

# Side effects of passive growth

Thursday, July 16

Markets boosted by initial better-than-feared Q2 results and vaccine optimism. US-China tension overshadows China's Q2 return to GDP growth today. HOT TOPICS looks at dramatic growth of US\$6.5trn passive investing market and power of big-3 index providers. Boosted liquidity, diversification, and cut costs, but increased correlations, index inclusion speculation (Tesla +50% S&P inclusion price speculation), concentrated fund markets, and impacted governance.

Markets re-opening optimism boosted by Moderna vaccine progress and **outlook for Astra Zeneca trial results**. Goldman Sachs Q2 much better than expected, and key FAANGM Netflix due today with EPSe +200%. Trump re-election campaign replaced manager as election <u>outlook</u> worsened. Asia fell, led by China, on further US-China tensions, whilst Europe and US futures fell after strong gains. We believe markets well-supported.

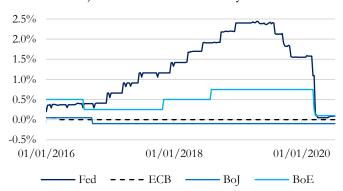
China two-speed growth return. Is first major

**Key Markets Performance Table** 

Index	Level	1D	1W	YTD
S&P500	3197.5	0.9%	1.8%	-0.1%
ACWI xUS	45.1	1.0%	1.2%	-7.2%
DXY USD	96.1	-0.2%	-0.4%	-0.3%
US 10Y YLD	0.63	2.6%	-3.5%	-67.0%
Brent Spot	44.5	1.3%	0.7%	-35.5%
Gold Spot	1811.3	0.2%	0.1%	19.4%

economy to return to growth after recession. Q2 GDP +3.2% yoy, above expectations, and vs Q1 -6.8% yoy, with qoq +11.5%. **Recovery is unbalanced**, and opposite of US, led by industrial output, +4.8% in June y/y and third

#### Major Central Bank Policy Rates



#### HIGHLIGHTS FROM REST OF DOC

- Hot Topics on <u>Passive Growth</u>. ETF AUM up by US\$6.5trn last 10-yrs, helping liquidity, diversification and costs, but increasing correlations, inclusion volatility, and fund concentration.
- What to watch: ECB meeting (no change), US jobless claims (1.25m), Netflix Q2 (+200% yoy)
- Country and Sector 'Eye': We favor US and select EM's, and US Consumer and IT sectors
- <u>Data pages</u>: Performance, valuation, earnings, macro forecasts. See <u>Library</u> for prior dailies

<sup>\*</sup>Sources if not stated are Refinitiv, THR



Index	Level	1D	1W	YTD
S&P500	3197.5	0.9%	1.8%	-0.1%
NASDAQ	10701.7	0.6%	0.6%	17.6%
Russell 2000	1478.3	3.5%	3.6%	-11.4%
US IT	399.3	0.4%	-0.2%	19.2%
US Healthcare	366.9	1.6%	2.7%	5.1%
US Financials	153.0	2.1%	3.6%	-22.0%

month of growth, whilst retail sales fell for fifth month, -1.8% yoy in June, with consumer savings high but confidence remaining low.

**US-China tension**. GDP enthusiasm hurt by further ratcheting of US tensions. Sec. State Pompeo to impose visa restrictions on Chinese firms like Huawei accused of facilitating human-rights violations. Administration also expecting action in 'coming weeks' vs TikTok and WeChat, on national security grounds.

Vaccine momentum. Moderna vaccine trial results boosted markets yesterday, and Oxford/AstraZeneca early-stage results due on Monday, with <u>press reporting</u> positive 'double defence'. US infectious diseases head Fauci predicted will meet goal of vaccine by year end. 16 vaccines in human trials globally, and c192 in development. Progress clear market support.

Oil balancing act. OPEC+ agreed to scale back output cuts as expected, to 7.7mbpd for Aug-Dec vs 9.7mbpd, or 10% of global supply, cuts in place since May. OPEC+ is calibrating production response to rebalancing market and

FX. Fixed Income. Commodities

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Index	Level	1D	1W	YTD
DXY USD Index	96.1	-0.2%	-0.4%	-0.3%
EUR/USD	1.14	0.1%	0.7%	1.8%
US 10Y YLD	0.63	2.6%	-3.5%	-67.0%
US 10-2 BOND	0.48	2.6%	-3.5%	23.1%
CBOE VIX Index	27.8	-6.0%	-1%	101%
CRB Index	2566.7	1.6%	4.1%	-16.8%

#### **Events to Watch**

Indicator	Period	Forecast	Last
Industrial Output YY, China	June	4.72	4.40
Unemplyment Rate, UK	May	4.25	3.90
Jobless Claims, US	w/e 11/06	1.25M	1.31M
Philly Fed Business Index, US	July	18.58	27.50

looking to keep Brent above US\$40/bbl. Energy Information Administration (EIA) reported US inventories fell greater than expected 7.5mbbls last week. See June 24th *Value down but not out*.

#### **Sector View**

US led up yesterday by cyclicals, with industrials (+2.5%) and energy (+2.0%), whilst defensives utilities (-0.4%) and staples (+0.0%) lagged. Russell 2000 soared 3.5%. See July 14 *The key small cap difference*. Apple won US\$15bn EU tax-battle; TSMC, world's largest contract chip maker, saw Q2 profit +81% on demand for faster chips. In worse news, American Airlines sent 25k furlough notices as demand sags, and California Resources, state' no1 driller, filed bankruptcy.

#### What to Watch

Yesterday US June Manufacturing output rose better-than-expected 7.2% mom, as businesses reopened, and auto sector surged. Today, **ECB** to keep policy on hold, with -0.5% deposit rate, pausing to assess depth of contraction. US June retail sales forecast +5% mom after May +18% surge. US weekly new jobless claims forecast at 1.25m vs 1.31m last week. More representative continuing claims f'cast 18.6m vs 19.1m last week.

**Q2** today: Netflix (Q2e EPS US\$1.81, +200% yoy), focus on subscriber outlook. Bank of America (\$0.27, -64%) on loan losses. Johnson & Johnson (\$1.49, -42%) on the vaccine outlook.

### HOT TOPIC

# SIDE-EFFECTS OF PASSIVE GROWTH

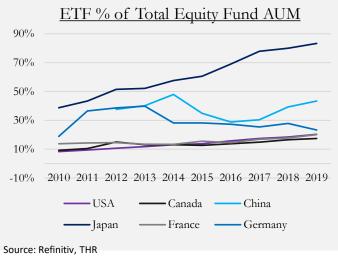
Tesla' recent 50% price surge again focuses attention on passive fund growth and power of index providers. Global passive industry quadrupled in a decade, to US\$6.4trn and 8,000 funds, 20% of market and most of growth in US, and higher in markets like Japan. This has boosted stock trading liquidity and cut trading costs, but increased correlations, the index inclusion price effect, concentrated the overall fund market, and impacted governance.

## Passive popularity growing

Passive investment management, tracking price index returns e.g. an established benchmark, is a large and growing proportion of total fund assets (AUM). They are diversified, liquid, and low-fee (avg. ETF 20bps fee vs active avg. 75bps). Growth accelerated by acceptance of 'efficient market hypothesis' and US large cap active manager underperformance in 13 of last 19 years (see chart), with those consistently outperforming being <u>under 5%</u> of total funds. Small/mid cap active track-record is better. See July 14<sup>th</sup> *The key small cap differences*. The passive boom has also boosted the index providers.

#### ETF size quadrupled in last decade

ETF assets globally, across all asset classes, have risen to est. US\$6.4trn (end 2019), over 4x the US\$1.5trn of a decade earlier, and with the number of products rising from 2,500 to near 8,000 today, across 440 providers.





Source: S&P Global, THR. \*S&P Composite 1500 Index

Japan has led geographic growth with government fund GPIF boosting equity allocations and Bank of Japan making ETF purchases, and now holding c60% of all Japanese equity ETFs. This expansion of 'official' ETF usage is noteworthy given US Fed' recent foray into purchasing bond ETFs.

#### What it means

The implications of passive expansion and index provider concentration is wide-ranging and hotly debated. We highlight five here:

# 1. Greater correlation. Less diversification

Passive managers buy and sell the entire basket of stocks in benchmark indices in response to inflows and outflows. If the passive funds represent a high enough proportion of trading volume, this may induce higher co-movement of prices within indices. The risk is the benefits of holding a diversified portfolio are therefore reduced.

This BIS paper used a sample of 462 stocks joining and leaving the S&P500 between 2000-2017. It found the correlation with the S&P500 rose from 0.45 to 0.52 upon joining the index.

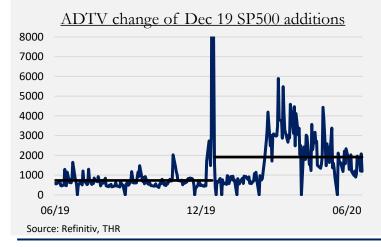
#### 2. Increased liquidity and lower costs

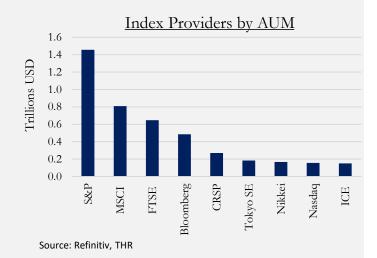
The other effect is increased trading liquidity. We looked at the Dec 2019 S&P 500 constituent changes as a recent example (LYV, ZBRA, STE in; AMG, TRIP, MAC out). We found average daily trading volumes of index joiners jumped an average 162% (see bottom chart). This is in line with the larger sample findings above.

We can also expect a tightening of average stock bid-ask spreads. The chief reason for these effects is the correlated behaviour of passive investors tracking the index, aided by others benchmarking against (though a side-effect of the rise of passive may be a reduction in 'closet' active management indexing). Interestingly we found there was no equivalent trading volume change for firms that left the index, with volume remaining high even after stock exclusion.

# 3. Clear index inclusion price effect

Perhaps more interesting is the price effect on firms entering indices. The increased passive products track relatively few benchmark indices, and these constructed by three major providers, responsible for c70% of benchmarked AUM (see top chart), a recipe for a strong price effect.





This 2011 paper reports that for 'additions to the S&P 500 and Russell 2000, the price impact from announcement to effective day averaged +8.8% and +4.7%, respectively, and -15.1% and -4.6% for deletions.' This also does not account for the speculative positioning prior to inclusion announcement. As seen in the 50% recent increase in Tesla share price as speculation grew on potential S&P 500 inclusion, this can be significant.

# 4. Market concentration increasing

Less positively, Fed researchers have highlighted how the strong growth in passive has accelerated US asset market concentration, with passive industry more concentrated than active, and how this has heightened some financial stability issues. The big three index managers (Vanguard, Blackrock, State Street) could control over a quarter of S&P 500 within next decade on current growth trends, as are receiving 70%+ of all passive inflows.

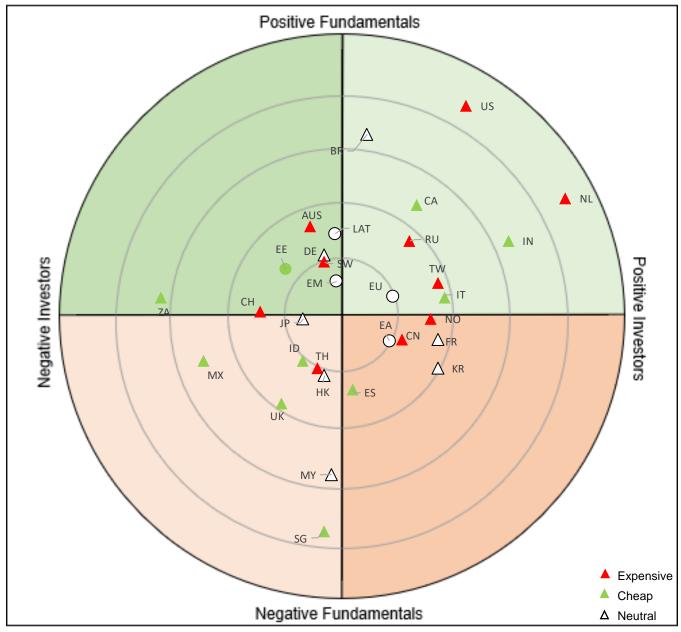
# 5. Impact on corporate governance

Increasing passive AUM may crowd out active research, trading and the monitoring functions that supports market quality. This has received regulator research that specifically argues that the quality of corporate governance may decline as the proportion of shares owned by passive funds increases in the market.

# **COUNTRY 'EYE' & ALLOCATIONS**

#### **Country Allocation Views**

Market	Main Index	THR View	Market	Main Index	THR View
US	S&P 500	Overweight	UK	FTSE 100	Underweight
EM	MSCI EM	Neutral	Canada	S&P/TSX	Overweight
Eurozone	EUROSTOXX	Neutral	Switzerland	SMI	Overweight
Japan	TOPIX	Underweight	Australia	S&P/ASX	Neutral



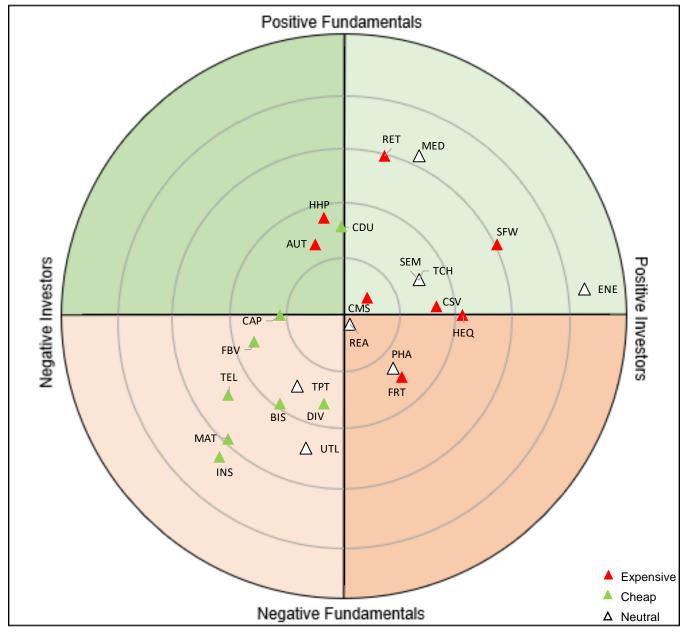
Source: Refinitiv, THR. SEE PAGE 13 FOR FULL METHODOLOGY

AUS=Australia, BR=Brazil, CA=Canada, CN=China, FR=France, DE=Germany, HK=Hong Kong, IN=India, ID=Indonesia, IT=Italy, JP=Japan, KR=Korea, MY=Malaysia, MX=Mexico, NL=Netherlands, NO=Norway, RU=Russia, SG=Singapore, ZA=South Africa, ES=Spain, SE=Sweden, CH=Switzerland, TW=Taiwan, TH=Thailand, UK=United Kingdom, US=United States, EU=Europe, LAT=Latin America, EM=Emerging Markets, EE=Emerging Europe, EA=Emerging Asia.

# US SECTOR 'EYE' & ALLOCATION

#### **US Sector Allocation Views**

Market	Main ETFs	THR View	Market	Main ETFs	THR View
IT	XLK/VGT	Overweight	Staples	XLP/VDC	Overweight
Healthcare	XLV/VHT	Overweight	Energy	XLE/VDE	Neutral
Financials	XLF/VFH	Underweight	Utilties	XLU/VPU	Overweight
Communications	XLC/VOX	Overweight	Real Estate	XLRE/VNQ	Overweight
Discretionary	XLY/VCR	Neutral	Materials	XLB/VAW	Underweight
Industrials	XLI/VIS	Neutral			



Source: Refinitiv, THR. SEE PAGE 13 FOR FULL METHODOLOGY

AUT=Auto & Auto parts, BIS=Banking & Investment, CAP=Capital Goods, CMS=Commercial & Prof Svcs, CDU=Consumer Durables & Apparel, CSV=Consumer Svcs, DIV=Diversified Financials, ENE=Energy, FRT=Food Staples & Retail, FBV=Food, Bev. & Tobacco, HEQ=Healthcare Equipt. & Svcs, HHP=Household & Personal Products, INS=Insurance, MAT=Materials, MED=Media & Entertainment, PHA=Pharma, Bio & Life Svcs, REA=Real Estate, RET=Retailing, SEM=Semiconductors & Equipt, SFW=Software and Svcs, TCH=Technology Hardware & Equipt, TEL=Telecoms TPT=Transport, UTL=Utilities

# 'EYE' ALLOCATION BREAKDOWN

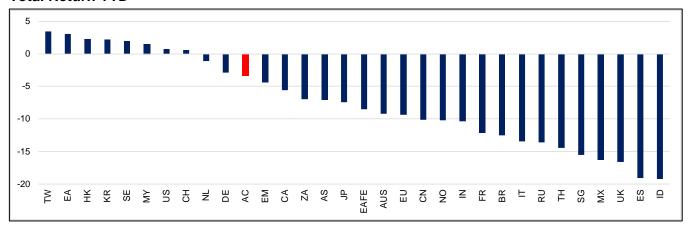
Country/	Rationale	P/E			er. (%)
Region	11. % 100 (c. /0 11.) D	2020e	2021e	2020e	2021e
	<b>United States (Overweight):</b> Remains a global equity 'safer haven' despite currently centre of COVID outbreak. Has relatively closed economy and stock market, trend GDP growth into crisis, and seen unprecedented policy response, with unlimited QE and initial 14%/GDP fiscal stimulus. Valuations fundamentally supported by tech, tax, and UST. Earnings expectations very quickly adjusted. Is in the 'momentum' Eye quadrant, with some of world's	25.6	20.0	-20.1	27.7
*;	strongest relative fundamentals, but also some of the most optimistic investors.  Emerging Markets (Neutral): Economic growth vulnerable even before COVID outbreak.  USD strength and low oil prices have been additional broad headwinds for many. Much of the valuation discount structural and overstated. LatAm and CEEMEA now centre of virus outbreak, after north Asia (60% EM) control. Favor China, EM's largest market, on policy flexibility, resilient GDP/EPS, FIFO on COVID cases, 12x P/E. Underweight rest of EM.	15.9	12.4	-6.7	28.0
****	<b>Eurozone (Neutral):</b> To lead global GDP and EPS decline, whilst most of valuation discount vs US is just sector composition. Recession has triggered a broader fiscal policy response, whilst ECB help extended, and weak EUR been support for Europe's globalised corporates. As COVID cases ease and countries reopen, set to be the key beneficiary of cyclical economic and market upturn. Focus on cheap domestic cyclicals, such as Financials.	20.4	15.4	-28.6	32.6
	Japan (Underweight): Has been moving out of the value-trap 'Eye' quadrant, but has significant fundamental headwinds on growth, trade, policy flexibility, and longer-term structural issues (demographics, debt). Valuation is attractive vs history, but EPS outlook overstated and vulnerable. Domestic stocks underperformed global-exposed peers.	18.0	14.3	8.5	26.3
	<b>UK (Underweight):</b> In value-trap framework quadrant. Exposed to twin-headwinds of above-average COVID impact (with high infections and relatively low fiscal response) and rising Brexit hard-exit risks (into Dec. 31 cliff edge), and market valuations at long-term average. Risk that lags our preferred recovery cyclicals (Canada, EU Financials, US small caps) despite 50%+ cyclical equity index composition and 60% overseas revenue exposure.	18.0	13.6	-36.0	32.8

US Sector	Rationale	P/E	(x)	EPS G	er. (%)
		2020e	2021e	2020e	2021e
	Information Technology (Overweight): Software in attractive top-right 'momentum' quadrant of the Eye. Are quality growth and attractive at this stage of cycle, reflected in defensiveness vs previous corrections. Valuations average but supported by net-cash and high RoE, giving buyback and M&A flexibility. Tech Hardware (Neutral) less well positioned, with weaker fundamentals, but beneficiary of easing growth concerns.	27.9	23.9	-0.1	16.4
	Healthcare (Overweight): Both Healthcare Equipment and Pharma are close to the topright 'momentum' quadrant, liked by the market (with multiple rerating and sell-side conviction), but with good fundamental momentum as quality growth attractive at this stage, with defensive cash flows, less EPS cyclicality and a domestic revenue focus. Seeing Federal support to combat COVID. Similar to Tech, set to come out of crisis more dominant.	18.6	15.7	-0.5	18.0
\$	<b>Financials (Underweight):</b> All three components (Banks, Diversified, Insurance) in the negative bottom left 'value trap' quadrant of the 'Eye'. Out of favour with market, with strong fund outflows and valuation derating, but fundamentals remain under pressure from low US bond yields, flat yield curve, and GDP growth collapse. Capital buffers are strong but Fed buyback and dividend restrictions an additional unique sector constraint vs other cyclicals.	17.5	12.5	-37.2	40.5
(V)	Communications (Overweight): Telecoms (AT&T largest sector weight) in most-attractive top-left quadrant, and Media (Facebook, Alphabet largest) in attractive top-right. Both seeing above average fundamentals, with Media led by EPS revisions, and Telecoms by price momentum. Telecoms has average valuation vs history, has derated, and sell-side sentiment especially poor. Media better liked by the market	25.8	20.9	-14.9	23.9
9 9	Consumer Discretionary (Neutral): Consumer Services and Retail (Amazon largest stock) best placed of Discretionary sectors, both in top-right quadrant. Services defensive to cycle and seeing positive EPS revisions. Autos poorest placed, in bottom-left quadrant. Whilst the least-in-favour, has some of worst fundamentals and more expensive than perceived. Leisure discretionary industries very COVID exposed.	59.0	30.4	-48.5	94.1

Source: Refinitiv, THR

# REGION/COUNTRY PERFORMANCE & VALUATION

#### **Total Return YTD**

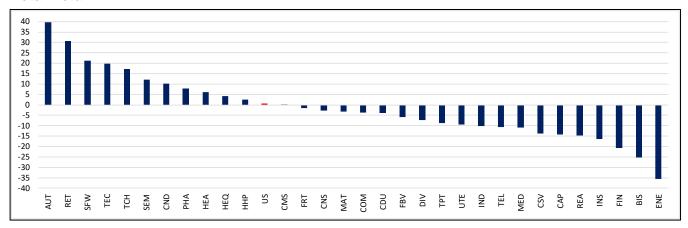


			Price Per	formance	)	-	PE		EPS Growth	
Index	Abbreviation	1D (%)	1W (%)	3M(%)	YTD (%)	2019A	2020E	2021E	2020E	2021E
World	AC	1.3	1.5	15.2	-3.3	17.8	22.0	17.0	-19.1%	29.0%
EAFE	EAFE	1.9	2.8	14.9	-8.5	15.8	20.0	15.4	-21.2%	30.1%
Europe	EU	1.9	2.8	16.8	-9.4	14.8	20.8	15.6	-28.9%	33.0%
Asia	AS	1.3	0.6	12.8	-7.1	17.4	17.4	13.7	0.0%	26.5%
<b>Emerging Global Markets</b>	EM	0.6	-0.3	18.3	-4.3	15.1	16.3	12.6	-7.5%	29.2%
Emerging Asia	EA	0.4	-0.5	18.3	3.1	16.7	16.5	13.3	1.0%	24.6%
Australia	AUS	1.9	0.9	12.0	-9.2	15.9	18.8	19.2	-15.5%	-1.8%
Brazil	BR	1.3	1.8	28.2	-12.5	12.6	26.7	12.3	-52.7%	117.2%
Canada	CA	1.0	2.8	15.6	-5.6	13.6	20.7	15.0	-34.5%	38.4%
China	CN	-1.2	-5.9	6.5	-10.2	15.7	15.4	12.9	1.6%	19.6%
France	FR	2.0	2.5	19.3	-12.2	14.4	21.9	15.4	-34.3%	42.2%
Germany	DE	1.5	2.8	25.2	-2.9	15.8	21.5	14.7	-26.6%	46.8%
Hong Kong	HK	0.4	-5.3	15.2	2.3	14.7	17.7	14.1	-17.0%	25.7%
India	IN	0.0	-1.5	17.8	-10.4	22.1	24.3	17.6	-8.9%	37.6%
Indonesia	ID	-0.1	1.0	20.2	-19.2	13.7	17.6	13.9	-22.5%	26.8%
Italy	IT	1.9	1.6	22.0	-13.5	10.9	20.8	13.7	-47.9%	52.0%
Japan	JP	1.5	1.3	11.3	-7.4	19.4	18.7	14.4	3.8%	29.7%
Korea	KR	0.9	0.9	18.5	2.2	17.3	14.7	10.3	17.3%	43.6%
Malaysia	MY	-0.8	0.1	19.0	1.5	16.8	20.6	16.9	-18.5%	21.6%
Mexico	MX	1.0	-2.3	8.6	-16.3	15.0	18.9	12.8	-20.8%	47.2%
Netherlands	NL	0.4	0.9	22.6	-1.1	20.9	23.0	19.4	-9.0%	18.4%
Norway	NO	2.1	3.7	14.2	-10.2	12.8	21.4	14.4	-40.3%	48.9%
Russia	RU	0.8	-1.4	10.7	-13.6	5.6	10.0	7.1	-44.0%	41.1%
Singapore	SG	0.9	-0.8	3.7	-15.5	11.7	15.3	12.8	-23.5%	19.1%
South Africa	ZA	0.4	0.1	15.5	-7.0	14.9	13.8	10.7	7.7%	29.2%
Spain	ES	1.7	2.2	11.7	-19.1	11.0	17.6	13.1	-37.7%	34.7%
Sweden	SE	1.6	2.8	22.5	2.0	15.8	22.6	17.0	-30.1%	32.9%
Switzerland	СН	1.9	2.6	13.0	0.6	19.4	21.1	18.1	-8.1%	16.1%
Taiwan	TW	0.1	0.1	19.4	3.4	18.2	17.8	15.3	2.8%	15.9%
Thailand	TH	1.1	-1.2	13.0	-14.5	15.2	20.4	16.5	-25.6%	23.9%
United Kingdom	UK	1.8	2.2	12.6	-16.6	11.6	18.2	13.7	-36.1%	32.8%
United States	US	1.1	1.9	18.3	0.7	20.1	25.1	19.7	-20.0%	27.6%

Source: MSCI, Refinitiv, THR

# US SECTOR PERFORMANCE & VALUATION

# **Total Return YTD**

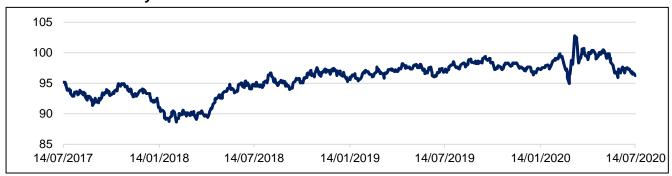


			Price Per	formance	)	PE			EPS Growth	
Index	Abbreviation	1D (%)	1W (%)	3M(%)	YTD (%)	2019A	2020E	2021E	2020E	2021E
United States	US	1.1	1.9	18.3	0.7	20.1	25.1	19.7	-20.0%	27.6%
Communications	СОМ	0.9	1.6	11.4	-3.6	21.6	25.5	20.5	-15.0%	24.0%
Media & Entertainment	MED	2.4	4.8	16.6	-10.9	27.6	34.4	25.1	-19.8%	36.8%
Telecommunication Svcs	TEL	-0.2	0.2	1.3	-10.7	10.6	11.3	10.9	-6.0%	3.7%
<b>Consumer Discretionary</b>	CND	1.2	2.5	27.5	10.2	30.4	59.9	30.3	-49.3%	97.4%
Autos & Components	AUT	3.0	10.2	64.4	39.7	16.5	NA	21.1	-114.2%	650.1%
Consumer Durables & App	CDU	2.8	2.6	34.8	-3.8	23.3	24.8	20.1	-6.1%	23.3%
Consumer Svcs	CSV	3.6	5.0	17.7	-13.7	19.6	356.9	29.8	-94.5%	1095.6%
Retailing	RET	-0.8	-0.1	27.7	30.5	40.1	52.5	34.5	-23.7%	52.1%
Consumer Staples	CNS	0.4	2.6	4.9	-2.8	19.8	20.2	18.7	-2.3%	8.5%
Food & Staples Retailing	FRT	1.0	4.6	5.3	-1.6	20.8	21.3	19.9	-2.6%	7.1%
Food, Bev & Tobacco	FBV	0.3	2.4	3.7	-5.8	17.3	18.3	16.6	-5.2%	10.1%
Household Products	HHP	0.1	1.7	6.9	2.6	25.5	23.5	22.4	8.3%	4.9%
Energy	ENE	2.1	3.4	19.0	-35.5	13.6	NA	33.2	-102.5%	1702.9%
Financials	FIN	2.0	3.6	11.1	-20.7	10.5	16.7	11.9	-37.1%	40.2%
Banks	BIS	2.8	4.4	14.8	-25.2	8.0	17.9	10.4	-55.5%	71.6%
Diversified Financials	DIV	0.5	1.4	23.3	-7.2	13.9	18.8	14.6	-25.9%	28.2%
Insurance	INS	1.4	5.1	7.6	-16.3	10.8	12.3	10.3	-12.5%	19.6%
Health Care	HEA	1.6	2.8	11.8	6.0	18.1	18.2	15.4	-0.5%	18.0%
Health Care Equipment	HEQ	1.9	3.5	12.9	4.3	28.2	33.7	24.6	-16.5%	37.0%
Pharmaceuticals	PHA	1.2	2.0	10.7	7.8	14.9	14.8	12.9	1.0%	14.7%
Industrials	IND	2.6	3.9	19.1	-10.3	18.0	25.4	18.7	-28.9%	35.7%
Capital Goods	CAP	2.8	4.8	18.0	-14.3	15.7	23.1	17.6	-32.1%	31.5%
Commercial & Prof Svcs	CMS	2.6	2.5	23.0	0.0	28.6	32.0	27.5	-10.6%	16.1%
Transportation	TPT	2.8	3.7	21.2	-8.7	24.2	31.5	19.0	-23.4%	65.8%
Information Technology	TEC	0.4	-0.2	26.0	19.8	27.9	27.9	24.0	-0.1%	16.3%
Semiconductors	SEM	0.0	0.7	20.3	12.2	19.4	20.8	17.4	-6.5%	19.1%
Software & Svcs	SFW	0.3	-1.3	25.2	21.2	36.0	34.3	30.0	5.0%	14.2%
Technology Hardware	TCH	0.5	1.8	27.4	17.3	23.5	24.0	20.4	-2.1%	17.4%
Materials	MAT	1.8	5.2	26.9	-3.2	18.3	23.0	18.0	-20.5%	27.9%
Real Estate	REA	1.2	0.5	7.4	-14.8	32.5	45.0	40.4	-27.7%	11.2%
Utilities	UTE	-0.4	1.2	-0.1	-9.4	17.9	17.6	16.6	1.7%	6.0%

Source: MSCI, Refinitiv, THR

# GLOBAL FX, BONDS AND COMMODITIES

# **DXY USD Index - 3 years**



# **CRB Major Commodity Index\* - 3 Years**

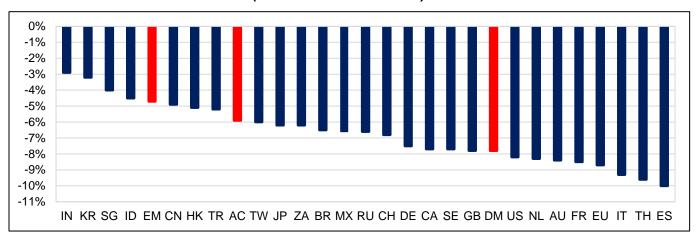


Name	Currency	Close Price	1 Day	1 Week	1 Month	3 Months	1 Year	MTD	QTD	YTD
Commodoties	-									
CRB Commodity Index	USD	2566.66	1.6%	4.1%	3.8%	18.2%	-14.8%	4.4%	4.4%	-16.8%
Gold Spot	USD	1811.31	0.2%	0.1%	5.0%	5.6%	28.1%	1.7%	1.7%	19.4%
Copper Spot	USD	2.87	-1.6%	2.0%	11.8%	24.1%	6.0%	5.8%	5.8%	2.7%
Brent Crude Spot	USD	44.51	1.3%	0.7%	13.7%	182.1%	-33.7%	4.7%	4.7%	-35.5%
CRB Agricultural Index	USD	4912.35	1.9%	5.3%	4.8%	15.9%	-11.8%	5.4%	5.4%	-14.3%
Currencies	-									
DXY USD Index	USD	96.08	-0.2%	-0.4%	-0.6%	-3.4%	-0.9%	-1.3%	-1.3%	-0.3%
EUR/USD	USD	1.14	0.1%	0.7%	0.8%	4.6%	1.4%	1.6%	1.6%	1.8%
USD/JPY	JPY	106.92	-0.3%	-0.3%	-0.4%	-0.5%	-0.9%	-0.9%	-0.9%	-1.6%
GBP/USD	USD	1.26	0.3%	-0.2%	-0.2%	0.5%	0.5%	1.5%	1.5%	-5.1%
USD/CNY	CNY	6.99	-0.2%	-0.2%	-1.4%	-1.1%	1.6%	-1.1%	-1.1%	0.4%
Bond Yields	-									
DE 10Y BUND	EUR	-0.44	0.7%	0.7%	1.1%	-4.3%	50.0%	-3.5%	-3.5%	137.4%
GB 10Y GILT	GBP	0.17	10.7%	-8.8%	-18.6%	-45.0%	-79.3%	-3.5%	-3.5%	-79.9%
JP 10Y JGB	JPY	0.02	9.5%	4.5%	360.0%	35.3%	-120.0%	-14.8%	-14.8%	-204.5%
US 10Y BILL	USD	0.63	2.6%	-3.5%	-10.3%	-1.7%	-69.9%	-3.5%	-3.5%	-67.0%
US 30Y BOND	USD	1.33	2.3%	-4.4%	-8.1%	4.4%	-49.0%	-5.7%	-5.7%	-44.0%
US 10-2 BOND	-	0.48	2.6%	-3.5%	7.7%	22.7%	21.7%	-4.2%	-4.2%	23.1%
Volatility	-									
CBOE VIX Index	USD	27.76	-0.06	-0.01	-0.19	-0.32	1.19	-0.09	-0.09	1.01

Source: Refinitiv, THR

# MACRO INDICATORS: HISTORIC AND FORECASTS

### Forecast Real GDP Growth 'Delta' (2020E % Growth – 2019)



			R	eal GDP (	%)	lı	nflation (%	<b>%)</b>	Current	Account	(% GDP)	Gov Debt (% GDP)	
	Codes	Nominal GDP 2019 US\$trn	2018	2019	2020E	2018	2019	2020E	2018	2019	2020E	2019	2020E
Americas													
US	US	21.4	2.9	2.3	-5.9	2.4	1.8	0.6	-2.4	-2.5	-2.6	106	110
Canada	CA	1.7	1.9	1.5	-6.2	2.2	2.0	0.6	-2.6	-1.9	-3.7	88	83
Brazil	BR	1.9	1.1	1.2	-5.3	3.7	3.8	3.6	-0.8	-1.2	-1.8	92	95
Mexico	MX	1.3	2.0	0.0	-6.6	4.9	3.8	2.7	-1.8	-1.2	-0.3	54	55
Europe													
Eurozone	EU	18.3	2.2	1.2	-7.5	1.9	1.5	2.0	2.0	2.0	1.6	80	78
Germany	DE	3.9	1.5	0.5	-7.0	1.9	1.5	0.3	7.3	7.0	6.6	59	53
UK	GB	2.7	1.4	1.3	-6.5	2.5	1.8	1.2	-3.9	-3.5	-4.4	86	85
France	FR	2.7	1.7	1.3	-7.2	2.1	1.2	0.3	-0.6	-0.5	10.4	99	99
Italy	IT	2.0	0.9	0.2	-9.1	1.2	0.7	0.2	2.5	2.9	3.2	133	134
Spain	ES	1.4	2.6	2.0	-8.0	1.7	0.7	-0.3	0.9	0.9	2.2	96	94
Netherlands	NL	0.9	2.6	1.8	-6.5	1.6	2.5	0.5	10.9	9.8	9.0	49	46
Switzerland	CH	0.7	2.8	8.0	-6.0	0.9	0.6	-0.4	10.2	9.6	7.2	39	36
Sweden	SE	0.5	2.3	0.9	-6.8	2.0	1.7	0.5	1.7	2.9	2.2	37	34
Russia	RU	1.6	2.3	1.1	-5.5	2.9	4.7	3.1	6.8	5.7	0.7	17	18
Turkey	TR	0.7	2.8	0.2	-5.0	16.3	15.7	12.0	-3.5	-0.6	0.4	30	32
Asia													
China	CN	14.1	6.6	6.1	1.2	2.1	2.3	3.0	0.4	1.0	0.5	56	65
Hong Kong	HK	0.4	3.0	0.3	-4.8	2.4	3.0	2.0	4.3	5.5	6.0	0	0
Japan	JP	5.2	0.8	1.0	-5.2	1.0	1.0	0.2	3.5	3.3	1.7	238	238
India	IN	2.9	6.8	4.8	1.9	3.4	3.4	3.3	-2.1	-2.0	-0.6	69	68
Korea	KR	1.6	2.7	2.0	-1.2	1.5	0.5	0.3	4.4	3.2	4.9	40	46
Australia	AU	1.4	2.7	1.7	-6.7	2.0	1.6	1.4	-2.1	-0.3	-0.6	42	41
Indonesia	ID	1.1	5.2	5.0	0.5	3.2	3.2	2.9	-3.0	-2.9	-3.2	30	30
Taiwan	TW	0.6	2.6	2.0	-4.0	1.5	0.8	0.5	12.2	11.4	8.2	34	31
Thailand	TH	0.5	4.1	2.9	-6.7	1.1	0.9	-1.1	6.4	6.0	5.2	42	44
Singapore	SG	0.4	3.1	0.5	-3.5	0.4	0.7	-0.2	17.9	16.5	14.8	114	115
Other													
South Africa	ZA	0.4	0.8	0.4	-5.8	4.6	4.4	2.4	-3.5	-3.1	0.2	60	68
World													
Developed Markets	DM	51.7	2.3	1.7	-6.1	2.0	1.5	0.5	0.7	0.6	0.1	103	104
<b>Emerging Markets</b>	EM	34.9	4.5	3.7	-1.0	4.8	4.7	4.6	0.0	0.0	-0.9	53	58
World	AC	86.6	3.6	2.9	-3.0	3.6	3.4	3.0					

Source: IMF, THR

# **GLOBAL MACRO & FORECAST TABLES**

Provides historic data, and consensus forecasts, for key macro-economic indicators in the major economies of US, Germany, and China. Forecasts highlighted in green and red indicate whether the latest change in the consensus forecast was an increase or decrease.

United States		Forecasts										
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020E	2021E
Production												
Real GDP, Growth	2.6	1.6	2.2	1.8	2.5	2.9	1.6	2.4	2.9	2.3	-5.7	4.0
Industrial Production, Growth	5.5	3.1	3.0	2.0	3.1	-1.0	-1.9	2.3	3.9	0.8	-9.1	2.6
Labour Markets and Income												
Unemployment Rate	9.6	8.9	8.1	7.4	6.2	5.3	4.9	4.3	3.9	3.7	10.5	8.0
Average Earnings, Growth	1.9	2.0	1.9	2.1	2.1	2.2	2.6	2.6	3.0	3.3	2.8	2.4
Prices												
CPI	1.6	3.2	2.1	1.5	1.6	0.1	1.3	2.1	2.4	1.8	1.6	1.6
PCE, excluding energy	1.4	1.6	1.9	1.5	1.6	1.2	1.6	1.6	1.9	1.6	1.3	1.4
Government												
Budget Balance, Growth	-0.2	-0.2	0.0	-0.9	-0.2	0.0	0.2	0.1	0.2	0.1	0.6	-0.4
Current Account, % of GDP	-2.9	-2.9	-2.6	-2.1	-2.1	-2.2	-2.3	-2.3	-2.4	-2.5	-2.2	-2.4

Germany	Historic											Forecasts	
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020E	2021E	
Production													
Real GDP, Growth	4.2	3.9	0.4	0.4	2.2	1.7	2.2	2.5	1.5	0.6	-5.3	4.4	
Industrial Production, Growth	11.6	8.8	-0.6	0.3	1.9	0.4	1.4	3.6	1.2	-4.5	-7.0	5.9	
Labour Markets and Income													
Unemployment Rate	7.6	7.1	6.8	6.9	6.7	6.4	6.1	5.7	5.2	5.0	5.4	5.2	
Prices													
CPI	1.1	2.1	2.0	1.5	1.0	0.2	0.4	1.7	2.0	1.4	0.8	1.4	
Government													
Current Account, % of GDP	5.7	6.2	7.1	6.6	7.2	8.6	8.5	8.1	7.3	7.0	6.5	6.4	

	-	Historic										
China	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020E	2021E
Production												
Real GDP, Growth	9.9	8.8	8.1	7.7	7.3	6.9	6.9	6.8	6.5	6.0	1.8	8.2
Prices												
CPI	3.5	5.5	2.6	2.7	2.0	1.4	2.0	1.5	2.1	2.8	3.3	2.3
Government												
Current Account, % of GDP	3.9	1.8	2.5	1.5	2.2	2.7	1.8	1.6	0.4	1.0	0.5	0.8

Source: Refinitiv, THR

## TOWER HUDSON 'EYE': HOW IT WORKS

The 'eye' methodology helps identify relative buy and sell signals for countries, regions and US sectors, by comparing market sentiment vs fundamentals, with a valuation overlay. The more out-of-favor, with better relative fundamentals the better.

We compare: 1) **sentiment:** to understand whether markets are optimistic or pessimistic, and 2) **fundamentals:** focusing on earnings and business cycle fundamentals and price momentum. The output is also color-coded with a valuation overlay. This combines to give a relative allocation view

#### How to read the quadrants

**Top left – Pessimistic sentiment/Positive fundamentals:** The best place to be. Market expectations are low, but fundamentals are relatively good. As sentiment catches up to the better fundamentals, assets may outperform.

Top right – Optimistic sentiment/Positive fundamentals: The 2<sup>nd</sup> best place to be. The fundamentals are good, but so is market sentiment. This is a momentum quadrant that may deliver outperformance, but investors must be sensitive to relative fundamentals easing.

**Bottom right – Optimistic sentiment/Negative fundamentals:** Worst place to be. Fundamentals are poor but sentiment still positive. As sentiment catches up, assets may underperform.

Bottom left – Negative sentiment/Negative fundamentals: The second worst place to be. Can be a 'value trap'. Fundamentals are weak but sentiment is equally subdued. Investors need to be sensitive to any improvement in relative fundamentals, that can lead to a move up and rerating.

Sentiment	Indicator				
Buy-side	Net ETF and Mutual Fund Flows vs average				
Sell-side	Sell-side recommendation consensus score (RCS)				
Re-rating/De-rating	Trailling P/E ratio vs average				
Fundamentals					
Earnings revisions	Rolling earnings revisions ratio				
Price momentum	Change in trailing P/E ratio				
Business cycle	Correlation to this business cycle stage (rising, neutral, falling)				
Overlay					
Valuation	Average of P/E, P/BV, and P/CF vs history				

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