CoreNet Global & Hochschule Fresenius Heidelberg present:

MaSTERTALK ESTATE

The new online real estate seminar series from CoreNet Global and Hochschule Fresenius Heidelberg

MasterTalk #6

Speakers:

MARKETS IN TURMOII

OR BUSINESS AS USUAI

How will real estate markets develop after Covid 19?



16/09/2020





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Catella Assumptions for the coming years

THE FORECAST OF FUTURE MARKET DEVELOPMENTS DEPENDS ON A VARIETY OF FACTORS, SOME OF WHICH ARE INFLUENCED BY NATIONAL LEGISLATION. NEVERTHELESS, A NUMBER OF FACTORS CAN BE IDENTIFIED WHICH HAVE A SUPERORDINATE FUNCTION. THE FOLLOWING GENERAL ASSUMPTIONS ARE BASED ON THESE FACTORS WHICH DIFFERS BETWEEN REAL ESTATE SECTORS AND COUNTRIES:

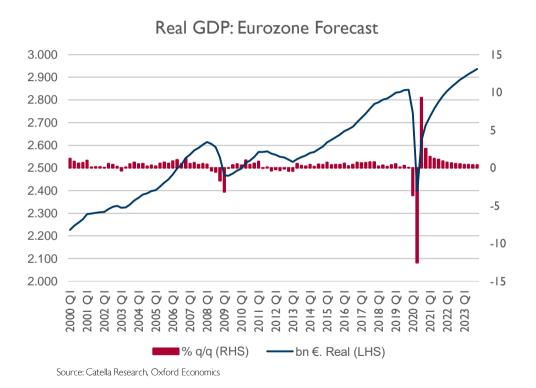
- There will be no second lockdown even if the number of infections increases again, a vaccine against Covid-19 will be available in 2021.
- The number of insolvencies will increase significantly, but mainly small enterprises are affected directly, CRE market will be affected by banks' credit defaults, tightening credit constraints and finally higher financing costs.
- Lower for longer: Ultra loose monetary policy will be continued and central banks will allow Inflation overshooting in the short-term (Average Inflation Targeting).
- ➤ Home Office: Office space requirements will decline moderately in the medium to long-term by approx. ~10 %.





ECONOMIC OUTLOOK

Economic Outlook



We appear to be seeing two opposing trends in macro fundaments. Economic indicators, like the PMI, the Ifo or inflation, are coming in above expectations. But we are also seeing a sharp increase in infections around the globe.

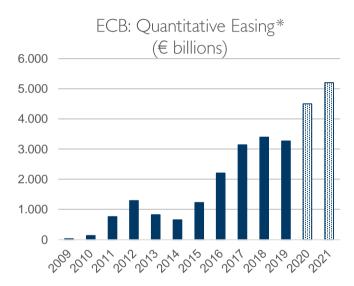
On a positive note, forward-looking sentiment data and realtime activity indicators show that the economy is now starting to recover as quarantines are being lifted.

But with the pandemic hitting some countries harder than others and various degrees of policy responses put in place, the recovery will be uneven across the region. We expect eurozone GDP to contract 7.8% this year, before a solid pick-up to 6.4% growth in 2021.

- Retail sales in Germany and France rebound in May and June
- Labour market data signal some stabilisation
- We expect economies to recover in a tick-shaped fashion
- Fixed income investment will fall sharply to 11.3% in 2020
- But the approval of the EU's €750bn recovery fund should boost investment prospects over the coming years.



From Lender of last Resort to Buyer of last Resort



*Non-standard lending to the banks (via 3-year LTROs and TLTROs) + outstanding stock of assets purchased by the ECB (gov bonds, covered bonds, corporate bonds & asset-backed securities)

Source: Catella Research, Oxford Economics

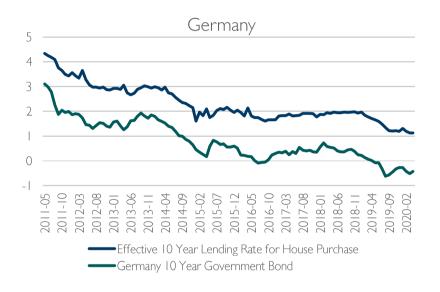
Monetary responses: "Whatever it takes"

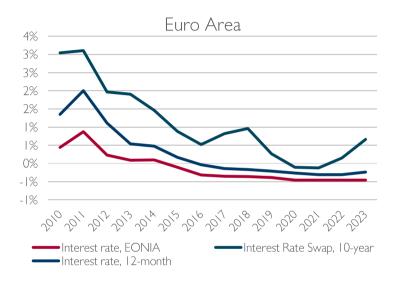
ECB: Additional asset purchases of €120 billion until end-2020 under the existing program (APP). Additional €750 billion asset purchase program of private and public sector securities, expanded the size of the PEPP by €600 billion to €1.35 trillion. The duration has been extended to at least June 2021, and the ECB will reinvest maturing securities until at least the end of 2022. Euro appreciation has raised the stakes for ECB policy: The weak growth and inflation outlooks mean that we still expect monetary conditions to remain ultra-loose for an extended period; we do not expect interest rates to start to rise until 2024.

Riskbank: Extended asset purchases from SEK 300 billion to SEK 500 billion up to the end of June 2021. In September, the Riksbank will also begin purchasing corporate bonds. The Executive Board has further decided to cut interest rates and extend maturities on lending to banks. At the same time, the repo rate is held unchanged at zero per cent.

FED: Federal funds rate were lowered by 150bp in March to 0-0.25bp. Purchase of Treasury and agency securities in the amount as needed (including ETFs). Expanded overnight and term repos. Lowered cost of discount window lending. Reduced existing cost of swap lines with major central banks and extended the maturity of FX operations. Switch to Average Inflation Targeting (AIT) announced.

Yields Likely to Keep Down for Longer





- The low interest phase and a lack of alternative investment opportunities should lead to a further increase in the real estate allocation of multi-asset investors.
- The March sell off in bond and equity markets and the sharp rise in volatility increase the attractiveness of real estate investments.
- The question is whether the demand for office space can keep up.



Economic Recovery but Remaining Risks



- Central banks and politicians will prevent a follow-up financial crisis
- Combined fiscal & central bank aid will approach 30% of GDP by year-end, with loan guarantees worth 50% of GDP
- Monetary policy supports real asset prices
- Virus trends will not lead into a second wave of harsh lockdowns infection wave in Europe remain suitable flat
- Economic recovery rebounds rapidly no V-shape but rather a tick-shaped recovery profile
- Retail sales in May raised by 17.8% in Eurozone
- Environment for real estate investments remains good, still high amount of available capital
- Fiscal deficits arising from loss of revenue will not drive growth
- Collapsing world trade will feedback into growth and disinflation
- Risks that the labour market could suffer more long-term: The OECD unemployment rate increased by an unprecedented 2.9 percentage points in April 2020 to 8.4% (by 18.4 million to 55 million)
- Liquidity difficulties could turn into solvency problems for many companies
- Brexit: A failure to secure an agreement on the future trading relationship could also result in lower growth, particularly for the UK



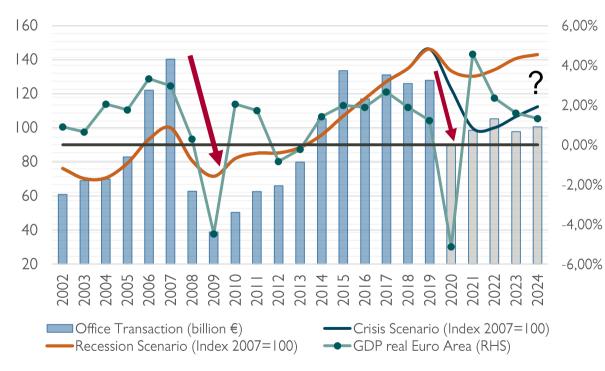
European Transaction Volume vs. GDP & Insolvencies



- A record-high increase in insolvencies is expected.
- Unlike in 2007-2009, all regions and countries are expected to post double-digit increases in insolvencies. Bulk of insolvencies to be recorded between H2 2020 and H1 2021.
- The uncertainty triggered by Codiv-19 resulted in a slowdown in investment activity in Q2 in most European markets as investors became more cautious, but hope that we may have passed the nadir of this cycle in May.
- Brexit caution continues to be a factor and explains the huge gap between the investment volumes in the UK and in Continental Europe.



Office: Transaction Volume vs. GDP & Capital Growth Index

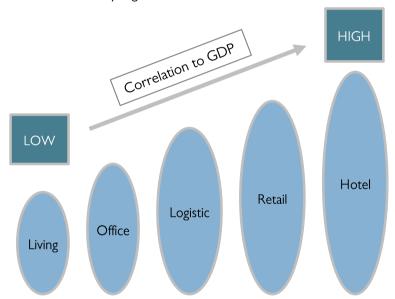


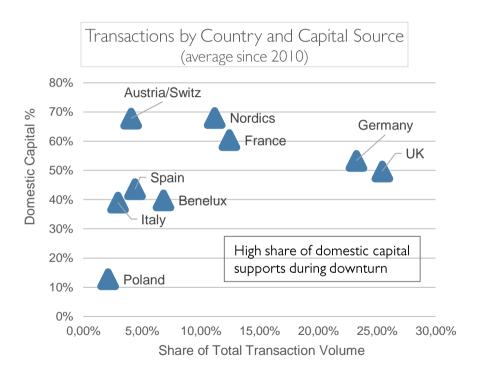
- Take up: Demand in all European markets in Q2 2020 was 33% down on the Q1 level.
- Comparing take up in H I 2020 to the take up in the first half of 2019 the percentage of cities which have recorded a slowdown reaches 88%.
- An overall decline of transaction volume in the range of 20-30% for 2020 seems probable



GDP Correlation & Transaction Volume by origign

While the housing market is mainly driven by demographics and household income, the GDP impact (Covid-19) on the hotel market is very high.

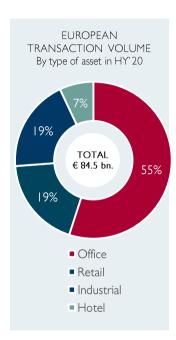








Country Review HY – Commercial Investment Market

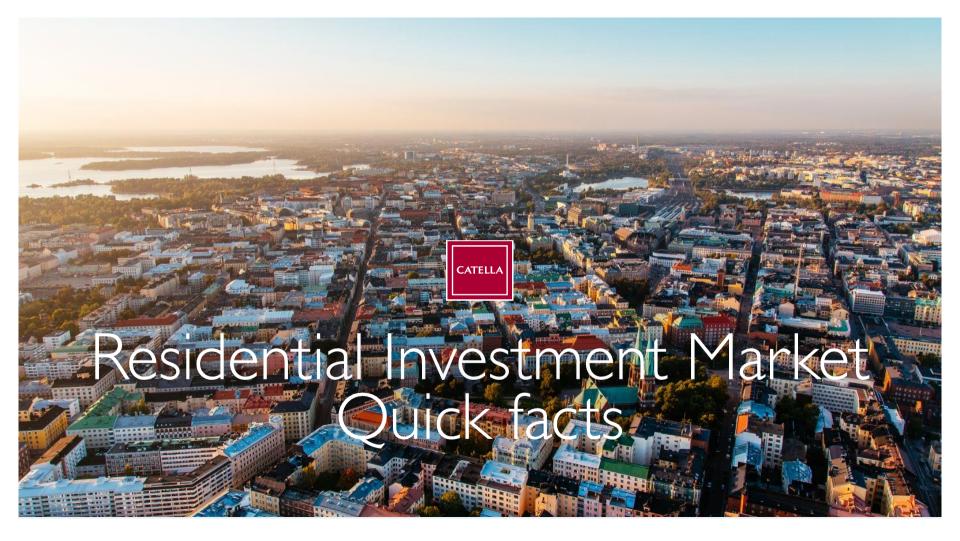


1 Germany	€ 25.2 bn.
2 United Kingdom	€ 13.3 bn.
3 France	€ 12.8 bn.
Nordics (SE, FI, NO, DK, IS)	€ 11.7 bn.
Turnaround Europe (IE, PT, ES, GR, MT, CY, IT)	€ 8.4 bn.
Benelux (BE, NL, LU)	€ 7.0 bn.
7 Central Europe (PL, CZ, SK, HU)	€ 3.4 bn.
6 Austria & Switzerland	€ 2.0 bn.
9 Eastern Europe	€ 0.7 bn.
Total	€ 84.5 bn.*

^{*} Commercial = office, logistics/industrial, retail, hotel







EUROPEAN RESIDENTIAL INVESTMENT MARKET VOLUME 2020

Country Review – HY 2020

	Germany	€ 12.2 bn.
2	United Kingdom	€ 7.2 bn.
3	Nordics (SE, FI, NO, DK, IS)	€ 3.9 bn.
4	Benelux (BE, NL, LU)	€ 2.2 bn.
5	France	€ 2.1 bn.
6	Central Europe (PL, CZ, SK, HU)	€ 1.4 bn.
7	Turnaround Europe (IE, PT, ES, GR, MT, CY, IT)	€ 1.2 bn.
8	Austria & Switzerland	€ 1.3 bn.
9	Eastern Europe	€ 0.0 bn.
Tota	1	€ 31.5 bn.

^{*} Residential and student housing properties with minimum 10 units, Condominium transactions and single family houses are excluded.





Country Focus – HY 2020

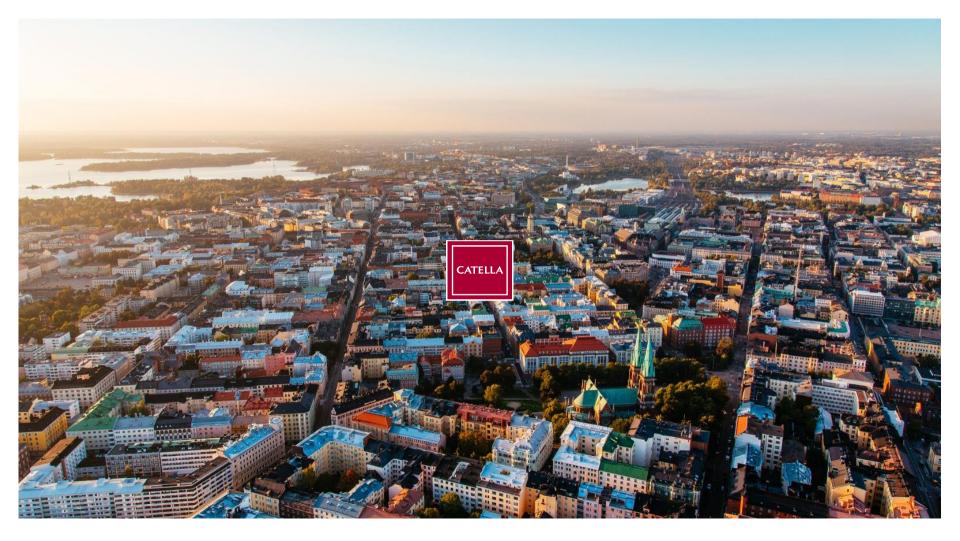
Nordics (SE, FI, NO, DK, IS)	€ 3.9 bn.
Sweden	€ 1.9 bn.
Denmark	€ 1.4 bn.
Finland	€ 0.4 bn.
Norway	€ 0.2 bn.
Benelux (BE, NL, LU)	€ 2.2 bn.
Netherlands	€ 2.1 bn.
Belgium	€ 0.0 bn.
Luxembourg	€ 0.1 bn.

^{*} Residential and student housing properties with minimum 10 units. Condominium transactions and single family houses are excluded.

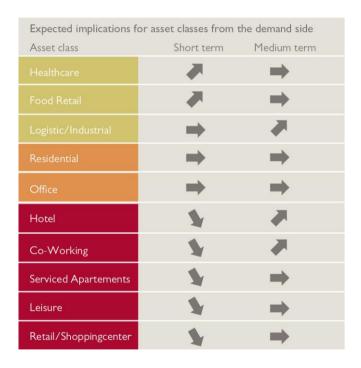
Turnaround Europe (IE, PT, ES, GR, MT, CY, IT)	€ 1.2 bn.
Spain	€ 0.7 bn.
Ireland	€ 0.4 bn.
Portugal	€ 0.0 bn.
Italy	€0.1 bn.
Greece	€-
Cyprus	€ -
Malta	€ -
Central Europe (PL, CZ, SK, HU)	€ 1.4 bn.
Poland	€0.1 bn.
Czech Republic	€ 1.3 bn.
Hungary	€ 0.0 bn.
Slovakia	€ -

Source: Catella Research 2020, RCA





Implications For Asset Classes...



Logistics and residential real estate as beneficiaries of the crisis

Logistic/Industrial: suffers in the short-term from disrupted supply chains while e-commerce boosts demand of some goods (Food, drugstore, medicines), profits in the long-term from higher safety stock levels and reshoring-trend

Residential: relatively insensitive to exogenous shocks, more likely to be determined by population growth and long-term trends

Office: react cyclically, too a very high degree dependent on economic recovery

Hotels and restaurants are particularly hard hit by COVID-19 but and easing restrictions and catch up events could lead to a strong increase in second half of the year

Retail is under pressure (exc. food), private consumption may rise sharply after the crisis

But this also means that now is the time for real estate investment to continue to proactively pursue real estate issues sustainable for investments to be made in line with digitalisation, risk management and ESG.







Asia-Pacific Real Estate

Tim Armstrong



COVID-19's impact

How has real estate values and investor sentiment changed?



How Has COVID-19 Impacted Real Estate Values?

H1 2020

- Commercial values are declining or expected to decline across most sectors.
- Industrial showing most resilience.
- Current value declines driven by weak rent growth.

ASIA PACIFIC VALUATION DATA DASHBOARD

CETS		Prime Re	esidential	Prime	Office	Prime	e Retail	High-tier	Industrial	High-end I	Hospitality
MARKETS	CITY	VALUE MOVEMENT	FORECAST	VALUE MOVEMENT	FORECAST	VALUE MOVEMENT	FORECAST	VALUE MOVEMENT	FORECAST	VALUE MOVEMENT	FORECAST
	Sydney	→	4	+	→	+	4	→	→	4	+
FILIA	Melbourne	→	4	4	→	+	4	→	→	4	4
AUSTRALIA	Brisbane	→	4	4	→	4	4	→	→	4	4
AU	Auckland	→	→	4	→	4	4	→	→	4	4
	Christchurch	→	→	→	→	4	4	→	→	4	4
	Beijing	4	→	4	4	4	4	↑	→	4	4
	Shanghai	↑	↑	4	4	+	4	↑	↑	4	4
	Guangzhou	4	↑	4	+	4	4	→	→	4	4
ASIA	Shenzhen	↑	↑	4	4	4	4	↑	→	4	4
EAST	Hong Kong	→	→	4	4	4	4	→	→	4	4
ш	Taipei	↑	↑	↑	↑	4	4	↑	↑	4	4
	Tokyo	→	→	→	→	4	4	→	→	4	4
	Seoul	↑	↑	↑	→	4	4	↑	↑	4	4
INDIA	Mumbai	4	4	↑	→	4	4	→	→	4	4
ž	NCR	4	4	4	4	4	4	→	→	4	4
	Singapore	4	4	4	4	4	4	4	4	4	4
	Kuala Lumpur	4	→	4	4	→	4	→	→	4	4
z	Penang	→	→	→	↑	4	4	↑	↑	4	4
ASEAN	Jakarta	4	4	4	4	4	4	→	→	4	4
A	Bangkok	4	4	→	→	4	4	→	↑	4	4
	Manila	→	4	→	4	4	→	→	→	4	4
	Phnom Penh	4	4	→	4	→	→	→	→	4	4



How About Cap Rates?

- Cap rates have largely remained stable in H1 2020 supported mainly by low interest rates.
- However, quite a few markets are forecast to see cap rates expand going forward; putting more pressure on values.

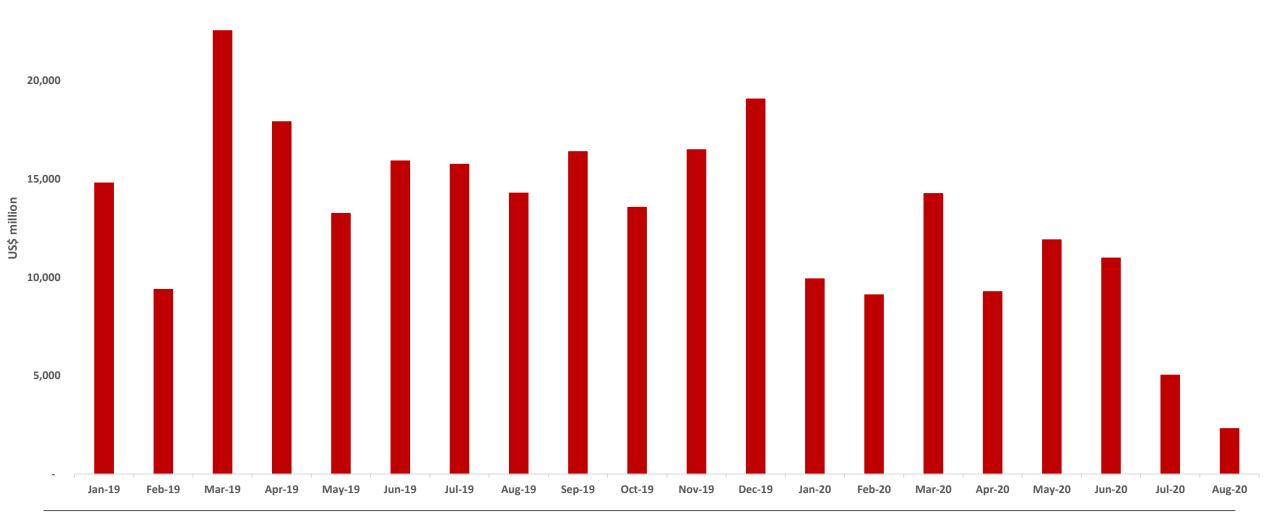
ASIA-PACIFIC COMMERCIAL YIELDS				
CITY	SECTOR	YIELD	YIELD FORECAST	
	OFFICE	4.4%	↑	
SHANGHAI	RETAIL	4.5%	↑	
	INDUSTRIAL	5.1%	4	
	OFFICE	4.5%	↑	
BEIJING	RETAIL	5.0%	↑	
	INDUSTRIAL	5.5%	4	
SEOUL	OFFICE	4.5%	↑	
	OFFICE	2.8%	→	
HONG KONG	RETAIL	2.6%	4	
	INDUSTRIAL	2.9%	→	
	OFFICE	3.4%	→	
токуо	RETAIL	4.6%	↑	
	INDUSTRIAL	4.5%	→	
	OFFICE	5.9%	→	
MANILA	RETAIL	7.1%	↑	
BANGKOK	OFFICE	6.5%	→	
	OFFICE	6.5%	→	
KUALA LUMPUR	RETAIL	6.8%	↑	
	INDUSTRIAL	7.0%	→	
	OFFICE	4.0%	→	
SINGAPORE	RETAIL	4.7%	→	
	INDUSTRIAL	6.2%	→	
141/4574	OFFICE	6.5%	↑	
JAKARTA	RETAIL	8.0%	↑	
aveney.	OFFICE	4.4%	↑	
SYDNEY	INDUSTRIAL	5.5%	↑	
MELDOURNE	OFFICE	4.7%	↑	
MELBOURNE	INDUSTRIAL	6.3%	↑	
	OFFICE	8.6%	→	
INDIA (TIER-1 CITIES)	RETAIL	8.4%	↑	
	INDUSTRIAL	8.8%	→	



Commercial Transaction Volume Declines

Asia-Pacific (2019 to date)

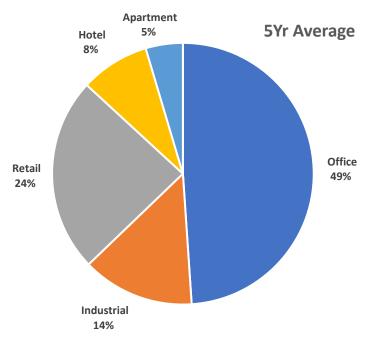
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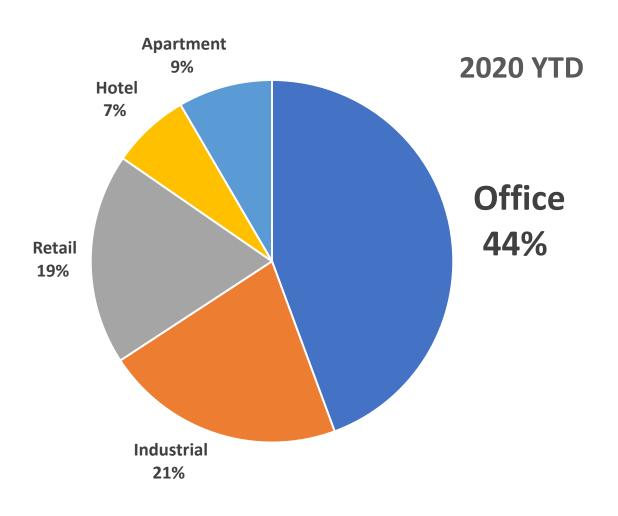


Growing Investor Appetite For Industrial Assets

Sector Breakdown as of end-Aug



- Office remains the most popular asset class across the Asia-Pacific region
- Industrial market share is 50% higher compared to its 5-year historical average

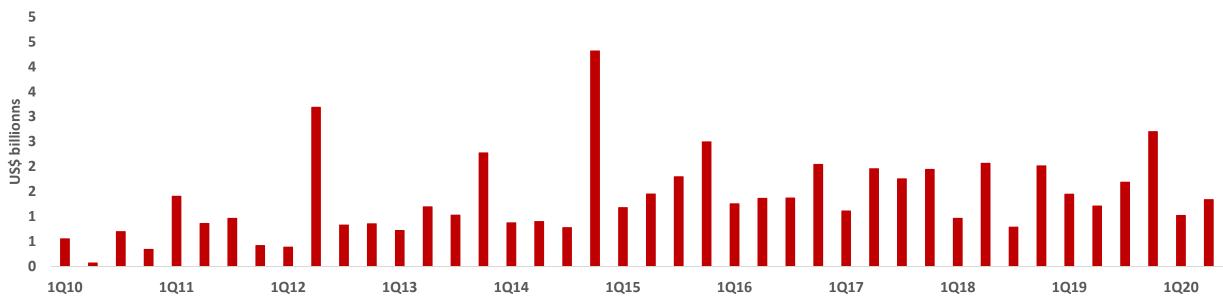




Flight To Safety And The Rise Of Safe Havens

A look at APAC capital into Australia





- Asia-Pacific capital invested in Australia amounted to US\$1.34bn in Q2 2020
- This is up 31% QoQ from Q1 and 10% YoY from Q2 2019
- Highlights the flight to safety trend as investors are left with little choice within APAC

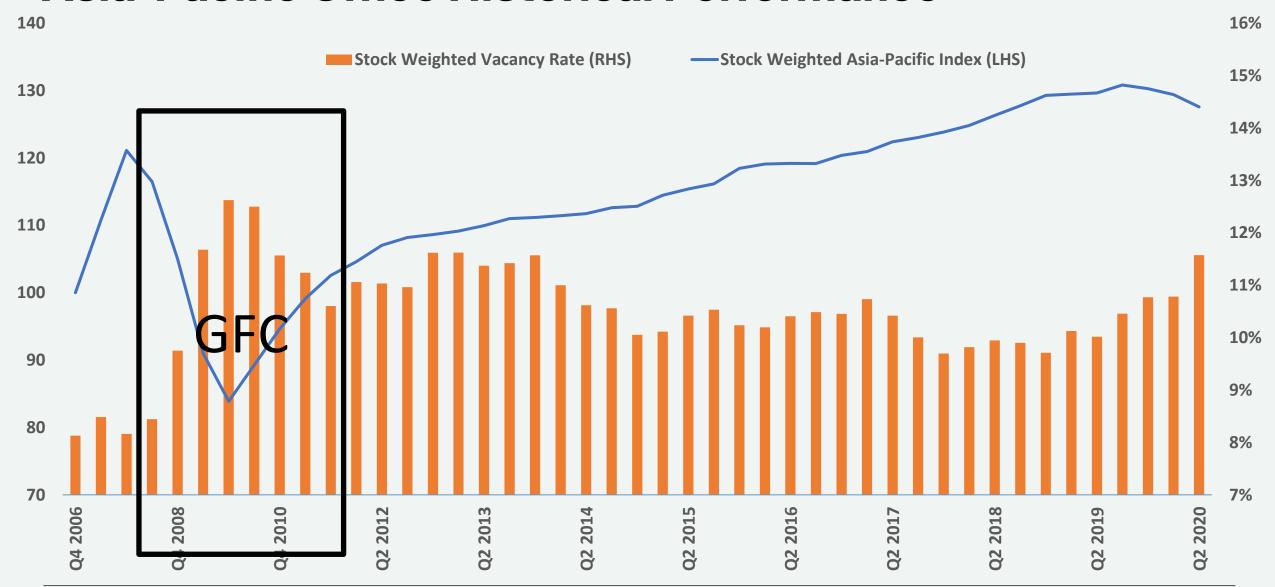


Asia-Pacific's recovery

A look at the office sector



Asia-Pacific Office Historical Performance





Office: Leasing Recovery As Markets Eased Lockdowns

City	Leasing Activity (end-May)
Sydney	↑
Jakarta	\
Singapore	\downarrow
Kuala Lumpur	\downarrow
Bangkok	↑
Manila	V
Phnom Penh	\downarrow
Tokyo	\downarrow
Seoul	\downarrow
Taipei	↑
Shanghai	↓
Beijing	\downarrow
Guangzhou	↑
Shenzhen	\rightarrow
Hong Kong	\rightarrow
Mumbai	\rightarrow
Delhi	\rightarrow
Bangalore	\rightarrow

	_	
	City	Leasing Activity (end-June)
	Sydney	↑
	Jakarta	\rightarrow
	Singapore	V
	Kuala Lumpur	↑
	Bangkok	\uparrow
	Manila	V
	Phnom Penh	V
	Tokyo	V
•	Seoul	V
	Taipei	↑
	Shanghai	\rightarrow
	Beijing	V
	Guangzhou	↑
	Shenzhen	\uparrow
	Hong Kong	\rightarrow
	Mumbai	\rightarrow
	Delhi	\rightarrow
	Bangalore	\rightarrow

City	Leasing Activity (end-July)
Sydney	\rightarrow
Auckland	\downarrow
Jakarta	\rightarrow
Singapore	\downarrow
Kuala Lumpur	^
Bangkok	↑
Manila	\downarrow
Phnom Penh	\rightarrow
Tokyo	\downarrow
Seoul	\rightarrow
Taipei	\rightarrow
Shanghai	\rightarrow
Beijing	\downarrow
Guangzhou	^
Shenzhen	^
Hong Kong	\rightarrow
Mumbai	\rightarrow
Delhi	\rightarrow
Bangalore	\rightarrow



Office: Market Balance Tilted In Tenant's Favor

City	Market Favourable Conditions (end-May)
Sydney	Tenant
Jakarta	Tenant
Singapore	Tenant
Kuala Lumpur	Tenant
Bangkok	Landlord
Manila	Tenant
Phnom Penh	Tenant
Tokyo	Landlord
Seoul	Balanced
Taipei	Landlord
Shanghai	Tenant
Beijing	Tenant
Guangzhou	Balanced
Shenzhen	Balanced
Hong Kong	Tenant
Mumbai	Balanced
Delhi	Balanced
Bangalore	Balanced

	City	Market Favourable Conditions (end-June)
	Sydney	Tenant
	Jakarta	Balanced
	Singapore	Tenant
	Kuala Lumpur	Tenant
	Bangkok	Landlord
	Manila	Tenant
	Phnom Penh	Tenant
•	Tokyo	Landlord
	Seoul	Balanced
	Taipei	Tenant
	Shanghai	Landlord
	Beijing	Tenant
	Guangzhou	Tenant
	Shenzhen	Tenant
	Hong Kong	Tenant
	Mumbai	Balanced
	Delhi	Balanced
	Bangalore	Balanced

City	Market Favourable Conditions (end-July)
Sydney	Tenant
Auckland	Tenant
Jakarta	Tenant
Singapore	Tenant
Kuala Lumpur	Tenant
Bangkok	Balanced
Manila	Tenant
Phnom Penh	Tenant
Tokyo	Balanced
Seoul	Balanced
Taipei	Landlord
Shanghai	Tenant
Beijing	Tenant
Guangzhou	Tenant
Shenzhen	Tenant
Hong Kong	Tenant
Mumbai	Balanced
Delhi	Balanced
Bangalore	Balanced



Asia-Pacific's recovery

A look at the industrial sector



Industrial: Leasing Hardly Slowed

City	Leasing Activity (end-May)
Sydney	→
Auckland	\rightarrow
Jakarta	1
Singapore	V
Kuala Lumpur	→
Bangkok	→ →
Manila	→
Phnom Penh	4
Tokyo	→
Seoul	→
Taipei	→
Shanghai	1
Beijing	4
Guangzhou	1
Shenzhen	→
Hong Kong	→
Mumbai	1
Delhi	1
Bangalore	1

City	Leasing Activity (end-June)
Sydney	\rightarrow
Auckland	\rightarrow
Jakarta	\rightarrow
Singapore	V
Kuala Lumpur	\rightarrow
Bangkok	1
Manila	\rightarrow
Phnom Penh	V
Tokyo	\rightarrow
Seoul	\rightarrow
Taipei	\rightarrow
Shanghai	\rightarrow
Beijing	V
Guangzhou	↑
Shenzhen	V
Hong Kong	→
Mumbai	^
Delhi	↑
Bangalore	↑

City	Leasing Activity (end-July)
Sydney	\rightarrow
Auckland	\rightarrow
Jakarta	\rightarrow
Singapore	V
Kuala Lumpur	\rightarrow
Bangkok	1
Manila	→
Phnom Penh	. ↓
Tokyo	\rightarrow
Seoul	
Taipei	\rightarrow
Shanghai	\rightarrow
Beijing	4
Guangzhou	1
Shenzhen	\rightarrow
Hong Kong	\rightarrow
Mumbai	\rightarrow
Delhi	\rightarrow
Bangalore	→



Industrial: Market Conditions Mostly Balanced

City	Market Favourable Conditions (end-May)
Sydney	Tenant
Jakarta	Balanced
Singapore	Tenant
Kuala Lumpur	Balanced
Bangkok	Balanced
Manila	Balanced
Phnom Penh	Tenant
Tokyo	Balanced
Seoul	Tenant
Taipei	Balanced
Shanghai	Tenant
Beijing	Tenant
Guangzhou	Balanced
Shenzhen	Balanced
Hong Kong	Tenant
Mumbai	Balanced
Delhi	Balanced
Bangalore	Balanced

City	Market Favourable Conditions (end-June)
Sydney	Tenant
Jakarta	Balanced
Singapore	Tenant
Kuala Lumpur	Balanced
Bangkok	Balanced
Manila	Balanced
Phnom Penh	Tenant
Seoul	Balanced
Taipei	Tenant
Shanghai	Balanced
Beijing	Tenant
Guangzhou	Tenant
Shenzhen	Tenant
Hong Kong	Balanced
Mumbai	Tenant
Delhi	Balanced
Bangalore	Balanced

City	Market Favourable Conditions (end-July)
Sydney	Tenant
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Kuala Lumpur	Balanced
Bangkok	Balanced
Manila	Balanced
Phnom Penh	Tenant
Tokyo	Balanced
Seoul	Balanced
Taipei	Balanced
Shanghai	Tenant
Beijing	Tenant
Guangzhou	Landlord
Shenzhen	Balanced
Hong Kong	Tenant
Mumbai	Balanced
Delhi	Balanced
Bangalore	Balanced



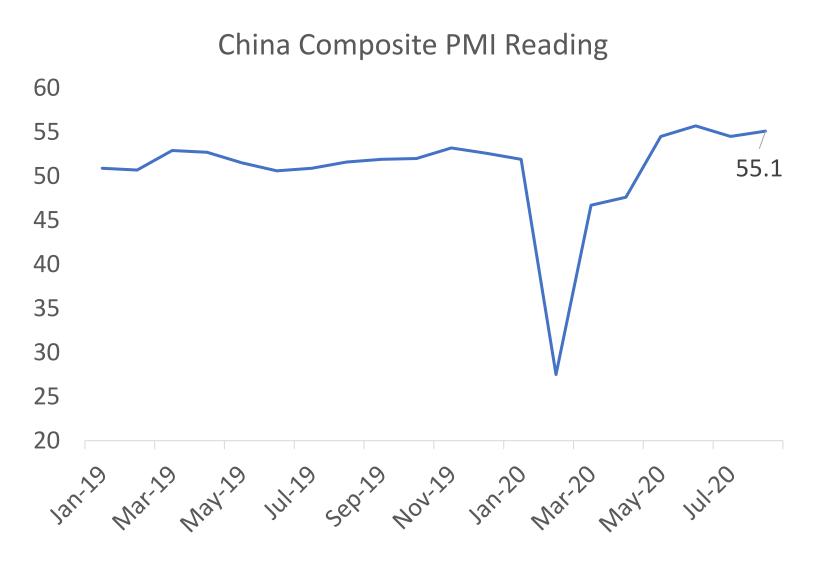
Asia-Pacific's recovery

A look at China's Economy



Leading Composite PMI Indicator Has Turned Positive

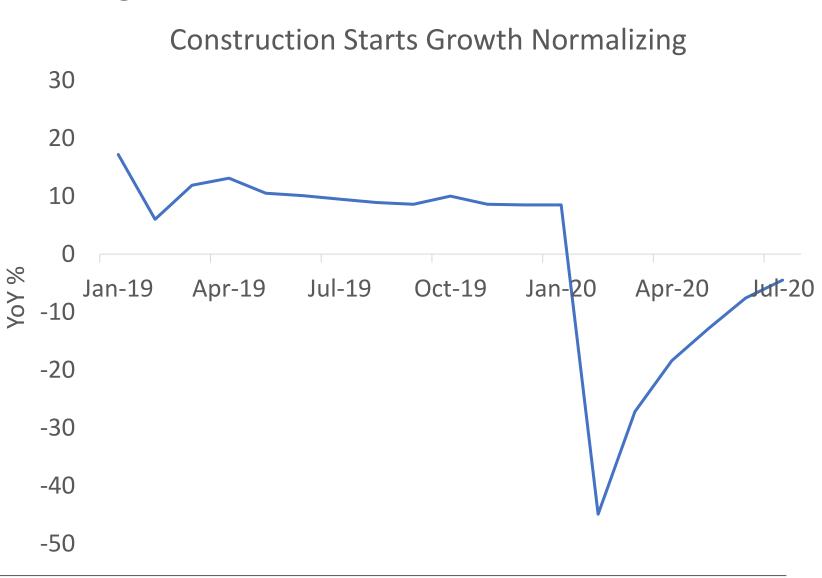
- China's composite PMI has recovered since May.
- Current reading of 55.1 in August indicates healthy recovery trend
- Current PMI outpaces
 2019's 51.9 average reading.
- IMF GDP forecasts
 - 2020:1%
 - 2021: 8.2%





Construction Activity Returning To Normal

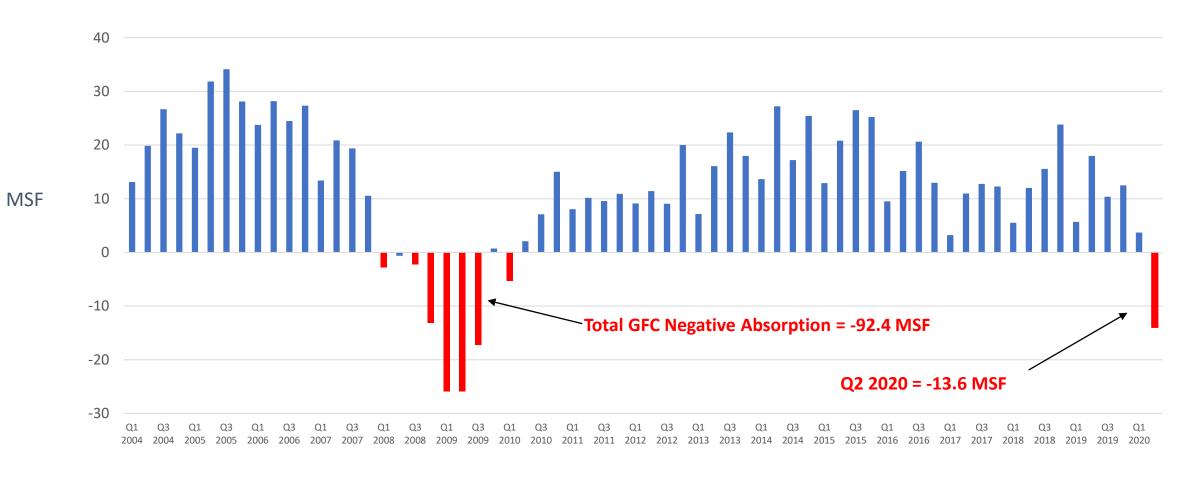
- Construction starts in July fell -4.5% YoY.
- Construction starts rate of decline continues to decelerate.
- Returning construction activity will support GDP recovery given its real estate's large contribution



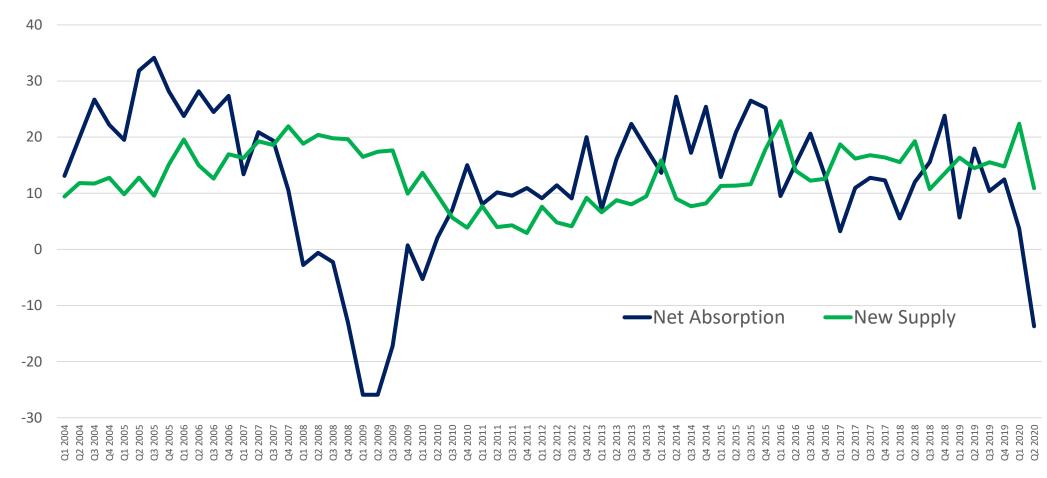




U.S. Office Market: Net Absorption: 2004 – Q2 2020



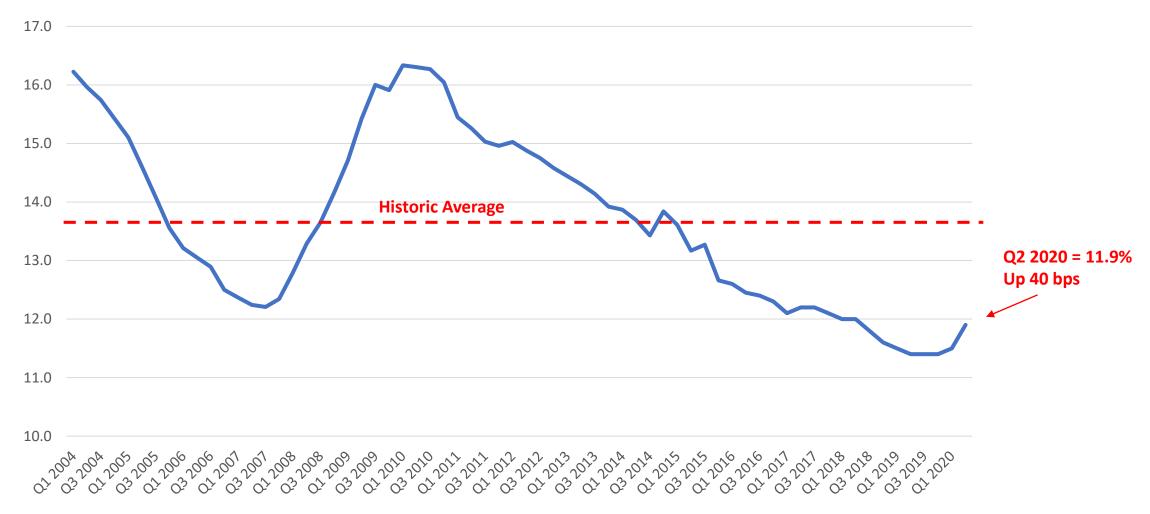
U.S. Office Market: Supply & Demand 2004 – Q2 2020

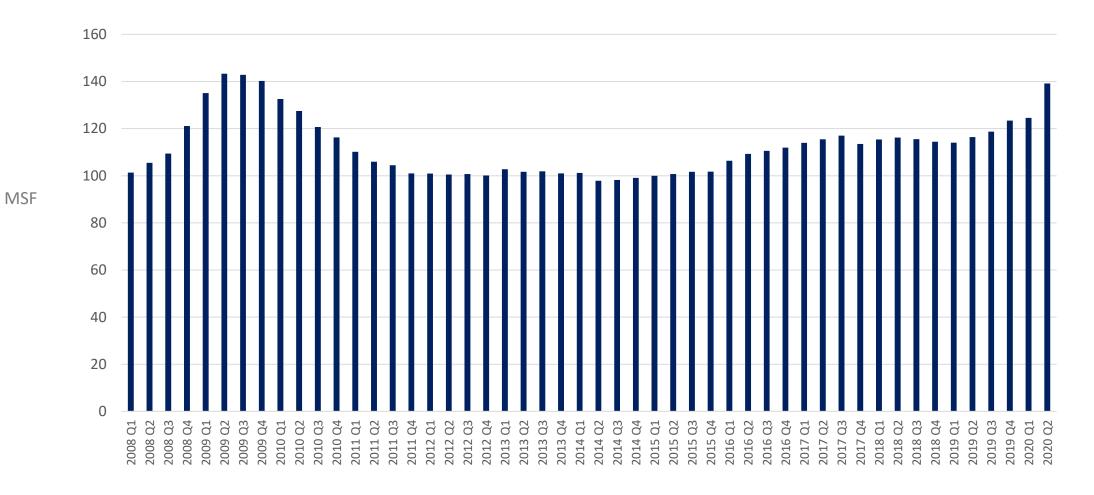


Source: Colliers International

MSF

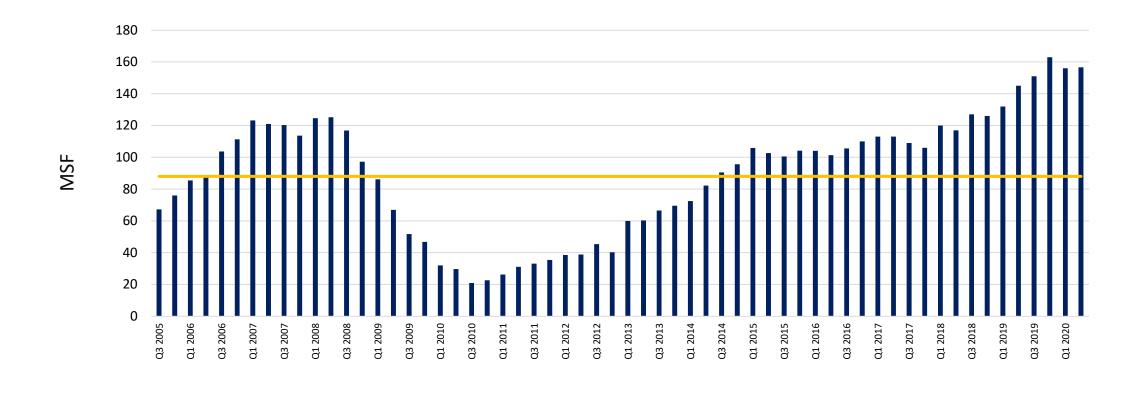
U.S. Office Vacancy Rate: 2004 – Q2 2020 (%)





Source: CoStar

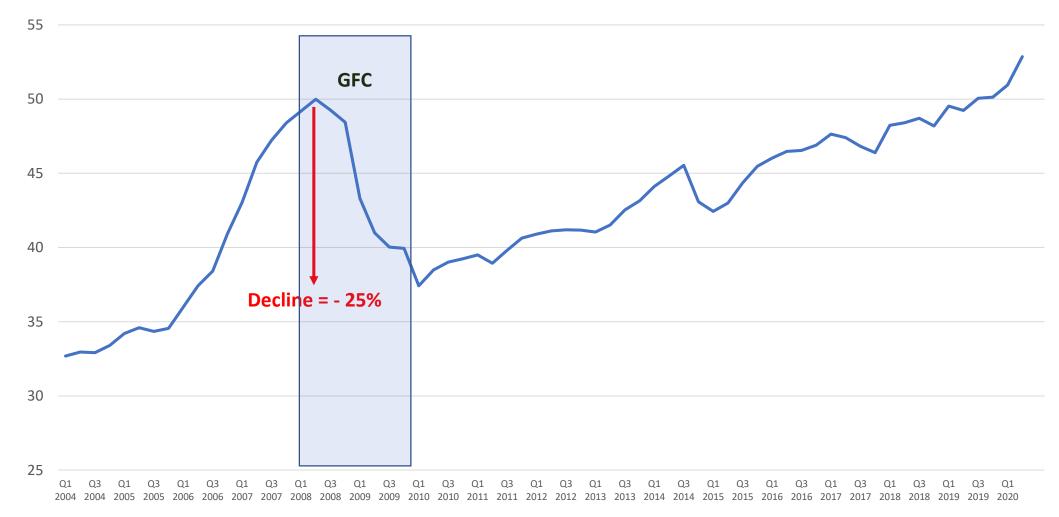
U.S. Office Market: Floorspace Under Construction



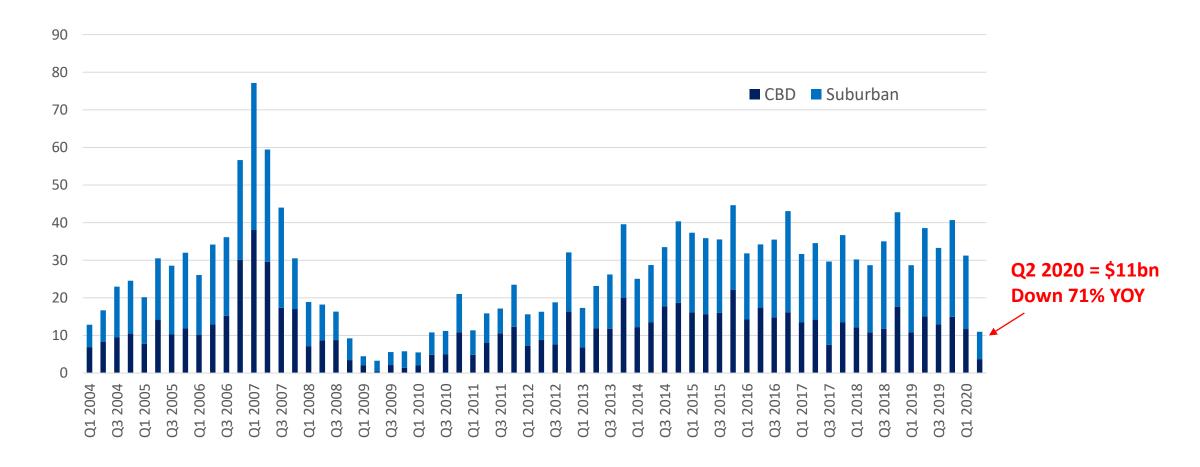
Under Construction — Average

U.S. Office Market: Class A CBD Asking Rents 2004 - 2020





U.S. Office Investment: 2004 - Q2 2020 (\$bn)



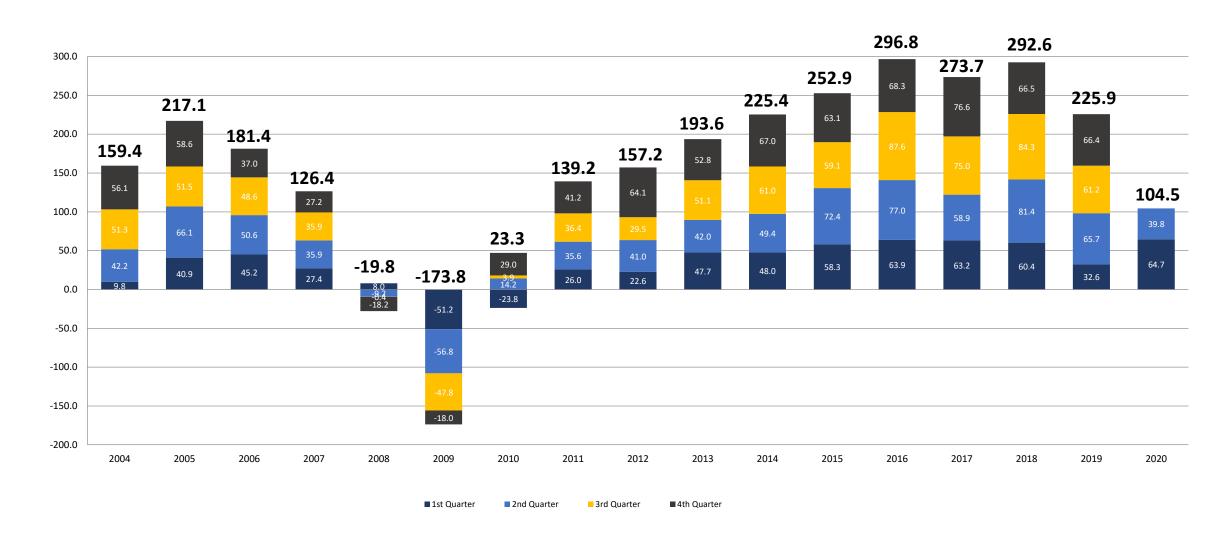
Source: Real Capital Analytics

U.S. Office Market: Recap & Outlook

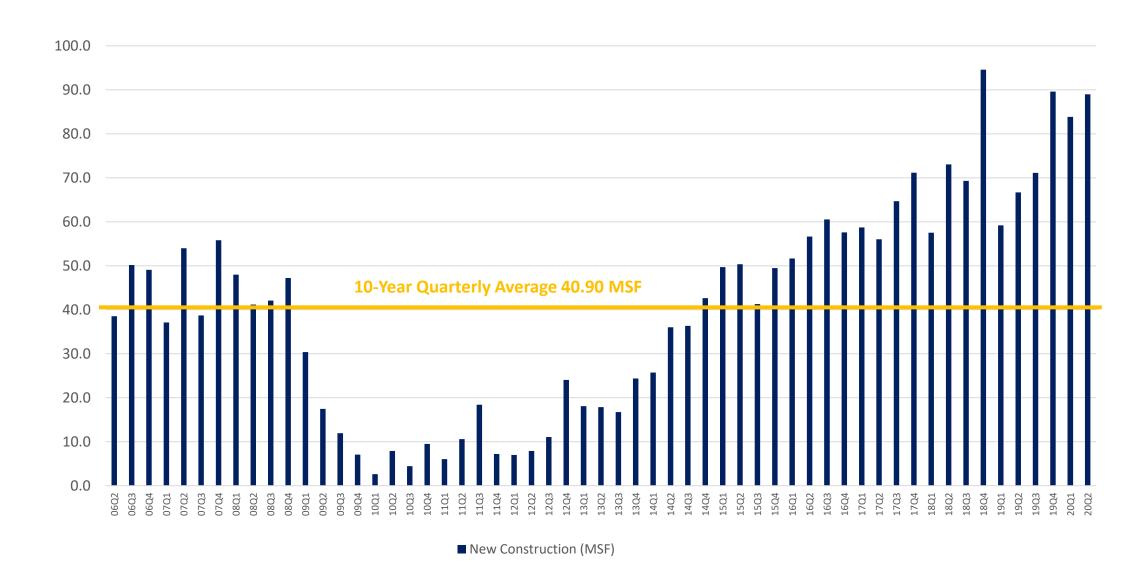
- Negative absorption for the first time 10 years. Downtown markets hardest hit
- Firms reassessing space needs and premises strategy
- Return to the office to take several quarters and involve new space standards
- Vacancy is rising but remains low by historic levels
- Construction levels are elevated. Project timing being revisited
- Rents are holding up for now
- Rising sublease space + subdued demand = falling rents
- Sales market on hold pending price discovery
- In summary:
 - A further 12 months of adjustment
 - No upturn in CRE metrics until late 2021/early 2022



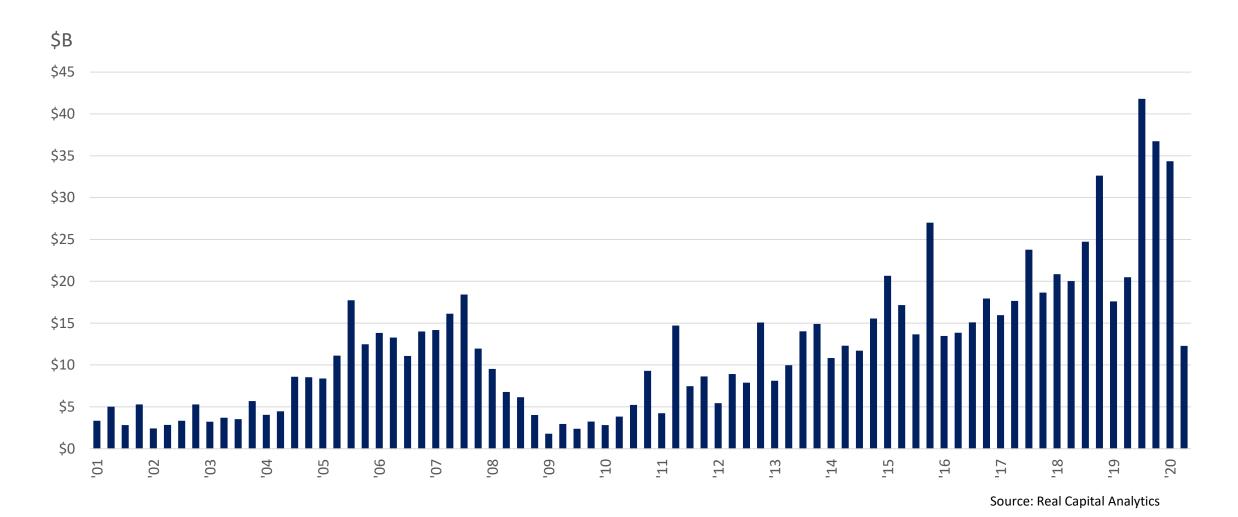
U.S. Industrial Net Absorption Remains Positive



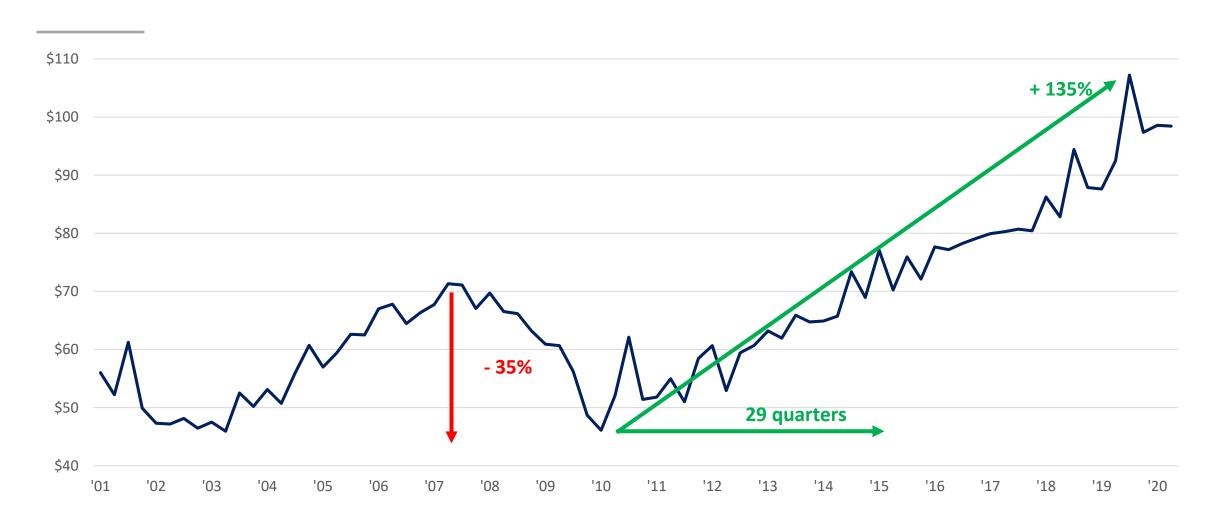
Industrial New Supply Remains High as Projects Continue



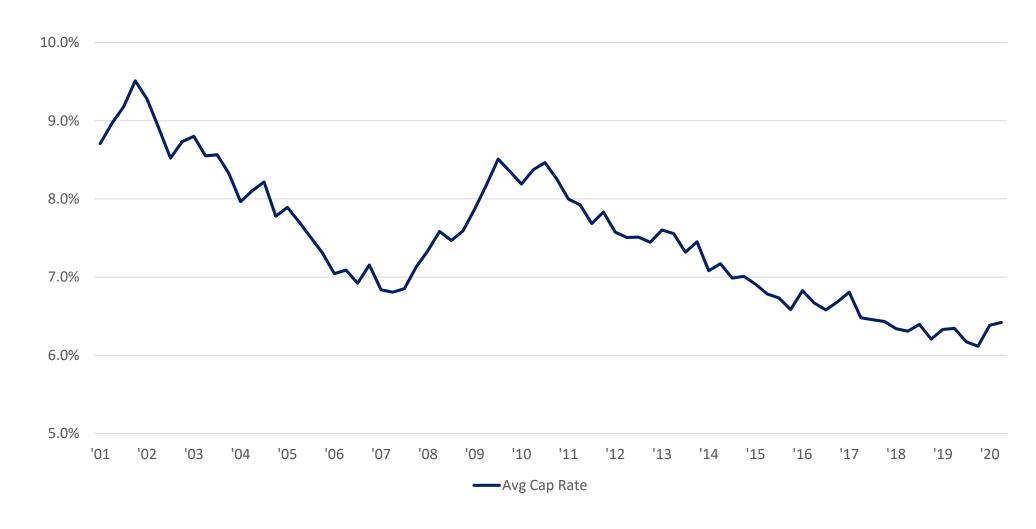
U.S. Industrial Sales Volume: Average Pricing 2001 – YTD 2020



U.S. Industrial: Average Sales Price PSF 2001 – YTD 2020



U.S. Industrial Sector: Cap Rates Inch Higher



U.S. Industrial: What's Next?





RESHORING



AUTOMATION



- Artificial intelligence
- Sophisticated mobile apps
- IoT Connectedness
- Collaborative robots (cobots)

- Decreased reliance on China
- Rising offshore costs/wages
- Faster responsiveness
- Reduce unemployment/create jobs

