

Singapore Industry Focus

Singapore REITs

Refer to important disclosures at the end of this report

DBS Group Research . Equity

18 Mar 2022

Are S-REITs pressured by inflation and high oil prices?

- Inflation pressures to cut profitability across most real estate classes, warehouses least impacted
- Renewal of utility and maintenance contracts are key pressure points on margins in 2H22
- Sensitivity analysis of a 100% hike in utilities: 10% hike in maintenance implies a 5%-7% drop in distributions
- Growth over yield; add [MLT](#) to top picks

Inflation pressures cut into profitability. Persistently high inflation rates due to global supply disruptions coupled with the ongoing geopolitical tensions have driven oil prices above US\$100 per barrel. In Singapore, businesses are faced with higher energy costs (utilities, petrol) and labour costs. Landlords are also not spared, as utility and maintenance costs are expected to hike when these contracts are rolled over in 2H22-2023. While some of these cost pressures may be temporary, they add to the challenges that landlords need to manage, amidst the prospect of rising funding costs.

What if utility costs double? We understand that most S-REITs as landlords will have to incur operational costs in maintaining the common areas (i.e., the walking spaces within the malls, lift lobbies for office buildings, common areas in industrial properties) which account for c.5% to 40% of the overall GFA. While some of these costs can be defrayed through service charges, landlords will still have to bear some of the burden going forward. Based on our estimates, utilities and maintenance take up c.2% and c.5% of revenues, respectively, but this may vary, depending on the real estate subsector. Assuming a doubling of utility costs, a 10% hike in maintenance costs, we see a potential c.1% to 4% erosion to net property income ("NPI") margins, translating to an estimated c.2% to c.7% decline in distributions. In our scenario analysis, we have not accounted for scenarios where selected landlords have running contracts that last beyond FY22.

Who is most shielded and where should investors hide? The warehouse sector (mainly ambient warehouses) is the most shielded from the rise in operational costs, given their efficient footprint, and we see the least downside to earnings. Overall, even with these rising cost pressures, we estimate that the sector can still deliver a growth of 7.4% (vs. 8.0% before), with sector yields still attractive at c.6.0%. Our strategy is to stick with "growth sectors", given their ability to deliver higher DPUs despite these costs pressures. In addition, we have added MLT to our top eight names.

STI : 3,322.71

Analysts

Derek TAN +65 6682 3716 derektan@dbs.com Rachel TAN +65 6682 3713 racheltanlr@dbs.com

Dale LAI +65 66823715 dalelai@dbs.com Geraldine WONG +65 6682 3719 geraldinew@dbs.com

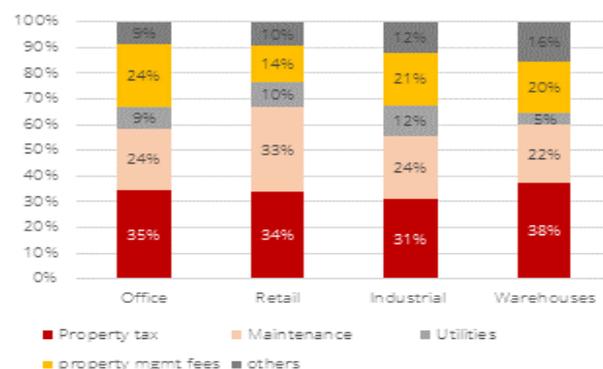
STOCKS

	Price S\$	Mkt Cap US\$m	12-mth Target Price S\$	Performance (%) 3 mth	Performance (%) 12 mth	Rating
CapitaLand Integrated Commercial Trust	2.17	10,574	2.45	7.5	0.9	BUY
Suntec REIT	1.70	3,588	1.90	12.8	7.1	BUY
Mapletree Industrial Trust	2.64	5,170	3.35	(3.4)	(2.3)	BUY
Mapletree Logistics Trust	1.82	6,406	2.35	(4.3)	(3.2)	BUY
Frasers Logistics & Commercial Trust	1.45	3,939	1.85	(5.3)	1.4	BUY
Frasers Centrepoint Trust	2.30	2,880	2.90	0.9	(9.2)	BUY
Ascott Residence Trust	1.04	2,513	1.30	2.0	(6.4)	BUY
CapitaLand China Trust	1.16	1,427	1.60	(2.6)	(16.8)	BUY

Source: DBS Bank, Bloomberg Finance L.P.
Closing price as of 17 Mar 2022

Contribution to cost (by line items)

Breakdown of operational expenses



Source: DBS Bank, Bloomberg Finance L.P.



Watchlist the stock on Insights Direct to receive prompt updates



High energy costs push utility costs higher

Watch out for inflationary pressures on profitability. Inflation pressures due to supply bottlenecks and the current Ukraine crisis are expected to drive global energy prices higher, and Singapore's energy costs will also spike as a result. In the most recent meetings, we see more questions surrounding the impact of higher utilities and maintenance contracts on net operating income ("NPI") and distributions. In our analysis and engagement with various companies, the spike in utilities and maintenance will indeed be an overhang but overall impact is varied and manageable. We believe that the ability to continue growing revenues strongly at c.20% in FY22 will be a key mitigator to the rise in operational costs. Our key findings are as such:

Utilities is not a major cost component for operational expenses; most expenses are passed on to tenants. We understand that most S-REITs as landlords will have to incur operational costs in maintaining the common areas (i.e., the walking spaces within the malls, lift lobbies for office buildings, common areas in industrial properties), spaces which are managed and maintained by the

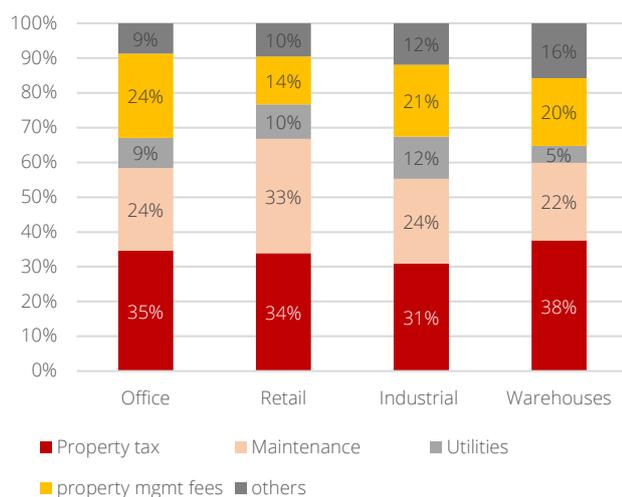
landlord. Some of these costs are rechargeable to the tenants through service charges that are built in rental contracts, which help to defray some of these costs incurred. For spaces that are occupied by tenants, utility costs are reimbursed by the tenants.

Breaking down the exposure to major cost items for the various subsectors, we found that in terms of percentages of operational costs, property tax was at c.35% of operational costs, and maintenance at c.14%-24% of overall costs, with utilities at c.5% to c.14% of overall costs, with a majority of subsectors incurring <10% of overall costs.

From a percentage of revenue perspective, we estimate that the landlords will spend 11% to 27% of revenue on operational expenses (translating to a margin of 73% to 89%) with 4%-9% on property taxes, c.5% to c.7% on maintenance costs, and c.1%-c.3% on utilities.

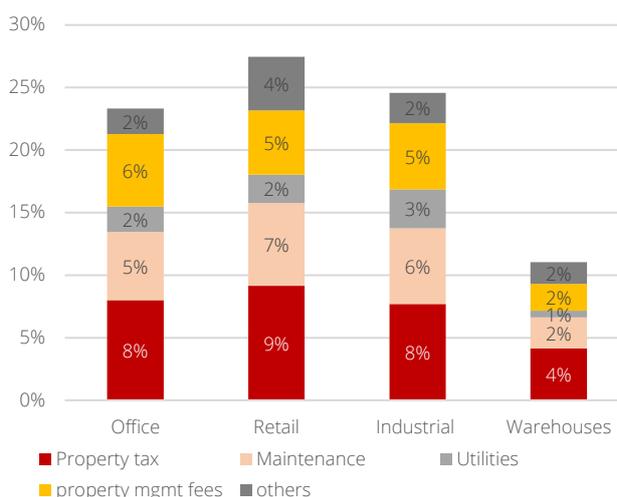
An illustration on the breakdown of operational cost components for various sectors*

Breakdown of operational expenses



Source: Companies, DBS Bank

Operational expenses (% of revenue)



Source: Companies, DBS Bank

* We have not included hospitality S-REITs, as most of the operational costs are borne by the hotel operators

* Office: We have used CICT, KREIT; retail: FCT, CMT; industrial: AREIT, MINT; warehouses: MLT as a guide

What is the potential impact on margins?

Impact of higher costs will be more gradual, as expiry of contracts are well spread out. Based on discussions with various landlords, most landlords expect to see some upward pressure in costs of maintenance and utilities when these contracts are renewed in the coming quarters.

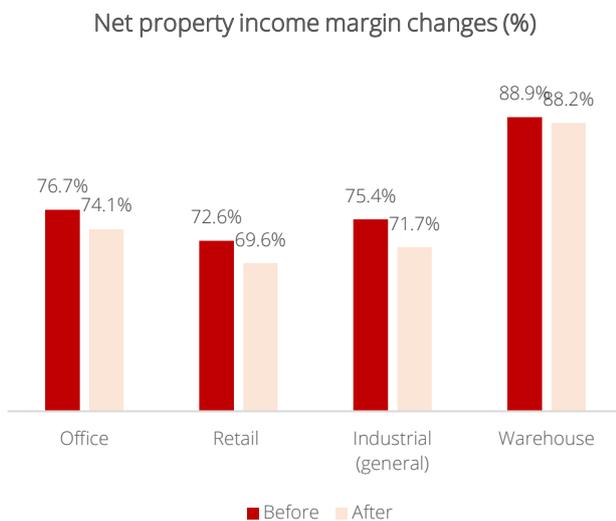
While some of the S-REITs are exposed to the spot electricity tariff and will start feeling the impact in 2H22, we understand that most have locked in contracts for the next few years, thereby substantially shielding the REIT from these cost hikes in the near term. Meanwhile, we believe a part of the rise may be temporary (e.g., high oil prices driven higher by geopolitical crisis, supply disruption).

Therefore, the impact of these higher costs may be spread out over several years, depending on the timing of the expiry of the current maintenance and utility contracts.

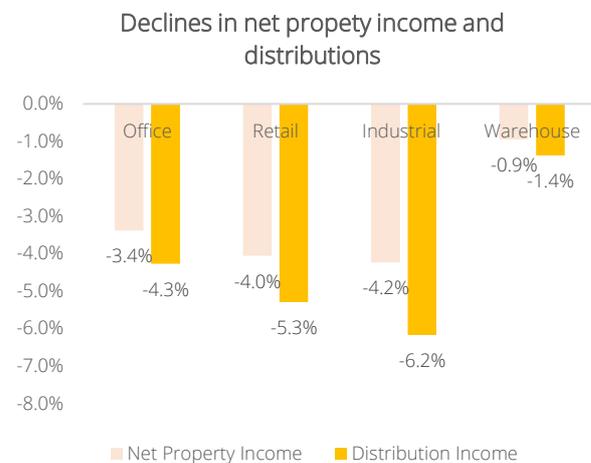
What is the potential impact to margins if utilities rise 100% and maintenance cost by 10%? In our sensitivity analysis, assuming a c.100% rise in utility costs and 10% rise in maintenance costs, we estimate that the net property income margins may reduce by -0.8ppt to -3.7%, with a larger decline seen industrial-focused S-REITs due to their bigger exposure to both maintenance and utilities.

This translates to a possible c.1.8%-6.7% drop in distributions, with the warehouse sector seeing the lowest declines of c.1.8%.

Impact to margins, net property income and distribution



Source: Companies, DBS Bank



Source: Companies, DBS Bank

Potential impact by subsectors

Sectors	Potential impact – point form
Office	<ul style="list-style-type: none"> Majority of the utility cost is borne by tenants, while the utility cost for the common areas will be reimbursed via a service charge to tenants (which is typically fixed during the lease period) Common area utility costs are typically c.9% to 10% of operational expenses Some office landlords could have locked in a utility rate for one to two years to mitigate the rising rates In addition, green buildings with energy-saving features may reduce the utility cost
Retail	<ul style="list-style-type: none"> Utility contracts help to hedge the effect of utility hikes for up to one to two years The service charge paid by tenants can be used to defray costs incurred for common areas Utility costs borne by retail landlords typically stand at c.40% of mall GFA Tenant service charges typically help to partially pay off utility charge Utilities make up c.10% of operational expenses and c.2% of revenue on a net basis
Industrial	<p>General (Business Park, Hi-Tech)</p> <ul style="list-style-type: none"> Most utility costs are recoverable from tenants Generally has more common space and services compared to other industrial property types, and will be most impacted <p>Logistics focused</p> <ul style="list-style-type: none"> Ambient warehouses have minimal impact as they are very space efficient and have minimal common spaces Climate-controlled warehouses may be impacted if utility charges are set on a fixed rate <p>Data centres</p> <ul style="list-style-type: none"> Minimal impact, as leases are either triple-net or utility costs are charged directly to tenants
Hospitality	<ul style="list-style-type: none"> Impact not material on the hospitality S-REITs and mostly borne by the master lessor Hike in utility costs are more prominent in geographies like Europe and US Similar to the other subsectors, some properties have secured fixed rates with energy brokers to mitigate the impact of a utility cost hike Longer stay lodging assets typically come with a cap on utility usage whereby guests will pay if they exceed the utility cap

Source: Companies, DBS Bank

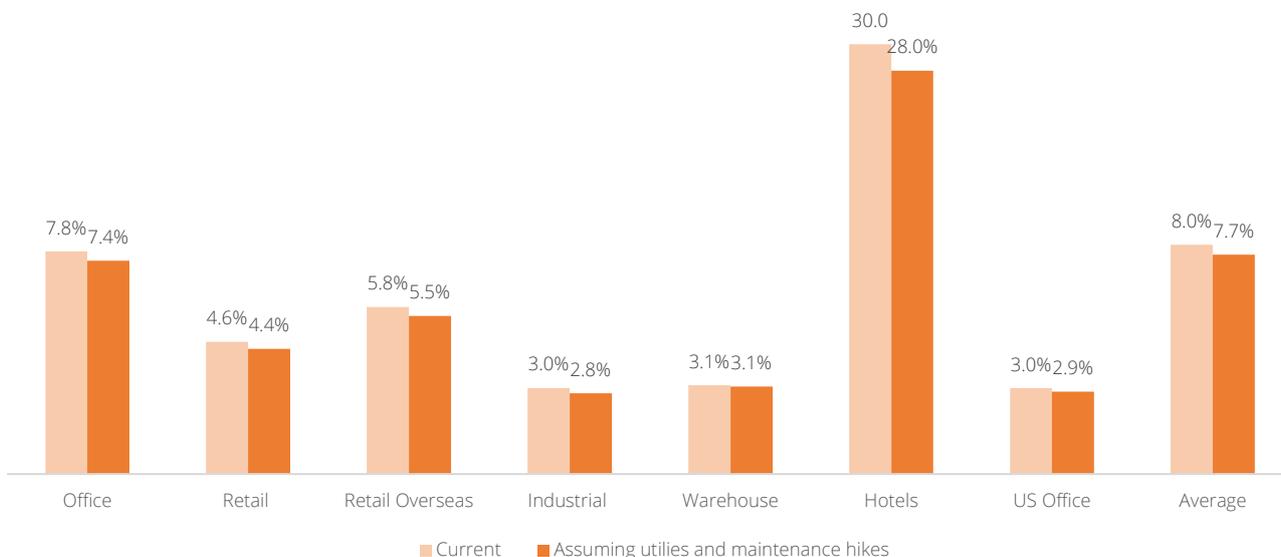
Our sensitivity analysis indicates that S-REITs can still deliver a 2-year DPU CAGR of 7.4%

Potential 40 basis point cut in growth trajectory. Expanding our analysis throughout the various subsectors and assuming the highest 3.0% cut in margins for other sectors (overseas-focused REITs, healthcare, and hospitality), we find that the growth trajectory for the sector is potentially marginally reset lower by 30 basis points, to 7.7% (ranging 2.8% to 28.0%) from 8% (ranging 3% to 30%). As such, we remain comforted that the S-REITs’ growth trajectory remains intact for most sectors, despite the worrying trend of higher operational costs remaining an overhang for the sector in the near term.

Based on our sensitivity analysis, every 100% hike in utilities, in our estimates, will cut our DPU by 4.0% and growth trajectory by 40 basis points.

Impact of high operational costs on DPU growth profile

2-year DPU CAGR (FY21-23F)



Source: Companies, DBS Bank

Impact of high operational costs on DPU growth profile

REIT	NPI Margin			DPU CAGR (%)	NPI		DPU drop FY22/23	Growth 2-yr CAGR	Drop
	FY21	FY22	FY23		FY22F	FY23F			
Office									
CICT	72.9%	73.9%	74.2%	8.9%	71.4%	71.7%	-4.3%	8.5%	-0.4%
Suntec REIT	71.1%	74.0%	73.0%	11.6%	71.5%	70.5%	-4.3%	11.1%	-0.5%
Keppel REIT	79.7%	79.9%	77.1%	4.2%	77.3%	74.6%	-4.3%	4.0%	-0.2%
OUE CT	81.7%	80.6%	80.9%	3.9%	78.1%	78.3%	-4.3%	3.8%	-0.2%
Retail									
FCT	72.3%	72.8%	72.9%	5.2%	69.9%	69.9%	-5.3%	5.0%	-0.3%
SPH REIT	73.1%	71.5%	72.1%	2.7%	68.5%	69.1%	-5.3%	2.6%	-0.1%
Starhill Global REIT	74.3%	73.2%	73.2%	0.7%	70.3%	70.3%	-5.3%	0.4%	-0.3%
Overseas focused									
CLCT	69.1%	69.9%	70.2%	5.6%	66.9%	67.2%	-5.3%	5.3%	-0.3%
Sasseur REIT	100.0%	100.0%	100.0%	8.3%	97.1%	97.1%	-5.3%	7.8%	-0.4%
Hospitality									
ARA US HT	29.1%	30.9%	31.4%	20.0%	27.2%	27.6%	-5.3%	18.9%	-1.1%
ART	47.4%	53.0%	52.2%	33.5%	49.3%	48.5%	-5.3%	31.7%	-1.8%
CDL HT	54.6%	61.1%	61.8%	27.2%	57.4%	58.1%	-5.3%	25.7%	-1.4%
Frasers HT	67.4%	74.0%	75.5%	20.1%	70.3%	71.8%	-5.3%	19.0%	-1.1%
Far East HT	90.3%	88.5%	88.9%	66.8%	84.8%	85.1%	-5.3%	63.3%	-3.5%
Industrial									
AIMS APAC REIT	71.4%	72.0%	74.0%	6.3%	68.3%	70.3%	-6.7%	5.9%	-0.4%
AREIT	75.1%	76.3%	76.5%	2.8%	72.6%	72.8%	-6.7%	2.6%	-0.2%
AIT	80.8%	77.0%	77.0%	7.8%	73.3%	73.3%	-6.7%	7.3%	-0.5%
DHLT	78.3%	78.2%	78.2%	1.0%	77.4%	77.4%	-1.8%	0.8%	-0.2%
DCR	63.1%	64.1%	66.1%	6.4%	60.4%	62.4%	-6.7%	6.0%	-0.4%
EC REIT	90.1%	90.0%	90.0%	1.7%	86.3%	86.3%	-6.7%	1.6%	-0.1%
KDC REIT	91.5%	85.6%	85.6%	6.5%	84.8%	84.8%	-6.2%	6.1%	-0.4%
FLCT	78.1%	81.0%	81.0%	1.8%	80.2%	80.2%	-1.8%	1.7%	-0.1%
MINT	78.5%	77.3%	75.9%	2.9%	73.6%	72.2%	-6.7%	2.7%	-0.2%
MLT	88.9%	85.4%	85.3%	2.0%	84.6%	84.5%	-1.8%	1.9%	-0.1%
US Office									
MUST	63.3%	63.7%	64.5%	4.1%	61.2%	61.9%	-4.3%	3.9%	-0.2%
KORE	61.3%	61.4%	61.5%	6.1%	58.8%	58.9%	-4.3%	5.9%	-0.3%
Prime	66.9%	68.6%	68.6%	2.9%	66.0%	66.0%	-4.3%	2.7%	-0.1%
European focused									
Cromwell REIT	65.0%	65.4%	65.5%	1.6%	62.9%	62.9%	-4.3%	1.5%	-0.1%
IREIT Global	81.4%	86.5%	86.5%	10.3%	83.9%	83.9%	-4.3%	9.9%	-0.4%
Elite REIT	97.1%	97.2%	97.2%	-3.9%	94.6%	94.6%	-4.3%	-4.4%	-0.5%
Healthcare									
Plife REIT	92.2%	92.9%	93.0%	1.6%	92.9%	93.0%	0.0%	1.6%	0.0%

Source: Companies, DBS Bank

DBS Bank recommendations are based on an Absolute Total Return* Rating system, defined as follows:

STRONG BUY (>20% total return over the next 3 months, with identifiable share price catalysts within this time frame)

BUY (>15% total return over the next 12 months for small caps, >10% for large caps)

HOLD (-10% to +15% total return over the next 12 months for small caps, -10% to +10% for large caps)

FULLY VALUED (negative total return, i.e., > -10% over the next 12 months)

SELL (negative total return of > -20% over the next 3 months, with identifiable share price catalysts within this time frame)

*Share price appreciation + dividends

Completed Date: 18 Mar 2022 06:15:31 (SGT)

Dissemination Date: 18 Mar 2022 06:45:28 (SGT)

Sources for all charts and tables are DBS Bank unless otherwise specified.

GENERAL DISCLOSURE/DISCLAIMER

This report is prepared by DBS Bank Ltd. This report is solely intended for the clients of DBS Bank Ltd, DBS Vickers Securities (Singapore) Pte Ltd, its respective connected and associated corporations and affiliates only and no part of this document may be (i) copied, photocopied or duplicated in any form or by any means or (ii) redistributed without the prior written consent of DBS Bank Ltd.

The research set out in this report is based on information obtained from sources believed to be reliable, but we (which collectively refers to DBS Bank Ltd, its respective connected and associated corporations, affiliates and their respective directors, officers, employees and agents (collectively, the "DBS Group") have not conducted due diligence on any of the companies, verified any information or sources or taken into account any other factors which we may consider to be relevant or appropriate in preparing the research. Accordingly, we do not make any representation or warranty as to the accuracy, completeness or correctness of the research set out in this report. Opinions expressed are subject to change without notice. This research is prepared for general circulation. Any recommendation contained in this document does not have regard to the specific investment objectives, financial situation and the particular needs of any specific addressee. This document is for the information of addressees only and is not to be taken in substitution for the exercise of judgement by addressees, who should obtain separate independent legal or financial advice. The DBS Group accepts no liability whatsoever for any direct, indirect and/or consequential loss (including any claims for loss of profit) arising from any use of and/or reliance upon this document and/or further communication given in relation to this document. This document is not to be construed as an offer or a solicitation of an offer to buy or sell any securities. The DBS Group, along with its affiliates and/or persons associated with any of them may from time to time have interests in the securities mentioned in this document. The DBS Group, may have positions in, and may effect transactions in securities mentioned herein and may also perform or seek to perform broking, investment banking and other banking services for these companies.

Any valuations, opinions, estimates, forecasts, ratings or risk assessments herein constitutes a judgment as of the date of this report, and there can be no assurance that future results or events will be consistent with any such valuations, opinions, estimates, forecasts, ratings or risk assessments. The information in this document is subject to change without notice, its accuracy is not guaranteed, it may be incomplete or condensed, it may not contain all material information concerning the company (or companies) referred to in this report and the DBS Group is under no obligation to update the information in this report.

This publication has not been reviewed or authorized by any regulatory authority in Singapore, Hong Kong or elsewhere. There is no planned schedule or frequency for updating research publication relating to any issuer.

The valuations, opinions, estimates, forecasts, ratings or risk assessments described in this report were based upon a number of estimates and assumptions and are inherently subject to significant uncertainties and contingencies. It can be expected that one or more of the estimates on which the valuations, opinions, estimates, forecasts, ratings or risk assessments were based will not materialize or will vary significantly from actual results. Therefore, the inclusion of the valuations, opinions, estimates, forecasts, ratings or risk assessments described herein IS NOT TO BE RELIED UPON as a representation and/or warranty by the DBS Group (and/or any persons associated with the aforesaid entities), that:

- (a) such valuations, opinions, estimates, forecasts, ratings or risk assessments or their underlying assumptions will be achieved, and
- (b) there is any assurance that future results or events will be consistent with any such valuations, opinions, estimates, forecasts, ratings or risk assessments stated therein.

Please contact the primary analyst for valuation methodologies and assumptions associated with the covered companies or price targets.

Any assumptions made in this report that refers to commodities, are for the purposes of making forecasts for the company (or companies) mentioned herein. They are not to be construed as recommendations to trade in the physical commodity or in the futures contract relating to the commodity referred to in this report.

DBSVUSA, a US-registered broker-dealer, does not have its own investment banking or research department, has not participated in any public offering of securities as a manager or co-manager or in any other investment banking transaction in the past twelve months and does not engage in market-making.

ANALYST CERTIFICATION

The research analyst(s) primarily responsible for the content of this research report, in part or in whole, certifies that the views about the companies and their securities expressed in this report accurately reflect his/her personal views. The analyst(s) also certifies that no part of his/her compensation was, is, or will be, directly or indirectly, related to specific recommendations or views expressed in the report. The research analyst (s) primarily responsible for the content of this research report, in part or in whole, certifies that he or his associate¹ does not serve as an officer of the issuer or the new listing applicant (which includes in the case of a real estate investment trust, an officer of the management company of the real estate investment trust; and in the case of any other entity, an officer or its equivalent counterparty of the entity who is responsible for the management of the issuer or the new listing applicant) and the research analyst(s) primarily responsible for the content of this research report or his associate does not have financial interests² in relation to an issuer or a new listing applicant that the analyst reviews. DBS Group has procedures in place to eliminate, avoid and manage any potential conflicts of interests that may arise in connection with the production of research reports. The research analyst(s) responsible for this report operates as part of a separate and independent team to the investment banking function of the DBS Group and procedures are in place to ensure that confidential information held by either the research or investment banking function is handled appropriately. There is no direct link of DBS Group's compensation to any specific investment banking function of the DBS Group.

COMPANY-SPECIFIC / REGULATORY DISCLOSURES

1. DBS Bank Ltd, DBS HK, DBS Vickers Securities (Singapore) Pte Ltd ("DBSVS") or their subsidiaries and/or other affiliates have proprietary positions in CapitaLand Integrated Commercial Trust, Suntec REIT, Mapletree Industrial Trust, Mapletree Logistics Trust, Frasers Logistics & Commercial Trust, Frasers Centrepoint Trust, Ascott Residence Trust, CapitaLand China Trust, Keppel REIT, OUE Commercial REIT, SPH REIT, Starhill Global REIT, Sasseur REIT, ARA US Hospitality Trust, CDL Hospitality Trust, Frasers Hospitality Trust, Far East Hospitality Trust, AIMS AMP Capital Industrial REIT, Ascendas REIT, Ascendas India Trust, Daiwa House Logistics Trust, Digital Core REIT, Keppel DC REIT, Manulife US Real Estate Inv, Keppel Pacific Oak UR REIT, Prime US REIT, Cromwell European Real Estate Investment Trust, Parkway Life Real Estate Investment Trust, recommended in this report as of 28 Feb 2022.
2. DBS Bank Ltd, DBS HK, DBSVS, their subsidiaries and/or other affiliates have a net long position exceeding 0.5% of the total issued share capital in Suntec REIT, Mapletree Industrial Trust, Mapletree Logistics Trust, Frasers Logistics & Commercial Trust, Frasers Centrepoint Trust, CapitaLand China Trust, OUE Commercial REIT, SPH REIT, Starhill Global REIT, Sasseur REIT, ARA US Hospitality Trust, Frasers Hospitality Trust, Ascendas REIT, Daiwa House Logistics Trust, Digital Core REIT, Keppel DC REIT, Manulife US Real Estate Inv, Keppel Pacific Oak US REIT, Prime US REIT, Cromwell European Real Estate Investment Trust, recommended in this report as of 28 Feb 2022.
3. DBS Bank Ltd, DBS HK, DBSVS, DBSVUSA or their subsidiaries and/or other affiliates beneficially own a total of 1% of any class of common equity securities of Suntec REIT, Mapletree Industrial Trust, Mapletree Logistics Trust, Frasers Logistics & Commercial Trust, Frasers Centrepoint Trust, OUE Commercial REIT, Starhill Global REIT, Sasseur REIT, ARA US Hospitality Trust, Frasers Hospitality Trust, Ascendas REIT, Daiwa House Logistics Trust, Digital Core REIT, Keppel DC REIT, Manulife US Real Estate Inv, Keppel Pacific Oak US REIT, Prime US REIT, Cromwell European Real Estate Investment Trust, as of 28 Feb 2022.

¹ An associate is defined as (i) the spouse, or any minor child (natural or adopted) or minor step-child, of the analyst; (ii) the trustee of a trust of which the analyst, his spouse, minor child (natural or adopted) or minor step-child, is a beneficiary or discretionary object; or (iii) another person accustomed or obliged to act in accordance with the directions or instructions of the analyst.

² Financial interest is defined as interests that are commonly known financial interest, such as investment in the securities in respect of an issuer or a new listing applicant, or financial accommodation arrangement between the issuer or the new listing applicant and the firm or analysis. This term does not include commercial lending conducted at arm's length, or investments in any collective investment scheme other than an issuer or new listing applicant notwithstanding the fact that the scheme has investments in securities in respect of an issuer or a new listing applicant.

Compensation for investment banking services:

4. DBS Bank Ltd, DBS HK, DBSVS their subsidiaries and/or other affiliates of DBSVUSA have received compensation, within the past 12 months for investment banking services from CapitaLand Integrated Commercial Trust, Mapletree Industrial Trust, Mapletree Logistics Trust, Frasers Logistics & Commercial Trust, CapitaLand China Trust, Keppel REIT, OUE Commercial REIT, Starhill Global REIT, AIMS AMP Capital Industrial REIT, Ascendas REIT, Daiwa House Logistics Trust, Digital Core REIT, Keppel DC REIT, Manulife US Real Estate Inv, Prime US REIT, Cromwell European Real Estate Investment Trust, Parkway Life Real Estate Investment Trust, as of 28 Feb 2022.
5. DBS Bank Ltd, DBS HK, DBSVS, their subsidiaries and/or other affiliates of DBSVUSA have managed or co-managed a public offering of securities for CapitaLand Integrated Commercial Trust, Mapletree Industrial Trust, Mapletree Logistics Trust, Frasers Logistics & Commercial Trust, CapitaLand China Trust, Keppel REIT, OUE Commercial REIT, Starhill Global REIT, AIMS AMP Capital Industrial REIT, Ascendas REIT, Daiwa House Logistics Trust, Digital Core REIT, Keppel DC REIT, Manulife US Real Estate Inv, Keppel Pacific Oak US REIT, Prime US, in the past 12 months, as of 28 Feb 2022.
6. DBSVUSA does not have its own investment banking or research department, nor has it participated in any public offering of securities as a manager or co-manager or in any other investment banking transaction in the past twelve months. Any US persons wishing to obtain further information, including any clarification on disclosures in this disclaimer, or to effect a transaction in any security discussed in this document should contact DBSVUSA exclusively.

Disclosure of previous investment recommendation produced:

7. DBS Bank Ltd, DBS Vickers Securities (Singapore) Pte Ltd ("DBSVS"), their subsidiaries and/or other affiliates may have published other investment recommendations in respect of the same securities / instruments recommended in this research report during the preceding 12 months. Please contact the primary analyst listed on page 1 of this report to view previous investment recommendations published by DBS Bank Ltd, DBS Vickers Securities (Singapore) Pte Ltd ("DBSVS"), their subsidiaries and/or other affiliates in the preceding 12 months.

RESTRICTIONS ON DISTRIBUTION

General	This report is not directed to, or intended for distribution to or use by, any person or entity who is a citizen or resident of or located in any locality, state, country or other jurisdiction where such distribution, publication, availability or use would be contrary to law or regulation.
Australia	<p>This report is being distributed in Australia by DBS Bank Ltd, DBS Vickers Securities (Singapore) Pte Ltd ("DBSVS") or DBSV HK. DBS Bank Ltd holds Australian Financial Services Licence no. 475946.</p> <p>DBS Bank Ltd, DBSVS and DBSV HK are exempted from the requirement to hold an Australian Financial Services Licence under the Corporation Act 2001 ("CA") in respect of financial services provided to the recipients. Both DBS and DBSVS are regulated by the Monetary Authority of Singapore under the laws of Singapore, and DBSV HK is regulated by the Hong Kong Securities and Futures Commission under the laws of Hong Kong, which differ from Australian laws.</p> <p>Distribution of this report is intended only for "wholesale investors" within the meaning of the CA.</p>
Hong Kong	<p>This report has been prepared by a person(s) who is not licensed by the Hong Kong Securities and Futures Commission to carry on the regulated activity of advising on securities in Hong Kong pursuant to the Securities and Futures Ordinance (Chapter 571 of the Laws of Hong Kong). This report is being distributed in Hong Kong and is attributable to DBS Bank (Hong Kong) Limited ("DBS HK"), a registered institution registered with the Hong Kong Securities and Futures Commission to carry on the regulated activity of advising on securities pursuant to the Securities and Futures Ordinance (Chapter 571 of the Laws of Hong Kong). DBS Bank Ltd., Hong Kong Branch is a limited liability company incorporated in Singapore.</p> <p>For any query regarding the materials herein, please contact Carol Wu (Reg No. AH8283) at dbsvhk@dbs.com</p>
Indonesia	This report is being distributed in Indonesia by PT DBS Vickers Sekuritas Indonesia.
Malaysia	<p>This report is distributed in Malaysia by AllianceDBS Research Sdn Bhd ("ADBRS"). Recipients of this report, received from ADBRS are to contact the undersigned at 603-2604 3333 in respect of any matters arising from or in connection with this report. In addition to the General Disclosure/Disclaimer found at the preceding page, recipients of this report are advised that ADBRS (the preparer of this report), its holding company Alliance Investment Bank Berhad, their respective connected and associated corporations, affiliates, their directors, officers, employees, agents and parties related or associated with any of them may have positions in, and may effect transactions in the securities mentioned herein and may also perform or seek to perform broking, investment banking/corporate advisory and other services for the subject companies. They may also have received compensation and/or seek to obtain compensation for broking, investment banking/corporate advisory and other services from the subject companies.</p> <p style="text-align: right;"> Wong Ming Tek, Executive Director, ADBRS</p>
Singapore	This report is distributed in Singapore by DBS Bank Ltd (Company Regn. No. 196800306E) or DBSVS (Company Regn No. 198600294G), both of which are Exempt Financial Advisers as defined in the Financial Advisers Act and regulated by the Monetary Authority of Singapore. DBS Bank Ltd and/or DBSVS, may distribute reports produced by its respective foreign entities, affiliates or other foreign research houses pursuant to an arrangement under Regulation 32C of the Financial Advisers Regulations. Where the report is distributed in Singapore to a person who is not an Accredited Investor, Expert Investor or an Institutional Investor, DBS Bank Ltd accepts legal responsibility for the contents of the report to such persons only to the extent required by law. Singapore recipients should contact DBS Bank Ltd at 6878 8888 for matters arising from, or in connection with the report.

<p>Thailand</p>	<p>This report is being distributed in Thailand by DBS Vickers Securities (Thailand) Co Ltd.</p> <p>For any query regarding the materials herein, please contact [Chanpen Sirithanarattanaku] at [research@th.dbs.com]</p>
<p>United Kingdom</p>	<p>This report is produced by DBS Bank Ltd which is regulated by the Monetary Authority of Singapore.</p> <p>This report is disseminated in the United Kingdom by DBS Vickers Securities (UK) Ltd, ("DBSVUK"). DBSVUK is authorised and regulated by the Financial Conduct Authority in the United Kingdom.</p> <p>In respect of the United Kingdom, this report is solely intended for the clients of DBSVUK, its respective connected and associated corporations and affiliates only and no part of this document may be (i) copied, photocopied or duplicated in any form or by any means or (ii) redistributed without the prior written consent of DBSVUK. This communication is directed at persons having professional experience in matters relating to investments. Any investment activity following from this communication will only be engaged in with such persons. Persons who do not have professional experience in matters relating to investments should not rely on this communication.</p>
<p>Dubai International Financial Centre</p>	<p>This communication is provided to you as a Professional Client or Market Counterparty as defined in the DFSA Rulebook Conduct of Business Module (the "COB Module"), and should not be relied upon or acted on by any person which does not meet the criteria to be classified as a Professional Client or Market Counterparty under the DFSA rules.</p> <p>This communication is from the branch of DBS Bank Ltd operating in the Dubai International Financial Centre (the "DIFC") under the trading name "DBS Bank Ltd. (DIFC Branch)" ("DBS DIFC"), registered with the DIFC Registrar of Companies under number 156 and having its registered office at units 608 - 610, 6th Floor, Gate Precinct Building 5, PO Box 506538, DIFC, Dubai, United Arab Emirates.</p> <p>DBS DIFC is regulated by the Dubai Financial Services Authority (the "DFSA") with a DFSA reference number F000164. For more information on DBS DIFC and its affiliates, please see http://www.dbs.com/ae/our-network/default.page.</p> <p>Where this communication contains a research report, this research report is prepared by the entity referred to therein, which may be DBS Bank Ltd or a third party, and is provided to you by DBS DIFC. The research report has not been reviewed or authorised by the DFSA. Such research report is distributed on the express understanding that, whilst the information contained within is believed to be reliable, the information has not been independently verified by DBS DIFC.</p> <p>Unless otherwise indicated, this communication does not constitute an "Offer of Securities to the Public" as defined under Article 12 of the Markets Law (DIFC Law No.1 of 2012) or an "Offer of a Unit of a Fund" as defined under Article 19(2) of the Collective Investment Law (DIFC Law No.2 of 2010).</p> <p>The DFSA has no responsibility for reviewing or verifying this communication or any associated documents in connection with this investment and it is not subject to any form of regulation or approval by the DFSA. Accordingly, the DFSA has not approved this communication or any other associated documents in connection with this investment nor taken any steps to verify the information set out in this communication or any associated documents, and has no responsibility for them. The DFSA has not assessed the suitability of any investments to which the communication relates and, in respect of any Islamic investments (or other investments identified to be Shari'a compliant), neither we nor the DFSA has determined whether they are Shari'a compliant in any way.</p> <p>Any investments which this communication relates to may be illiquid and/or subject to restrictions on their resale. Prospective purchasers should conduct their own due diligence on any investments. If you do not understand the contents of this document you should consult an authorised financial adviser.</p>

United States	This report was prepared by DBS Bank Ltd. DBSVUSA did not participate in its preparation. The research analyst(s) named on this report are not registered as research analysts with FINRA and are not associated persons of DBSVUSA. The research analyst(s) are not subject to FINRA Rule 2241 restrictions on analyst compensation, communications with a subject company, public appearances and trading securities held by a research analyst. This report is being distributed in the United States by DBSVUSA, which accepts responsibility for its contents. This report may only be distributed to Major U.S. Institutional Investors (as defined in SEC Rule 15a-6) and to such other institutional investors and qualified persons as DBSVUSA may authorize. Any U.S. person receiving this report who wishes to effect transactions in any securities referred to herein should contact DBSVUSA directly and not its affiliate.
Other jurisdictions	In any other jurisdictions, except if otherwise restricted by laws or regulations, this report is intended only for qualified, professional, institutional or sophisticated investors as defined in the laws and regulations of such jurisdictions.

DBS Regional Research Offices

HONG KONG

DBS (Hong Kong) Ltd

Contact: Carol Wu
13th Floor One Island East,
18 Westlands Road,
Quarry Bay, Hong Kong
Tel: 852 3668 4181
Fax: 852 2521 1812
e-mail: dbsvhk@dbs.com

MALAYSIA

AllianceDBS Research Sdn Bhd

Contact: Wong Ming Tek
19th Floor, Menara Multi-Purpose,
Capital Square,
8 Jalan Munshi Abdullah 50100
Kuala Lumpur, Malaysia.
Tel.: 603 2604 3333
Fax: 603 2604 3921
e-mail: general@alliancedbs.com
Co. Regn No. 198401015984 (128540-U)

SINGAPORE

DBS Bank Ltd

Contact: Janice Chua
12 Marina Boulevard,
Marina Bay Financial Centre Tower 3
Singapore 018982
Tel: 65 6878 8888
e-mail: groupresearch@dbs.com
Company Regn. No. 196800306E

INDONESIA

PT DBS Vickers Sekuritas (Indonesia)

Contact: Maynard Priajaya Arif
DBS Bank Tower
Ciputra World 1, 32/F
Jl. Prof. Dr. Satrio Kav. 3-5
Jakarta 12940, Indonesia
Tel: 62 21 3003 4900
Fax: 6221 3003 4943
e-mail: indonesiaresearch@dbs.com

THAILAND

DBS Vickers Securities (Thailand) Co Ltd

Contact: Chanpen Sirithanarattanakul
989 Siam Piwat Tower Building,
9th, 14th-15th Floor
Rama 1 Road, Pathumwan,
Bangkok Thailand 10330
Tel. 66 2 857 7831
Fax: 66 2 658 1269
e-mail: research@th.dbs.com
Company Regn. No 0105539127012
Securities and Exchange Commission, Thailand