# Case Study: Optimizing Funding Costs



February 2025

Classification: Internal

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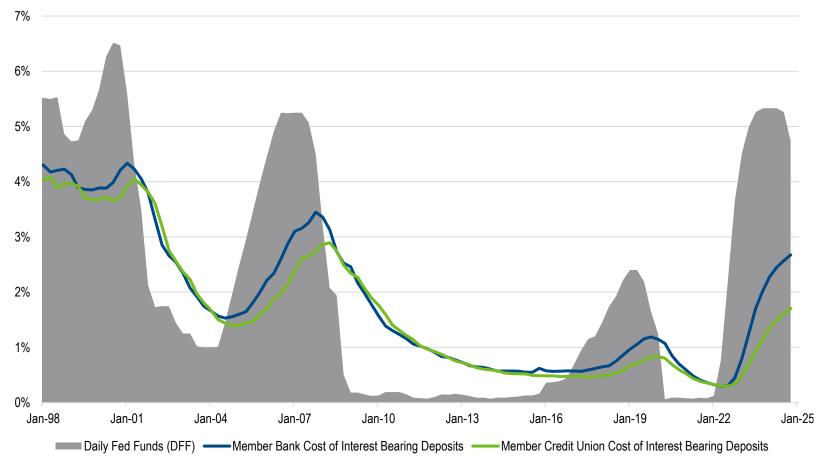
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### **Overview**

- Deposit Dynamics Trend Analysis
- Balance Sheet Impacts
- Funding Strategies

### **Deposit Cost Lag Effect**

Member bank and credit union deposit costs tend to rise and fall more slowly than the Federal Funds rate.



#### Deposit Cost of Funds (CoF) Lag

Q3 2024

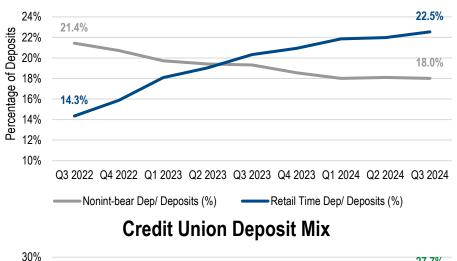
91%

9%

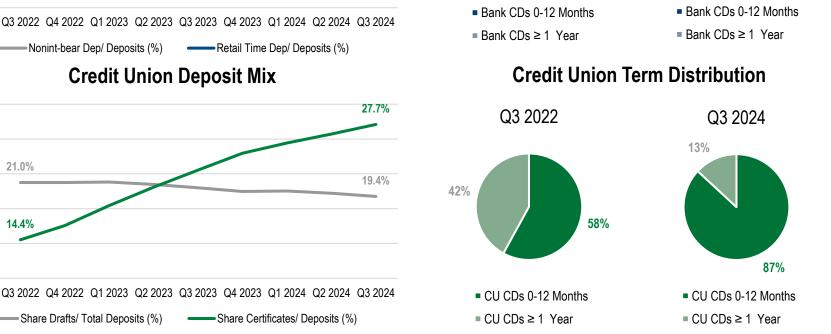
### CD Balances Are Growing and Shortening

Share Certificates/ Deposits (%)

There has been a trend of funds flowing from demand deposit accounts (DDA) to CDs while average CD tenor has also shortened.



#### **Bank Deposit Mix**



75%

**Bank CD Term Distribution** 

Q3 2022

25%

**Classification: Internal** 

Share Drafts/ Total Deposits (%)

21.0%

14.4%

26%

22%

18%

14%

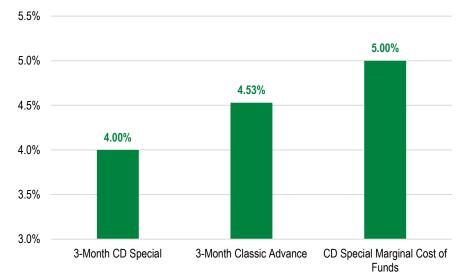
10%

<sup>D</sup>ercentage of Deposits

Source: S&P Global Copyright 2024, S&P Global Market Intelligence (and its affiliates, as applicable), FHLBank Boston

### **Deposit Cannibalization and Marginal Cost**

The true cost of a CD special can often be higher than the sticker price due to deposit cannibalization.



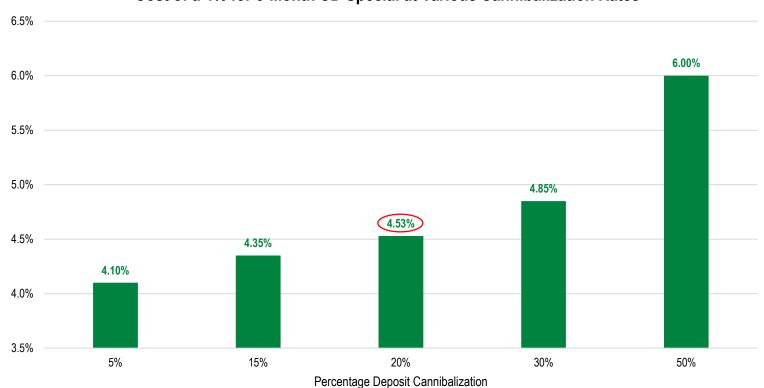
#### Marginal Cost of Funds Example

Source of Funds	Amount	Current Rate	Rate Increase	Marginal Cost	
Cannibalized Deposits	\$2,500,000	2.00%	2.00%	\$50,000	
New Deposits	\$5,000,000	-	4.00%	\$200,000	
Total	\$7,500,000			5.00%	

At a cannibalization rate of 33%, the marginal cost of adding \$5,000,000 in new deposits via a 4% three-month CD special is 5%.

### **Cannibalization Rate: Breakeven Analysis**

Even just small amounts of deposit cannibalization can have a much larger hidden cost.

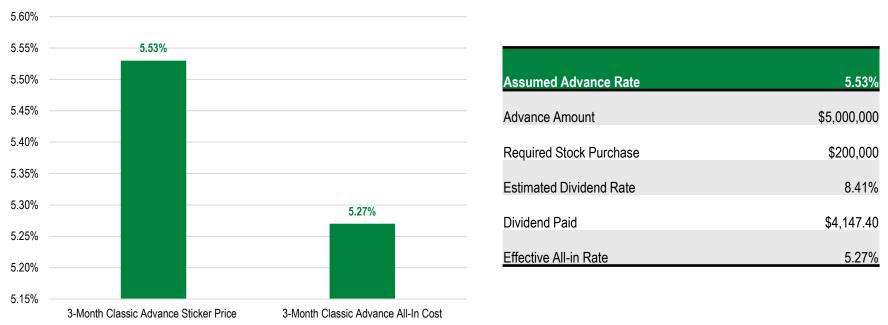


#### Cost of a 4% for 3-Month CD Special at Various Cannibalization Rates

 Assuming a 2% existing deposit cost, the cost of a three-month CD special at 4% and a three-month Classic Advance at 4.53% is equal to 20% deposit cannibalization.

### **FHLBank Boston Dividend and All-In Cost**

The dividend paid on FHLBank Boston member stock reduces the all-in cost of advances.



#### All-In Cost Comparison

- Non-overnight advances require a purchase of FHLBank Boston stock equivalent to 4% of the advance.
- The dividend reduces the all-in cost of a three-month Classic Advance to 5.27%, a 25.9-basis-point discount from the
  posted rate of 5.53%.
- Example uses advance rate from 7/1/2024 and the dividend rate paid of 8.41% from the third quarter of 2024 (note that the dividend rate and methodology is subject to change and is at the discretion of the Board).

### **Flexible Funding Strategies**

Fill in funding gaps with flexible funding solutions, which can be tailored and turned on and off as funding needs wax and wane.

### **Advance Funding Strategies**

Feature	Classic Advance	SOFR-Indexed Advance	Member-Option Advance	Callable SOFR-Indexed Floater Advance
Term Liquidity Protection	Yes	Yes	Yes	Yes
Term Rate Protection	Yes	No	Yes	No
Benefit From Rate Cuts	No	Yes	No	Yes
Flexibility to Prepay	No	No	Yes	Yes
Causes Deposit Cannibalization	No	No	Νο	No

### Member-Option Advance versus CD Special

If having flexible liquidity and rate protection are a priority, consider the Member-Option Advance

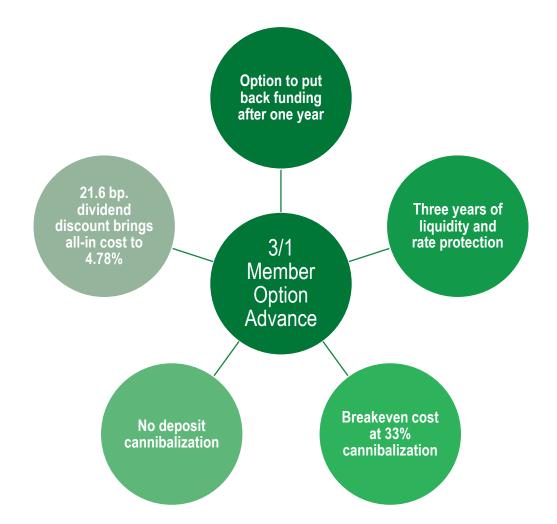
#### **Cost Comparison** 6.5% 6.5% 6.6% 6.0% 6.0% 6.0% 5.5% 5.5% 5.0% 5.0% 5.0% 5.0% 4.5% 4.5% 4.5% 4.0% 4.5% -------4.0% 4.0% 4.0% 3.5% 3.5% 3.0% 1/1/25 2/1/25 3/1/25 4/1/25 5/1/25 6/1/25 7/1/25 8/1/25 9/1/25 10/1/25 11/1/25 12/1/25 3.0% ••••• 3/1 Member-Option Advance --- 4% for 1-Year CD Special 3/1 Member-Option 4% for 1-Year CD CD Special With 20% 50% Cannibalization - CD Special With 20% Cannibalization - 50% Cannibalization Advance Special Cannibalization

Scenario: Performance Over The Next Year

Scenario: add new funding using a three-year Member-Option Advance with a one-year lockout at 5% compared to 4.5% for one-year CD special, assuming 2% existing deposit cost.

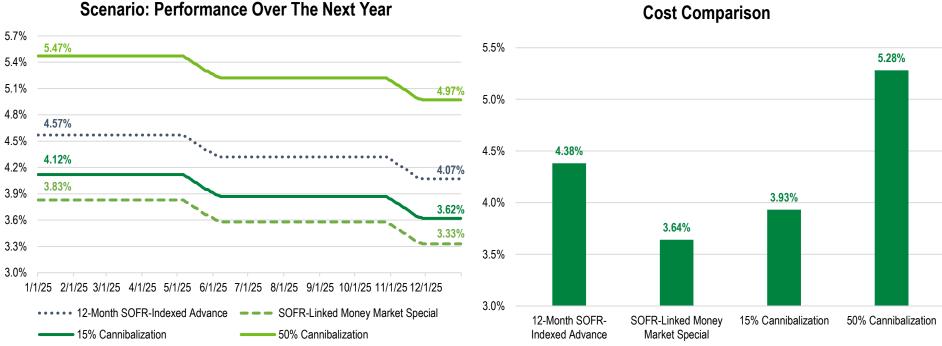
### **Scenario Takeaways**

Comparing the features of the 3/1 Member Option Advance and a one-Year CD Special



### SOFR-Indexed Advance versus Money Market Special

The SOFR-Indexed Advance offers the value of term liquidity while benefitting from rate cuts as they happen.



Scenario: add new funding via 12-Month SOFR-Indexed Advance with a day one rate of 4.57% (SOFR + 24 basis points) compared to a SOFR – 50-basis-point money market special, assuming 2% existing deposit cost.

### **Scenario Takeaways**

Comparing the features of the SOFR-Indexed Advance compared to a Money Market Special.



## **Thank You**

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