

SECTOR UPDATE

REITs – Singapore

Data Centre REITs – Cloud Service Providers Are A Source Of Demand

Cloud service providers have been portrayed by Jim Chanos as aggressive competitors who prefer to build their own hyperscale data centres. The evidence gathered from CBRE suggests otherwise. Cloud service providers are a key source of demand for data centres. A multi-cloud strategy would reduce concentration and tame the power wielded by cloud service providers. Data centre REITs also benefit from limited future supply. **BUY DCREIT (Target: S\$0.98) and MINT (Target: S\$3.36).**

WHAT'S NEW

- **Hearsay from hedge fund?** An article carried by the *Financial Times* dated 29 Jun 22 highlighted hedge fund manager Jim Chanos' big short idea to sell providers of legacy data centres, such as Digital Realty, Equinix and Iron Mountain. Mr Chanos is raising several hundred of million dollars for a new fund that takes short positions on REITs listed in the US.
- **Customers turning into competitors?** According to Mr Chanos, cloud service providers, such as Amazon Web Services, Google Cloud Platform and Microsoft Azure, prefer to build their own hyperscale data centres based on their own design. In Mr Chanos' opinion, the three cloud service providers, which are Digital Realty, Equinix and Iron Mountain's largest customers, will become their biggest competitor.
- **Investors in the US did not overreact.** Share prices of Digital Realty, Equinix and Iron Mountain were relatively unchanged on 29 and 30 June, although trading volume was exceptionally high during these two days. Investors in the US did not fall prey to Mr Chanos' marketing ploy to raise funds for his new fund.
 - a) **Cloud service providers are a source of growth.** Many companies are shutting down their standalone data centres, which are costly and inefficient to operate, and switching to cloud service providers instead. Some companies adopt a hybrid approach by tapping on cloud service providers for parts of their enterprise IT system while keeping some functions, especially those involving sensitive financial and healthcare information, at data centres they rent and control themselves.

Cloud service providers and social media companies are key drivers of demand for co-location data centre capacity. They are likely to sign leases for purpose-built hyperscale data centres of more than 100MW on a single-tenant basis.
 - b) **Asset-light business model based on outsourcing provides higher ROE.** Cloud service providers utilise a mix of in-house data centres and outsourced data centres. They adopt an asset-light business model by leveraging on outsourced data centres provided by Digital Realty, Equinix and Iron Mountain so as to generate higher ROE. They also sign long-term leases with their data centre landlords to ensure their outsourced data centre capacity is locked in.
 - c) **Cloud service providers focus on software and services.** Cloud service providers have developed tools to help companies run their enterprise IT systems across the public and private clouds and their own data centres. Microsoft has developed Azure Arc, which allows companies to run cloud-based database applications in their own data centres. Amazon has a similar software named AWS Outposts. They would also want to cross-sell their higher value-added services, such as data analytics and AI. Cloud service providers have to focus on their core competency so as to sharpen their competitive advantage.

PEER COMPARISON - DATA CENTRE REITs

Name	Bloomberg Code	Rec	Curr	Price 6 Jul 22	Target Price	Mkt Cap (US\$m)	Yield (%)	Debt to Equity (%)	Debt to Assets (%)	P/NAV (x)
Digi Core REIT USD	DCREIT SP	BUY	US\$	0.725	0.98	817	n.a.	5.6	35.4	26.0
Keppel DC Reit	KDCREIT SP	NR	S\$	2.00	n.a.	2,451	4.9	5.1	56.3	36.1
Mapletree Ind	MINT SP	BUY	S\$	2.64	3.36	5,063	5.2	5.1	58.3	38.4

Source: Bloomberg, UOB Kay Hian

OVERWEIGHT

(Maintained)

SECTOR PICKS

Company	Rec	Share Price	Target Price
DCREIT	BUY	0.725	0.98
MINT	BUY	2.64	3.36

Source: UOB Kay Hian

AVERAGE ASKING RENTS (US\$ KW/MONTH)

Northern Virginia	Minimum	Maximum
5-10MW	70	90
1-4MW	75	95
250-500kW	85	120
Silicon Valley	Minimum	Maximum
5-10MW	100	110
1-4MW	125	135
250-500kW	135	150

Source: CBRE

ANALYST(S)

Jonathan Koh, CFA
+65 6590 6620
jonathankoh@uobkayhian.com

d) **Multi-cloud strategy levels the playing field.** Companies are adopting a multi-cloud strategy by tapping several public and private clouds provided by cloud service providers for different workloads, sometimes in addition to their in-house data centres. Several software companies, such as Snowflake, have developed new tools to manage applications across various public and private clouds, which facilitate the migration to multi-cloud strategy. Companies prefer to use multiple cloud service providers to avoid being locked into one external vendor. This multi-cloud strategy would reduce concentration in the cloud services industry.

ACTION

- **Fundamentals for data centres remain positive.** Data centres have diversified sources of demand with future growth driven by emerging technologies, such as 5G, AI and social media, including virtual reality communities and metaverse. Compression of capitalisation rates continued in 2H21. Many private equity firms have taken listed data centre REITs private through M&A activities, such as Blackstone's acquisition of QTS Realty Trust and KKR's acquisition of CyrusOne.

- **Primary markets: Growth from hyperscale data centres.** According to CBRE, the average asking rent across primary markets was US\$120 kW/month. Land and power constraints affect supply from Northern Virginia and Silicon Valley where vacancy rates are low at 5.1% and 1.6% respectively. There is limited developable land within the two markets. The timeline to secure supply of electricity is delayed by deployment of a sub-station.

- Inventory bottlenecks are expected to result in higher rental rates in primary markets. Rental rates at Northern Virginia increased for the first time in 10 years during 2H21, supported by a substantial increase in demand for hyperscale data centres. Within Silicon Valley, Santa Clara plans to increase load development fees, which creates barrier to entry. Pre-leasing activities are dominated by cloud service providers.

- **Secondary markets: Benefitting from positive spillover.** According to CBRE, the average asking rent across secondary markets was US\$130 kW/month, a premium of US\$10 compared to primary markets. Secondary markets have a higher pre-leasing percentage of 76.3% compared with 44.2% for primary markets. Demand for data centres is likely to spill over from low-vacancy and expensive primary markets to more affordable secondary markets. The migration to secondary markets is expected to accelerate. Large tenants are signing leases for hyperscale data centres in secondary markets due to more affordable pricing for land and electricity.

- **Digital Core REIT (DCREIT SP/BUY/\$\$0.77/Target: \$S\$0.98)**

- **Portfolio remains resilient.** Occupancy rate for all 10 data centres remains at 100%. DCREIT has long WALE of 5.5 years. All its leases contain cash rental escalation of 1-3% (weighted average: 2%).

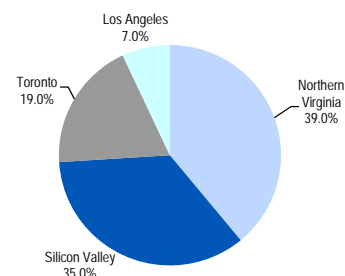
- **Insulated from variation in price of electricity.** All lease contracts are structured with energy costs 100% reimbursed by customers. 63% of its leases by net rentable sf (NRSF) are on a triple net structure, whereby real estate taxes and property expenses are absorbed by tenants.

- **Hit by higher interest rates.** DCREIT has maintained the proportion of borrowings hedged to fixed rates at 50%. We expect its cost of debts to increase from the current 2.1% to 3.6% in 2023, assuming the US Fed Funds Rate hits 3.25% by end-22. Fortunately, aggregate leverage remains low at 26%.

- **Mapletree Industrial Trust (MINT SP/BUY/\$\$2.63/Target: \$S\$3.36):**

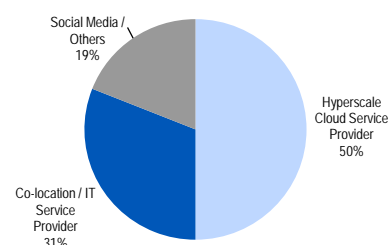
- **Sticking to diversification strategy by expanding into new arenas.** MINT is committed to its goal of allocating two-thirds of AUM to data centres. Data centres have expanded by 12.9ppt to account for 54.1% of AUM in FY22. Having reached a sizeable scale of 57 data centres in the US, MINT will look at opportunities to unlock value through: a) asset enhancement to upgrade the data centres, b) redevelopment to cater for new usage such as life science and c) divestment and asset recycling.

RENTAL INCOME BY CORE MARKET (MAR 22)



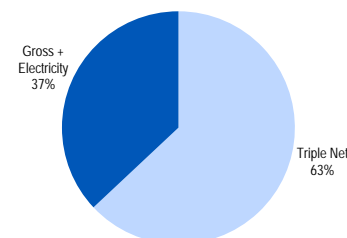
Source: DCREIT

TRADE SCTOR BY ANNUALISED RENTS (MAR 22)



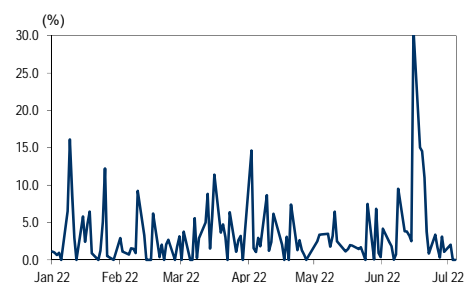
Source: DCREIT

RENTAL INCOME BY CONTRACT TYPE (MAR 22)



Source: DCREIT

SHORT SELL VOLUME AS % TOTAL TURNOVER VOLUME - DCREIT



Source: Bloomberg, UOB Kay Hian

- **Striving for sustainable growth in FY23.** MINT benefits from full-year contribution from its acquisition of 29 US data centres (completed on 22 Jul 21) in FY23. It plans to release tax-exempt income of S\$6.6m withheld in 4QFY20 to unitholders during FY23.
- **Portfolio remains resilient.** Occupancy for its data centres in North America was 94.2% as of Mar 22. MINT has long WALE of 6.1 years. The portfolio provides average rental escalation of 2.0-2.5%.
- **Minimal impact from higher cost of electricity.** Triple net leases accounted for all leases for data centres in Singapore and 90.2% of leases for data centres in North America (the increase in cost of electricity is less dramatic due to diversified sources of energy). Thus, a higher cost of electricity does not have material impact on MINT's portfolio of data centres.

SECTOR CATALYSTS

- Continued growth from cloud service providers and social media companies.
- Land and power constraints reduce future supply of data centres.

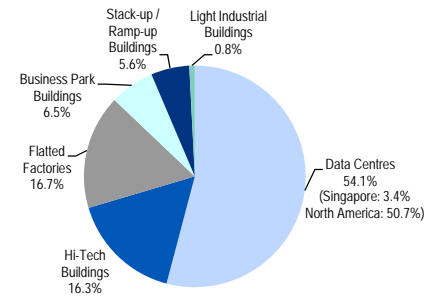
ASSUMPTION CHANGES

- We maintain our existing earnings forecasts.

RISKS

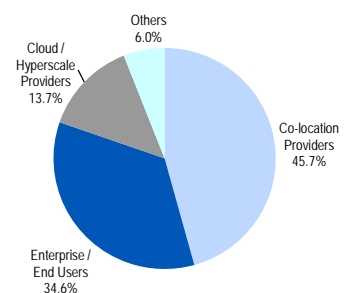
- Continued capitalisation rates reduce opportunities for yield-accretive acquisitions.

PORTFOLIO BREAKDOWN BY AUM (MAR 22)



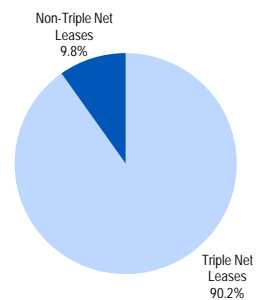
Source: MINT

TENANT TYPE BY GROSS RENTAL INCOME (MAR 22)



Source: MINT

LEASE TYPE BY GROSS RENTAL INCOME (MAR 22)



Source: MINT

Disclosures/Disclaimers

This report is prepared by UOB Kay Hian Private Limited ("UOBKH"), which is a holder of a capital markets services licence and an exempt financial adviser in Singapore.

This report is provided for information only and is not an offer or a solicitation to deal in securities or to enter into any legal relations, nor an advice or a recommendation with respect to such securities.

This report is prepared for general circulation. It does not have regard to the specific investment objectives, financial situation and the particular needs of any recipient hereof. Advice should be sought from a financial adviser regarding the suitability of the investment product, taking into account the specific investment objectives, financial situation or particular needs of any person in receipt of the recommendation, before the person makes a commitment to purchase the investment product.

This report is confidential. This report may not be published, circulated, reproduced or distributed in whole or in part by any recipient of this report to any other person without the prior written consent of UOBKH. This report is not directed to or intended for distribution to or use by any person or any entity who is a citizen or resident of or located in any locality, state, country or any other jurisdiction as UOBKH may determine in its absolute discretion, where the distribution, publication, availability or use of this report would be contrary to applicable law or would subject UOBKH and its connected persons (as defined in the Financial Advisers Act, Chapter 110 of Singapore) to any registration, licensing or other requirements within such jurisdiction.

The information or views in the report ("Information") has been obtained or derived from sources believed by UOBKH to be reliable. However, UOBKH makes no representation as to the accuracy or completeness of such sources or the Information and UOBKH accepts no liability whatsoever for any loss or damage arising from the use of or reliance on the Information. UOBKH and its connected persons may have issued other reports expressing views different from the Information and all views expressed in all reports of UOBKH and its connected persons are subject to change without notice. UOBKH reserves the right to act upon or use the Information at any time, including before its publication herein.

Except as otherwise indicated below, (1) UOBKH, its connected persons and its officers, employees and representatives may, to the extent permitted by law, transact with, perform or provide broking, underwriting, corporate finance-related or other services for or solicit business from, the subject corporation(s) referred to in this report; (2) UOBKH, its connected persons and its officers, employees and representatives may also, to the extent permitted by law, transact with, perform or provide broking or other services for or solicit business from, other persons in respect of dealings in the securities referred to in this report or other investments related thereto; (3) the officers, employees and representatives of UOBKH may also serve on the board of directors or in trustee positions with the subject corporation(s) referred to in this report. (All of the foregoing is hereafter referred to as the "Subject Business"); and (4) UOBKH may otherwise have an interest (including a proprietary interest) in the subject corporation(s) referred to in this report.

As of the date of this report, no analyst responsible for any of the content in this report has any proprietary position or material interest in the securities of the corporation(s) which are referred to in the content they respectively author or are otherwise responsible for.

IMPORTANT DISCLOSURES FOR U.S. PERSONS

This research report was prepared by UOBKH, a company authorized, as noted above, to engage in securities activities in Singapore. UOBKH is not a registered broker-dealer in the United States and, therefore, is not subject to U.S. rules regarding the preparation of research reports and the independence of research analysts. This research report is provided for distribution by UOBKH (whether directly or through its US registered broker dealer affiliate named below) to "major U.S. institutional investors" in reliance on the exemption from registration provided by Rule 15a-6 of the U.S. Securities Exchange Act of 1934, as amended (the "Exchange Act"). All US persons that receive this document by way of distribution from or which they regard as being from UOBKH by their acceptance thereof represent and agree that they are a major institutional investor and understand the risks involved in executing transactions in securities.

Any U.S. recipient of this research report wishing to effect any transaction to buy or sell securities or related financial instruments based on the information provided in this research report should do so only through UOB Kay Hian (U.S.) Inc ("UOBKHUS"), a registered broker-dealer in the United States. Under no circumstances should any recipient of this research report effect any transaction to buy or sell securities or related financial instruments through UOBKH.

UOBKHUS accepts responsibility for the contents of this research report, subject to the terms set out below, to the extent that it is delivered to and intended to be received by a U.S. person other than a major U.S. institutional investor.

The analyst whose name appears in this research report is not registered or qualified as a research analyst with the Financial Industry Regulatory Authority ("FINRA") and may not be an associated person of UOBKHUS and, therefore, may not be subject to applicable restrictions under FINRA Rules on communications with a subject company, public appearances and trading securities held by a research analyst account.

Analyst Certification/Regulation AC

Each research analyst of UOBKH who produced this report hereby certifies that (1) the views expressed in this report accurately reflect his/her personal views about all of the subject corporation(s) and securities in this report; (2) the report was produced independently by him/her; (3) he/she does not carry out, whether for himself/herself or on behalf of UOBKH or any other person, any of the Subject Business involving any of the subject corporation(s) or securities referred to in this report; and (4) he/she has not received and will not receive any compensation that is directly or indirectly related or linked to the recommendations or views expressed in this report or to any sales, trading, dealing or corporate finance advisory services or transaction in respect of the securities in this report. However, the compensation received by each such research analyst is based upon various factors, including UOBKH's total revenues, a portion of which are generated from UOBKH's business of dealing in securities.

Reports are distributed in the respective countries by the respective entities and are subject to the additional restrictions listed in the following table.

General	This report is not intended for distribution, publication to or use by any person or entity who is a citizen or resident of or located in any country or jurisdiction where the distribution, publication or use of this report would be contrary to applicable law or regulation.
Hong Kong	This report is distributed in Hong Kong by UOB Kay Hian (Hong Kong) Limited ("UOBKHHK"), which is regulated by the Securities and Futures Commission of Hong Kong. Neither the analyst(s) preparing this report nor his associate, has trading and financial interest and relevant relationship specified under Para. 16.4 of Code of Conduct in the listed corporation covered in this report. UOBKHHK does not have financial interests and business relationship specified under Para. 16.5 of Code of Conduct with the listed corporation covered in this report. Where the report is distributed in Hong Kong and contains research analyses or reports from a foreign research house, please note: (i) recipients of the analyses or reports are to contact UOBKHHK (and not the relevant foreign research house) in Hong Kong in respect of any matters arising from, or in connection with, the analysis or report; and (ii) to the extent that the analyses or reports are delivered to and intended to be received by any person in Hong Kong who is not a professional investor, or institutional investor, UOBKHHK accepts legal responsibility for the contents of the analyses or reports only to the extent required by law.
Indonesia	This report is distributed in Indonesia by PT UOB Kay Hian Sekuritas, which is regulated by Financial Services Authority of Indonesia ("OJK"). Where the report is distributed in Indonesia and contains research analyses or reports from a foreign research house, please note recipients of the analyses or reports are to contact PT UOBKH (and not the relevant foreign research house) in Indonesia in respect of any matters arising from, or in connection with, the analysis or report.
Malaysia	Where the report is distributed in Malaysia and contains research analyses or reports from a foreign research house, the recipients of the analyses or reports are to contact UOBKHM (and not the relevant foreign research house) in Malaysia, at +603-21471988, in respect of any matters arising from, or in connection with, the analysis or report as UOBKHM is the registered person under CMSA to distribute any research analyses in Malaysia.
Singapore	This report is distributed in Singapore by UOB Kay Hian Private Limited ("UOBKH"), which is a holder of a capital markets services licence and an exempt financial adviser regulated by the Monetary Authority of Singapore. Where the report is distributed in Singapore and contains research analyses or reports from a foreign research house, please note: (i) recipients of the analyses or reports are to contact UOBKH (and not the relevant foreign research house) in Singapore in respect of any matters arising from, or in connection with, the analysis or report; and (ii) to the extent that the analyses or reports are delivered to and intended to be received by any person in Singapore who is not an accredited investor, expert investor or institutional investor, UOBKH accepts legal responsibility for the contents of the analyses or reports only to the extent required by law.
Thailand	This report is distributed in Thailand by UOB Kay Hian Securities (Thailand) Public Company Limited, which is regulated by the Securities and Exchange Commission of Thailand.
United Kingdom	This report is being distributed in the UK by UOB Kay Hian (U.K.) Limited, which is an authorised person in the meaning of the Financial Services and Markets Act and is regulated by The Financial Conduct Authority. Research distributed in the UK is intended only for institutional clients.
United States of America ('U.S.')	This report cannot be distributed into the U.S. or to any U.S. person or entity except in compliance with applicable U.S. laws and regulations. It is being distributed in the U.S. by UOB Kay Hian (US) Inc, which accepts responsibility for its contents. Any U.S. person or entity receiving this report and wishing to effect transactions in any securities referred to in the report should contact UOB Kay Hian (US) Inc. directly.

Copyright 2022, UOB Kay Hian Pte Ltd. All rights reserved.

<http://research.uobkayhian.com>

RCB Regn. No. 197000447W