



GREEN BANCORP

First Quarter 2017 Financial Results Presentation

NASDAQ: GNBC

April 27, 2017

Today's Speakers



- Manny Mehos – Chairman and Chief Executive Officer
- Geoff Greenwade – President and Bank Chief Executive Officer
- Terry Earley – Chief Financial Officer
- Donald Perschbacher – Executive Vice President and Corporate Chief Credit Officer



The following information contains, or may be deemed to contain, "forward-looking statements" (as defined in the U.S. Private Securities Litigation Reform Act of 1995) giving Green Bancorp, Inc.'s ("Green Bancorp") expectations or predictions of future financial or business performance or conditions. Most forward-looking statements contain words that identify them as forward-looking, such as "plan", "seek", "expect", "intend", "estimate", "anticipate", "believe", "project", "opportunity", "target", "goal", "growing", "continue", "positions," "prospects" or "potential," by future conditional verbs such as "will," "would," "should," "could" or "may", or by variations of such words or by similar expressions that relate to future events, as opposed to past or current events. By their nature, forward-looking statements are not statements of historical facts and involve risks and uncertainties because they relate to events and depend on circumstances that may or may not occur in the future. These statements give Green Bancorp's current expectation of future events or its future performance and do not relate directly to historical or current events or Green Bancorp's historical or future performance. As such, Green Bancorp's future results may vary from any expectations or goals expressed in, or implied by, the forward-looking statements included in this presentation, possibly to a material degree.

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In addition to factors previously disclosed in Green Bancorp's reports filed with the SEC and those identified elsewhere in this communication, the following factors among others, could cause actual results to differ materially from forward-looking statements: difficulties and delays in integrating the Green Bancorp and Patriot Bancshares, Inc. businesses or fully realizing cost savings and other benefits; business disruption following the proposed transaction; changes in asset quality and credit risk; the inability to sustain revenue and earnings growth; changes in interest rates and capital markets; inflation; customer borrowing, repayment, investment and deposit practices; customer disintermediation; the introduction, withdrawal, success and timing of business initiatives; competitive conditions; the inability to realize cost savings or revenues or to implement integration plans and other consequences associated with mergers, acquisitions and divestitures; economic conditions; and the impact, extent and timing of technological changes, capital management activities, and other actions of the Federal Reserve Board and legislative and regulatory actions and reforms.

Annualized, pro forma, projected and estimated numbers are used for illustrative purpose only, are not forecasts and may not reflect actual results.

First Quarter 2017 Highlights

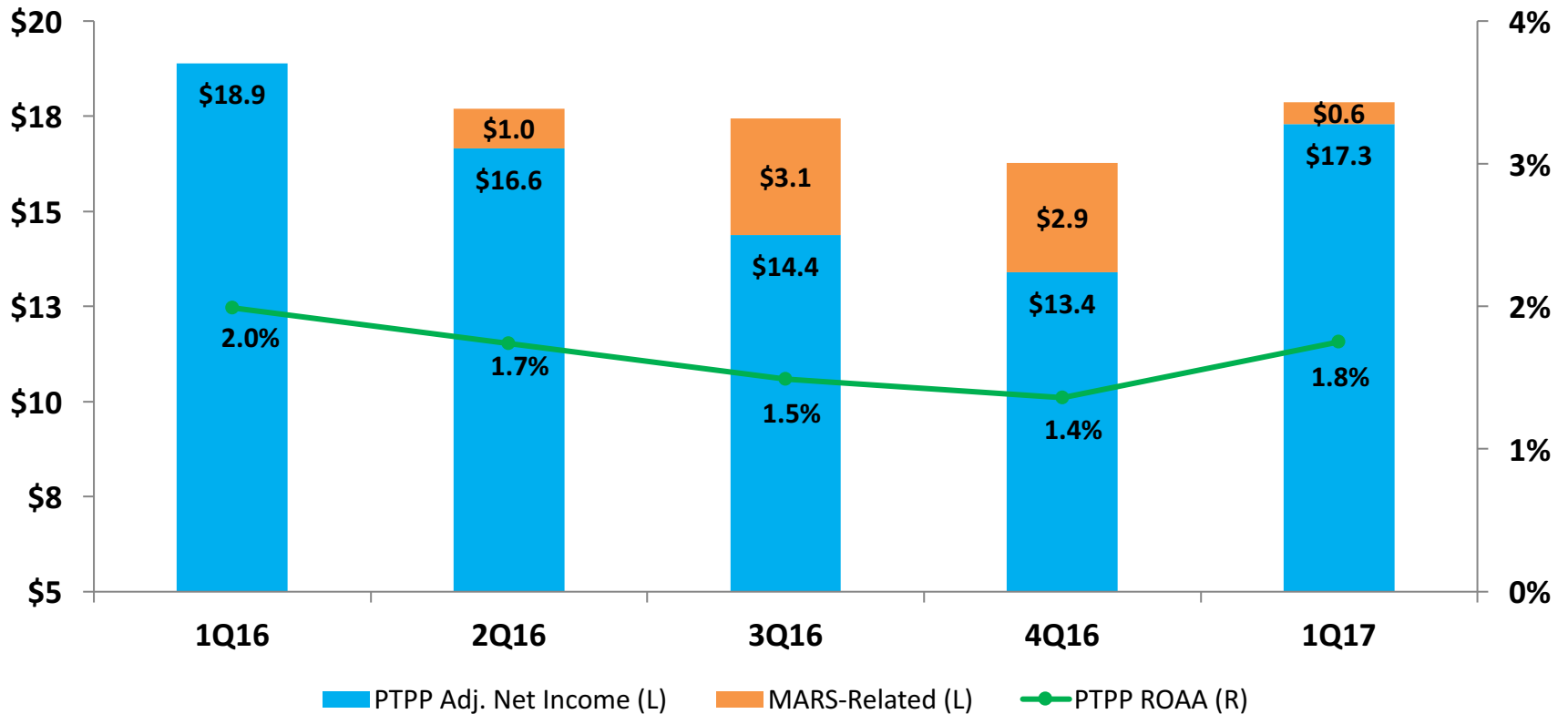


- First quarter 2017 net income totaled \$7.2 million, or \$0.19 per diluted common share
- Pre-tax pre-provision return on average assets of 1.75% for 1Q17, up from 1.36 in 4Q16
- Efficiency ratio of 54.64% for 1Q17, an improvement of 6.35% over the 4Q16 efficiency ratio of 60.99%
- Nonperforming assets were reduced by \$18.8 million or 17.7% during 1Q17
- Total energy loans have been reduced to \$93.7 million, comprised of \$76.3 million in loans held for investment (“HFI”) and \$17.4 million in loans held for sale (“HFS”), at March 31, 2017 from \$292.6 million at December 31, 2015
 - This represents energy exposure of 3.1% of total gross loans and 2.5% of loans held for investment (“HFI”), of which 0.5% is related to energy production loans
- Total deposits increased \$41.4 million or 5.0% on an annualized basis in 1Q17, with the growth bringing non-interest bearing deposits to 20.7% of total deposits
- Tangible book value per common share increased \$0.19 to \$9.25

Pre-Tax Pre-Provision Adjusted Net Income



- 1Q17 PTPP Adj. Net Income was impacted by \$0.4 million in MARS-related expenses in addition to a \$0.1 million loss on disposition of loans held for sale



\$ in millions

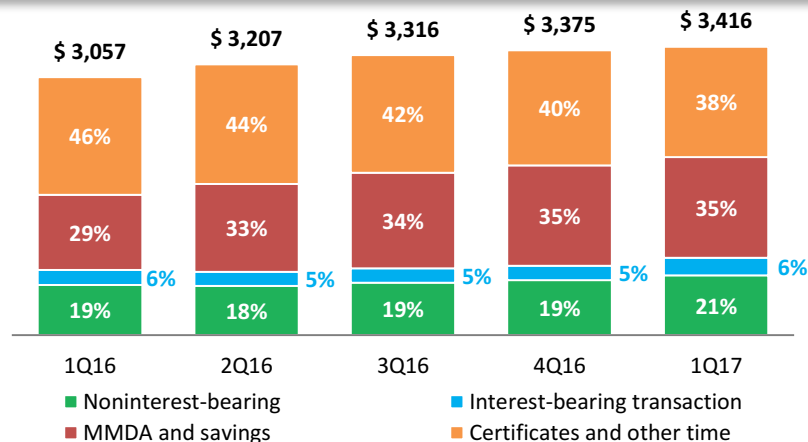
Deposits & Liquidity



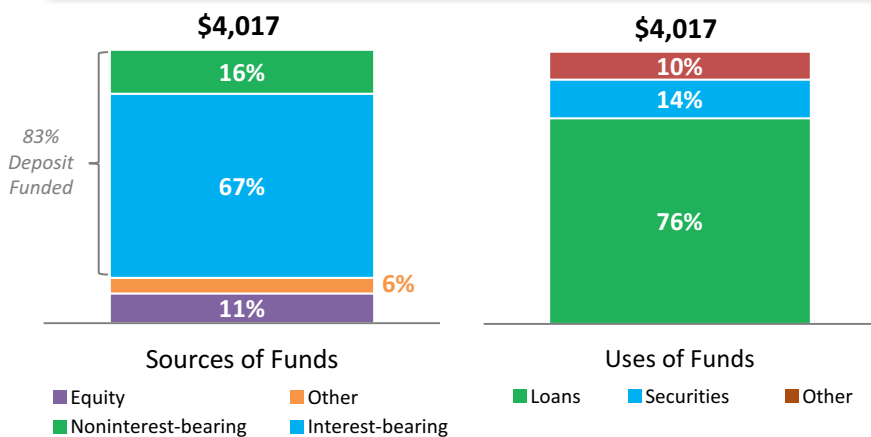
Highlights

- Deposits comprise ~83% of overall funding at March 31, 2017
 - Total deposits increased by \$41 million or 1.2% during 1Q17, to \$3.4 billion
 - Cost of deposits was 0.68% in 1Q17 compared to 0.66% in 4Q16
- Loans / deposits have averaged less than 100% over the past five fiscal years
- Non-interest bearing deposits were ~21% of deposits as of March 31, 2017, increasing by \$55 million during 1Q17

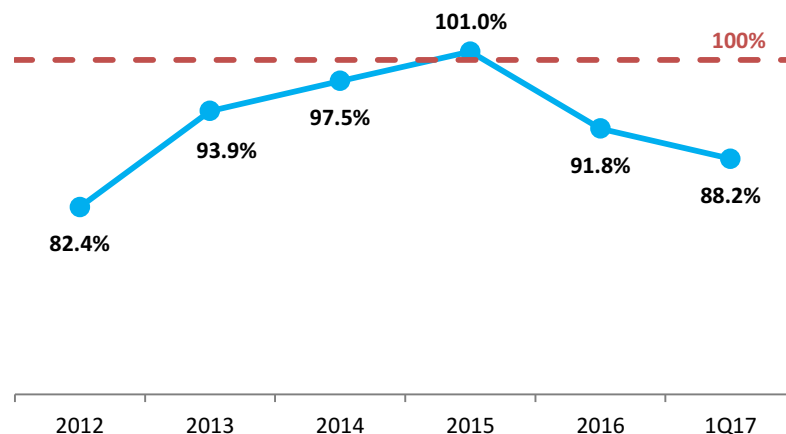
Deposit Composition



Funding Profile ¹



Loans / Deposits Ratio



\$ in millions, ¹ represents the 1Q17 mix of funding sources and the average assets in which those funds are invested as a percentage of average total assets

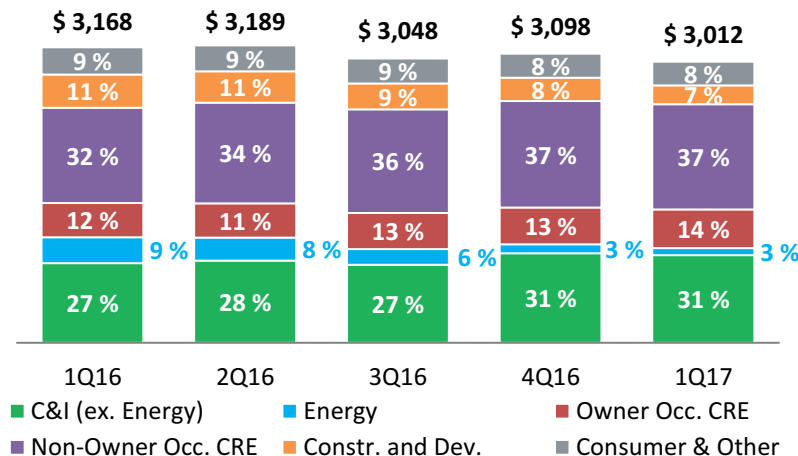
Loan Portfolio Overview



Highlights

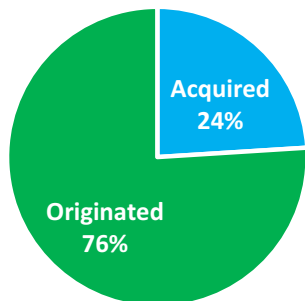
- Commercial-focused loan portfolio with 97% of the loan portfolio focused on non-energy loans
- In-footprint focus with portfolio primarily distributed across Houston (56%) and Dallas (21%)
- Diversified loan portfolio with no concentration to any single industry in excess of 10% of total loans
- Only 5% of the loan portfolio is classified
- Large number of lending relationships with no significant borrower concentration

Historical Loan Growth & Composition

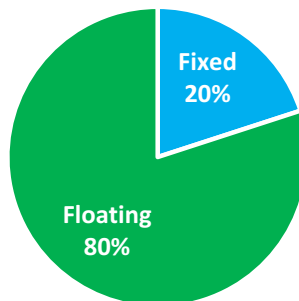


Loan Portfolio Detail as of March 31, 2017

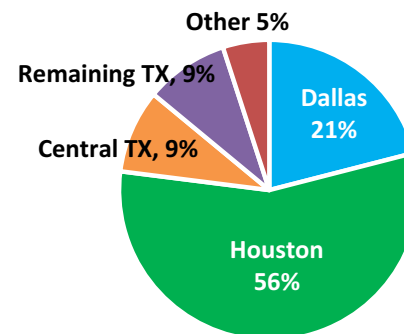
By Class



By Rate Sensitivity



By Regional Distribution*



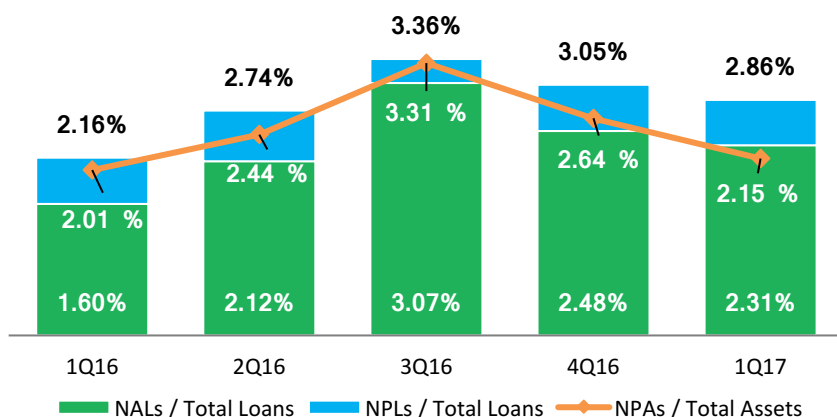
\$ in millions, loan balance and corresponding percentages exclude HFS loans, (*) Central TX denotes Austin, San Antonio and San Marcos

Asset Quality

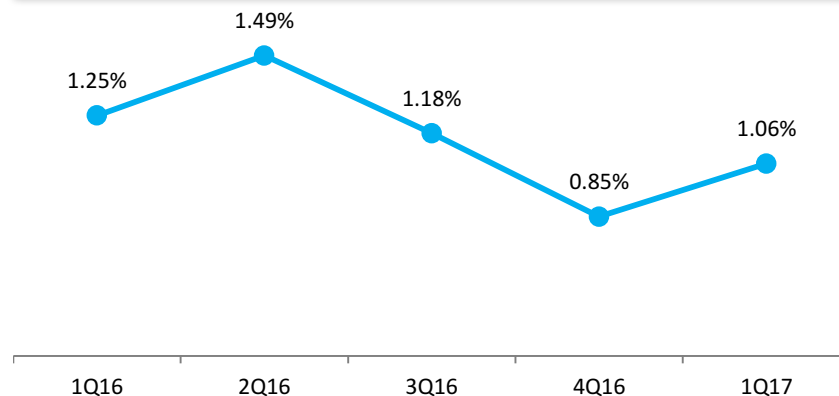


- Nonperforming assets (NPAs) totaled \$87.5 million or 2.15% of period end assets at March 31, 2017 compared to \$106.3 million or 2.64% of period end assets at December 31, 2016
- Allowance for loan losses was 1.06% of total loans at March 31, 2017, and the allowance for loan losses plus the acquired loan net discount to total loans adjusted for the acquired loan net discount was 1.30%
- Provision expense of \$6.1 million in the first quarter of 2017 reflects the addition of:
 - \$4.9 million in reserves related to energy loans
 - \$1.1 million charge-off due to the sale of an energy loan

Asset Quality



Allowance for Loan Losses Ratio ¹



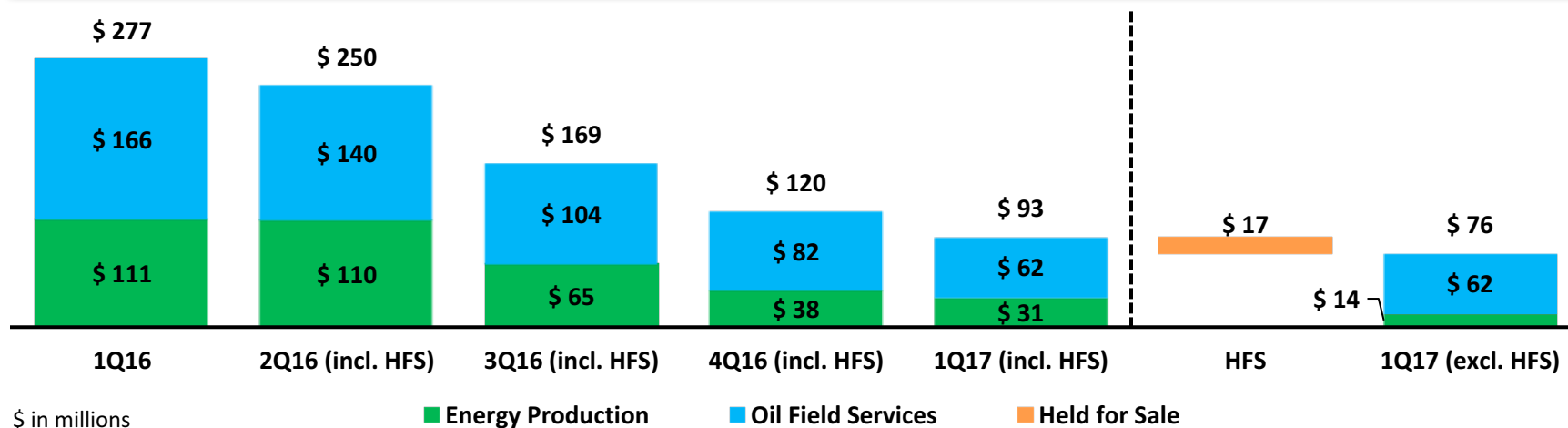
¹ Based on percentage of total gross loans held for investment

Overview of Energy Portfolio Progress



- The Managed Asset Reduction Strategy (MARS) was announced on April 28, 2016 during the first quarter conference call with \$277 million of energy loans.
- The primary goal of MARS was to de-risk the loan portfolio, remove balance sheet volatility and position the company for normalized earnings results and growth through an accelerated resolution of the company's energy assets, primarily via payoff or sale
 - Since inception, the program has resolved \$184 million of energy production and oil field services loans
- The company's total energy exposure stood at \$76 million or 2.5% of total loans as of March 31, 2017 (excluding \$17.4 million of loans held for sale), comprised of \$14.1 million in energy production loans and \$62.2 million in oil field services loans

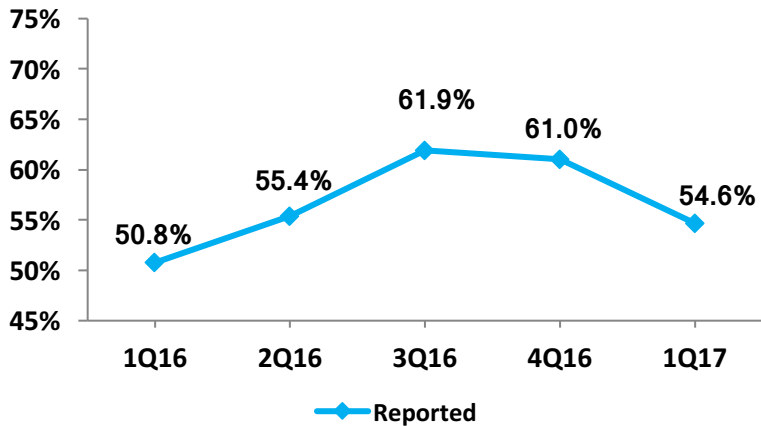
Energy Portfolio Resolution History



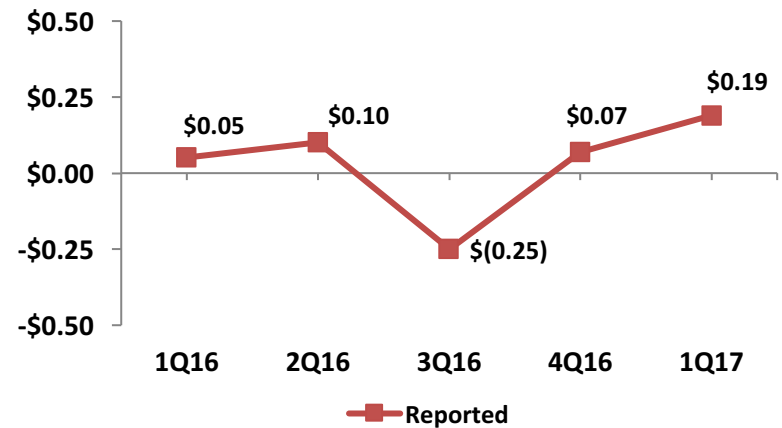
Performance Metrics



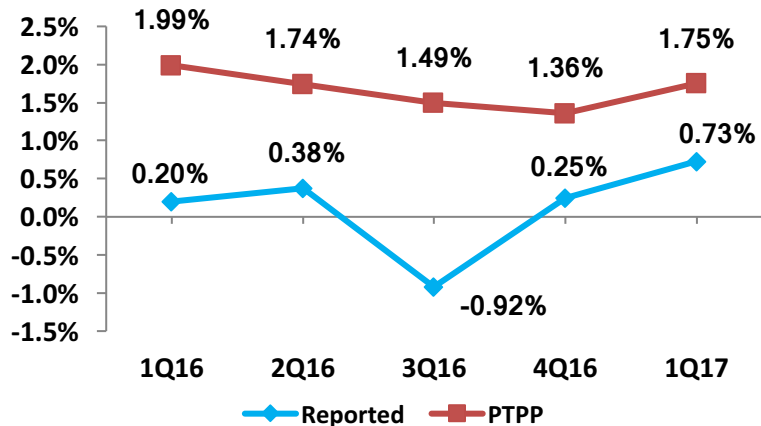
Efficiency Ratio



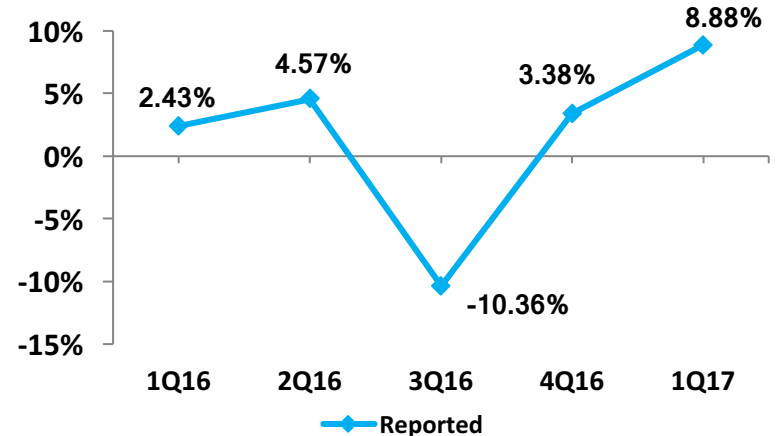
EPS



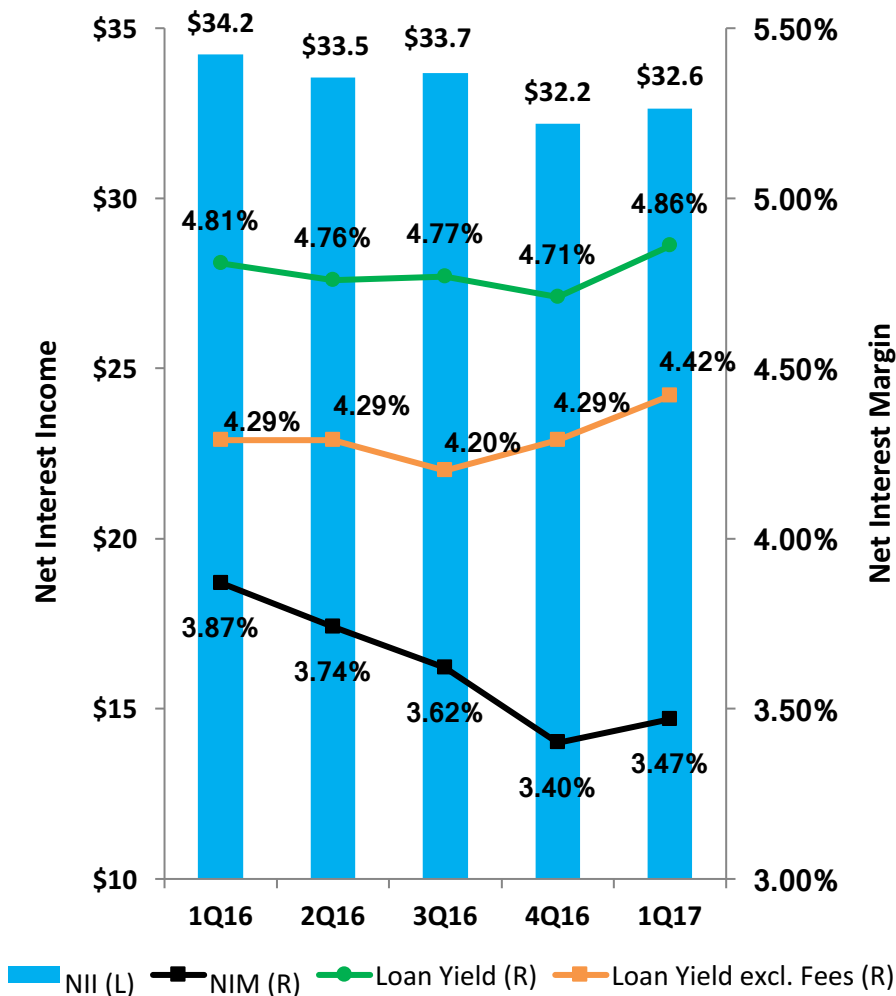
ROAA



ROATCE



Net Interest Income & Net Interest Margin



\$ in millions

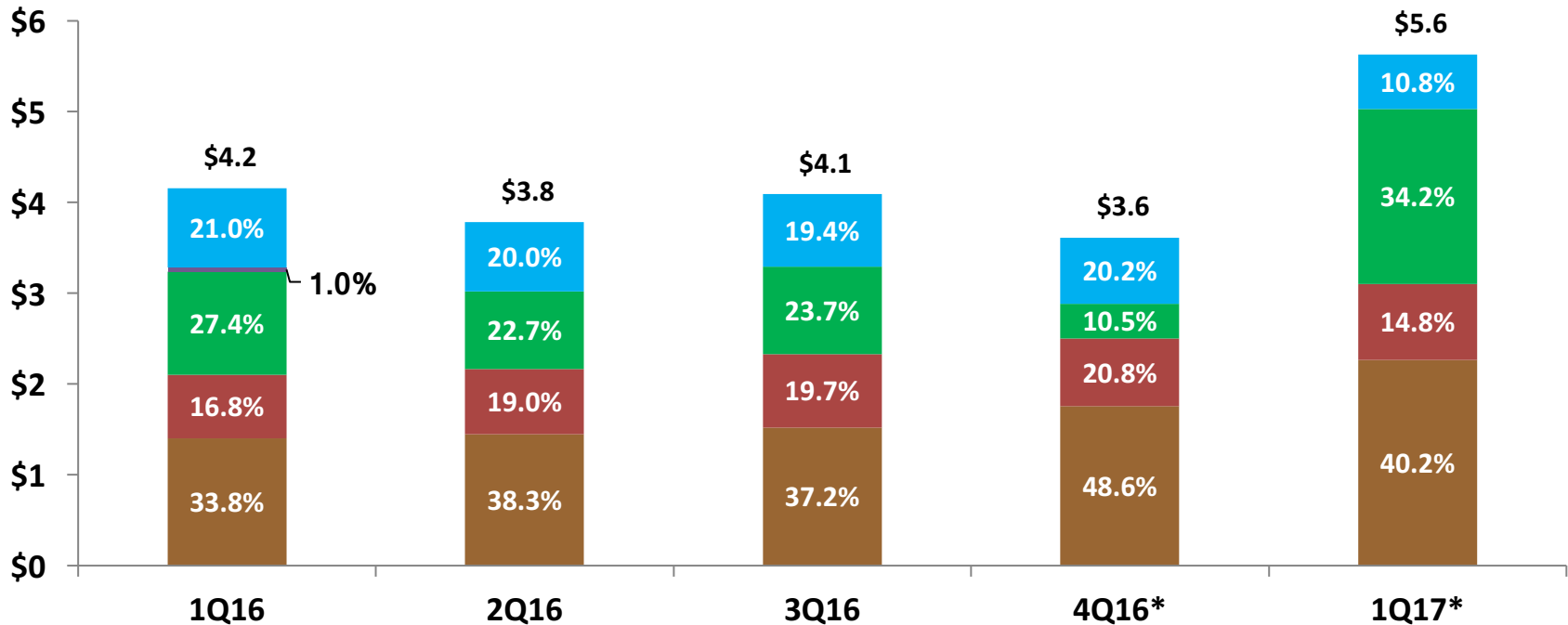
Highlights

- NIM increased 7 bps to 3.47% in 1Q17
- The primary factors impacting NIM were:
 - Fed Funds rate increase added 10 bps to the NIM
 - Investing of excess liquidity took the yield on the portfolio up 38 bps and added 10 bps to NIM
 - A full quarter of interest on the sub debt issued late in 4Q16 contracted the NIM by 6 bps
 - Lower purchase accounting accretion and less favorable earning asset mix accounted for the remaining 7 bps of NIM contraction
- Cost of deposits including noninterest-bearing was 0.68%, up 2 basis points compared to the prior quarter

Noninterest Income



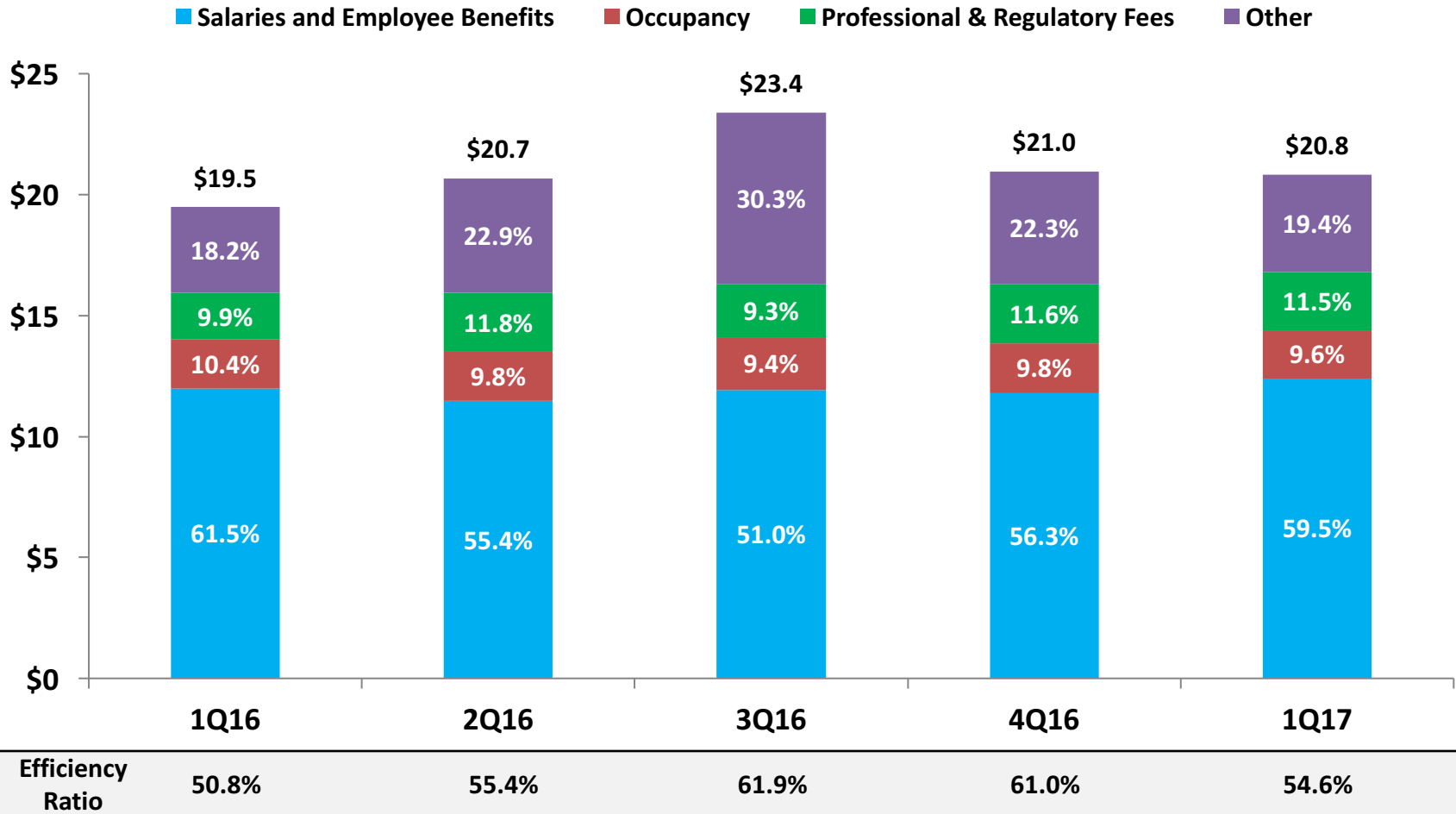
- Customer Service Fees
- Gain on sale of guaranteed portion of loans, net
- Gain on sale of available-for-sale securities, net
- Loan Fees
- Gain on sale of held-for-sale loans, net
- Other



(*) Excluding net loss on the sale of held-for-sale loans of \$1.4 million in 4Q16, and \$0.1 million in 1Q17, respectively

\$ in millions

Noninterest Expense

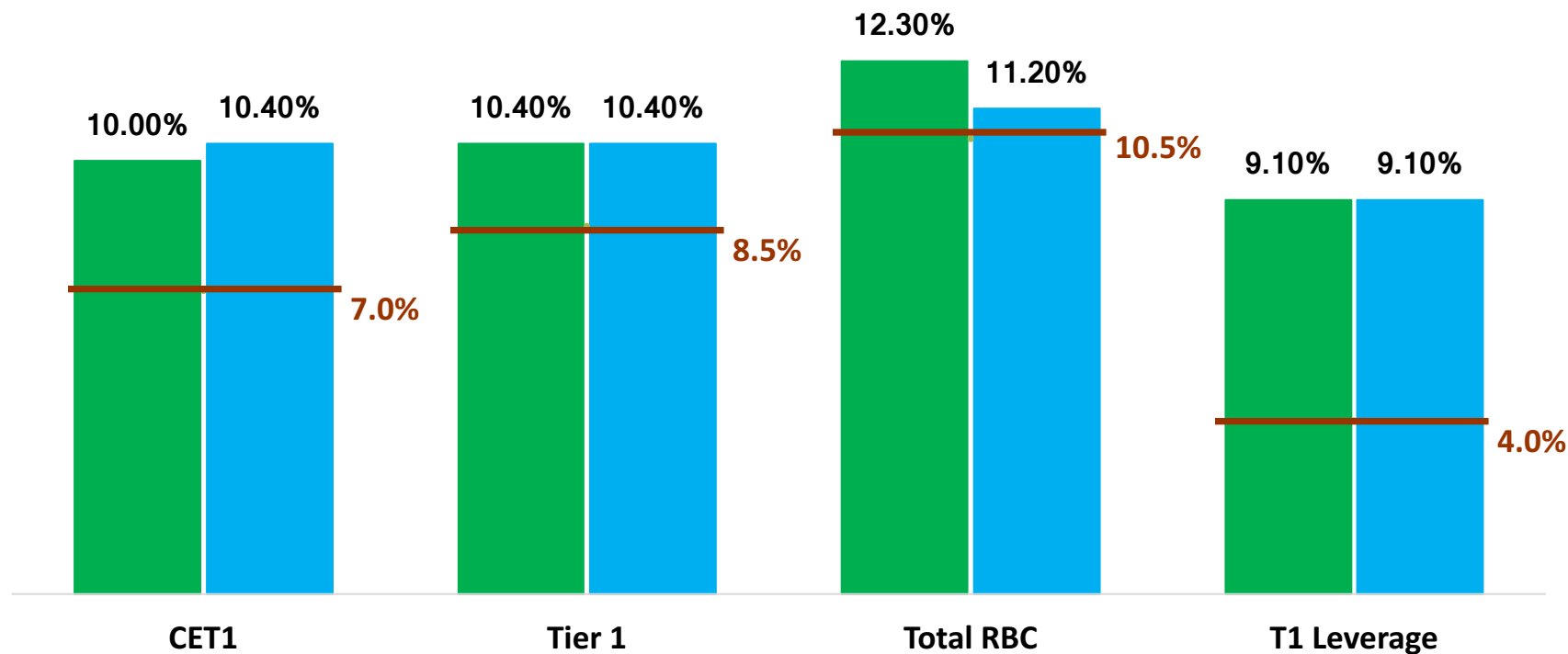


\$ in millions

Capital Position



■ Holding Company ■ Bank — Capital Adequacy Level *



Capital	\$345.3	\$355.3	\$358.3	\$355.3	\$424.9	\$383.3	\$358.3	\$355.3
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(*) When fully phased-in on January 1, 2019, the Basel III Capital Rules will require GNBC to maintain an additional capital conservation buffer of 2.5% CET1, effectively resulting in minimum ratios of 7.0% CET1, 8.5% Tier 1, 10.5% Total RBC and 4.0% minimum leverage ratio

\$ in millions



Question & Answer Session

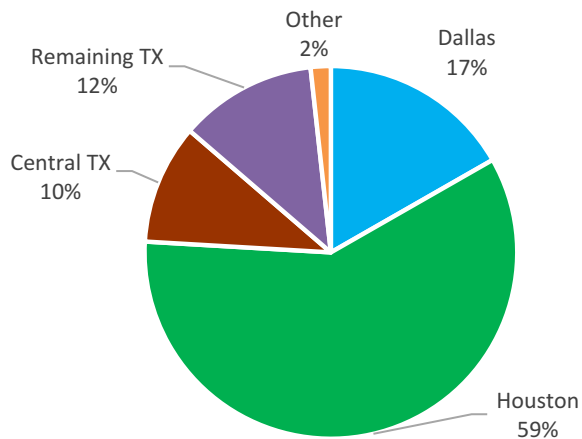


Appendix

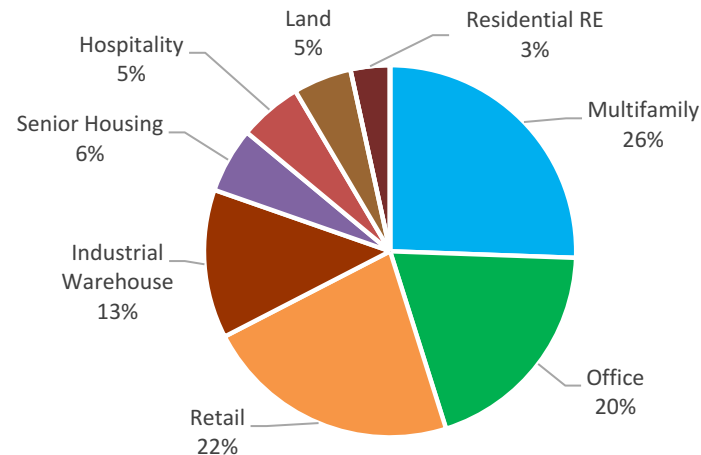
Commercial Real Estate (CRE) Portfolio Detail



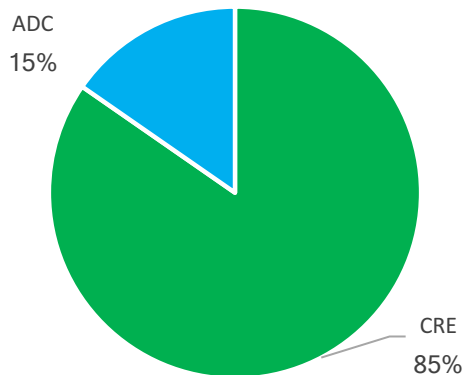
By Regional Distribution as of March 31, 2017 *



By Product as of March 31, 2017



CRE vs. ADC as of March 31, 2017



(* Central TX denotes Austin, San Antonio and San Marcos)

Note: Portfolio Detail excludes Farmland per CRE guidance regulations, though it is included in financial reporting

Financial Targets



- FY 2017 Net Interest Margin in the range of 3.65-3.75%
- FY 2017 Net Interest Income in the range of \$130-140 million
- FY 2017 Provision Expense in the range of \$14-16 million
- FY 2017 Noninterest Income in the range of \$18-21 million
 - Expect the quarterly run rate to be ~\$5 million through the remainder of 2017
- FY 2017 Noninterest Expense in the range of \$80-84 million
 - Expect the quarterly run rate to be ~\$20-21 million through the remainder of 2017