

# Return Decomposition Monthly March 2021

Strategy | Economics and Strategy

Data as of March 31, 2021

**1Q21:** Growth underperformed Value by -10.3% (0.9% vs. 11.3%) on slightly weaker earnings and stock multiples.

**Past 1 Year:** Growth outperformed Value by 6.7% (62.7% vs. 56.1%) on more favorable multiples, but lagging earnings.

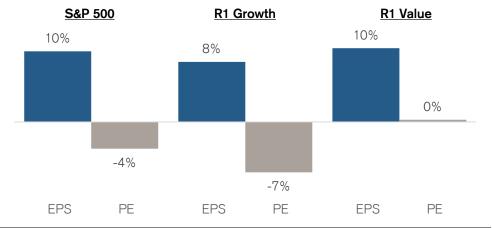
**Return Decomposition Summary** 

1021	EPS*	_ + .	P/E	= Price Return +	Dividends	= Total Return
S&P 500	9.9		-3.8	5.8	0.4	6.2
Russell 1000 Growth	8.4		-7.1	0.7	0.2	0.9
Russell 1000 Value	10.3		0.3	10.7	0.5	11.3
1-Year (3/31/20 - 3/31/21)	EPS*	_ +	P/E	= Price Return +	Dividends	= Total Return
S&P 500	6.8		43.9	53.7	1.7	56.4
Russell 1000 Growth	12.1		43.9	61.3	0.9	62.7
Russell 1000 Value	16.2		31.1	52.3	2.5	56.1

Note: \*Change in forward estimates

Source: Standard & Poor's, Russell, FactSet, Thomson Financial, Credit Suisse

### 1Q21 EPS and PE Contribution to Price Return



Source: Standard & Poor's, Russell, FactSet, Thomson Financial, Credit Suisse

#### **Research Analysts**

#### Manish Bangard, CFA

212 325 6632 manish.bangard@credit-suisse.com

#### Jonathan Golub, CFA

212 325 6239 jonathan.golub@credit-suisse.com

### **Patrick Palfrey**

212 325 7970 patrick.palfrey@credit-suisse.com

#### Mark Coates, CFA

212 325 4315 mark.coates@credit-suisse.com

#### Chandni Chellappa

212 325 2759

chandni.chellappa@credit-suisse.com

### Katherine Zhou

212 325 2722

katie.zhou@credit-suisse.com

DISCLOSURE APPENDIX AT THE BACK OF THIS REPORT CONTAINS IMPORTANT DISCLOSURES, ANALYST CERTIFICATIONS, LEGAL ENTITY DISCLOSURE AND THE STATUS OF NON-US ANALYSTS. US Disclosure: Credit Suisse does and seeks to do business with companies covered in its research reports. As a result, investors should be aware that the Firm may have a conflict of interest that could affect the objectivity of this report. Investors should consider this report as only a single factor in making their investment decision.



S&P 500 Return Decomposition - 1Q21

	Current							Price		Total
	Weight	Revenue*	Margin*	Earnings*	Buybacks	EPS*	P/E	Return	Dividends	Return
S&P 500	100.0	4.0	5.6	9.8	0.1	9.9	-3.8	5.8	0.4	6.2
Technology	26.6	5.5	3.2	8.9	0.6	9.6	-7.2	1.7	0.2	2.0
Health Care	13.0	2.9	1.6	4.6	-0.4	4.2	-1.4	2.7	0.4	3.2
Discretionary	12.4	4.7	4.3	9.2	0.9	10.2	-6.6	2.9	0.2	3.1
Financials	11.3	2.6	12.4	15.3	0.1	15.4	-0.1	15.4	0.6	16.0
Comm Svcs	10.9	3.8	4.7	8.7	-0.1	8.7	-0.8	7.8	0.2	8.1
Industrials	8.9	3.0	2.2	5.3	0.1	5.4	5.3	11.0	0.4	11.4
Staples	6.1	1.3	1.3	2.6	0.2	2.8	-2.3	0.5	0.7	1.1
Energy	2.8	12.4	81.5	104.1	-1.0	102.0	-36.0	29.3	1.2	30.9
Materials	2.7	6.6	9.0	16.2	0.0	16.2	-6.6	8.6	0.5	9.1
Utilities	2.7	-0.6	2.4	1.9	-0.4	1.4	0.5	1.9	0.8	2.8
REITs	2.5	2.6	0.7	3.3	-0.5	2.8	5.5	8.4	0.6	9.0

Note: \*Change in forward estimates. Return reflects period in benchmark if not included for full period.

Source: Standard and Poor's, FactSet, Thomson Financial, Credit Suisse

S&P 500 Return Decomposition - 1-Year

	Current							Price		Total
	Weight	Revenue*	Margin*	Earnings*	Buybacks	EPS*	P/E	Return	Dividends	Return
S&P 500	100.0	4.6	2.6	7.3	-0.5	6.8	43.9	53.7	1.7	56.4
Technology	26.6	10.7	4.5	15.6	2.4	18.4	39.2	64.8	1.1	66.6
Health Care	13.0	9.2	5.0	14.6	-1.6	12.8	16.8	31.7	1.8	34.0
Discretionary	12.4	11.7	-4.1	7.2	-1.4	5.7	59.9	69.1	0.7	70.3
Financials	11.2	0.7	-1.0	-0.3	0.5	0.2	63.1	63.5	2.4	67.5
Comm Svcs	11.0	6.7	-1.1	5.5	-0.6	4.8	51.8	59.2	1.1	60.9
Industrials	8.9	-3.9	-6.1	-9.8	-4.8	-14.2	94.2	66.7	1.8	69.6
Staples	6.1	3.5	1.6	5.1	0.6	5.8	18.0	24.8	2.8	28.4
Energy	2.8	-7.8	22.4	12.9	-3.6	8.8	52.1	65.6	5.8	75.2
Materials	2.7	6.1	19.7	27.0	0.3	27.3	37.2	74.7	2.1	78.3
Utilities	2.7	-1.6	6.7	4.9	-1.7	3.1	11.9	15.4	3.5	19.4
REITs	2.5	-0.9	-2.3	-3.1	-2.0	-5.1	35.1	28.2	3.0	32.0

Note: \*Change in forward estimates. Return reflects period in benchmark if not included for full period.

Source: Standard and Poor's, FactSet, Thomson Financial, Credit Suisse



S&P 500 20 Largest Contributors - 1Q21

%	Ticker	Name	Sector	Beg. Wt.	Price Return	Contribution
1	GOOGL	Alphabet	Comm Svcs	3.3	17.7	0.59
2	MSFT	Microsoft	Technology	5.3	6.0	0.33
3	JPM	JPMorgan Chase	Financials	1.2	19.8	0.24
4	BAC	Bank of America	Financials	0.7	27.6	0.20
5	XOM	Exxon Mobil	Energy	0.6	35.4	0.20
6	INTC	Intel	Technology	0.6	28.5	0.18
7	FB	Facebook	Comm Svcs	2.1	7.8	0.16
8	BRK.B	Berkshire Hathaway	Financials	1.4	10.2	0.14
9	AMAT	Applied Materials	Technology	0.2	54.8	0.14
10	HD	Home Depot	Discretionary	0.9	14.9	0.13
11	CVX	Chevron	Energy	0.5	24.1	0.12
12	WFC	Wells Fargo	Financials	0.4	29.5	0.11
13	DE	Deere & Co	Industrials	0.3	39.1	0.10
14	CSCO	Cisco Systems	Technology	0.6	15.6	0.09
15	CAT	Caterpillar	Industrials	0.3	27.4	0.08
16	TXN	Texas Instruments	Technology	0.5	15.1	0.07
17	С	Citigroup	Financials	0.4	18.0	0.07
18	GS	Goldman Sachs Group	Financials	0.3	24.0	0.07
19	BA	Boeing	Industrials	0.4	19.0	0.07
20	LOW	Lowe's	Discretionary	0.4	18.5	0.07

Note: Return reflects period in benchmark if not included for full period

Source: Standard & Poor's, FactSet, Credit Suisse

S&P 500 20 Largest Detractors - 1Q21

%	Ticker	Name	Sector	Beg. Wt.	Price Return	Contribution
1	AAPL	Apple	Technology	6.7	-7.9	-0.50
2	AMZN	Amazon com	Discretionary	4.4	-5.0	-0.20
3	QCOM	Qualcomm	Technology	0.5	-13.0	-0.06
4	TSLA	Tesla	Discretionary	1.7	-5.3	-0.06
5	AMD	AMD	Technology	0.3	-14.4	-0.05
6	MRK	Merck & Co.	Health Care	0.7	-5.8	-0.04
7	ADBE	Adobe	Technology	0.8	-4.9	-0.04
8	WMT	Walmart	Staples	0.6	-5.8	-0.03
9	V	Visa	Technology	1.2	-3.2	-0.03
10	COST	Costco Wholesale	Staples	0.5	-6.4	-0.03
11	NKE	NIKE	Discretionary	0.6	-6.1	-0.03
12	PG	Procter & Gamble	Staples	1.1	-2.7	-0.03
13	PEP	PepsiCo	Staples	0.6	-4.6	-0.03
14	ISRG	Intuitive Surgical	Health Care	0.3	-9.7	-0.03
15	NOW	ServiceNow	Technology	0.3	-9.1	-0.03
16	CRM	salesforce com	Technology	0.6	-4.8	-0.03
17	KO	Coca-Cola	Staples	0.7	-3.9	-0.03
18	NFLX	Netflix	Comm Svcs	0.8	-3.5	-0.02
19	CHTR	Charter Communications	Comm Svcs	0.3	-6.7	-0.02
20	ADSK	Autodesk	Technology	0.2	-9.2	-0.02

Note: Return reflects period in benchmark if not included for full period



S&P 500 Top 20 Performers - 1Q21

%	Ticker	Name	Sector	Price Return
1	LB	L Brands	Discretionary	66.3
2	MRO	Marathon Oil	Energy	60.1
3	AMAT	Applied Materials	Technology	54.8
4	OXY	Occidental Petroleum	Energy	53.8
5	FANG	Diamondback Energy	Energy	51.8
6	AAL	American Airlines Group	Industrials	51.6
7	NUE	Nucor	Materials	50.9
8	GPS	Gap	Discretionary	47.5
9	EOG	EOG Resources	Energy	45.4
10	IVZ	Invesco	Financials	44.7
11	DISCA	Discovery	Comm Svcs	44.4
12	URI	United Rentals	Industrials	42.0
13	NWSA	News	Comm Svcs	41.5
14	KMX	CarMax	Discretionary	40.4
15	PXD	Pioneer Natural Resources	Energy	39.5
16	F	Ford Motor	Discretionary	39.4
17	DE	Deere & Co	Industrials	39.1
18	PBCT	People's United Financial	Financials	38.4
19	HFC	HollyFrontier	Energy	38.4
20	DVN	Devon Energy	Energy	38.2

Note: Return reflects period in benchmark if not included for full period

Source: Standard & Poor's, FactSet, Credit Suisse

S&P 500 Bottom 20 Performers - 1Q21

%	Ticker	Name	Sector	Price Return
1	VTRS	Viatris	Health Care	-25.5
2	ENPH	Enphase Energy	Technology	-20.3
3	PAYC	Paycom Software	Technology	-18.2
4	TTWO	Take-Two Interactive	Comm Svcs	-15.0
5	VRSK	Verisk Analytics	Industrials	-14.9
6	CPRT	Copart	Industrials	-14.6
7	AMD	AMD	Technology	-14.4
8	BF.B	Brown-Forman	Staples	-13.2
9	QCOM	Qualcomm	Technology	-13.0
10	MKTX	MarketAxess	Financials	-12.7
11	XLNX	Xilinx	Technology	-12.6
12	ROL	Rollins	Industrials	-11.9
13	PENN	Penn National Gaming	Discretionary	-10.7
14	PKI	PerkinElmer	Health Care	-10.6
15	ISRG	Intuitive Surgical	Health Care	-9.7
16	PRGO	Perrigo	Health Care	-9.5
17	ADSK	Autodesk	Technology	-9.2
18	NOW	ServiceNow	Technology	-9.1
19	VRTX	Vertex Pharmaceuticals	Health Care	-9.1
20	BLL	Ball Corp	Materials	-9.1

Note: Return reflects period in benchmark if not included for full period



S&P 500 20 Largest Contributors - 1-Year

%	Ticker	Name	Sector	Beg. Wt.	Price Return	Contribution
1	AAPL	Apple	Technology	5.0	92.1	3.99
2	MSFT	Microsoft	Technology	5.6	49.5	2.43
3	AMZN	Amazon com	Discretionary	3.8	58.7	2.10
4	GOOGL	Alphabet	Comm Svcs	3.2	77.5	2.04
5	FB	Facebook	Comm Svcs	1.9	76.6	1.23
6	PYPL	PayPal Hldgs	Technology	0.5	153.6	0.68
7	NVDA	NVIDIA Corp	Technology	0.8	102.6	0.68
8	JPM	JPMorgan Chase	Financials	1.3	69.1	0.68
9	DIS	Walt Disney	Comm Svcs	0.8	91.0	0.59
10	HD	Home Depot	Discretionary	1.0	63.5	0.51
11	BRK.B	Berkshire Hathaway	Financials	1.7	39.7	0.51
12	BAC	Bank of America	Financials	0.8	82.2	0.49
13	UNH	UnitedHealth Group	Health Care	1.1	49.2	0.46
14	MA	Mastercard	Technology	1.0	47.4	0.43
15	V	Visa	Technology	1.3	31.4	0.38
16	JNJ	Johnson & Johnson	Health Care	1.6	25.3	0.35
17	CMCSA	Comcast	Comm Svcs	0.7	57.4	0.35
18	AVGO	Broadcom	Technology	0.4	95.6	0.35
19	ADBE	Adobe	Technology	0.7	49.4	0.32
20	TXN	Texas Instruments	Technology	0.4	89.1	0.31

Note: Return reflects period in benchmark if not included for full period

Source: Standard & Poor's, FactSet, Credit Suisse

S&P 500 20 Largest Detractors - 1-Year

%	Ticker	Name	Sector	Beg. Wt.	Price Return	Contribution
1	GILD	Gilead Sciences	Health Care	0.4	-13.6	-0.04
2	TSLA	Tesla	Discretionary	1.6	-3.9	-0.03
3	BIIB	Biogen	Health Care	0.3	-11.6	-0.03
4	DXCM	DexCom	Health Care	0.2	-14.7	-0.02
5	RTN	Raytheon Co	Industrials	0.2	-10.8	-0.02
6	ENPH	Enphase Energy	Technology	0.1	-20.3	-0.01
7	FE	FirstEnergy Corp	Utilities	0.1	-13.4	-0.01
8	PENN	Penn National Gaming	Discretionary	0.1	-10.7	-0.01
9	VTRS	Viatris	Health Care	0.0	-6.3	0.00
10	MPWR	Monolithic Power Systems	Technology	0.0	-8.2	0.00
11	VRTX	Vertex Pharmaceuticals	Health Care	0.3	-9.7	0.00
12	REGN	Regeneron Pharmaceuticals	Health Care	0.2	-3.1	0.00
13	ED	Consolidated Edison	Utilities	0.1	-4.1	0.00
14	PRGO	Perrigo	Health Care	0.0	-15.8	0.00
15	COTY	Coty	Staples	0.0	-40.9	0.00
16	AIRC	Apartment Income	REITs	0.0	-9.2	0.00
17	APA	Apache	Energy	0.0	-8.3	0.00
18	CZR	Caesars Entertainment	Discretionary	0.1	-2.1	0.00
19	NI	NiSource	Utilities	0.0	-3.4	0.00
20	NXPI	NXP Semiconductors	Technology	0.2	-0.3	0.00

Note: Return reflects period in benchmark if not included for full period



S&P 500 Top 20 Performers - 1-Year

%	Ticker	Name	Sector	Price Return
1	LB	L Brands	Discretionary	435.1
2	FCX	Freeport-McMoRan	Materials	387.9
3	GPS	Gap	Discretionary	323.0
4	SIVB	SVB Financial Group	Financials	226.8
5	MRO	Marathon Oil	Energy	224.6
6	MGM	MGM Resorts	Discretionary	221.9
7	VIAC	ViacomCBS	Comm Svcs	221.9
8	URI	United Rentals	Industrials	220.0
9	TPR	Tapestry	Discretionary	218.2
10	CARR	Carrier Global	Industrials	217.9
11	DVN	Devon Energy	Energy	216.2
12	HAL	Halliburton	Energy	213.3
13	ALGN	Align Technology	Health Care	211.3
14	EXPE	Expedia Group	Discretionary	205.9
15	MOS	Mosaic	Materials	192.1
16	AMAT	Applied Materials	Technology	191.6
17	NWSA	News	Comm Svcs	183.3
18	PVH	PVH	Discretionary	180.8
19	FANG	Diamondback Energy	Energy	180.5
20	APTV	Aptiv	Discretionary	180.1

Note: Return reflects period in benchmark if not included for full period

Source: Standard & Poor's, FactSet, Credit Suisse

S&P 500 Bottom 20 Performers – 1-Year

%	Ticker	Name	Sector	Price Return
1	COTY	Coty	Staples	-40.9
2	ENPH	Enphase Energy	Technology	-20.3
3	PRGO	Perrigo	Health Care	-15.8
4	DXCM	DexCom	Health Care	-14.7
5	GILD	Gilead Sciences	Health Care	-13.6
6	FE	FirstEnergy Corp	Utilities	-13.4
7	BIIB	Biogen	Health Care	-11.6
8	RTN	Raytheon Co	Industrials	-10.8
9	PENN	Penn National Gaming	Discretionary	-10.7
10	VRTX	Vertex Pharmaceuticals	Health Care	-9.7
11	AIRC	Apartment Income	REITs	-9.2
12	APA	Apache	Energy	-8.3
13	MPWR	Monolithic Power Systems	Technology	-8.2
14	VTRS	Viatris	Health Care	-6.3
15	VNT	Vontier	Technology	-4.1
16	ED	Consolidated Edison	Utilities	-4.1
17	TSLA	Tesla	Discretionary	-3.9
18	AIV	Apartment Inv & Mgmt	REITs	-3.5
19	NI	NiSource	Utilities	-3.4
20	REGN	Regeneron Pharmaceuticals	Health Care	-3.1

Note: Return reflects period in benchmark if not included for full period



Russell 1000 Growth Return Decomposition - 1Q21

	Current							Price		Total
	Weight	Revenue*	Margin*	Earnings*	Buybacks	EPS*	P/E	Return	Dividends	Return
Russell 1000 Growth	100.0	5.0	6.0	11.3	-2.6	8.4	-7.1	0.7	0.2	0.9
Technology	44.2	6.4	9.3	16.3	-5.4	10.0	-10.2	-1.2	0.2	-1.1
Discretionary	16.5	7.0	2.5	9.7	-0.7	8.9	-9.5	-1.5	0.1	-1.4
Health Care	13.7	3.1	3.4	6.6	-1.0	5.5	-4.3	1.0	0.3	1.4
Comm Svcs	11.9	6.5	7.2	14.1	0.1	14.3	-5.7	7.7	0.0	7.7
Industrials	4.7	1.6	3.0	4.7	0.3	5.0	-1.8	3.1	0.4	3.5
Staples	4.5	3.3	0.0	3.3	-0.3	2.9	-4.2	-1.4	0.6	-0.8
Financials	1.9	3.4	2.5	6.0	0.0	6.0	-3.7	2.0	0.5	2.6
REITs	1.7	3.1	-0.8	2.3	-0.3	1.9	4.3	6.3	0.4	6.7
Materials	0.8	4.4	0.5	5.0	0.0	5.0	-4.3	0.4	0.3	0.7
Energy	0.1	11.1	22.6	36.2	-0.9	35.0	-13.9	16.3	0.0	16.3
Utilities	0.0	-8.1	32.6	21.8	0.9	23.0	-24.8	-7.5	0.8	-6.8

Note: \*Change in forward estimates. Return reflects period in benchmark if not included for full period.

Source: Russell, FactSet, Thomson Financial, Credit Suisse

Russell 1000 Growth Return Decomposition - 1-Year

	Current							Price		Total
	Weight	Revenue*	Margin*	Earnings*	Buybacks	EPS*	P/E	Return	Dividends	Return
Russell 1000 Growth	100.0	15.3	-1.8	13.3	-1.1	12.1	43.9	61.3	0.9	62.7
Technology	44.2	6.1	8.3	14.9	-0.4	14.5	46.5	67.7	0.8	69.0
Discretionary	16.5	12.6	3.0	15.9	-1.4	14.3	60.0	82.9	0.4	83.6
Health Care	13.7	50.0	-19.4	20.9	-2.7	17.7	15.7	36.2	1.4	38.1
Comm Svcs	11.9	7.7	10.5	19.0	0.2	19.2	41.1	68.2	0.0	68.2
Industrials	4.7	-20.7	-5.6	-25.2	0.3	-25.0	95.2	46.4	1.7	48.9
Staples	4.5	4.4	16.9	22.0	-1.7	19.9	6.6	27.9	2.9	31.6
Financials	1.9	-6.5	9.2	2.1	-0.2	1.9	35.1	37.6	1.4	39.6
REITs	1.7	-4.3	0.7	-3.7	-1.6	-5.2	22.4	16.0	2.5	19.0
Materials	0.8	-14.1	15.8	-0.5	-0.2	-0.7	50.3	49.2	1.3	51.1
Energy	0.1	97.1	32.7	161.5	-7.7	141.3	-25.7	79.3	0.9	81.0

 $Note: {}^{\star}Change \ in \ forward \ estimates.} \ Return \ reflects \ period \ in \ benchmark \ if \ not \ included \ for \ full \ period.$ 

Source: Russell, FactSet, Thomson Financial, Credit Suisse



Russell 1000 Growth Largest Contributors - 1Q21

%	Ticker	Name	Sector	Beg. Wt.	Price Return	Contribution
1	GOOGL	Alphabet	Comm Svcs	4.4	17.7	0.79
2	MSFT	Microsoft	Technology	9.1	6.0	0.59
3	FB	Facebook	Comm Svcs	3.6	7.8	0.31
4	AMAT	Applied Materials	Technology	0.4	54.8	0.24
5	LOW	Lowe's	Discretionary	0.7	18.5	0.13
6	HD	Home Depot	Discretionary	0.8	14.9	0.12
7	LRCX	Lam Research	Technology	0.4	26.0	0.10
8	UNH	UnitedHealth Group	Health Care	1.5	6.1	0.10
9	LLY	Eli Lilly & Co	Health Care	0.8	10.6	0.08
10	TXN	Texas Instruments	Technology	0.4	15.1	0.07
11	PYPL	PayPal Hldgs	Technology	1.5	3.7	0.06
12	AMGN	Amgen	Health Care	0.7	8.2	0.06
13	KLAC	KLA	Technology	0.2	27.6	0.06
14	AVGO	Broadcom	Technology	0.9	5.9	0.06
15	ACN	Accenture	Technology	0.9	5.8	0.06
16	ORCL	Oracle	Technology	0.6	8.5	0.05
17	NVDA	NVIDIA Corp	Technology	1.7	2.2	0.05
18	MO	Altria Group	Staples	0.2	24.8	0.05
19	MRNA	Moderna	Health Care	0.2	25.3	0.04
20	SPG	Simon Property Group	REITs	0.1	33.4	0.04

Note: Return reflects period in benchmark if not included for full period

Source: Russell, FactSet, Credit Suisse

Russell 1000 Growth Largest Detractors - 1Q21

%	Ticker	Name	Sector	Beg. Wt.	Price Return	Contribution
1	AAPL	Apple	Technology	11.6	-7.9	-0.86
2	AMZN	Amazon com	Discretionary	7.5	-5.0	-0.33
3	QCOM	Qualcomm	Technology	0.9	-13.0	-0.11
4	TSLA	Tesla	Discretionary	2.9	-5.3	-0.09
5	AMD	AMD	Technology	0.6	-14.4	-0.08
6	V	Visa	Technology	2.0	-3.2	-0.06
7	ADBE	Adobe	Technology	1.3	-4.9	-0.06
8	NKE	NIKE	Discretionary	0.9	-6.1	-0.05
9	MRK	Merck & Co.	Health Care	1.0	-5.8	-0.05
10	COST	Costco Wholesale	Staples	0.8	-6.4	-0.05
11	NOW	ServiceNow	Technology	0.6	-9.1	-0.05
12	ISRG	Intuitive Surgical	Health Care	0.5	-9.7	-0.05
13	CRM	salesforce com	Technology	1.0	-4.8	-0.04
14	SRPT	Sarepta Therapeutics	Health Care	0.1	-56.3	-0.04
15	NFLX	Netflix	Comm Svcs	1.3	-3.5	-0.04
16	PEP	PepsiCo	Staples	0.8	-4.6	-0.03
17	RNG	RingCentral	Technology	0.2	-21.4	-0.03
18	SPOT	Spotify Technology	Comm Svcs	0.2	-14.8	-0.03
19	TTD	Trade Desk	Technology	0.2	-18.6	-0.03
20	COUP	Coupa Software	Technology	0.1	-24.9	-0.03

Note: Return reflects period in benchmark if not included for full period. REGN weight increased in the benchmark post reconstitution and its performance fell -21% since, leading to a negative contribution.



Russell 1000 Growth Top 20 Performers - 1Q21

		P 20 1 GHOIMEIS TQ21	_	
%	Ticker	Name Name	Sector	Price Return
1	WSM	Williams-Sonoma	Discretionary	76.0
2	TDC	Teradata	Technology	71.5
3	COHR	Coherent	Technology	68.6
4	AMAT	Applied Materials	Technology	54.8
5	PEN	Penumbra	Health Care	54.6
6	SLM	SLM	Financials	45.0
7	GNRC	Generac	Industrials	44.0
8	KMX	CarMax	Discretionary	40.4
9	PII	Polaris	Discretionary	40.1
10	W	Wayfair	Discretionary	39.4
11	HRB	H&R Block	Discretionary	37.5
12	LPLA	LPL Financial	Financials	36.4
13	MCFE	McAfee	Technology	36.2
14	TPX	Tempur Sealy Intl	Discretionary	35.4
15	SPG	Simon Property Group	REITs	33.4
16	SFM	Sprouts Farmers Markets	Staples	32.4
17	EXPE	Expedia Group	Discretionary	30.0
18	SPCE	Virgin Galactic Holdings	Industrials	29.1
19	NXST	Nexstar Media Group	Comm Svcs	28.6
20	TXG	10X Genomics	Health Care	27.8

Note: Return reflects period in benchmark if not included for full period

Source: Russell, FactSet, Credit Suisse

Russell 1000 Growth Bottom Performers - 1Q21

%	Ticker	Name	Sector	Price Return
1	SRPT	Sarepta Therapeutics	Health Care	-56.3
2	ACAD	ACADIA Pharmaceuticals	Health Care	-51.7
3	BLI	Berkeley Lights	Health Care	-43.8
4	U	Unity Software	Technology	-34.6
5	ADPT	Adaptive Biotechnologies	Health Care	-31.9
6	AYX	Alteryx	Technology	-31.9
7	IOVA	Iovance Biotherapeutics	Health Care	-31.8
8	AMWL	American Well	Health Care	-31.4
9	ARRY	Array Technologies	Industrials	-30.9
10	BLUE	bluebird bio	Health Care	-30.3
11	FROG	JFrog	Technology	-29.4
12	QDEL	Quidel	Health Care	-28.8
13	STNE	StoneCo	Technology	-27.0
14	PTON	Peloton Interactive	Discretionary	-25.9
15	MDB	MongoDB	Technology	-25.5
16	PLAN	Anaplan	Technology	-25.1
17	COUP	Coupa Software	Technology	-24.9
18	ESTC	Elastic	Technology	-23.9
19	NVCR	Novocure	Health Care	-23.6
20	FSLY	Fastly	Technology	-23.0

Note: Return reflects period in benchmark if not included for full period



Russell 1000 Growth Largest Contributors - 1-Year

%	Ticker	Name	Sector	Beg. Wt.	Price Return	Contribution
1	AAPL	Apple	Technology	8.1	92.1	6.78
2	MSFT	Microsoft	Technology	9.2	49.5	4.10
3	AMZN	Amazon com	Discretionary	6.3	58.7	3.59
4	GOOGL	Alphabet	Comm Svcs	5.4	77.5	2.96
5	TSLA	Tesla	Discretionary	0.6	537.3	2.81
6	FB	Facebook	Comm Svcs	3.1	76.6	2.12
7	PYPL	PayPal Hldgs	Technology	0.9	153.6	1.15
8	NVDA	NVIDIA Corp	Technology	1.2	102.6	1.11
9	MA	Mastercard	Technology	1.6	47.4	0.73
10	UNH	UnitedHealth Group	Health Care	1.8	49.2	0.71
11	V	Visa	Technology	2.1	31.4	0.63
12	AVGO	Broadcom	Technology	0.7	95.6	0.55
13	ADBE	Adobe	Technology	1.2	49.4	0.54
14	LOW	Lowe's	Discretionary	0.5	121.0	0.52
15	QCOM	Qualcomm	Technology	0.6	96.0	0.51
16	HD	Home Depot	Discretionary	0.9	63.5	0.47
17	ACN	Accenture	Technology	0.8	69.2	0.47
18	NFLX	Netflix	Comm Svcs	1.2	38.9	0.45
19	AMAT	Applied Materials	Technology	0.2	191.6	0.45
20	CRM	salesforce com	Technology	0.9	47.2	0.41

Note: Return reflects period in benchmark if not included for full period

Source: Russell, FactSet, Credit Suisse

Russell 1000 Growth Largest Detractors – 1-Year

%	Ticker	Name	Sector	Beg. Wt.	Price Return	Contribution
1	REGN	Regeneron Pharmaceuticals	Health Care	0.1	-3.1	-0.05
2	RTN	Raytheon Co	Industrials	0.2	-10.8	-0.02
3	QDEL	Quidel	Health Care	0.1	-42.1	-0.01
4	ACAD	ACADIA Pharmaceuticals	Health Care	0.0	-46.2	-0.01
5	BIIB	Biogen	Health Care	0.1	-11.6	-0.01
6	RETA	Reata Pharmaceuticals	Health Care	0.0	-38.9	-0.01
7	GBT	Global Blood Therapeutics	Health Care	0.0	-37.8	-0.01
8	U	Unity Software	Technology	0.0	-36.4	-0.01
9	VRTX	Vertex Pharmaceuticals	Health Care	0.5	-9.7	-0.01
10	LUV	Southwest Airlines	Industrials	0.1	-10.2	-0.01
11	FSLY	Fastly	Technology	0.0	-22.2	0.00
12	LHX	L3Harris Technologies	Industrials	0.2	-5.8	0.00
13	BLUE	bluebird bio	Health Care	0.0	-50.5	0.00
14	SRPT	Sarepta Therapeutics	Health Care	0.1	-23.8	0.00
15	<b>EVBG</b>	Everbridge	Technology	0.0	-14.0	0.00
16	TDOC	Teladoc Health	Health Care	0.1	-6.0	0.00
17	SCHW	Charles Schwab	Financials	0.2	-5.6	0.00
18	CSL	Carlisle Cos	Industrials	0.0	-7.1	0.00
19	AMWL	American Well	Health Care	0.0	-35.7	0.00
20	BYND	Beyond Meat	Staples	0.0	-8.2	0.00

Note: Return reflects period in benchmark if not included for full period. REGN weight increased in the benchmark post reconstitution and its performance fell -21% since, leading to a negative contribution.



Russell 1000 Growth Top 20 Performers – 1-Year

%	Ticker	Name	Sector	Price Return
1	TSLA	Tesla	Discretionary	537.3
2	W	Wayfair	Discretionary	489.0
3	ETSY	Etsy	Discretionary	424.6
4	CVNA	Carvana	Discretionary	376.3
5	MRNA	Moderna	Health Care	337.2
6	SQ	Square	Technology	333.5
7	BILL	Bill com Holdings	Technology	325.4
8	WSM	Williams-Sonoma	Discretionary	321.4
9	TWLO	Twilio	Technology	280.8
10	ROKU	Roku	Comm Svcs	272.4
11	ENPH	Enphase Energy	Technology	258.0
12	PINS	Pinterest	Comm Svcs	242.6
13	HUBS	HubSpot	Technology	241.0
14	TTD	Trade Desk	Technology	237.6
15	TPX	Tempur Sealy Intl	Discretionary	234.6
16	ALGN	Align Technology	Health Care	211.3
17	HZNP	Horizon Therapeutics	Health Care	210.7
18	EXPE	Expedia Group	Discretionary	205.9
19	FND	Floor & Decor Holdings	Discretionary	197.5
20	AMAT	Applied Materials	Technology	191.6

Note: Return reflects period in benchmark if not included for full period

Source: Russell, FactSet, Credit Suisse

Russell 1000 Growth Bottom Performers – 1-Year

%	Ticker	Name	Sector	Price Return
1	BLUE	bluebird bio	Health Care	-50.5
2	ACAD	ACADIA Pharmaceuticals	Health Care	-46.2
3	QDEL	Quidel	Health Care	-42.1
4	RETA	Reata Pharmaceuticals	Health Care	-38.9
5	GBT	Global Blood Therapeutics	Health Care	-37.8
6	U	Unity Software	Technology	-36.4
7	AMWL	American Well	Health Care	-35.7
8	FROG	JFrog	Technology	-35.6
9	BLI	Berkeley Lights	Health Care	-30.5
10	ARRY	Array Technologies	Industrials	-29.0
11	SRPT	Sarepta Therapeutics	Health Care	-23.8
12	BIGC	BigCommerce Holdings	Technology	-22.9
13	FSLY	Fastly	Technology	-22.2
14	MSP	Datto Holding	Technology	-18.4
15	VRM	Vroom	Discretionary	-16.5
16	GOCO	GoHealth	Financials	-15.8
17	EVBG	Everbridge	Technology	-14.0
18	AYX	Alteryx	Technology	-12.8
19	CERT	Certara	Health Care	-11.8
20	NCNO	nCino	Technology	-11.7

Note: Return reflects period in benchmark if not included for full period



Russell 1000 Value Return Decomposition - 1Q21

	Current							Price		Total
	Weight	Revenue*	Margin*	Earnings*	Buybacks	EPS*	P/E	Return	Dividends	Return
Russell 1000 Value	100.0	3.6	6.6	10.4	-0.1	10.3	0.3	10.7	0.5	11.3
Financials	20.6	3.3	10.8	14.5	0.1	14.6	1.5	16.3	0.6	17.0
Industrials	13.9	3.1	2.3	5.5	0.0	5.5	7.1	13.0	0.4	13.4
Health Care	12.6	3.3	0.7	4.0	0.1	4.1	-0.4	3.7	0.4	4.1
Technology	9.5	3.6	4.2	8.0	0.1	8.2	1.6	9.9	0.4	10.3
Comm Svcs	9.2	2.0	3.6	5.7	-0.2	5.5	-0.2	5.3	0.5	5.9
Discretionary	7.8	3.3	6.7	10.3	0.7	11.1	2.5	13.8	0.3	14.2
Staples	7.1	1.0	2.1	3.1	-0.2	2.9	-0.6	2.3	0.7	3.0
Energy	5.1	10.9	76.6	95.9	-1.2	93.7	-34.6	26.7	1.2	28.3
Utilities	5.0	-0.6	3.1	2.5	-2.6	-0.1	1.7	1.6	0.8	2.4
Materials	4.8	6.8	9.1	16.5	0.1	16.7	-5.7	10.0	0.5	10.6
REITs	4.3	2.0	-0.5	1.5	0.8	2.4	5.4	8.0	0.8	8.8

Note: \*Change in forward estimates. Return reflects period in benchmark if not included for full period.

Source: Russell, FactSet, Thomson Financial, Credit Suisse

Russell 1000 Value Return Decomposition - 1-Year

	Current							Price		Total
	Weight	Revenue*	Margin*	Earnings*	Buybacks	EPS*	P/E	Return	Dividends	Return
Russell 1000 Value	100.0	14.6	2.6	17.6	-1.2	16.2	31.1	52.3	2.5	56.1
Financials	20.6	6.1	-2.0	4.1	0.6	4.7	52.9	60.1	2.7	64.5
Industrials	13.9	29.3	-4.1	24.0	-6.3	16.2	45.1	68.5	1.6	71.3
Health Care	12.6	21.9	7.1	30.5	0.8	31.5	0.3	31.8	1.9	34.3
Technology	9.5	49.1	16.1	73.2	1.8	76.3	-17.3	45.9	1.9	48.6
Comm Svcs	9.2	21.6	-8.2	11.6	-0.6	11.0	32.4	47.0	2.5	50.6
Discretionary	7.8	24.9	-0.5	24.2	-2.0	21.7	57.0	91.0	1.4	93.7
Staples	7.1	4.9	0.2	5.1	-0.8	4.3	20.4	25.6	3.1	29.5
Energy	5.1	-8.2	22.9	12.8	-3.4	9.0	37.5	49.8	5.7	58.4
Utilities	5.0	-3.5	12.1	8.2	-13.4	-6.2	21.7	14.1	3.4	18.0
Materials	4.8	14.8	23.1	41.3	0.6	42.2	25.1	77.8	2.2	81.8
REITs	4.3	8.2	-11.7	-4.5	3.7	-0.9	31.6	30.4	3.8	35.3

Note: \*Change in forward estimates. Return reflects period in benchmark if not included for full period.

Source: Russell, FactSet, Thomson Financial, Credit Suisse



Russell 1000 Value Largest Contributors - 1Q21

%	Ticker	Name	Sector	Beg. Wt.	Price Return	Contribution
1	JPM	JPMorgan Chase	Financials	2.2	19.8	0.44
2	BAC	Bank of America	Financials	1.4	27.6	0.37
3	XOM	Exxon Mobil	Energy	1.0	35.4	0.36
4	INTC	Intel	Technology	1.2	28.5	0.33
5	BRK.B	Berkshire Hathaway	Financials	2.5	10.2	0.25
6	GOOGL	Alphabet	Comm Svcs	1.4	17.7	0.24
7	CVX	Chevron	Energy	0.9	24.1	0.23
8	WFC	Wells Fargo	Financials	0.7	29.5	0.19
9	DE	Deere & Co	Industrials	0.4	39.1	0.17
10	CSCO	Cisco Systems	Technology	1.1	15.6	0.16
11	CAT	Caterpillar	Industrials	0.6	27.4	0.15
12	С	Citigroup	Financials	0.7	18.0	0.13
13	BA	Boeing	Industrials	0.7	19.0	0.12
14	GS	Goldman Sachs Group	Financials	0.5	24.0	0.12
15	GM	General Motors	Discretionary	0.3	38.0	0.12
16	GE	General Electric	Industrials	0.5	21.6	0.12
17	HD	Home Depot	Discretionary	0.8	14.9	0.11
18	SCHW	Charles Schwab	Financials	0.4	22.9	0.10
19	COP	ConocoPhillips	Energy	0.3	32.5	0.10
20	JNJ	Johnson & Johnson	Health Care	2.1	4.4	0.09

Note: Return reflects period in benchmark if not included for full period

Source: Russell, FactSet, Credit Suisse

Russell 1000 Value Largest Detractors - 1Q21

%	Ticker	Name	Sector	Beg. Wt.	Price Return	Contribution
1	WMT	Walmart	Staples	1.2	-5.8	-0.06
2	PTON	Peloton Interactive	Discretionary	0.2	-25.9	-0.04
3	CL	Colgate-Palmolive	Staples	0.4	-7.8	-0.03
4	VTRS	Viatris	Health Care	0.1	-25.5	-0.03
5	PG	Procter & Gamble	Staples	1.1	-2.7	-0.03
6	TMUS	T-Mobile US	Comm Svcs	0.4	-7.1	-0.03
7	PFE	Pfizer	Health Care	1.2	-1.6	-0.02
8	GPN	Global Payments	Technology	0.4	-6.4	-0.02
9	KO	Coca-Cola	Staples	0.5	-3.9	-0.02
10	VZ	Verizon Communications	Comm Svcs	1.4	-1.0	-0.02
11	PEP	PepsiCo	Staples	0.3	-4.6	-0.02
12	ROP	Roper Technologies	Industrials	0.2	-6.4	-0.01
13	NEE	NextEra Energy	Utilities	0.9	-2.0	-0.01
14	EA	Electronic Arts	Comm Svcs	0.2	-5.7	-0.01
15	ADSK	Autodesk	Technology	0.1	-9.2	-0.01
16	CTSH	Cognizant Tech	Technology	0.2	-4.7	-0.01
17	ARE	Alexandria Real Estate	REITs	0.1	-7.8	-0.01
18	<b>GWRE</b>	Guidewire Software	Technology	0.1	-21.1	-0.01
19	BDX	Becton, Dickinson	Health Care	0.4	-2.8	-0.01
20	VFC	VF	Discretionary	0.2	-6.4	-0.01

Note: Return reflects period in benchmark if not included for full period



### Russell 1000 Value Top 20 Performers - 1Q21

%	Ticker	Name	Sector	Price Return
1	TRIP	TripAdvisor	Comm Svcs	86.9
2	WSM	Williams-Sonoma	Discretionary	76.0
3	TDC	Teradata	Technology	71.5
4	COHR	Coherent	Technology	68.6
5	SBNY	Signature Bank	Financials	67.1
6	LB	L Brands	Discretionary	66.3
7	MRO	Marathon Oil	Energy	60.1
8	CLR	Continental Resources	Energy	58.7
9	XEC	Cimarex Energy	Energy	58.3
10	WAL	Western Alliance	Financials	57.5
11	OLN	Olin	Materials	54.6
12	OXY	Occidental Petroleum	Energy	53.8
13	FANG	Diamondback Energy	Energy	51.8
14	CNXC	Concentrix	Technology	51.7
15	AAL	American Airlines Group	Industrials	51.6
16	ADS	Alliance Data Systems	Technology	51.3
17	NUE	Nucor	Materials	50.9
18	PACW	PacWest Bancorp	Financials	50.2
19	ARD	Ardagh Group	Materials	47.6
20	GPS	Gap	Discretionary	47.5

Note: Return reflects period in benchmark if not included for full period

Source: Russell, FactSet, Credit Suisse

### Russell 1000 Value Bottom 20 Performers - 1Q21

%	Ticker	Name	Sector	Price Return
1	BLI	Berkeley Lights	Health Care	-43.8
2	U	Unity Software	Technology	-34.6
3	AMWL	American Well	Health Care	-31.4
4	ARRY	Array Technologies	Industrials	-30.9
5	BLUE	bluebird bio	Health Care	-30.3
6	FROG	JFrog	Technology	-29.4
7	PTON	Peloton Interactive	Discretionary	-25.9
8	VTRS	Viatris	Health Care	-25.5
9	LMND	Lemonade	Financials	-24.0
10	TREE	LendingTree	Financials	-22.2
11	MSGE	Madison Square Garden	Comm Svcs	-22.1
12	<b>GWRE</b>	Guidewire Software	Technology	-21.1
13	CDAY	Ceridian	Technology	-20.9
14	IONS	Ionis Pharmaceuticals	Health Care	-20.5
15	MRCY	Mercury Systems	Industrials	-19.8
16	RETA	Reata Pharmaceuticals	Health Care	-19.3
17	GRUB	GrubHub	Discretionary	-19.2
18	MIC	Macquarie Infrastructure	Industrials	-15.3
19	MSP	Datto Holding	Technology	-15.1
20	IAA	IAA	Industrials	-15.1

Note: Return reflects period in benchmark if not included for full period



Russell 1000 Value Largest Contributors - 1-Year

%	Ticker	Name	Sector	Beg. Wt.	Price Return	Contribution
1	JPM	JPMorgan Chase	Financials	2.7	69.1	1.28
2	DIS	Walt Disney	Comm Svcs	1.6	91.0	1.13
3	BAC	Bank of America	Financials	1.6	82.2	0.93
4	BRK.B	Berkshire Hathaway	Financials	3.4	39.7	0.93
5	GOOGL	Alphabet	Comm Svcs	1.3	51.4	0.61
6	JNJ	Johnson & Johnson	Health Care	2.8	25.3	0.57
7	CMCSA	Comcast	Comm Svcs	0.8	57.4	0.57
8	XOM	Exxon Mobil	Energy	1.5	47.0	0.56
9	CVX	Chevron	Energy	1.3	44.6	0.51
10	HD	Home Depot	Discretionary	0.8	63.5	0.46
11	С	Citigroup	Financials	0.9	72.7	0.46
12	LIN	Linde	Materials	0.9	61.9	0.44
13	DE	Deere & Co	Industrials	0.3	170.8	0.43
14	DHR	Danaher	Health Care	0.8	62.6	0.42
15	CAT	Caterpillar	Industrials	0.5	99.8	0.41
16	MS	Morgan Stanley	Financials	0.4	128.4	0.40
17	GS	Goldman Sachs Group	Financials	0.5	111.5	0.40
18	HON	Honeywell International	Industrials	0.5	62.2	0.38
19	TGT	Target	Discretionary	0.4	113.0	0.37
20	PG	Procter & Gamble	Staples	2.4	23.1	0.35

Note: Return reflects period in benchmark if not included for full period

Source: Russell, FactSet, Credit Suisse

Russell 1000 Value Largest Detractors – 1-Year

%	Ticker	Name	Sector	Beg. Wt.	Price Return	Contribution
1	GILD	Gilead Sciences	Health Care	0.8	-13.6	-0.08
2	BIIB	Biogen	Health Care	0.3	-11.6	-0.04
3	FE	FirstEnergy Corp	Utilities	0.2	-13.4	-0.02
4	RTN	Raytheon Co	Industrials	0.1	-10.8	-0.01
5	VTRS	Viatris	Health Care	0.1	-6.3	-0.01
6	SBAC	SBA Communications	REITs	0.2	-5.7	-0.01
7	ED	Consolidated Edison	Utilities	0.2	-4.1	-0.01
8	IONS	Ionis Pharmaceuticals	Health Care	0.0	-25.2	-0.01
9	BMRN	BioMarin Pharmaceutical	Health Care	0.0	-39.1	-0.01
10	PRGO	Perrigo	Health Care	0.1	-15.8	0.00
11	CTXS	Citrix Systems	Technology	0.0	-0.8	0.00
12	GRUB	GrubHub	Discretionary	0.0	-13.1	0.00
13	ARRY	Array Technologies	Industrials	0.0	-29.0	0.00
14	APA	Apache	Energy	0.0	-8.3	0.00
15	EQC	Equity Commonwealth	REITs	0.0	-12.3	0.00
16	SATS	EchoStar	Technology	0.0	-24.9	0.00
17	<b>GWRE</b>	Guidewire Software	Technology	0.1	-8.1	0.00
18	NI	NiSource	Utilities	0.1	-3.4	0.00
19	VNT	Vontier	Technology	0.0	-9.6	0.00
20	CACC	Credit Acceptance	Financials	0.0	40.9	0.00

Note: Return reflects period in benchmark if not included for full period



Russell 1000 Value Top 20 Performers - 1-Year

%	Ticker	Name	Sector	Price Return
1	LB	L Brands	Discretionary	435.1
2	FCX	Freeport-McMoRan	Materials	387.9
3	CPRI	Capri Holdings	Discretionary	372.7
4	TRGP	Targa Resources	Energy	359.5
5	AM	Antero Midstream	Energy	330.0
6	GPS	Gap	Discretionary	323.0
7	WSM	Williams-Sonoma	Discretionary	321.4
8	KSS	Kohl's	Discretionary	308.6
9	SIX	Six Flags Entertainment	Discretionary	270.6
10	Z	Zillow Group	Comm Svcs	259.9
11	DKS	Dick's Sporting Goods	Discretionary	258.2
12	XEC	Cimarex Energy	Energy	252.9
13	CDEV	Centennial Resource Dev	Energy	249.5
14	PINS	Pinterest	Comm Svcs	242.6
15	CLR	Continental Resources	Energy	238.6
16	ORTEA	Qurate Retail	Discretionary	235.0
17	ON	ON Semiconductor	Technology	234.5
18	ADS	Alliance Data Systems	Technology	233.1
19	AN	AutoNation	Discretionary	232.2
20	AR	Antero Resources	Energy	228.2

Note: Return reflects period in benchmark if not included for full period

Source: Russell, FactSet, Credit Suisse

Russell 1000 Value Bottom 20 Performers - 1-Year

%	Ticker	Name	Sector	Price Return
1	CHKAQ	Chesapeake Energy	Energy	-65.7
2	BMRN	BioMarin Pharmaceutical	Health Care	-39.1
3	RETA	Reata Pharmaceuticals	Health Care	-38.9
4	U	Unity Software	Technology	-36.4
5	AMWL	American Well	Health Care	-35.7
6	FROG	JFrog	Technology	-35.6
7	BLUE	bluebird bio	Health Care	-34.4
8	BLI	Berkeley Lights	Health Care	-30.5
9	ARRY	Array Technologies	Industrials	-29.0
10	IONS	Ionis Pharmaceuticals	Health Care	-25.2
11	SATS	EchoStar	Technology	-24.9
12	BIGC	BigCommerce Holdings	Technology	-22.9
13	TREE	LendingTree	Financials	-21.2
14	MSP	Datto Holding	Technology	-18.4
15	VRM	Vroom	Discretionary	-16.5
16	PRGO	Perrigo	Health Care	-15.8
17	GOCO	GoHealth	Financials	-15.8
18	GILD	Gilead Sciences	Health Care	-13.6
19	FE	FirstEnergy Corp	Utilities	-13.4
20	GRUB	GrubHub	Discretionary	-13.1

Note: Return reflects period in benchmark if not included for full period



### Companies Mentioned (Price as of 05-Apr-2021)

APA Corporation (APA.OQ, \$17.54)

AT&T (T.N, \$30.71)

**AbbVie Inc.** (ABBV.N, \$106.14)

Abbott Laboratories (ABT.N, \$119.86)

Abiomed (ABMD.OQ, \$321.5)

Accenture Plc (ACN.N, \$281.13)

Adobe Systems Inc. (ADBE.OQ, \$491.62)

Adobe Systems Inc. (ADBE.OQ, \$491.62)
Aimco (AIV.N, \$6.42)
Air Products & Chemicals (APD.N, \$289.51)
Align Technology, Inc. (ALGN.OQ, \$547.94)
Alliance Data (ADS.N, \$113.47)
Alliant Energy (LNT.OQ, \$54.84)
Alphabet (GOOGL.OQ, \$2218.96)
Alteryx (AYX.N, \$84.35)
Amazon com Inc. (AMZN.OQ, \$3226.73)
Amazon Akrijnes Group Inc. (AAL.OQ, \$24.

American Airlines Group Inc. (AAL.OQ, \$24.23) American Electric Power (AEP.OQ, \$86.29) American Express Co. (AXP.N, \$146.06)

American Tower (AMT.N, \$244.75) Apple Inc (AAPL.OQ, \$125.9)

Apple inc (AAPL.OQ, \$125.9)
Applied Materials Inc. (AMAT.OQ, \$143.05)
AvalonBay Communities, Inc. (AVB.N, \$185.99)
Bank of America Corp. (BAC.N, \$39.8)
Berkeley Lights (BLI.OQ, \$51.3)
Berkshire (BRKb.N, \$262.66)
Best Buy (BBY.N, \$117.99)
BigCommerce Hldg (BIGC.OQ, \$59.51)
Bill.Com Hldg (BILL.N, \$147.24)

Bill.Com Hldg (BILL.N, \$147.24) Biogen, Inc. (BIB.OQ, \$277.88)

Black Kngt (BKI.N, \$74.63)

Boeing (BA.N, \$259.36)

Booking Holdings Inc. (BKNG.OQ, \$2409.18)

Booking Holdings Inc. (BKNG.OQ, \$2409.18)
Boston Properties, Inc. (BXP.N, \$104.02)
Boston Scientific Corp. (BSX.N, \$39.04)
Broadcom Ltd (AVGO.OQ, \$488.48)
CIT Group Inc. (CIT.N, \$51.82)
CMS Energy Corp (CMS.N, \$61.48)
Cadence Design System (CDNS.OQ, \$145.87)
Cantel Medical (CMD.N, \$82.7)
Capri Holdings (CPRI.N, \$50.2)
Carnival Corporation (CCL.N, \$28.11)
Carries (CAPP.N, \$42.58)

Carrier Global Corporation (CARR.N, \$42.58)

Carvana (CVNA.N, \$267.33) Caterpillar Inc. (CAT.N, \$233.71)

Chevron Corporation (CVX.N, \$104.51)

Chevron Corporation (CVX.N, \$104.51)
Cimarex Energy Co. (XEC.N, \$61.88)
Cisco Systems (CSCO.OQ, \$52.41)
Citigroup Inc. (C.N, \$72.75)
Coherent (COHR.OQ, \$259.89)
Colgate-Palmolive Company (CL.N, \$79.53)
Colony Capital (CLNY.N, \$6.71)
Comcast Corp. (CMCSA.OQ, \$54.8)
ConocoPhillips (COP.N, \$52.21)

Consolidated Edison (ED.N, \$75.28)

Costco Wholesale (COST.OQ, \$360.82) Coty Inc (COTY.N, \$9.07) CrowdStrike, Inc. (CRWD.OQ, \$186.62) Danaher Corporation (DHR.N, \$226.53)

Danaher Corporation (DHR.N, \$226.53)
Datto Holding Corp (MSP.N, \$233.39)
Deere & Co. (DE.N, \$374.81)
Delta Air Lines, Inc. (DAL.N, \$50.25)
Devon Energy Corporation (DVN.N, \$22.46)
Diamondback Energy, Inc. (FANG.OQ, \$75.4)
Discovery Inc. (DISCA.OQ, \$41.64)
DocuSign (DOCU.OQ, \$205.65)
Dollar General Corporation (DG.N, \$207.78)
Dominion Energy (D.N, \$76.41)
Duke Energy (DUK.N, \$96.93)
FOG Resources, Inc. (FOG N, \$71.79)

EOG Resources, Inc. (EOG.N, \$71.79) ETSY (ETSY.OQ, \$197.2)

Eli Lilly and Co. (LLY.N, \$184.89) Empire St Realty (ESRT.N, \$11.46)

Empire St Reaity (ESR1.N, \$11.46)
Enphase Energy (ENPH.OQ, \$149.42)
Entergy Corp (ETR.N, \$100.53)
Equinix, Inc. (EQIX.OQ, \$690.24)
Equity Residential (EQR.N, \$72.15)
Expedia (EXPE.OQ, \$176.02)
ExxonMobil Corporation (XOM.N, \$56.5)
Facebook Inc. (FB.OQ, \$308.91)

FedEx Corporation (FDX.N, \$281.57) FirstEnergy Corp (FE.N, \$34.8) Freeport-McMoRan (FCX.N, \$35.36) Generac Hidg (GNRC.N, \$325.04)

General Electric (GE.N, \$13.46)

Gilead Sciences, Inc (GILD.OQ, \$66.34)

Global Payments (GPN.N, \$209.91) Goldman Sachs Group, Inc. (GS.N, \$323.54)

Return Decomposition Monthly



Grocery Outlet (GO.OQ, \$37.48) Grubhub Inc. (GRUB.N, \$63.81) H&R Block, Inc. (HRB.N, \$22.45) H&R Block, Inc. (HRB.N, \$22.45)
Helmerich & Payne, Inc. (HR.N, \$26.85)
Hess Corporation (HES.N, \$70.76)
Hilton Worldwide Holdings (HLT.N, \$125.4)
HollyFrontier Corporation (HFC.N, \$36.99)
Home Depot (HD.N, \$315.4)
Honeywell International Inc. (HON.N, \$219.27)
Horizon Therapeu (HZNP.OQ, \$90.82)
Howard Hugh (HHC.N, \$98.2)
HubSpot (HUBS.N, \$475.27)
IDEXX Laboratories (IDXX.OQ, \$491.31)
Illumina (II MN OQ \$384.54) Illumina (ILMN.OQ, \$384.54) Intel Corp. (INTC.OQ, \$66.54) InterActiveCorp (IAC.OQ, \$225.39) International Business Machines (IBM.N, \$135.93) JPMorgan Chase & Co. (JPM.N, \$153.62)
Jfrog (FROG.OQ, \$44.42)
Johnson & Johnson (JNJ.N, \$163.43)
KLA Corporation (KLAC.OQ, \$355.08)
Kimco Realty (KIM.N, \$19.05)
Kinder Morgan Inc. (KMI.N, \$16.66)
Kohl's Corporation (KSS.N, \$59.07) L Brands, Inc. (LB.N, \$61.76) LPL Financial Services (LPLA.OQ, \$145.18) Lam Research Corp. (LRCX.OQ, \$660.8) Lemonade Inc (LMND.N, \$92.05) Lincoln National (LNC.N, \$62.55) Live Nation (LYV.N, \$87.55) Lockheed Martin Corporation (LMT.N, \$378.75) MGM Resorts International (MGM.N, \$41.7) Macy's Inc. (M.N., \$15.79)

Marathon Oil Corporation (MRO.N., \$11.19)

Marriott International (MAR.OQ, \$150.93)

MasterCard Inc. (MA.N., \$368.32)

McDonald's Corporation (MCD.N., \$228.85) Merck & Co Inc. (MRK.N, \$77.0) Micron Technology Inc. (MU.OQ, \$93.75) Microsoft (MSFT.OQ, \$249.07) Moderna Inc. (MRNA.OQ, \$129.91) Moderna Inc. (MRNA.OQ, \$129.91)
MongoDB (MDB.OQ, \$289.6)
Morgan Stanley (MS.N, \$78.0)
Motorola Solutions (MSI.N, \$191.34)
Murphy Oil Corporation (MUR.N, \$16.3)
NVIDIA Corporation (NVDA.OQ, \$559.5)
Netflix Inc. (NFLX.OQ, \$540.67)
Newmont (NEM.N, \$62.49)
Nexstar Broadcasting Group (NXST.OQ, \$141.41)
Nike Inc. (NKE.N. \$135.12) Nextar Broadcasting Group (NAS1.OQ, \$141.41)
Nike Inc. (NKE.N, \$135.12)
Noble Energy, Inc. (NBL.OQAJ20)
Nordstrom, Inc. (JWN.N, \$36.83)
Norwegian Cruise Line Holdings (NCLH.N, \$29.71) ONEOK Inc (OKE.N, \$51.03) OUTFRONT Media (OUT.N, \$22.09) Occidental Petroleum Corporation (OXY.N, \$25.31) Oracle Corporation (ORCL.N, \$74.16) Park Hotels (PK.N, \$21.8)
PayPal (PYPL.OQ, \$251.02)
PepsiCo (PEP.OQ, \$143.16)
Pinnacle West Capital Corp. (PNW.N, \$83.05) Pinterest (PINS.N. \$79.53) Pioneer Natural Resources Company (PXD.N, \$152.18) Procter & Gamble (PG.N, \$136.45)
Progressive Corporation (PGR.N, \$96.72) **Prologis, Inc.** (PLD.N, \$108.37) QUALCOMM Inc. (QCOM.OQ, \$140.33) Quanta Services (PWR.N, \$91.93) Quidel (QDEL.OQ, \$132.21) Raytheon Company (RTN.N^D20) Raytheon Technologies (RTX.N, \$77.91)
Regeneron Pharmaceuticals, Inc. (REGN.OQ, \$484.56)
Roku (ROKU.OQ, \$328.29)
Rollins (ROL.N, \$35.39)
Royal Gold (RGLD.OQ, \$110.71) SBA Commns (SBAC.OQ, \$285.11)
SLM Corp (SLM.OQ, \$18.74)
SVB Financial Group (SIVB.OQ, \$490.02) Sabre (SABR.OQ, \$15.56) Salesforce.com (CRM.N, \$220.29) Salestorce.com (CRM.N., \$220.29)
Sarepta Therapeutics, Inc. (SRPT.OQ, \$75.61)
Schlumberger (SLB.N, \$27.55)
Sempra USA (SRE.N, \$133.84)
Signature Bank (SBNY.OQ, \$228.19)
Simon Property Group, Inc. (SPG.N, \$115.05)
SolarWinds (SWI.N, \$17.51)
Southwest Airlines Co. (LUV.N, \$62.97)

Splunk, Inc. (SPLK.OQ, \$140.48)



Square (SQ.N, \$229.95) Tandem Diabetes (TNDM.OQ, \$86.06) TechnipFMC (FTI.N, \$7.85) Teradata Corp (TDC.N, \$40.95) **Tesla Inc** (TSLA.OQ, \$691.05) The Charles Schwab Corp (SCHW.N, \$68.15) The Clorox Company (CLX.N, \$194.4) The Coca-Cola Company (KO.N, \$52.81) The Walt Disney Company (DIS.N, \$188.5) Thermo Fisher (TMO.N, \$465.39) Trade Desk (TTD.OQ, \$653.18) Trane Technologies (TT.N, \$167.45) TransDigm (TDG.N, \$603.77) TripAdvisor, Inc. (TRIP.OQ, \$56.79) Twilio (TWLO.N, \$348.43) Twitter (TWTR.N, \$64.24) Under Armour, Inc. (UAA.N, \$22.97) United Airlines Holdings, Inc. (UAL.OQ, \$59.29) United Rentals (URI.N, \$331.53) UnitedHealth Group Inc. (UNH.N, \$370.18) Unity Software Inc. (U.N, \$100.6) Valero Energy Corporation (VLO.N, \$74.62) Verisk Analytics (VRSK.OQ, \$181.55) Verizon Communications (VZ.N, \$58.87) ViacomCBS Inc. (VIAC.OQ, \$42.9) Virgin Galactic (SPCE.N, \$29.6) Visa Inc. (V.N, \$219.04) WEC Energy (WEC.N, \$93.81) WEX (WEX.N, \$215.17) Walmart Inc. (WMT.N, \$139.43) Wayfair Inc. (W.N, \$323.73) Wells Fargo & Company (WFC.N, \$39.48) Western Alliance Bancorporation (WAL.N, \$93.09) Wynn Resorts Ltd (WYNN.OQ, \$131.07) Xcel Energy (XEL.OQ, \$68.11) Xerox (XRX.N, \$24.78) Zebra Technologies Corporation (ZBRA.OQ, \$492.8) **Zillow Group** (Z.OQ, \$133.48) Zoom Video Communications (ZM.OQ, \$323.96) bluebird bio (BLUE.OQ, \$31.1)

### Disclosure Appendix

### **Analyst Certification**

I, Manish Bangard, CFA, certify that (1) the views expressed in this report accurately reflect my personal views about all of the subject companies and securities and (2) no part of my compensation was, is or will be directly or indirectly related to the specific recommendations or views expressed in this report.

### As of December 10, 2012 Analysts' stock rating are defined as follows:

**Outperform (O):** The stock's total return is expected to outperform the relevant benchmark\* over the next 12 months. **Neutral (N):** The stock's total return is expected to be in line with the relevant benchmark\* over the next 12 months.

**Underperform (U):** The stock's total return is expected to underperform the relevant benchmark\* over the next 12 months.

\*Relevant benchmark by region: As of 10th December 2012, Japanese ratings are based on a stock's total return relative to the analyst's coverage universe which consists of all companies covered by the analyst within the relevant sector, with Outperforms representing the most attractive, Neutrals the less attractive, and Underperforms the least attractive investment opportunities. As of 2nd October 2012, U.S. and Canadian as well as European (excluding Turkey) ratings are based on a stock's total return relative to the analyst's coverage universe which consists of all companies covered by the analyst within the relevant sector, with Outperforms representing the most attractive, Neutrals the less attractive, and Underperforms the least attractive investment opportunities. For Latin America, Turkey and Asia (excluding Japan and Australia), stock ratings are based on a stock's total return relative to the average total return of the relevant country or regional benchmark (India - S&P BSE Sensex Index); prior to 2nd October 2012 U.S. and Canadian ratings were based on (1) a stock's absolute total return potential to its current share price and (2) the relative attractiveness of a stock's total return potential within an analyst's coverage universe. For Australian and New Zealand stocks, the expected total return (ETR) calculation includes 12-month rolling dividend yield. An Outperform rating is assigned where an ETR is greater than or equal to 7.5%; Underperform where an ETR less than or equal to 5%. A Neutral may be assigned where the ETR is between -5% and 15%. The overlapping rating range allows analysts to assign a rating that puts ETR in the context of associated risks. Prior to 18 May 2015, ETR ranges for Outperform and Underperform ratings did not overlap with Neutral thresholds between 15% and 7.5%, which was in operation from 7 July 2011.

**Restricted (R):** In certain circumstances, Credit Suisse policy and/or applicable law and regulations preclude certain types of communications, including an investment recommendation, during the course of Credit Suisse's engagement in an investment banking transaction and in certain other circumstances.

**Not Rated (NR):** Credit Suisse Equity Research does not have an investment rating or view on the stock or any other securities related to the company at this time.

**Not Covered (NC):** Credit Suisse Equity Research does not provide ongoing coverage of the company or offer an investment rating or investment view on the equity security of the company or related products.



**Volatility Indicator [V]:** A stock is defined as volatile if the stock price has moved up or down by 20% or more in a month in at least 8 of the past 24 months or the analyst expects significant volatility going forward.

Analysts' sector weightings are distinct from analysts' stock ratings and are based on the analyst's expectations for the fundamentals and/or valuation of the sector\* relative to the group's historic fundamentals and/or valuation:

Overweight: The analyst's expectation for the sector's fundamentals and/or valuation is favorable over the next 12 months.

Market Weight: The analyst's expectation for the sector's fundamentals and/or valuation is neutral over the next 12 months.

**Underweight:** The analyst's expectation for the sector's fundamentals and/or valuation is cautious over the next 12 months.

\*An analyst's coverage sector consists of all companies covered by the analyst within the relevant sector. An analyst may cover multiple sectors.

Credit Suisse's distribution of stock ratings (and banking clients) is:

Global Ratings Distribution		
Rating	Versus universe (%)	Of which banking clients (%)
Outperform/Buy*	53%	(32% banking clients)
Neutral/Hold*	34%	(25% banking clients)
Underperform/Sell*	11%	(20% banking clients)
Restricted	2%	

Please click here to view the MAR quarterly recommendations and investment services report for fundamental research recommendations.

\*For purposes of the NYSE and FINRA ratings distribution disclosure requirements, our stock ratings of Outperform, Neutral, and Underperform most closely correspond to Buy, Hold, and Sell, respectively; however, the meanings are not the same, as our stock ratings are determined on a relative basis. (Please refer to definitions above.) An investor's decision to buy or sell a security should be based on investment objectives, current holdings, and other individual factors.

### **Important Global Disclosures**

Credit Suisse's research reports are made available to clients through our proprietary research portal on CS PLUS. Credit Suisse research products may also be made available through third-party vendors or alternate electronic means as a convenience. Certain research products are only made available through CS PLUS. The services provided by Credit Suisse's analysts to clients may depend on a specific client's preferences regarding the frequency and manner of receiving communications, the client's risk profile and investment, the size and scope of the overall client relationship with the Firm, as well as legal and regulatory constraints. To access all of Credit Suisse's research that you are entitled to receive in the most timely manner, please contact your sales representative or go to <a href="https://plus.credit-suisse.com">https://plus.credit-suisse.com</a>.

Credit Suisse's policy is to update research reports as it deems appropriate, based on developments with the subject company, the sector or the market that may have a material impact on the research views or opinions stated herein.

Credit Suisse's policy is only to publish investment research that is impartial, independent, clear, fair and not misleading. For more detail please refer to Credit Suisse's Policies for Managing Conflicts of Interest in connection with Investment Research: <a href="https://www.credit-suisse.com/sites/disclaimers-ib/en/managing-conflicts.html">https://www.credit-suisse.com/sites/disclaimers-ib/en/managing-conflicts.html</a>.

Any information relating to the tax status of financial instruments discussed herein is not intended to provide tax advice or to be used by anyone to provide tax advice. Investors are urged to seek tax advice based on their particular circumstances from an independent tax professional.

Credit Suisse has decided not to enter into business relationships with companies that Credit Suisse has determined to be involved in the development, manufacture, or acquisition of anti-personnel mines and cluster munitions. For Credit Suisse's position on the issue, please see <a href="https://www.credit-suisse.com/media/assets/corporate/docs/about-us/responsibility/banking/policy-summaries-en.pdf">https://www.credit-suisse.com/media/assets/corporate/docs/about-us/responsibility/banking/policy-summaries-en.pdf</a>.

The analyst(s) responsible for preparing this research report received compensation that is based upon various factors including Credit Suisse's total revenues, a portion of which are generated by Credit Suisse's investment banking activities

For date and time of production, dissemination and history of recommendation for the subject company(ies) featured in this report, disseminated within the past 12 months, please refer to the link: <a href="https://rave.credit-suisse.com/disclosures/view/report?i=605035&v=6pq8zxrmkhf0fe6qdidouz4at">https://rave.credit-suisse.com/disclosures/view/report?i=605035&v=6pq8zxrmkhf0fe6qdidouz4at</a>.

### **Important Regional Disclosures**

Singapore recipients should contact Credit Suisse AG, Singapore Branch for any matters arising from, or in connection with, this research report. The analyst(s) involved in the preparation of this report may participate in events hosted by the subject company, including site visits. Credit Suisse does not accept or permit analysts to accept payment or reimbursement for travel expenses associated with these events.

For Credit Suisse Securities (Canada), Inc.'s policies and procedures regarding the dissemination of equity research, please visit https://www.credit-suisse.com/sites/disclaimers-ib/en/canada-research-policy.html.

Investors should note that income from such securities and other financial instruments, if any, may fluctuate and that price or value of such securities and instruments may rise or fall and, in some cases, investors may lose their entire principal investment.

To the extent any Credit Suisse equity research analyst employed by Credit Suisse International (a "UK Analyst") has interactions with a Spanish domiciled client of Credit Suisse AG or its affiliates, such UK Analyst will be acting for and on behalf of CSSSV, with respect only to the provision of equity research services to Spanish domiciled clients of Credit Suisse AG or its affiliates.

Pursuant to CVM Resolution No. 20/2021, of February 25, 2021, the author(s) of the report hereby certify(ies) that the views expressed in this report solely and exclusively reflect the personal opinions of the author(s) and have been prepared independently, including with respect to Credit Suisse. Part of the author(s)'s compensation is based on various factors, including the total revenues of Credit Suisse, but no part of the compensation has been, is, or will be related to the specific recommendations or views expressed in this report. In addition, Credit Suisse declares that: Credit Suisse has provided, and/or may in the future provide investment banking, brokerage, asset management, commercial banking and other financial services to the subject company/companies or its affiliates, for which they have received or may receive customary



fees and commissions, and which constituted or may constitute relevant financial or commercial interests in relation to the subject company/companies or the subject securities.

This research report is authored by:

Credit Suisse Securities (USA) LLCManish Bangard, CFA; Jonathan Golub, CFA; Patrick Palfrey; Mark Coates, CFA; Chandni Chellappa; Katherine Zhou

#### **S&P Disclosures**

Copyright © 2021, Standard & Poor's Global Markets Intelligence and its affiliates (collectively, "S&P"). S&P sourced information is the exclusive property of S&P. Without prior written permission of S&P, such information, including data and ratings, may not be reproduced in any form. S&P and any third parties involved in or related to, computing or compiling this information, disclaim any guarantees of accuracy, adequacy, completeness, timeliness or availability with respect to this information. S&P and its licensors are not responsible for the results derived from their provided data, including any errors, omissions, observations, investment views or recommendations. In no event shall S&P or its licensors be liable for any damages, costs, expenses, legal fees, or losses (including lost income or lost profit and opportunity costs) in connection with any use of its content.

Important disclosures regarding companies that are the subject of this report are available by calling +1 (877) 291-2683. The same important disclosures, with the exception of valuation methodology and risk discussions, are also available on Credit Suisse's disclosure website at <a href="https://rave.credit-suisse.com/disclosures">https://rave.credit-suisse.com/disclosures</a>. For valuation methodology and risks associated with any recommendation, price target, or rating referenced in this report, please refer to the disclosures section of the most recent report regarding the subject company.



This report is produced by subsidiaries and affiliates of Credit Suisse operating under its Global Markets Division. For more information on our structure, please use the following link: <a href="https://www.credit-suisse.com/who-we-are">https://www.credit-suisse.com/who-we-are</a> This report may contain material that 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 or which would subject Credit Suisse or its affiliates ("CS") to any registration or licensing requirement within such jurisdiction. All material presented in this report, unless specifically indicated otherwise, is under copyright to CS. None of the material, nor its content, nor any copy of it, may be altered in any way, transmitted to, copied or distributed to any other party, without the prior express written permission of CS. All trademarks, service marks and logos used in this report are trademarks or service marks or service marks of CS or its affiliates. The information, tools and material presented in this report are provided to you for information purposes only and are not to be used or considered as an offer or the solicitation of an offer to sell or to buy or subscribe for securities or other financial instruments. CS may not have taken any steps to ensure that the securities referred to in this report are suitable for any particular investor. CS will not treat recipients of this report as its customers by virtue of their receiving this report. The investments and services contained or referred to in this report may not be suitable for you and it is recommended that you consult an independent investment advisor if you are in doubt about such investments or investment services. Nothing in this report constitutes investment, legal, accounting or tax advice, or a representation that any investment or strategy is suitable or appropriate to your individual circumstances, or otherwise constitutes a personal recommendation to you. Please note in particular that the bases and levels of taxation may change. Information and opinions presented in this report have been obtained or derived from sources believed by CS to be reliable, but CS makes no representation as to their accuracy or completeness. CS accepts no liability for loss arising from the use of the material presented in this report, except that this exclusion of liability does not apply to the extent that such liability arises under specific statutes or regulations applicable to CS. This report is not to be relied upon in substitution for the exercise of independent judgment. CS may have issued, and may in the future issue, other communications that are inconsistent with, and reach different conclusions from, the information presented in this report. Those communications reflect the different assumptions, views and analytical methods of the analysts who prepared them and CS is under no obligation to ensure that such other communications are brought to the attention of any recipient of this report. Some investments referred to in this report will be offered solely by a single entity and in the case of some investments solely by CS, or an associate of CS or CS may be the only market maker in such investments. Past performance should not be taken as an indication or guarantee of future performance, and no representation or warranty, express or implied, is made regarding future performance. Information, opinions and estimates contained in this report reflect a judgment at its original date of publication by CS and are subject to change without notice. The price, value of and income from any of the securities or financial instruments mentioned in this report can fall as well as rise. The value of securities and financial instruments is subject to exchange rate fluctuation that may have a positive or adverse effect on the price or income of such securities or financial instruments. Investors in securities such as ADR's, the values of which are influenced by currency volatility, effectively assume this risk. Structured securities are complex instruments, typically involve a high degree of risk and are intended for sale only to sophisticated investors who are capable of understanding and assuming the risks involved. The market value of any structured security may be affected by changes in economic, financial and political factors (including, but not limited to, spot and forward interest and exchange rates), time to maturity, market conditions and volatility, and the credit quality of any issuer or reference issuer. Any investor interested in purchasing a structured product should conduct their own investigation and analysis of the product and consult with their own professional advisers as to the risks involved in making such a purchase. Some investments discussed in this report may have a high level of volatility. High volatility investments may experience sudden and large falls in their value causing losses when that investment is realised. Those losses may equal your original investment. Indeed, in the case of some investments the potential losses may exceed the amount of initial investment and, in such circumstances, you may be required to pay more money to support those losses. Income yields from investments may fluctuate and, in consequence, initial capital paid to make the investment may be used as part of that income yield. Some investments may not be readily realisable and it may be difficult to sell or realise those investments, similarly it may prove difficult for you to obtain reliable information about the value, or risks, to which such an investment is exposed. This report may provide the addresses of, or contain hyperlinks to, websites. Except to the extent to which the report refers to website material of CS, CS has not reviewed any such site and takes no responsibility for the content contained therein. Such address or hyperlink (including addresses or hyperlinks to CS's own website material) is provided solely for your convenience and information and the content of any such website does not in any way form part of this document. Accessing such website or following such link through this report or CS's website shall be at your own risk.

This report is issued and distributed in European Union (except Germany and Spain): by Credit Suisse Securities (Europe) Limited, One Cabot Square, London E14 4QJ, England, which is authorised by the Prudential Regulation Authority and regulated by the Financial Conduct Authority and the Prudential Regulation Authority, Spain: Credit Suisse Securities, Sociedad de Valores, SA. ("CSSSV") regulated by the Comision Nacional del Mercado de Valores, Germany: Credit Suisse (Deutschland) Aktiengeselischaft regulated by the Bundesanstalt fuer Finanzdienstleistungsaufsicht ("BaFin"). United States: Credit Suisse Securities (USA) LLC; Canada: Credit Suisse Securities (Canada), Inc.; Switzerland: Credit Suisse AG; Brazil: Banco de Investimentos Credit Suisse (Brasil) SA or its affiliates; Mexico: Banco Credit Suisse (México), S.A., Institución de Banca Múltiple, Grupo Financiero Credit Suisse (México) ("Credit Suisse (México)"). Mexico"). This document has been prepared for information purposes only and is exclusively distributed in Mexico to Institutional Investors. Credit Suisse Mexico is not responsible for any onward distribution of this report to non-institutional investors by any third party. The authors of this report have not received payment or compensation from any entity or company other than from the relevant Credit Suisse Group company employing them; Japan: by Credit Suisse Securities (Japan) Limited, Financial Instruments Firm, Director-General of Kanto Local Finance Bureau (Kinsho) No. 66, a member of Japan Securities Dealers Association, The Financial Futures Association of Japan, Japan Investment Advisers Association, Type II Financial Instruments Firms Association; Hong Kong: Credit Suisse (Hong Kong) Limited; Australia: Credit Suisse Equities (Australia) Limited; Thailand: Credit Suisse Securities (Thailand) Limited, regulated by the Office of the Securities and Exchange Commission, Thailand, having registered address at 990 Abdulrahim Place, 27th Floor, Unit 2701, Rama IV Road, Silom, Bangrak, Bangkok 10500, Thailand, Tell. +66 2614 6000; Malaysia: Credit Suisse Securities (India) Private Limited (CIN no.U67120MH1996PTC104392) regulated by the Securities and Exchange Board of India as Research Analyst (registration no. INH 000001030) and as Stock Broker (registration no. INZ000248233), having registered address at 9th Floor, Ceejay House, Dr.A.B. Road, Worli, Mumbai - 18, India, T - +91-22 6777 3777; South Korea: Credit Suisse Securities (Europe) Limited, Seoul Branch; Taiwan: Credit Suisse AG Taipei Securities Branch; Indonesia: PT Credit Suisse Sekuritas Indonesia; Philippines: Credit Suisse Securities (Philippines) Inc., and elsewhere in the world by the relevant authorised affiliate of the above

#### Additional Regional Disclaimers

Australia: Credit Suisse Securities (Europe) Limited ("CSSEL") and Credit Suisse International ("CSI") are authorised by the Prudential Regulation Authority and regulated by the Financial Conduct Authority ("FCA") and the Prudential Regulation Authority under UK laws, which differ from Australian Laws. CSSEL and CSI do not hold an Australian Financial Services Licence ("AFSL") and are exempt from the requirement to hold an AFSL under the Corporations Act (Cth) 2001 ("Corporations Act") in respect of the financial services provided to Australian wholesale clients (within the meaning of section 761G of the Corporations Act) (hereinafter referred to as "Financial Services"). This material is not for distribution to retail clients and is directed exclusively at Credit Suisse's professional clients and eligible counterparties as defined by the FCA, and wholesale clients as defined under section 761G of the Corporations Act. Credit Suisse (Hong Kong) Limited ("CSHK") is licensed and regulated by the Securities and Futures Commission of Hong Kong under the laws of Hong Kong, which differ from Australian laws. CSHKL does not hold an AFSL and is exempt from the requirement to hold an AFSL under the Corporations Act in respect of providing Financial Services. Investment banking services in the United States are provided by Credit Suisse Securities (USA) LLC, an affiliate of Credit Suisse Group. CSSU is regulated by the United States Securities and Exchange Commission under United States laws, which differ from Australian laws. CSSU does not hold an AFSL and is exempt from the requirement to hold an AFSL under the Corporations Act in respect of providing Financial Services. Credit Suisse Asset Management LLC (CSAM) is authorised by the Securities and Exchange Commission under US laws, which differ from Australian laws. CSAM does not hold an AFSL and is exempt from the requirement to hold an AFSL under the Corporations Act in respect of providing Financial Services. This material is provided solely to Institutional Accounts (as defined in the FINRA rules) who are Eligible Contract Participants (as defined in the US Commodity Exchange Act). Credit Suisse Equities (Australia) Limited (ABN 35 068 232 708) ("CSEAL") is an AFSL holder in Australia (AFSL 237237).

Malaysia: Research provided to residents of Malaysia is authorised by the Head of Research for Credit Suisse Securities (Malaysia) Sdn Bhd, to whom they should direct any queries on +603 2723 2020.

Singapore: This report has been prepared and issued for distribution in Singapore to institutional investors, accredited investors and expert investors (each as defined under the Financial Advisers Regulations) only, and is also distributed by Credit Suisse AG, Singapore Branch to overseas investors (as defined under the Financial Advisers Regulations). Credit Suisse AG, Singapore Branch may distribute reports produced by its foreign entities or affiliates pursuant to an arrangement under Regulation 32C of the Financial Advisers Regulations. Singapore recipients should contact Credit Suisse AG, Singapore Branch at +65-6212-2000 for matters arising from, or in connection with, this report. By virtue of your status as an institutional investor, accredited investor, expert investor or overseas investor, Credit Suisse AG, Singapore Branch is exempted from complying with certain compliance requirements under the Financial Advisers Act, Chapter 110 of Singapore (the "FAA"), the Financial Advisers Regulations and the relevant Notices and Guidelines issued thereunder, in respect of any financial advisory service which Credit Suisse AG, Singapore Branch may provide to you.

EU: This report has been produced by subsidiaries and affiliates of Credit Suisse Operating under its Global Markets Division

In jurisdictions where CS is not already registered or licensed to trade in securities, transactions will only be effected in accordance with applicable securities legislation, which will vary from jurisdiction to jurisdiction and may require that the trade be made in accordance with applicable exemptions from registration or licensing requirements.

This material is issued and distributed in the U.S. by CSSU, a member of NYSE, FINRA, SIPC and the NFA, and CSSU accepts responsibility for its contents. Clients should contact analysts and execute transactions through a Credit Suisse subsidiary or affiliate in

their home jurisdiction unless governing law permits otherwise.

CS may provide various services to US municipal entities or obligated persons ("municipalities"), including suggesting individual transactions or trades and entering into such transactions. Any services CS provides to municipalities are not viewed as "advice" within the meaning of Section 975 of the Dodd-Frank Wall Street Reform and Consumer Protection Act. CS is providing any such services and related information solely on an arm's length basis and not as an advisor or fiduciary to the municipality. In connection with the provision of the any such services, there is no agreement, direct or indirect, between any municipality (including the officials, management, employees or agents thereof) and CS for CS to provide advice to the municipality. Municipalities should consult with their financial, accounting and legal advisors regarding any such services provided by CS. In addition, CS is not acting for direct or indirect or indirect compensation to solicit the municipality on behalf of an unaffiliated broker, dealer, municipal securities dealer, municipal advisor, or investment adviser for the purpose of obtaining or retaining an engagement by the municipality for or in connection with Municipal Financial Products, the issuance of municipal securities, or of an investment adviser to provide investment advisory services to or on behalf of the municipality. If this report is being distributed by a financial institution other than Credit Suisse AG, or its affiliates, that financial institution is solely responsible for distribution. Clients of that institution should contact that institution to effect a transaction in the securities mentioned in this report or require further information. This report does not constitute investment advice by Credit Suisse to the clients of the distributing financial institution, and neither Credit Suisse AG, its affiliates, and their respective officers, directors and employees accept any liability whatsoever for any direct or consequential loss arising from their use of this report or its content. No information or communication provided herein or otherwise is intended to be, or should be construed as, a recommendation within the meaning of the US Department of Labor's final regulation defining "investment advice" for purposes of the Employee Retirement Income Security Act of 1974, as amended and Section 4975 of the Internal Revenue Code of 1986, as amended, and the information provided herein is intended to be general information, and should not be construed as, providing investment advice (impartial or otherwise). Copyright © 2021 CREDIT SUISSE AG and/or its affiliates. All rights reserved.

When you purchase non-listed Japanese fixed income securities (Japanese government bonds, Japanese municipal bonds, Japanese government guaranteed bonds, Japanese corporate bonds) from CS as a seller, you will be requested to pay the purchase price only