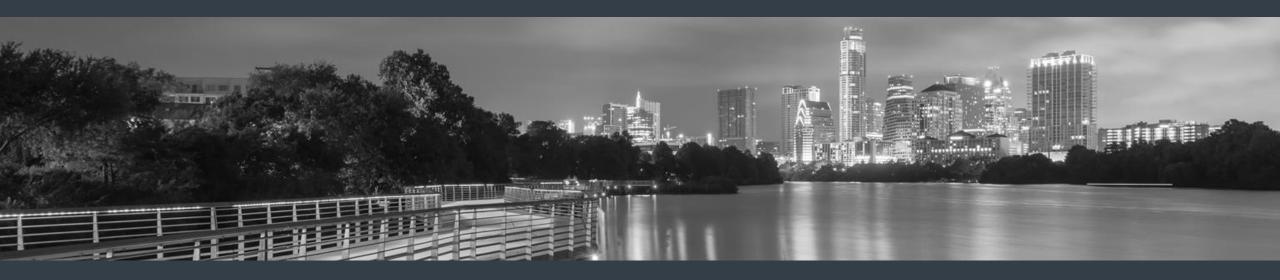
PALISADES

PROPRIETARY & CONFIDENTIAL

HOUSING & RESIDENTIAL CREDIT

MARKET INSIGHTS

4Q | 2022



Forward-Looking Statements & Other Important Disclosures

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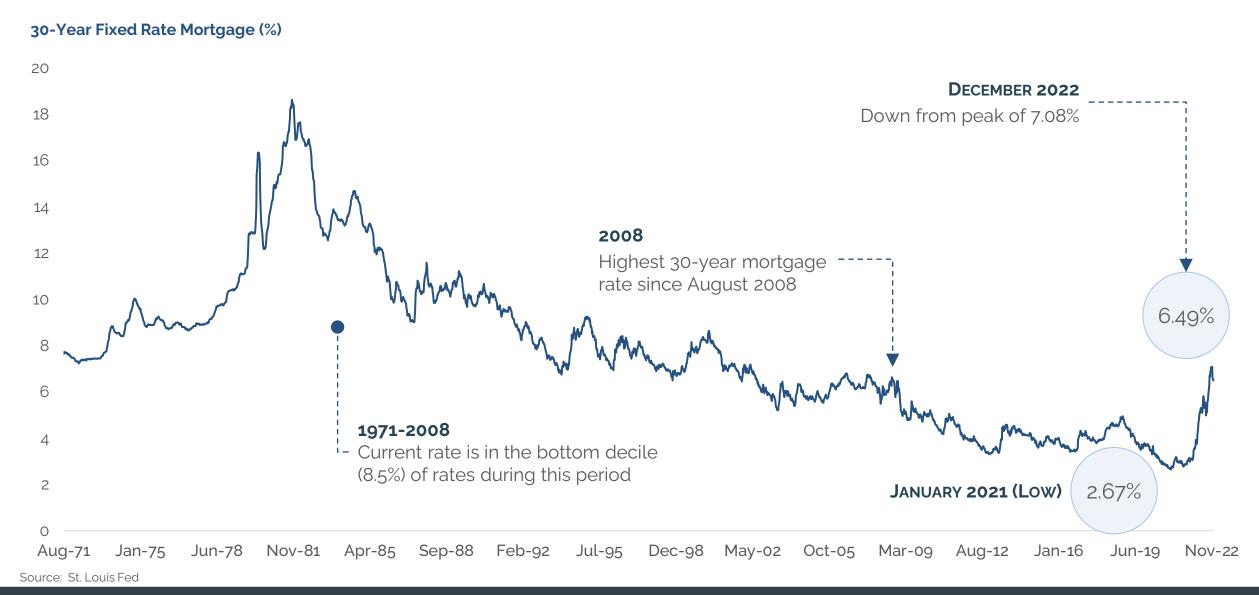
Topics of *conversation*

- Introduction to Palisades
- What do the headlines tell us?
- What does the data show?
- Housing supply & inventory
- Housing demand
- Housing affordability
- Housing transaction activity
- Mortgage interest rate universe & 'rate lock-in' effect
- Mortgage credit performance (delinquency activity)
- Market themes
- Credit spreads
- Investment landscape

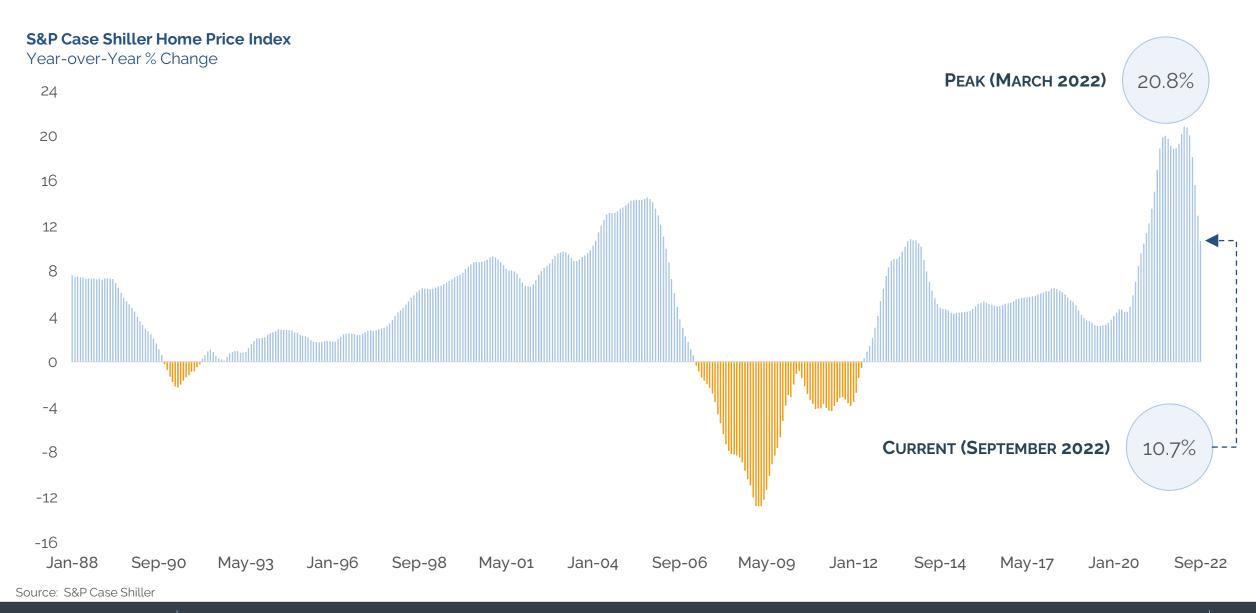
Key takeaways

- Housing inventory levels are low → likely to get worse
- Affordability is low → likely to get better
- Family formation will continue → creating pent-up demand
- Short term rates likely to remain elevated \rightarrow carry trade
- Credit spreads are high → likely to tighten
- Credit risk in housing is limited (equity, underwriting)
- Investors are shunning good assets, at good prices,
 in part because current financing does not pencil out

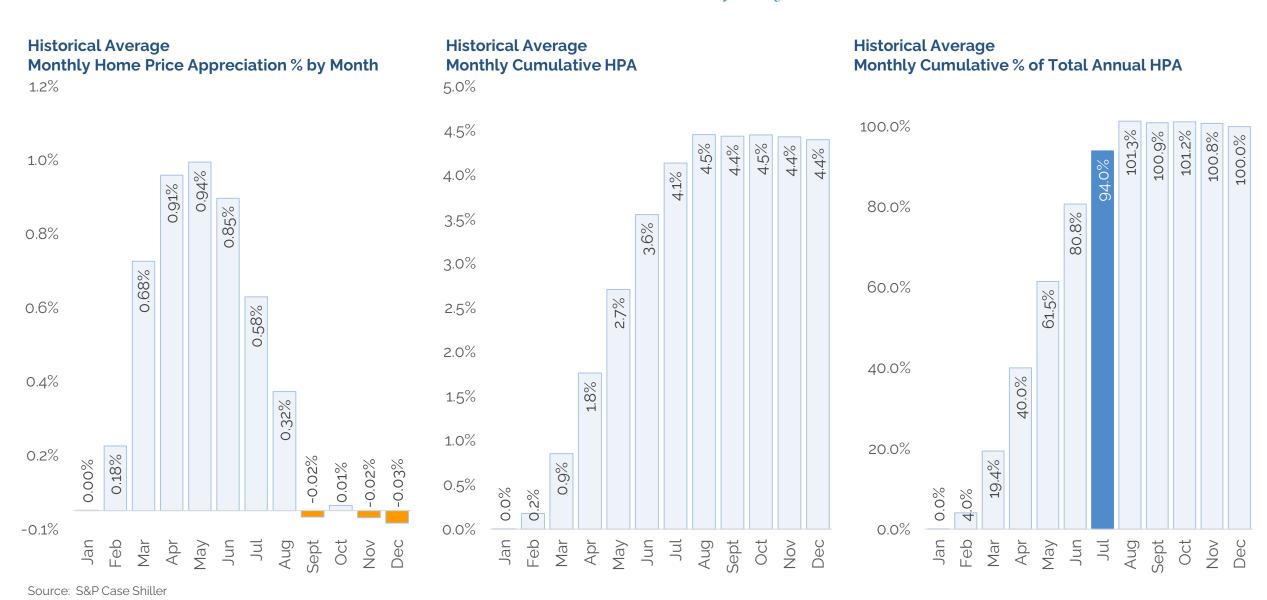
Rising interest rates have shocked an otherwise overheated mortgage finance and housing market



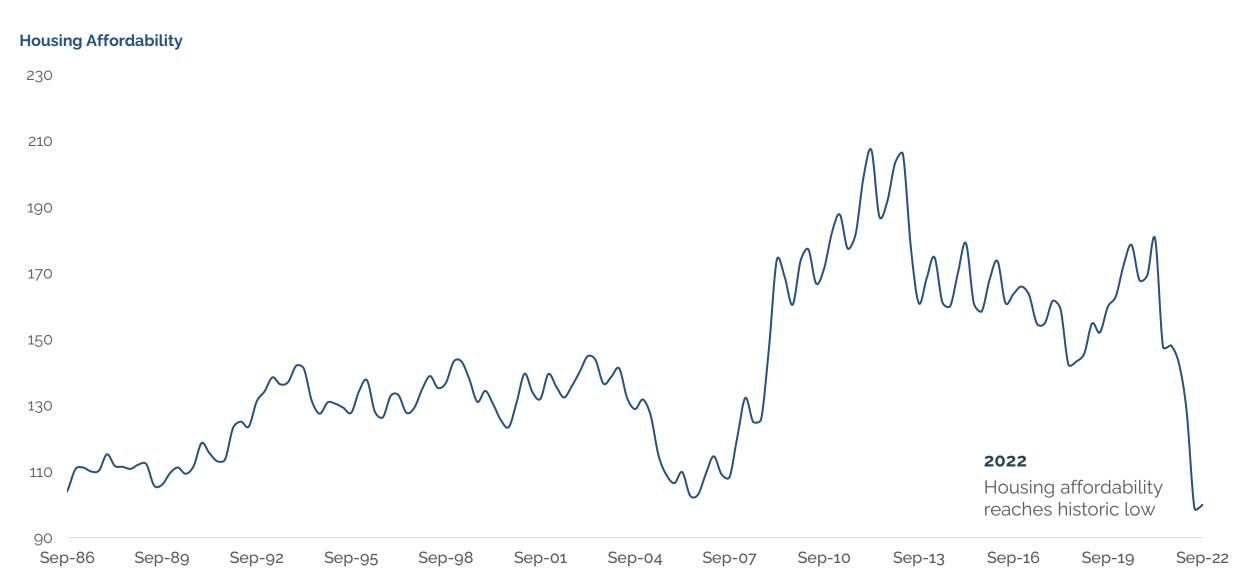
Home values surged as pent-up demand encountered low inventory levels



~94% of annual home price appreciation occurs in the first 7 months of the year

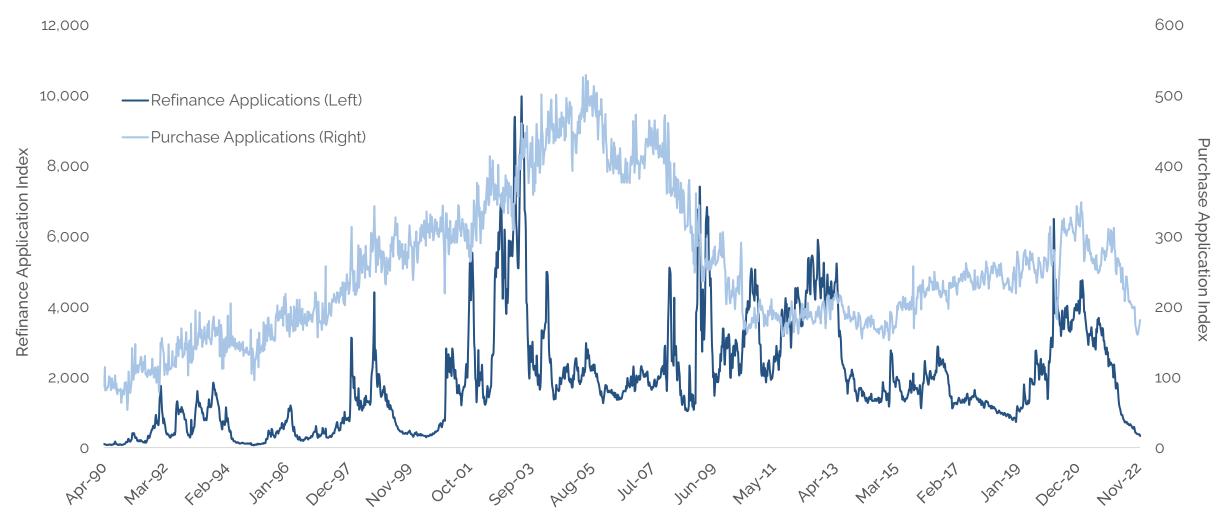


Housing affordability has reached historic lows driven by rising home values and rising interest rates



Demand, as seen through mortgage applications, have declined with refinance activity virtually non-existent

Mortgage Applications

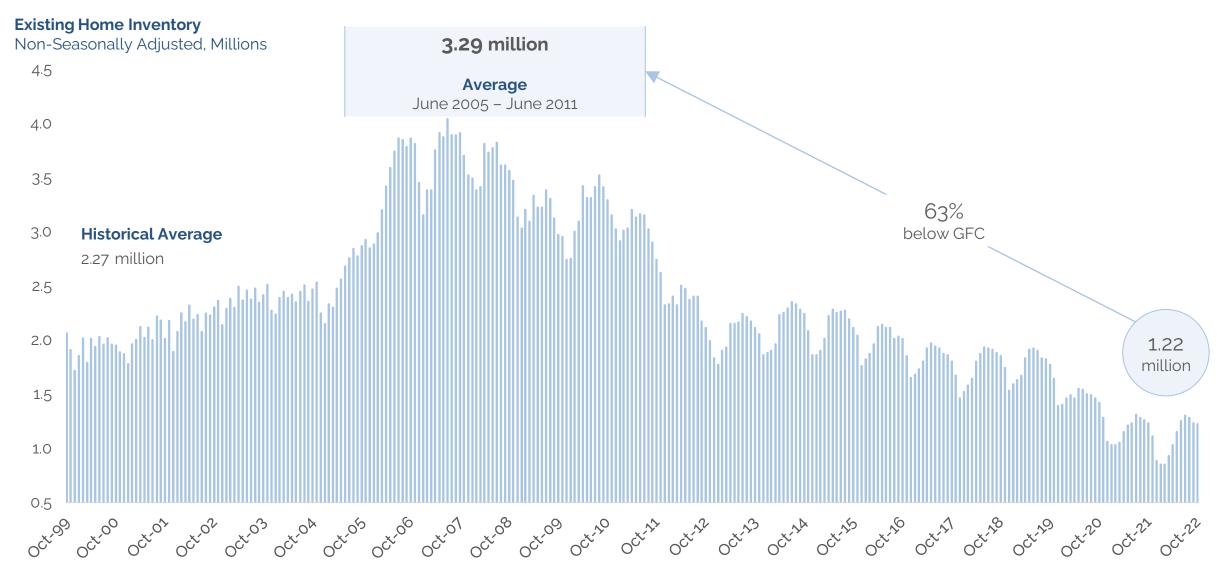


Source: Mortgage Bankers Association

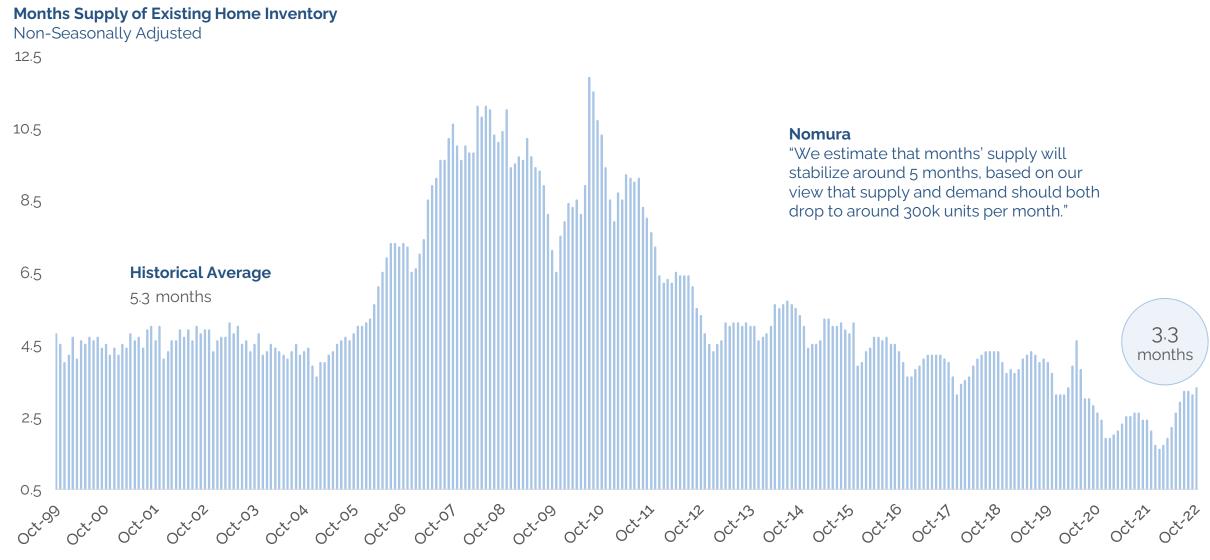
Housing transactions related to existing homes are down ~34% since post-COVID peak; likely to fall below 4MM



Existing home inventory is at *historic lows*



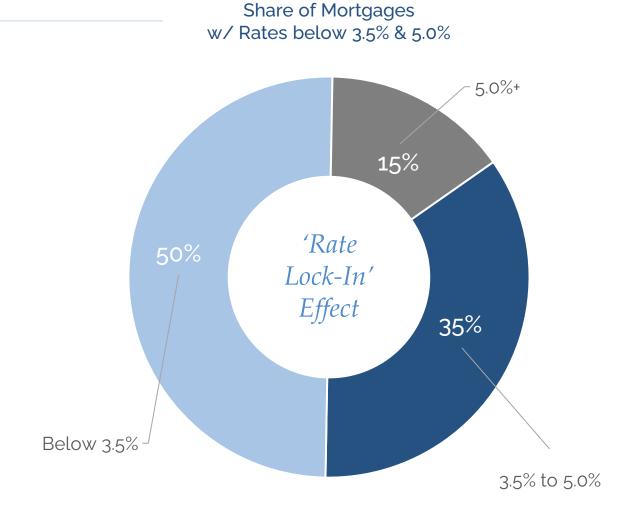
Months supply of existing homes has been increasing, but remains well below historical parity levels of 5-6 months



85% of existing mortgages have *rates below* 5% (~200 basis points out-of-the-money)



- Inventory is unlikely to come from existing housing stock
- Homeowners will not want to give up low-rate mortgages

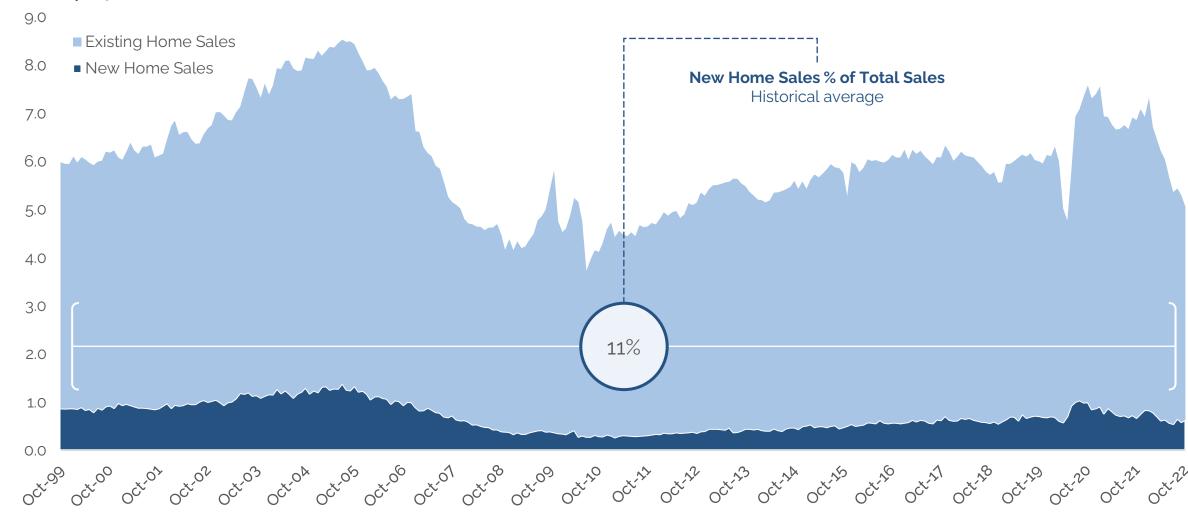


Source: Black Knight

Total home sales have declined led by existing homes

Existing & New Homes Sales (Stacked)

Seasonally Adjusted Annual Rate, in Millions



Source: Census Bureau

Months supply of new homes is often quoted, but the data is misleading

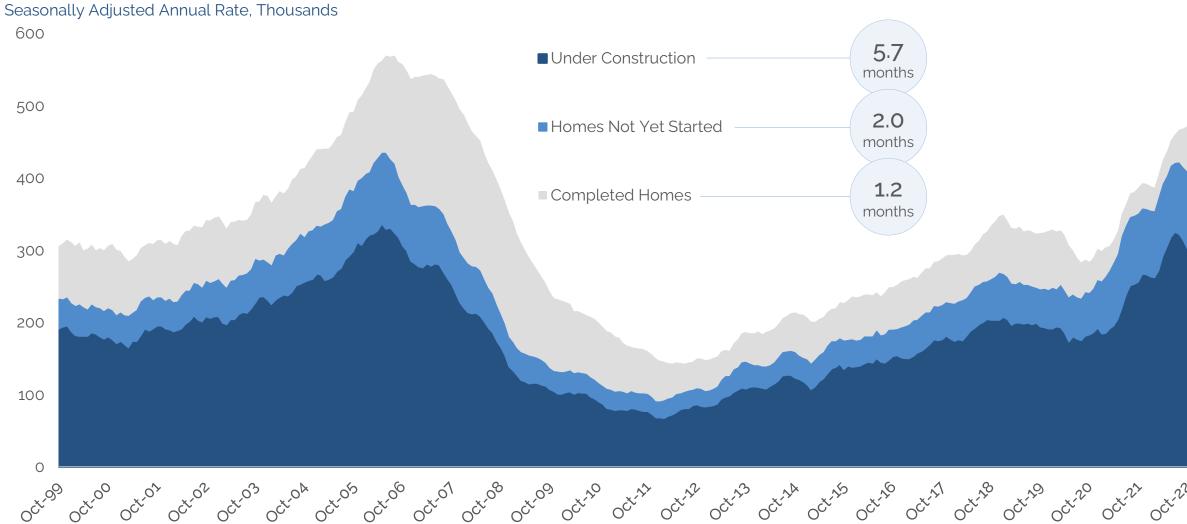




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Only ~13% of new home inventory is represented by completed homes





Source: Census Bureau

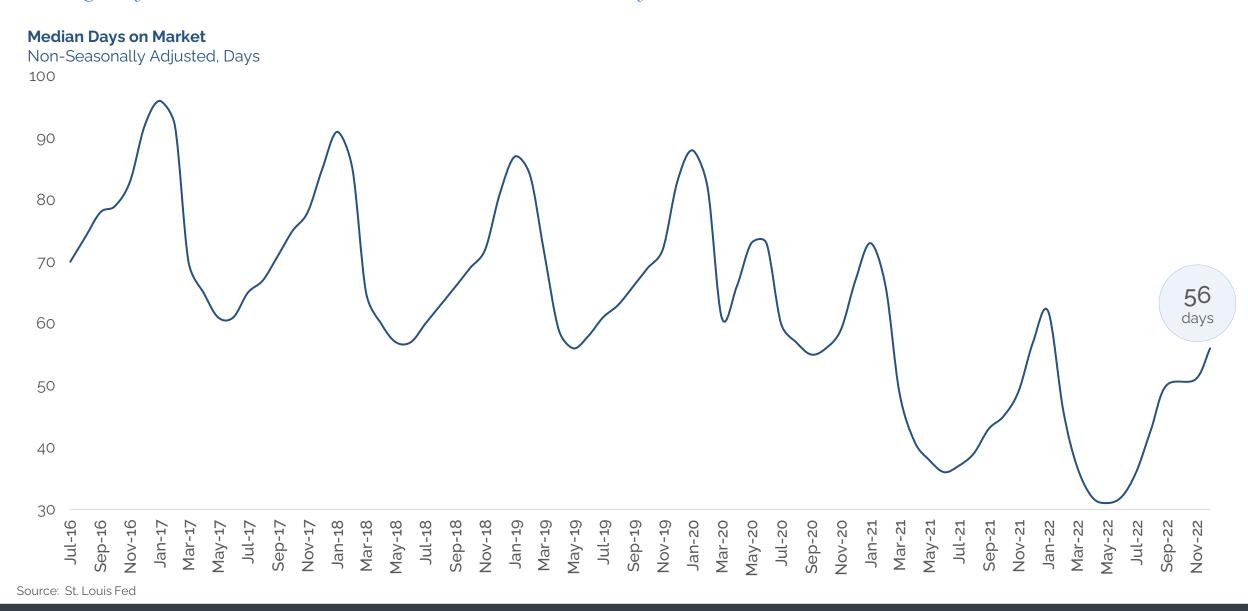
Slowing demand for housing is overshadowed by the lack of inventory





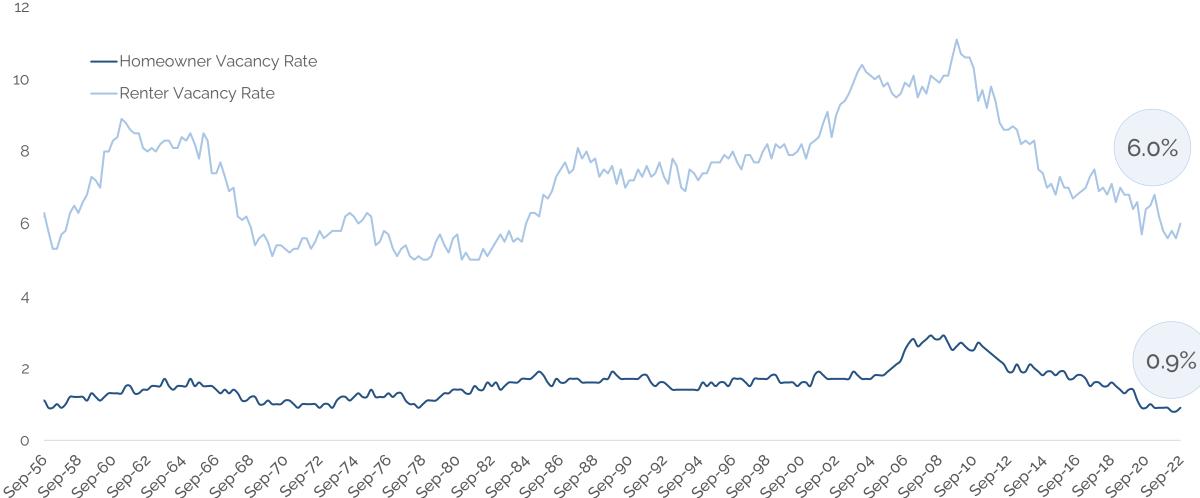
Source: Census Bureau

Average days on market for home listings remains low at 56 days



Vacancy levels across both owner and tenant occupied housing is at historic lows due to undersupplied housing market

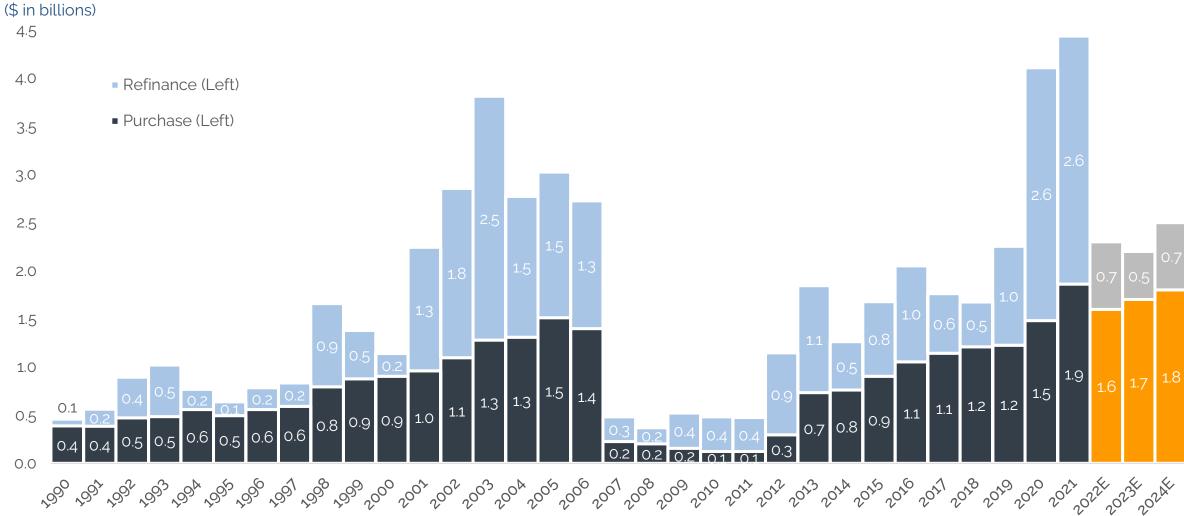




Source: Census Bureau

Mortgage origination surged in COVID-era low-rate environment both for purchase and refinance activity

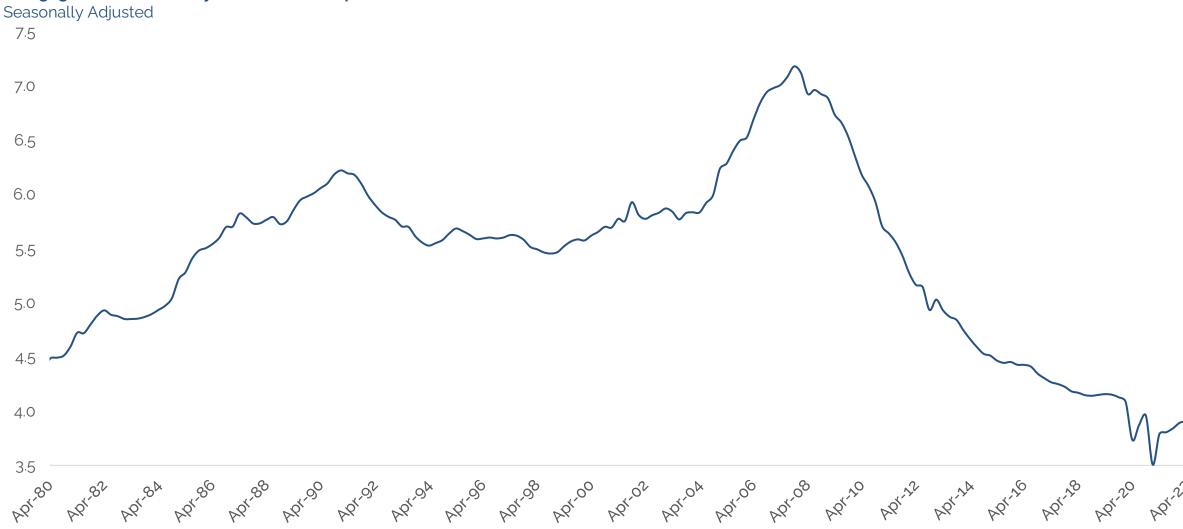
Mortgage Origination Activity & Forecast



Source: Mortgage Bankers Association

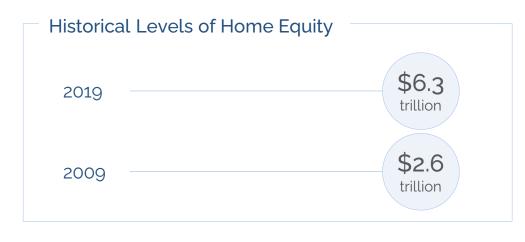
Mortgage payment to disposable income is at *historic lows* (everyone bought or refinanced into low interest rate loans)

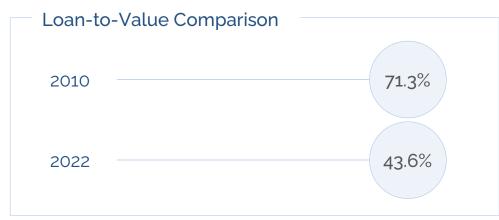


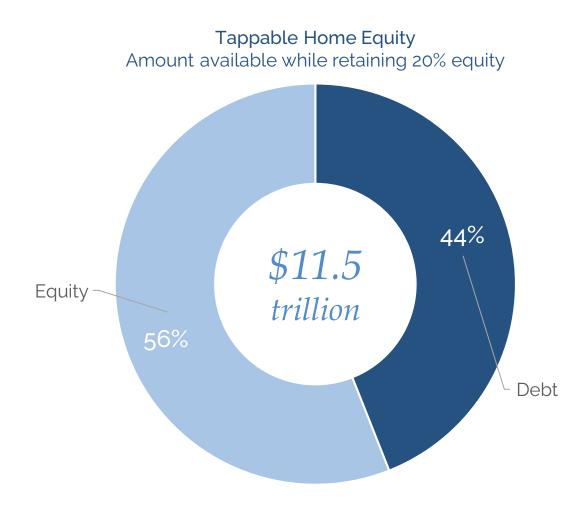


Source: St. Louis Fed

Historically high levels of *home equity provides cushion* against recession driven credit risk





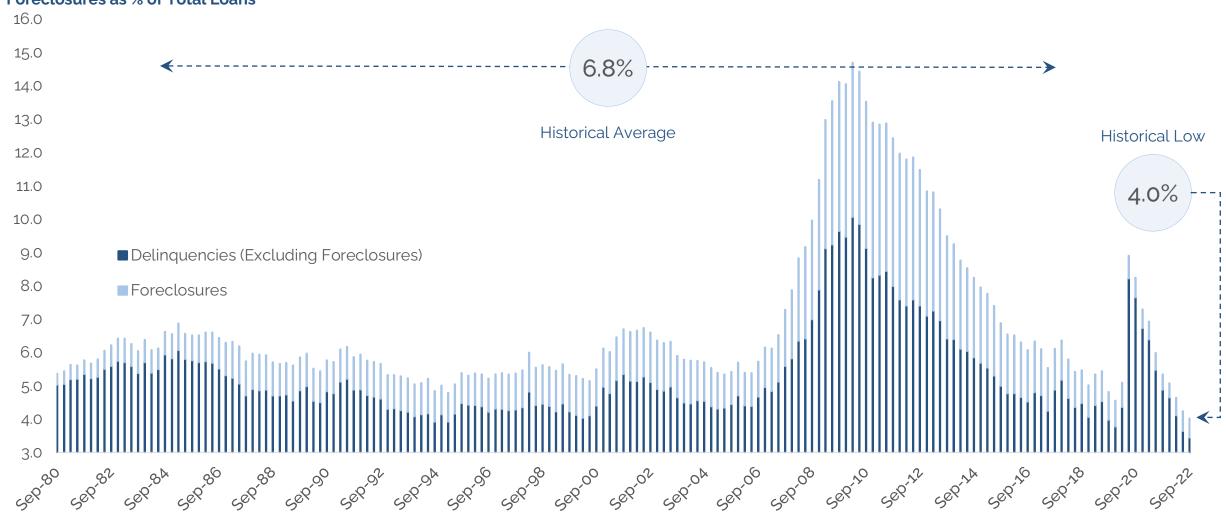


Roughly 3.6% of the 53 million mortgages outstanding in the U.S. have 10% equity or less.

Source: Black Knight, CoreLogic

Delinquent loans and those in foreclosure are trending at historic lows

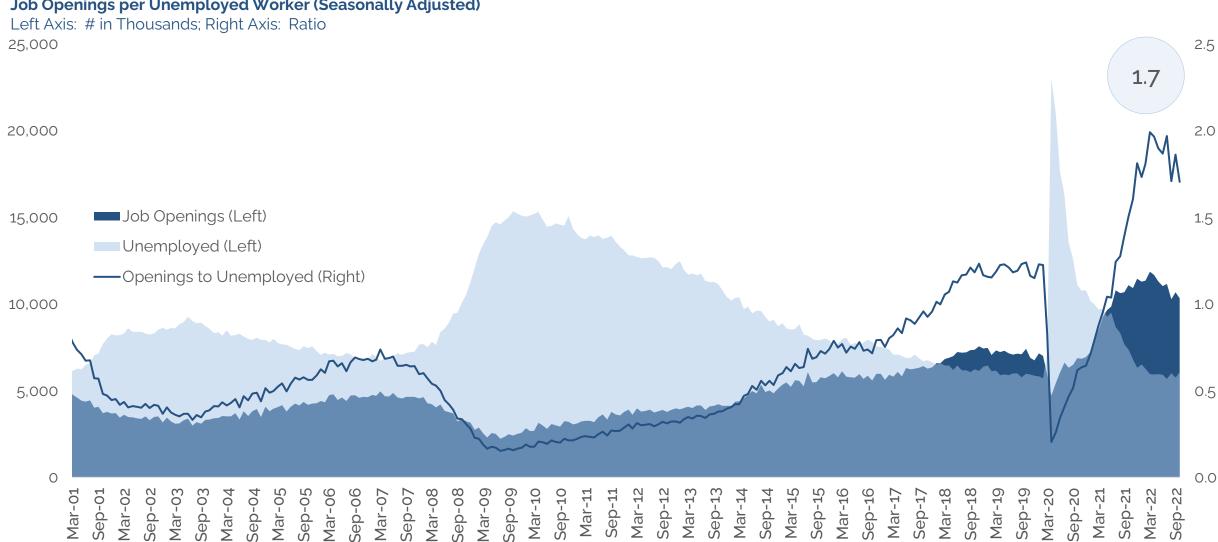




Source: Mortgage Bankers Association

Nearly 2 job openings for every unemployed worker in the US

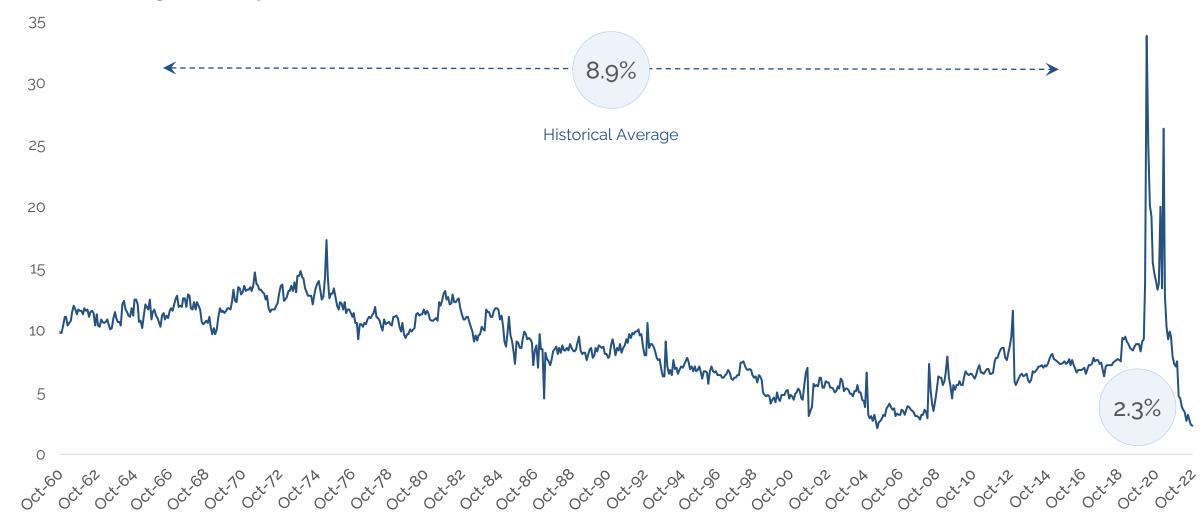




Source: Bureau of Labor Statistics

Signs of stress may be emerging as savings rates decline

U.S. Personal Savings as % of Disposable Income



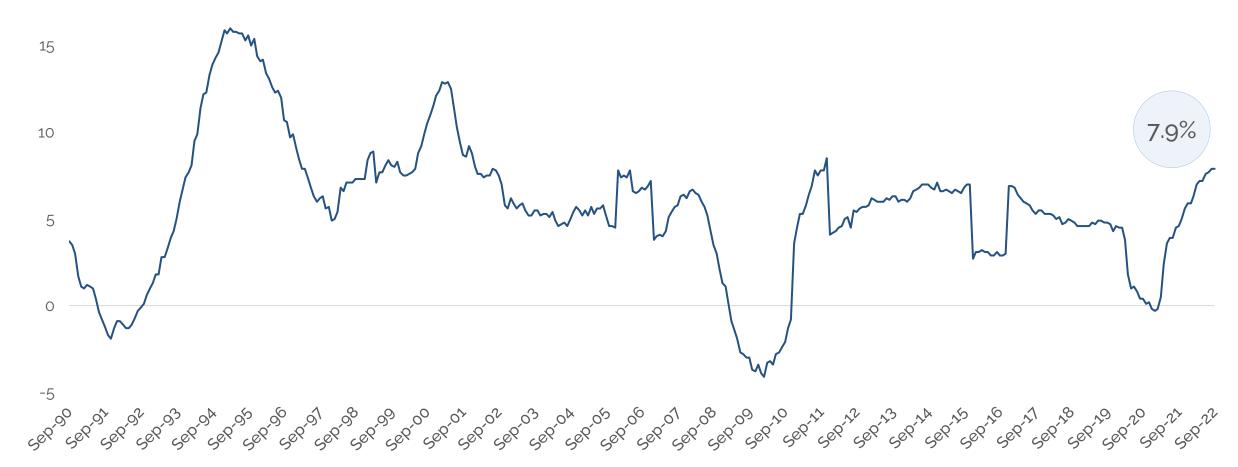
Source: Bureau of Economic Analysis

23

Consumers have gone back to the well on credit card spending

Consumer Credit Outstanding

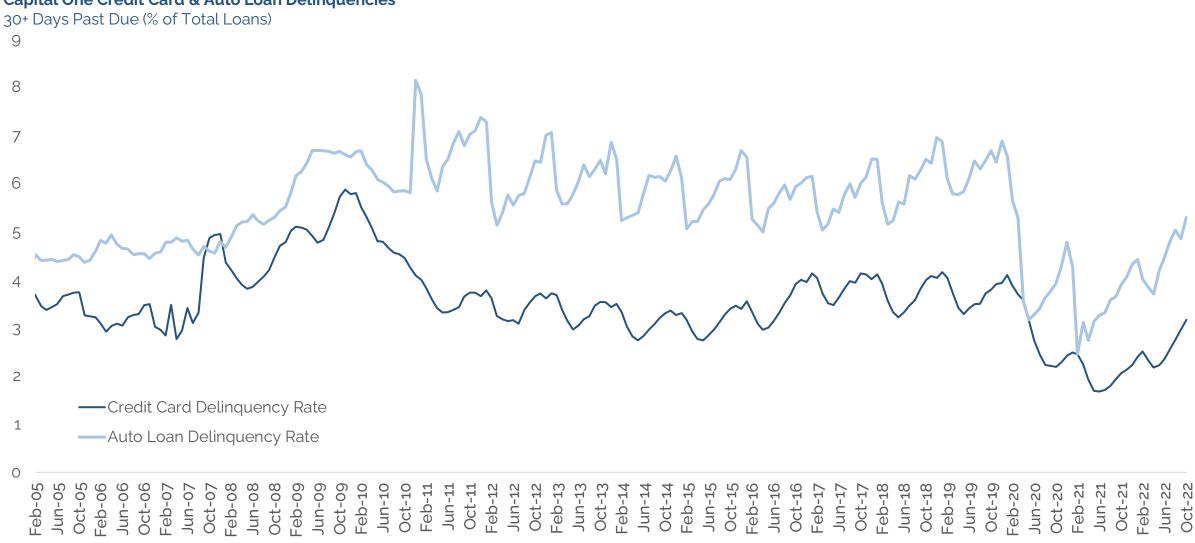
Year-over-Year % Change, Seasonally Adjusted 20



Source: Federal Reserve

Credit card and auto loan delinquencies are showing signs of weakness and delinquencies are on the rise





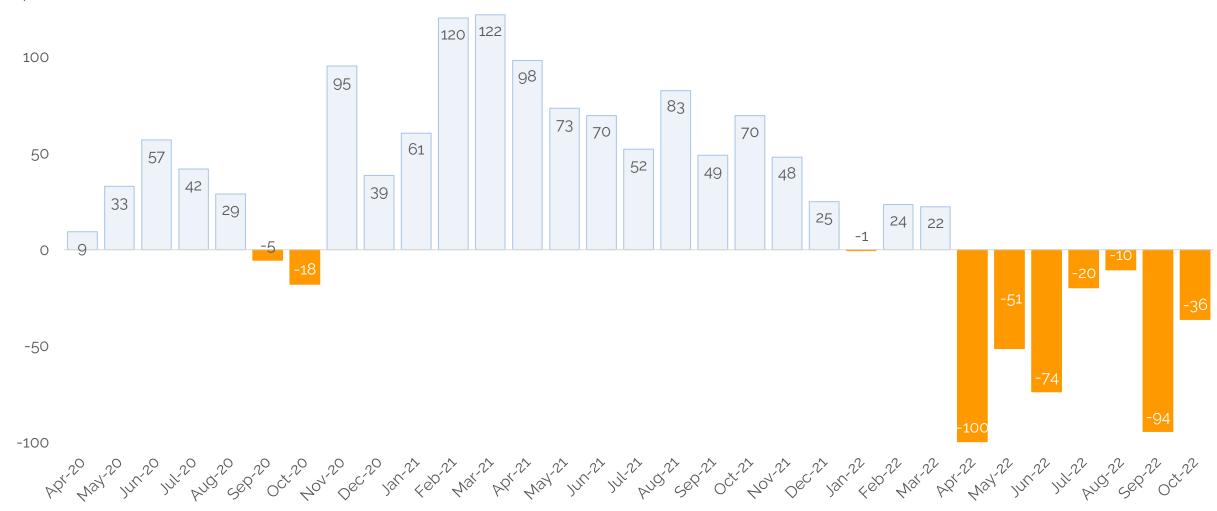
Source: Capital One

Inverted yield curve creates *challenging* environment for levered strategies



Mutual fund & ETF outflows have left a significant gap in liquidity across fixed income markets

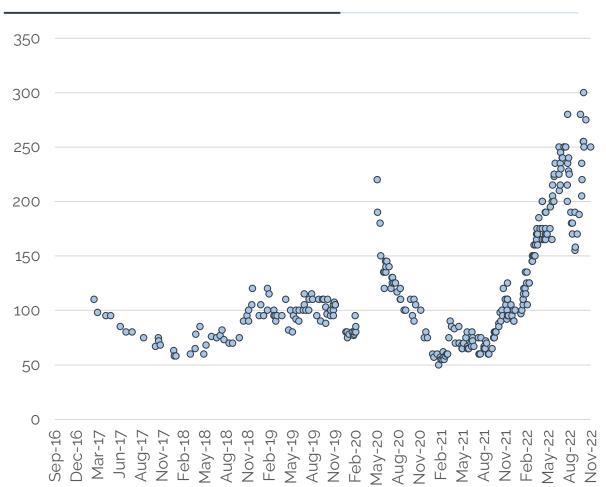
US Mutual Fund and ETF Flows \$ in Billions



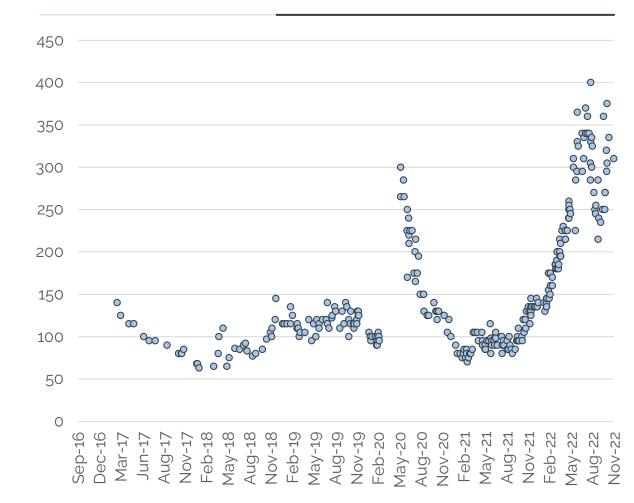
Source: Investment Company Institute

Widening of credit spreads on top of benchmark rates has created attractive absolute bond yields

NON-QM AAA CREDIT SPREADS (BASIS POINTS)

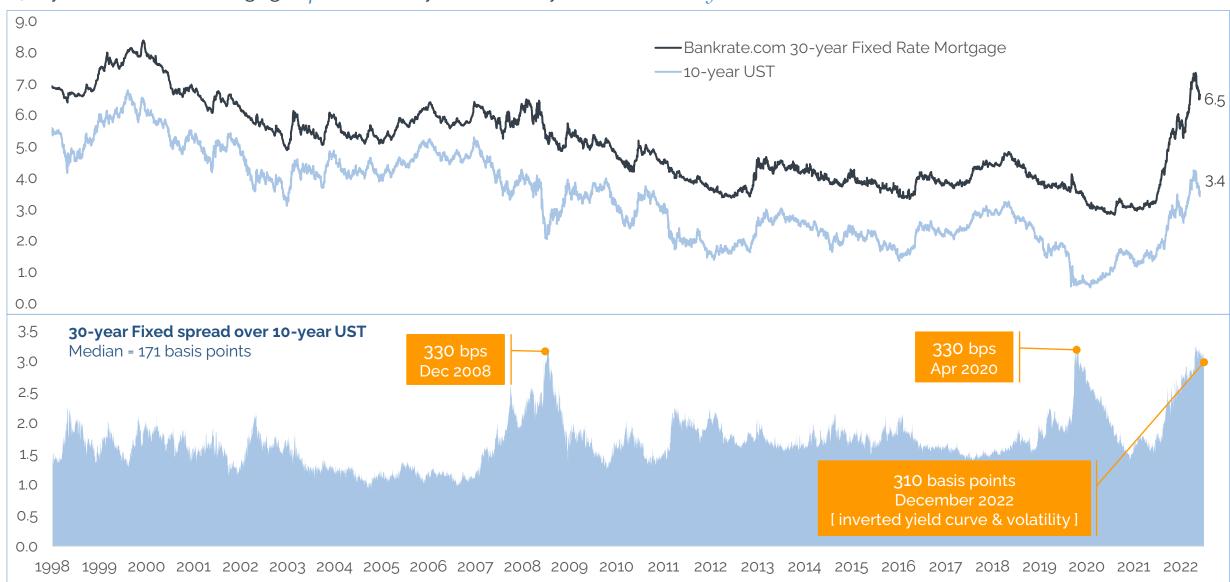


NON-QM AA CREDIT SPREADS (BASIS POINTS)



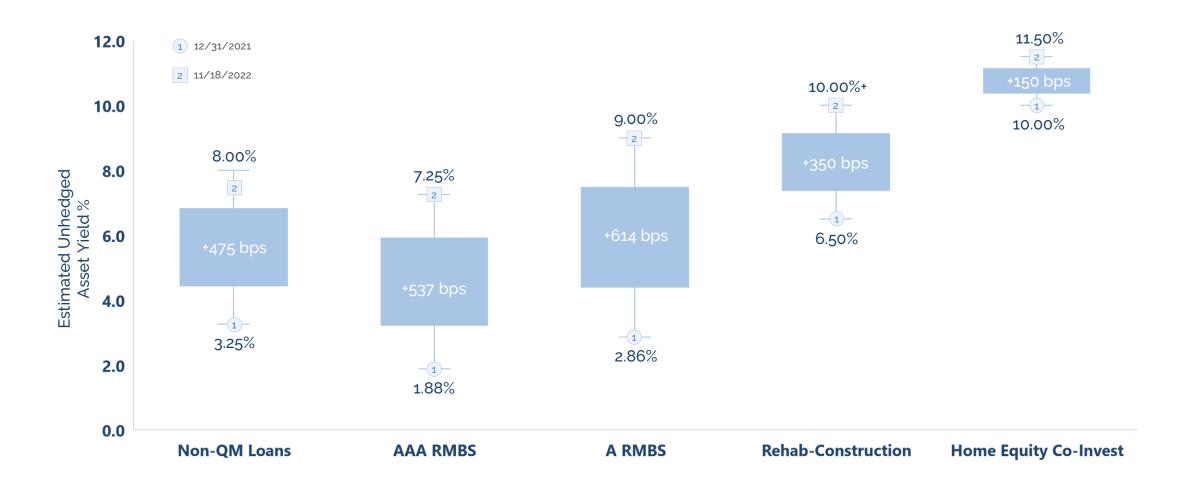
Source: Nomura

30-year fixed rate mortgage *spread* of 10-year Treasury is at *historically wide levels*



Source: Bankrate.com, Bloomberg

Duration risk has been re-priced with both benchmark rates and credit spreads widening

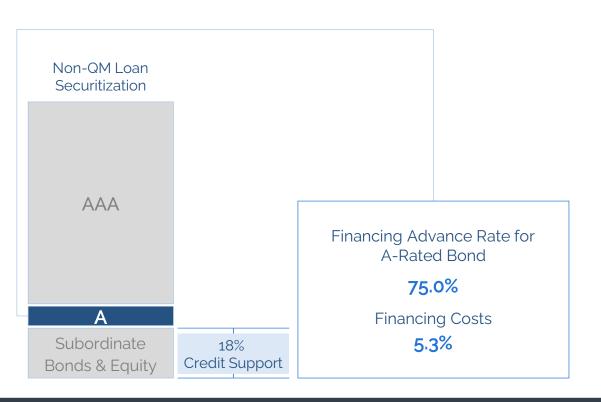


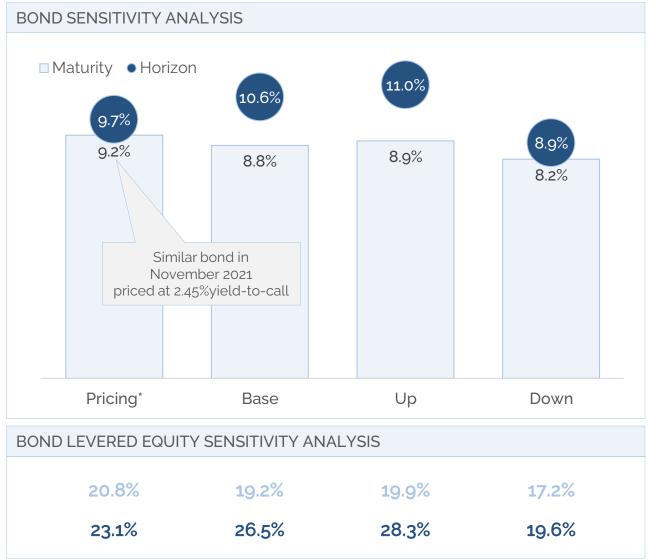
Source: Palisades, Nomura

- What is most interesting in residential credit products today?
 - RMBS
 - Non-qualified mortgages
 - *Scratch-n-dent loans*
 - *Rehab/construction loans*

High grade RMBS presents definable downside risk with significant upside skew

IMPRL 2022-NQM7	
Collateral Type	Non-QM Loans / DSCR
WA Mortgage Rate	7.964%
WA Credit Score	745
WA LTV	72.1%





^{*} Pricing scenario run to issuer's optional call.

Agency Loan Underwriting Defects (Scratch-n-Dent)

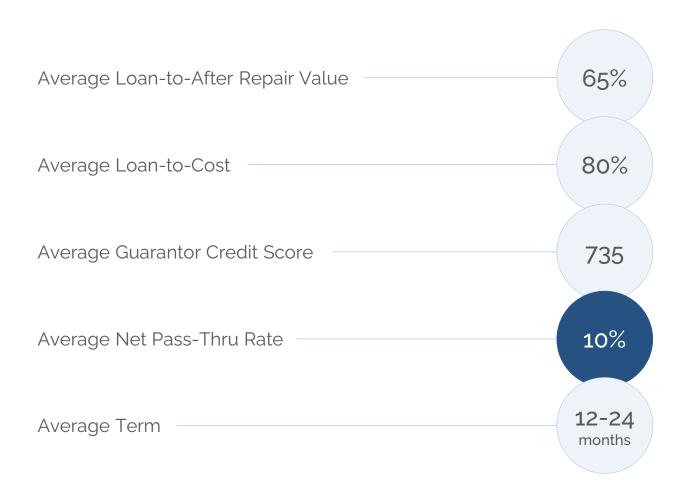
- *Product:* 30-year fixed consumer loans originated in 2020-2022 (low interest rates)
- *Eligibility Breaches*: income documentation, title, or other underwriting defects
- Credit Risk: significant equity and super prime borrower credit profile reduces default risk
- Collateral Protection: purchase price attaches at ~40-50% of property value; 50-60% cushion

COLLATERAL CHARACTERISTICS	
Seller	Money Center Bank
Amount	\$375 million
WA Mortgage Rate	3.43%
WA Credit Score	766
WA LTV	55.6%
Fixed Rate %	96.0%
Owner Occupied %	83.4%
WA Loan Age	36 months
Judicial State %	55.2%
Delinquency %	0.5%
Top State %	NY-31%; CA-16%
Clean Pay (24 / 12 months)	14.5% / 62.9%

SCENARIO>	BASE	UP	DOWN	TRADE ⁽¹⁾		
Assumed Price	7	70% (30% discount to loan balance)				
Prepayment Speed	6.00	9.00	5.00	6.00		
Default Rate	1.25	1.25	3.00	1.25		
Loss Severity	15.00	15.00	25.00	15.00		
Curaulativa Dafaulta	44.400/	9.06%	25 550/	14.400/		
Cumulative Defaults	11.12%	8.96%	25.55%	11.12%		
Cumulative Loss	1.67%	1.34%	6.36%	1.67%		
Advance Rate	80.0%	80.0%	80.0%	80.0%		
Avg. Forward SOFR	4.0%	4.0%	4.0%	4.0%		
Spread	2.5%	2.5%	2.5%	2.5%		
Cost of Funds	6.5%	6.5%	6.5%	6.5%		
Asset Sensitivity	9.00%	10.36%	8.38%	11.10%		
Levered Asset Sensitivity	19.08%	25.88%	15.98%	29.58%		
(a) Assumed the second of the Martin Wa	- 1.00/ 1.110/	-				

⁽¹⁾ Assumes loans are sold in Month #24 at 8% yield, or 75.2% of loan pool balance.

Short Duration Rehab & Construction Loans



- *Borrowers*: professional builders and experienced developers
- Collateral Protection: significant cushion to final property value

• Credit Risk: mitigated by experience and credit quality of borrowers

• *Interest Rate*: short duration loans with limited rate risk

What we are seeing...

Residential Credit Products

- Ability to buy well-protected collateralized credit and cash flows at attractive risk-adjusted returns
- Duration risk is much more balanced today than 12 months ago (positively skewed in the investor's favor)
- Credit spreads are more likely to compress than widen
- Default risk is manageable and, in some cases, can be accretive to returns

Housing

- Catalysts for Current Market Disfunction: materially different than 2008 housing and financial crisis
 - 2008 (Credit Risk Environment): Leveraged credit bubble with excess housing inventory
 - o 2022 (Rate Risk Environment): Contained credit risk and undersupply of housing units
- Distressed Supply: unlikely given current credit quality and home equity
- Housing Inventory Levels: Likely to remain below equilibrium due to 'rate lock-in' effect and homebuilders pulling back
- Mortgage rates have the potential to tighten further
- Pent-up Demand: Ongoing family formation expected to eventually be released in the form of excess demand

PALISADES

CHICAGO

HEADQUARTERS

SANTA MONICA

909 Davis Street Suite 500 Evanston, IL 60201

6001 Bold Ruler Way Suite 110 Austin, TX 78746

T: 512-361-2460

www.palisades.us.com

2450 Colorado Avenue Suite 215 Santa Monica, CA 90404