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## Data Center Investment Opportunities in SEA

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#### SEA is far behind global averages in DC capacity

Overview of SEA data center market



<sup>1)</sup> Speeda Industry Analysis; 2) IT Capacity MW; 3) With estimated SEA population in 2026 – 710 million people

Roland Berger

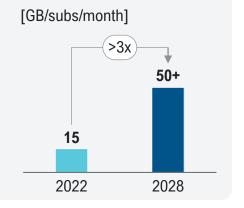
#### Data consumption boom and growing cloud adoption is pulling the supply

Key demand drivers of DC growth in SEA and impact on supply

#### B2C demand

**Tripling of data – driven by video!** 

- Increasing adoption of digital services (content, commerce, etc.)
- Growth in deployment of 5G services will fuel data consumption



#### **B2B** demand

Rising colocation demand from enterprise and govts.

- Digitalization and cloud initiatives by enterprises
- E-Government push and data localization / privacy regulations

×	2017 <b>2022</b>
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on	71 > 77
zat	55 <b>67</b>
Digitali	<b>●</b> 61 <b>→ 69</b>
Dig	<b>&gt;</b> 59 <b>+ 65</b>
RB	<b>54 ♦ 66</b>

#### **CDN / Caching / Streaming**



 Growing need for localized distribution capability thereby increasing the demand for local/regional DC hosting

#### **Hyper-scalers**









 >50% of hyperscaler DC capacity is being leased in SEA – these form the key tenants for a DC's business case and drive wholesale colocation demand

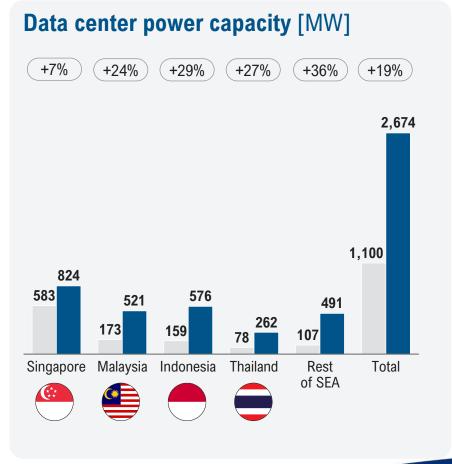
#### **Enterprise colocation**

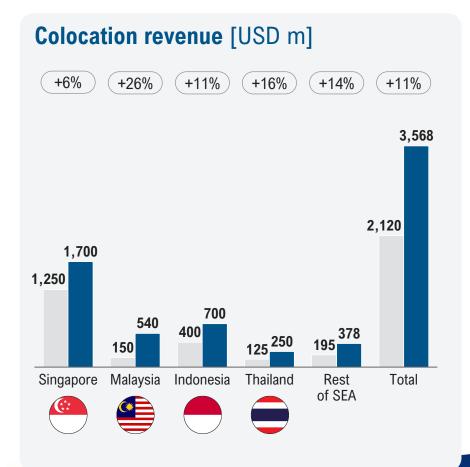


 Enterprise cloud and government cloud drive retail colocation – and is a key factor for smaller, more distributed assets

### DC revenue growth – i.e. monetization – is likely to lag the pace of capacity build

Overview of SEA data center market





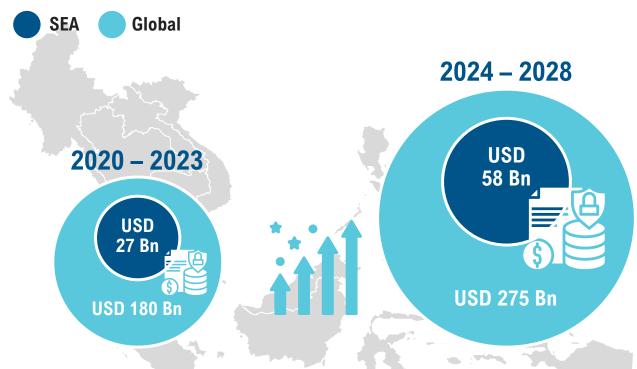
Monetization likely to be lower as more capacity comes online, wholesale dominates Longer term contracts, utilization, capex optimization are some key optimizations



2021 2026

#### However, DC investments continue to grow rapidly across the region

Growing investment in SEA's DC markets, compared to global



- SEA Share going up from ~15% to ~20%
- Indonesia and Singapore key markets for growth
- ... increasing government support for data center investments

#### Some considerations for MDBs

- Not all countries and assets (and business cases) are equal – e.g. smaller assets, Tier 2 markets
- Commercial capital, typical partners may not have the flexibility or appetite for all situations
- Low carbon power is still a challenge



# Berger

