

North America United States

Financial Banks

First Republic Bank

Reuters

Bloomberg FRC UN Exchange Ticker NYS FRC

Adjusting FY19 EPS Lower on Higher Exp./Shares, Lower NII, Reit. Hold

Reit. Hold, PT \$96: Core EPS -\$0.01/-\$0.05 to \$4.74/\$5.35 in FY18/19

FRC.N

We are reit. our Hold rating on shares of FRC, our price target of \$96, and on Friday, we adj. our core EPS by -\$0.01/-\$0.05 to \$4.74/\$5.35 in FY18/19, which include a greater tax benefit by \$0.035/sh in 2Q18, and our adjusted estimates for a higher avg. diluted share count, higher expenses, and lower core NII in FY19, which was only partially offset by higher core fee income, due to the 2Q18 beat. Our FY19 est. core exp. gr. rate of ~14% and core efficiency ratio of 63.6% appear appropriate given mgmt.'s revised guidance on exp., and comments regarding the core systems replacement and upward pressure from gr. in wealth mgmt., offset by the roll-off of the FDIC insurance surcharge.

Our take post call (see our First Read note dated July 13 for trends/analysis)

In our 2Q18 earnings preview, we had noted the risk of a worsening NIM/efficiency ratio guide given a tougher funding set-up in 2Q18, which was partly realized on the earnings call, with a NIM guide that was worse than consensus ests. (despite the 2Q18 beat on NIM), the increased expense gr. guidance to high-teens gr. in FY18, and the establishment of the 63%-64% efficiency ratio for FY19 (vs. a consensus ratio of 62.3% pre-print). Mgmt. guided NIM down 4 bps in 3Q18 and 4 bps (or a little less than this) in 4Q18, pointing to a NIM of 2.87%-2.89% in 4Q18, vs. cons. NIM of 2.90% pre-print, erasing the NIM beat in 2Q18 (2.95% reported vs. 2.92% for cons.). Given this NIM guidance, and the color that the roll-off of the FDIC surcharge exp. should be offset by core systems enhancement exp. and gr. in the wealth mgmt. business, we expect the consensus efficiency ratio to increase post the report. We view the mid-teens loan gr. guidance reiteration as conservative, as we expect nearly 20% loan HFI gr. in FY18. While mgmt. did note an increasing incidence of the big banks competing on loan structure (higher LTVs) that pressure sounds more anecdotal, and not a material threat to FRC's higher pace of loan gr. That said, while mgmt. did note the pipeline remains strong, it is weaker in business banking (due partially to lower expected capital call line activity) vs. the pipeline last quarter, and mgmt. noted the typical seasonal pattern for loan gr. to slow in 3Q, driving the guidance reiteration. Regarding capital, we pulled forward our expectation for a common equity raise to 1Q19, based on mgmt. commentary that it could be back in the market in the next few quarters, and increased the size of the offering we expect, given the lower tier 1 leverage ratio in our revised model by 4Q18 (8.36%).

Forecasts And Ratios 2017A 2018E 2019E Year End Dec 31 1.01 1.09A 1.18 10 EPS 1.20A 1.31 1 06 20 EPS 1.12 1.19 1.38 3Q EPS 1 34 1 26 1 48 40 EPS 4.53 4.74 5.35 FY EPS (USD) 21.1 18.3 20.6P/E 0.8 07 07 Dividend yield (%) Source: Deutsche Bank estimates, company data

Deutsche Bank Securities Inc.

Deutsche Bank does and seeks to do business with companies covered in its research reports. Thus, 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. DISCLOSURES AND ANALYST CERTIFICATIONS ARE LOCATED IN APPENDIX 1. MCI (P) 091/04/2018.



Date 16 July 2018 Results

Price at 13 Jul 2018 (USD)	97.74
Price Target (USD)	96.00
52-week range (USD)	105.17 - 84.96

Dave Rochester

Research Analyst (+1) 212 250-0025 dave.rochester@db.com

Meng Jiao

Associate Analyst (+1) 212 250-5363 meng.jiao@db.com

Stock & option liquidity data	
Market Cap (USD)	15,865.2
Shares outstanding (m)	162.3
Avg. daily volume ('000)	224,738
Source: Deutsche Bank	

Valuation

Our target of \$96 is based on the average of a P/E of 17.9x our FY19 core EPS est. and a P/TBV of 2.02x our 2Q19 TBV/sh est., a material premium on P/E vs. the industry P/E we expect one year out, to reflect stronger expected EPS growth vs. the group in FY19, and a modestly lower P/TBV vs. what we expect for the group one year out, to reflect the lower expected ROTCE for FRC vs. that we expect for the group, with continued multiple support stemming from the persistent market perception that FRC is a higher quality franchise (and possibly still a take-out candidate due to its quality and wealth mgmt. earnings stream), which should continue to bolster the valuation over the next year.

Risks

Upside risks: (1) Stronger growth than expected (AUM, loans, deposits), and (2) a material curve steepening. Downside risks: (1) stronger competitive pressures on loan structure in the market, which could drive slower loan gr. given FRC's more conservative credit culture, (2) weaker deposit gr., which could pressure NIM, and (3) falling real estate prices, or weakening market fundamentals in FRC's coastal urban markets.

Distributed on: 16/07/2018 09:11:31 GMT

Where we stand on the stock (cont. on p. 2, model p. 4-5, EPS variance p. 6)

We see more limited upside potential for FRC shares given the valuation premium in the context of our expectation for downside to consensus EPS in FY19 due to NIM/expense risk (we see the consensus efficiency ratio as too low in FY19), keeping us on the sidelines. We like the stronger EPS gr. in FY19, higher quality nature of the franchise, and larger wealth mgmt. EPS component vs. the group, supporting a premium valuation, but with the narrative including upside risk to expense est. in FY19, and with shares trading at a P/E of 18.3x FY19E, a ~6.5x premium vs. the \$50B+ asset banks in our coverage, we see this valuation, and our target valuation (which reflects a reduced premium on our expected group valuation) as fair, given the potential downside risk to consensus EPS, and the more limited upside potential to our growth estimates.

Guidance

NIM. 7/13: NIM guidance for 2.85%-2.95% for the rest of 2018, with 4 bps of compression in 3018, and slightly less pressure in 4018 (~2-3 bps down), with the annual average to be near the middle, to slightly above the middle, of the guidance range. Further NIM compression is weighted more towards the flattening of the yield curve vs. deposit inflows. The NIM guide assumes two more rate hikes (in Sep. and Dec., with some upside to the 10-Year UST). In 2Q18. FRC added termed FHLB funding with a cost of 2.75%-2.80% with a 2-3 year duration. Deposit pricing pressures are fairly standard across FRC's platform, and mgmt. noted competitors have been moving deposit costs higher post the June rate hike. Capital call line spreads have remained generally stable. Single family originations in 2Q18 were pricing at 3.70%, with recent locks slightly higher. 2018 multifamily originations were 3.90%, while CRE originations were 4.35%. Securities reinvestment yields are around 3.70%, and given these are generally in line with loan yields, these are not as attractive to FRC, given the bank can capture relationships with the loan gr. vs. adding securities. The spot rate for deposits at period-end 2018 was in the mid-0.40%s. Since 3Q15, the cost of liabilities beta is ~18%, and the cost of deposit beta is 24%.

Credit. <u>7/13</u>: Large banks are increasing pressure on structure in 2018, largely via higher LTVs. New origination LTVs at FRC for 2018: resi – 56%, multifamily – 50%, CRE – 47%. While standards are going lower for the competition, they are not bad yet, so the loan gr. guidance was not impacted by worsening standards.

Expenses. 7/13: Expect high-teens expense gr. for FY18 (vs. mid-to high teens given in the 1Q18 EPS call). Reiterated 63%-64% FY18 eff. ratio guidance, and expects that range to hold longer-term beyond FY18 as well, and will include the core systems replacement cost, and the ongoing shift of wealth mgmt. becoming a larger piece of the franchise. FRC hired 4 new teams in 2018, the pipeline for teams remains good, could see a slight decline in team hiring in 2H18 but still robust. The FDIC 4.5 bps surcharge for large banks equates to ~\$35M annually, which is expected to go away in FY19, and the savings will be used to invest in FRC's new core banking system, which will occur over the next few years. Mgmt. expects a \$15M-\$16M quarterly level for both the professional fees and advertising line items are not bad guarterly run rates going forward near-term, while the other expense line is expected to also remain near the 2018 level. 6/13: Crapo law could save some expense on the margin, but the bigger positive impact relates to increasing mgmt. efficiency via improving time allocation. Mgmt. noted expenses primarily reflect three categories: business banking, wealth mgmt., and the youth generation (PLP, Gradifi). Business banking requires the least investment, remains highly profitable. WM has costs associated with onboarding new teams, but capital requirements are low. The younger generation includes PLP which could take 15-18 months to reach profitability. Mgmt. has hired 3 new wealth teams in 1Q18, with another in April, and expects further hiring announcements in the future. 40: The wealth mgmt. group is growing ~30% vs. 20% for the bank, and operating at a 80%-85% efficiency ratio range. 30: FRC has 175 RMs, plans to add 24 through its internal training over the next 6-12 months.

Tax rate. <u>7/13</u>: Reiterated 19% as a good level for the effective tax rate for FY18. 2Q tax rates are generally lower due to more tax benefits related to

vesting of restricted stock awards (the majority of this occurs in 2Q). <u>4Q</u>: Tax rate outlook includes lower stock option transaction benefits in future periods in 2018/2019. Stock options have a 10-year life, expire mid-2020, at the start of Oct., there were 4M in options outstanding, now at 2.4M, and these could be exercised over the next 8-10 quarters in a more normalized pattern. Tax credit investments could be more moderate, tax credit amort. is ~\$25M-\$30M per quarter, and is included in the tax rate line.

Loans. <u>7/13</u>: Reiterated prior guidance of mid-teens loan growth for FY18, the loan pipeline remains strong. 2Q18 resi was 56% purchase, 44% refi. 2Q18 saw unusually strong capital call line activity from significant client activity in the PE/VC space (new and existing clients), this growth will likely not repeat in 3Q18. Utilization rates on business lines of credit are ~45%. Single family originations had a 59% weighted LTV in 2Q18, while multifamily and CRE originations have a 50% and 47% weighted LTV. Mgmt. indicated seeing bigger banks within FRC's coastal markets stretching more on credit terms (a \$3-4M 90% LTV loan was cited as an example), esp. in resi lending, which remains competitive, as pricing remains tight, and loan standards are declining. FRC's urban coastal markets are experiencing a supply shortage (with NYC being an exception, but mostly at the high end), which is FRC's biggest constraint on loan gr. <u>10</u>: Reiterated prior guidance of mid-teens loan growth for FY18. <u>40</u>: Expect deposit growth to cover loan growth, targeting a L/D ratio in the low 90%s.

Securities/HQLA. <u>7/13</u>: Reiterated 12% of assets, anything beyond that will be opportunistic. Mgmt. will work with regulators in the near future to determine the appropriate treatment for muni securities as it related to HQLA give recent reg reform.

Deposits. <u>7/13</u>: Deposit growth expected to be seasonally stronger in 2H18. 2Q18 deposits were impacted by significantly higher tax outflows (45% higher than in 2Q17), and driven primarily by consumer customers. On CD growth, FRC is seeing a mix of new money and clients moving funds from other products. Over 50% of CD clients have other deposit relationships. Mgmt. does expect some shift from checking into savings/CDs, however, checking remains ~63% of total deposits. Mgmt. does not manage to a certain loan/deposit ratio. <u>10</u>: Deposit gr. to fully fund loan gr., 2H tends to be seasonally stronger. A large portion of the \$1.7B of CD gr. in 1Q18 was in retail CDs, 50% are tied to a checking relationship, retail CDs are a product that will lead to further cross-selling, deepening relationships. Mgmt. indicated every \$1 of business loans results in ~\$4-\$4.50 of business dep. (54% of total dep.).

Gradifi. <u>7/13</u>: Mgmt. reiterated its outlook for profitability to be achieved in 2020, noted a new 529 college product added to the platform this April, and indicated it would add a tuition reimbursement component in 2019. Also, Gradifi Refi continues to ramp up. The household acquisition rate is ~\$8.5K-\$9K annually for Gradifi. <u>10</u>: Expenses were just under \$5M, mgmt. still believes \$17M-\$18M is a good annual run-rate. Mgmt. indicated profitability would occur past 2019, maybe in 2020, currently has a loss rate of \$15M-\$16M. <u>40</u>: Gradifi expense in FY17 was ~\$17M.

Capital. <u>7/13</u>: Mgmt. expects to be back in the capital markets in the next few quarters, FRC tends to toggle back and forth between preferred and common equity issuance, will use \$200M from the most recent preferred issuance to retire the Series E (7.0%) at the end of Dec. Mgmt. noted the preferred stock dividend should increase by ~\$9M in 2H18 due to the recent issuance.

Economic backdrop. <u>7/13</u>: Conditions are strong in FRC's coastal urban markets, and clients are active. Client demand has so far not been impacted by the SALT cap, but likely will not see that impact until next year when clients have to pay the incremental difference in taxes.

Figure 1: First Republic Bank (FRC) - Income Statement, Dollars in Thousands

	FY16	2Q17 6/30/17	FY17	1Q18 3/31/18	2Q18 6/30/18	3Q18 9/30/18	4Q18 12/31/18	FY18	FY19
	Act.	Act.	Act.	Act.	Act.	Est.	Est.	Est.	Est.
Reported Net Interest Income	\$1,817,162	\$531,964	\$2,151,463	\$587,758	\$611,693	\$631,822			\$2,832,643
Non-Core Net Interest Income	5,900	0	-	0	0	0	0	~	(
Core Net Interest Income Q/Q %	1,811,262 20.1%	531,964 6.5%	2,151,463 18.8%	587,758 3.3%	611,693 4.1%	631,822 3.3%	653,776 3.5%	2,485,049 15.5%	2,832,643 14.0%
	47,192	23,938							83,634
Provision Expense			60,181	13,000	19,370	16,132	20,328		
Reported Non-Interest Income Non-Core Non-Interest Income	394,812 1,055	109,372 -602	460,461 4,831	133,102 10,700	132,421	138,391 0	152,729 0		638,214
Core Non-Interest Income	393,757	109,974	455,630	122,402	133,448	138,391	152,729	,	638,214
Q/Q %	21.4%	6.9%	15.7%	-6.1%	9.0%	3.7%	10.4%	20.0%	16.7%
Investment Advisory Fees	224,626	68,819	282,868	78,117	82,925	88,371	100,942	350,355	427,67
Brokerage and Investment Fees	31,868	6,965	32,221	10,532	8,826	9,003	9,183		38,60
Trust Fees	12,365	-	13,658	3,489	3,606	3,713	3,843		16,59
Foreign Exchange Fee Income	22,406	7,081 5,655	27,691	7,397	9,547	9,929	11,418		42,72
Deposit Customer Fees Loan Servicing Fees, Net	20,699 13,465	3,655 3,577	22,633 13,800	5,985 3,519	6,280 3,186	6,275 3,223	6,135 3,249	24,675 13,177	24,553 13,310
Loan and Related Fees	13,403	3,377	13,800	3,617	4,134	4,258	4,215	16,224	17,98
Income from Inv. In Life Insurance	48,119	9,538	37,874	9,477	9,612	9,708	9,805		40,21
Gains on Sale of Loans	4,828	841	9,233	689	4,045	2,600	2,600	9,934	10,930
Securities Gains/(Losses)	1,055	-602	-833	9,197	-1,027	0	0	8,170	(
Other Income	1,284	675	8,304	1,083	1,287	1,313	1,339	5,022	5,62
Total Revenue	2,211,974	641,336	2,611,924	720,860	744,114	770,213	806,505	3,041,692	3,470,85
Non-Core Revenue	6,955	-602	4,831	10,700	-1,027	0	0	- /	(
Core Revenue	2,205,019	641,938	2,607,093	710,160	745,141	770,213	806,505	3,032,019	3,470,85
Q/Q %	20.4%	6.5%	18.2%	1.6%	4.9%	3.4%	4.7%	16.3%	14.5%
Reported Non-Interest Expense	1,337,186	397,100	1,639,541	461,581	472,557	489,393	508,077	1,931,608	2,208,643
Non-Core Non-Interest Expense	0	0	0	0	0	0	0		2,200,01
Core Non-Interest Expense	1,337,186	397,100	1,639,541	461,581	472,557	489,393	508,077	1,931,608	2,208,64
Q/Q %	22.0%	4.9%	22.6%	3.6%	2.4%	3.6%	3.8%	17.8%	14.3%
Salaries and Related Benefits	763,625	221,929	930,908	277,024	271,935	286,891	296,933	1,132,783	1,326,532
Occupancy	119,139	33,631	136,746	36,172	37,216	38,332	39,099	150,820	164,374
Information Systems	153,207	51,053	208,625	58,964	59,530	61,316	63,155		285,81
Advertising and Marketing	32,783	11,560	48,398	11,928	15,120	14,818	16,299		67,54
Professional Fees FDIC and Other Deposit Assessments	52,740 44,200	-	56,950 55,792	13,414 15,532	15,588 16,064	15,744 15,188	17,161 16,220	61,907 63,004	74,39 35,45
Amortization Expense	25,002	5,293	20,625	4,472	4,472	4,472	4,472	16,248	11,87
Other Expense	146,490	-	181,497	44,075	52,632	52,632	54,737	204,076	242,65
Pre-Tax Pre-Provision (PTPP)	874,788	244,236	972,383	259,279	271,557	280,820	298,428	1,110,084	1,262,21
Total Net Non-Core Revenue/(Expense)	6,955	-602	4,831	10,700	-1,027	200,020	270,420		1,202,21
Core PTPP	867,833	244,838	967,552	248,579	272,584	280,820	298,428	1,100,411	1,262,21
Q/Q %	17.9%	9.3%	11.5%	-2.0%	9.7%	3.0%	6.3%	13.7%	14.7%
Income/(Loss) Before Income Taxes	827,596	220,298	912,202	246,279	252,187	264,688	278,100	1,041,254	1,178,580
Reported Income Tax Expense	154,168	33,698	154,542	47,196	42,406	50,908	53,792	194,302	223,39
Core Income Tax Expense	154,168	,		47,196	42,400	50,908	53,792 53,792	<i>.</i>	223,39
Effective Tax Rate	18.6%	15.3%	16.9%	19.2%	16.8%	19.2%	19.3%	<i>,</i>	19.0%
Preferred Dividends	68,589	14,344	58,040	12,222	12,163	17,113	16,249	57,746	51,15
Net Income Available to Common	604,839	172,256		186,861	197,618	196.668	208,060		904,03
Core Net Income Available to Common	600,840	-		179,532	197,018 198,321	190,008 196,668	208,000 208,060		904,03 904,03
Avg. Diluted Shares Outstanding	154,095	162,335	162,340	164,839	165,013	165,479	165,708	165,260	168,87
Diluted EPS	\$3.92	\$1.06	\$4.31	\$1.13	\$1.20	\$1.19	\$1.26	\$4.78	\$5.3
Core EPS	\$3.90			\$1.09	\$1.20	\$1.19	\$1.26		\$5.3
Q/Q %	24.1%	5.0%	16.3%	-18.6%	10.3%	-1.1%	5.6%	4.4%	13.0%
Core EPS - No Additional Rate Hikes	\$3.90 24.1%				\$1.20	\$1.17	\$1.24		\$5.2
Q/Q %	24.1%	5.0%	16.3%	-18.6%	10.3%	-2.7%	5.7%	3.6%	11.19

Source: Deutsche Bank Research, Company Reports/Conference Calls

Figure 2: First Republic Bank (FRC) - Key	Performance Indicators, Dollars in	Millions (Unless Otherwise Noted)
inguio 2. Thornopublic built (TTO) Troy		

	FY16	2Q17	FY17	1Q18	2Q18	3Q18	4Q18 12/31/18	FY18	FY19
	Act.	6/30/17 Act.	Act.	3/31/18 Act.	6/30/18 Act.	9/30/18 Est.	Est.	Est.	Est.
<u>Capital</u>									
TBV/Share	\$35.35	\$37.83	\$40.43	\$41.46	\$42.15	\$43.14	\$44.24	\$44.24	\$49.9
TBV/Share Q/Q %	17.2%	1.8%	14.4%	2.5%	1.7%	2.4%	2.5%	9.4%	12.89
TBV/Share Y/Y %	17.2%	16.3%	14.4%	11.6%	11.4%	10.9%	9.4%	9.4%	12.89
TCE Ratio	7.5%	7.4%	7.5%	7.5%	7.3%	7.2%	7.2%	7.2%	7.29
Common Equity Tier 1 Ratio	10.8%	10.7%	10.6%	10.5%	10.2%	10.1%	10.0%	10.0%	10.19
Tier 1 Leverage Ratio	9.4%	9.0%	8.9%	8.6%	8.8%	8.5%	8.4%	8.4%	8.19
Tier 1 Capital Ratio	13.1%	12.5%	12.2%	11.8%	11.9%	11.7%	11.6%	11.6%	11.39
Total Capital Ratio	14.5%	14.5%	14.1%	13.7%	13.7%	13.5%	13.3%	13.3%	12.99
Dividends Per Share	\$0.64	\$0.17	\$0.67	\$0.17	\$0.18	\$0.18	\$0.18	\$0.71	\$0.8
Dividend Payout Ratio (On Core EPS)	16.4%	16.0%	14.8%	15.6%	15.0%	15.1%	14.3%	15.0%	15.09
<u>Profitability</u>									
Core ROTCE	12.57%	11.77%	12.40%	10.88%	11.73%	11.51%	11.86%	11.56%	11.61
Core ROCE	11.56%	11.00%	11.62%	10.26%	11.09%	10.90%	11.26%	10.95%	11.13
Core ROE	10.62%	10.32%	10.81%	9.78%	10.46%	10.23%	10.51%	10.25%	10.49
Core ROTA	1.05%	0.98%	1.02%	0.90%	0.95%	0.91%	0.92%	0.92%	0.89
Core ROA	1.02%	0.96%	1.00%	0.88%	0.94%	0.89%	0.90%	0.90%	0.88
Core PTPP/Avg. Tang. Assets	1.36%	1.29%	1.24%	1.17%	1.23%	1.19%	1.22%	1.20%	1.18
Core PTPP/Avg. Loans HFI	1.81%	1.76%	1.69%	1.55%	1.61%	1.59%	1.62%	1.59%	1.55
Core Efficiency Ratio	59.5% 2.01%	61.0%	62.1%	64.4%	62.8% 2.09%	63.0%	62.4% 2.04%	63.2%	63.3
Core G&A/Avg. Tang. Asset Ratio	2.01%	2.02%	2.05%	2.11%	2.09%	2.03%	2.04%	2.07%	2.04
Net Interest Margin									
Core NIM	3.17%	3.16%	3.11%	2.97%	2.95%	2.92%	2.89%	2.91%	2.86
Reported NIM	3.20%	3.16%	3.13%	2.97%	2.95%	2.92%	2.89%	2.91%	2.86
Core Loan Yield	3.31%	3.39%	3.41%	3.42%	3.51%	3.62%	3.66%	3.58%	3.83
Cost of Deposits	0.14%	0.18%	0.22%	0.30%	0.36%	0.46%	0.53%	0.42%	0.69
Cost of Time Deposits	1.18%	1.24%	1.27%	1.42%	1.60%	1.78%	1.95%	1.73%	2.23
Credit									
NPAs+90DD/Loans+OREO	0.09%	0.08%	0.06%	0.08%	0.07%	0.08%	0.08%	0.08%	0.10
NPAs+90DD \$	49,020	45,314	37,656	48,895	50,920	60,032	62,674	62,674	90,85
NPAs+90DD Q/Q %	-36.95%	-12.34%	-23.18%	29.85%	4.14%	17.90%	4.40%	66.44%	44.96
NCOs/Avg. Loans	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00
NCOs Q/Q %	7.5%	19.9%	-65.1%	-113.7%	400.6%	-59.3%	106.9%	191.7%	65.2
Reserve/Loans HFI	0.59%	0.59%	0.58%	0.58%	0.57%	0.58%	0.58%	0.58%	0.59
Reserve Release/(Build) EPS Impact	\$1.17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.0
Provision/NCOs	25.5x	39.3x	93.0x	84.4x	25.1x	51.4x	31.3x	36.5x	26.8
Provision/Avg. Loans Reserve/NPAs+90DD	0.10% 625%	0.17% 747%	0.11% 972%	0.08% 775%	0.11% 780%	0.09% 688%	0.11% 691%	0.10% 691%	0.10 565
	02370	/4/70	97270	11370	780%	08870	09170	09170	505
Balance Sheet Growth	19.00/	7.10	20.90/	2 70	C 10/	2.00/	4 40/	10.20/	17.0
Loans HFI Q/Q % - Organic Loans HFS Q/Q %	18.0%	7.1%	20.8%	3.7%	6.1%	3.8%	4.4%	19.2%	17.0
	736.5%	13.5%	-78.5%	682.7%	-93.2%	950.0%	-20.0%	347.8%	-22.4
Total Loans Q/Q %	18.8%	7.1%	20.1%	4.7%	5.0%	4.4%	4.2%	19.7%	16.8
Avg. Total Loans Q/Q %	17.1% 22.4%	5.0% 3.4%	19.5% 17.6%	4.7% 3.4%	5.5% 2.1%	0.0% 4.2%	0.0% 4.3%	0.0% 14.7%	0.0 15.9
Deposits Q/Q % - Organic Core Deposits Q/Q % - Organic	22.4%	5.4% 2.9%	17.0%	0.9%	0.5%	4.2% 2.6%	4.3%	7.4%	9.2
DDA Q/Q % - Organic	23.5%	2.9% 9.1%	15.5%	4.3%	3.4%	1.5%	2.0%	11.7%	10.9
Avg. Total Deposits Q/Q %	24.0%	1.9%	17.3%	2.7%	2.6%	7.7%	4.2%	0.0%	0.0
Balance Sheet (Dollars in Millions)	22.170	1.770	17.570	2.170	2.070	7.770	7.270	0.070	0.0
Assets	\$73,278	\$80,978	\$87,781	\$90,224	\$93,851	\$97.486	\$100,932	\$100,932	\$115,99
Intangible Assets	316	305	290	286	282	277	273	273	20
Earning Assets	69,841	77,409	84,083	86,507	89,902	93,461	96,842	96,842	111,6
Interest-Earning Cash	2,108	2,295	2,297	3,840	3,993	3,794	3,414	3,414	3,0
Securities	15,318	17,152	18,858	16,788	16,715	17,402	18,102	18,102	20,6
Total Loans	52,416	57,962	62,928	65,878	69,194	72,265	75,325	75,325	87,9
Loans - HFI	52,008	57,760	62,840	65,192	69,147	71,774	74,933	74,933	87,6
Loans - HFS	407	202	88	686	47	491	393	393	3
Non-Int. Earning Assets	3,121	3,264	3,407	3,431	3,668	3,748	3,818	3,818	4,0
Liabilities	66,369	73,718	79,962	82,387	85,575	89,044	92,307	92,307	106,4
Deposits	58,602	63,294	68,919	71,255	72,772	75,814	79,062	79,062	91,6
Core Deposits	53,489	57,264	61,684	62,260	62,573	64,188	66,273	66,273	72,3
Time Deposits	5,113	6,030	7,235	8,995	10,199	11,626	12,789	12,789	19,2
Borrowings	6,811	9,393	10,072	10,172	11,923	12,310	12,287	12,287	13,7
Other Liabilities	956	1,031	972	960	881	920	959	959	1,1
Equity	6,909	7,260	7,818	7,837	8,276	8,442	8,625	8,625	9,5
Equity									8,3

Source: Deutsche Bank Research, Company Reports/Conference Calls

Figure 3: First Republic Bank (FRC) - EPS Variance, Dollars in Thousands

	2017	Actuals	2018	2018 E	Estimates (C	nay)	Cons		».	% C	nange	
	2Q17 6/30/17	1Q18 3/31/18	2Q18 6/30/18	2Q18 E 6/30/18 E	Actual Diff vs.	EPS	2Q18 6/30/18 Cons. Est.	Sou	# of			
	Act.	Act.	Act.	DB Est.	DB Est.	Impact			Ests.	Q/Q	Y/Y	
Diluted EPS*	\$1.06	\$1.13	\$1.20	\$1.17	\$0.03	\$0.030	\$1.17	F	22	\$0.07	\$0.14	
Core EPS	\$1.06	\$1.09	\$1.20	\$1.17	\$0.03	\$0.030				\$0.11	\$0.14	
Reported Net Interest Income	531,964	587,758	611,693	602,034	9,659	\$0.040	613,410	S	12	4.1%	15.09	
Non-Core Net Interest Income	0	0	0	0	0	\$0.000						
Core Net Interest Income	531,964	587,758	611,693	602,034	9,659	\$0.040				4.1%	15.0%	
Q/Q %	6.5%	3.3%	4.1%	2.4%		** ***		-				
Reported NIM	3.16%	2.97%	2.95%	2.94%	0.01%	\$0.005	2.92%	В	14	-0.02%	-0.219	
Avg. Earning Assets	73,818	82,671	85,821	85,626	196	\$0.006	86,349	F	10	3.8%	16.39	
Provision Expense	23,938	13,000	19,370	16,306	3,064	-\$0.013	15,269	В	15	49.0%	-19.19	
NPAs/Assets	0.06%	0.05%	0.05%	0.00%			NA			0.00%	0.009	
NCOs/Avg. Loans	0.00%	0.00%	0.00%	0.00%			0.01%	S	11	0.00%	0.009	
Reserve/Loans HFI	0.59%	0.58%	0.57%	0.58%	0.00%	\$0.000				-0.01%	-0.01	
Reported Non-Interest Income	109,372	133,102	132,421	130,221	2,200	\$0.009	129,541	F	16	-0.5%	21.19	
Non-Core Non-Interest Income	-602	10,700	-1,027	0	-1,027	-\$0.004						
Core Non-Interest Income	109,974	122,402	133,448	130,221	3,227	\$0.013				9.0%	21.3%	
Q/Q %	6.9%	-6.1%	9.0%	6.4%								
Non-Interest Inc. (Select Items)												
Investment Advisory Fees	68,819	78,117	82,925	81,662	1,263	\$0.005				6.2%	20.59	
Brokerage and Investment Fees	6,965	10,532	8,826	10,005	-1,179	-\$0.005				-16.2%	26.79	
Trust Fees	3,448	3,489	3,606	3,607	-1	\$0.000				3.4%	4.6%	
Foreign Exchange Fee Income	7,081	7,397	9,547	7,767	1,780	\$0.007				29.1%	34.89	
Deposit Customer Fees	5,655	5,985	6,280	6,279	1	\$0.000				4.9%	11.19	
Loan Servicing Fees, Net	3,577	3,519	3,186	3,511	-325	-\$0.001				-9.5%	-10.9	
Loan and Related Fees	3,375	3,617	4,134	3,726	408	\$0.002				14.3%	22.5%	
Income from Inv. In Life Insurance	9,538	9,477	9,612	9,572	40	\$0.000				1.4%	0.8%	
Gains on Sale of Loans	841	689	4,045	2,988	1,057	\$0.004						
Securities Gains/(Losses)	-602	9,197	-1,027	0	-1,027	-\$0.004				10.000		
Other Income	675	1,083	1,287	1,105	182	\$0.001				18.8%	90.79	
Total Revenue	641,336	720,860	744,114	732,255	11,859	\$0.049	742,205	S	10	3.2%	16.09	
Non-Core Revenue	-602	10,700	-1,027	0	-1,027	-\$0.004						
Core Revenue	641,938	710,160	745,141	732,255	12,886	\$0.054				4.9%	16.1%	
Q/Q %	6.5%	1.6%	4.9%	3.1%								
Reported Non-Interest Expense	397,100	461,581	472,557	464,410	8,147	-\$0.034	464,727	F	16	2.4%	19.09	
Non-Core Non-Interest Expense	0	0	0	0	0	\$0.000						
Core Non-Interest Expense	397,100	461,581	472,557	464,410	8,147	-\$0.034				2.4%	19.0%	
Q/Q %	4.9%	3.6%	2.4%	0.6%								
Core Efficiency Ratio	61.0%	64.4%	62.8%	62.8%			#N/A	###	###	-1.5%	1.8%	
Non-Interest Exp. (Select Items)												
Salaries and Related Benefits	221,929	277,024	271,935	277,024	-5,089	\$0.021				-1.8%	22.59	
Occupancy	33,631	36,172	37,216	36,895	321	-\$0.001				2.9%	10.79	
Information Systems	51,053	58,964	59,530	60,143	-613	\$0.003				1.0%	16.69	
Advertising and Marketing	11,560	11,928	15,120	13,121	1,999	-\$0.008				26.8%	30.89	
Professional Fees	12,236	13,414	15,588	13,682	1,906	-\$0.008				16.2%	27.49	
FDIC and Other Deposit Assessments	13,601	15,532	16,064	14,557	1,507	-\$0.006				3.4%	18.19	
Amortization Expense	5,293	4,472	4,472	4,472	0	\$0.000				0.0%	-15.5	
Other Expense	47,797	44,075	52,632	44,516	8,116	-\$0.034				19.4%	10.19	
Pre-Tax Pre-Provision (PTPP)	244,236	259,279	271,557	267,845	3,712	\$0.015				4.7%	11.29	
Total Net Non-Core Revenue/(Expense)	-602	10,700	-1,027	0	-1,027	\$0.004						
Core PTPP	244,838	248,579	272,584	267,845	4,739	-\$0.020				9.7%	11.39	
Q/Q %	9.3%	-2.0%	9.7%	7.8%								
Income/(Loss) Before Income Taxes	220,298	246,279	252,187	251,539	648	\$0.003	251,254	F	12	2.4%	14.59	
Reported Income Tax Expense	33,698	47,196	42,406	47,075			47,045	F	12			
Non-Core Income Tax Expense	0	0	0	0	0	\$0.000						
Core Income Tax Expense	33,698	47,196	42,406	47,075								
Core Effective Tax Rate	15.3%	19.2%	16.8%	18.7%	-1.90%	\$0.029	19.7%	S	8			
Preferred Dividends	14,344	12,222	12,163	12,163	1	\$0.000				-0.5%	-15.2	
Net Income Available to Common	172,256	12,222	12,103	192,302	5,316	\$0.000	193,623	F	17	5.8%	-13.2	
Core Net Income Available to Common	172,230	179,532	197,018 198,321	192,302 192,302	6,020	\$0.032 \$0.036	175,025	1.	1/	10.5%	14.77	
Avg. Diluted Shares Outstanding	162,335	164,839	165,013	164,981	32	\$0.036	164,954	s	10	174	2678	
	104,333	107,059	105,015	107,201	54	φ0.050	107,204	5	10	1/4	2010	

Appendix 1

Important Disclosures

*Other information available upon request

Disclosure checklist			
Company	Ticker	Recent price*	Disclosure
First Republic Bank	FRC.N	97.74 (USD) 13 Jul 18	2,14,15

Prices are current as of the end of the previous trading session unless otherwise indicated and are sourced from local exchanges via Reuters, Bloomberg and other vendors. Other information is sourced from Deutsche Bank, subject companies, and other sources. For disclosures pertaining to recommendations or estimates made on securities other than the primary subject of this research, please see the most recently published company report or visit our global disclosure look-up page on our website at https://research.db.com/Research/Disclosures/CompanySearch. Aside from within this report, important conflict disclosures can also be found at https://research.db.com/Research/Topics/Equities?topicId=RB0002 under the "Disclosures Lookup" and "Legal" tabs. Investors are strongly encouraged to review this information before investing.

Important Disclosures Required by U.S. Regulators

Disclosures marked with an asterisk may also be required by at least one jurisdiction in addition to the United States. See Important Disclosures Required by Non-US Regulators and Explanatory Notes.

- 2. Deutsche Bank and/or its affiliate(s) makes a market in equity securities issued by this company.
- 14. Deutsche Bank and/or its affiliate(s) has received non-investment banking related compensation from this company within the past year.
- 15. This company has been a client of Deutsche Bank Securities Inc. within the past year, during which time it received non-investment banking securities-related services.

Important Disclosures Required by Non-U.S. Regulators

Please also refer to disclosures in the Important Disclosures Required by US Regulators and the Explanatory Notes.

2. Deutsche Bank and/or its affiliate(s) makes a market in equity securities issued by this company.

For disclosures pertaining to recommendations or estimates made on securities other than the primary subject of this research, please see the most recently published company report or visit our global disclosure look-up page on our website at https://research.db.com/Research/Disclosures/Company?ric=FRC.N

Analyst Certification

The views expressed in this report accurately reflect the personal views of the undersigned lead analyst(s) about the subject issuer and the securities of the issuer. In addition, the undersigned lead analyst(s) has not and will not receive any compensation for providing a specific recommendation or view in this report. Dave Rochester



Historical recommendations and target price: First Republic Bank (FRC.N) (as of 7/13/2018)



2.	01/14/2016:	Hold, Target Price Change USD69.00 Dave Rochester	10.	01/17/2017:	Hold, Target Price Change USD99.00 Dave Rochester
3.	01/22/2016:	Hold, Target Price Change USD69.00 Swati Mittal**	11.	04/06/2017:	Hold, Target Price Change USD101.00 Dave Rochester
4.	05/09/2016:	Hold, Target Price Change USD73.00 Dave Rochester	12.	04/14/2017:	Hold, Target Price Change USD98.00 Dave Rochester
5.	10/03/2016:	Hold, Target Price Change USD83.00 Meng Jiao	13.	06/16/2017:	Hold, Target Price Change USD104.00 Dave Rochester
6.	10/10/2016:	Hold, Target Price Change USD85.00 Dave Rochester	14.	10/16/2017:	Hold, Target Price Change USD101.00 Dave Rochester
7.	11/08/2016:	Hold, Target Price Change USD82.00 Dave Rochester	15.	01/09/2018:	Hold, Target Price Change USD99.00 Dave Rochester
8.	12/01/2016:	Hold, Target Price Change USD87.00 Dave Rochester	16.	01/17/2018:	Hold, Target Price Change USD96.00 Dave Rochester

Equity rating key

Buy: Based on a current 12- month view of total share-holder return (TSR = percentage change in share price from current price to projected target price plus pro-jected dividend yield), we recommend that investors buy the stock.

Sell: Based on a current 12-month view of total shareholder return, we recommend that investors sell the stock

Hold: We take a neutral view on the stock 12-months out and, based on this time horizon, do not recommend either a Buy or Sell.

Newly issued research recommendations and target prices supersede previously published research.

Equity rating dispersion and banking relationships



Additional Information

The information and opinions in this report were prepared by Deutsche Bank AG or one of its affiliates (collectively "Deutsche Bank"). Though the information herein is believed to be reliable and has been obtained from public sources believed to be reliable, Deutsche Bank makes no representation as to its accuracy or completeness. Hyperlinks to third-party websites in this report are provided for reader convenience only. Deutsche Bank neither endorses the content nor is responsible for the accuracy or security controls of those websites.

If you use the services of Deutsche Bank in connection with a purchase or sale of a security that is discussed in this report, or is included or discussed in another communication (oral or written) from a Deutsche Bank analyst, Deutsche Bank principal may act as for its own account as agent for another or person.

Deutsche Bank may consider this report in deciding to trade as principal. It may also engage in transactions, for its own account or with customers, in a manner inconsistent with the views taken in this research report. Others within Deutsche Bank, including strategists, sales staff and other analysts, may take views that are inconsistent with those taken in this research report. Deutsche Bank issues a variety of research products, including fundamental analysis, equity-linked analysis, quantitative analysis and trade ideas. Recommendations contained in one type of communication may differ from recommendations contained in others, whether as a result of differing time horizons, methodologies, perspectives or otherwise. Deutsche Bank and/or its affiliates may also be holding debt or equity securities of the issuers it writes on. Analysts are paid in part based on the profitability of Deutsche Bank AG and its affiliates, which includes investment banking, trading and principal trading revenues.

Opinions, estimates and projections constitute the current judgment of the author as of the date of this report. They do not necessarily reflect the opinions of Deutsche Bank and are subject to change without notice. Deutsche Bank provides liquidity for buyers and sellers of securities issued by the companies it covers. Deutsche Bank research analysts sometimes have shorter-term trade ideas that may be inconsistent with Deutsche Bank's existing longer-term ratings. Some trade ideas for equities are listed as Catalyst Calls on the Research Website (https://research.db.com/Research/), and can be found on the general coverage list and also on the covered company's page. A Catalyst Call represents a high-conviction belief by an analyst that a stock will outperform or underperform the market and/or a specified sector over a time frame of no less than two weeks and no more than three months. In addition to Catalyst Calls, analysts may occasionally discuss with our clients, and with Deutsche Bank salespersons and traders, trading strategies or ideas that reference catalysts or events that may have a near-term or medium-term impact on the market price of the securities discussed in this report, which impact may be directionally counter to the analysts' current 12-month view of total return or investment return as described herein. Deutsche Bank has no obligation to update, modify or amend this report or to otherwise notify a recipient thereof if an opinion, forecast or estimate changes or becomes inaccurate. Coverage and the frequency of changes in market conditions and in both general and company-specific economic prospects make it difficult to update research at defined intervals. Updates are at the sole discretion of the coverage analyst or of the Research Department Management, and the majority of reports are published at irregular intervals. This report is provided for informational purposes only and does not take into account the particular investment objectives, financial situations, or needs of individual clients. It is not an offer or a solicitation of an offer to buy or sell any financial instruments or to participate in any particular trading strategy. Target prices are inherently imprecise and a product of the analyst's judgment. The financial instruments discussed in this report may not be suitable for all investors, and investors must make their own informed investment decisions. Prices and availability of financial instruments are subject to change without notice, and investment transactions can lead to losses as a result of price fluctuations and other factors. If a financial instrument is denominated in a currency other than an investor's currency, a change in exchange rates may adversely affect the investment. Past performance is not necessarily indicative of future results. Performance calculations exclude transaction costs, unless otherwise indicated. Unless otherwise indicated, prices are current as of the end of the previous trading session and are sourced from local exchanges via Reuters, Bloomberg and other vendors. Data is also sourced from Deutsche Bank, subject companies, and other parties.

The Deutsche Bank Research Department is independent of other business divisions of the Bank. Details regarding our organizational arrangements and information barriers we have to prevent and avoid conflicts of interest with respect to our research are available on our website (<u>https://research.db.com/Research/</u>) under Disclaimer.

Macroeconomic fluctuations often account for most of the risks associated with exposures to instruments that promise to pay fixed or variable interest rates. For an investor who is long fixed-rate instruments (thus receiving these cash flows), increases in interest rates naturally lift the discount factors applied to the expected cash flows and thus cause a loss. The longer the maturity of a certain cash flow and the higher the move in the discount factor, the higher will be the loss. Upside surprises in inflation, fiscal funding needs, and FX depreciation rates are among the most common adverse macroeconomic shocks to receivers. But counterparty exposure, issuer creditworthiness, client segmentation, regulation (including changes in assets holding limits for different types of investors), changes in tax policies, currency convertibility (which may constrain currency conversion, repatriation of profits and/or liquidation of positions), and settlement issues related to local clearing houses are also important risk factors. The sensitivity of fixed-income instruments to macroeconomic shocks may be mitigated by indexing the contracted cash flows to inflation, to FX depreciation, or to specified interest rates - these are common in emerging markets. The index fixings may - by construction - lag or mis-measure the actual move in the underlying variables they are intended to track. The choice of the proper fixing (or metric) is particularly important in swaps markets, where floating coupon rates (i.e., coupons indexed to a typically short-dated interest rate reference index) are exchanged for fixed coupons. Funding in a currency that differs from the currency in which coupons are denominated carries FX risk. Options on swaps (swaptions) the risks in addition the risks related typical to options to to rates movements

Derivative transactions involve numerous risks including market, counterparty default and illiquidity risk. The appropriateness of these products for use by investors depends on the investors' own circumstances, including their tax position, their regulatory environment and the nature of their other assets and liabilities; as such, investors should take expert legal and financial advice before entering into any transaction similar to or inspired by the contents of this publication. The risk of loss in futures trading and options, foreign or domestic, can be substantial. As a result of the high degree of leverage obtainable in futures and options trading, losses may be incurred that are greater than the amount of funds initially deposited – up to theoretically unlimited losses. Trading in options involves risk and is not suitable for all investors. Prior to buying or selling an option, investors must review the "Characteristics and Risks of Standardized Options", at http://www.optionsclearing.com/about/publications/character-risks.jsp. If you are unable to access the website, please contact your Deutsche Bank representative for a copy of this important document.

Participants in foreign exchange transactions may incur risks arising from several factors, including the following: (i) exchange rates can be volatile and are subject to large fluctuations; (ii) the value of currencies may be affected by numerous market factors, including world and national economic, political and regulatory events, events in equity and debt markets and changes in interest rates; and (iii) currencies may be subject to devaluation or government-imposed exchange controls, which could affect the value of the currency. Investors in securities such as ADRs, whose values are affected by the currency of an underlying security, effectively assume currency risk.

Unless governing law provides otherwise, all transactions should be executed through the Deutsche Bank entity in the investor's home jurisdiction. Aside from within this report, important conflict disclosures can also be found at https://research.db.com/Research/ on each company's research page. Investors are strongly encouraged to review this information before investing.

Deutsche Bank (which includes Deutsche Bank AG, its branches and affiliated companies) is not acting as a financial adviser, consultant or fiduciary to you or any of your agents (collectively, "You" or "Your") with respect to any information provided in this report. Deutsche Bank does not provide investment, legal, tax or accounting advice, Deutsche Bank is not acting as your impartial adviser, and does not express any opinion or recommendation whatsoever as to any strategies, products or any other information presented in the materials. Information contained herein is being provided solely on the basis that the recipient will make an independent assessment of the merits of any investment decision, and it does not constitute a recommendation of, or express an opinion on, any product or service or any trading strategy.

The information presented is general in nature and is not directed to retirement accounts or any specific person or account type, and is therefore provided to You on the express basis that it is not advice, and You may not rely upon it in making Your decision. The information we provide is being directed only to persons we believe to be financially sophisticated, who are capable of evaluating investment risks independently, both in general and with regard to particular transactions and investment strategies, and who understand that Deutsche Bank has financial interests in the

offering of its products and services. If this is not the case, or if You are an IRA or other retail investor receiving this directly from us, we ask that you inform us immediately.

In July 2018, Deutsche Bank revised its rating system for short term ideas whereby the branding has been changed to Catalyst Calls ("CC") from SOLAR ideas; the rating categories for Catalyst Calls originated in the Americas region have been made consistent with the categories used by Analysts globally; and the effective time period for CCs has been reduced from a maximum of 180 days to 90 days.

United States: Approved and/or distributed by Deutsche Bank Securities Incorporated, a member of FINRA, NFA and SIPC. Analysts located outside of the United States are employed by non-US affiliates that are not subject to FINRA regulations.

Germany: Approved and/or distributed by Deutsche Bank AG, a joint stock corporation with limited liability incorporated in the Federal Republic of Germany with its principal office in Frankfurt am Main. Deutsche Bank AG is authorized under German Banking Law and is subject to supervision by the European Central Bank and by BaFin, Germany's Federal Financial Supervisory Authority.

United Kingdom: Approved and/or distributed by Deutsche Bank AG acting through its London Branch at Winchester House, 1 Great Winchester Street, London EC2N 2DB. Deutsche Bank AG in the United Kingdom is authorised by the Prudential Regulation Authority and is subject to limited regulation by the Prudential Regulation Authority and Financial Conduct Authority. Details about the extent of our authorisation and regulation are available on request.

Hong Kong: Distributed by Deutsche Bank AG, Hong Kong Branch or Deutsche Securities Asia Limited (save that any research relating to futures contracts within the meaning of the Hong Kong Securities and Futures Ordinance Cap. 571 shall be distributed solely by Deutsche Securities Asia Limited). The provisions set out above in the "Additional Information" section shall apply to the fullest extent permissible by local laws and regulations, including without limitation the Code of Conduct for Persons Licensed or Registered with the Securities and Futures Commission.

India: Prepared by Deutsche Equities India Private Limited (DEIPL) having CIN: U65990MH2002PTC137431 and registered office at 14th Floor, The Capital, C-70, G Block, Bandra Kurla Complex Mumbai (India) 400051. Tel: + 91 22 7180 4444. It is registered by the Securities and Exchange Board of India (SEBI) as a Stock broker bearing registration nos.: NSE (Capital Market Segment) - INB231196834, NSE (F&O Segment) INF231196834, NSE (Currency Derivatives Segment) INE231196834, BSE (Capital Market Segment) INB011196830; Merchant Banker bearing SEBI Registration no.: INM000010833 and Research Analyst bearing SEBI Registration no.: INH000001741. DEIPL may have received administrative warnings from the SEBI for breaches of Indian regulations. The transmission of research through DEIPL is Deutsche Bank's determination and will not make a recipient a client of DEIPL. Deutsche Bank and/or its affiliate(s) may have debt holdings or positions in the subject company. With regard to information on associates, please refer to the "Shareholdings" section in the Annual Report at: https://www.db.com/ir/en/annual-reports.htm.

Japan: Approved and/or distributed by Deutsche Securities Inc.(DSI). Registration number - Registered as a financial instruments dealer by the Head of the Kanto Local Finance Bureau (Kinsho) No. 117. Member of associations: JSDA, Type II Financial Instruments Firms Association and The Financial Futures Association of Japan. Commissions and risks involved in stock transactions - for stock transactions, we charge stock commissions and consumption tax by multiplying the transaction amount by the commission rate agreed with each customer. Stock transactions can lead to losses as a result of share price fluctuations and other factors. Transactions in foreign stocks can lead to additional losses stemming from foreign exchange fluctuations. We may also charge commissions and fees for certain categories of investment advice, products and services. Recommended investment strategies, products and services carry the risk of losses to principal and other losses as a result of changes in market and/or economic trends, and/or fluctuations in market value. Before deciding on the purchase of financial products and/or services, customers should carefully read the relevant disclosures, prospectuses and other documentation. "Moody's", "Standard & Poor's", and "Fitch" mentioned in this report are not registered credit rating agencies in Japan unless Japan or "Nippon" is specifically designated in the name of the entity. Reports on Japanese listed companies not written by analysts of DSI are written by Deutsche Bank Group's analysts with the coverage companies specified by DSI. Some of the foreign securities stated on this report are not disclosed according to the Financial Instruments and Exchange Law of Japan. Target prices set by Deutsche Bank's equity analysts are based on а 12-month forecast period..

South Africa: Deutsche Bank AG Johannesburg is incorporated in the Federal Republic of Germany (Branch Register
NumberNumberinSouthAfrica:1998/003298/10).

Singapore: This report is issued by Deutsche Bank AG, Singapore Branch or Deutsche Securities Asia Limited, Singapore Branch (One Raffles Quay #18-00 South Tower Singapore 048583, +65 6423 8001), which may be contacted in respect of any matters arising from, or in connection with, this report. Where this report is issued or promulgated by Deutsche Bank in Singapore to a person who is not an accredited investor, expert investor or institutional investor (as defined in the applicable Singapore laws and regulations), they accept legal responsibility to such person for its contents.

Taiwan: Information on securities/investments that trade in Taiwan is for your reference only. Readers should independently evaluate investment risks and are solely responsible for their investment decisions. Deutsche Bank research may not be distributed to the Taiwan public media or quoted or used by the Taiwan public media without written consent. Information on securities/instruments that do not trade in Taiwan is for informational purposes only and is not to be construed as a recommendation to trade in such securities/instruments. Deutsche Securities Asia Limited, Taipei Branch may not execute transactions for clients in these securities/instruments.

Qatar: Deutsche Bank AG in the Qatar Financial Centre (registered no. 00032) is regulated by the Qatar Financial Centre Regulatory Authority. Deutsche Bank AG - QFC Branch may undertake only the financial services activities that fall within the scope of its existing QFCRA license. Its principal place of business in the QFC: Qatar Financial Centre, Tower, West Bay, Level 5, PO Box 14928, Doha, Qatar. This information has been distributed by Deutsche Bank AG. Related financial products or services are only available only to Business Customers, as defined by the Qatar Financial Centre Regulatory Authority.

Russia: The information, interpretation and opinions submitted herein are not in the context of, and do not constitute, any appraisal or evaluation activity requiring a license in the Russian Federation.

Kingdom of Saudi Arabia: Deutsche Securities Saudi Arabia LLC Company (registered no. 07073-37) is regulated by the Capital Market Authority. Deutsche Securities Saudi Arabia may undertake only the financial services activities that fall within the scope of its existing CMA license. Its principal place of business in Saudi Arabia: King Fahad Road, Al Olaya District, P.O. Box 301809, Faisaliah Tower - 17th Floor, 11372 Riyadh, Saudi Arabia.

United Arab Emirates: Deutsche Bank AG in the Dubai International Financial Centre (registered no. 00045) is regulatedby the Dubai Financial Services Authority. Deutsche Bank AG - DIFC Branch may only undertake the financial servicesactivities that fall within the scope of its existing DFSA license. Principal place of business in the DIFC: DubaiInternational Financial Centre, The Gate Village, Building 5, PO Box 504902, Dubai, U.A.E. This information has beendistributed by Deutsche Bank AG. Related financial products or services are available only to Professional Clients, asdefinedbytheDubaiFinancialServicesAuthority.

Australia and New Zealand: This research is intended only for "wholesale clients" within the meaning of the Australian Corporations Act and New Zealand Financial Advisors Act, respectively. Please refer to Australia-specific research disclosures and related information at https://australia.db.com/australia/content/research-information.html Where research refers to any particular financial product recipients of the research should consider any product disclosure statement, prospectus or other applicable disclosure document before making any decision about whether to acquire the product. In preparing this report, the primary analyst or an individual who assisted in the preparation of this report has likely been in contact with the company that is the subject of this research for confirmation/clarification of data, facts, statements, permission to use company-sourced material in the report, and/or site-visit attendance. Without prior approval from Research Management, analysts may not accept from current or potential Banking clients the costs of travel, accommodations, or other expenses incurred by analysts attending site visits, conferences, social events, and the like. Similarly, without prior approval from Research Management and Anti-Bribery and Corruption ("ABC") team, analysts may not accept perks or other items of value for their personal use from issuers they cover.

Additional information relative to securities, other financial products or issuers discussed in this report is available upon

16 July 2018 Banks First Republic Bank



request. This report may not be reproduced, distributed or published without Deutsche Bank's prior written consent. Copyright © 2018 Deutsche Bank AG



Raj Hindocha Global Chief Operating Officer Research

Anthony Klarman Global Head of Debt Research Paul Reynolds Head of EMEA Equity Research

Andreas Neubauer Head of Research - Germany Spyros Mesomeris Global Head of Quantitative and QIS Research

Dave Clark

Head of APAC

Equity Research

International Production Locations

Deutsche Bank AG

Deutsche Bank Place Level 16 Corner of Hunter & Phillip Streets Sydney, NSW 2000 Australia Tel: (61) 2 8258 1234

Deutsche Bank AG London 1 Great Winchester Street

London EC2N 2EQ United Kingdom Tel: (44) 20 7545 8000 Deutsche Bank Securities Inc. 60 Wall Street New York, NY 10005 United States of America

Tel: (1) 212 250 2500

Deutsche Bank AG

Germany Tel: (49) 69 910 00

Mainzer Landstrasse 11-17

60329 Frankfurt am Main

Deutsche Bank AG

Filiale Hongkong International Commerce Centre, 1 Austin Road West,Kowloon, Hong Kong Tel: (852) 2203 8888

Deutsche Securities Inc.

2-11-1 Nagatacho Sanno Park Tower Chiyoda-ku, Tokyo 100-6171 Japan Tel: (81) 3 5156 6770

Steve Pollard Head of Americas Research Global Head of Equity Research

> Pam Finelli Global Head of Equity Derivatives Research

Michael Spencer Head of APAC Research

Global Head of Economics

/