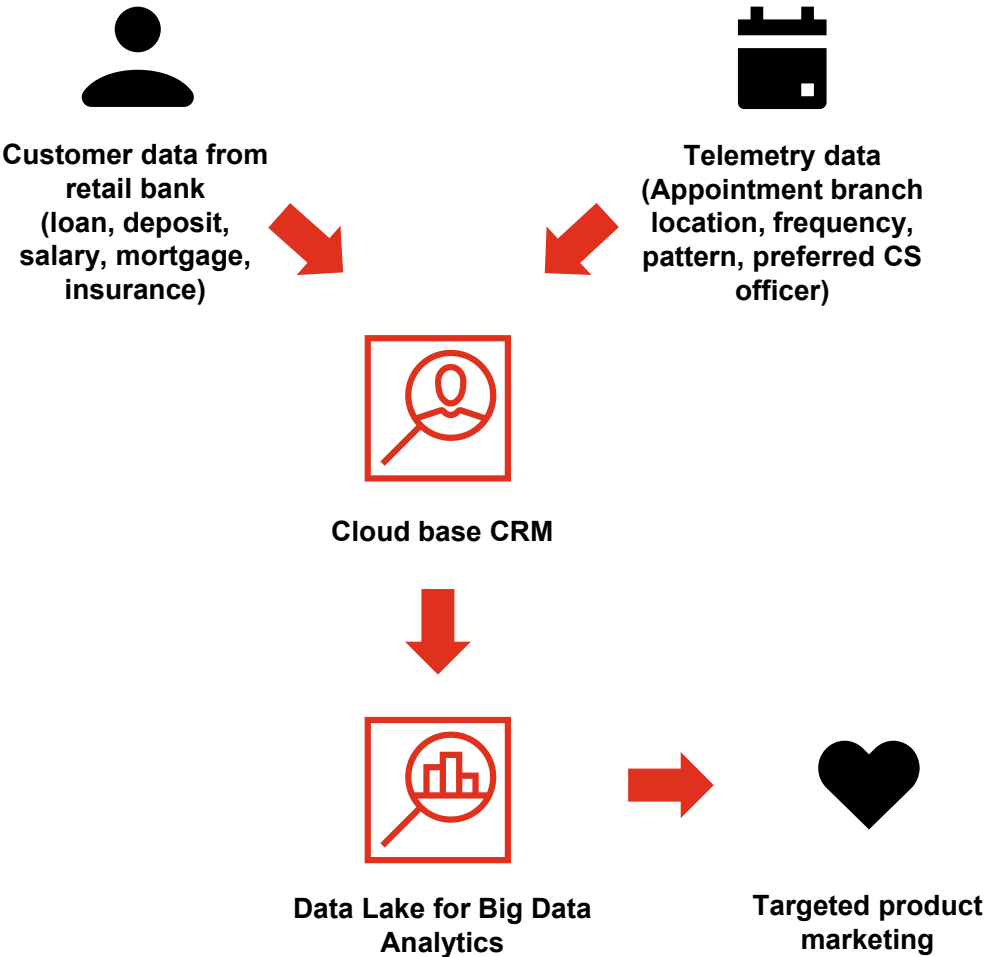


Cost
Optimisation



Security and
Compliance

Customer Relationship Management, Data Analytics and Marketing



Fit-for-cloud
Assessment



Cloud Design &
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and Roadmap



Landing
Zone Build-out



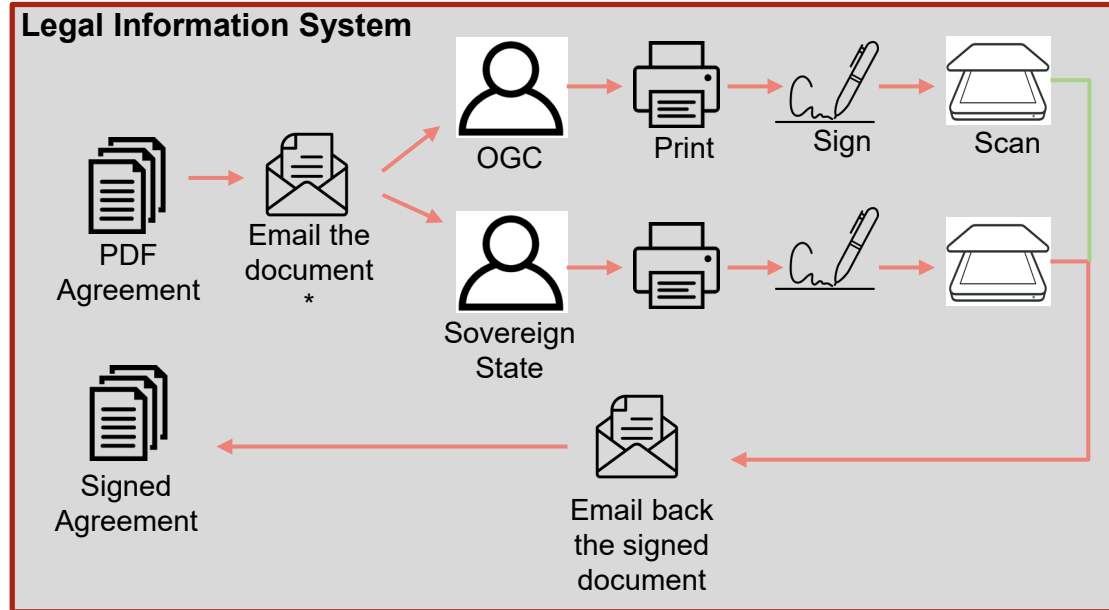
Cost
Optimisation



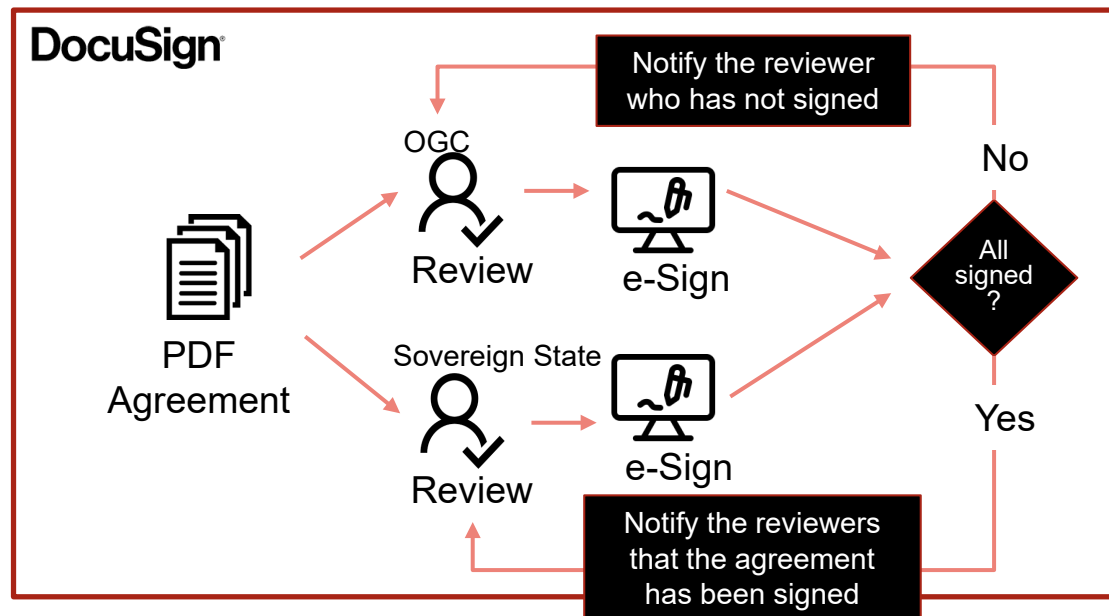
Security and
Compliance

eSignature

[Before]



[After]



Fit-for-cloud
Assessment



Cloud Design &
Architecture
Workshop



Cloud Strategy
and Roadmap



Landing
Zone Build-out



Cost
Optimisation



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7 Key Lessons Learned in Cloud Transformation Journey

Cloud strategy provides 6x **reduction in cost**, 20x **decrease in provisioning cycle time**, and provides **real business value**

Key Issues	Lessons Learned	What can be done about this
 Security Concerns	While cloud platforms provide security and scalability for applications, it is important to consider all cloud-based security solutions to ensure information security and recoverability , especially when cloud providers and/or vendors are involved.	<ul style="list-style-type: none">• Security by design architecture• Independent review of cloud infrastructure• Third party assurance report• Supplement additional security stack to integrate with database and applications on public cloud
 Data Protection	As critical data will reside on the cloud, organizations must consider the implementation of various data protection measures , adoption of security tools or scale security across cloud applications, and/or the engagement of capable security partners .	<ul style="list-style-type: none">• Ensure an adequate level of encryption for all data on the cloud• Define access rights and enforce multi-factor authentication requirements
 Laws & Regulation	The movement to public/private/combo of clouds may be constrained by local regulatory requirements . The cloud model chosen and its operations must fulfil and comply with various security and regulatory standards .	<ul style="list-style-type: none">• Use zone-specific clouds according to jurisdiction within data regulation boundaries• Conduct independent reviews to satisfy concerns of the regulators

7 Key Lessons Learned in Cloud Transformation Journey

Cloud strategy provides 6x **reduction in cost**, 20x **decrease in provisioning cycle time**, and provides **real business value**

Key Issues	Lessons Learned	What can be done about this
 Vendor Selection	Vendors should be selected depending on an organization's infrastructure needs and the flexibility of components & services offered. Reliability of a provider and the availability of services provided may often be more important than cost considerations .	<ul style="list-style-type: none">• Conduct careful vendor selection exercises to ensure sufficient choices and the availability of alternatives• Remediate vendor risks by considering independent assessor and vendor management services
 Investment & TCO	Costs and investment budgets are one of the key constraints when moving to cloud. While reduction in operational costs is usually a key driver for cloud adoption/migration, an effective cloud model must be carefully selected to realize such cost-benefits .	<ul style="list-style-type: none">• Perform cost-benefit comparison of different options available – private cloud, public cloud, multi-cloud, hybrid cloud, etc.• Compare between costs and functionalities
 Skills & Competency	Cloud migration greatly affects company culture and its environment . Executives must set the right tone and strategy for its people, while the organization must evaluate the need for upskilling, reskilling or hiring talents to operate the cloud effectively and maximize its benefits .	<ul style="list-style-type: none">• Formulate an appropriate target operating model• Tailor to the corporate strategy, culture and values

An abstract geometric pattern on a dark background. It features various shapes including circles of different sizes (some solid, some outlined), squares, triangles, and lines of dots. Some elements are in shades of gray, while others are in a golden-brown color. The pattern is scattered across the left and top portions of the image.

**Sharing on
regulatory focus areas**

Sharing on certain regulatory focus areas in relation to the **adoption of cloud technologies**





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Thank you



Let us know of
your thoughts.



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