

2025 WICPA FINANCIAL INSTITUTIONS CONFERENCE

YOUR SOURCE FOR KEY UPDATES & INSIGHTS ON TIMELY ISSUES

HIGHLIGHTED TOPICS:



ARTIFICIAL INTELLIGENCE: IMPACTS FOR COMMUNITY FINANCIAL INSTITUTIONS

Review the opportunities and risks of leveraging different types of Al in financial services



ECONOMIC & FINANCIAL MARKETS OUTLOOK

Gain insights into forecasts on GDP, Fed policy, interest rates and investment opportunities in the fixed-income market



AML IN FINTECH: COMPLIANCE & RISK MANAGEMENT ESSENTIALS

Explore the risks of fintech companies and their banking partners under the Bank Secrecy Act and anti-money laundering regulations

2025 WICPA FINANCIAL INSTITUTIONS CONFERENCE

MATERIALS AT A GLANCE

The following materials are from the afternoon sessions of the 2025 WICPA Financial Institutions Conference held on Tuesday, May 13, including:

- Artificial Intelligence: Impacts for Community
 Financial Institutions
- ALM Hot Buttons & Strategies for Success
- Ethics & Decision Making

2025 WICPA GOLF OUTING

FRIDAY, SEPT. 19 - Ironwood Golf Course, Sussex



\$380 for Foursome

REGISTRATION INCLUDES

18 Holes of Golf With Cart Practice Greens & Driving Range Continental Breakfast & Lunch **Beverage Vouchers** Hole & Event Contests Entry in Prize Drawings Awards Reception & Appetizers

Check-In & Breakfast

9:00 a.m.

Practice Greens

& Driving Range

10:00 a.m.

Shotgun Start

4:00 p.m.

Awards Reception.

Prize Drawings & Appetizers

HOLE & EVENT PRIZES \$1,000+ in Drawing Prizes

\$500+ in Individual Prizes

\$500+ in Team Prizes

\$500 Inside the Circle Contest



SAVE THE DATE!



UPCOMING WICPA CONFERENCES & SPECIAL EVENTS

CONFERENCES

WICPA conferences are your source for key updates and insights on timely issues. As a WICPA member, you can save up to \$150 on registration!

Business & Industry Spring Conference

Thursday, March 20
Brookfield Conference Center & WICPA CPE Livestream

Financial Institutions Conference

Tuesday, May 13
WICPA Office & WICPA CPE Livestream

School District Audit Conference

Thursday, May 29 WICPA CPE Livestream Only

Business & Industry Fall Conference

Tuesday, Sept. 9
Brookfield Conference Center & WICPA CPE Livestream

Not-for-Profit Accounting Conference

Tuesday, Sept. 16
WICPA Office & WICPA CPE Livestream

Tax Conference

Monday, Nov. 10 - Tuesday, Nov. 11 Brookfield Conference Center & WICPA CPE Livestream

Accounting & Auditing Conference

Thursday, Nov. 20
WICPA Office & WICPA CPE Livestream

Accounting Technology Conference

Thursday, Dec. 4
WICPA Office & WICPA CPE Livestream

SPECIAL EVENTS

WICPA special events are unique opportunities to connect with fellow members and provide a great way to socialize and have fun!

Member Recognition Banquet & Annual Business Meeting

Friday, May 9
Brookfield Conference Center

New CPA Banquet

Friday, June 13 Brookfield Conference Center

Golf Outing

Friday, Sept. 19 Ironwood Golf Course

Bowling Night

Thursday, April 30, 2026 New Berlin Ale House

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wicpa.org/Livestream wicpa.org/OnDemand



Participate in planning a WICPA conference and enjoy:

- FREE registration* (a \$300-\$400 value!)
- ② Exclusive networking
- Leadership skill development
- Recognition for your WICPA involvement
- O Informal CPE credit
- * To receive free conference registration:
 - attend one planning meeting ~ 2 hours
 - select topics
 - · contact speakers
 - introduce speakers at conferences

2025 CONFERENCESAccepting Volunteers











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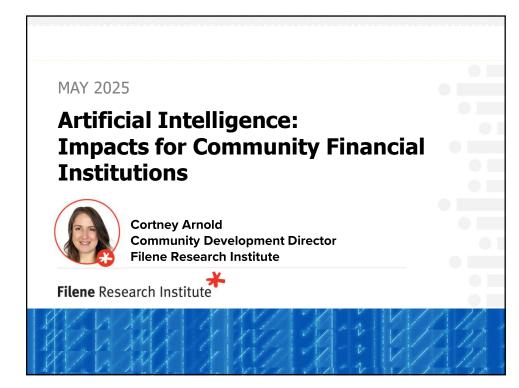
To get started, visit wicpa.org/cpetracker



1:10 - 2:10 p.m.

Artificial Intelligence: Impacts for Community Financial Institutions

Cortney Arnold, Community Development Director, Filene Research Institute



ABOUT FILENE

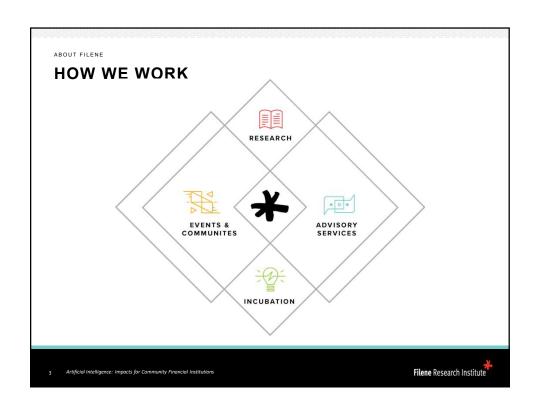
WHO WE ARE

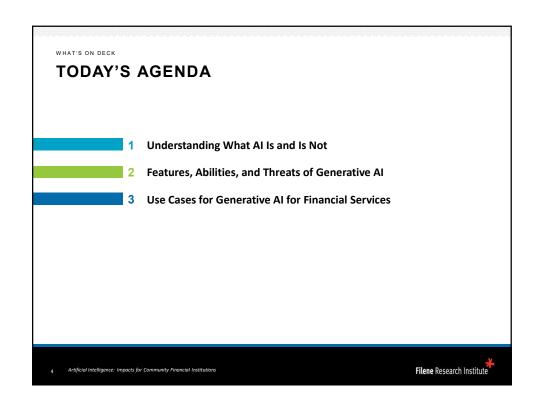
FILENE RESEARCH INSTITUTE strengthens organizations and the people they serve through innovative research and incubation.

We conduct research, pilot and test new ideas, build dynamic communities, and offer proven and sustainable solutions that create meaningful impact for credit unions and drive positive change for credit union members.



Artificial Intelligence: Impacts for Community Financial Institution





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WHAT IS AI?

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ARTIFICIAL INTELLIGENCE (AI)

Exhibiting or simulating intelligent behavior (while not being intelligent).



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WHAT COUNTS AS "AI" IS CHANGING



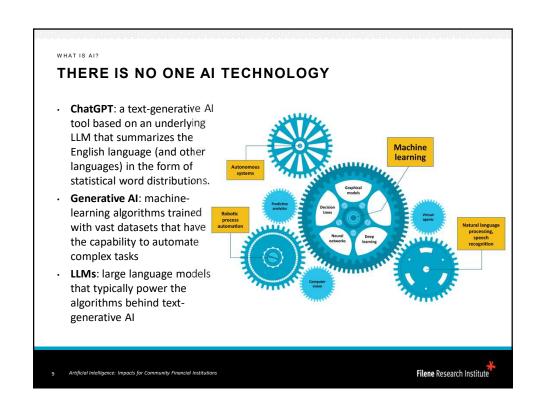
Artificial intelligence (AI) is an umbrella term encompassing a range of technologies that try to replicate human reasoning, learning, or decisionmaking. Al relies on algorithms that prioritize, classify, associate, and filter information.

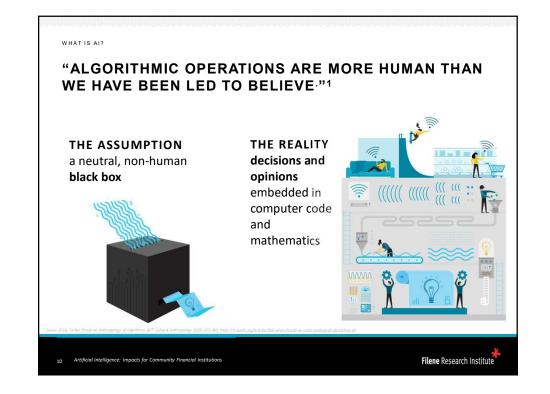
YESTERDAY'S AI

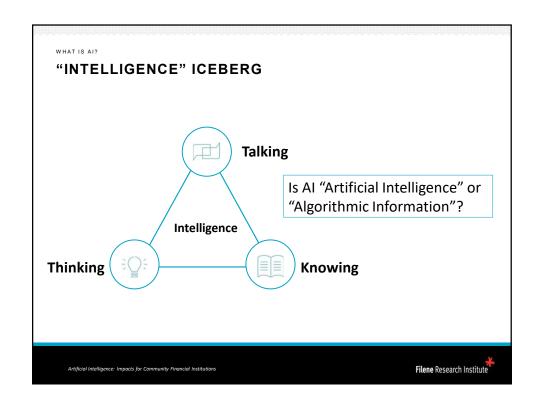




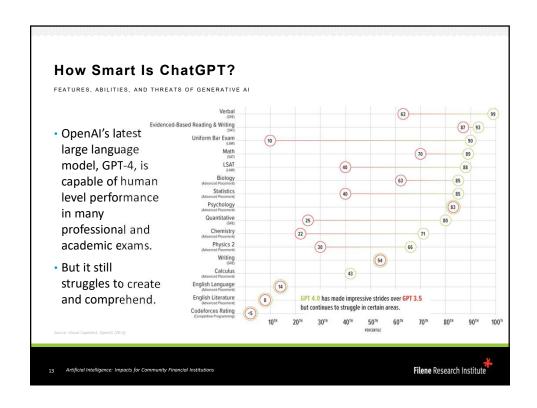
- · Deductive and rule-bound.
- · Little need to learn or reason on its own, because it does not encounter new situations that require adaptation.
- · Think of pre-programmed software, such as a computer that plays chess.
- · Inductive and open-ended.
- · Learns and adapts through trial and error, probabilistic guesswork, and iterated pattern recognition as it incorporates new information from new situations.
- · Think of a baby encountering the world for the first time.

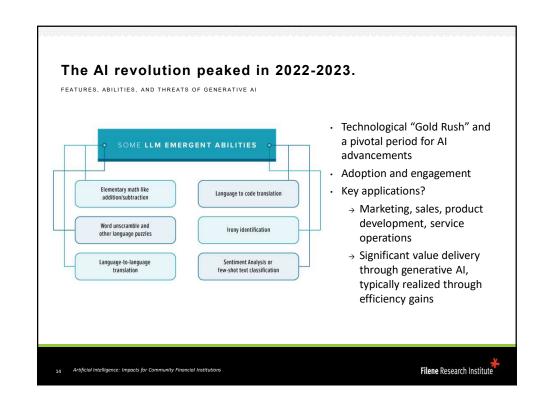


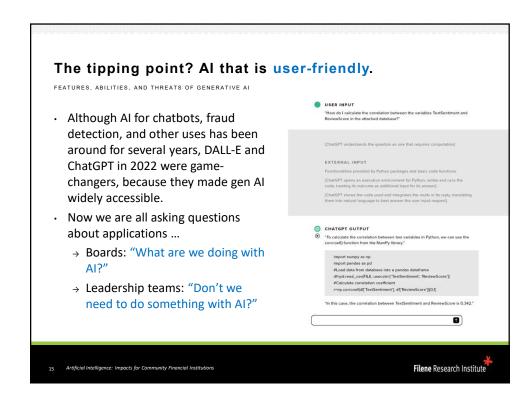












Al Risks, Ethics, and Governance

FEATURES, ABILITIES, AND THREATS OF GENERATIVE AI

- There are no accepted regulatory or compliance frameworks for generative AI, yet
- Focus for financial services is increasingly on EXPLAINABLE AI to provide transparency in understanding AI outputs and AI-driven decisions
- Explainable AI should empower stakeholders to understand not just intention but impact

"So, while AI can allow credit unions to achieve great efficiencies and provide innovative services, we must tread carefully to ensure that our pursuit of technological advancement does not compromise our core values of fairness, transparency, and consumer protection."

CHAIRMAN HARPER

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Al Risks, Ethics, and Governance

FEATURES, ABILITIES, AND THREATS OF GENERATIVE AI



The current trend seems to be to push authorship (and responsibility) onto the final user. So, while institutions can benefit from the wealth of easily generated content, the bigger question is whether they should let AI technologies be the voice of their institutions.

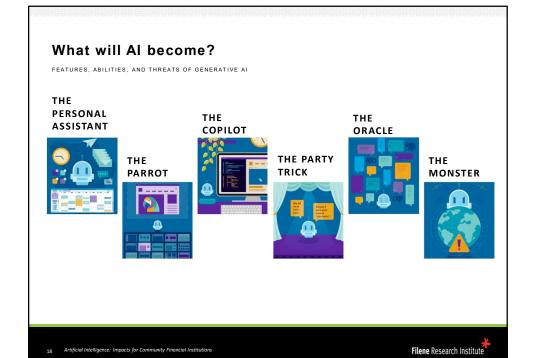
OWNERSHIP

Institutions using text AI services should expect information they input into their models to be shared by the AI service providers with unspecified third parties for business purposes. 1 Ownership of the output of TextGen AI is important, but it also pays to consider matters of privacy and ownership over the input a user enters into these models.

PRIVACY

If your institution has a website, your organization's branding, social media activity, products list, and everything else you have listed have most likely been digested by one LLM or another. The only reasonable assumption is that everything freely available can be used, and probably has been used, to

train TextGen Als.

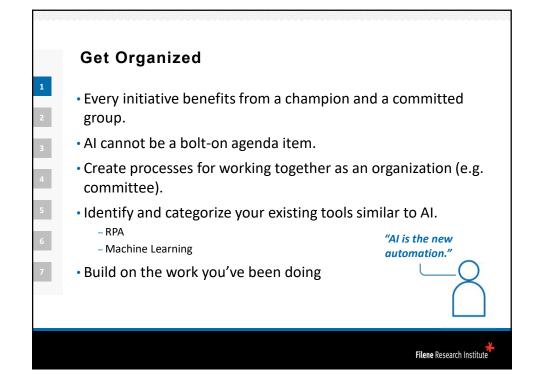


The Imperative of AI Ethics in Financial Institutions FEATURES, ABILITIES, AND THREATS OF GENERATIVE AI Introduction to the critical importance of AI ethics in the integration within financial systems. Core principles of AI ethics: adherence to legal, moral, and societal standards. The essential role of leaders in ensuring AI fosters fairness, accountability, and privacy.

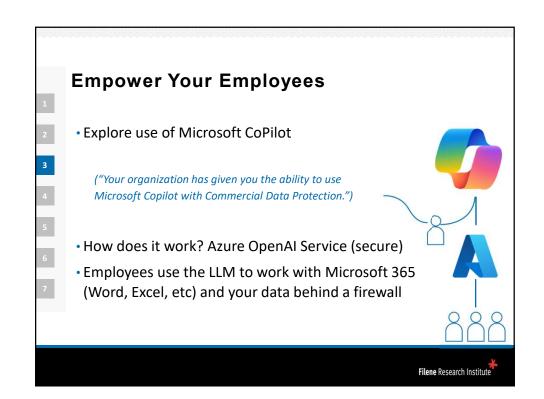
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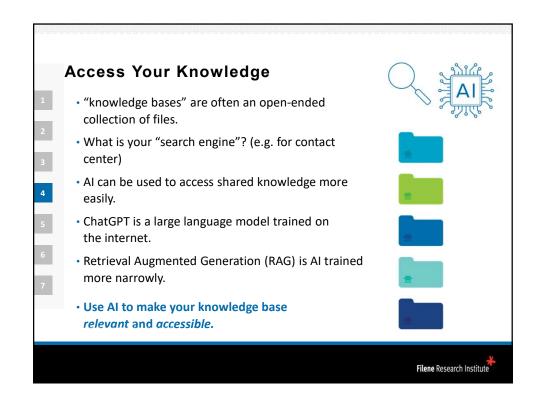
WHAT CAN FINANCIAL SERVICES DO WITH AI IN 2025?

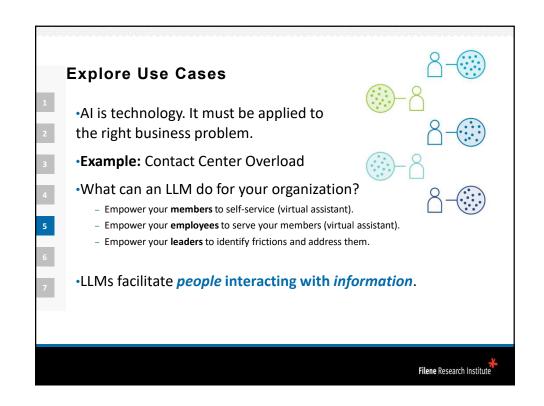
What Can Financial Services Do With Al in 2025? 1. Get Organized 2. Start Listening 3. Empower Your Employees 4. Access Your Knowledge 5. Explore Use Cases 6. Collaborate With Others 7. Create Customer/User Value

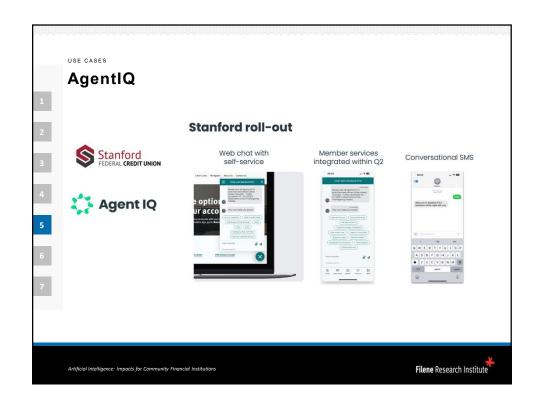


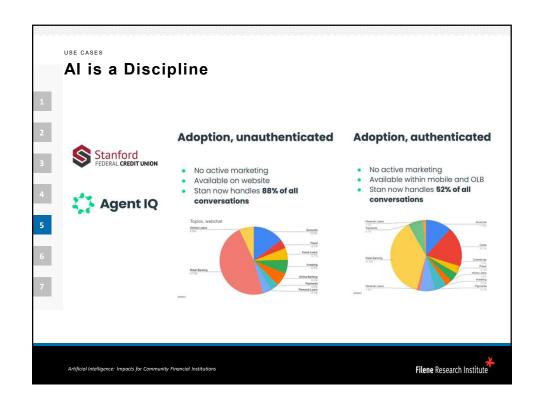


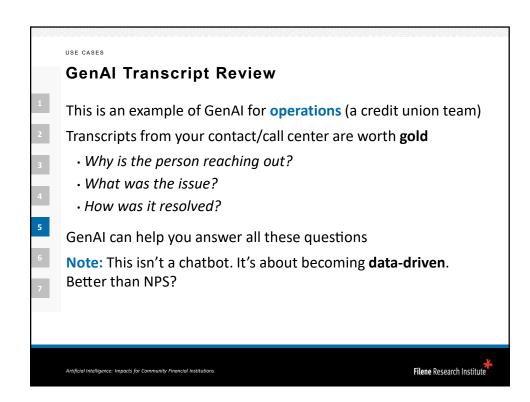


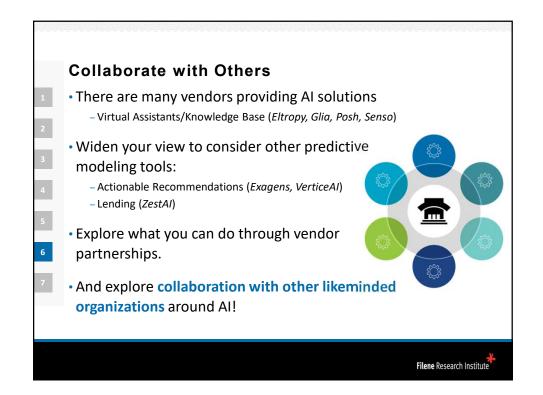


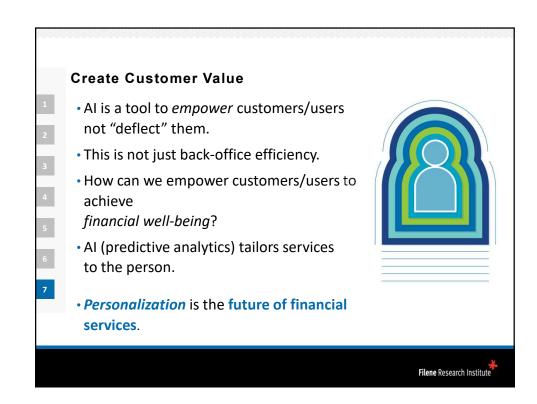


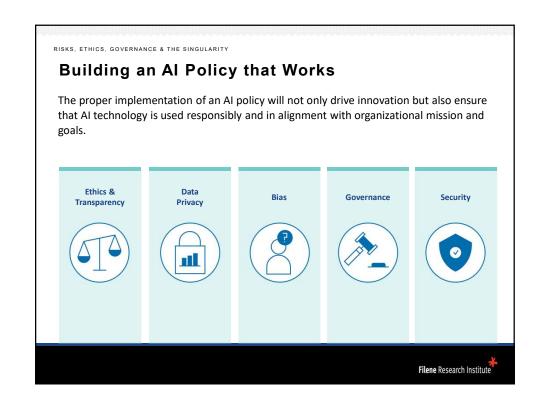












RISKS, ETHICS, GOVERNANCE & THE SINGULARITY

Actionable Steps for Al Integration in Credit Unions

DEVELOP A COMPREHENSI AI STRATEGY

- Define the AI strategy specific to your organizational needs and goals.
- Identify starting points and assess the risk of different approaches.
- Emphasize the importance of a thoughtful strategy that includes where to start.

ESTABLISH AI ETHICS WITH BOARD INVOLVEMENT

- Engage your board in developing a code of ethics for Al usage.
- This proactive measure allows the organization to navigate AI use cases with a pre-approved list of opportunities, rather than reacting to market pressures.

BALANCE RISK AND INNOVATION

- Address the risk-averse nature that may hinder AI adoption.
- Encourage a balanced approach to AI use, cautioning against draconian measures that fully ban AI, emphasizing the importance of not missing out on valuable innovation.

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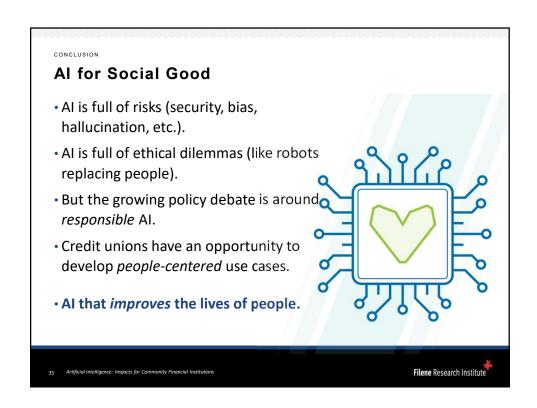
Key Points

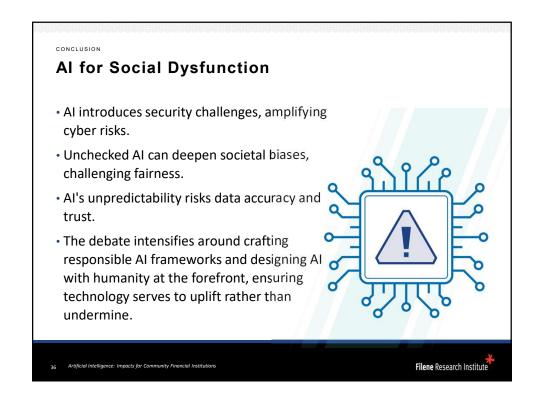
Adapting to AI: Do or Die

AI: A Handy Tool, Not Our Replacement

AI's Role: From the Member to the Board Member

AI & Risk: Finding the Sweet Spot





CONCLUSION

Financial Services and AI in 2025

- This is not the time to get stuck debating a dystopian future.
- AI is tool that can be used today.
- Let's learn how to empower employees with AI.
- Let's explore ways to create value with AI.
- Let's advocate for social good in the future of AI.



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CLOSING THOUGHTS

AI IS A DISCIPLINE NOT A PRODUCT

Empower Your Future with Organized Data

 Preparing your data today ensures that AI can deliver personalized services, enhance operational efficiency, and provide robust risk management for your organization tomorrow.

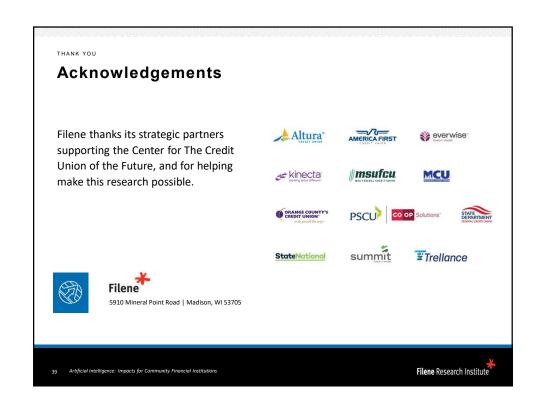
Tailor Your AI Approach

• Whether you choose to build, buy, or configure AI solutions, there's no onesize-fits-all. Assess your organization's unique needs, resources, and expertise to find the best path forward.

Leverage AI for Innovation and Growth

 By strategically implementing AI, your organization can stay competitive, improve customer and user experiences, and drive future growth in an evolving financial landscape.

Artificial Intelligence: Impacts for Community Financial Institution





2:20 - 3:20 p.m.

ALM Hot Buttons & Strategies for Success

Marc Gall, Senior Vice President, BOK Financial



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About BOK Financial

BOKFinancial.com/Institutions

BOKF, NA is the bank subsidiary of BOK Financial Corporation (BOKF), a \$50 billion regional financial services holding company based in Tulsa, Oklahoma (NASDAQ:BOKF). BOKF offers trust and wealth management services through its subsidiaries including BOKF, NA (and its banking divisions Bank of Oklahoma, Bank of Texas, Bank of Albuquerque, and BOK Financial) and investment advisory services through its non-bank subsidiaries, Cavanal Hill Investment Management, Inc., and BOK Financial Private Wealth, Inc., each an SEC registered investment adviser, and BOK Financial Securities, Inc., also an SEC registered investment adviser and registered broker/dealer, member FINRA/SIPC.

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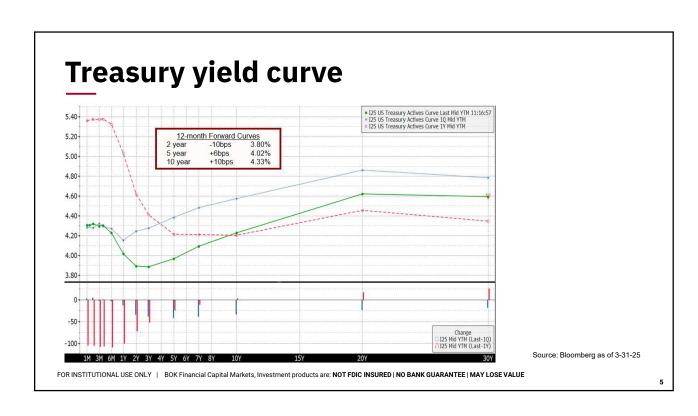
- Interest Rate Risk Management
- Independent Model Validations
- · Deposit/Decay Studies
- · Investment Portfolio Management
- · Asset / Liability Management (ALCO) Consulting

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Session topics

1. Interest rate environment
2. Key assumptions in IRR modeling
3. Liquidity management and monitoring
4. Driving performance in 2025
5. Securities portfolio – investment allocation, possible sales / restructuring

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Key takeaways from March FOMC meeting

- Downgraded GDP Growth to 1.7% in 2025 & 1.8% in 2026
- · Continues to project unemployment to be relatively steady
- Median forecast for PCE inflation, the Fed's preferred gauge, settles in the 2.0% range, but remains elevated in 2025 (Projected 2.8% vs December projection of 2.5%)
- · Fed funds forecast the same as December at 3.9% year-end 2025, and 3.40% end of 2026

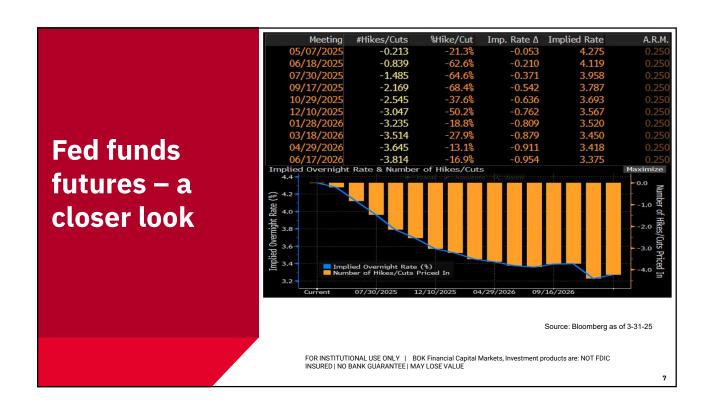
 $\begin{array}{c} {\rm Table~1.~Economic~projections~of~Federal~Reserve~Board~members~and~Federal~Reserve~Bank~presidents,} \\ {\rm under~their~individual~assumptions~of~projected~appropriate~monetary~policy,~March~2025} \end{array}$

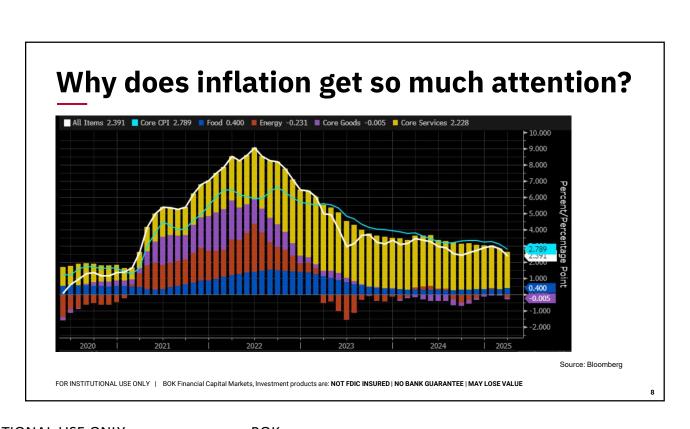
	Median ¹				Central Tendency ²				Range ³			
Variable	2025	2026	2027	Longer run	2025	2026	2027	Longer run	2025	2026	2027	Longer run
Change in real GDP December projection	1.7 2.1	1.8 2.0	1.8 1.9	1.8 1.8	1.5-1.9 1.8-2.2	1.6-1.9 1.9-2.1	1.6-2.0 1.8-2.0	1.7-2.0 1.7-2.0	1.0-2.4 1.6-2.5	0.6-2.5 1.4-2.5	0.6-2.5 1.5-2.5	1.5-2.5 1.7-2.5
Unemployment rate December projection	4.4 4.3	4.3 4.3	4.3 4.3	4.2 4.2	4.3-4.4 4.2-4.5	4.2-4.5 4.1-4.4	4.1 - 4.4 $4.0 - 4.4$	3.9-4.3 3.9-4.3	4.1 - 4.6 $4.2 - 4.5$	4.1 - 4.7 $3.9 - 4.6$	3.9-4.7 3.8-4.5	3.5-4.5 3.5-4.5
PCE inflation December projection	2.7 2.5	2.2 2.1	2.0 2.0	2.0 2.0	2.6-2.9 2.3-2.6	2.1-2.3 $2.0-2.2$	2.0-2.1 2.0	2.0 2.0	2.5-3.4 2.1-2.9	2.0-3.1 2.0-2.6	1.9-2.8 2.0-2.4	2.0 2.0
Core PCE inflation ⁴ December projection	2.8 2.5	2.2 2.2	2.0		2.7-3.0 2.5-2.7	2.1-2.4 2.0-2.3	2.0-2.1 2.0		2.5-3.5 2.1-3.2	2.1-3.2 2.0-2.7	2.0-2.9 2.0-2.6	
Memo: Projected appropriate policy path				i				i				
Federal funds rate December projection	3.9	$\frac{3.4}{3.4}$	3.1 3.1	3.0 3.0	3.9-4.4 3.6-4.1	3.1-3.9 3.1-3.6	2.9-3.6 2.9-3.6	2.6-3.6 2.8-3.6	3.6-4.4 $3.1-4.4$	2.9-4.1 2.4-3.9	2.6-3.9 2.4-3.9	2.5-3.9 2.4-3.9

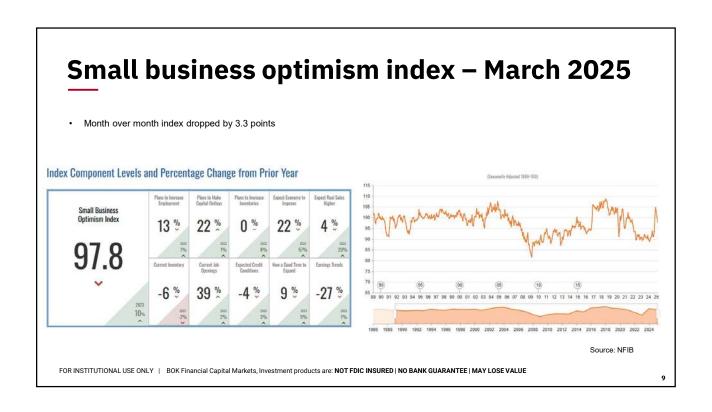
Source: Federal Reserve

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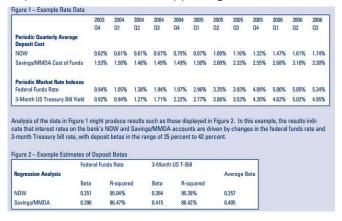




Interest rate risk - assumption review

Deposit beta calculation, supporting data

· How do you model in migration risk?



Example summary of results:

Jan 2016 - Jun 2019 (Rising Beta)	Beta
NOW Accounts	-0.01
HSA Checking	0.01
Money Market Accounts	0.43
Savings Accounts	0.07

Jul 2019 - Mar 2021 (Falling Beta)	Beta	
NOW Accounts	0.02	
HSA Checking	0.07	
Money Market Accounts	0.52	
Savings Accounts	0.14	

Source: FDIC

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Market value of equity – conceptual example

<u>Asset</u>

- > The bank makes a \$1 million 5 year fixed rate loan today at 7.00%.
- $\,\,$ $\,$ Market rates on 5 year loans rise next year to 8.00%
- If the bank had to sell the loan to someone else, the investor would not be willing to pay \$1 million for the 7.00% loan. They would pay something less, because new loans are at 8.00%. *Loss*

Liability

- > The bank funds the loan above with a \$1 million 3 year FHLB borrowing at 4.00%
- > FHLB advances rates rise next year to 5.00%
- If the bank could sell the advance to someone else, the investor would be willing to pay more than \$1 million for the borrowing at 4.00% because the new borrowing cost is 5.00%. *Gain*
- Market value of equity uses the same idea on every item of the balance sheet. Asset Value Liability Value = Equity. (Rearranged A = L + E)
- > Why look at MVE? Rate shock of income generally looks at a one two year "window". What risk exists outside of that window?

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What's decay?

- · "Institution specific" as this assumption is critical in market value of equity calculation
- · One possible approach:
 - Judeally review over a 10-year period (rising and falling rate cycles)
 - > Should more recent period be weighted more or only considered for assumption?
 - Measure number of accounts closing in comparison to total at beginning of period
 - Measure balance of closed accounts vs. total balance for that account type
 - Need to take "surge" balances into account (assign shorter decay to these balances)
 - Should a cap / max term be applied to results?
- · Analysis is completed for non-maturing deposit accounts
 - Money Market Accounts
 - Savings Accounts
 - > NOW Accounts
 - Checking Accounts

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How are NMD assumptions used?

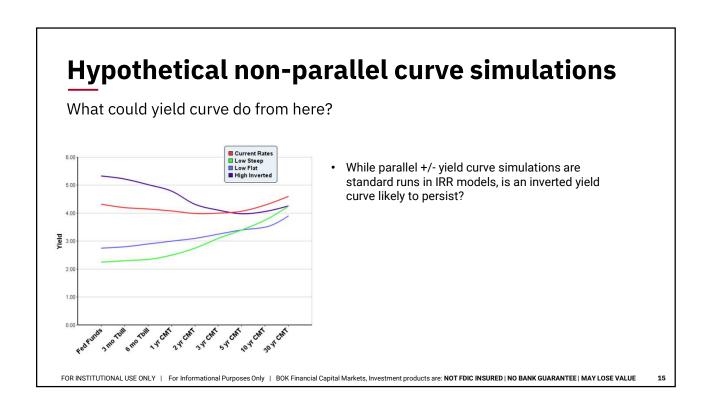
- Economic value of equity (net economic value) analysis is similar to a present value calculation
- · Present value calculation uses:
 - · Cashflow over future time horizons
 - Interest rate
 - Discount rate typically an alternate funding cost (ex. if we did not have these deposits, what would the rate be on a like term deposit/funding option?)

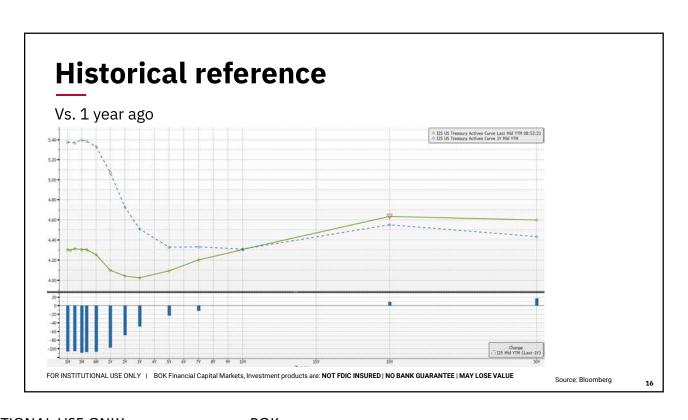
Hypothetical example

	Total		Total	Discount	Discount	Discount	Discounted	Cashflow
Period	Maturity	Payment	Cashflow	Rate	Period	Factor	Cashflow	x Period
30 Jun 27	469	68	538	4.18	27	0.91039	489	13,214
31 Jul 27	469	70	539	4.18	28	0.90723	489	13,692
60 Dec 29 61 2034	469 25,799	46 1,227	515 27,026	4.18 4.18	57 87	0.82020 0.73895	422 19,971	24,078 1,737,493
	52,536						47,726	2,504,936
Current Balance: Current Yield: Market Rate:		52,536 1.89 2.08		,	Macaulay's Duration: Modified Duration:		52.486 52.395	months months

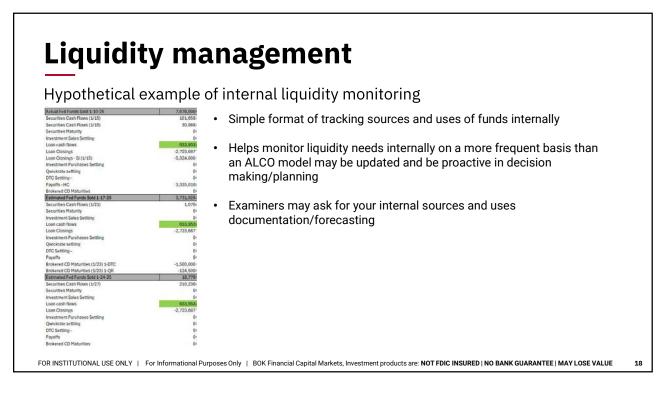
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Maximizing availability and collateral value

- · Brokered / internet deposits does not require collateral
 - · Are you set up to use these sources?
- Municipal, large deposits may require collateral, but some are not specific as to what type of collateral
 - Consider municipal securities for pledging, unless they can be used elsewhere
 - · FHLB letter of credit for municipal deposits
- FHLB, Fed Discount Window may accept many types of loans as collateral (may take time to set up)



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Liquidity stress testing, early warning indicators

- Stress testing frequency more than just annual exercise
- Develop scenarios that would negatively impact the bank's ability to operate
 - · Core deposit loss
 - Loss of large depositor (s)
 - · Increase of loan funding
 - Impacts of falling below well capitalized
- Vary timing of events short term vs. long term horizons

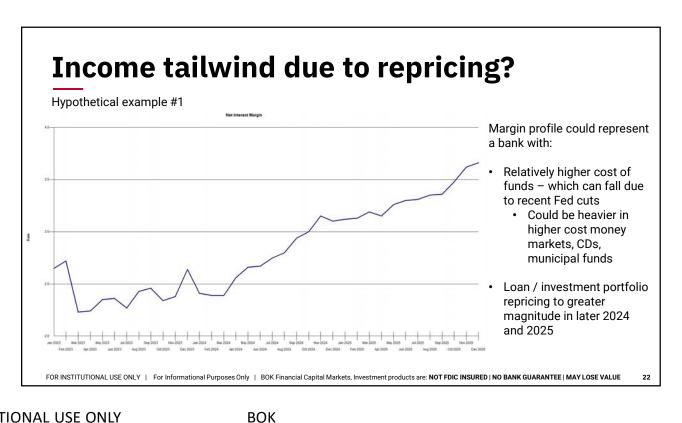
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To a pulso to a son construit para respect	Mar-24	Level 1	Level 2	Level 3
Liquidity and Funding Needs				
Primary Liquidity (On Balance Sheet)	29.15%	12,00%	10.00%	8.00%
Total Liquidity (On and Off Balance Sheet)	55.80%	20,00%	15.00%	10,00%
Net Loans to Deposits	73.32%	90.00%	95.00%	100.00%
Net Noncore Funding Dependence (\$250M)	0.00%	25.00%	30.00%	35.00%
Short Term Noncore Funding Dependence (\$250M)	0.00%	20.00%	25.00%	30.00%
Brokered Deposits to Deposits	0.00%	10.00%	12.50%	15.00%
Brokered Deposits to Assets	0.00%	15.00%	20.00%	30.00%
Listing Service Deposits to Deposits	0.00%	10.00%	12.50%	15.00%
FHLB Borrowings to Assets	0.00%	10.00%	15.00%	20.00%
FF Purchased to Deposits	0.00%	3.00%	5.00%	7.00%
Capital		100000	70000	2000
Common Equity Tier One Capital Ratio	15.76%	8.50%	6.50%	4.50%
Tier One Leverage Capital Ratio	10.25%	9.00%	7.00%	5.00%
Tier One Risk Based Capital Ratio	15.76%	12.00%	10.00%	8.00%
Total Risk Based Capital Ratio	17.01%	14.00%	12.00%	10.00%
Capital at Risk				100000
Classified Assets to Total Capital	1.06%	15.00%	25.00%	35.00%
Nonperforming Loans to Total Loans	0.20%	2.50%	3.50%	5.00%
Net Income (Loss) - Six Months	4,568,513	1,000,000	500,000	250,000

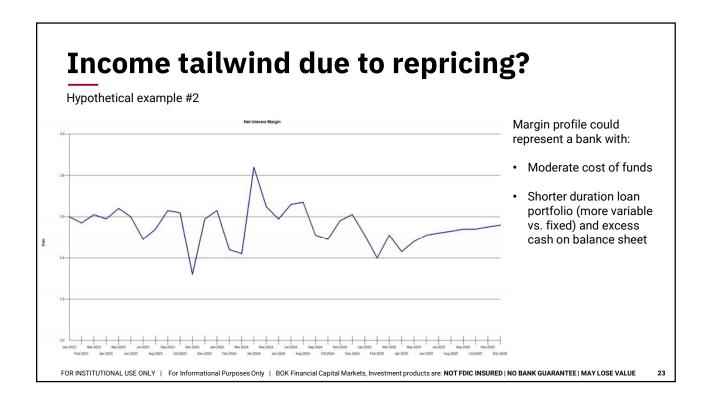
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Drivers of performance - loans

How can your institution maximize opportunity this year?

- · Every basis point counts!
- · As loans come up for renewal (balloon maturities), are loans being fully brought "up to market"?
 - Hypothetical example maturity at 4.00%. Your typical pricing for credit/structure would be 7.25%.
 - Do lenders "meet in the middle" or raise the rate, but not as much to try and keep a client from having "too much" rate increase?
 - · If interest rates fall, will your institution keep a consistent spread vs. index?
- Implementing and holding prepayment penalties in loans
 - In lieu of prepayment penalty, loan rate should reflect the option the client has to refi/payoff early

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Prepayment penalty in practice

- Does your institution enforce a prepayment penalty if refinanced at your institution?
- If your penalty is 2%, how much of an impediment to refinance is that?



Hypothetical Example:

- Make a loan at 6.50%
- Solving for breakeven with a 2% penalty, after year 1...
- 2% penalty / 4 remaining years = 50 bps per year of savings to breakeven. (3%/4 years = 75 bps lower rate to breakeven)
- If customer can refinance at 6.00% or lower **and** the bank actually charges the 2% penalty (\$20,000), the customer would be in the money to refinance if rates fall below 6.00%

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Drivers of performance - deposits

How can your institution maximize opportunity this year?

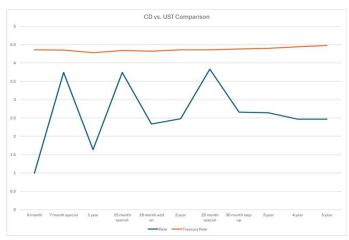
- · Deposit pricing can be more art than science
- Do your rates need to be "highest in market?"
 - · How close is good enough?
- · Core deposit acquisition and growth
 - Does your institution have a strategy to grow core deposits
 - · Potential replacement of higher cost wholesale with lower cost core deposits
- CD specials how to get a reprieve from short and frequent repricing of CD specials?
- · Every basis point counts!

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When did you last adjust your "standard rates?"



Hypothetical illustration

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Discussion on deposit products

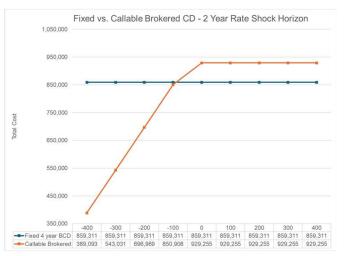
- 1. Review your deposit account lineup
- 2. Examine how customers use your accounts (what is the purpose/utility for each?)
- 3. Differentiate rate on account based on #2
- 4. How much emphasis is placed on business/commercial deposits?
- 5. Does your institution selectively match rates (individually by customer?)
- 6. Prepare pricing plan if Fed continues to cut rates

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Callable brokered CD

Hypothetical illustration of \$10mm callable vs. non callable brokered CD

- 4 year non-callable brokered CD 4.30%
- 4 year non-call 6 month brokered CD 4.65%
- While the cost is higher for a callable compared to non-callable, the benefit is significant if interest rates fall and the call is exercised (callable cost includes amortizing the placement fee during this period)
- For interest rate risk position, this structure would help protect against rising rates, while providing cost savings in lower rate scenarios



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FHLB fixed, callable and putable options

"Bank" in this example is FHLB, "Member" is your institution

	Fix	ed Rate Adva		
Term	Community Advances	Regular Advances	All-in After Dividend*	Forward-Startin
1 week	77	4.46%	4.28%	
2 weeks		4.46%	4.28%	Advances settle
3 weeks		4.46%	4.28%	one year forward
1 month	4.36%	4.46%	4.28%	from today and then have stated
3 months	4.36%	4.46%	4.28%	term to maturity
6 months	4.27%	4.37%	4.19%	
9 months	4.18%	4.28%	4.10%	
1 year	4.02%	4.13%	3.95%	3.98%
1.5 years	4.00%	4.10%	3.92%	4.02%
2 years	3.95%	4.06%	3.88%	4.08%
2.5 years	3.95%	4.06%	3.88%	4.13%
3 years	3.99%	4.09%	3.91%	4.19%
3.5 years	4.02%	4.12%	3.95%	4.24%
Fixed Rat	e Callable Advan	ces (Member-		ided Option)
Term	Lockout	Bermudan	All-in After Dividend*	Option Cost
2 years	6 months	4.70%	4.53%	0.65%
2 years	1 year	4.28%	4.10%	0.23%
3 years	6 months	4.85%	4.67%	0.76%
3 years	1 year	4.54%	4.37%	0.45%
5 years	6 months	5.20%	5.02%	0.96%
5 years	1 year	4.90%	4.72%	0.65%

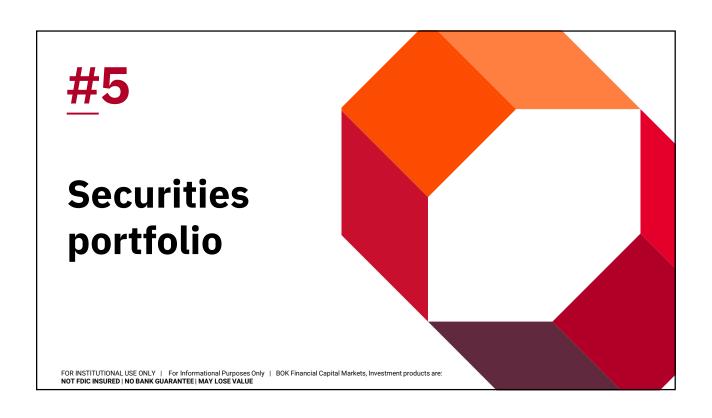
Term	Lockout	European	All-in After Dividend*	Option Value
3 years	6 months	3.56%	3.38%	-0.81%
5 years	6 months	3.44%	3.26%	-0.93%
7 years	6 months	3.42%	3.24%	-0.95%
10 years	6 months	3.47%	3.29%	-0.90%
3 years	1 year	3.61%	3.43%	-0.51%
5 years	1 year	3.46%	3.28%	-0.67%
7 years	1 year	3.42%	3.24%	-0.70%
10 years	1 year	3.45%	3.27%	-0.68%
5 years	2 years	3.61%	3.43%	-0.45%
7 years	2 years	3.51%	3.33%	-0.55%
10 years	2 years	3.48%	3.30%	-0.58%
7 years	3 years	3.67%	3.49%	-0.42%
10 years	5 years	3.84%	3.66%	-0.40%
Term	Lockout	Bermudan	All-in After Dividend*	Option Value
5 years	6 months	3.13%	2.95%	-1.24%
7 years	6 months	2.95%	2.77%	-1.42%
10 years	3 months	2.74%	2.56%	-1.72%

Example, compare three year terms for illustration of value to the balance sheet, income statement

Source: FHLBC 4/14/25

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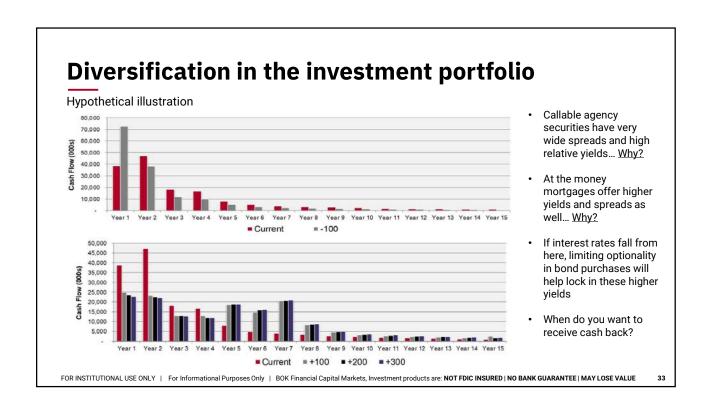


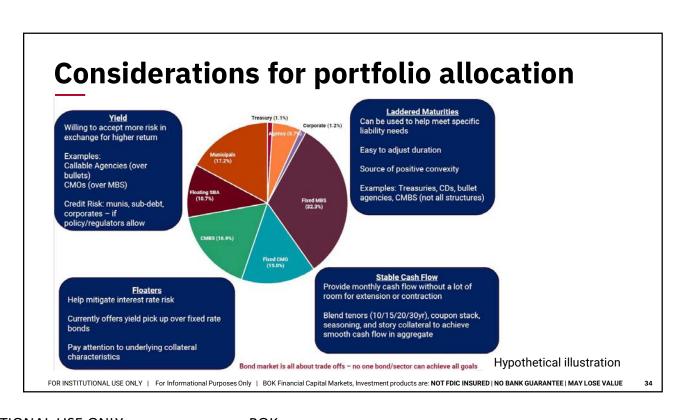
Role of the investment portfolio

- Liquidity source
 - · Place to earn on excess liquidity while waiting for loan demand to materialize
 - On balance sheet store of liquidity
 - Unlike borrowing sources, bank's ability to use portfolio for funding is not contingent on the bank's credit position
 - · When viewing portfolio within liquidity context, understand:
 - Cash flows
 - Extension/contraction risk
- Earning asset
 - Lower yield than loan portfolio, but higher liquidity and lower risk
 - · View earnings/yield relative to holding cash vs. comparing to loan alternatives
- Other Benefits
 - · Collateral for deposits or borrowing
 - · Portfolio is a tool for managing interest rate risk

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To reinvest or not...

- · Consider identifying a target portfolio size
- · If you are not currently investing, when will be the "right" time to invest?
 - If your institution has a portfolio with substantial cashflow over the next 12-24 months, what may the rate environment be like when bonds need to be reinvested?
 - Adding in all rate environments may help average into the market
 - · Market timing is extremely difficult to get right everytime
- Set a quarterly strategy to determine what types of securities and maturities fit the balance sheet position best
 - · Strategy can adjust from quarter to quarter

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Now what?

Hypothetical investment sale for funding

Analysis of current holdings

Bank owns \$3 million of agency maturing Dec 2026

Current book yield = 0.75%

Book price = \$100

Sell in the current market at \$94.25

Sale yield/market yield/give up yield = 4.18%

Loss on sale: \$172,500

Review of alternatives

1.75 year funding cost at FHLB (Chicago) = 4.14%

1.75 year brokered CD cost = 4.18%

Over next 1.75 years, the interest cost on new funding nearly equivalent to selling investment (loss + foregone income)

However, taking loss could be unappealing for budget reasons.

2025: Loss on sale \$172,500

2025: Interest cost on new CD: \$94,050

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Now what?

Hypothetical loan funding example

Sale option

Bank owns \$3 million of agency maturing Dec 2026 Current book yield = 0.75% Book price = \$100

Sell in the current market at \$94.25 Sale yield/market yield/give up yield = 4.18%

Loss on sale: \$172,500

Reinvestment option

5 year loan = 7.00% reinvestment yield

Time to "recapture loss":

\$172,500 (loss on sale)

7.00% (reinvestment yield) – 0.75% (book yield) * principal proceeds

= 0.97 years to recapture loss

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Interest rate risk checklist

Interest rate risk reporting with comparison to policy limits

- Include 1 year and 2 year rate shock of income, EVE
- Is a non-parallel now most likely? Are our assumptions reasonable?

Listing of key assumptions used in the model and supporting documentation

- · Pricing assumptions, deposit decay rates, prepayment assumptions
- · With a recent rising rate cycle complete, confirm and update assumptions
- ${\boldsymbol{\cdot}}$ Need to be reviewed/approved by the board

Alternative assumption testing

 How sensitive are model results to the assumptions used (input different assumptions and compare results)

Liquidity stress testing

- Include sufficiently severe scenarios restricting use of brokered deposits, FF lines
- Review contingency funding plan, including any early warning indicators

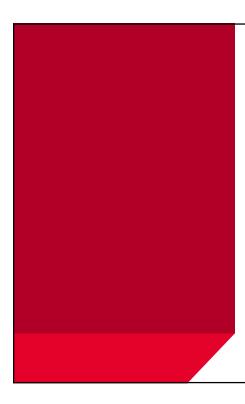
Independent Model Validation

- Completed by a party independent of the ALCO meeting
- ${\boldsymbol{\cdot}}$ Report with findings provided to the board

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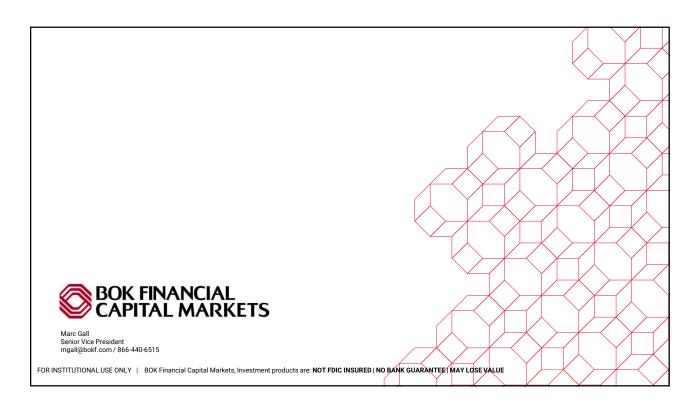


Key takeaways

- Understand where your income is headed, even without change in rates
- Is your balance sheet duration changing, by design or by demand?
- Examine deposit strategy for retention and cost of funds management
- Develop a mindset to maximize margin every basis point counts!
- Consider taking losses in the portfolio as a funding option or to reposition for higher income
- Ensure completion and documentation of expected interest rate risk and liquidity management process

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3:30 – 4:45 p.m.

Ethics & Decision Making

George Heyman, CPA, CGMA, Professor Emeritus of Accounting & Economics, Oakton College

An Ethical Culture WICPA- FINANCIAL INSTITUTIONS CONFERENCE

13 May 2025

George A Heyman, CPA, CGMA Professor Emeritus, Accounting and Economics gheyman@me.com 847.553.6118

RULES OF ENGAGEMENT

(The Engagement Letter)

1. No Smartphones or Computers (confidentiality)



- 2. Make Connections Network
- 3. Ask Questions
- 4. Consider Takeaways for Your Practice



5. Have a Good Time



CULTURE

- Beliefs Implicit assumptions (What are they?)
- Values Norms, principles, and standards (AICPA Code of Ethics) (The story)
- Behavior What we actually do
- Comfort Fair and equitable treatment
- Belonging Need to feel you belong because the culture is ethical

"It is our choices that show what we truly are, far more than our abilities."

- Harry Potter and the Chamber of Secrets, by J. K. Rowling



PROFESSIONAL CONDUCT Principles and Rules

- Integrity trust , judgment, observation
- · Objectivity influence and unbiasedness
- · Confidentiality information personal gain
- Competency Channel your inner Sherlock a questioning attitude

Making Decisions

- 1. People face trade-offs.
- 2. What people get is the cost of what they give-up.
- 3. Rational people make decisions on the margin.
- 4. People react to incentives.

Ethical decisions include: observation and prediction

SHERLOCK HOLMES

KNOWLEDGE

OBSERVATION

DEDUCTIVE REASONING

INQUIRY



Making Decisions



Act as if everything depends on you.

Ethical people are aware and observant – they notice.

Influence and Accountability

Ethical Behavior

- Rewarding ethical behavior
- Developing intrinsic ethical behavior
 - Can an ethical person have unethical behaviors?
 - Can guidelines keep people ethical?

ETHICAL DIFFERENCE

I did NOTHING WRONG

VERSUS

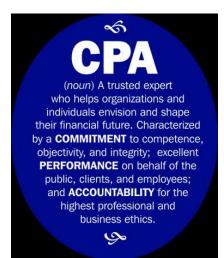
I did the RIGHT THING

"While I do not believe I ever did anything illegal...I've done an awful, awful lot that was wrong."

John Edwards on his acquittal/mistrial

100% legal – 10% ethical? Is doing the right thing the same as saying, "I did nothing wrong?"

Description Of CPA Ethics



ICPAS's INSIGHT Magazine

Spring 2013 Article, "Are You Ethical?"

- 1. Know thyself
 - www.lifevaluesinventory.org
- 2. Anticipate questionable scenarios
 - Talk about ethics with others
- 3. Get the facts
 - Ethical dilemma or misunderstanding?
- 4. Consider the consequences
 - Think short-term and long-term
- 5. Evaluate the tone at the top
 - Help create the tone
- 6. Be proactive
 - Act immediately



ACCOUNTING ETHICS

Accounting means financial information

Reliable financial information helps educated investors and aids in decision-making

We are the guardians of reliable financial information

Accountability – authority and responsibility



UNETHICAL ACCOUNTING

1. Exaggerate revenue

- **§\$\$**
- 2. Provide misleading information regarding business expenses
- 3. Misuse funds
- 4. Misappropriation

PURPOSE

Oversight bodies, those charged with governance.

- Entities manage resources & use authority properly in compliance
- Programs are achieving objectives
- Programs are effective, efficient, and ethical
- Accountability responsibility and authority

PROFESSIONAL CONDUCT

Accountability

Tone from the top → Modeling, Decision-Making, Hiring

Making decisions consistent with public interest → Integrity

Auditors place priority on responsibility to public

Proper use and prudent management of resources

Transparency → What, How, Why

ETHICAL BACKGROUND

Ethics – From the Greek ethos, meaning character.

Ethics is the study of how we make decisions

Intent and expectations

Ethics are the values by which human beings live in relation to other human beings, themselves and/or nature.

RULE ETHICS

Emanuel Kant would say that consequences can't make actions right or wrong. The key question is: "What would happen if everyone acted this way?" Excuse – "everyone does it"

A good rule is one that:

Becomes universal and can be applied consistently and

Is respectful of the autonomy and rationality of all human beings

Trade offs:

Promotion of self interest vs Protection of rights

Does having rules make someone ethical?

An ethical person will want to know the rules so that he/she can make informed ethical choices.

The question is whether or not the rules and procedures are being applied ethically.

LAWRENCE KOHLBERG'S MODEL

- 1. Pre-conventional Level:
 - People act out of fear of punishment There is no morality.
- 2. Conventional Level:
 - People act to conform their behavior to the expectations of the group to which they belong.

"I did nothing wrong."

"Everyone one else does it."

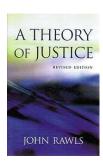
- 3. Post-conventional Level"
 - •The individual understands the reasoning behind a moral principle.

"I did the right thing."

CONTRACT THEORY

John Rawls – American Philosopher 1921 – 2002

- 1. SOCIAL JUSTICE All jobs should be open to talent (equal opportunity)
- 2. DECISIONS Made behind a veil of ignorance
 - This "veil" blinds people to all facts about themselves and others so they cannot tailor principles to their advantage



DISCRIMINATION

(1.400.10, 2.400.10, 3.400.10)

Violates any antidiscrimination laws

Includes sexual and other types of harassment

Is an act discreditable.

PSYCHOLOGY

Ann Tenbrunsel - Current Notre Dame Researcher

Business professionals rationalize a "business" decision instead of an "ethical" decision; framework is everything

Business Decision
What might I gain?
How will it affect the future?

Ethical Decision
Is this decision fair?
Will people be hurt?

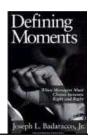


ETHICS AND DECISION-MAKING

Ethics is not always making a decision between right and wrong

Ethics is also about making the key decisions between right and right

Defining Moments: When Managers Must Choose Between Right and Right



Ethical Behavior

GOLDEN RULE

Do unto others as you would have them do unto you.

What you want may not be what others want or need.

We would want people to ask us what we want or need so we should ask them.

Fairness is not equality. I am short if you have not noticed.

Equity and Equality. Wages.

THE CODE OF PROFESSIONAL CONDUCT

- 1. Principles are ideal standards and are not enforceable. (Based in Philosophy)
- 2. Rules of Conduct are minimal standards of ethical conduct stated as specific rules. They are enforceable. (Ex. Independence)*
- 3. Interpretations of rules of conduct. Not enforceable but you must justify departure. (Ex. Can an auditor accept a gift?)
- 4. Ethical rulings. Published explanations of questions asked to the AICPA. Not enforceable but you must justify departure.

GENERAL STANDARDS

Internal auditor's rules of conduct:

Integrity – perform with honesty, diligence and responsibility

Objectivity – appearance and fact

Confidentiality – prudent in use of information (protect it.)

Competency – necessary knowledge, skills and experience.

Professional Behavior

GENERAL STANDARDS

- All things "technical!" When we think of ethics, rarely do we think technical standards.
 - Professional Competence
 - ❖ Due Professional Care (professional judgment & skepticism)
 - Planning and Supervision
 - ❖ Sufficient Relevant Data
 - **❖**GAAP
 - **❖**GAAS

PROFESSIONAL CONDUCT

- The Public Interest (trust and responsibility)
- Integrity (can accommodate the inadvertent error and honest difference of opinion; it cannot accommodate deceit or subordination of principle)
- Due Care "The quest for excellence is the essence of due care." – Professional judgment and skepticism
- Prudence

CODE OF CONDUCT UPDATE

- Reorganize the Code of Conduct
 - Part 1: Public practice
 - Part 2: Industry
 - Part 3: Between jobs, retired, other
- Topics and Subtopics
 - Non-authoritative guidance issued by the AICPA will appear next to authoritative standards



INDEPENDENCE

- Conceptual Framework
 - Independence of Mind
 - ❖Independence of Appearance
- The most detailed section of our Code of Conduct

Ethical Conflicts - Threats to Independence

- Obstacles created by internal or external pressures
- Conflicts in applying relevant professional and/or legal standards. (Fraud and confidentiality).
- Response: relevant facts and circumstances (including rules), issues, established internal procedures

ethical

Public & Business – Ethical Conflicts Threats to Independence

- Adverse Interest members interest opposed to employer (ex. Lawsuit against client)
- Advocacy promote employer interest or position (IPO, expert witness, tax)
- Familiarity too accepting of a person's word or sympathetic to a person (Close relationship)

Warning Unconscious biasness

(Initial reaction - You can not tell me what to do! OR Don't tell me what to do.)

• Self-interest – benefit financially or otherwise (Loan)

Public – Ethical Conflicts Threats to Independence (2)

- Self-review will not evaluate work appropriately (previously made judgments)
- Undue influence a member will subordinate his/her judgment and integrity to an individual due to that individual's position, reputation, or aggressive (dominating) personality
- Management Participation (old 101-3) Directorship, client employees, responsible for client internal control

Client and Customer Acceptance and Retention

- 1. Set expectations from the beginning
- 2. Client meetings should be two way interviews
- 3. Bullying



Discussion

Your boss says to you...

"I am not telling you to do anything illegal. I am just telling you what I want done. It is up to you to figure out how to do it."

Friend in Government

Safeguards

- Legislative
- Training
- Culture Expectations
- How and by whom the safeguard is applied internal control
- Policies and procedures against discrimination and harassment
- Tone from the top
- Skepticism

ETHICAL CASE FOR CONSIDERATION

Role → You are Mayor and as such, Liquor Commissioner...

Decision → Do you accept a gift from a tavern or not?

Gifts – Judgement Concerning Relevant Facts

- Nature of the gift or entertainment
- The occasion of giving rise to the gift
- The cost or value of the gift or entertainment (Cubs vs. Sox)
- The nature frequency, and value of other gifts or entertainment
- A designated person in your firm to ask about any gift.

ETHICAL BACKGROUND

Ethics – adherence to applicable regulations, laws, and professional standards

Be proactive – Hasbro and lead

Communication – policies and procedures

Documentation – who, what, when, how and why

Accountability – responsibility and authority

Ethical Challenges

- · Conflicts of interest
- Disagreement over a tax/accounting position
- Integrity
- Due diligence
- Reckless or intentional disregard of rules, laws, or regulations
- Client acceptance Knowledge of client's error
- Confidentiality

The Job

- Do it right the first time (saves time fixing issues later)
- Provide higher level of uniform quality*
- Experience less conflict
- Keeping reputation intact leads to new and repeat business

*W. Edwards Deming



The Aura

- 1. Take accountability from the top-down
- 2. Make the message consistent
- 3. Encourage skepticism
- 4. Facilitate ethical behavior
- 5. Don't create a home for the 'Fraud Diamond'

Accountability from Top-down

- · Common vision and mission
- · Prevent, detect, and correct with internal controls
- Prevent, detect, and respond to compliance and fraud issues

Consistent Message

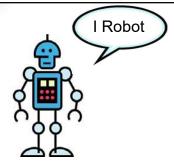
- Ask employees to repeat the mission to ensure consistency within the company
- Ensure employees know what is expected of them and where the boundaries are
- Let clients and customers know what your message is
 (Ex. Engagement letter, contracts, website, marketing materials)

AI and CHATGPT

They can make useful suggestions.

You need to make the decisions. They do not incorporate your personality or organizational culture.

A questioning attitude using complex problem solving, critical thinking, creativity and emotional intelligence is needed more than ever.



Asimov Rules!

- 1. A robot may not injure a human being or, through inaction, allow a human being to come to harm.
- 2. A robot must obey the orders given to it by human beings, except where such orders would conflict with the First Law.
- 3. A robot must protect its own existence as long as such protection does not conflict with the First or Second Laws.



James Moor

- 1. Impact Agents: influence-intended or not clock on time.
- 2. Implicit Agents: designed to avoid unethical and negative outcomes-security or safety-"the door is ajar."
- 3. Explicit Agents: algorithms to act ethically-drone to destroy military targets but must avoid nearby humans.
- 4. Full Agents: Al-machine that can make moral decisions and And can understand why it makes those decisions.

REMOTE WORK

Confidentiality - passwords, public places, apartments

Productivity – clear goals and expectations

Equipment usage – business only?

Wellness – a mentor or someone to run ideas by

Fraud – segregation of duties

Navy Commander

About mission commander on two boats accidently entering Iran's waters

"He lacked a questioning attitude, failed to promote a culture of safety, and disregarded appropriate backup from his staff and subordinate commands."

July 1, 2016

- What <u>HAS</u> Changed?
- What <u>SHOULD HAVE</u> Changed?
- Does it cause a Risk?
- What is going to be your RESPONSE?

Danger, Accountant, Danger

It is most dangerous not to know what you do not know!!!!!



How do we know we are acting ethically?

"Judge a man by the questions he asks – not by the answers he gives."

Voltaire

Ask yourself:

Who will the decision help?
Who will the decision harm?
Why is the decision appropriate for the situation/time?

Sometimes the choice is between right and right!

MORE QUESTIONS

Who am I? (Psychological)

How does it work? (Physical)

How do I make decisions? (Ethical)

People make bad decisions because they are pressured to do something that may be wrong.

They may have a bad attitude because they may feel things are not fair.

Also, they may have the opportunity.

How do I relate to other people? (Sociological)

Four step ethical decision framework

Step 1: Identify the dilemma and assess the potential risk to the organization, others and yourself.

- What is the dilemma?
- What is the potential risk to others (clients, coworkers, your family, etc.)?
- What is the potential risk to the organization?
- What is the potential risk to you?

MORAL HAZARDS





- 2. BLOCK CHAIN
- 3. INTERNAL CONTROL
- 4. DRIVERLESS CARS TESLA

ETHICS OF DRIVING

- 1. Don't hit anything
- 2. Be aware notice things (Bus)
- 3. Don't get hit by anything
- 4. Stay out of other peoples' way
- 5. Know what others expect you to do
- 6. Let others know what you are doing- Be Transparent!
- 7. Your decisions impact others
- 8. For backseat driving...



PRACTICAL BEHAVIOR

An Ethical Person:

I messed up.

It won't happen again.

ETHICAL PEOPLE

Can an ethical person have unethical behaviors?

Can guidelines keep people ethical?



Being ethical is doing the right thing...

Even when no one else knows.



Do the Right Thing!

