



AMERICAN
BANKRUPTCY
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Distressed Real Estate Symposium

Keynote Address

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Dr. Sam Chandan

C. H. Chen Institute for Global Real Estate Finance
New York University's Stern School of Business; New York

Navigating the Economic and Real Estate Market Inflexion

May 1, 2024 | American Bankruptcy Institute | Ojai, California


Sam Chandan, PhD MPH MSc FRSPH FRICS[†]

Founding Director, Chen Institute for Global Real Estate Finance

[†]Fellow of the Royal Society of Medicine, Royal Society for Public Health, and Royal Institution of Chartered Surveyors; Contributing Member of the American Society for Microbiology. For more information, visit www.samchandan.com

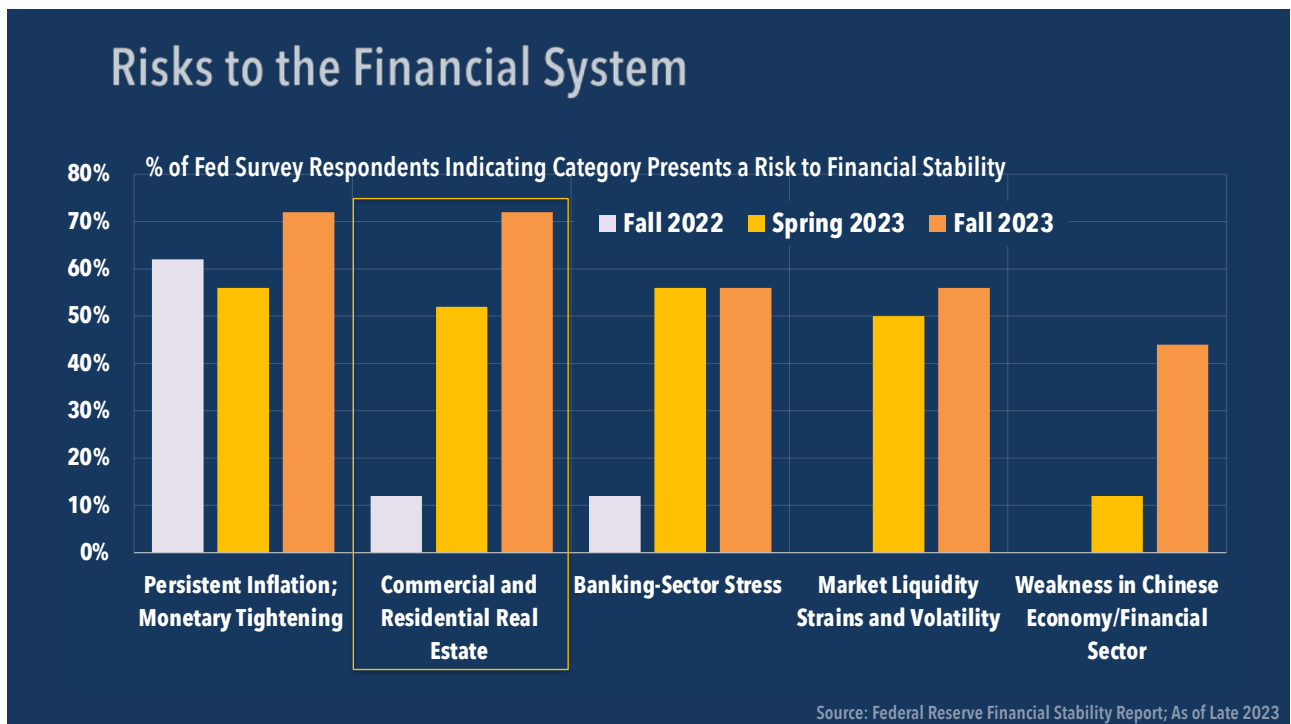


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A photograph showing the interior of a modern train car. The seats are a mix of orange and red, arranged in rows. The train has large windows and overhead lighting. The perspective is from the aisle looking towards the front of the car.

Our relationship to the built environment is always evolving, but never so quickly as today

Image: Getty



Baseline Economic Outlook

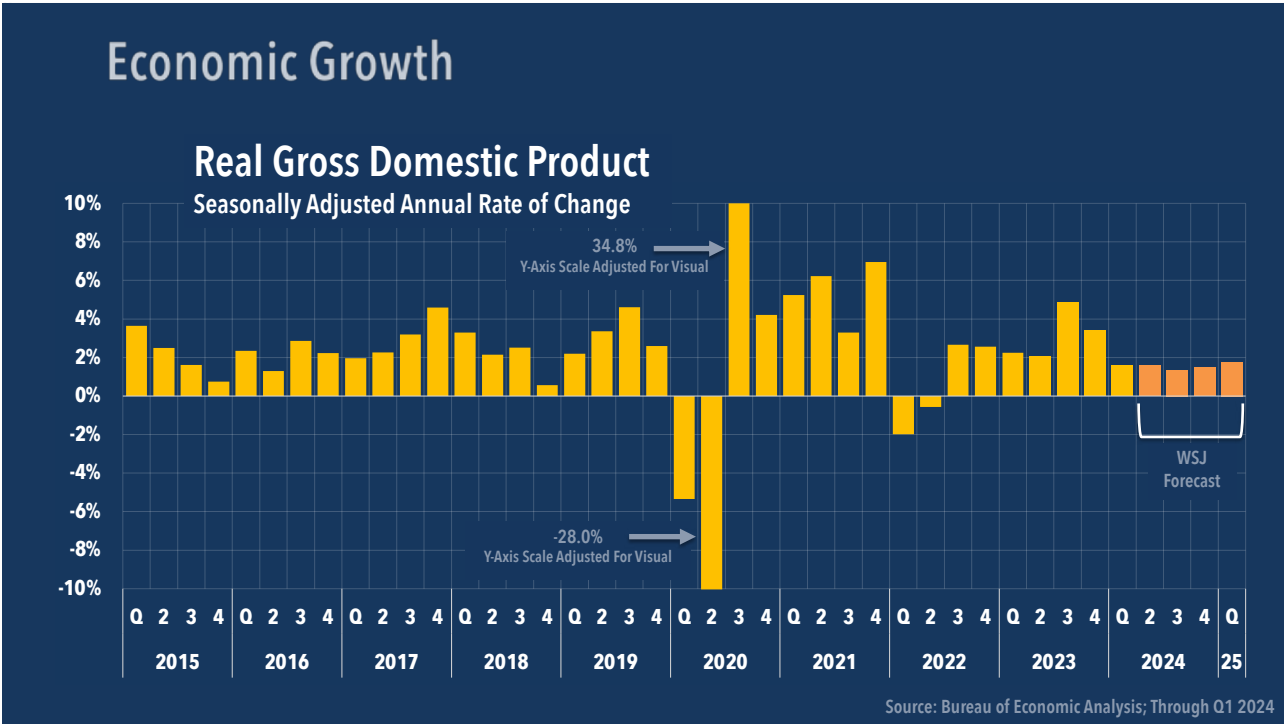
Macro Economy	Diminished risk of recession, reflecting peak in monetary policy cycle and labor market strength
Inflation and Interest Rates	Policy rates at their peak. More manageable but persistent inflation limiting pace and magnitude of policy rate cuts. Long-term rates could still rise
Labor Market	Remarkable but waning resilience in labor markets. Weakness concentrated in specific sectors, including technology, financial services, and real estate
Demographics	Long-term demographic and migration patterns favoring areas with more business and consumer friendly environments
Local Economies	Underassessed headwinds from local fiscal policy imbalances, challenges in meeting public service demands, and climate risk

Emerging Issues for the Built Environment

Repurposing	Long-term shifts in space use patterns driving investment in repurposing of legacy assets, with new uses overweighted to the residential sector
Distress and Capital	Broad retreat in the capital stack beginning to ease. But still early in the process of resolving distress
Urban Viability	Legacy cities grappling with challenges to fiscal stability and competitiveness in attracting and retaining jobs and skilled households
New Technologies	Quicker pace of adoption of new technologies, ranging from construction materials innovation to generative artificial intelligence
Resilience	Investment in urban infrastructure and institutional asset decarbonization, with limited new construction pipeline



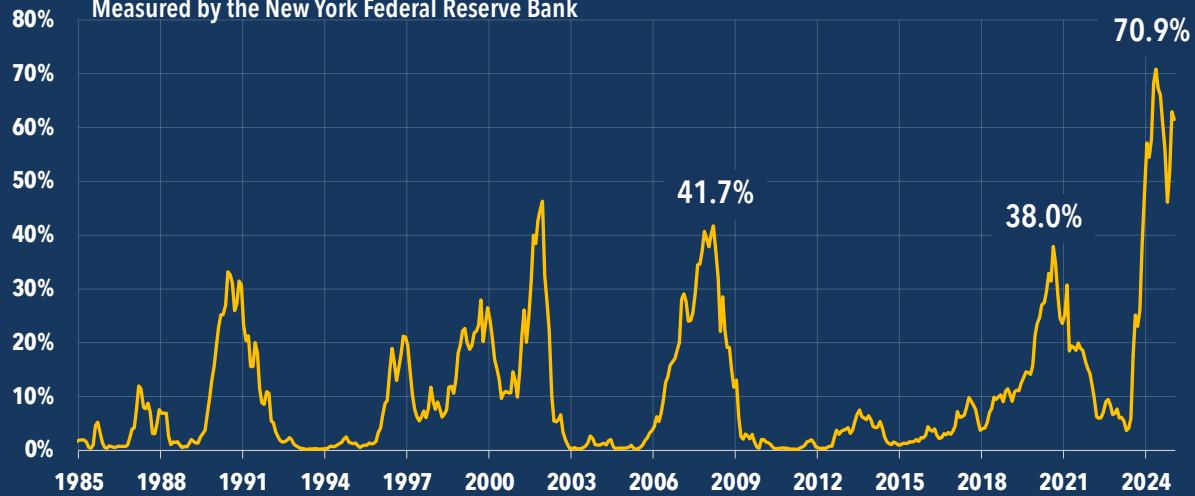
The Economy



Classical Recession Indicators Flashing Red

Recession Probability 12-Months Ahead

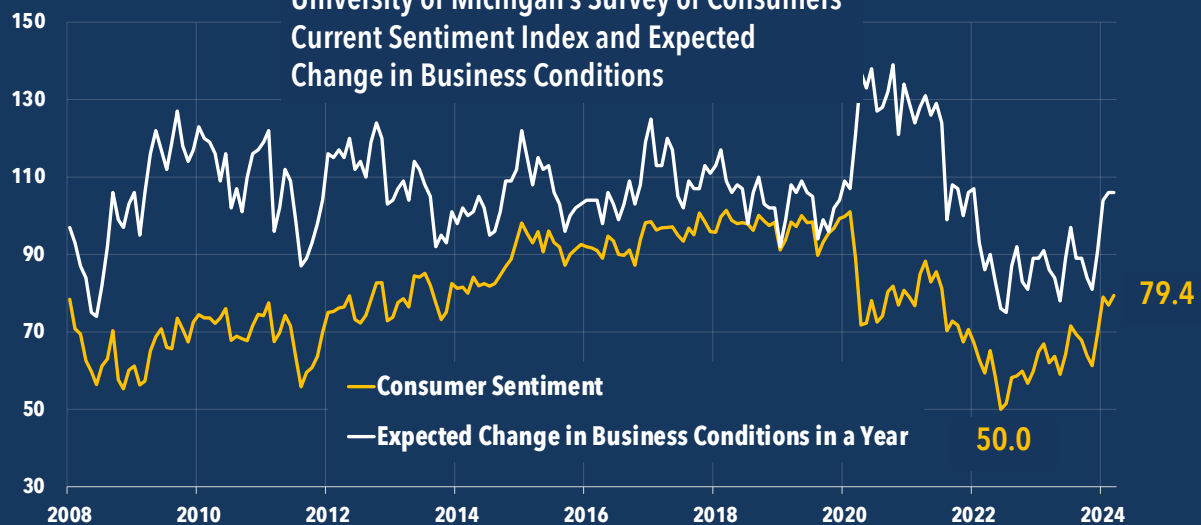
Measured by the New York Federal Reserve Bank



Source: NY Federal Reserve; Through February 2024

Consumer Outlook Improving

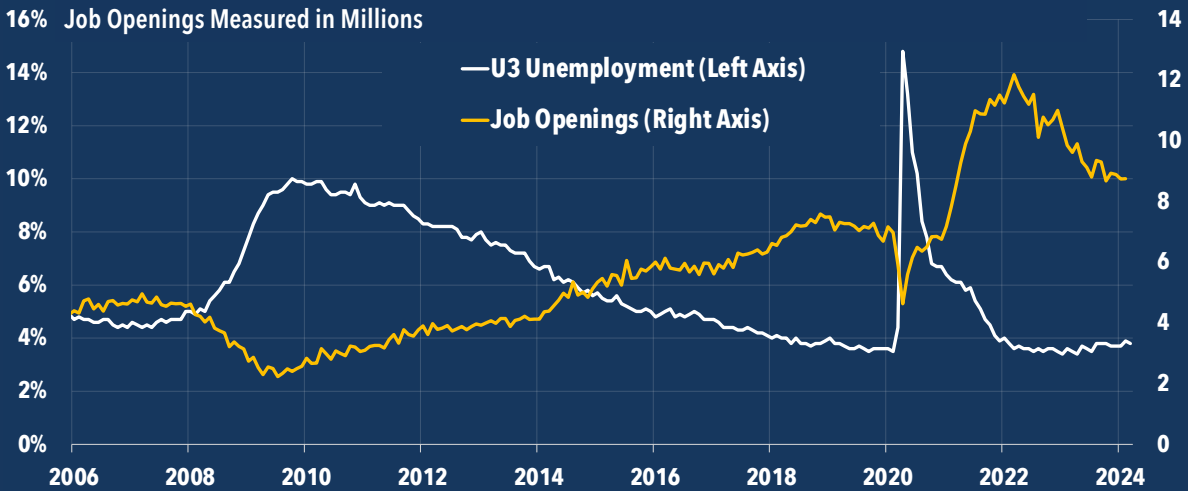
University of Michigan's Survey of Consumers
Current Sentiment Index and Expected
Change in Business Conditions



Source: University of Michigan; Through March 2024

Labor Market Remains Tight

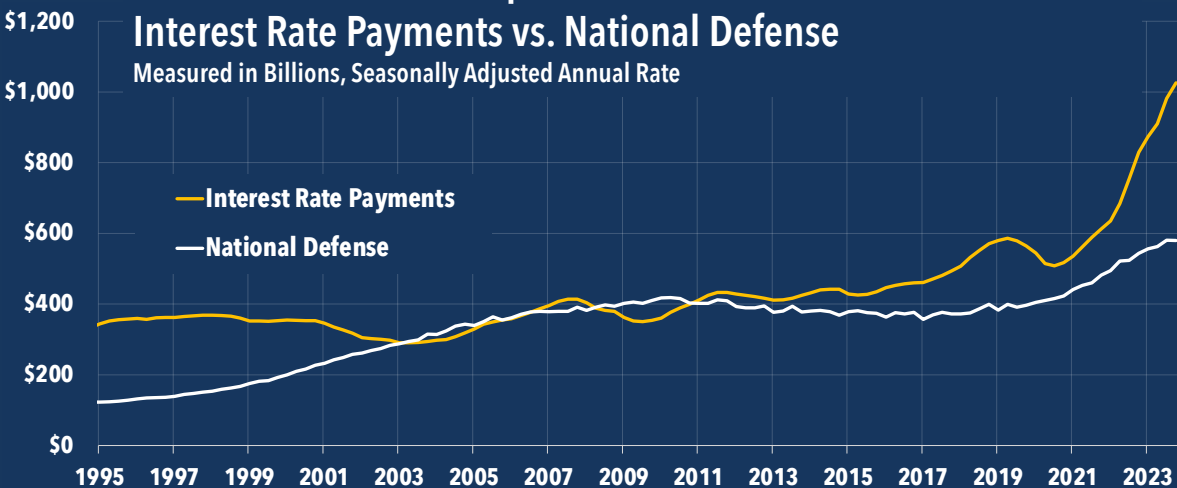
Unemployment Rate and Job Openings



Our Fiscal Outlook is Unsustainable

Federal Government Expenditures: Interest Rate Payments vs. National Defense

Measured in Billions, Seasonally Adjusted Annual Rate

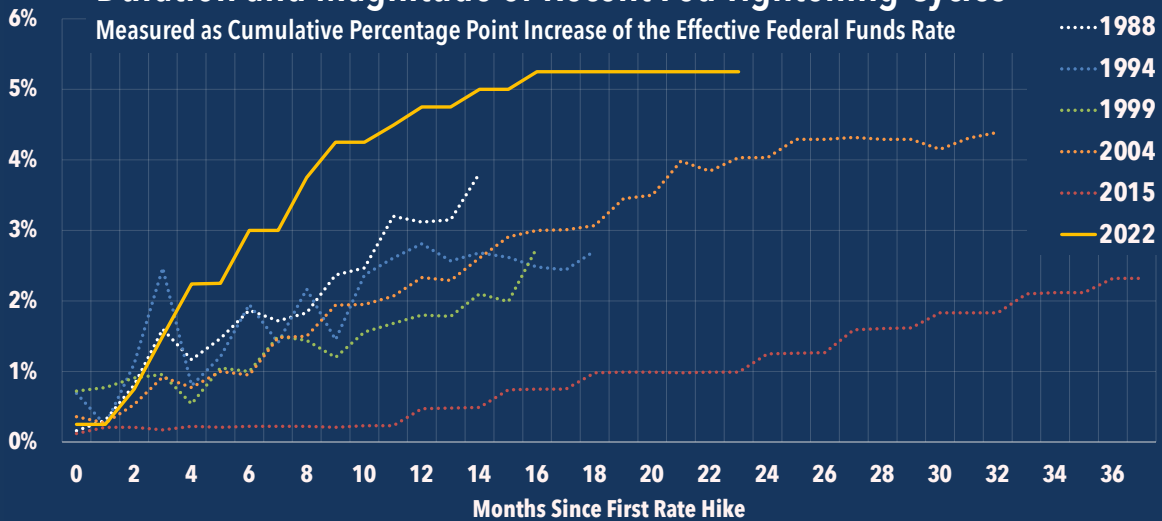


Inflation & Interest Rates

Record-Setting Increases in the Policy Rate

Duration and Magnitude of Recent Fed Tightening Cycles

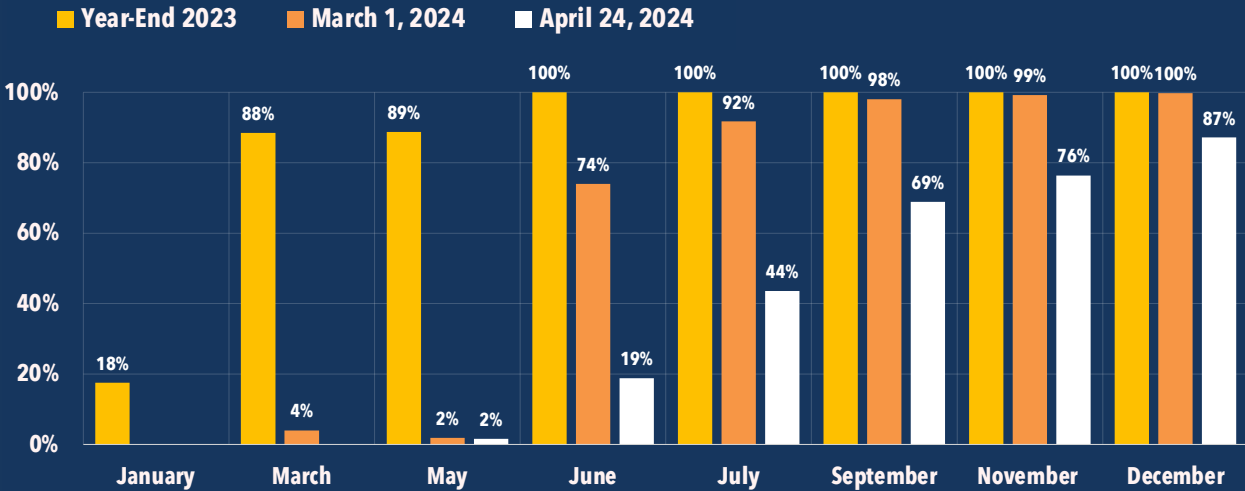
Measured as Cumulative Percentage Point Increase of the Effective Federal Funds Rate



Source: Federal Reserve, Board of Governors; Through February 2024

Timing the Fed's Shift in Monetary Policy

% Probability of At Least One Rate Cuts by Meeting Date, Measured using CME Group FedWatch Tool

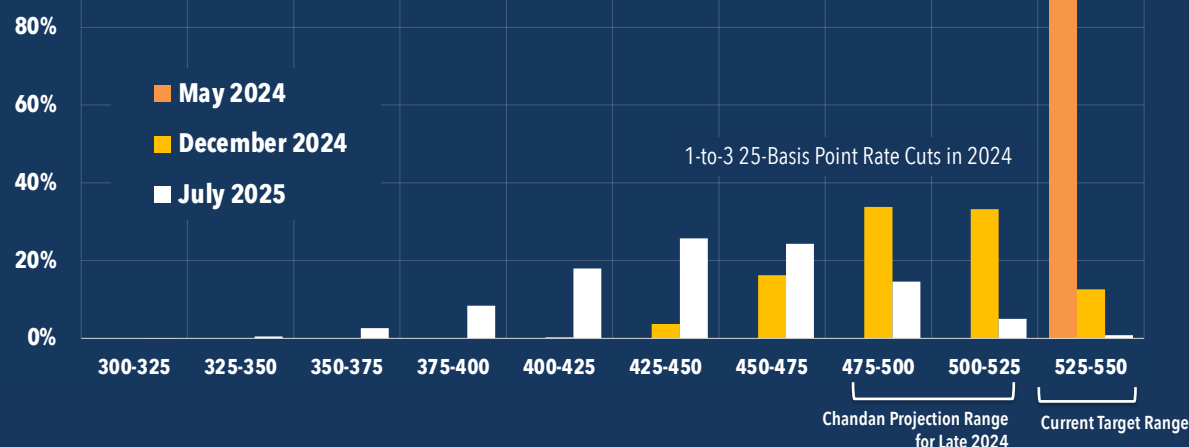


Source: CME Group; As of April 24, 2024

Monetary Policy Outlook

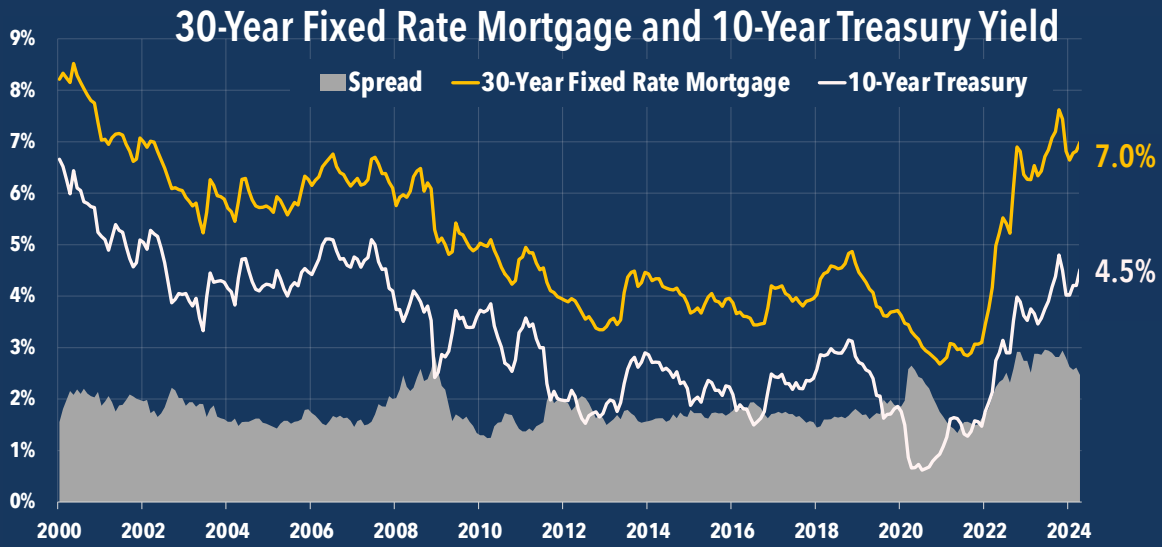
Fed Target Rate Probabilities by Meeting Date

Measured using CME Group FedWatch Tool, Probabilities as of April 24, 2024



Source: CME Group; As of April 24, 2024

Elevated Long-Term Interest Rates



The Economist

How to build Ukraine 2.0

Is China's economy turning Japanese?

AI: bigger is not always better

Study-drugs don't work

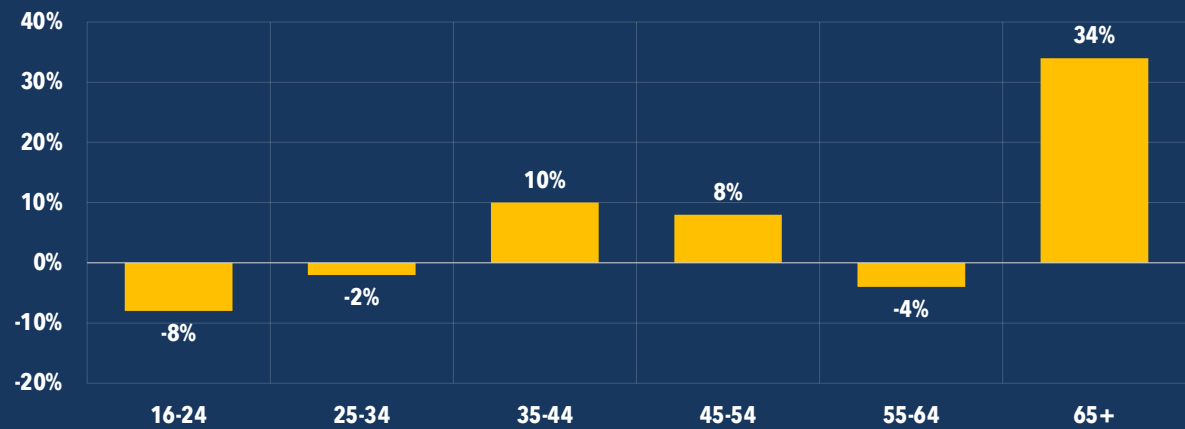
JUNE 24TH - 30TH 2023



**THE TROUBLE
WITH STICKY
INFLATION**

Demographics Complicate the Inflation Roadmap

BLS Projected Labor Force Growth by Age Group
2022-2032



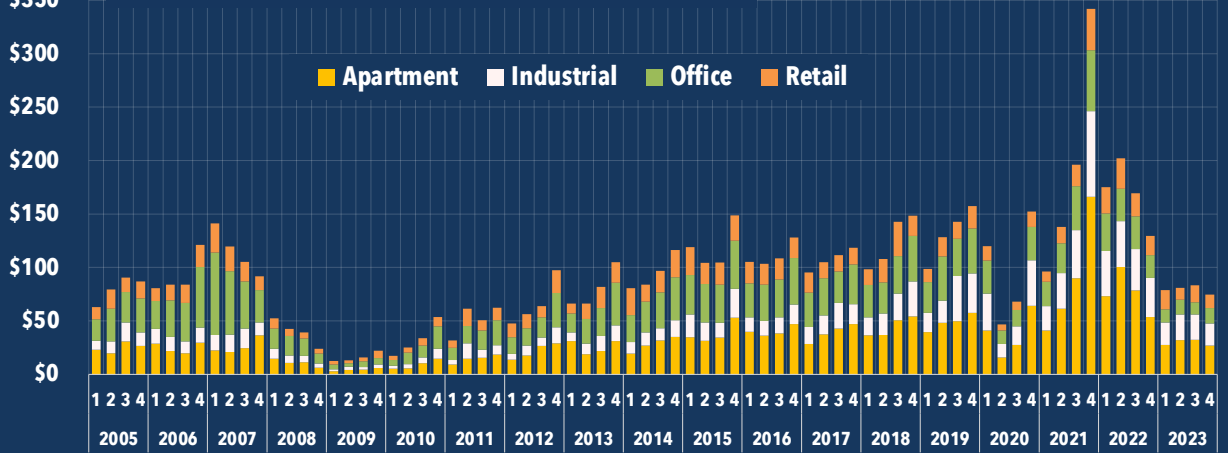
Source: Bureau of Labor Statistics; As of 2022



Interest Rates Sidelining Buyers and Sellers

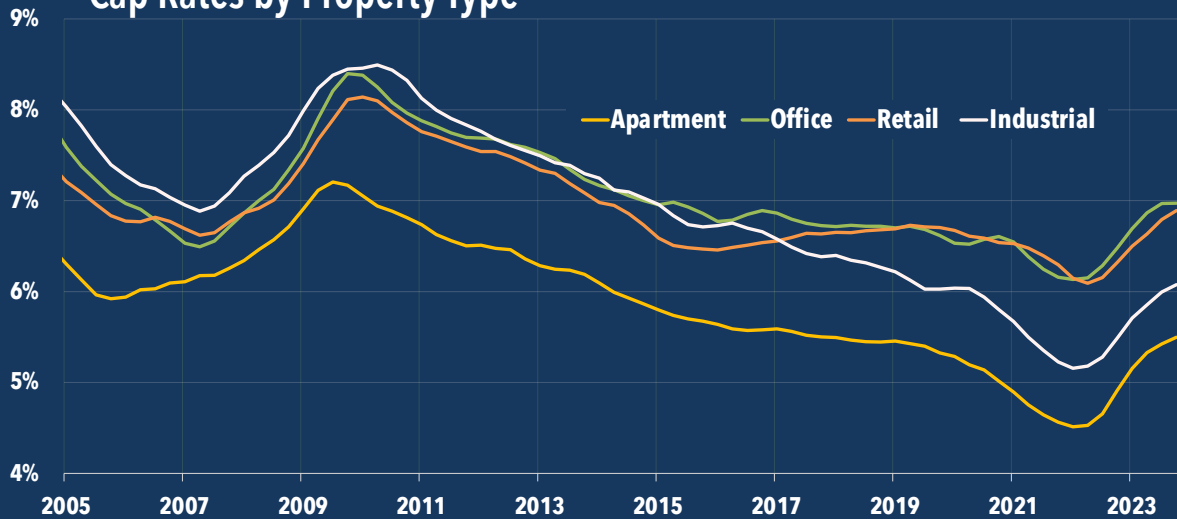
Transaction Volume by Property Type

Measured in Billions \$

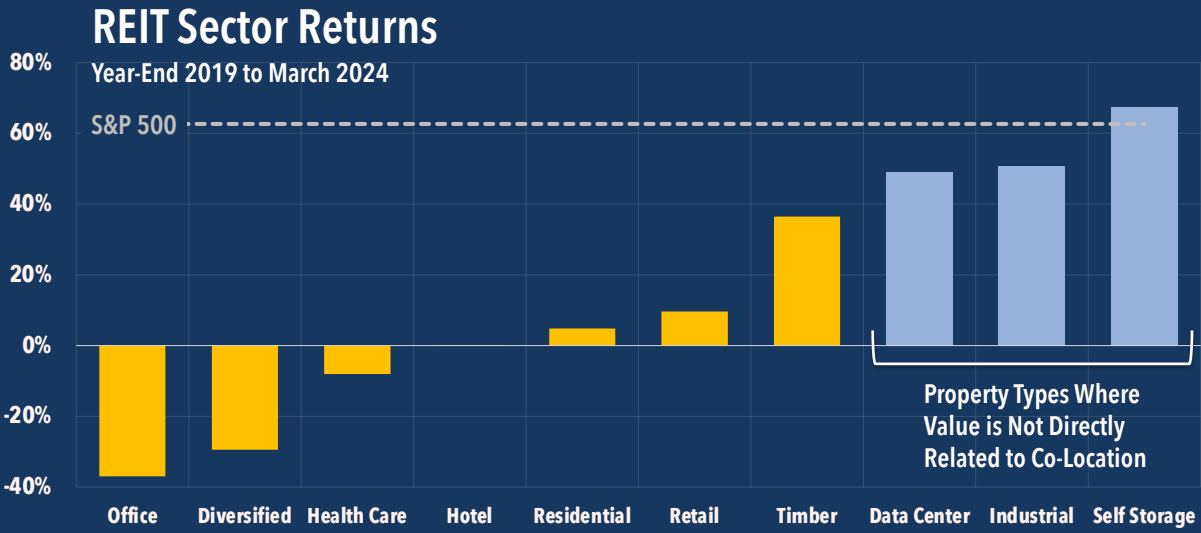


Cap Rates Rising Across All Property Types

Cap Rates by Property Type

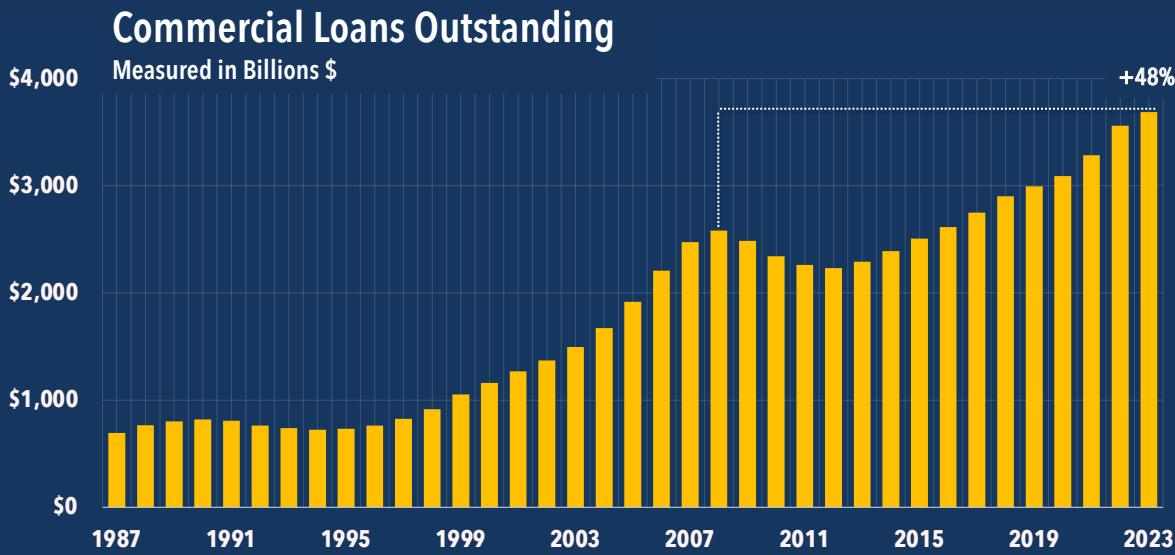


Dependency on Co-Location Impacting Valuations



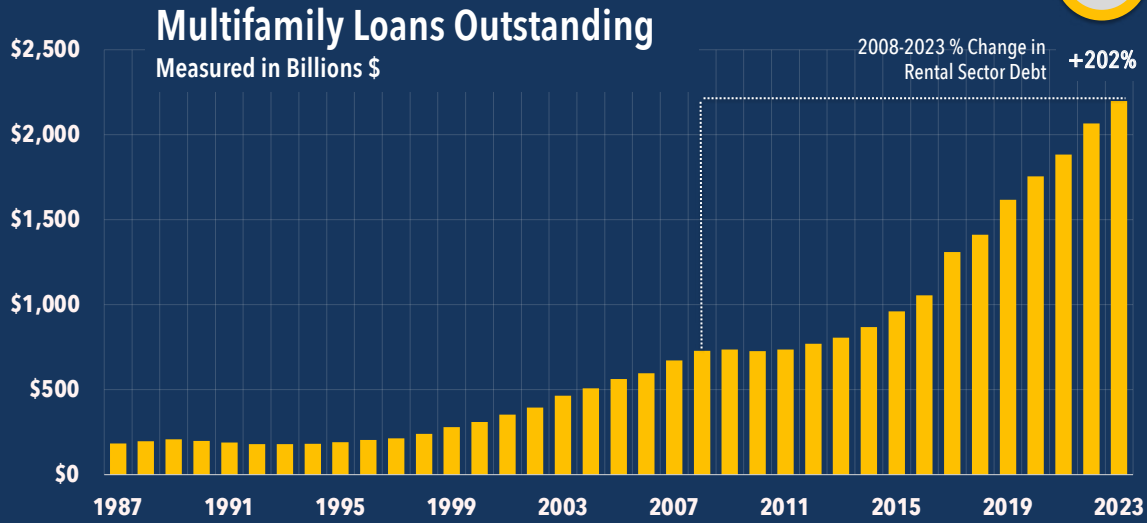
Source: NAREIT, Chardan; March 2024

Commercial Real Estate Exposure



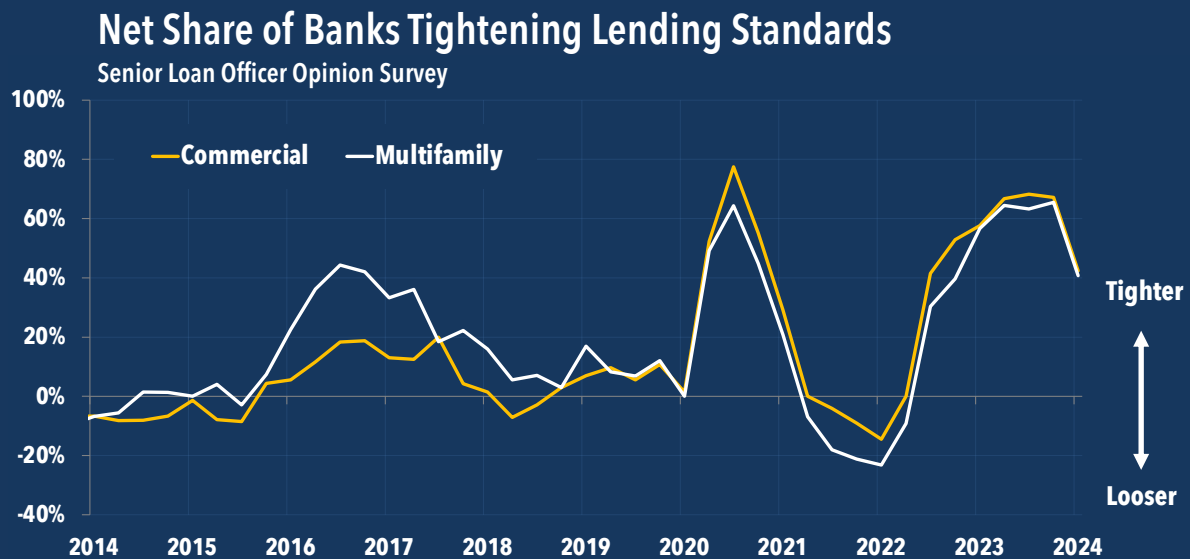
Source: Federal Reserve; Through Q4 2023

Commercial Real Estate Exposure



Source: Federal Reserve; Through Q4 2023

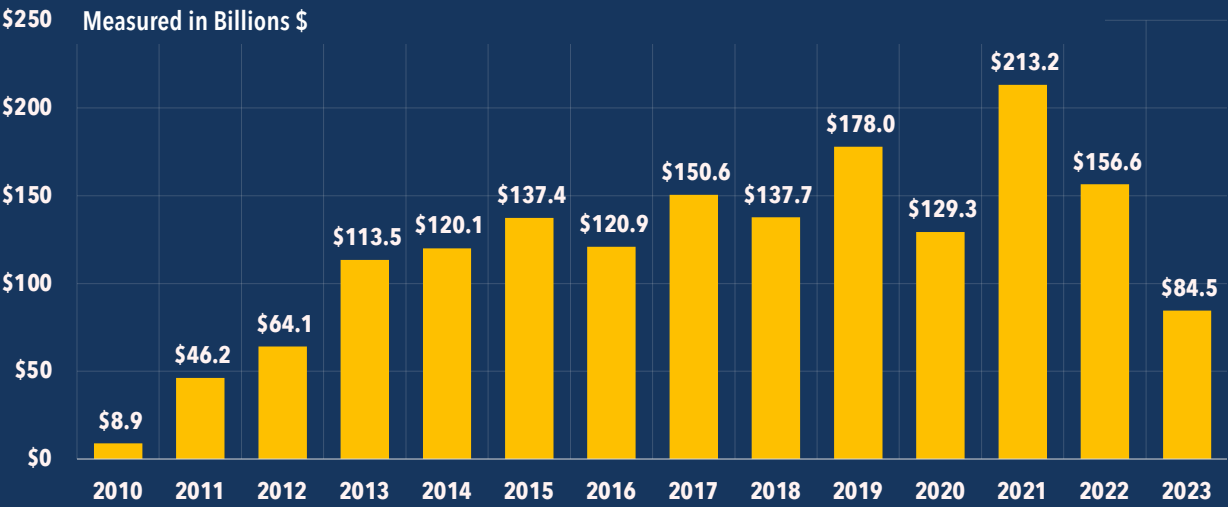
Lenders are Pulling Back the Reins



Source: SLOOS, Federal Reserve; As of Q1 2024

CMBS Market Presses Pause

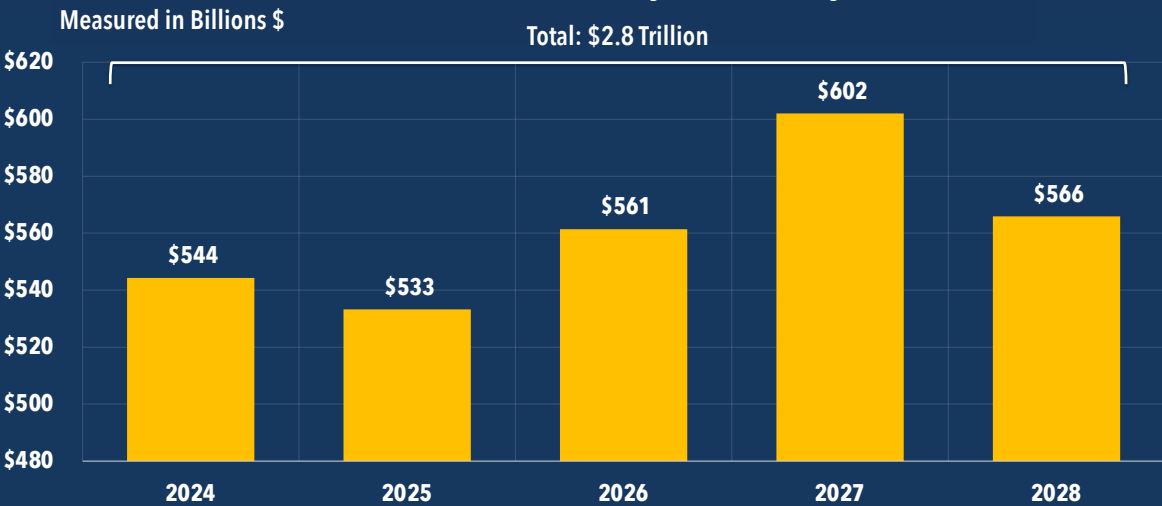
Annual CMBS Issuance



Source: Finsight; Through 2023

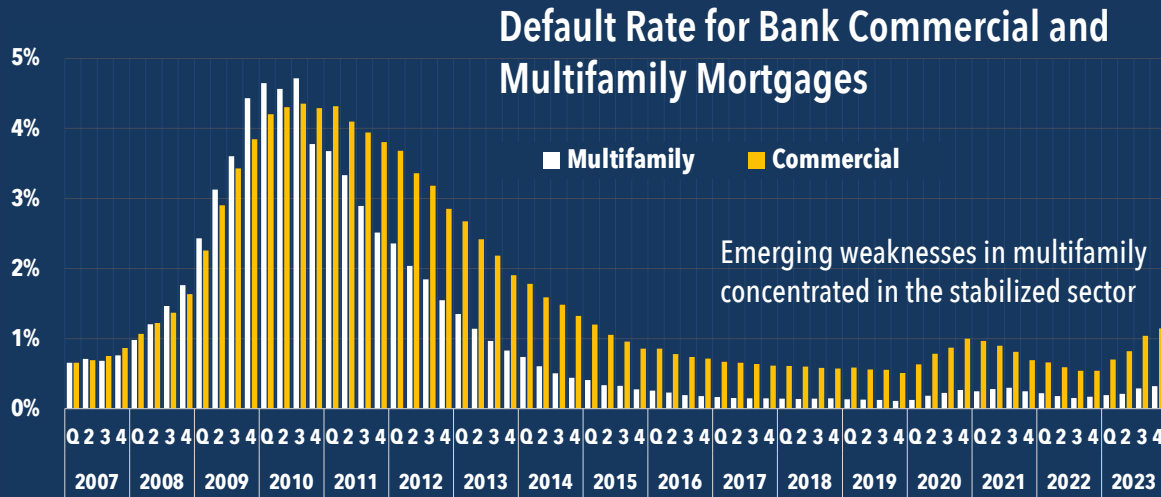
Wall of Maturities on the Horizon

Commercial Real Estate Debt Maturity Volume by Year



Source: Trepp; Analysis as of December 2023

Early Days for Mortgage Performance Strains



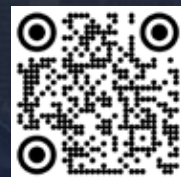
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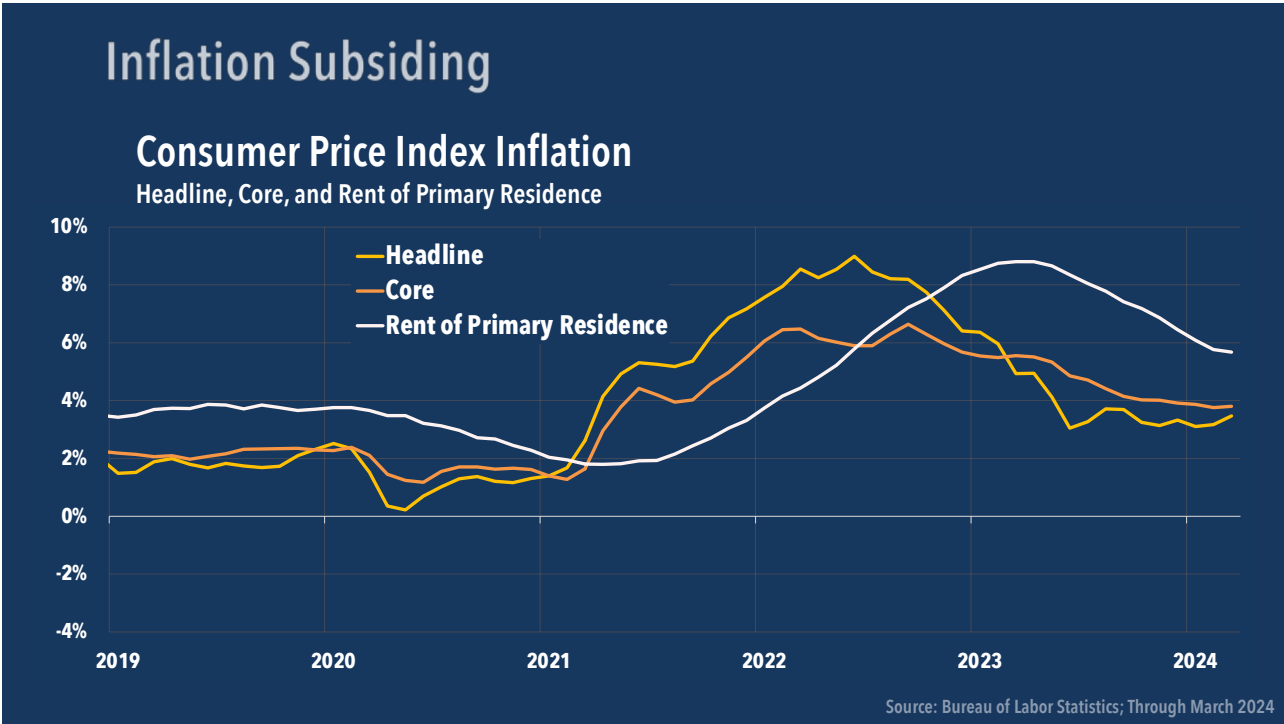
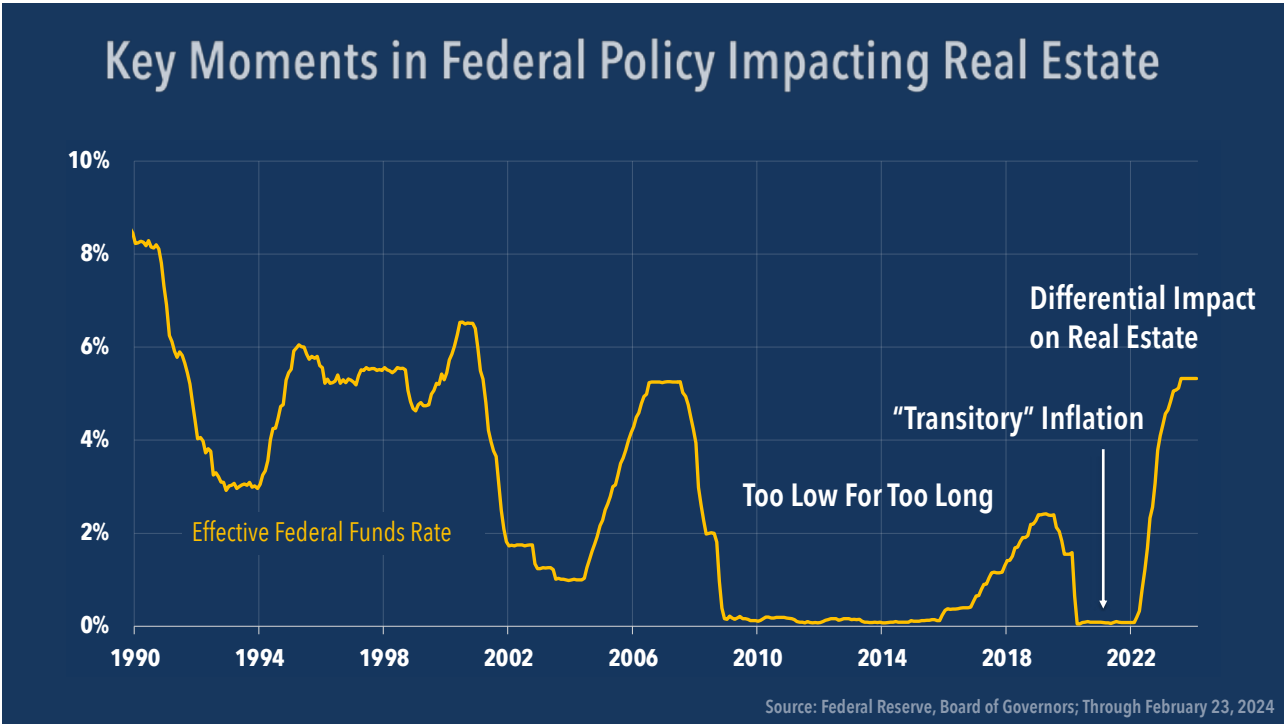
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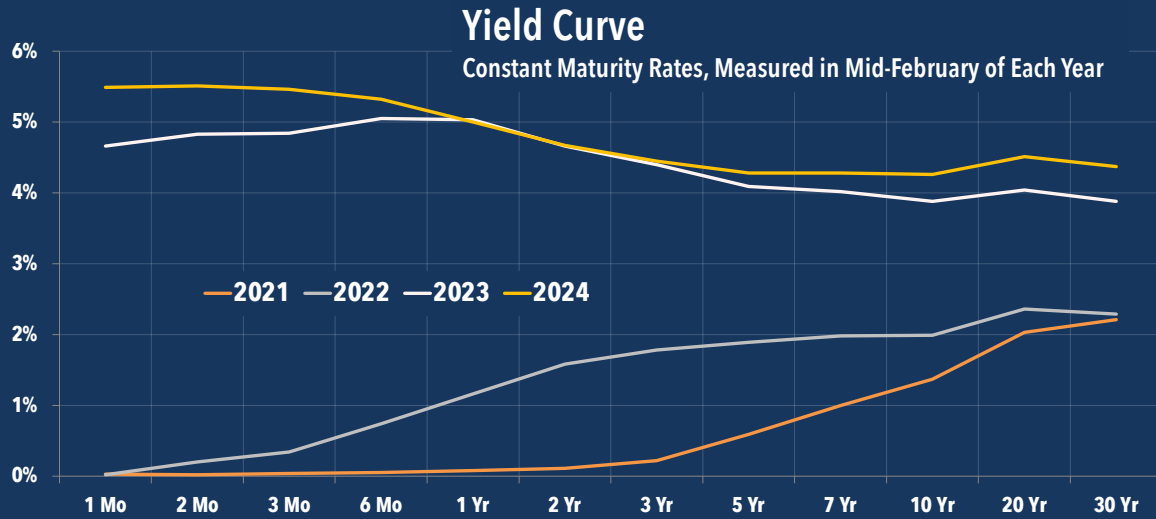
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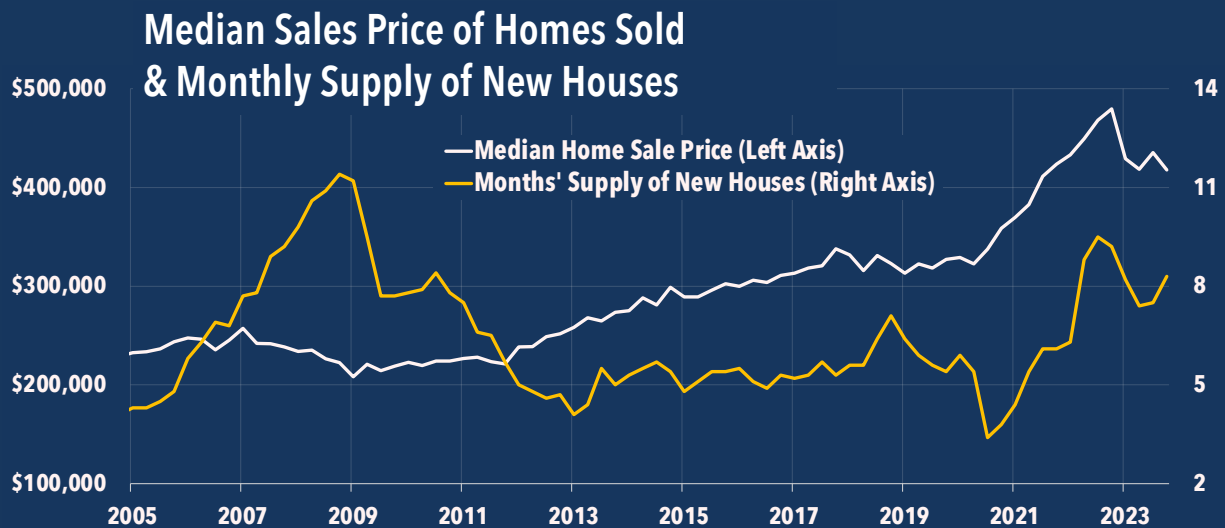


Yield Curve Remains Inverted



Source: Federal Reserve Board of Governors; Through February 23, 2024

Historic Unaffordability in Housing

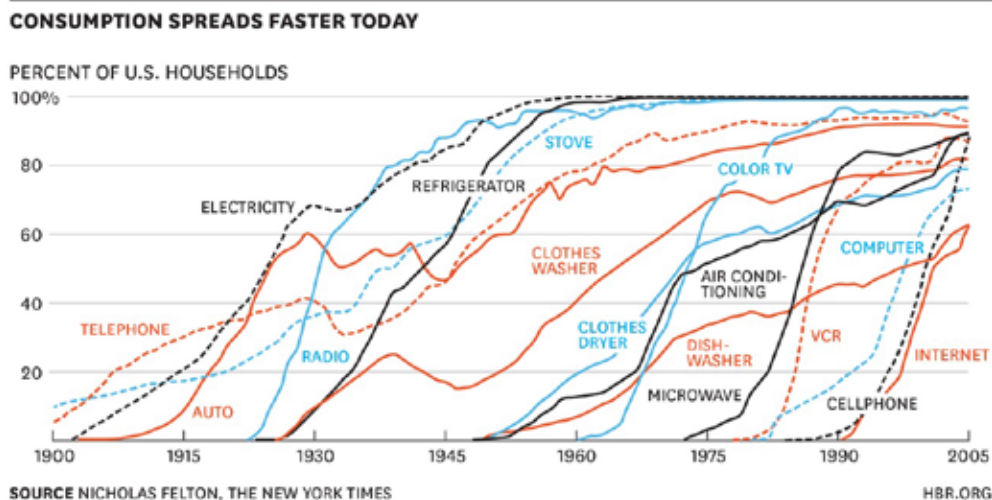


Source: Census Bureau; Through Q4 2023

Criteria for a World-Changing Innovation

- Will AI be a General Purpose Technology with the potential to reshape the economy, real estate, and the human condition
- Does it meet three conditions:
 - Broadly deployed across the economy
 - Steadily improving over time
 - Enhancing to labor productivity

Faster Adoption Than You Might Want



Faculty

Dr. Sam Chandan is the founding director of the C. H. Chen Institute for Global Real Estate Finance at the NYU Stern School of Business in New York, where he leads the Institute's industry and policy engagement activities, research initiatives, and MBA and undergraduate real estate programs, ranked #2 and #3 respectively among business schools by *US News and World Report*. The Chen Institute was established in September 2022 and is supported by the largest-ever gift for an institute or center at Stern. In addition to the NYU Center for Real Estate Finance, it houses the school's centers and initiatives in climate change, public health and the built environment; property technology; real estate data science and artificial intelligence; and real estate in emerging economies. Prior to joining the faculty of Stern's Finance Department in January 2022, Dr. Chandan was the Silverstein Chair and academic dean of the Schack Institute of Real Estate at the NYU School of Professional Studies, one of the world's largest centers of real estate continuing education. He is also founder and non-executive chairman of Chandan Economics, an economic advisory and data science firm serving the institutional real estate industry; independent advisor to TruAmerica, one of the nation's leading multifamily developers, owners and operators with over \$16.0 billion in assets under management; and a contributor to *Forbes*. Among his diversity and inclusion initiatives, Dr. Chandan is global chair of the Real Estate Pride Council, an association of lesbian, gay, bisexual and transgender leaders in the professions of the built environment, and a member of the Real Estate Executive Council (REEC). In 2017, he founded the National Symposium of Women in Real Estate (WIRE), which has since grown into one of the industry's largest annual mentorship forums connecting senior executives and early-career women in real estate. A Fellow of the Royal Society of Medicine, Royal Society for Public Health (FRSPH), Royal Institution of Chartered Surveyors (FRICS) and Real Estate Research Institute (RERI), and a contributing member of the American Society for Microbiology (ASM), Dr. Chandan's multifaceted research interests address real estate capital markets, housing finance and affordability, innovation in financial technology and its application to real estate, urban epidemiology, and the preparedness of global cities and other systemically important urban areas in managing and mitigating novel public health threats. His commentary on commercial and residential real estate markets and the broader economy has been featured regularly in national and global press, including the *Wall Street Journal*, the *Financial Times*, CNBC and Bloomberg. Among his recent publications, he was the lead investigator for Regulatory Design and Real Outcomes, a study on the regulation of commercial real estate lending commissioned by the Commercial Real Estate Finance Council (CREFC). He holds an honorary appointment as the Economist Laureate of the Real Estate Lenders Association and has served on the real estate advisory council of the Federal Reserve Bank of Atlanta. Dr. Chandan received his B.Sc. in economics from The Wharton School of the University of Pennsylvania, his Master's degrees in epidemiology from Yale University and in economics and engineering from the University of Pennsylvania, and his Ph.D. in applied economics from the Wharton School. A Doctoral Scholar in the Economics Department at Princeton University, he previously served on the faculties of the Wharton School and the Economics Department at Dartmouth College.