



Impact of cloud adoption and enabling policies in Asia-Pacific

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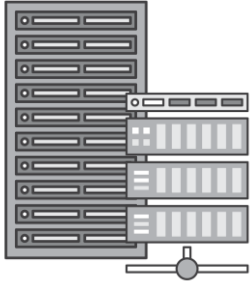
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What is cloud computing?

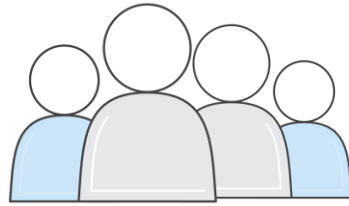


“Cloud computing” is the **on-demand** delivery of IT resources **via the internet** with **pay-as-you-go pricing**.

Traditional IT



Equipment



Resources and Administration



Contracts



Cost

Cloud computing



**No Up Front Expense
Pay for what you Use**



Improve Time to Market & Agility



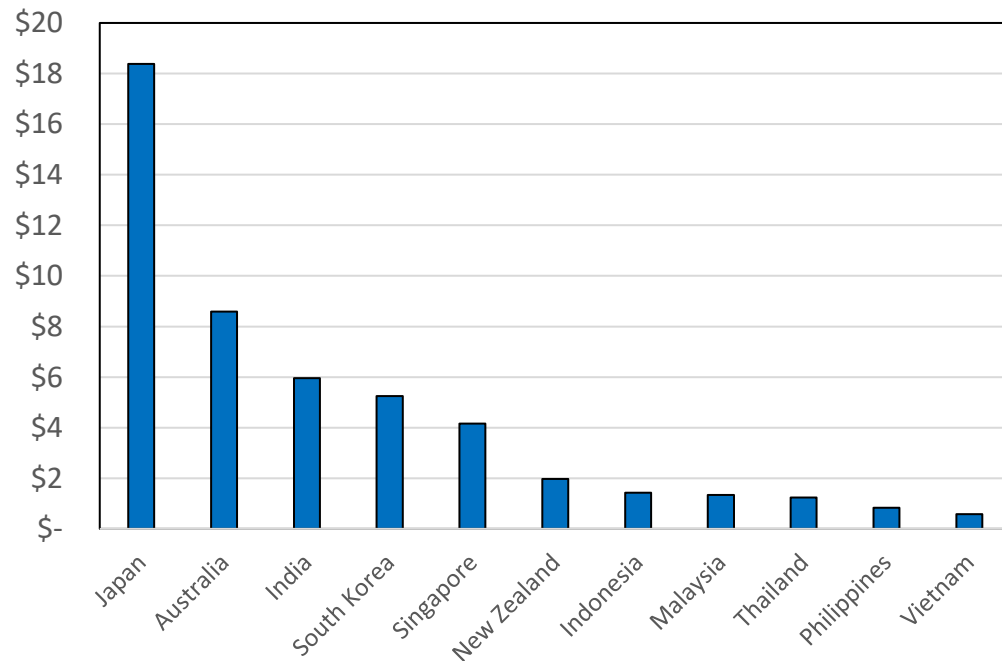
Scale Up and Down



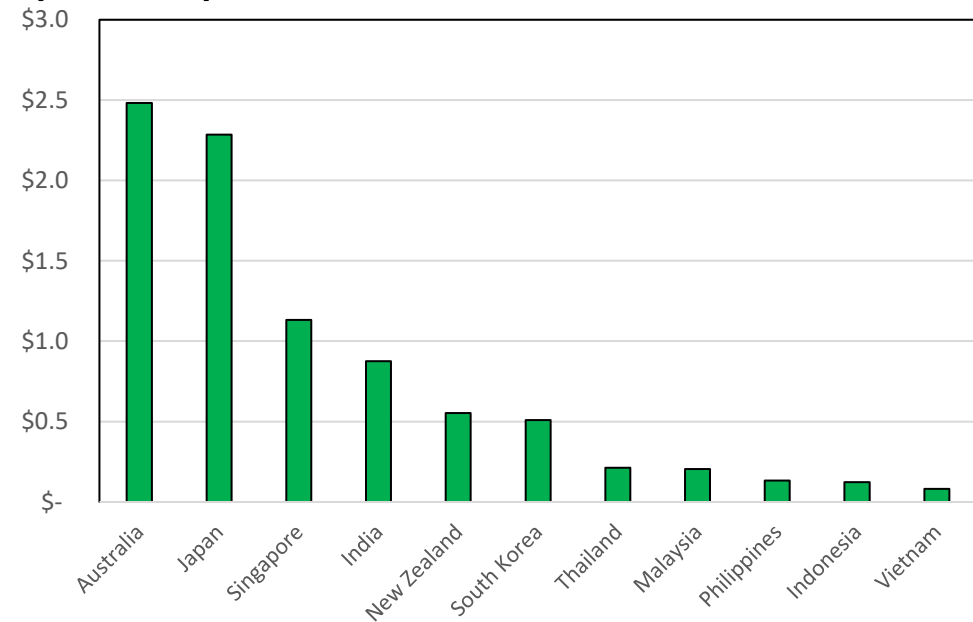
Self-Service Infrastructure

Asia-Pacific businesses and governments are moving to cloud for digital transformation

Total cloud spending (2023)



Public sector cloud spending (2023)



Sources: OECD Stat for Australia and New Zealand; Korea Ministry of Science and ICT and National Information Society Statistics; Japan Ministry of Internal Affairs and Communications; other countries estimated through predictions based on regressions running OECD values with other variables for which cloud country level data was available. "Economic Impact of Cloud Adoption in Asia-Pacific" (Telecom Advisory Services, 2023, forthcoming).

With multiple benefits for service delivery

Organization level

Efficiency gains: increased outputs with the same inputs for organizations adopting cloud.



Increased agility



Faster innovation

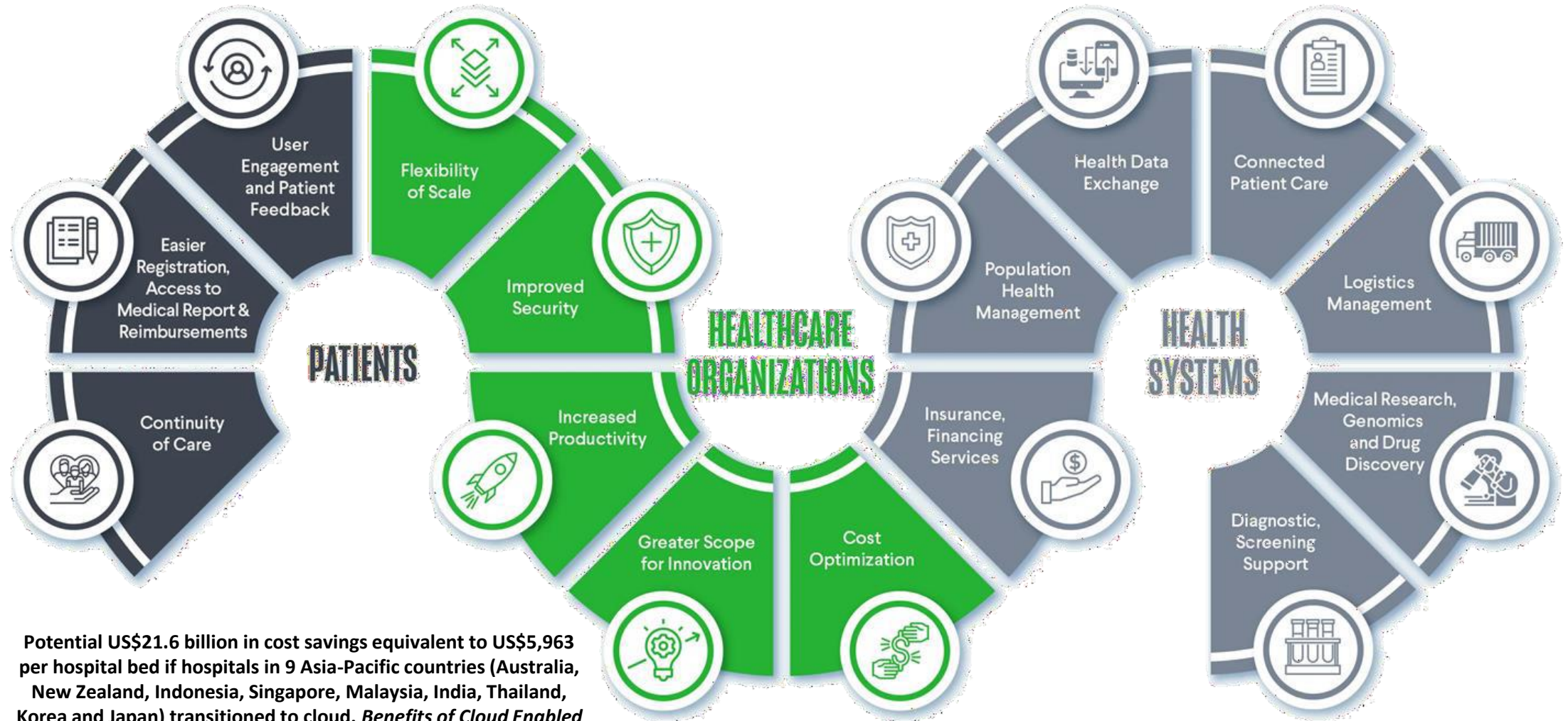
Country level

Spillover effects: economic growth resulting from the aggregate efficiency gains of all organizations adopting public cloud.



Cost savings

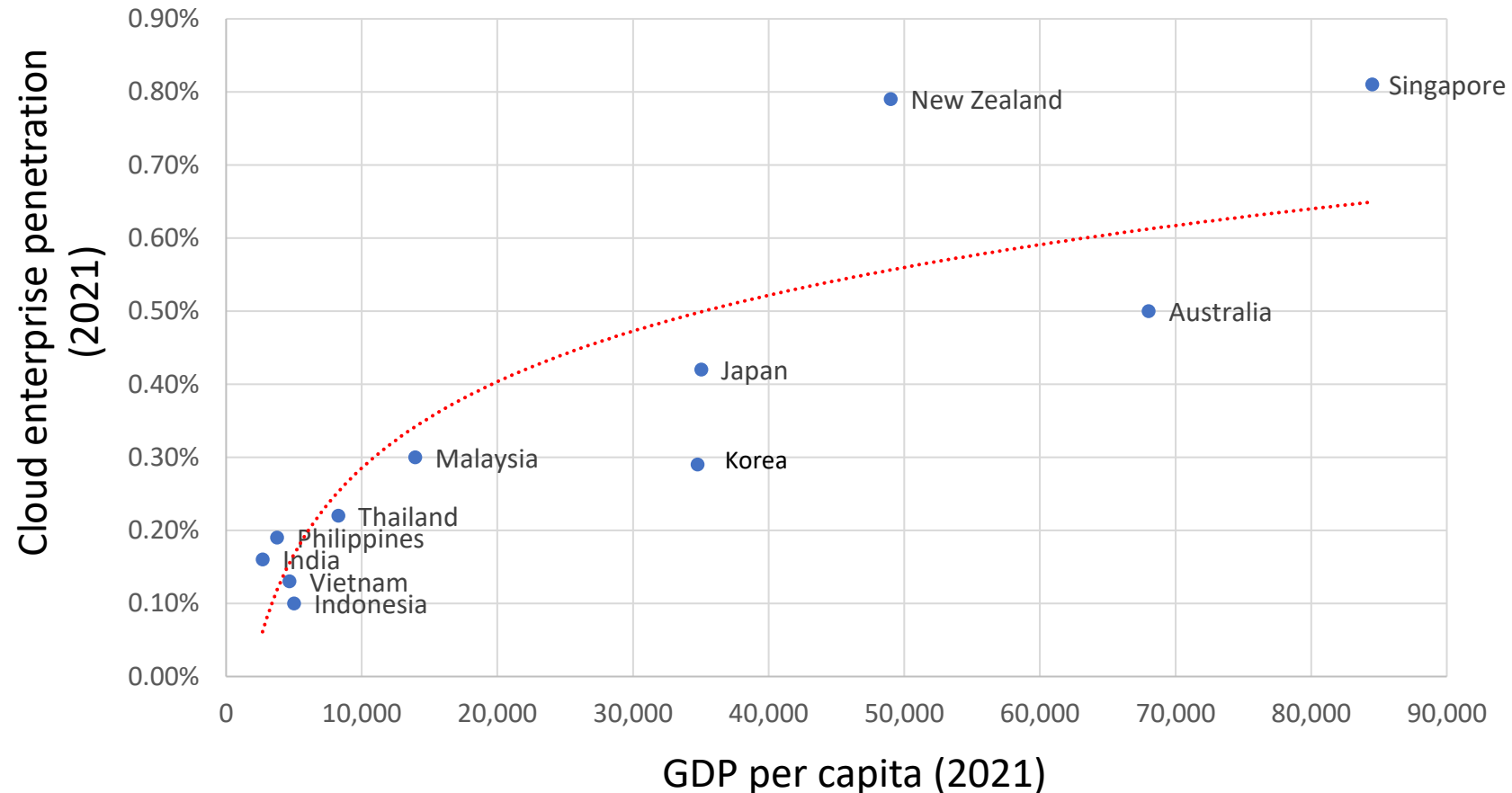
Cloud computing benefits for healthcare



Potential US\$21.6 billion in cost savings equivalent to US\$5,963 per hospital bed if hospitals in 9 Asia-Pacific countries (Australia, New Zealand, Indonesia, Singapore, Malaysia, India, Thailand, Korea and Japan) transitioned to cloud. *Benefits of Cloud Enabled Healthcare in Asia-Pacific, Deloitte, 2023*

While cloud adoption is correlated with the size of the economy, other factors appear to be at work

ASIA PACIFIC: GDP PER CAPITA VS. CLOUD PENETRATION (2021)



Sources: IDC; Statista; World Bank; Telecom Advisory Services “Economic Impact of Cloud Adoption in Asia-Pacific” (Telecom Advisory Services forthcoming, 2023)

Factors enabling cloud adoption and use

01

Cloud Policy/Strategy as part of government digitalization strategy

02

Risk based and outcomes-driven approach to data governance, data classification, data security and risk management

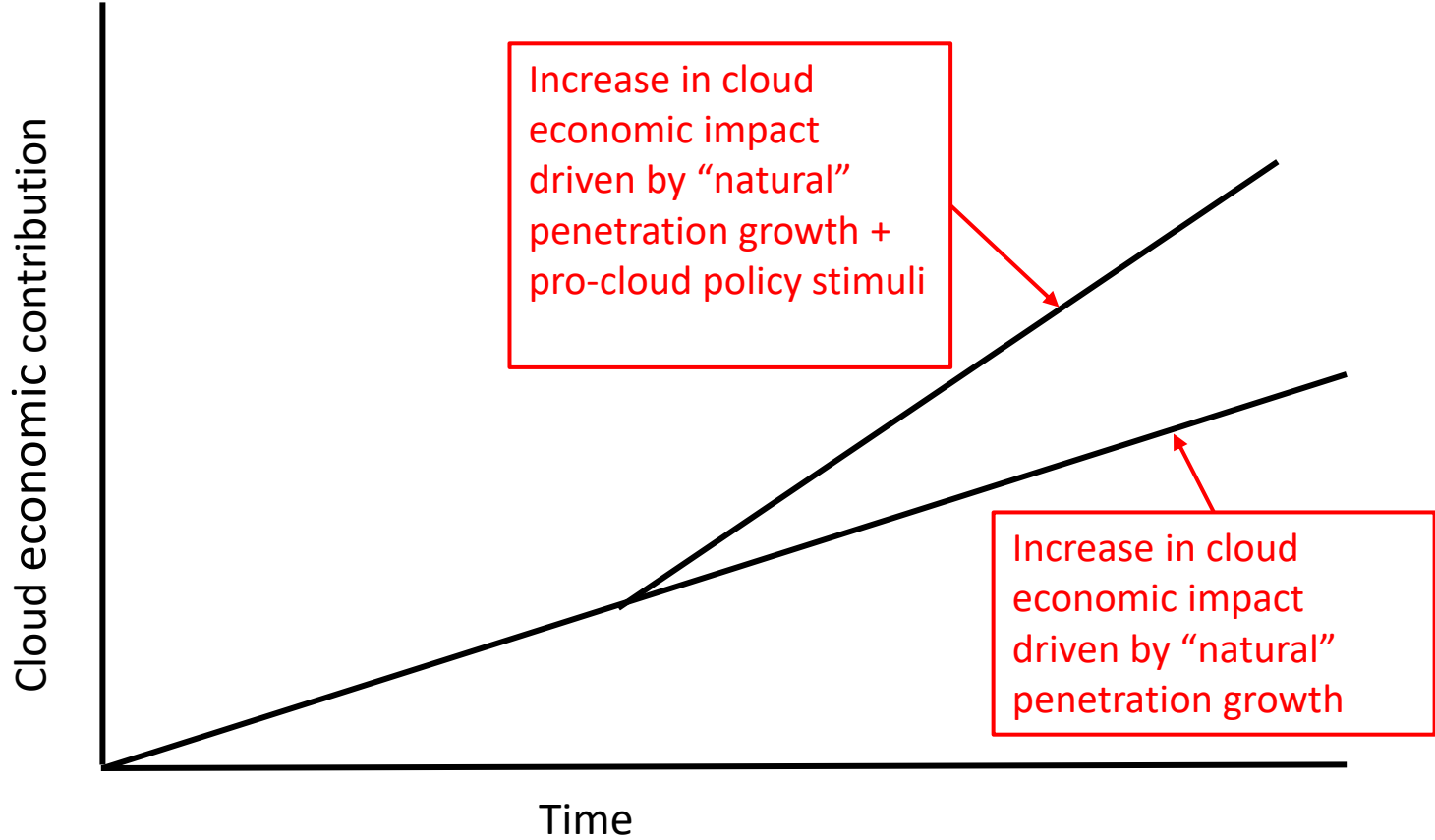
03

Global security standards and cloud centric accreditations

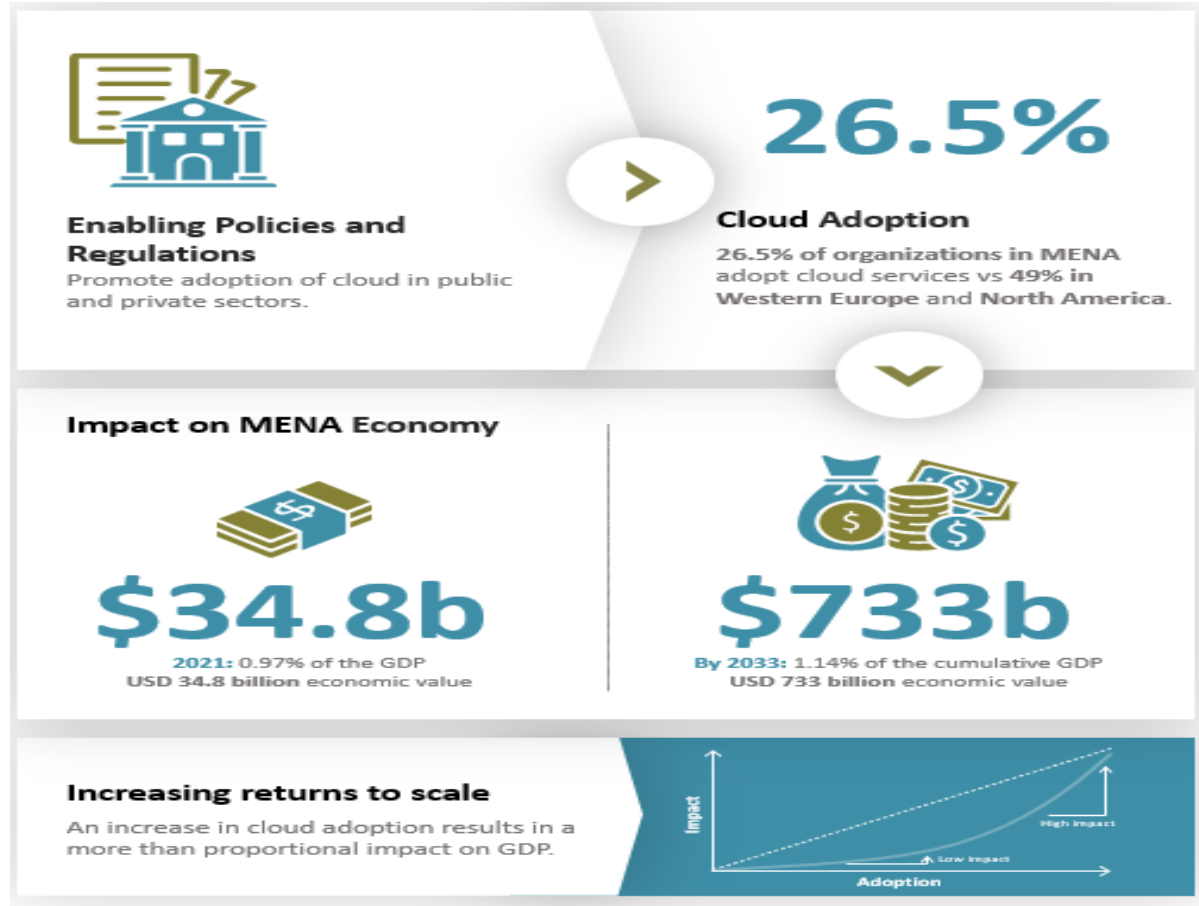
04

Widespread awareness of cloud benefits e.g. for economic development, service delivery and government efficiency

Ongoing research on pro-cloud policy linkages, government efficiency and economic growth



Economic impact in Middle East/North Africa



- Demonstrated contribution of cloud to the digital economy
- Based on detailed quantitative analysis covering all Gulf Cooperation Council countries (Saudi Arabia, United Arab Emirates, Qatar, Kuwait, Oman, and Bahrain), and other MENA states (Jordan, Egypt, Turkey, Morocco, Algeria, and Tunisia).

Policies enabling more widespread cloud adoption, particularly by governments



SECURITY & CLOUD ACCREDITATION

Using internationally recognized accreditation systems to evaluate Cloud Service Providers objectively



DATA PRIVACY AND CONTROL

Establishing and/or adopt complementary security, data processing and privacy policies



DATA CLASSIFICATION

Categorizing data based on its level of sensitivity, and then managing each segment accordingly



CLOUD CONTRACTING AND PROCUREMENT

Designing and instituting cloud contracting mechanisms that agencies can use to gain the full benefits of cloud

Some examples of “Cloud First” policies

Australia: Secure Cloud Strategy

<https://www.dta.gov.au/sites/default/files/2022-09/DTA%20Secure%20Cloud%20Strategy%20-%20October%202021%20v3.pdf>

US: Cloud Smart Strategy

<https://cloud.cio.gov/strategy/>

UK: Public Cloud First policy

<https://www.gov.uk/guidance/government-cloud-first-policy#public-cloud-first>

India: Government of India cloud

https://www.meity.gov.in/writereaddata/files/GI-Cloud%20Strategic%20Direction%20Report%281%29_0.pdf

Singapore: Government on Commercial Cloud

<https://www.developer.tech.gov.sg/products/categories/infrastructure-and-hosting/government-on-commercial-cloud/overview.html>



Cloud-enabling policies will drive both digital transformation and broader economic and service delivery outcomes in Asia-Pacific

