

### **TRENDWATCH 2Q23**

August 16, 2023

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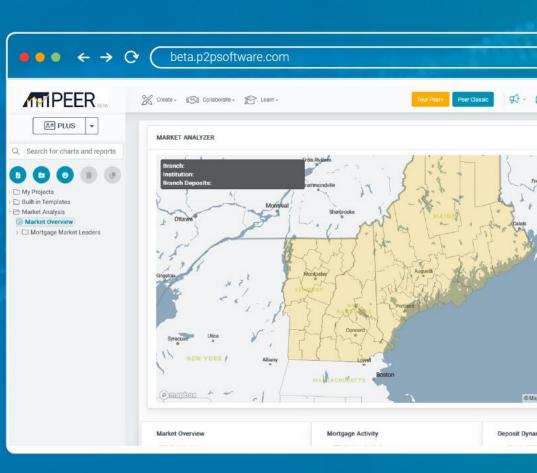
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We empower credit unions to survive and thrive by engaging, educating, and retaining their next generation of members. your marketing. strategy • creative • branding

### Today's Lineup

Market Update Jason Haley, Chief Investment Officer, ALM First

### 2Q 2023 Credit Union Results

Katy Slater, Senior Vice President, Callahan & Associates William Hunt, Senior Analyst, Callahan & Associates

#### **Implementing Artificial Intelligence**

Kal Majmundar, Chief Technology Officer, Patelco Credit Union









#### August 16, 2023

### **ALM First Market Update**

#### Callahan Trendwatch

## Speaker



#### Jason Haley Chief Investment Officer



#### **Current Economic Themes**

#### • Softer June/July CPI revives 'soft landing' narrative

- Increased speculation that the Fed can succeed with suppressing inflation without sparking a recession
- Labor market and consumer spending remain more resilient than many economists expected
- July FOMC meeting was more neutral in tone, but Fed hawks are maintaining 'higher for longer' stance

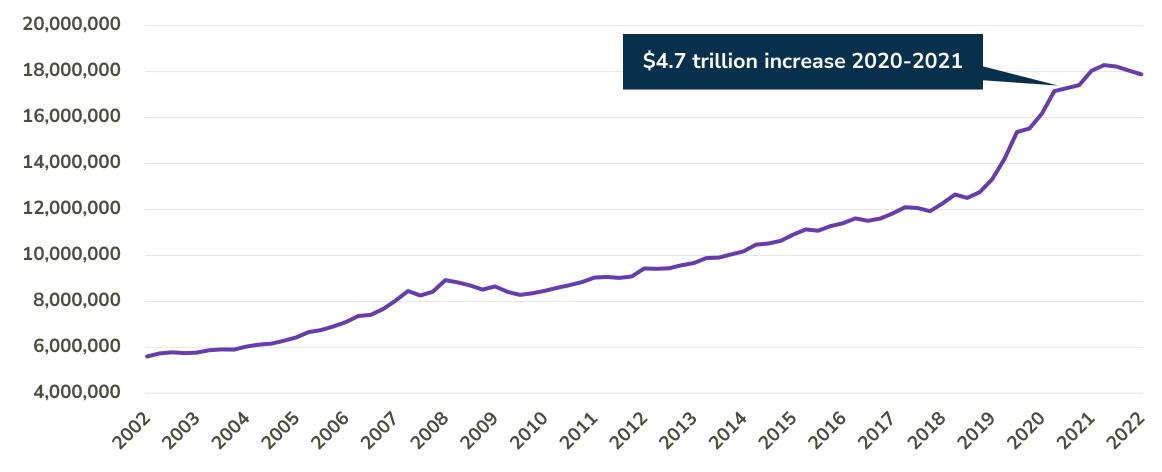
#### • Economic resilience, but signs of gradual weakening

- Consumers and the U.S. economy have proved more resilient than many economists expected
- Corporate profits and profit margins have come under pressure in recent months, and interest burdens continue to rise
- Consumer savings have eroded over the last 12 months, albeit at a slower pace than many expected (and from a much higher stimulus-induced base)
- Bank credit tightening and lag effect of significant Fed tightening

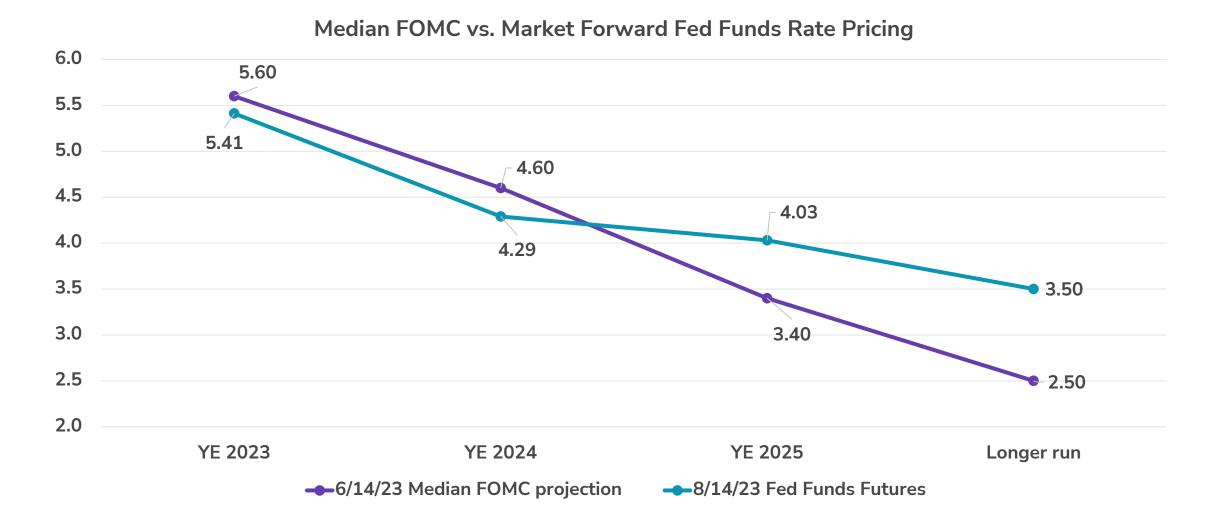


#### **COVID-Surge in Household Savings Still a Tailwind**

#### Household Liquid Assets (\$ millions)









#### Looking Ahead

- Financial markets are optimistic, but market conditions remain challenging for credit unions
  - Inverted yield curves, rising cost of funds, and rising credit delinquencies present risks to future earnings
  - Disciplined risk management, including asset pricing and hedging, is as critical as ever
  - Opportunities still exist for CUs with strong capital and liquidity profiles (i.e., liquidity providers)
- Regulatory changes and greater examination scrutiny are likely
  - BASEL III 'endgame' recently announced by US regulators, including greater capital requirements for \$100 billion and larger banks
  - Still uncertain of regulatory changes for CUs and community banks, but increased examination scrutiny is more likely in the near-term



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### As interest rate environment shifts, loan and share growth slows

	6/30/2023	12-Mo. Growth	6/30/2022	12-Mo. Growth
Assets	\$2,245.2B	4.0%	\$2,158.6B	8.0%
Loans	\$1,579.1B	12.8%	\$1,400.2B	16.1%
Shares	\$1,900.7B	1.4%	\$1,874.4B	8.1%
Investments	\$574.2B	-12.6%	\$657.3B	-6.2%
Capital	\$218.9B	6.5%	\$205.6B	-3.7%
Members	139.3M	4.0%	133.9M	4.2%



Source: Callahan's Peer-to-Peer Analytics



## Shares are growing at the slowest annual pace this millennium, but there are signs of optimism looking ahead



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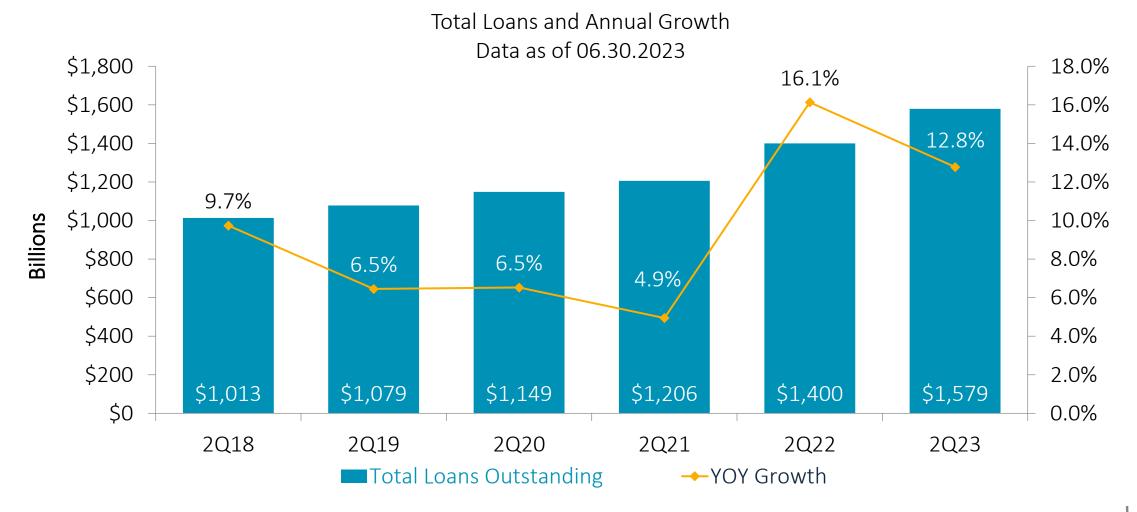
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# Loan originations decline as consumer demand slows amidst rising interest rates



# Balance sheet loan growth remains strong as the pace of member paydowns slows

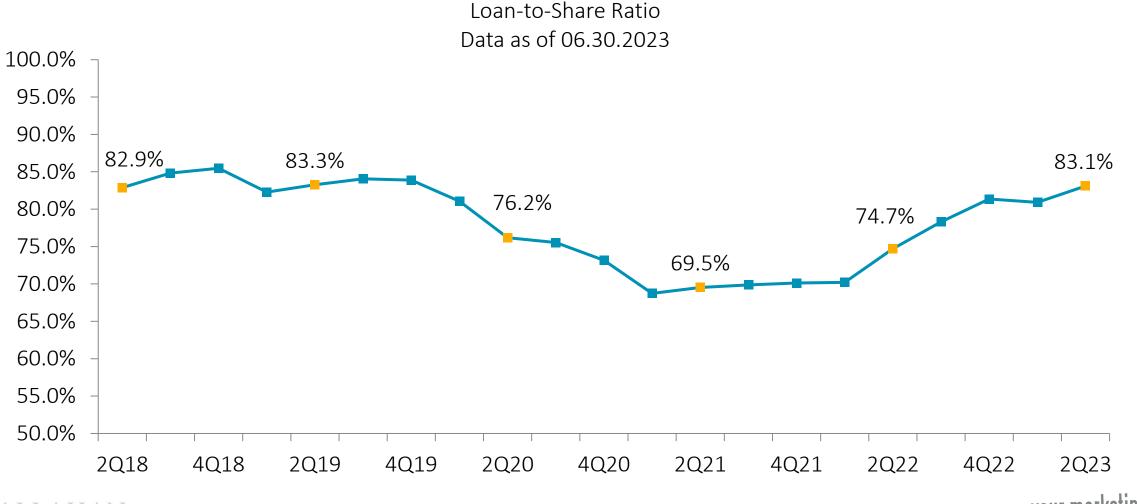


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## The loan-to-share ratio is at its highest level in four years...but not the highest all time

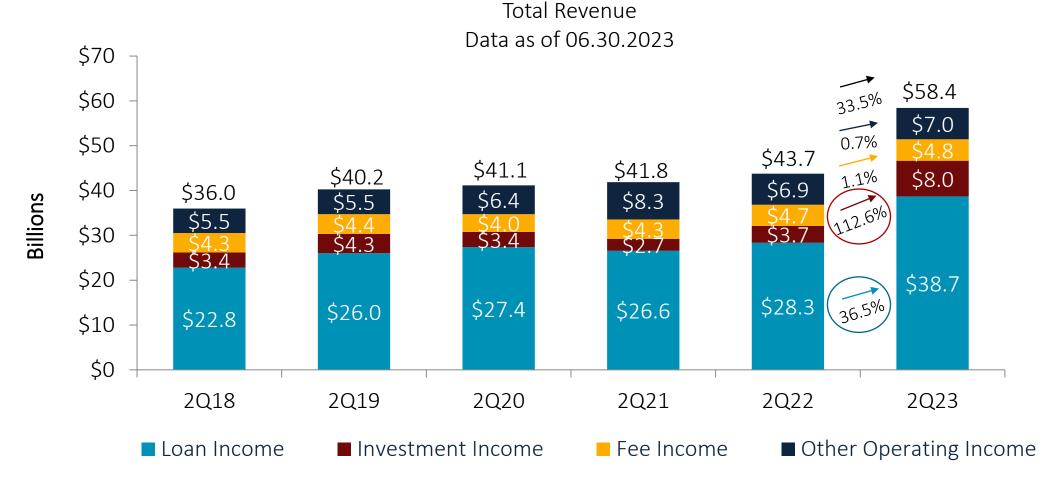


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#### Higher interest income drives 34% jump in total revenue







### Credit unions add nearly 5.4 million members over the past year





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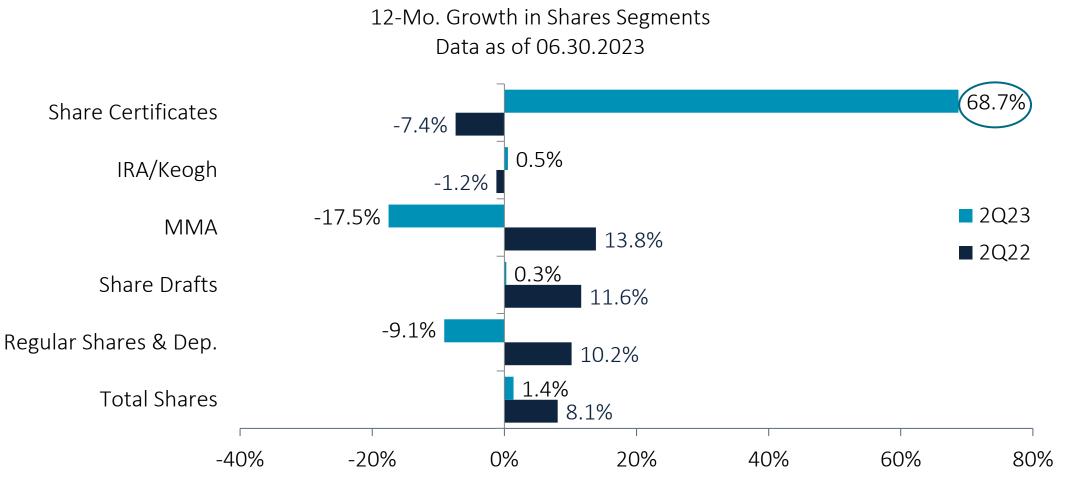
## Savings







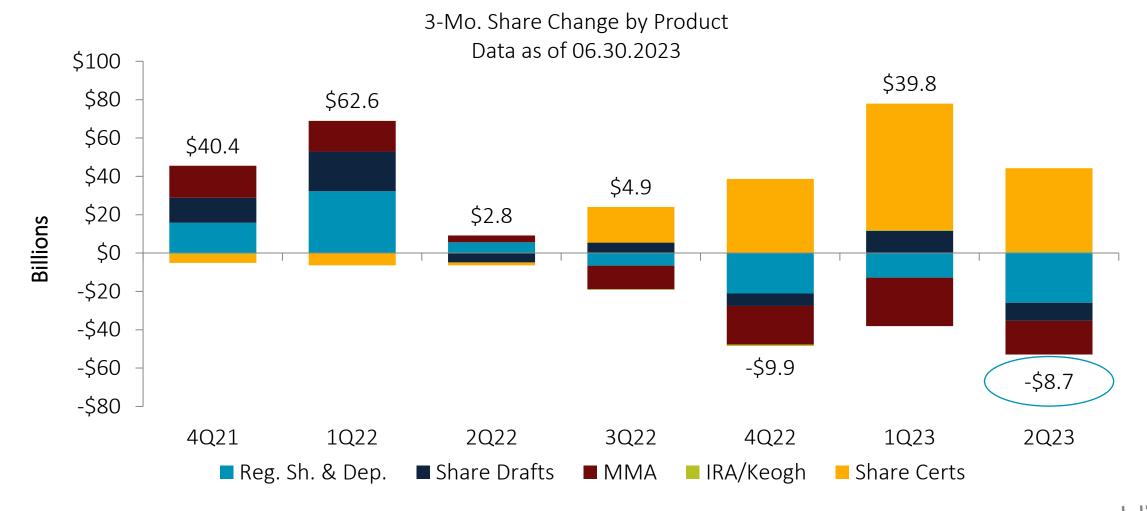
# Share certificates continue to fuel share growth as members take advantage of higher savings yields







## Members have directed over \$166 billion to certificates over the past 12 months

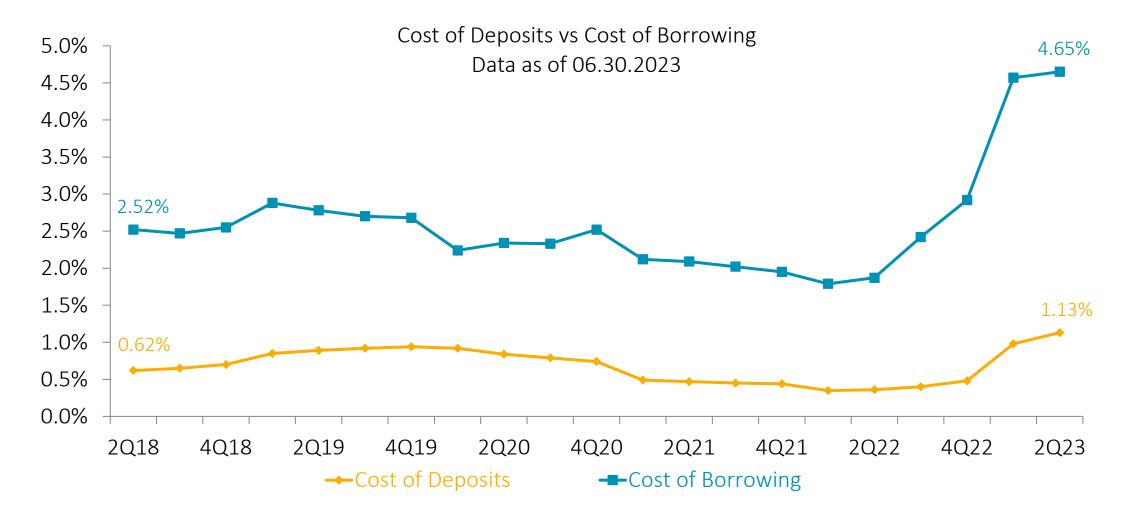


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## With borrowing costs rising, credit unions choose to reward savers via certificates and other savings programs







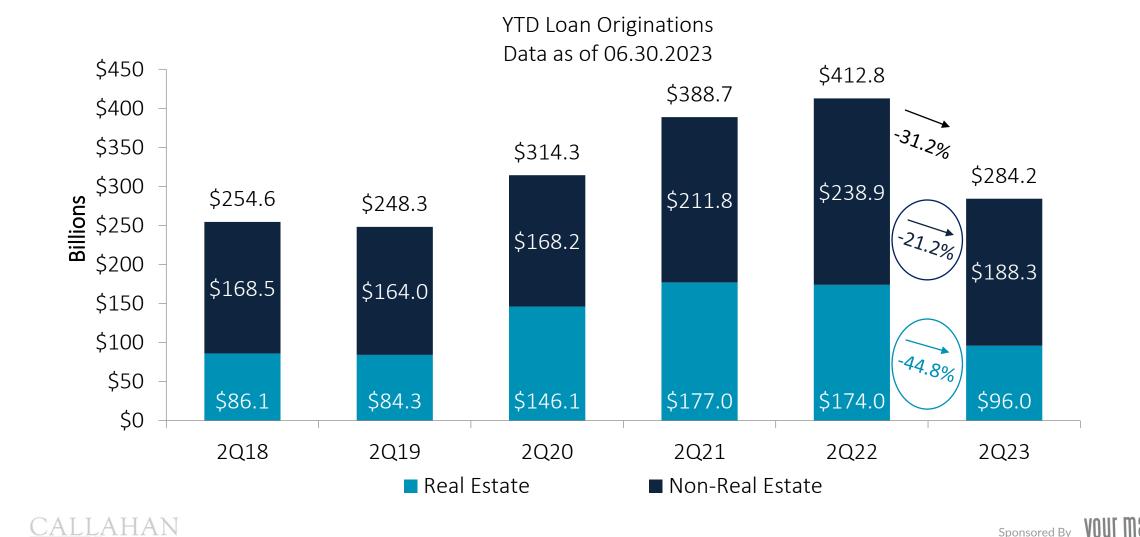
## Lending





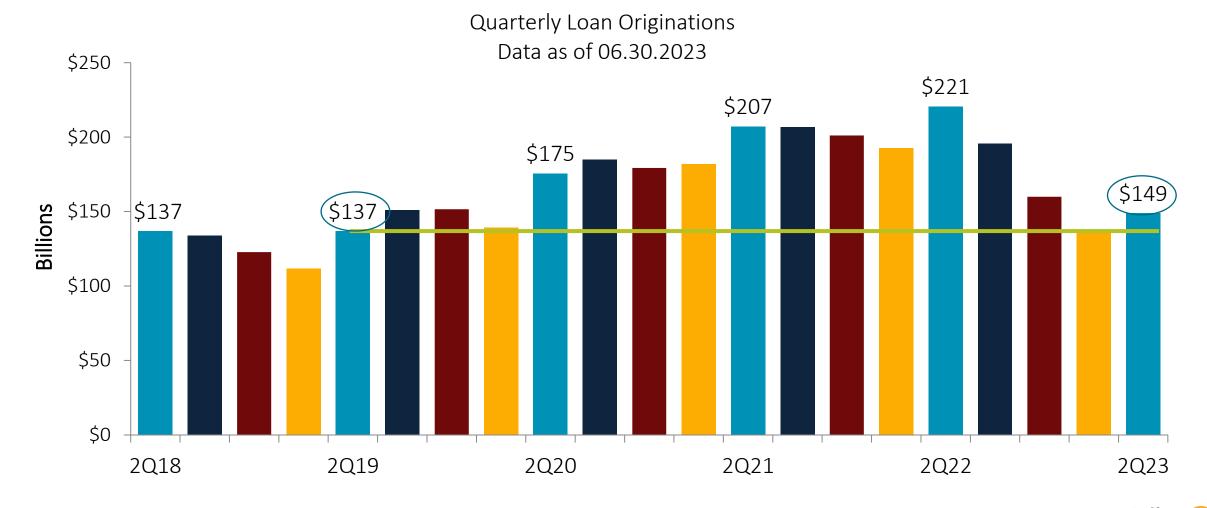


### The Fed's tightening campaign is evident in member loan demand



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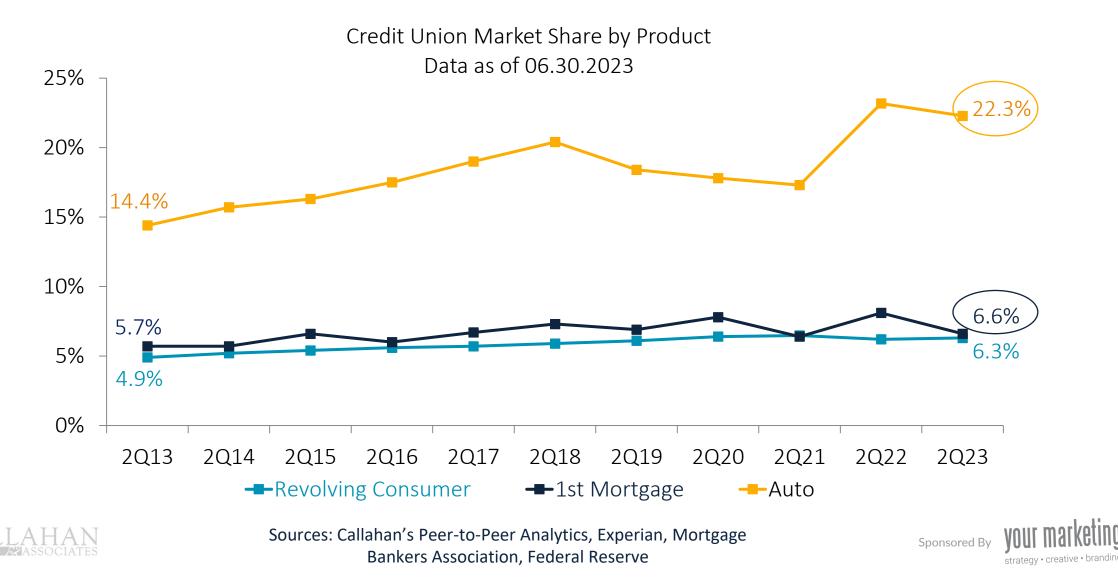
### But lending still follows seasonal patterns and beats 2019's pace



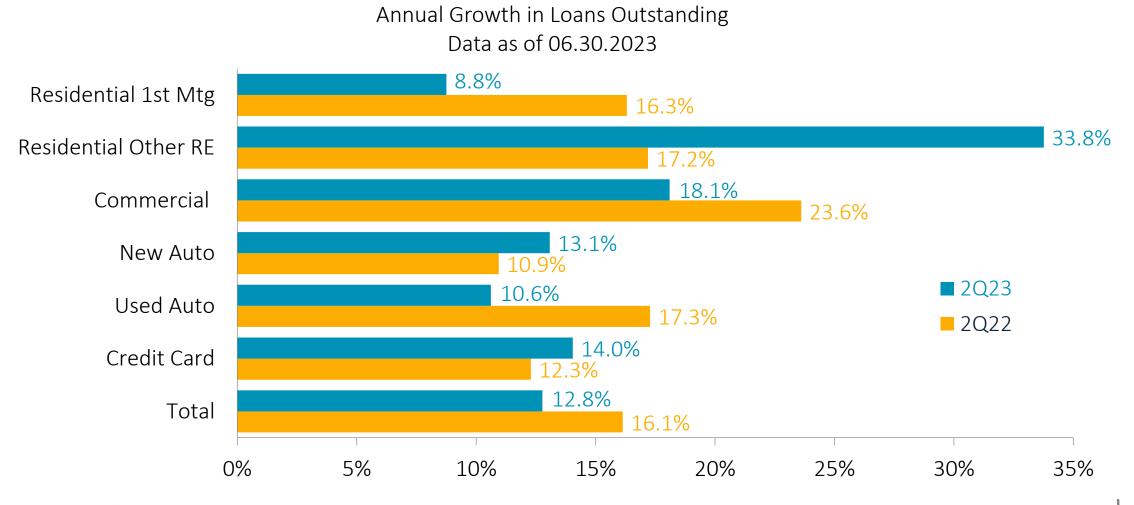


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# Auto and mortgage market share fall slightly below peak levels, but remain strong



# Loan balances are growing at a strong pace in all categories, with HELOCs and commercial loans leading the way

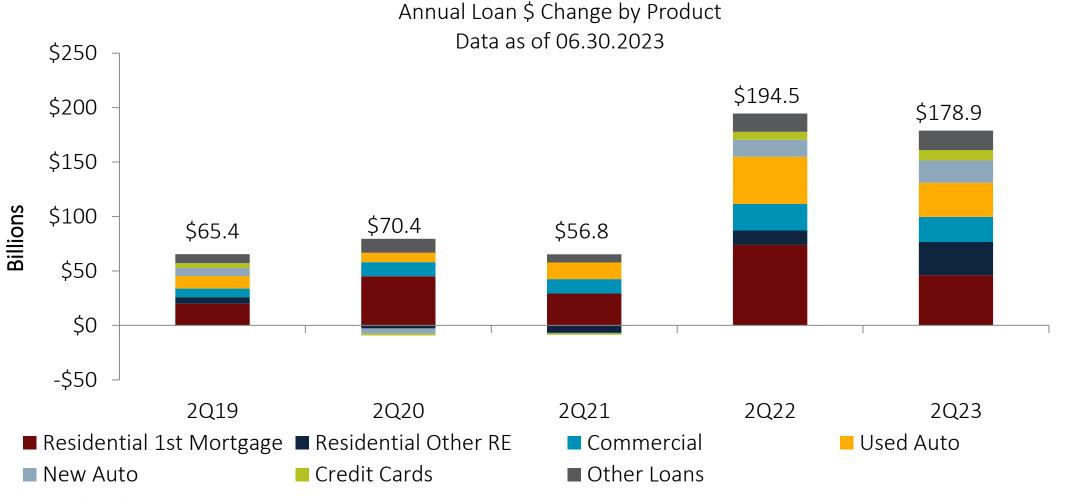


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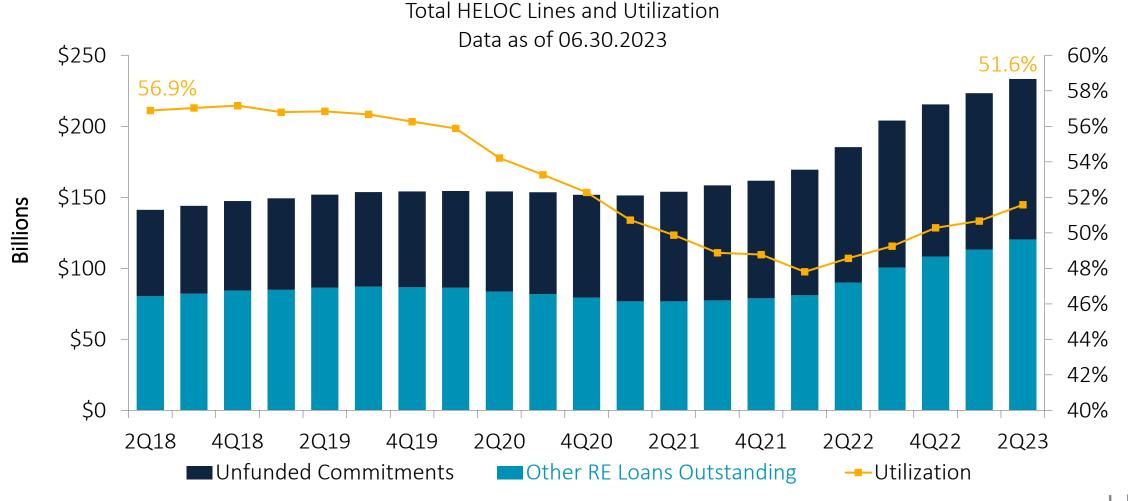


### The profile of new loans is changing from prior years



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# HELOC utilization returns as members tap into higher home values

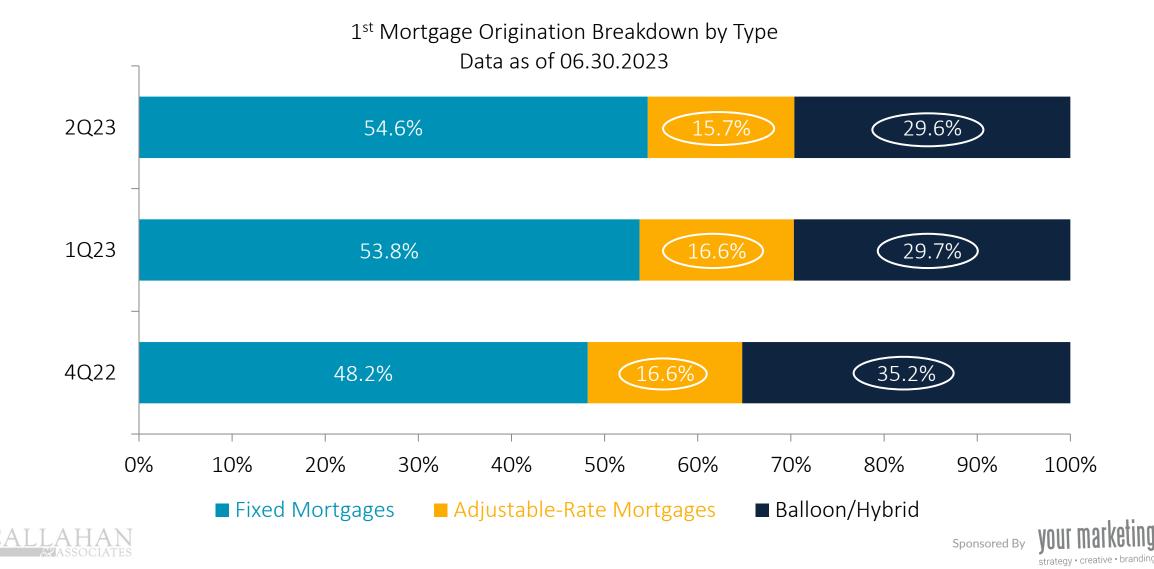


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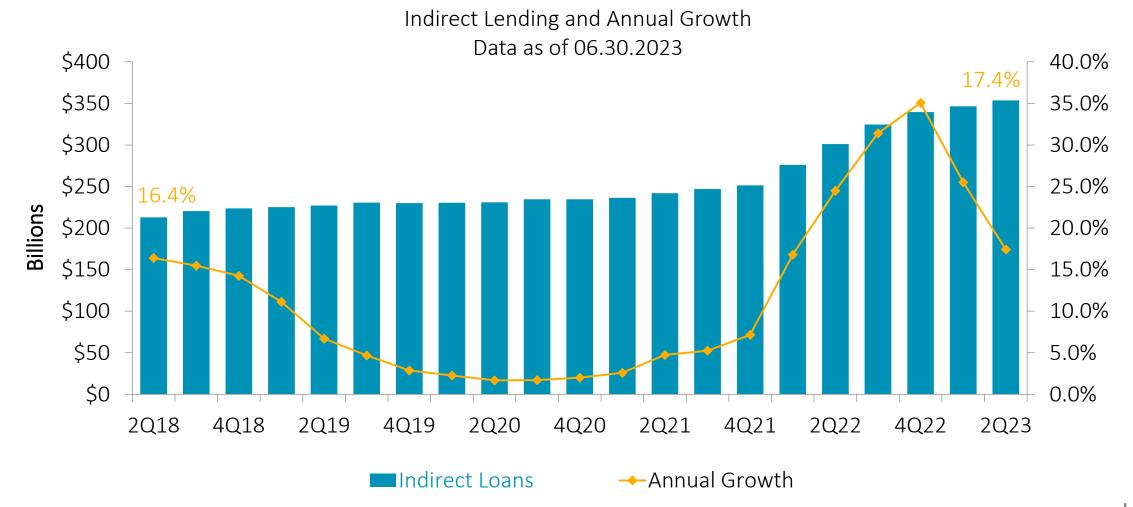
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CALLAHAN Associates

### As rates stabilize, fixed mortgage originations rebound



# Indirect loan growth slows for second straight quarter, likely with intention



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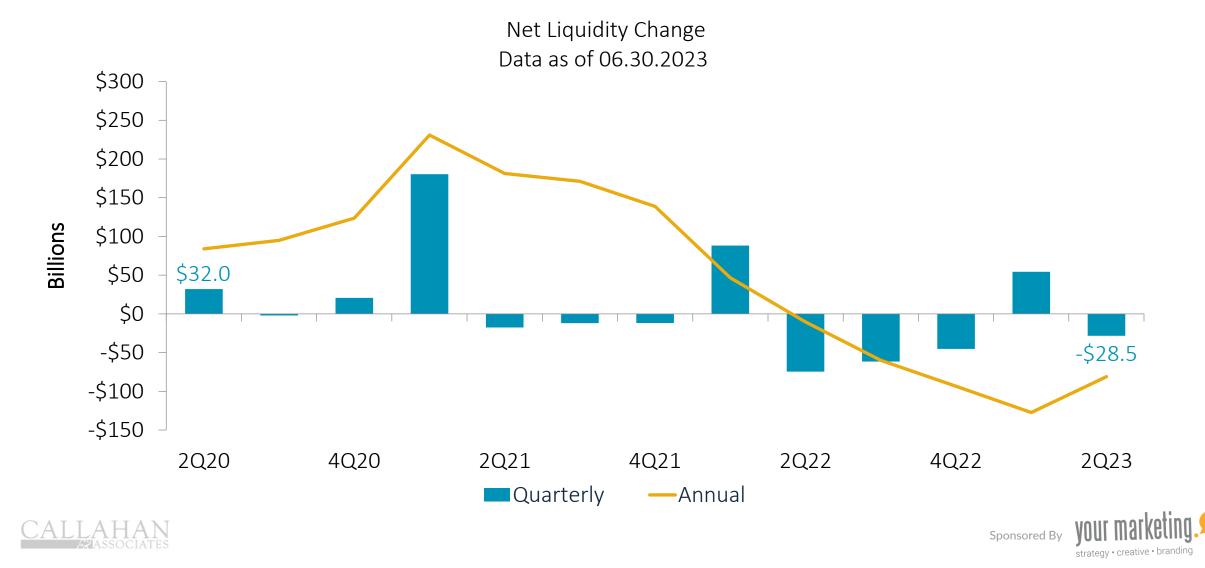
## Liquidity



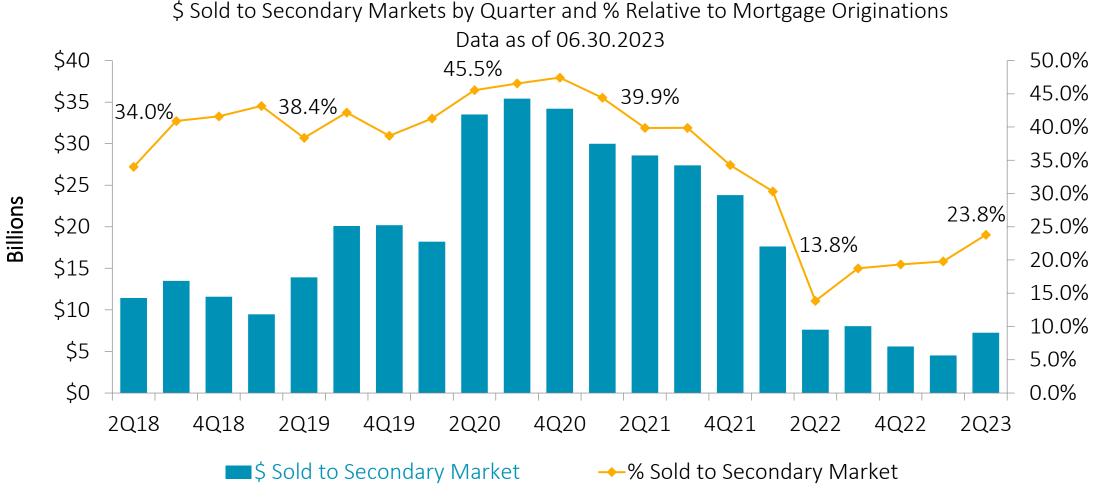




# Liquidity follows seasonal trends and declines slightly in the second quarter



# Credit union mortgage sales pick up in the second quarter, supporting liquidity management

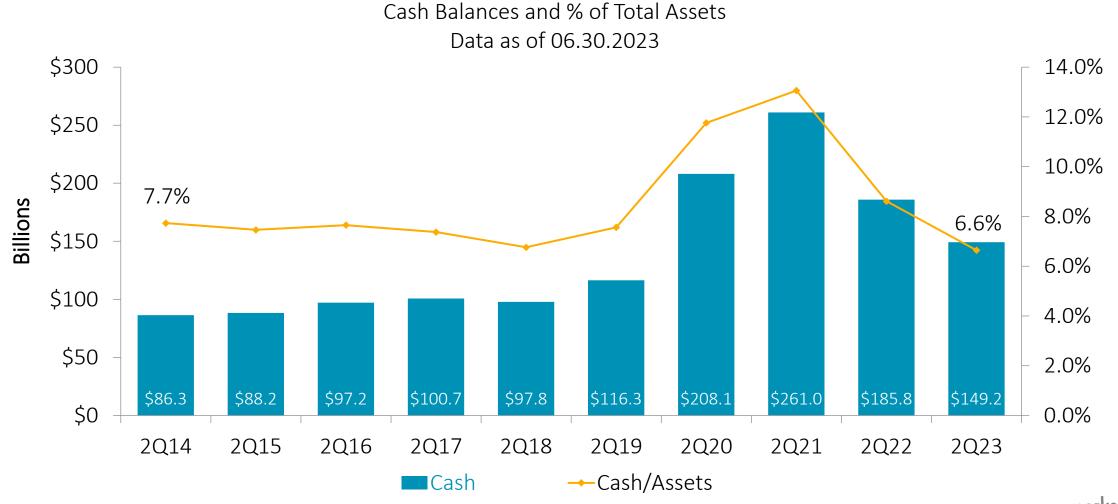


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# Cash balances match 2018 level as a percentage of assets



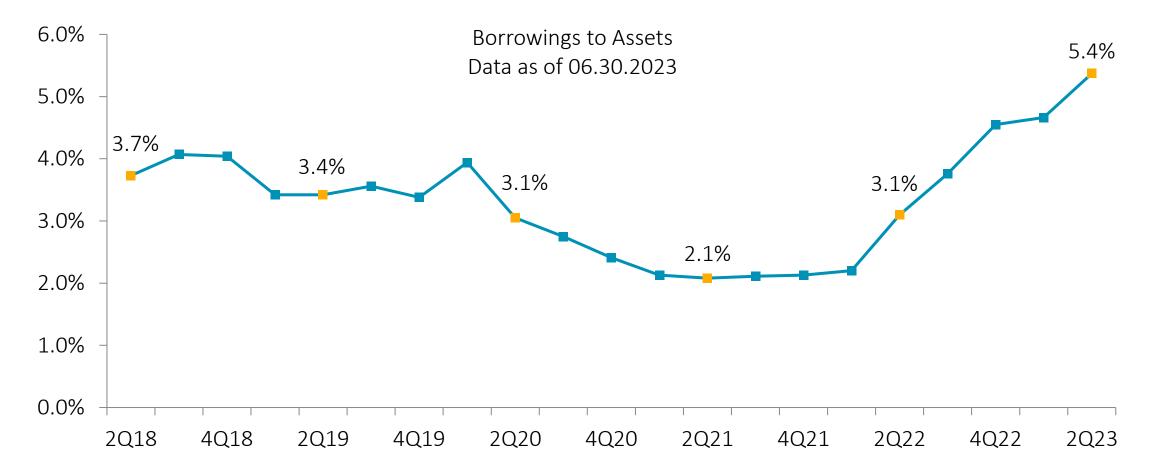
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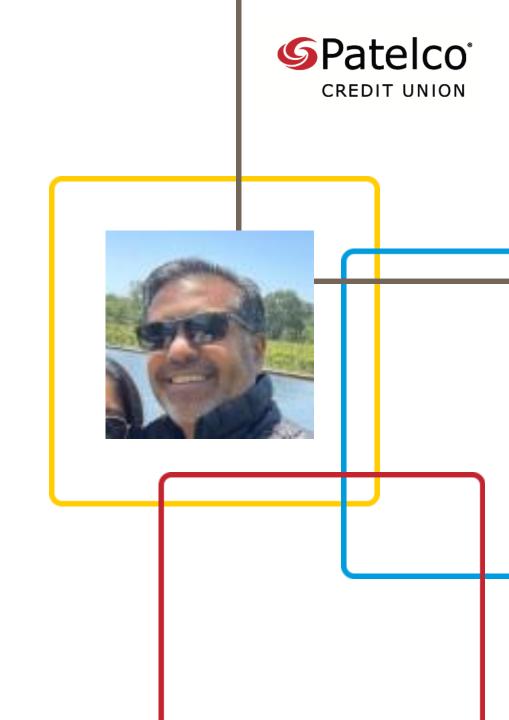


# Credit unions have utilized borrowings to diversify funding channels and provide liquidity for member lending





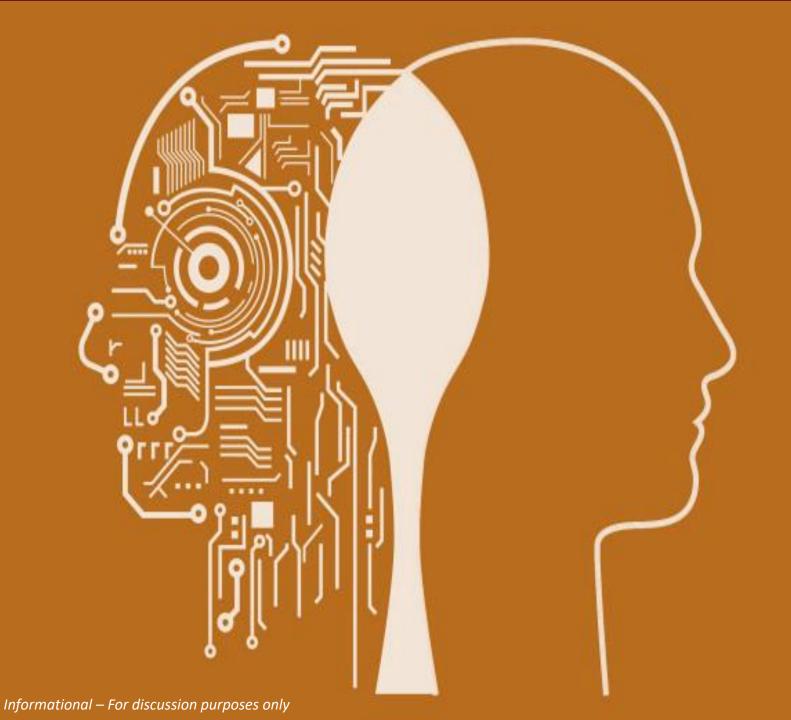




# Kal Majmundar, CTO

# Al disruption in Banking:

# Are you ready?



#### **Headline News**

Bank of America's Erica Tops 1 Billion Client Interactions, Now Nearly 1.5 Million Per Day

Software company CEO says using ChatGPT cuts the time it takes to complete coding tasks from around 9 weeks to just a few days

AI and ML in the fight against banking fraud

#### Al making advancements in health care, helping to perform surgery

Cardiologist Dr. Kevin Campbell details first-of-its-kind, A.I.-enabled health care technology that makes him 'better at [his] job.'

AI method predicts how cells are organized in disease microenvironments

Artificial Intelligence is set to play a crucial role in the future of many industries, including digital healthcare. It could enable doctors and nurses to make faster, more accurate decisions.

JPMorgan Chase made <u>headlines after it filed a trademark application</u> for a new artificial intelligence invention that would select investments for customers.

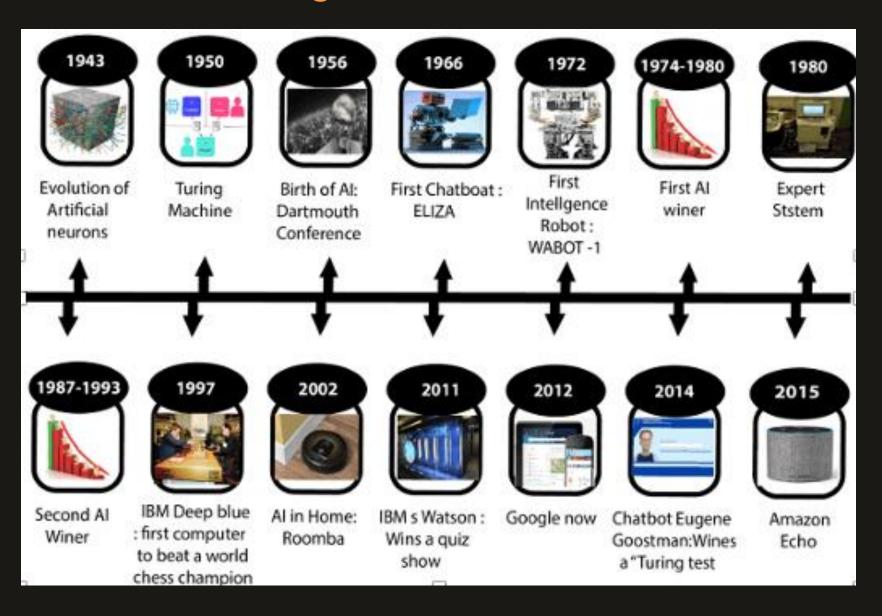
The generative AI tool lets you "try on" clothes from hundreds of brands online by displaying them on models of a wide array of sizes and skin colors.

**5 Stocks That AI Predicts Will Double Your Money in a Year** It turns out that AI can also help investors beat the market A wave of advanced machines is coming to the company's facilities (Amazon) thanks to better AI and robots smart enough to work with—and without—humans.

When VantagePoint's Advanced A.I. "Brain" recently predicted 4 trend reversals for Moderna (NASDAQ:MRNA) — investors had the potential to **capture 316.19% in gains**. But unfortunately, many retail investors failed to take it seriously and missed out.

#### \*Financial Services

## The Dawn of Artificial Intelligence



## Al Outlook for the rest of the decade



Up to 26% boost in GDP for local economies from AI by 2030



Potential contribution to the global economy by 2030 from AI \$1.8T

Expected AI market size by 2023 (37.3% from 2023 to 2030)

The Market For Artificial Intelligence (Ai) Is Expected To Show Strong Growth In The Coming Decade.

General

\$64.03 B

Al Banking Market Will Grow to \$64.03 Billion by 2030 at a CAGR of 32.6% from 2021(\$3.3B)



Additional value in banking each year

85%

Have a "clear strategy" for adopting AI in the development of new products and services.

Sources, PwC, Economist & Mckinsey

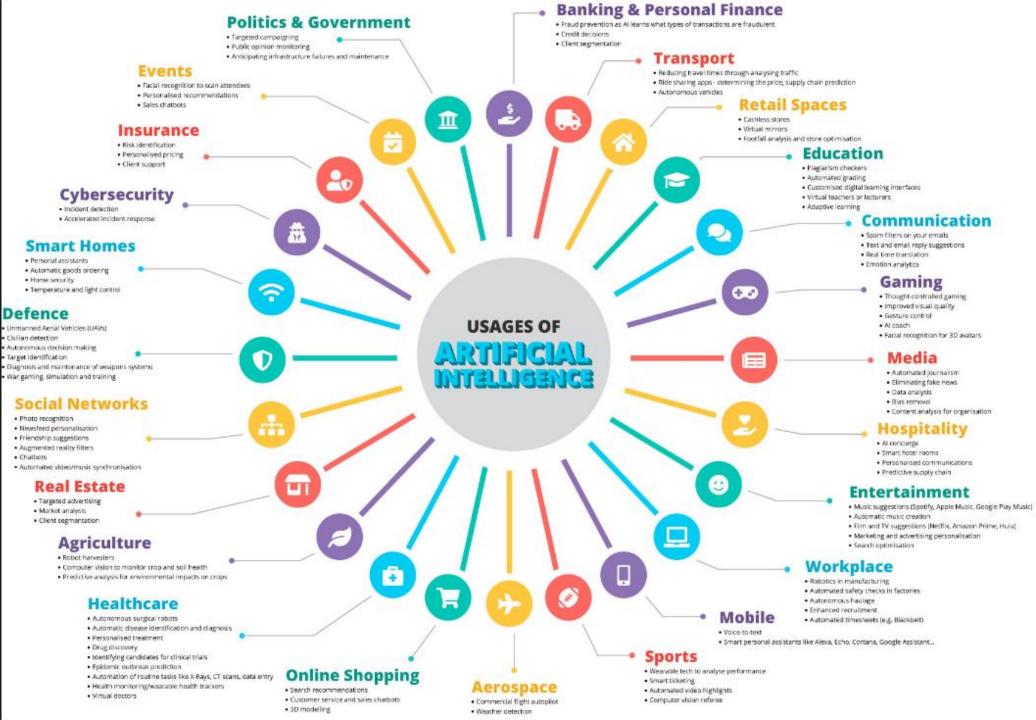
# **AI Maturity**

AI maturity measures the degree to which organizations have mastered AI-related capabilities in the right combination to achieve high performance for customers, shareholders and employees.



E FINANCIAL BRAND © August 2022 SOURCE: Accenture

Usage Of Al Is Becoming More Pervasive



### Where should you focus?





Improving Member Experience



Interacting with Members



Recommending Personalized Advice (NBA,NBO) Pricing and Credit Decisioning





∎←●

Service Optimization

Intelligent Payments

## **Darkside of AI**

\*Financial Services

Over just a few months, ChatGPT went from correctly answering a simple math problem 98% of the time to just 2%, study finds

**CFPB Issue Spotlight Analyzes "Artificial Intelligence" Chatbots in Banking** The CFPB has received numerous complaints from frustrated customers trying to receive timely, straightforward answers from their financial institutions or raise a concern or dispute.

ChatGPT opens up new avenues for hackers to potentially breach advanced cybersecurity software

"The 2024 elections are going to be a mess because social media is not protecting us from false generative AI,"

<u>AI will threaten humans in two years</u>... The near-term risks are actually pretty scary. You can use AI today to create new recipes for bioweapons or to launch large-scale cyber attacks."

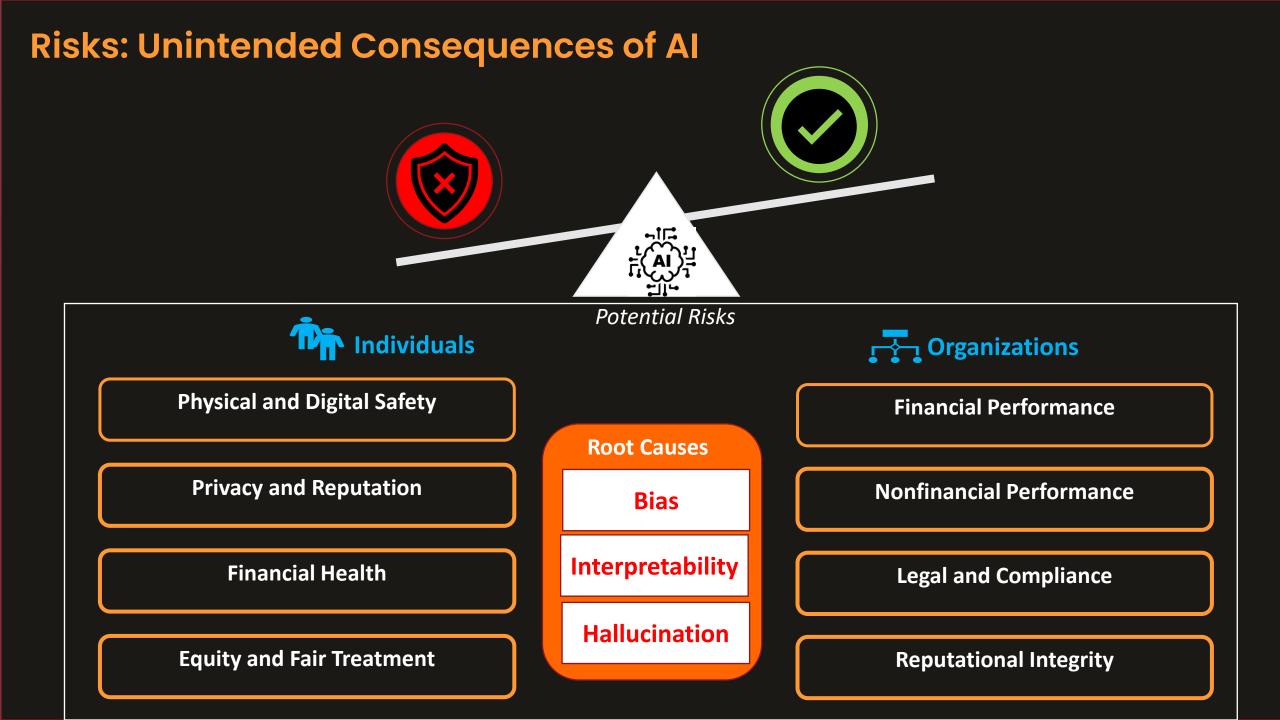
50% of A.I. researchers believe there's a 10% or greater chance that humans *go extinct* from our inability to control AI.

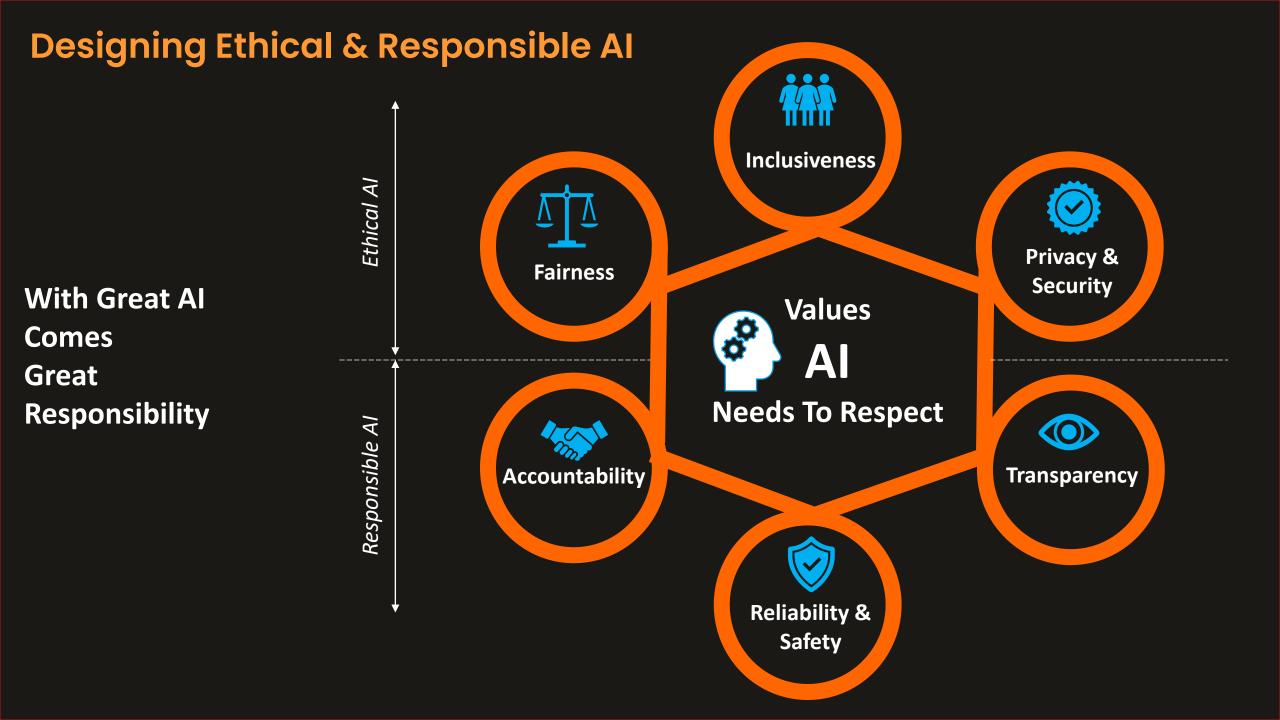
AI And Cybercrime Unleash A New Era Of Menacing Threats

A March report from Goldman Sachs said that generative AI tools like ChatGPT could lead to "significant disruption" in the labor market and affect around <u>300 million full-time jobs globally</u>.

A **Pew Research poll** found that six in 10 U.S. adults would feel uncomfortable if their own health care provider relied on artificial intelligence to diagnose disease and recommend treatments. But the reality is that AI has entered the health and wellness space, with some doctors already harnessing its power and potential. As the use of artificial intelligence is spreading, it is becoming a threat to financial markets. Several banks have already banned it.

The main privacy concerns surrounding AI is the potential for data breaches and unauthorized access to personal information. With so much data being collected and processed, there is a risk that it could fall into the wrong hands, either through hacking or other security breaches.





#### Why Public ChatGPT is not safe?

#### **Privacy and Security**

- Intellectual Property: Information entered into Public ChatGPT can become part of its training set
- 2 Data Privacy: OpenAI may share ChatGPT user information with third parties without prior notice
- **Cyber Concerns:** Personal or sensitive information stored by OpenAl could be accessed by hackers.
- 4

Productivity enhancer for everyone, including the hackers

## **Critical Success Factors**



Alignment of AI with business strategy.



Build responsible and ethical principles into AI.



#### Great AI needs great data.



#### **Skills & AI Literacy**



Improve business processes first.



**Commercial talk, not an AI hype** 



**Platforms and Partners** 



# "The Art of Possibilities"

Thank you.

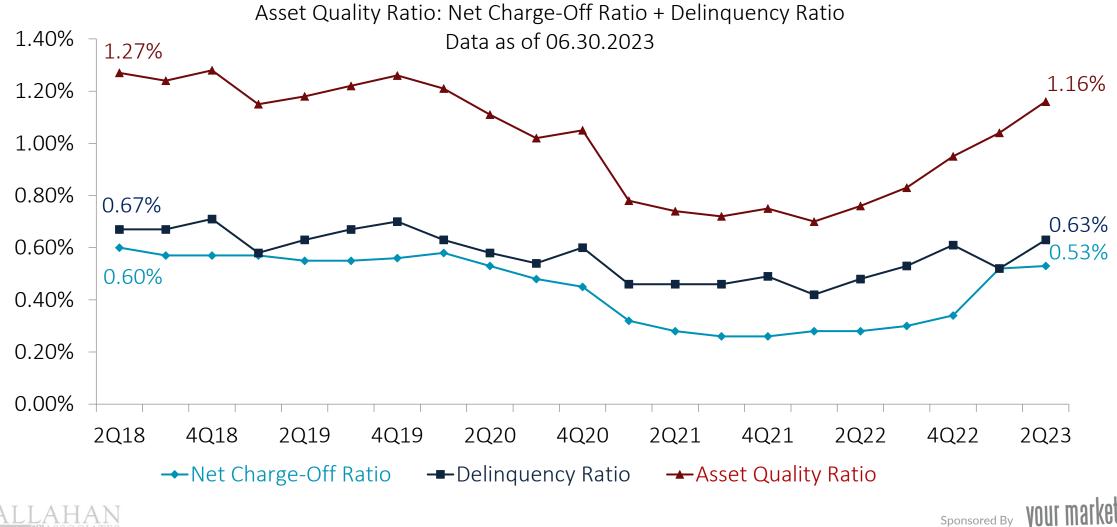
# Asset Quality







## Asset quality is returning to historical norms

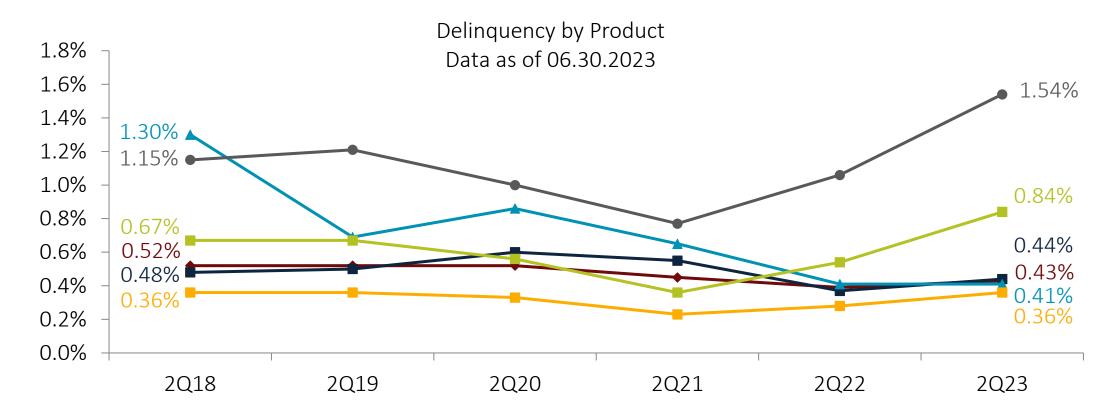


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# Delinquency centralized in consumer loan types



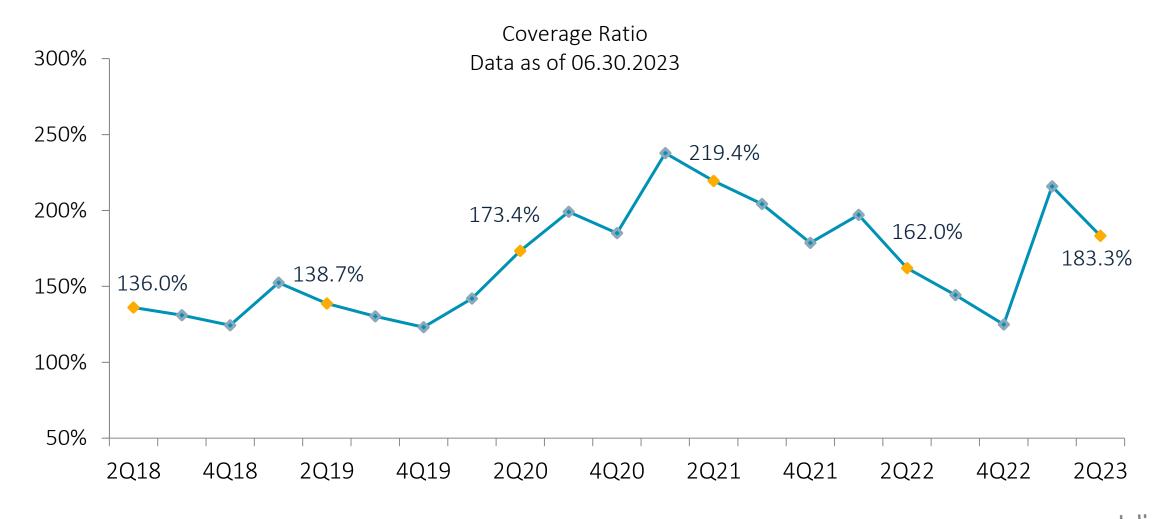
- Residential 1st Mortgage Delinquency
- Commercial Delinquency

- ----Residential Other RE Delinquency
- ---New Auto Loan Delinquency
- --Credit Card Delinquency





# Credit unions are well-reserved for potential loan losses



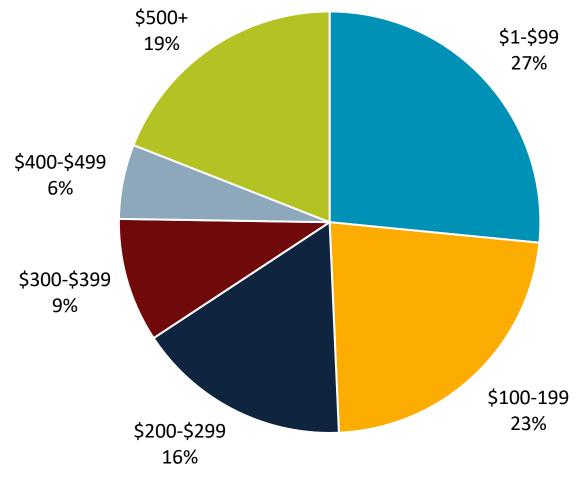
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## Consumers to resume student loan payments in Oct 2023

Distribution of Expected Payment Amount for Consumers Resuming Payment





Data Source: TransUnion Study, "Implications of the End of Pandemic Era Student Loan Forbearance."



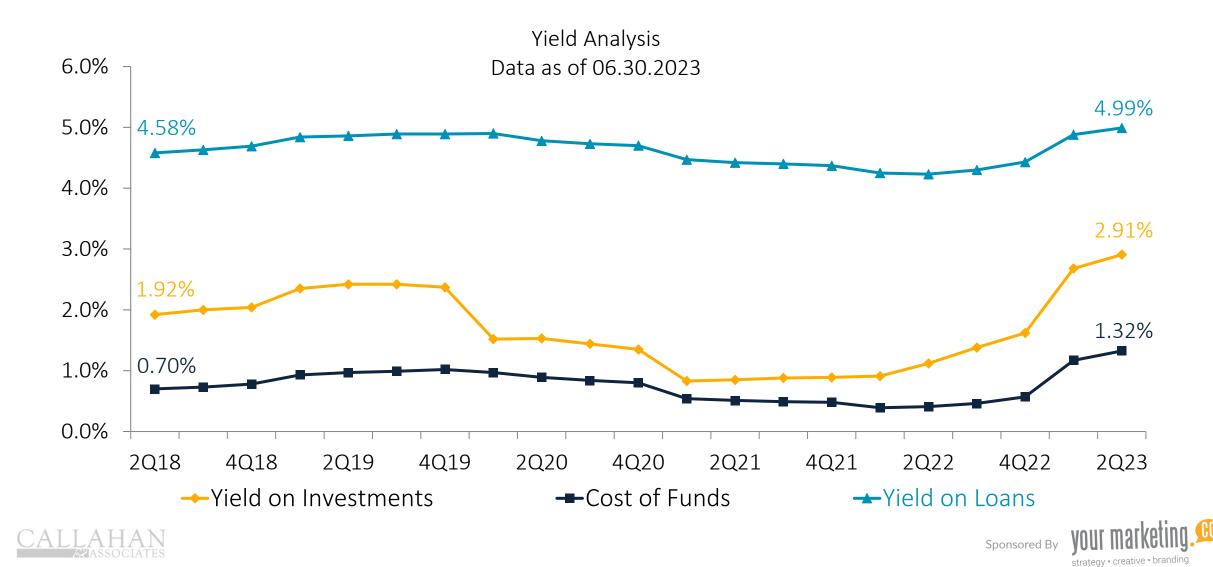
# Earnings & Capital



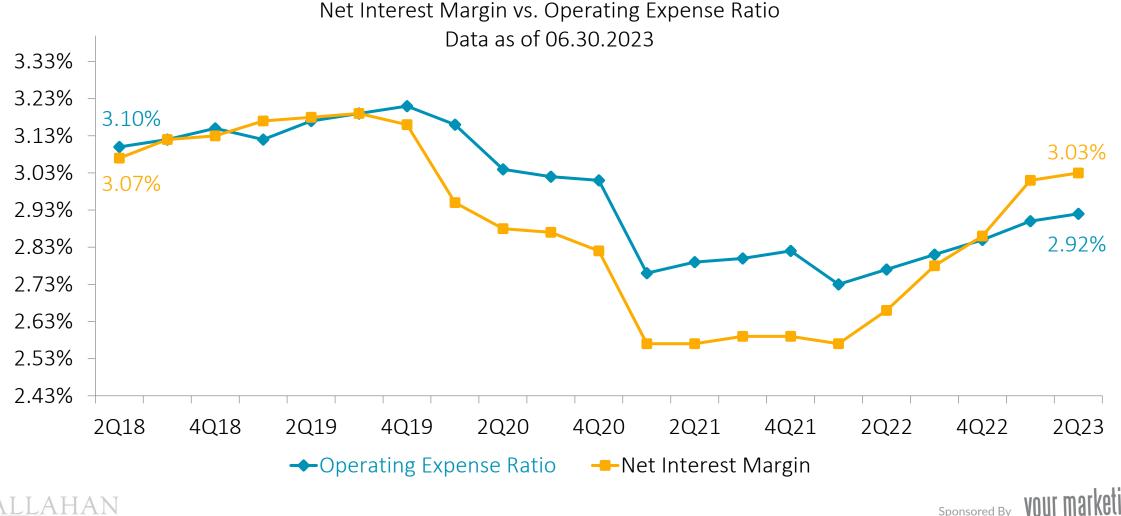




# Loan yields are moving up in line with cost of funds



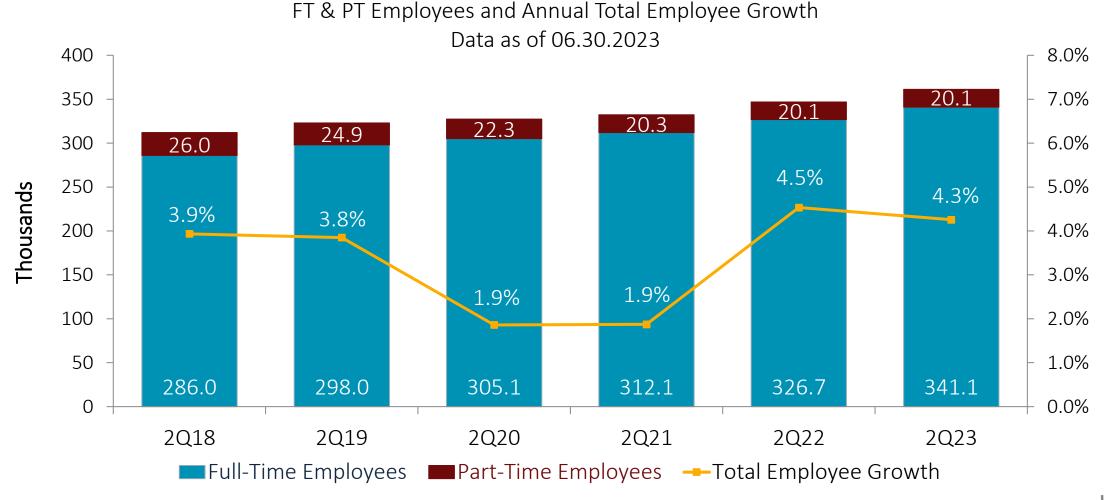
# Net interest margin continues to trend up, allowing credit unions to continue to invest in talent and technology



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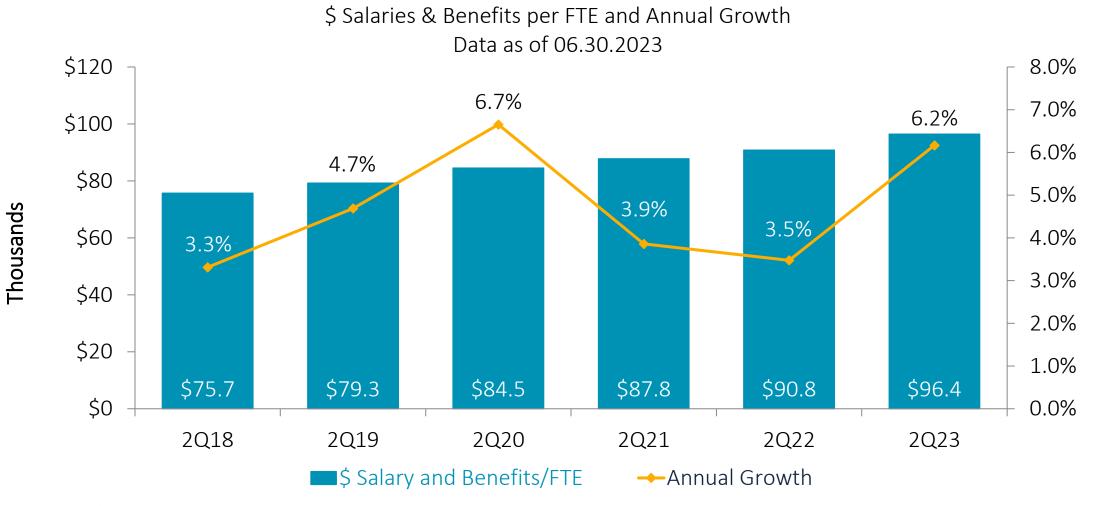
# Credit unions are growing their employee base to serve a growing membership





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# Employee compensation expands as credit unions compete for and reward talent

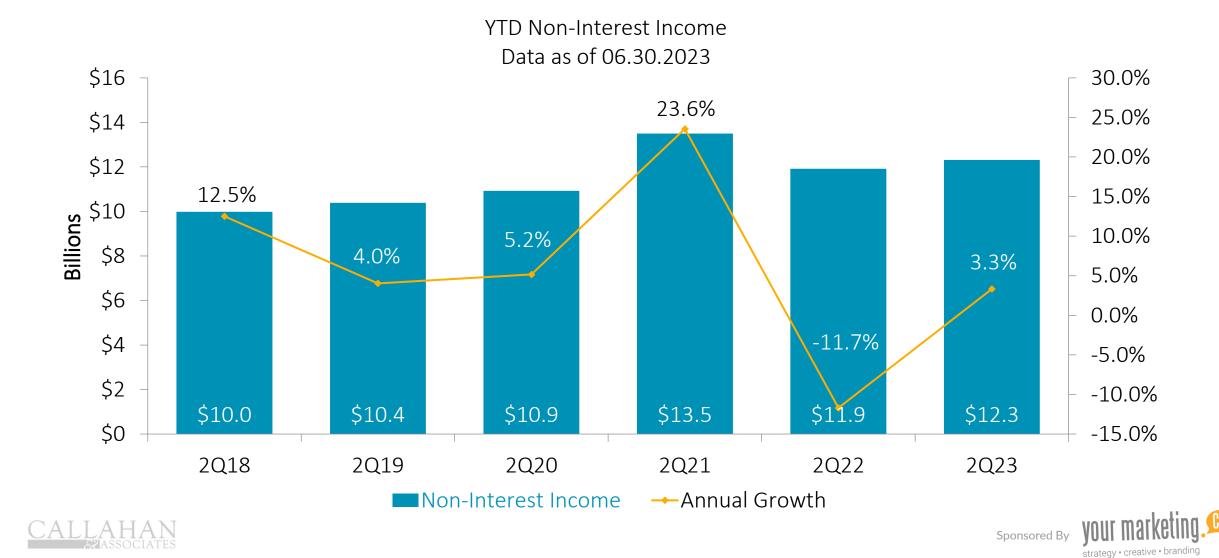


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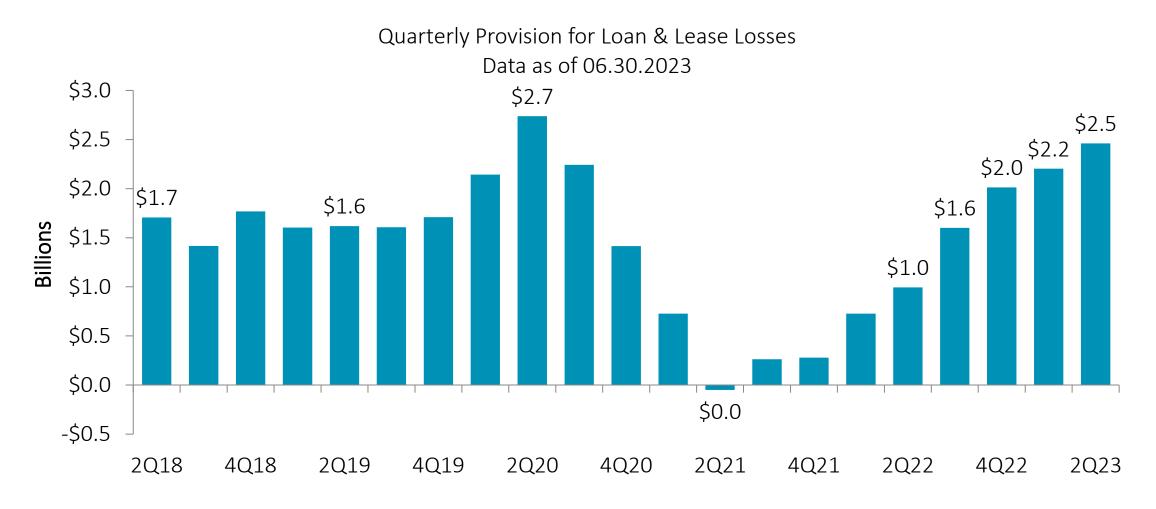
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### Non-interest income increases 3.3%



# Credit union provision expenses are rising as leaders prepare to serve

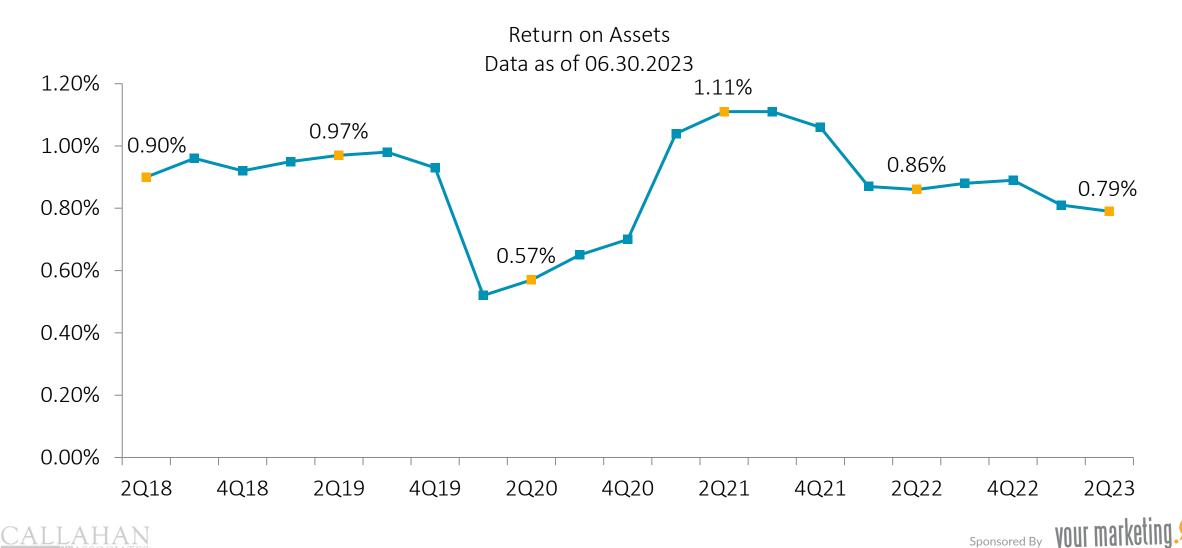


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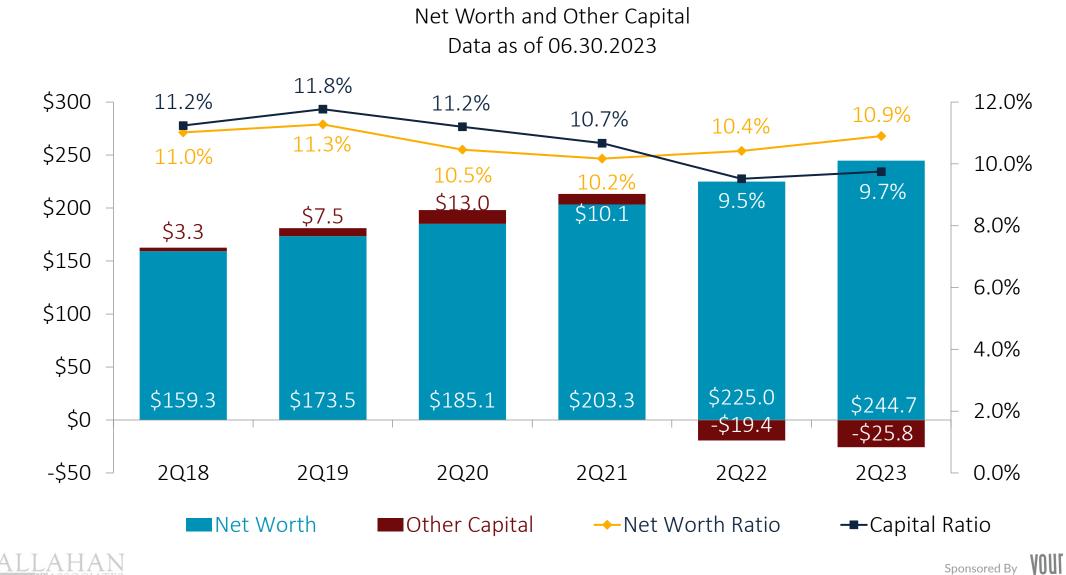


# ROA dips – mainly due to careful provisioning – but remains stable



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## Net worth and capital ratios are rising



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Billions

# Lessons & Looking Forward

- Don't let recency bias cloud perception of performance! We are returning towards normal patterns after three unusual years.
- The economy is slowing, but that is the intent of current monetary policy. Membership is growing in both size and engagement level.
- Remember that in challenging economic times, credit unions move toward opportunities rather than pull back. This is the credit union difference. A position of cautious optimism will help us leverage that difference to continue serving members.

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# THANK YOU For watching



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