



Regulatory Compliance

◆ Risk Management Strategy & Solutions ◆

### Creating a High Performing ALCO: Making the Complex, Simple!

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# Greatest Level of Liquidity Surge in "Banking" History



#### .....Including

- > NIM / ROA
- Liquidity Management
- > Interest Rate Risk Measurement
- Capital Management
- Deposit Analytics



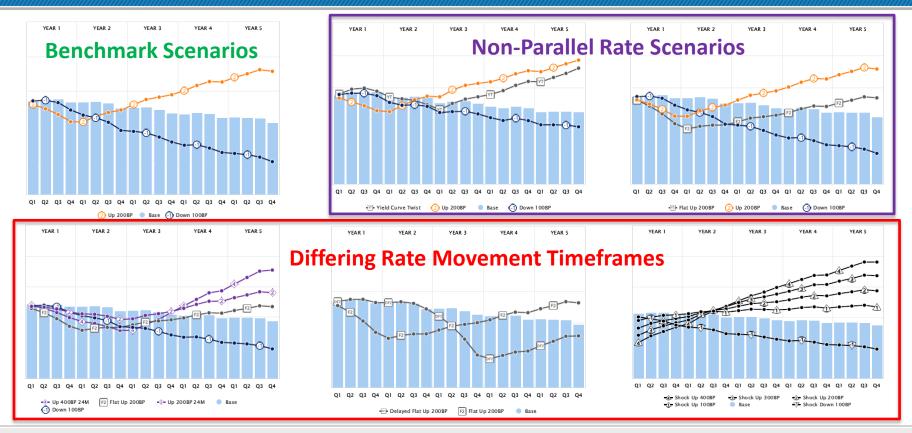
# Pandemic's Impact? Don't Fly Blind

How Comfortable Are You With Your "New" Risk Profile? & What's Ahead?





### Understand Your Interest Rate Risk Profile



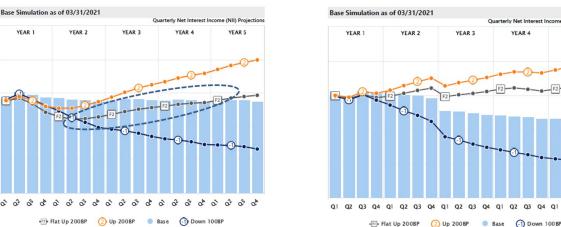


# Flat & Falling Rates Problematic

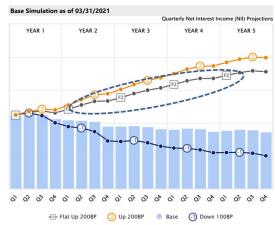
### Listen to Your Balance Sheet: Leads to Effective Strategy Discussion



- ◆ Few FIs Lack Fixed Rate Capacity
- "Matched Funding" a Myth
- Biases "Get in the Way"



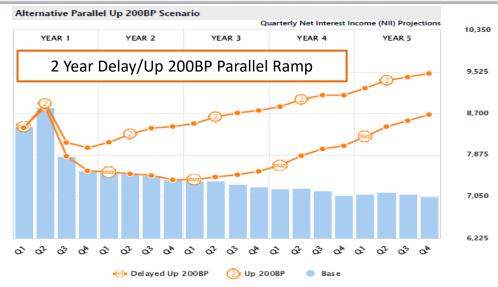


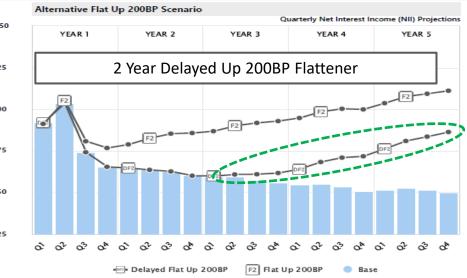




#### Focus on Plausible Scenarios – How to Fill the Hole?

### Impact of *Delayed* Rising Rate Scenarios





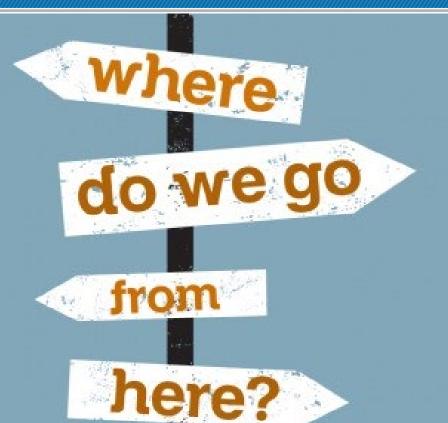
NII RESULTS					
	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5
DELAYED UP 200BP	32,668	29,887	29,853	31,582	33,910
UP 200BP	33,450	33,263	34,596	35,931	37,469
BASE	32,668	29,886	29,253	28,654	28,363

	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5
DELAYED FLAT UP 200BP	32,668	29,887	29,635	30,680	32,397
FLAT UP 200BP	33,287	32,582	33,542	34,592	35,858
BASE	32,668	29,886	29,253	28,654	28,363

<sup>1.</sup> In the Delayed Up 200BP scenario, market rate movements are delayed 24 months and ramp up 200BP in year three.

<sup>2.</sup> In the Delayed Flat Up 200BP scenario, market rate movements are delayed 24 months and ramp up in year three

















# **6 Key Things for Your Next ALCO Meeting**

- Quantify Your Embedded NII Pressure
- Change the Conversation on Loan Pricing
- Do Your Homework on "Deposit Surge" & Determine How Much \$ Comfortable "Putting to Work"
- Quantify Your Capacity for Fixed-Rate Assets
- Look at Asset Strategies Through a Different Lens
- Set the Tone for Deposit Strategy...Now and the "Next Cycle"

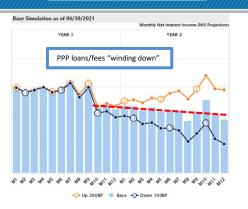


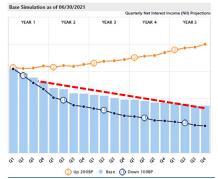


Quantify Your Embedded NII Pressure

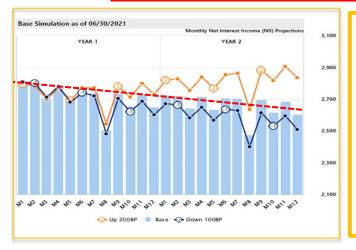


# NII Challenge: Key ALCO Discussion





# '22-'23 NII levels expected to feel pressure



# **2022 NII "Hole" = \$1MM** *If Choose to Fill...?*

- Any room left with deposits?
- \$100MM Bond Purchases (@ 1% spread)9% assets
- \$30MM Loan Growth (@ 3.5% spread)
  - 3.7% loan growth "today"

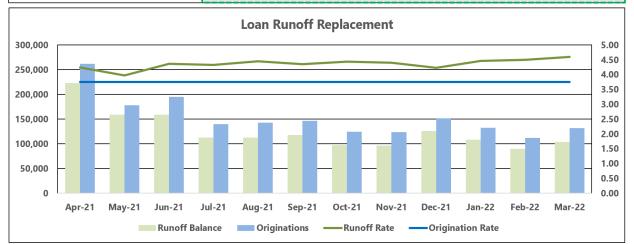




#### How Much Volume Needed to Break Even?

### Framing "The Real Issue"

	Apr-21	May-21	Jun-21	Jul-21 - Sep-21	Oct-21 - Dec-21	Jan-22 - Mar-22				
Loan Runoff Replacement A	Analysis									
		Non-PPP Loan Portfolio Runoff								
Balance	222,814	158,712	159,095	342,701	319,750	301,664				
Rate	4.24	3.97	4.37	4.38	4.34	4.52				
	Loan (	Originations	Required	to Maintair	Current In	come				
Balance	261,747	177,784	195,145	429,125	399,588	375,621				
Cumulative Balance	261,747	439,530	634,676	1,063,801	1,463,389	1,839,010				
Rate	3.75	3.75	3.75	3.75	3.75	3.75				
Cumulative Annualized										
<b>Growth Rate %</b>	9.3	6.9	7.5	7.2	6.9	6.7				



### 4-6% Loan Growth

#### "For Revenue Neutral"

(Net Annual Growth Needed for Most Banks)





- Quantify Your Embedded NII Pressure
- Change the Conversation on Loan Pricing



# Pricing...What's Driving "the Market"?



- Core Margins Under Pressure
- 2022 Earnings Concerns Are Real
- FI's More Comfortable With Credit Outlook
- Opportunity Cost of Cash (No End in Sight)
- Accepting Lower Spreads...



Importance of Focusing on "Spread" (Don't Let Absolute Rate Levels Drive Conversation)

Set The Tone and Parameters for "How Low Will We Go?"



# Reality Check on CRE Loan Pricing

#### Friday, September 17, 2021

FHLB 5Y rate @ 1.10%

		1m LIB	OR Swap F	Rates							
Term	Bullet	Amortization Period									
lerm B	Bullet	10	15	20	25	30					
1	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%					
2	0.29%	0.28%	0.28%	0.28%	0.29%	0.29%					
3	0.51%	0.48%	0.50%	0.50%	0.50%	0.51%					
4	0.71%	0.65%	0.68%	0.69%	0.69%	0.70%					
5	0.86%	0.78%	0.82%	0.83%	0.84%	0.85%					
7	1.08%	0.93%	1.01%	1.03%	1.05%	1.06%					
10	1.27%	0.98%	1.15%	1.20%	1.23%	1.24%					
11	1.31%		1.18%	1.24%	1.27%	1.28%					
12	1.35%		1.19%	1.27%	1.30%	1.31%					
13	1.38%		1.20%	1.29%	1.32%	1.34%					
14	1.41%		1.20%	1.30%	1.35%	1.37%					
15	1.43%		1.19%	1.32%	1.36%	1.39%					
20	1.51%			1.31%	1.40%	1.44%					
25	1.52%				1.38%	1.44%					
30	1.52%					1.42%					

		PRIM	E Swap Rat	es						
Т.,	Bullet	Amortization Period								
Term B	Bullet	10	15	20	25	30				
1	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%				
2	3.38%	3.37%	3.38%	3.38%	3.38%	3.38%				
3	3.58%	3.56%	3.57%	3.57%	3.58%	3.58%				
4	3.77%	3.72%	3.74%	3.75%	3.76%	3.76%				
5	3.92%	3.84%	3.88%	3.89%	3.90%	3.91%				
7	4.13%	3.99%	4.06%	4.09%	4.10%	4.11%				
10	4.30%	4.04%	4.19%	4.24%	4.26%	4.28%				
11	4.34%		4.22%	4.27%	4.30%	4.31%				
12	4.37%		4.23%	4.30%	4.32%	4.34%				
13	4.40%		4.24%	4.31%	4.35%	4.36%				
14	4.42%		4.24%	4.33%	4.36%	4.38%				
15	4.44%		4.23%	4.34%	4.38%	4.40%				
20	4.50%			4.33%	4.41%	4.45%				
25	4.51%				4.39%	4.44%				
30	4.50%					4.43%				

5Y CRE Deals "Today" Commonly Around 3.50%-3.75% (Many Markets More Aggressive)

Pre-COVID @ 4.25-4.50%

"Today" @ 3.50%-3.75%

FHLB +

235 to 260bp

275 to 300bp LIBOR +

Prime -30 to -5bp FHLB + 240 to 265bp LIBOR + 266 to 291bp Prime -40 to -15p

NOTE ON "LARGE" BANK PRICING

Crazy @ +/-3.00%?

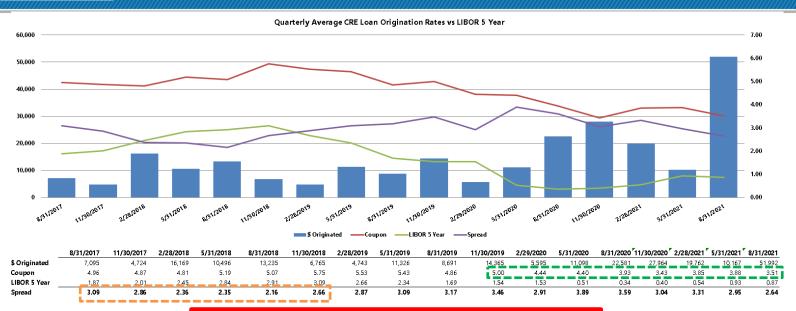
They Focus on Spread

**LIBOR + 216** 

(In a World Used to 175-200)



# Historical CRE Loan Volume/Rate/Spread



Importance of Focusing on "Spread" (Don't Let Absolute Rate Levels Drive Conversation)

Set The Tone and Parameters for "How Low Will We Go?"





# **6 Key Things for Your Next ALCO Meeting**

- Quantify Your Embedded NII Pressure
- Change the Conversation on Loan Pricing
- Do Your Homework on "Deposit Surge" & Determine How Much \$ Comfortable "Putting to Work"



# What's My "Real" Liquidity Position?

#### Past, Present & Future

### The Past (Pre-COVID):

- Accelerating liquidity concerns
- The importance of details for effective deposit strategy, for example
  - Granularity: by market, location, product, customer, etc.
  - Behavior patterns
  - Importance of migration analysis vs. undue focus on "net growth"





#### The Present:

- Greatest level of deposit surge in history of banking
- > Turned deposit analytics, risk measurement, liquidity management on its head

#### The "Future":

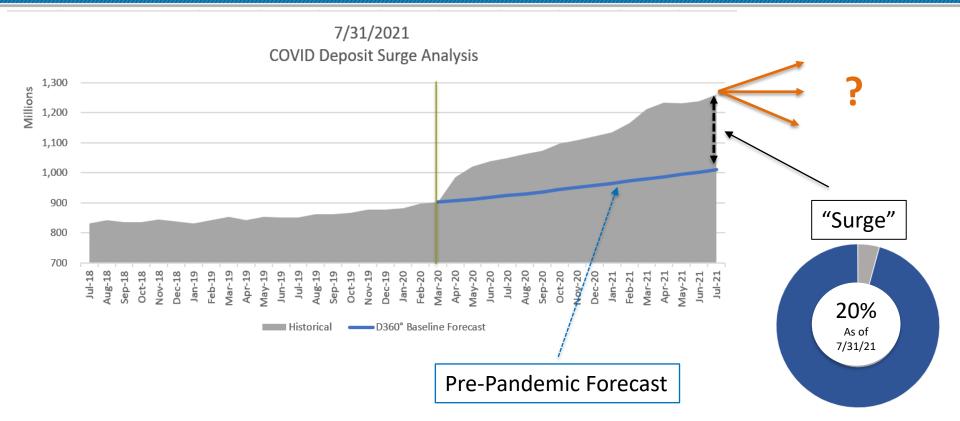
- Liquidity will dissipate...it always does...Q: how much and in what manner?
- Data: Shed light on what need to know vs. "confirm" what believe know





### **COVID Surge Forecast**

### Sample COVID Forecast





# First Step: Identify & Examine Surge Sources

### Raw Materials Inventory Management

1. Segment New Accounts vs. Existing Accounts

2. Breakout Business vs. Consumer



3. Identify Notably Atypical Growth Patterns / Balance Concentrations

4. Start With the Largest Balances / Inflows



# Average Balance Trends by Tier

Deeper Dive: Likely Surge "Hiding Places"



	Retail			Business			Total		
Relationship Tier	Balan	ce (M)	% of Growth	Balo	ance (M)	% of Growth	Bala	nce (M)	% of Growth
0-25K	\$	25	15%	\$	7	2%	\$	32	6%
25K-100K	\$	34	20%	\$	22	6%	\$	56	10%
100K-250K	\$	27	16%	\$	41	11%	\$	70	13%
250K-1M	\$	31	18%	\$	97	26%	\$	128	23%
1M+	\$	54	31%	\$	213	56%	\$	266	48%
Total	\$	172	100%	\$	380	100%	\$	552	100%

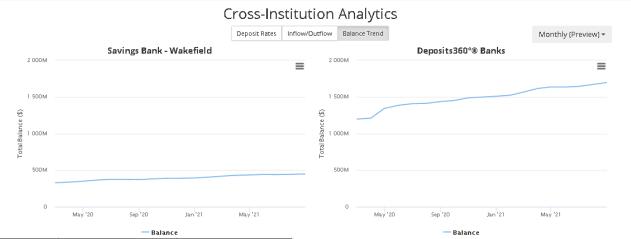
	Retail		Business			Total			
Relationship Tier	Balo	ince (M)	% of Growth	Bal	ance (M)	% of Growth	Balo	ance (M)	% of Growth
0-25K	\$	29	4%	\$	2	1%	\$	31	3%
25K-100K	\$	91	13%	\$	16	4%	\$	107	10%
100K-250K	\$	94	13%	\$	42	11%	\$	136	12%
250K-1M	\$	217	31%	\$	139	35%	\$	356	32%
1M+	\$	270	38%	\$	197	50%	\$	467	43%
Total	Ś	701	100%	Ś	397	100%	Ś	1.098	100%

Source: Deposits360°®



# **Understanding Growth Rates Since COVID19**

#### "Industry" vs The Bank



Total Growth Since February 2020						
	The Savings Bank	Cross Institution				
NMDs	37%	42%				
CDs	-13%	-17%				
Total	19%	29%				

Cross Institution:

Includes over 2 billion individual deposit record

Spans over two decades of rate cycles

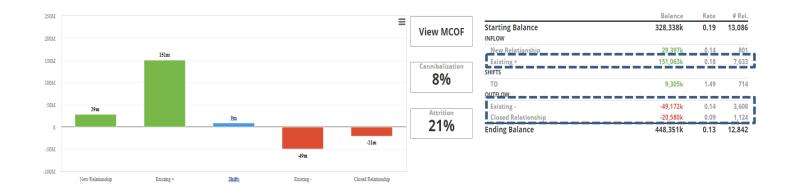
Data from over 4,700 branches throughout 48 states

Built in anonymity



# NMD Relationship Activity 2/29/20 – 8/31/21

Migration Trends: Growth of Existing vs New Relationships

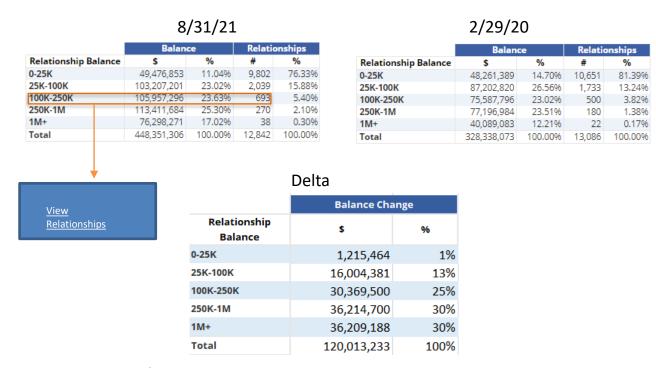


♦ 75% of NMD growth came from existing customers



## Growth by Relationship Size

#### Balance Trends by Relationship Size



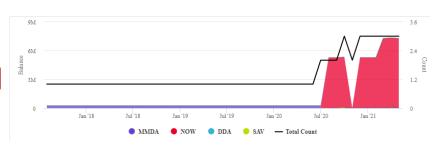
Relationships > \$100K responsible for 85% of the NMD growth

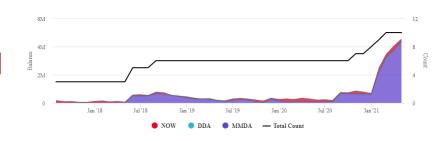


# Identify the Greatest Depositor Inflows

### Drill Deeper...Top 20 List

	Total Re			
Relationship Number	3/31/2020	3/31/2021	Difference	<b>Branch Number</b>
A038971	2,938,065	25,062,441	22,124,377	Main
CAA5389	21,789,486	39,343,374	17,553,888	Main
VAA0614	6,387,412	20,710,578	14,323,165	Downtown
AAA1017	1,273,827	14,211,630	12,937,803	Uptown
F030207	2,716,454	12.444.990	9.728.536	Main
IAA0136	256,974	7,325,657	7,068,683	Downtown
T308322	9,428,719	14,879,094	5,450,376	Downtown
WAA2609	229,487	5,484,118	5,254,631	Main
T307221	23,715,205	28,850,882	5,135,677	Uptown
C309371	31,143,564	36,213,083	5,069,519	Downtown
G304816	2,284	5,004,401	5,002,117	Downtown
F029827	5,541,568	10,267,261	4,725,693	Uptown
R310157	191,731	4,799,505	4,607,774	Downtown
HAA5099	740,792	4,600,548	3,859,756	Downtown
MAA1734	340,973	4,051,773	3,710,799	Uptown
TAA2294	4,883,078	8,494,408	3,611,329	Downtown
SAA4507	479,322	3,685,505	3,206,183	Main
R312080	3,446,950	6,475,643	3,028,693	Uptown
TAA2683	207,569	3,126,007	2,918,438	Uptown
JAA1437	273,243	3,149,862	2,876,619	Main





Source: Deposits360°®



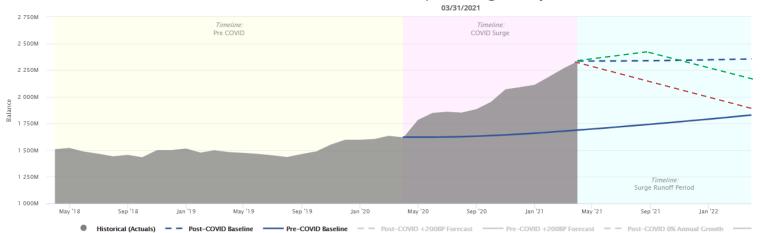




### **Forecast Potential Outcomes**

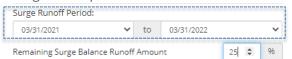
Deposits 360°®

#### COVID Deposit Surge Analysis



#### Scenario 1: 25% Runoff

#### Surge Assumptions



#### Scenario 2: 100% Runoff

#### Surge Assumptions

urge Runoff Period:					
03/31/2021	~	to	03/31/2022		V
emaining Surge Bala	nce Runoff	Amour	nt.	100	96

#### Scenario 3: 50% Runoff

#### Surge Assumptions







# **6 Key Things for Your Next ALCO Meeting**

- Quantify Your Embedded NII Pressure
- Change the Conversation on Loan Pricing
- Do Your Homework on "Deposit Surge" & Determine How Much \$ Comfortable "Putting to Work"

Quantify Your Capacity for Fixed-Rate Assets



# What's My "Real" Interest Rate Sensitivity?



### **Did My Business Model Change?**





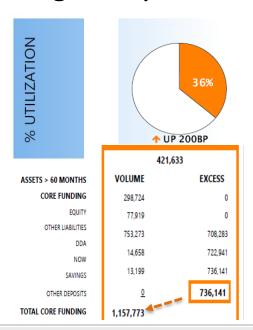


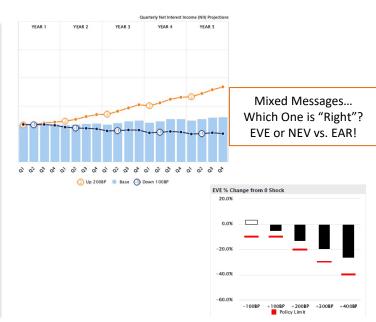
### "Rates Have Nowhere to Go But Up!"

- Vast Majority Have Capacity for More Duration
- ◆ Importance of Creating *Clarity* with YOUR Risk Profile



It's a "Funding Issue" NOT Lack of Capacity

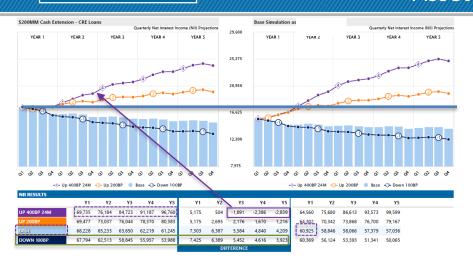




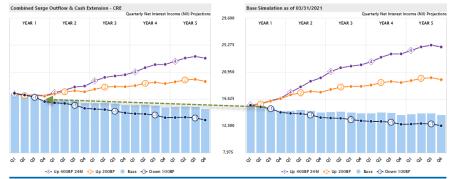


# Fixed-Rate Lending Capacity

#### Asset Sensitive...More Duration "Reduces" IRR!



# Importance of Testing Ability to Absorb Deposit Surge Uncertainty (e.g., 25%) w/ Asset Extensions







# What Is My Capacity to Extend?

#### The Playbook

1. Analyze the IRR change post-COVID... "smoke and mirrors" or new normal?



- 2. Estimate core deposit "stickiness" from recent surge
- 3. Understand dynamics of parallel vs. flat yield curve shift and a <u>delayed</u> rising rate scenario
- 4. Understand deposit sensitivity... Deposit costs for financial institutions barely increased for the first 100-125 bp of Fed tightening
- 5. Quantify the utilization of your core funding base
- 6. Present Earnings Simulations 2 & 5 year horizons (monthly/quarterly) to capture inflection & "cross-over" points





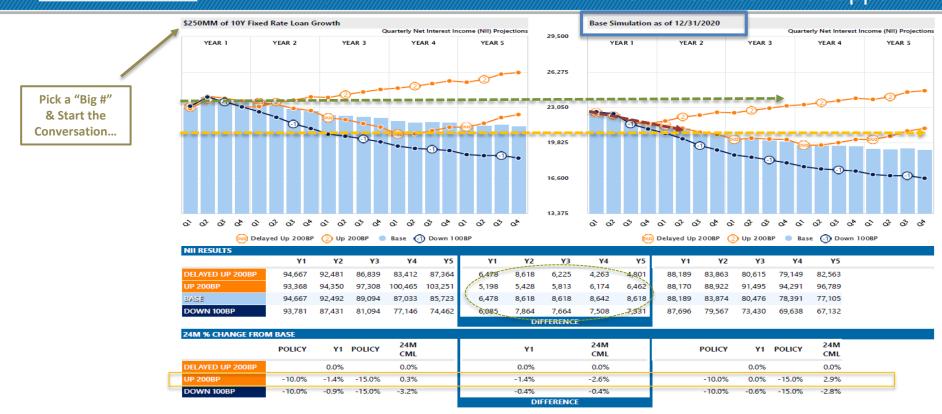
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- Look at Asset Strategies Through a Different Lens



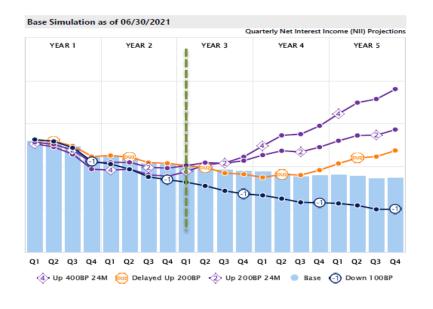
### Reality: Customer Demand for Fixed-Rate Product

### How Much Can We Support?





# What if My FI Is *Not* "Flush With Cash Liquidity"?



#### **Balance Sheet Says:**

"Capacity to Support Fixed-Rate Assets w/ 2-Year Funding"

(e.g. FHLB @ 35bp)

Key Decision: Current vs. Future NII

**Also Exposed to Declining Rates...** 

Wholesale funding with call feature, or variable structure w/ caps

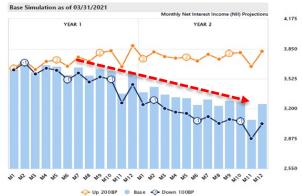


### Residential Lending: Sell vs. Hold?

### Are the Dynamics of "the Debate" Changing?







- 2021 Looking "OK" for Most, But.....
  - Earnings pressure looming!
    - PPP forgiveness
    - Secondary market outlook slowing
      - Activity levels due to lower refis
      - Gains on sale trending lower
- Break-Even Dynamics for Selling "Less Compelling" for **Growing Number of Institutions**
- Important Considerations
  - 2021 vs. 2022 earnings outlook
    - Current vs. prospective earnings
    - Creating an "annuity" today
  - IRR profile
  - Credit Risk (Property Values?)
  - Role of last-of-layer swaps







- START w/ Deposit Strategy & Lending Strategy
- Establish "what moves the needle"
- Prioritize investment objectives & "tie-breakers" (No free lunch...DO YOUR HOMEWORK)
  - Yield stability / Option risk (& premium risk)
  - Duration (price risk)
  - > Capital gain potential
  - Credit risk
  - > Liquidity
- ◆ Level set discussions re: unrealized losses (Monday Morning QBs)
  - Philosophy in general
  - > Tangible BV & Role of HTM (CECL considerations)
- Pre-Investment as "yield enhancement"
- Barbell strategy & other comments......





No 'one size fits all' model



# \$75MM Cash Extension to MBS (20 & 30 year)



Investment Purchase Simulation assumes \$75 million in cash (yielding 0.15%) is used to fund 6-8 year average life MBS purchases (yielding a weighted-average 1.85%).





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# CORE DEPOSIT STRATEGY







#### What Will Drive "the DEPOSIT Market"?

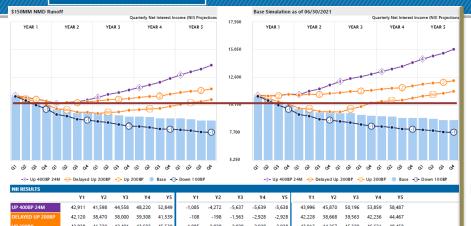


- How fast will loan demand accelerate?
- Will deposit pricing lags be more pronounced until record excess liquidity "sufficiently absorbed"?
- Will prior customer/member behavior patterns repeat?
- Will competition behave differently?
- Will competition be redefined?
- Will FIs hold more cash than normal in next cycle, or rely on access to wholesale markets?
- ♦ Will...?

How Comfortable Will I Be "Letting Some Deposits Go"?



# Non-Maturity Deposit What If?



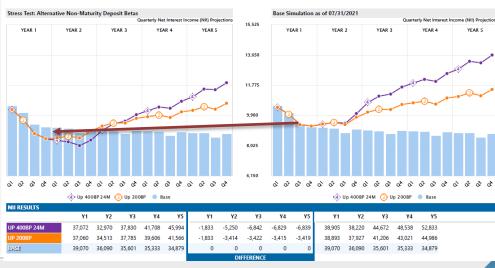
What If Portion of "COVID Surge" Disintermediated?

(this example: 1/3<sup>rd</sup> of the 43% increase in NMD since 3/2020)

How Does It Dampen NII Responsiveness to Rising Rates?

# What If Deposit Rates Become More Sensitive Than Expected?

(this example: double betas w/ cap of 100%)



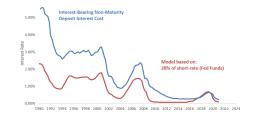


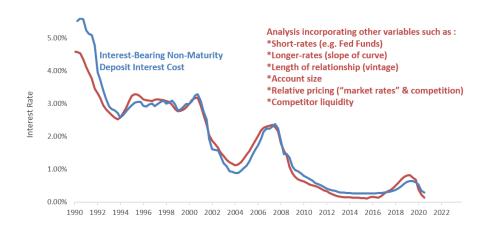
# "Predicting" Deposit Growth / Pricing

### The Relationship between Spread-Lag, Deposit Pricing & Volume

#### Role in Prospective Deposit Strategy

- When does it make sense to raise rates to mitigate decay?
- Confidence in lagging rates further...
- What product / pricing strategy likely to result in more
   \$ at lower marginal cost at points in rate cycle
- ♦ Key: Spread-Lag vs. \$ Balance Trade-Off "Curve"...
  - Inflection points and related slopes matter
  - Varies by product and balance ranges
- Marginal COF analysis





















#### Role of the ALCO *More Critical Than Ever*

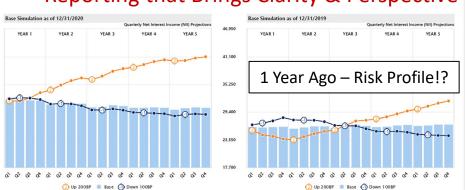
#### **Quality Data**

#### Quality Modeling that Gets "Right Picture"





#### Reporting that Brings Clarity & Perspective

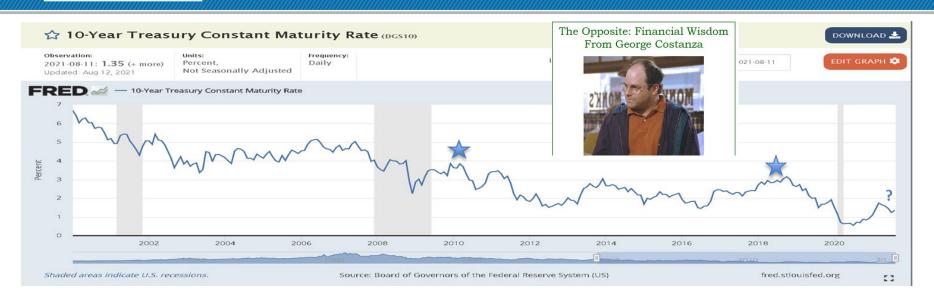


#### The Best-Informed People Asking Great Questions Leads to the Best Answers





#### Listen to Your Balance Sheet









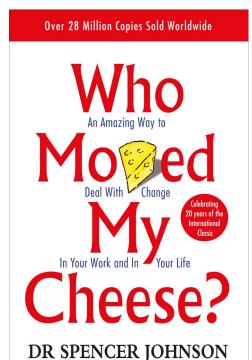








#### A Paradigm Shift



- Change Happens
  - They keep moving the cheese
- Anticipate Change
  - Get ready for the cheese to move
- Monitor Change
  - Smell the cheese often so you know when it is getting old
- Adapt to Change Quickly
  - The quicker you let go of old cheese, the sooner you can enjoy new cheese
- Change
  - Move with the cheese
- Enjoy Change!
  - Savor the adventure and enjoy the taste of new cheese
- Be Ready to Change Quickly and Enjoy It Again
  - They keep moving the cheese



