Avidia Bancorp, Inc.

Performance Trust Capital Connect

Investor Presentation

June 2, 2026

Forward-Looking Statements and Non-GAAP Financial Measures

Cautionary Statement Regarding Forward-Looking Statements

Statements contained in this investor presentation that are not historical facts constitute ”forward-looking statements” as that term is defined in the Private Securities Litigation Reform Act of 1995 (the “Act”). Forward-looking statements are subject to significant risks and uncertainties. Avidia Bancorp intends for all forward-looking statements to be covered by the safe harbor provisions contained in the Act. Avidia Bancorp’s ability to predict future results or the actual effect of future plans or strategies is inherently uncertain. Factors which could have a material adverse effect on the business and future prospects of Avidia Bancorp and its subsidiaries include, but are not limited to, general and local economic conditions, changes in market interest rates, deposit flows, loan demand, real estate values, competitive products and pricing, loan delinquency rates and trends, ability to manage business risks, ability to control costs and expenses, changes in federal and state law and regulation, and other factors that may be disclosed in Avidia Bancorp’s periodic reports as filed with the Securities and Exchange Commission. These risks and uncertainties should be carefully considered when evaluating forward-looking statements and undue reliance should not be placed on any forward-looking statements. Avidia Bancorp assumes no obligation to update any forward-looking statements expect as may be required by applicable law or regulation.

Explanation and Use of Non-GAAP Financial Measures

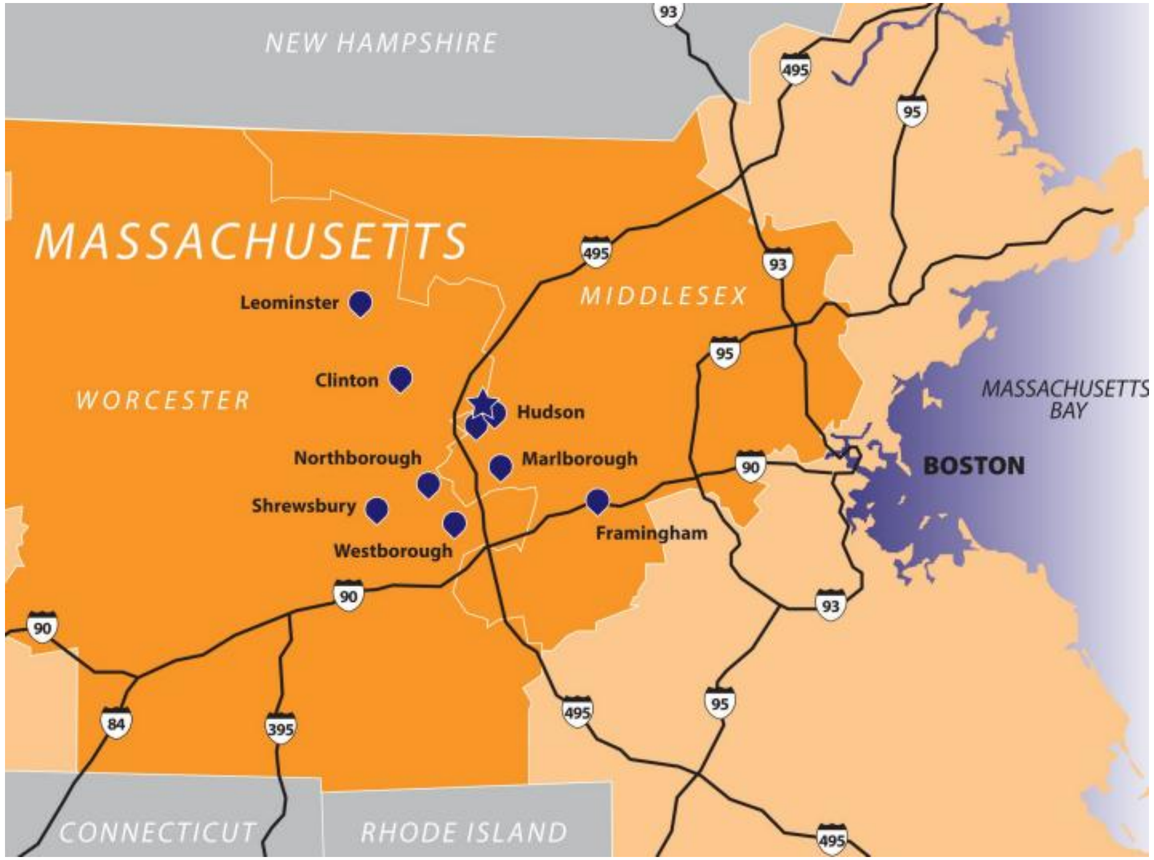
In addition to financial measures presented in accordance with U.S. generally accepted accounting principles (“GAAP”), Avidia Bancorp uses, and this investor presentation contains or references, certain non-GAAP financial measures. Avidia Bancorp believes these non-GAAP financial measures provide useful information in understanding its underlying financial condition and results of operations and its business and performance trends because they facilitate comparisons with the performance of other companies in the financial services industry. Although Avidia Bancorp believes these non-GAAP financial measures enhance the understanding of its business and financial condition and results of operations, they should not be considered as an alternative to comparable GAAP financial measures or considered more important than comparable GAAP financial measures, nor are they necessarily comparable with similar non-GAAP financial measures that may be presented by other companies.

Where non-GAAP financial measures are used in this investor presentation, the comparable GAAP financial measures, as well as the reconciliation to the comparable GAAP financial measures, can be found in the earnings release for the period covered by this investor presentation, which is furnished under cover of a Current Report on Form 8-K as filed with the Securities and Exchange Commission.

Who We Are

Avidia Bancorp, Inc.

Eastern Massachusetts community bank focused on commercial banking with established liquidity and credit solutions offered regionally & nationally.



- **1869** – Founding of Hudson Savings Bank and nearby Westborough Bank.
- **1997** – Assabet Valley Bancorp created as mutual holding company for Hudson Savings.
- **2007** – Hudson Savings Bank and Westborough Bank merged, forming Avidia Bank headquartered in Hudson, MA.
- **7/31/25** – Assabet Valley Bancorp converts to stock form and Avidia Bancorp becomes traded on the NYSE as AVBC.

$2.8 B TOTAL ASSETS	**$113 MM** Q1 ANNUALIZED REVENUE
$2.3 B TOTAL LOANS	**$2.1 B** TOTAL DEPOSITS
$372MM TANGIBLE EQUITY	**9** BRANCHES

Note: Financial data as of 3/31/26. Revenue 1Q26 annualized.
Tangible equity (non-GAAP) is $383MM equity less $12MM goodwill.

Business Model

Avidia Bancorp, Inc.

PRIORITIES

- **Organic diversified growth** – focusing on commercial loans, owner-occupied CRE, small business banking & traditional retail banking
- **Expansion of niche businesses** with focus on condo association lending and payments processing activities
- **Business model optimization** – efforts driving improvements in process, product, and pricing to bolster revenue generation and cost efficiencies
- **Improving Return on Tangible Common Equity ("ROTCE")** with financial and operating leverage utilizing IPO proceeds

SPECIALTY OFFERINGS

LIQUIDITY SOLUTIONS

Health Savings Accounts (HSA)
Multi-channel responsive competitive positioning

Payments Processing Activities
ACH processing, card acquiring, and card issuing

CREDIT SOLUTIONS

Condominium Association Lending
Commercial term loans secured by condo association cash flows and property

Commercial Financing – Dental practices

Financial Highlights 1Q26

Avidia Bancorp, Inc.

($ in millions, except EPS)

	1Q26	Δ$ Q/Q	Δ% Q/Q
Net interest income	$24.0	$0.4	2%
Non-interest income	$4.3	$0.6	15%
Total revenue	$28.3	$0.9	3%
Provision expense	$1.1	$(0.1)	-11%
Non-interest expense	$19.0	$0.6	3%
Net income	$6.0	$0.7	12%
EPS	$0.32	$0.03	10%
Return on assets	0.86%		9 bps
Return on tangible equity	6.57%		72 bps
Efficiency Ratio	67.2%		Unch
Total Loans	$2,285	($14)	-1%
Total Deposits	$2,146	$18	1%

Highlights

- 3% revenue growth
- 86bps ROA
- 6.6% ROTCE
- Invested IPO cash into securities & lowering wholesale funding
- Initiated process improvement project with third party to support revenue growth and efficiency

Note: ROTCE is a non-GAAP financial measure

Average Balances and Yields/Costs

Avidia Bancorp, Inc.

1Q26 ($ in millions)

	Avg. Balance	Δ$ Q/Q	Δ% Q/Q	Yield/ Cost	Δbps Q/Q
Loans	$2,288	$8	-	5.37%	+3bps
Investments and Other EA	409	41	11%	3.21%	-10bps
Total Earning Assets	2,697	49	2%	5.05%	-1 bp
Interest-Bearing Deposits	1,762	51	3%	1.58%	-3bps
Borrowings and Other IBL	259	(28)	(10%)	4.21%	-24bps
Total Interest-Bearing Liabilities	2,021	24	1%	1.93%	-9pbs
Net Interest Margin				3.61%	+7 bps
Noninterest-Bearing Deposits	370	20	6%	-	-
Total Deposits	2,132	72	3%	1.31%	-4bps

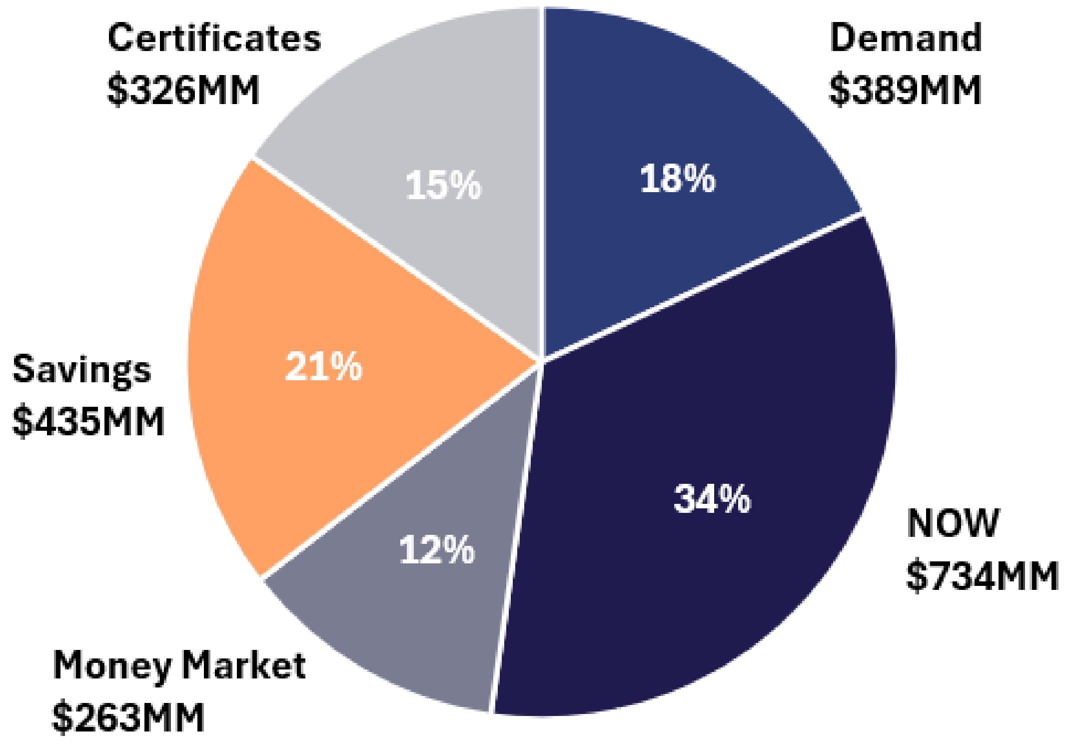
Highlights

- 7 bp margin increase
- 3 bp increase in loan yield
- 9 bp decrease in interest-bearing liabilities costs
- 8% increase in lower cost transaction account balances (DDA & NOW)

Deposit Composition

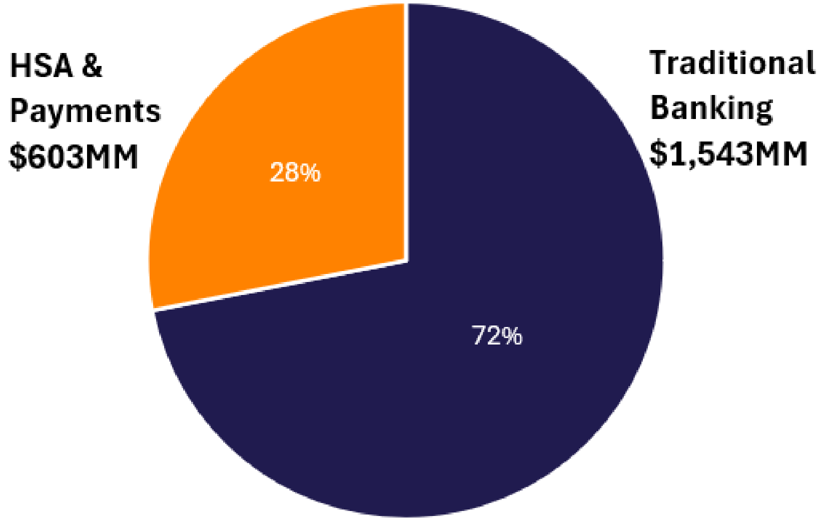
Avidia Bancorp, Inc.

Total Deposits $2.1 B



Highlights

- Lower cost transaction accounts (DDA & NOW)
  - 52% of total deposits
  - 0.36% cost
- Total cost of deposits 1.31%, down Y/Y 19 bps from 1.50%
- HSA & Payments 28% of total deposits

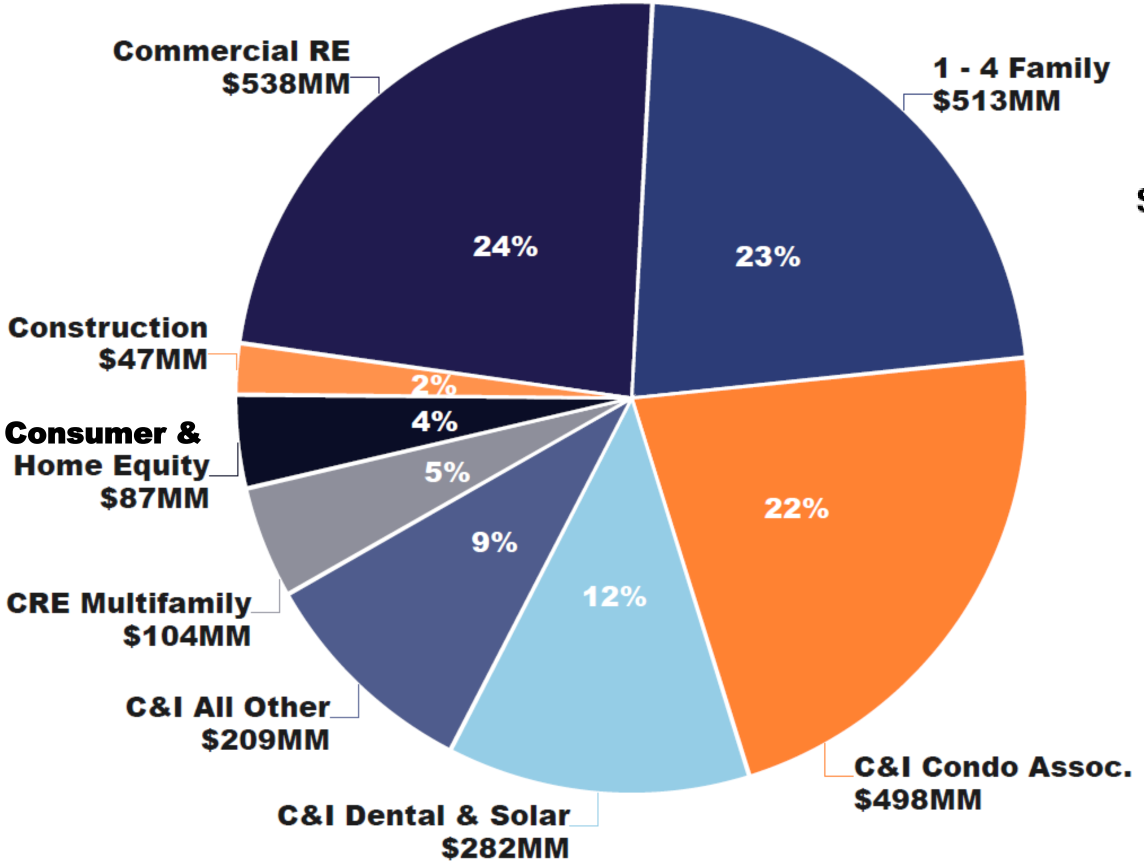


Note: Financial data as of and for the quarter ended 3/31/26

Loan Portfolio Composition

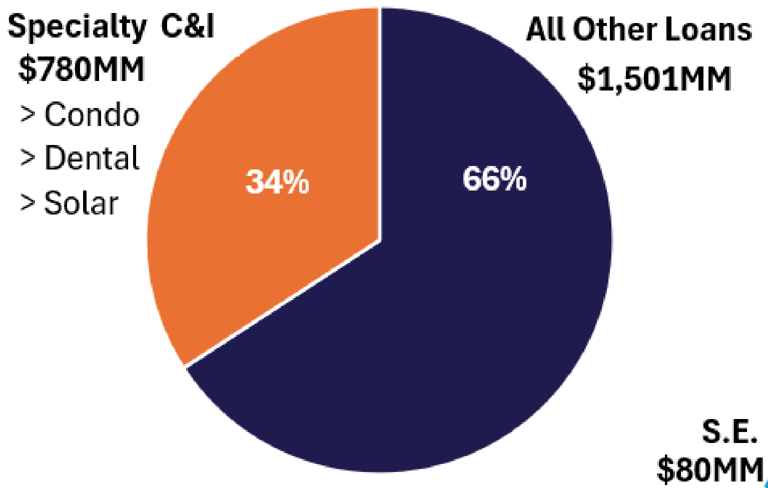
Avidia Bancorp, Inc.

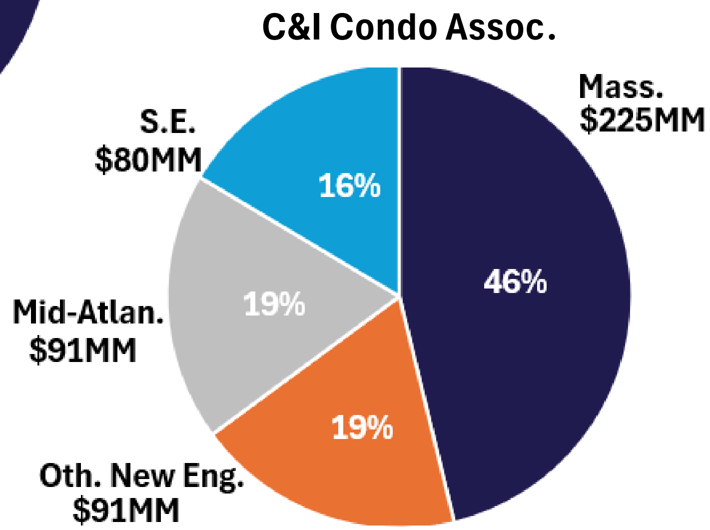
Total Loans $2.3B



Highlights

- Commercial loans 74% of total loans
- Loan yield 5.37%, up Y/Y 21 bps from 5.16%





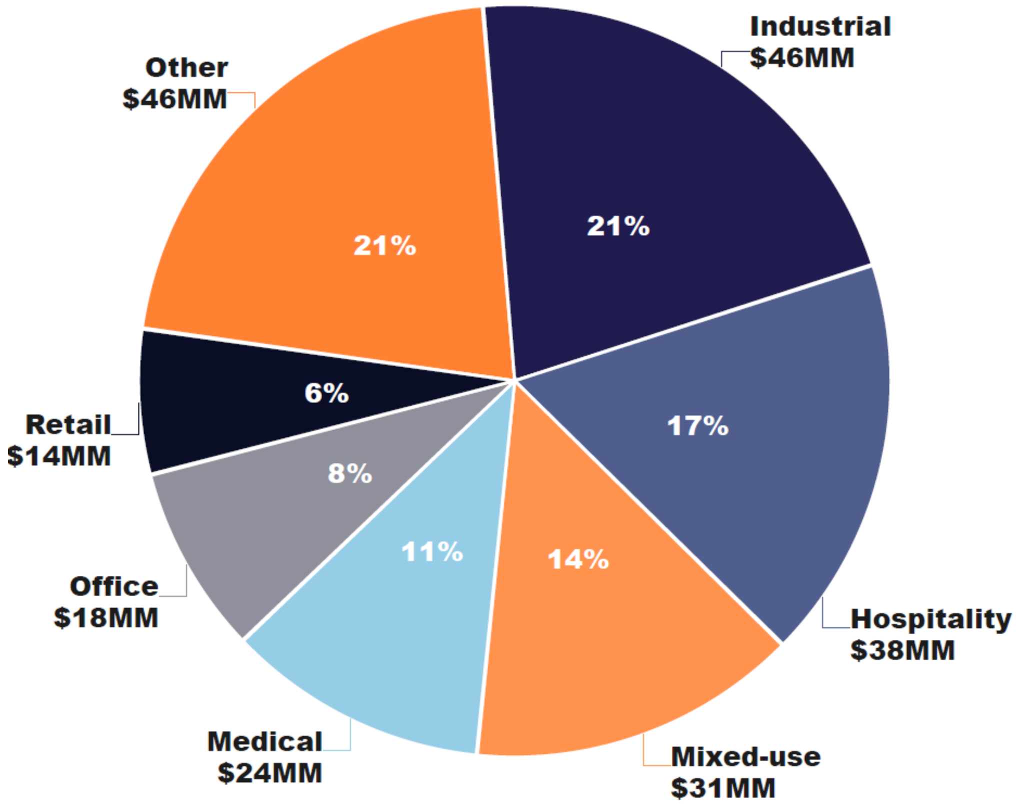
Note: Financial data as of and for the quarter ended 3/31/26. Home equity includes $3MM of other consumer. C&I dental practice loans totaled $180MM and solar loans totaled $102MM. Chart detail excludes $3MM overdrafts and $3MM deferred costs. Detail may not sum to totals due to rounding.

Commercial Real Estate Loans

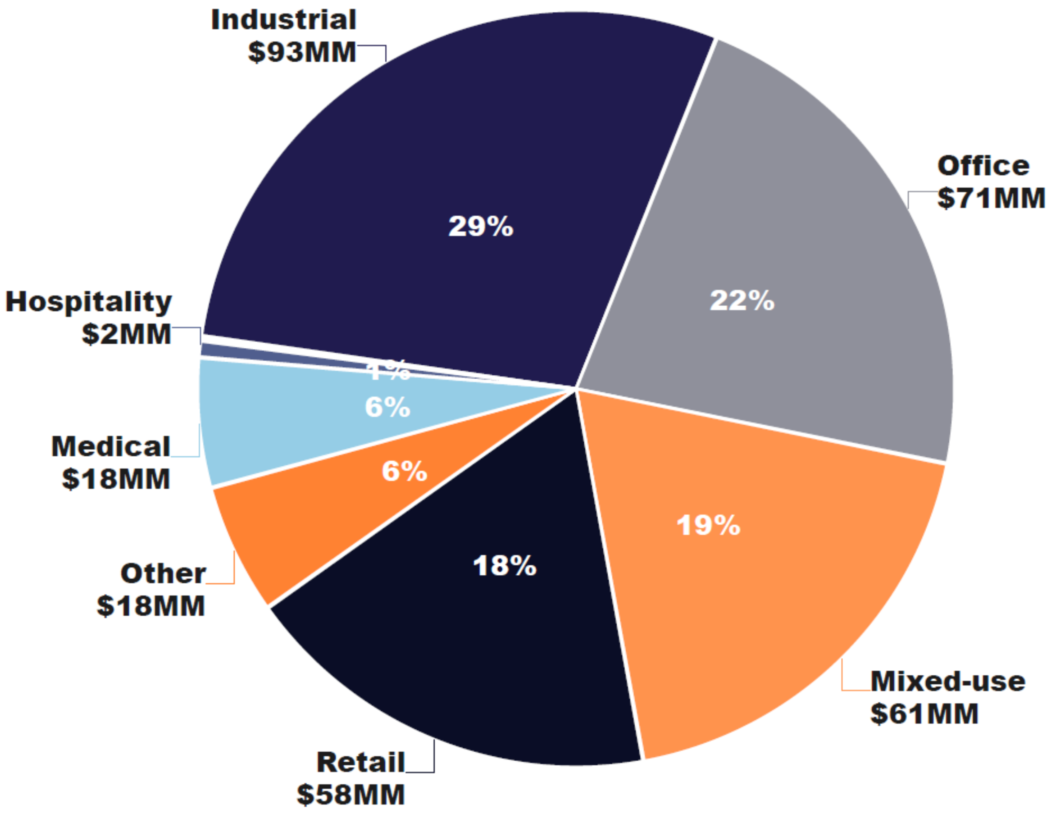
Avidia Bancorp, Inc.

- CRE well diversified. Office: Non-medical, non-owner-occ. $71 MM (none in Boston)
- NOOCRE 281% of bank regulatory capital, or 143% excluding C&I condo (homeowners) association loans

Owner –occupied $216MM



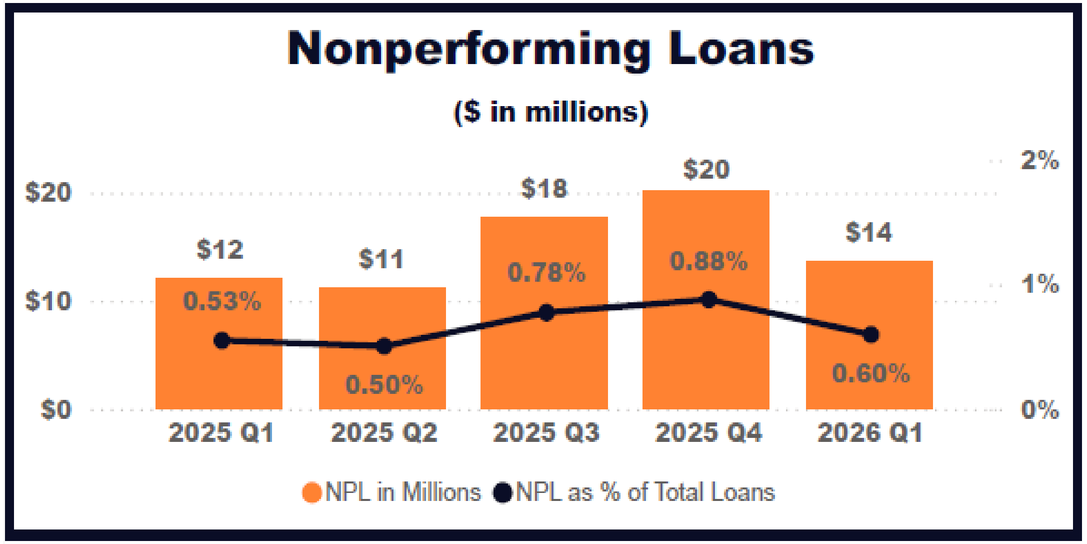
Non-owner–occupied (NOOCRE) $321MM

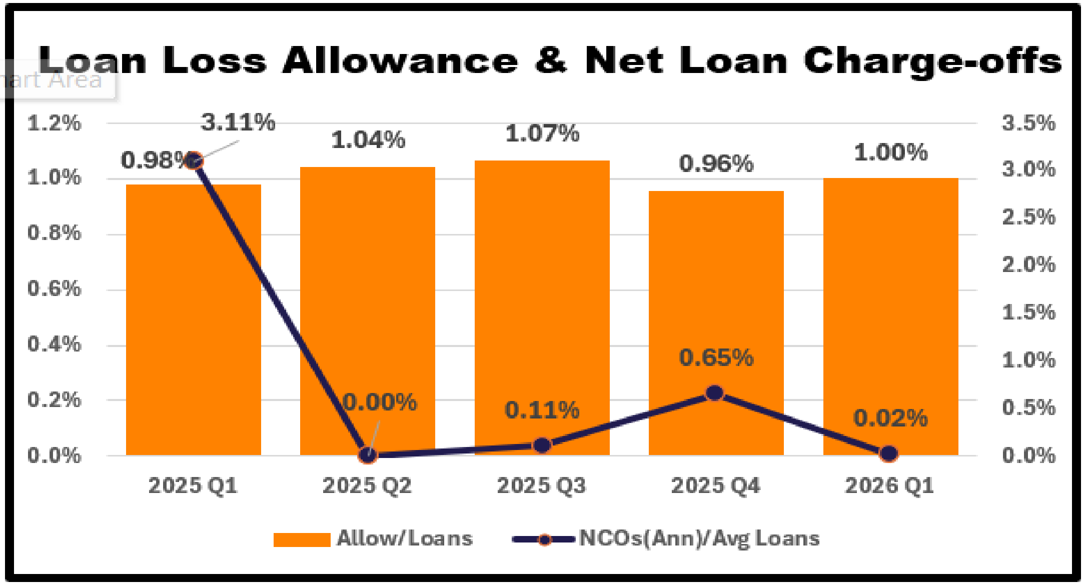


Note – Financial data as of 3/31/26. Detail may not sum to totals due to rounding.

Asset Quality

Avidia Bancorp, Inc.





Nonperforming Assets Rollforward - Q1 2026

(Dollars in thousands)

Nonperforming assets at December 31, 2025	$20,208
New to nonperforming	708
Loans charged-off	(127)
Payments applied to principal	(7,028)
Loans transferred to other real estate owned	0
Loans restored to performing status	(133)
New to other real estate owned	0
Other	0
Nonperforming assets at March 31, 2026	$13,628

Capital and Liquidity

Avidia Bancorp, Inc.

Capital

- Strong capital position post IPO
- $0.05 per share quarterly dividend
  - Initiated February 2026
- Dividend payout 16%
- Dividend yield 1.02%

Regulatory Capital ($ in 000s)	Amount $	Ratio %
Total Risk-Based Capital:	436,415	19.7
Common Equity Tier 1 Risk-Based Capital	384,880	17.4
Tier 1 Risk-Based Capital:	384,880	17.4
Tier 1 Leverage Capital:	384,880	13.7

Note: Financial and market data as of and for the quarter ended 3/31/26

Liquidity

- Short-term investments 3% of assets
- Securities 11% of assets
  - 94% of securities gov't or agency MBS
  - Unrealized loss 5% of securities
- Credit availability 38% of total assets

Borrowings Sources (in $ 000s)	Outstanding	Available
Federal Home Loan Bank borrowings	205,000	702,427
Federal Reserve Bank of Boston borrowings	-	330,276
Credit lines – correspondent banks	-	25,000
Total borrowings sources	205,000	1,057,703

Note: There were no brokered deposits outstanding at 3/31/26.

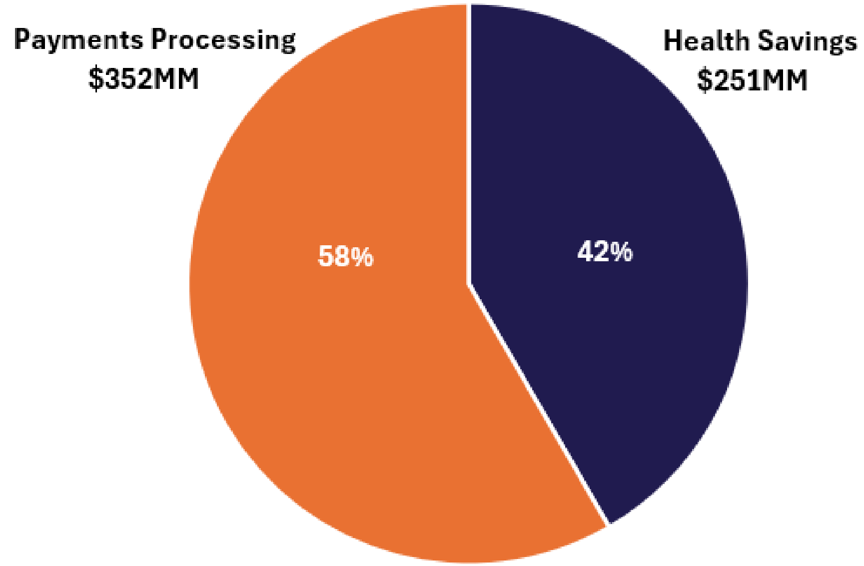
Liquidity Solutions

Avidia Bancorp, Inc.

Health Savings Accounts (HSA) & Payments Processing

- Long history of experience in these product lines
- Diversified deposit sourcing in national niche markets, with strategic competitive positioning
  - Stable deposit source and granular HSA base
  - ACH processing, card acquiring, & card issuing
- 28% of total deposits
- Payments processing 46% of FY25 total non-interest income

$601MM	Total HSA & Payments Deposits
$7.8M	FY 2025 Gross Revenues (payments processing)



Note: Financial data as of and for the quarter-ended 3/31/26 unless otherwise noted.