

# Balance Sheet Strategy:

# What Board Members & Senior Management Should Know in Any Environment

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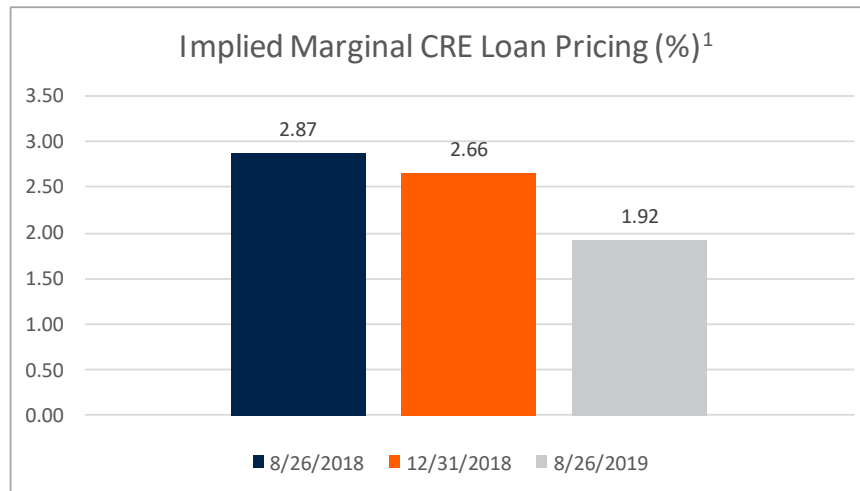
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# Balance Sheet Trends and Themes

- Liquidity and cost of funds continues to be a focus
- Yield curve inversion & the prospect of lower rates
- Boards and management struggling with ROA vs. ROE
- Investment portfolio: loss trades and deleverage strategies
- New hedge accounting simplifications must be understood
- Using ALCO meetings as a weapon

# Yield Curve Reactions

Index	2yrs Ago	1yr Ago	6mo Ago	3mo Ago	8/26/19
3M Treasury	1.00%	2.09%	2.44%	2.34%	1.98%
2 Year Treasury	1.33%	2.62%	2.48%	2.16%	1.52%
5 Year Treasury	1.76%	2.71%	2.45%	2.12%	1.40%
10 Year Treasury	2.17%	2.81%	2.64%	2.32%	1.52%
3M-5 Year Treasury Spread	0.76%	0.62%	0.01%	(0.22)%	(0.58)%
2-10 Year Treasury Spread	0.84%	0.19%	0.16%	0.16%	0.00%



<sup>1</sup> Assumes: marginal loan yield = yield on 5Y UST +225 bps on 8/26/18 and +250 bps on 12/31/18 and 8/26/2019. Marginal cost of funds = yield on 3M T-Bill.

Source: Bloomberg & Sandler O'Neill + Partners

# Recent Strategic Actions: Loss Trades & Wholesale Delevers

	Loss Trade	Wholesale Delever
<b>Description</b>	Take one-time loss, reinvest at higher yield to improve forward earnings	Remove inefficient wholesale leverage; pair one-time gains and losses
<b>Impact</b>		
Reported Net Income	Dilutive, until earned back	Depends on spread <sup>1</sup>
Core Net Income	Accretive <sup>2</sup>	Depends on spread <sup>2</sup>
Net Interest Margin	Accretive	Accretive
TBV/share	Minimal impact <sup>3</sup>	Minimal impact <sup>4</sup>
TCE Ratio	Minimal impact	Accretive <sup>5</sup>
Regulatory Capital Ratios	Dilutive, until earned back	Accretive <sup>5</sup>
<b>Considerations</b>	- Loss classified as 'non-core' - Focus on breakeven period	- Gains/losses classified as 'non-core'

<sup>1</sup> Unwinding a negative/positive spread will be earnings accretive/dilutive.

Assumes that gains/losses on sale of securities and/or gains/losses on debt extinguishment offset.

<sup>2</sup> Assumes gains/losses on sale of securities and/or gains/losses on debt extinguishment are excluded from core net income.

<sup>3</sup> Assumes unrealized losses are already included in tangible common equity.

<sup>4</sup> Assumes minimal gains/losses on extinguishment of debt.

<sup>5</sup> Assumes accretion from smaller balance sheet offsets dilution from prepayment penalty, if incurred.

# Thoughts on Downside Protection

## On Balance Sheet Options:

Investment Portfolio Tactics	<ul style="list-style-type: none"><li>• Lockout</li><li>• Don't just add duration</li><li>• Minimize optionality risk</li><li>• Loss trades</li></ul>
Deposit Product Offerings	<ul style="list-style-type: none"><li>• Indexed based CDs</li><li>• Indexed based MMDA</li></ul>
Wholesale Funding	<ul style="list-style-type: none"><li>• Fund with short term wholesale</li><li>• Convert fixed-rate debt to floating</li><li>• Callable CDs</li></ul>

## Off Balance Sheet Options:

Floors or Collars	<ul style="list-style-type: none"><li>• Consider the benefits of each</li></ul>
Receive-Fixed Swap	<ul style="list-style-type: none"><li>• Provide certainty of rate protection</li><li>• No option risk and positively convex</li></ul>
Cancelable Pay-Fixed Swap	<ul style="list-style-type: none"><li>• Bank has the right to terminate the swap at par after a lockout period</li></ul>

# Portfolio Opportunities

## High Level Segment Commentary:

Buy Front Sequential CMOs	<ul style="list-style-type: none"><li>• Add structure</li><li>• Lower coupons perform well and maintain liquidity when rates rise</li></ul>
Buy Discount Agency CMBS	<ul style="list-style-type: none"><li>• Add lockout</li><li>• Prepayment penalties serve as downside protection</li></ul>
Buy Discount Agency MBS	<ul style="list-style-type: none"><li>• Enhance cash flow</li><li>• Yield increases if rates go down, constant if rates move higher</li></ul>
Sell Short Municipals into Historic Tights	<ul style="list-style-type: none"><li>• Retail bid is strong, new issuance is low</li><li>• Clean-up odd lots or pare exposure</li><li>• Better value further out on the curve</li></ul>
Optimize Corporate Portfolios	<ul style="list-style-type: none"><li>• Consider higher-quality corporates, agency CMBS, or longer-dated munis</li><li>• High-quality CLOs, FFELP, or SBA floaters could also make sense</li></ul>

# New Hedge Accounting Rules & Strategy Implications

## Rule Simplification

## Strategy Implication

### Key Cash Flow Hedge Accounting Simplifications:

Concept of benchmark rate removed  
& effectiveness testing is a binary  
assessment



Money Market Deposit Account proxy  
hedge

Option Premium Amortization &  
Time Value Exclusion



Use of floors and collars to protect NIM  
from falling rates

### Key Fair Value Hedge Accounting Simplifications:

Shortcut hedge accounting backup  
relief



Single Asset Hedging

“Last of Layer” rule for pool of  
prepayable assets



Hedging pools of residential mortgages



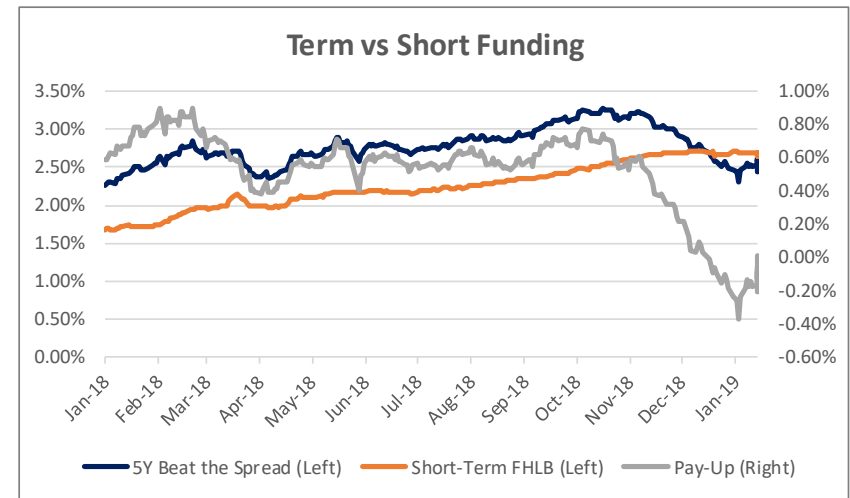
# Beat the Spread – New Funding Opportunities

## Banks can hedge the rollover risk of short-term funding to extend liability duration:

- Enter into a Pay-Fixed Receive 3 Month Libor interest rate swap
- Take out 3 month advance, settling on the effective date of the swap
- Designate the swap as a cash flow hedge against changes in advance rates (3 month Libor)
- Roll the 3 month advance each quarter matching the reset dates of the swap



The inverted swap curve allows banks to extend liability duration and lower cost of funds at the same time



# Hedging Fixed-Rate Bonds

## Situation

Bank is interested in reducing the duration of fixed-rate securities it is considering purchasing

## Bank Solution:

1. Bank identifies a fixed-rate bond for hedging – either from existing portfolio or purchase candidate
2. Bank enters into a pay-fixed interest rate swap with the dealer hedging the fixed-rate cash flows
3. The Bank sets the maturity date of the swap *early enough to avoid any call features*
4. The swap is designated as a partial-term fair value hedge



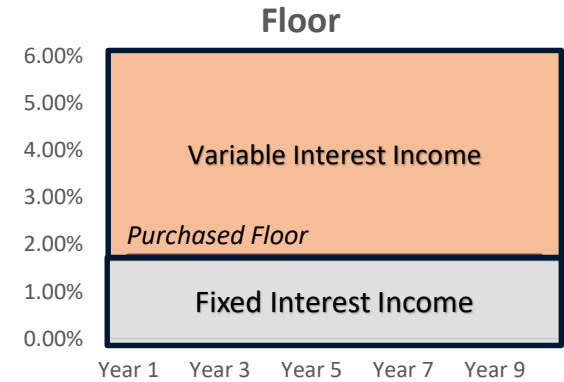
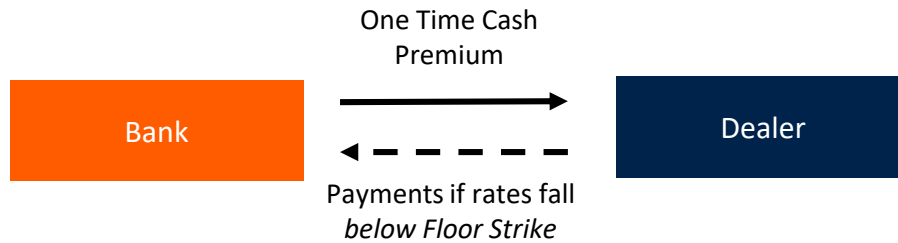
**Since pay leg is *lower* than receive leg of swap – net impact to income is **positive****

## New Accounting Rules Used:

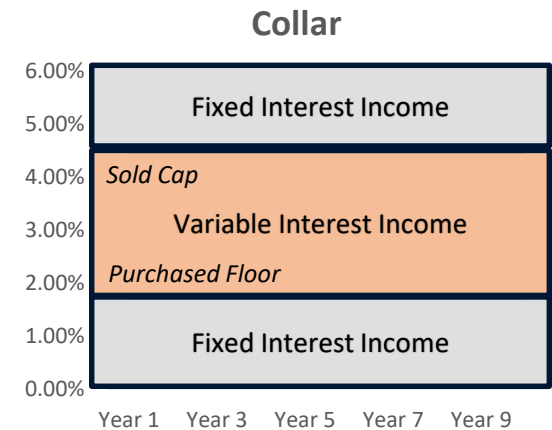
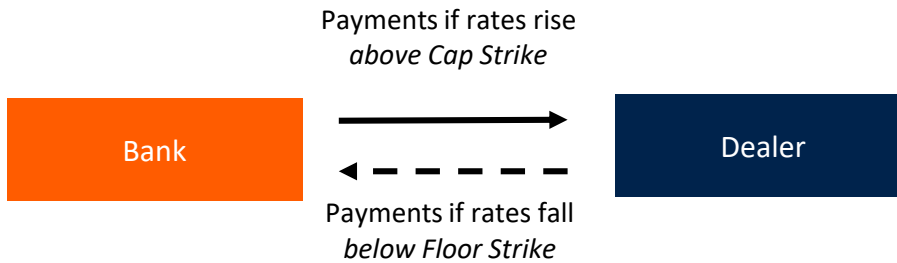
1. Hedge interest rate risk attributable to benchmark rates only
2. Partial-term Fair Value hedge designation
3. Short cut hedge accounting

# Hedging Falling Short Term Rates

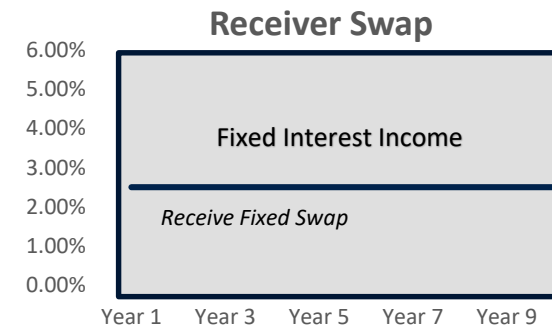
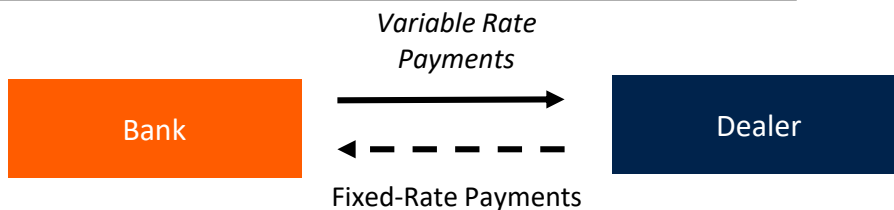
A Purchased Floor on floating-rate assets is an interest rate option that behaves as insurance against falling short-term rates



A Costless Collar on floating-rate assets is an interest rate option that behaves as a purchased floor and a sold cap where the premium prices offset



A Receive-Fixed Swap is a way to extend duration on variable-rate assets to protect against changes in rates impacting interest income



# Cap Case Study: Trust Preferred Shares Rate Insurance

### Situation:

- A bank is concerned about the impact of large moves on cost of capital due to its floating-rate TRUPS

### Solution:

- Hedge the TRUPS for 5 years using an At-The-Money (ATM) cap on LIBOR by paying a one time premium up front and receiving payments if LIBOR goes above the strike rate on any reset date



### Considerations

- Because the cost of the cap is paid for upfront, the holding company has no future payment obligations or margin requirements
- Hedge accounting rules allow back-ended expense recognition

Feel free to reach out with any questions:

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