



Bubblicious

Q3, 2025

- U.S. large-cap stocks rose 8% in the third quarter while small caps gained 12%, reaching their highest levels since November 2021. U.S. intermediate-term bonds ended the quarter up 2%.
- Since ChatGPT's launch, mega-cap tech companies have more than doubled their AI-related capital expenditures, and hyperscalers are expected to spend \$340 billion on AI in 2025.
- On September 17, with inflation floating above its official 2% target, the Federal Reserve cut interest rates by 0.25%, citing labor market concerns and a slowdown in economic activity.
- The Fed's dual mandate—to balance price stability with maximum employment—now seems suspended somewhere between caution, cutting rates at the first sign of labor softening, and complacency, easing policy while inflation remains above target.
- The Fed's decisions come while the market appears increasingly bubblicious, with exciting developments in AI, among other areas, but growing signs of excess.

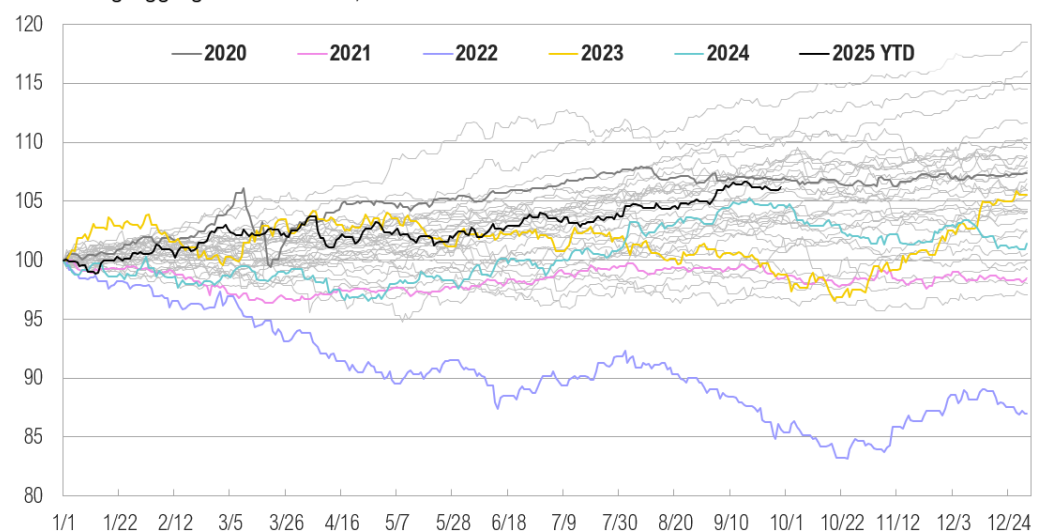
Overview

Markets performed well over the third quarter. Every major asset class ended September in positive territory year to date. U.S. small-cap stocks led the way (gaining 12%), pushing the Russell 2000 small-cap index into positive territory for the first time this year and to its highest level since November 2021. U.S. large-cap stocks, as proxied by the S&P 500, brought the index's third-quarter gains to 8% and its year-to-date gains to 15%, also hitting a new record high. U.S. intermediate-term bonds gained 2% in the third quarter and are up 6% year-to-date, with the Bloomberg U.S. Aggregate Bond Index seeing its strongest returns since 2020.

U.S. small-cap stocks outperformed, gaining 12% over the third quarter

U.S. Intermediate-Term Bonds Have Fared Better Relative to Recent Years

Bloomberg Aggregate Bond Index, Growth of 100



Source: Bloomberg

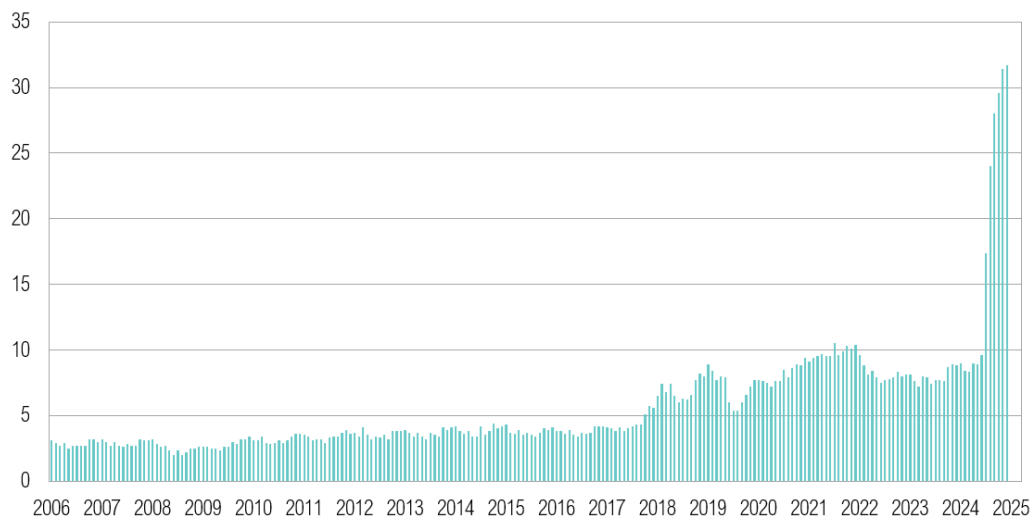
U.S. intermediate-term bonds are on track for the strongest returns since 2020

By the end of August, the 2025 fiscal deficit reached \$1.97 trillion, the largest on record outside a crisis or pandemic

At the start of the quarter, the One Big Beautiful Bill Act (OBBBA) was signed into law. The OBBBA makes many of the provisions from the 2017 Tax Cuts and Jobs Act permanent while introducing new tax deductions, changing energy incentives, and reforming major social programs and benefit rules.¹ The Congressional Budget Office estimates the bill will add \$3.3 trillion to the federal deficit over the next decade.² Reducing the fiscal debt burden initially appeared to be a key goal of the Trump administration, which asserted that the profits from “Liberation Day” tariffs would offset some of the deficit increase. Year to date, the U.S. government has collected \$190 billion in tariff revenue.³ For context, tariff revenue in the first nine months of 2024 amounted to \$73 billion. However, through the end of August, the 2025 fiscal deficit grew to \$1.97 trillion, the largest non-crisis or non-pandemic deficit on record.⁴

Year-to-Date, Tariff Revenues Have Risen to \$190 Billion

U.S. Treasury Deposits: Customs & Certain Excise Taxes, Monthly \$Bn



Source: Bloomberg

Consumer spending bolstered second quarter GDP growth

According to final second-quarter gross domestic product (GDP) estimates, annualized quarter-over-quarter growth rebounded from -0.6% in the first quarter to 3.8% in the second quarter.⁵ Strong consumer spending was the primary driver, contributing 2.5% to overall GDP, and personal spending rose 0.6% month-over-month in August, the highest level since March.^{5,6} Retail sales also maintained positive momentum, rising 0.6% month-over-month in August, remaining above its 10-year average of 0.4%.⁷ Looking ahead, the Atlanta Fed’s GDPNow model currently estimates third-quarter GDP to grow at a 3.8% rate, annualized quarter-over-quarter.⁸

Revised payroll data shows softening in the labor market

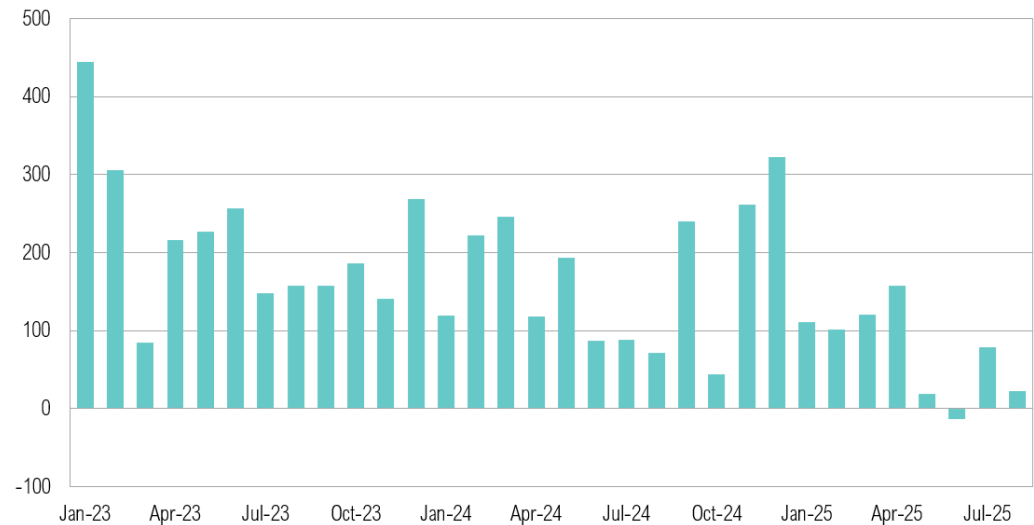
Payroll data was revised considerably during the third quarter. According to the July employment report, non-farm payrolls rose by only 73,000 jobs, missing expectations by 32,000.⁹ In addition, May and June payrolls were revised down by a combined 258,000, the largest downward revisions for these months outside of the pandemic.¹⁰ The August report was weaker still, showing only 22,000 new jobs created. It also included a further downward revision to June, now showing payrolls declining by 13,000, the first monthly drop in employment since 2020.¹⁰ The unemployment rate ticked up to 4.3% in August, the highest level since September 2017 outside of the pandemic period.

The labor market appears to be in a 'low-firing, low-hiring' equilibrium

On September 9, the Bureau of Labor Statistics released its annual benchmark revisions, showing a net downward adjustment of 911,000 jobs for the twelve months ending March 2025, the largest on record. While some of this may reflect weakening survey response rates (which have fallen from 64% in 2015 to 43% in 2025), the broader trend suggests the labor market is cooling.¹¹ The August Job Openings and Labor Turnover Survey (JOLTS) showed little movement in job openings, hires, or layoffs (7.2 million, 5.1 million, and 1.7 million, respectively), indicating that activity may have entered what Federal Reserve Chairman Jerome Powell described as a “low-firing, low-hiring” equilibrium.^{12,13}

The Past Quarter Saw Notable Downward Revisions to Payroll Data

Monthly Change in Nonfarm Payrolls, Thousands



Source: Bloomberg. As of 8/31/2025.

June payrolls declined by 13,000, marking the first monthly job loss since 2020

On September 17, the Federal Reserve lowered interest rates by 0.25%, citing labor market concerns and slowing economic activity—focusing especially on the recent revisions to labor market data. During the Federal Open Market Committee (FOMC) press conference, Fed Chair Jerome Powell said:

“We were looking at 150,000 jobs a month at the time of the last meeting, and now we see the revisions and the new numbers... I don’t want to put too much emphasis on payroll job creation, but it’s just one of the things that suggests that the labor market is really cooling off. And that tells you that it’s time to take that into account in our policy.”¹³

On September 17, the Fed cut rates, even with inflation above 2%

The rate cut marked a delicate turning point. With inflation still floating above the Fed’s 2% target and growth holding steady, policymakers now face a familiar tension between supporting employment and restraining price pressures. Economic projections released alongside the September rate decision indicate the Fed expects to lower rates by 0.5% before year end, implying one cut at each of the remaining 2025 FOMC meetings.¹⁴

Bubblicious

What’s in a bubble? Air, mostly (nothing of tangible substance). This allows the bubble to float unpredictably until it inevitably pops. In the case of a financial bubble, asset prices rise far above their fundamental value, typically fueled by speculation and widespread participation from retail and institutional investors. History is filled with examples.

In the late 1990s, investors poured money into tech startups that generated little revenue but promised blockbuster results

Railway mania, a 19th-century bubble, illustrates how technological revolution breeds speculative excess. In the 1840s, railways were the cutting-edge technology of the Industrial Revolution, promising faster travel, lower transportation costs, and rapid economic growth. Hundreds of railways and thousands of miles of lines were approved, but many were speculative or poorly planned, built in places where little commerce existed. Capital called in by borrowers soon exceeded what investors could repay. Consequently, credit tightened, demand collapsed, and by 1847, the bubble burst.¹⁵ Nevertheless, it left behind hundreds of miles of railway lines still in use today.

Driven by excitement over the internet's potential, investors in the late 1990s poured money into tech startups that generated little revenue but alluringly promised blockbuster results.¹⁶ Equity prices, and valuations, peaked in early 2000 before collapsing. It is easy to forget how bubbly things got. For example, in May 1999, eToys, an online toy retailer, went public. Its stock soared 280%—to an \$8 billion valuation—on its first day of trading, even though the company's quarterly revenue was just \$30 million and its losses were mounting. The company burned through cash as it attempted to compete with Amazon and Toys “R” Us, and it went bankrupt in February 2001 after demand collapsed and funding dried up.¹⁷ CMGI, an internet investment company, backed dozens of startups. Between 1998 and early 2000, its share price skyrocketed more than 1,000%, briefly valuing the company above \$50 billion, despite its limited operating income. When the tech tide turned, CMGI's portfolio imploded, and its stock fell more than 99%.¹⁸ Global Crossing was a telecom infrastructure company founded in 1997 that built undersea fiber-optic cables to power the “information superhighway.” Backed by cheap credit and investor euphoria about future internet traffic, its valuation soared past \$40 billion by 2000—even though it had never posted a profit.¹⁹ Burdened with debt and over-expansion, Global Crossing filed for bankruptcy in 2002.

Notwithstanding the excesses, the dot-com bubble left behind revolutionary technologies, like the internet itself. In the lead up to 2008, cheap credit, lax lending standards, and mortgage securitization drove U.S. home prices to dizzying heights. When borrowers defaulted and mortgage-backed securities unraveled, the bubble burst and triggered the Global Financial Crisis.

Debate is growing over whether the excitement surrounding AI is creating a new bubble

Today, debate is growing over whether the excitement surrounding artificial intelligence (AI) is creating a new bubble. Google search trends for “AI bubble” peaked in mid-August before dropping sharply.²⁰ Similarly, Bloomberg's News Trends (which tracks all stories and sources published across the Bloomberg terminal) showed bubble concerns peaking shortly after Chinese tech startup DeepSeek launched its AI model in January.²¹ But per Deutsche Bank Research Institute's executive director Adrian Cox:

“While there may be a bubble, the moment everyone spots it may be the moment it is least likely to burst.”²²

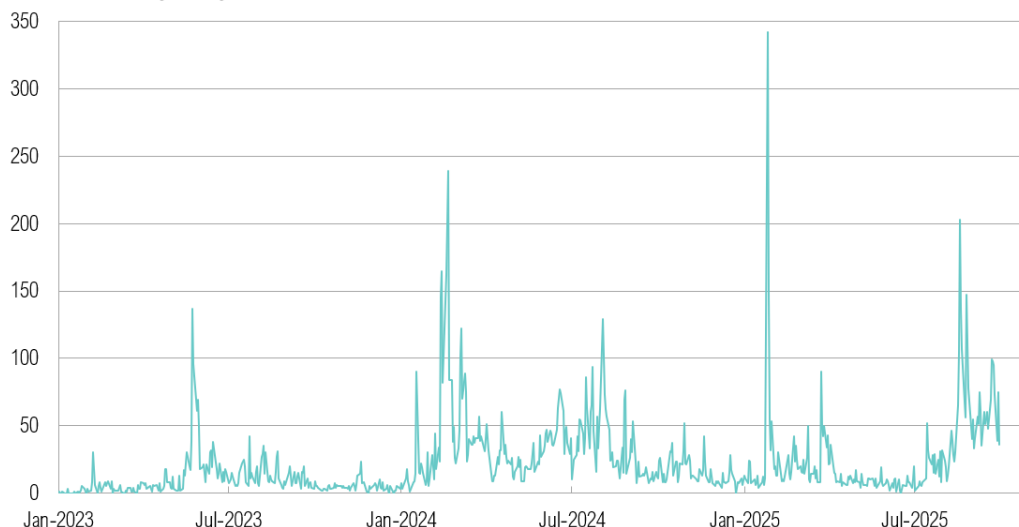
At the same time, Sam Altman, CEO of OpenAI (creator of ChatGPT), said recently:

“Are we in a phase where investors as a whole are overexcited about AI? My opinion is yes. Is AI the most important thing to happen in a very long time? My opinion is also yes.”²³

Bubble concerns peaking shortly after Chinese tech startup DeepSeek launched its AI model in January

AI Bubble Concerns Peaked in January, and Spiked Again Late-August

'AI Bubble' Daily Story Count



Source: Bloomberg News Trends

The top ten S&P 500 holdings now make up a record 39% of the index

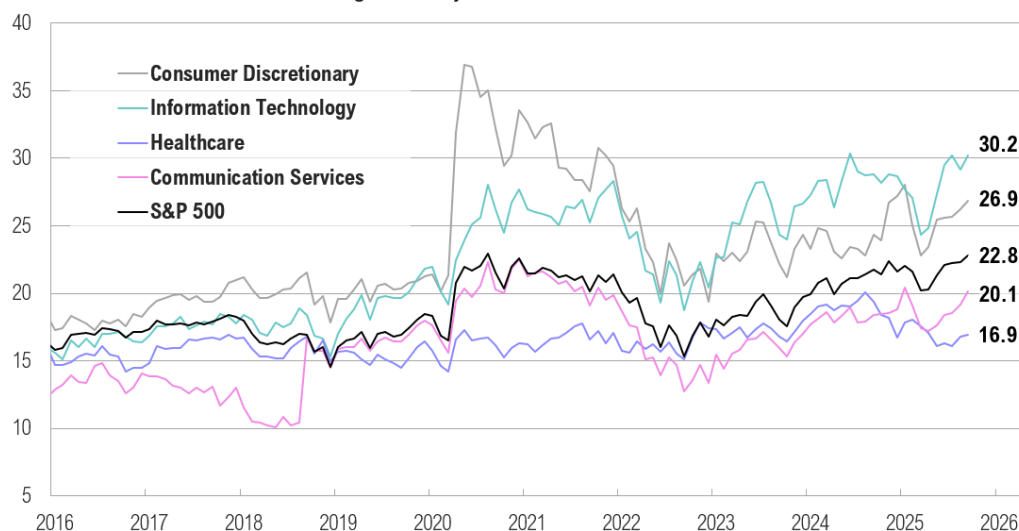
The information technology sector led performance in the S&P 500, gaining 13% in the third quarter. The Magnificent Seven (Apple, Alphabet, Amazon, Meta, Microsoft, Nvidia, and Tesla) rose 19% over the third quarter and are up 20% for the year.²⁴ These companies remain the key drivers behind overall market performance: the top ten S&P 500 holdings now make up a record 39% of the index, far surpassing the 1999 peak of 25% and the post-pandemic high of 30%.

Elevated valuations have not slowed the market's recent strong performance. The tech sector's 12-month forward price-to-earnings (P/E) ratio is 30x while its price-to-sales ratio stands at 10x—over 40% higher than at the tech bubble peak. Broader market valuations are also stretched: the S&P 500's 12-month forward P/E ended September at 23x. (For context, the dot-com peak was 24x.)

Elevated valuations have not slowed the market's recent strong performance

Tech Sector Valuations are Elevated Relative to History, and the Broader Market

12-Month Forward Price-to-Earnings Ratio by Select S&P 500 Sector



Source: Bloomberg

Earnings and revenue growth estimates for the tech sector remain robust

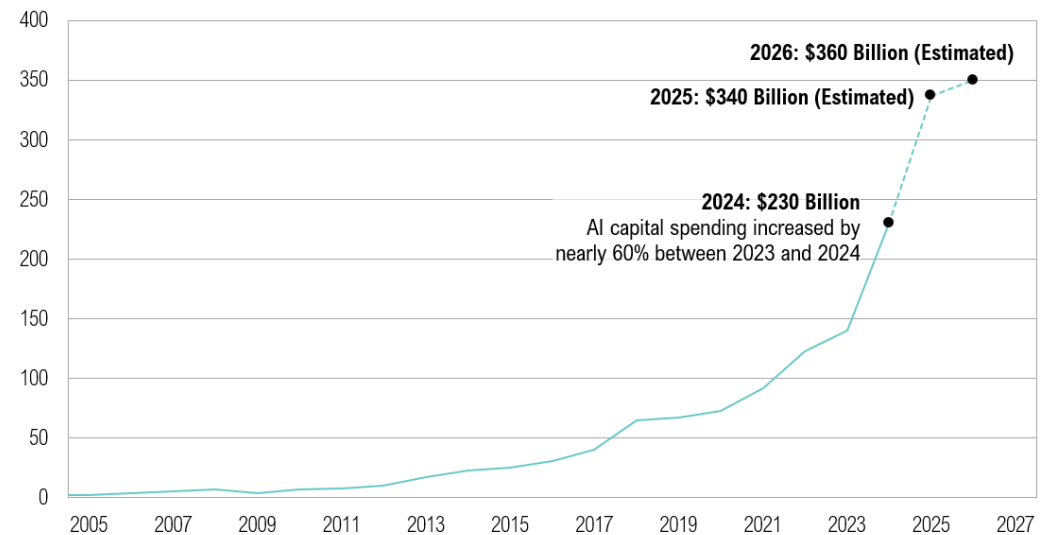
Looking ahead, the tech sector remains a key driver of S&P 500 earnings growth estimates. For 2025, tech earnings are expected to grow by 21% year-over-year and 21% in 2026.²⁵ Revenue growth estimates for the sector remain robust. According to FactSet, tech sector revenues are expected to rise by 14% year-over-year in 2025 and 13% in 2026. The broader S&P 500 is expected to see earnings growth of 11% in 2025, and 14% in 2026.²⁵

Advanced AI models are expensive to build and run, and they require specialized chips, energy-hungry data centers, and large engineering teams. Many AI applications remain experimental, and their paths to profitability are still uncertain. Capital expenditures (capex) have been a defining theme for AI hyperscalers (the largest cloud and infrastructure providers that build, train, and deploy AI models) this year. Since the launch of OpenAI's ChatGPT large language model in November 2022, mega-cap tech firms have more than doubled annual capex, pouring hundreds of billions of dollars into data centers and other AI-related infrastructure.^{26,27}

Capital expenditures have been a defining theme for AI hyperscalers in 2025

Mega-Cap Tech Firms Have Spent Hundreds of Billions on AI Infrastructure

U.S. AI Hyperscaler Capital Spend, \$Bn



Source: Visual Capitalist. Hyperscaler Capital Spend for Amazon, Alphabet, Meta, Microsoft, and Oracle.

Morgan Stanley expects \$3 trillion in AI infrastructure investment by 2029

Data centers are now viewed as AI's foundational utility and key to the advancement and development of AI models, much like railways or telecom networks from earlier eras. Hyperscalers (specifically Meta, Amazon, Alphabet, Microsoft, and Oracle) will reportedly spend about \$340 billion on data center and AI infrastructure in 2025.^{26,27} This equates to nearly 1% of U.S. GDP. Morgan Stanley expects \$3 trillion in AI infrastructure investment by 2029.²⁷ Meta CEO Mark Zuckerberg highlighted the readiness of mega-cap tech firms to keep investing in AI during an interview, commenting on AI superintelligence spending:

*"If we end up misspending a couple hundred billion dollars, that's going to be very unfortunate, obviously. But I would say the risk is higher on the other side."*²⁸

In the same interview, he also noted:

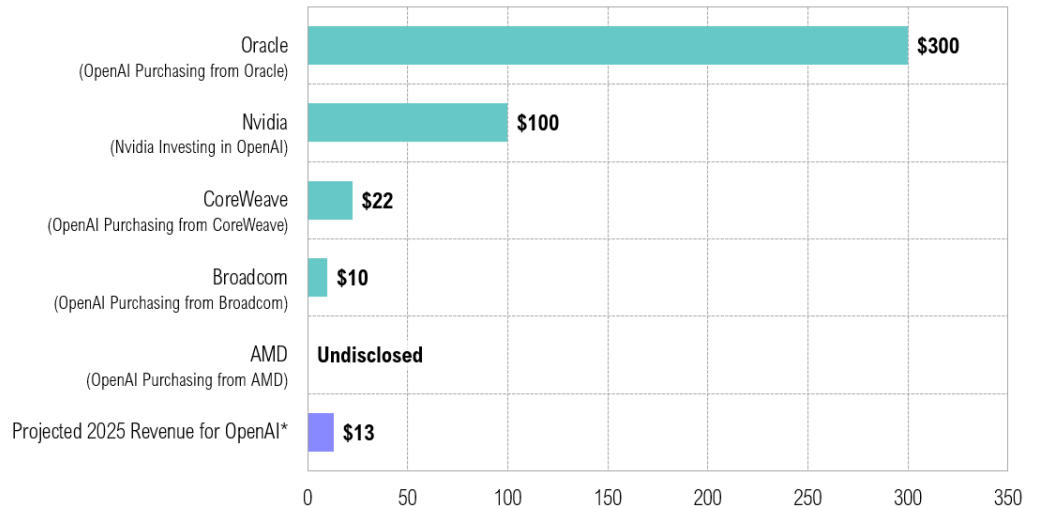
*"There's definitely a possibility, at least empirically, based on past large infrastructure buildouts and how they led to bubbles, that something like that would happen here."*²⁸

The boom is not limited to public markets. OpenAI, the creator of ChatGPT and one of the world's top AI labs was recently valued at \$500 billion, topping SpaceX as the largest U.S. private company.²⁹ OpenAI has been signing deals valued at hundreds of billions of dollars with major infrastructure partners. On September 22, Nvidia announced a strategic partnership with OpenAI to deploy at least ten gigawatts of Nvidia AI systems across OpenAI's data centers, backed by a \$100 billion investment largely earmarked for more Nvidia chips.³⁰ Nvidia noted that:

*"OpenAI will channel part of this investment back into Nvidia hardware purchases, effectively creating a cycle of funding and chip demand."*³⁰

OpenAI Has Been Making Deals Worth Billions with Key Infrastructure Partners

OpenAI Infrastructure Deals in 2025, \$Bn



Source: CNBC, Reuters, Nvidia, Oracle, OpenAI, MD. *Estimates range between \$12.7 billion and \$20 billion.

OpenAI maintains that its rapid dealmaking and scaling are central to driving future AI breakthroughs

Skepticism is growing about OpenAI's reliance on a tightly interconnected web of partners

OpenAI maintains that its rapid dealmaking and scaling are central to driving future AI breakthroughs. Yet skepticism is mounting, not just over the sheer size of the deals, but over OpenAI's reliance on a tightly interconnected web of infrastructure partners. Nvidia's investment, for instance, gives the company an equity stake in OpenAI while simultaneously generating revenue for Nvidia. Such arrangements raise investors' concerns about whether the momentum is sustainable. In early October, OpenAI also announced a "strategic partnership" with AI chip manufacturer AMD, one of Nvidia's largest competitors.³¹ OpenAI is set to deploy six gigawatts of AMD's specialized chips over multiple years and is likely to also take a 10% equity stake in AMD.^{31,32}

A similar vendor-financing feedback loop occurred late in the dot-com boom

A similar vendor-financing feedback loop occurred late in the dot-com boom. For example, Cisco extended massive loans and leases to telecom startups and other companies, many of them in precarious financial positions. This vendor financing let those firms buy Cisco networking equipment, and Cisco recorded the transactions as sales—even before the financed customers began repaying.^{33,34} The result was a circular flow of funds: Cisco provided credit, which translated into equipment sales and fueled revenue growth despite the underlying credit risk. When many of these startups collapsed, the feedback loop unraveled, exposing the vulnerabilities in Cisco's model and generating significant losses for the company.^{33,34}

Markets

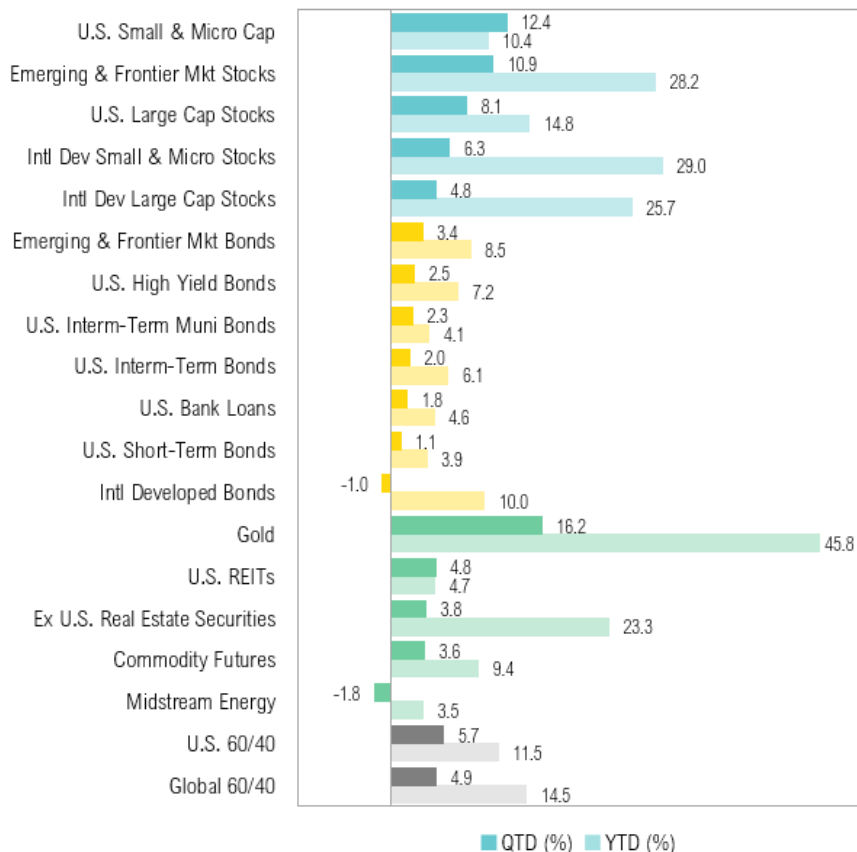
In both U.S. and international markets, small-cap equities outperformed their large-cap counterparts over the quarter. U.S. small caps rose 12%, compared with an 8% gain for U.S. large-cap stocks. Similarly, international developed market small-cap stocks advanced 6%, outpacing large caps, which gained 5%. Emerging and frontier markets finished the third quarter up 11%. Strong small-cap performance propelled the Russell 2000 into positive territory for the first time this year, and the index ended the quarter up 10.4% year-to-date.

Credit spreads remained tight relative to historical averages

U.S. intermediate-term bonds gained 2% during the quarter. The 10-year U.S. Treasury yield fell to 4.0% in mid-September (the lowest level since April) following the release of the August inflation report and an unusual spike in jobless claims driven by flooding in Texas and seasonal data adjustments around the holiday-shortened week. By the end of September, the 10-year yield had risen slightly to 4.2%. The spread between the 10-year and 2-year Treasury yields remained positive throughout the quarter, finishing at 0.6%. Credit spreads remained tight relative to historical averages, closing the quarter at 2.7%.

Strong small-cap performance propelled the Russell 2000 into positive territory for the first time this year

Q3 2025 Key Market Total Returns



Source: Bloomberg

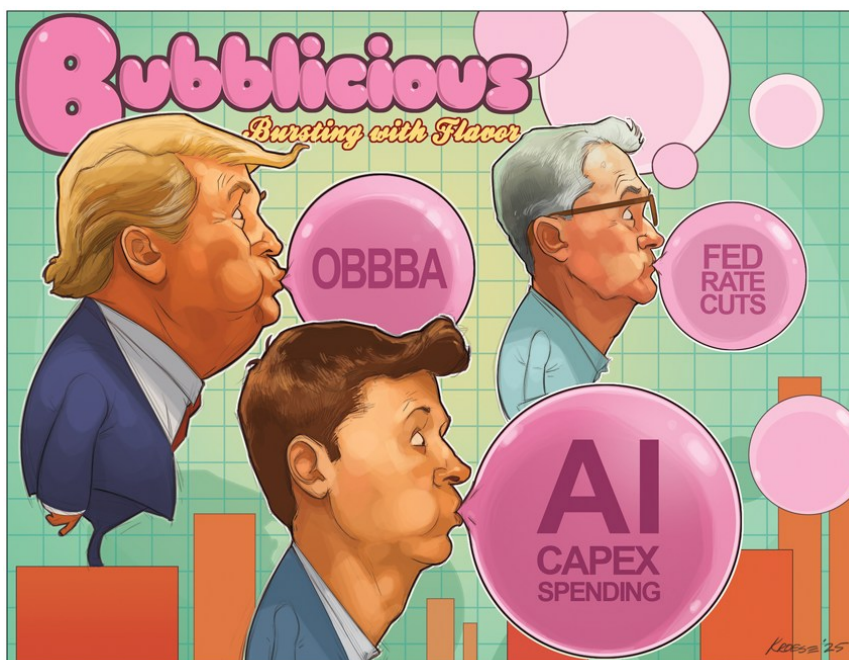
Gold, which rose 16% over the quarter, reached a record high of \$3,866 on September 30

Gold, which rose 16% over the quarter, reached a record high of \$3,866 on September 30, following news of an imminent U.S. government shutdown that took effect on October 1, triggered by unresolved budget disputes. West Texas Intermediate (WTI) crude oil prices fell nearly 5% over the quarter, slipping from \$65 per barrel to \$62 per barrel by the end of September.

The Fed's dual mandate seems suspended somewhere between caution and complacency

Looking Forward

The Fed's dual mandate—to balance price stability with maximum employment—now seems suspended somewhere between caution and complacency: caution when it comes to cutting rates amid relatively modest signs of labor softening, and complacency when easing policy while inflation remains stubbornly above target. This tension comes at a time when recent market exuberance feels distinctly bubblicious, forcing investors to balance complacent equity allocations with stretched valuations. Historically, time in the market beats timing the market. The longer the holding period, the more consistent the results. However, entry valuations are critical: buying securities when valuations are low has, on average, generated better performance than buying when valuations are high, and valuations are unambiguously high. This all suggests some caution, even acknowledging that bubbles are unpredictable.



Source: SpringTide, Noah Kroese

Regardless of how things play out, we will gradually and very incrementally reallocate to asset classes and managers that have been out of favor and we believe offer the best risk-adjusted returns

That said, there are segments of the capital markets that have been ignored, even as others have roared ahead this year. If an AI bubble does burst, we believe the greatest cost would fall to those who are heavily concentrated in AI-related technology. Yet, like the dot-com bubble, the economic and investment fallout would likely remain relatively contained, unlike an event such as the Global Financial Crisis. These possible dislocations could create attractive prices that would give investors compelling entry points into high-quality companies that remain essential drivers of innovation. As for the parts of the market that may have been left behind, we will gradually and very incrementally reallocate to asset classes and managers that have been out of favor and we believe offer the best risk-adjusted returns, acknowledging that no one knows exactly how this will play out.

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DEFINITIONS

Asset class performance was measured using the following benchmarks: U.S. Large Cap Stocks: S&P 500 TR Index; U.S. Small & Micro Cap: Russell 2000 TR Index; Intl Dev Large Cap Stocks: MSCI EAFE GR Index; Emerging & Frontier Market Stocks: MSCI Emerging Markets GR Index; U.S. Interm-Term Muni Bonds: Bloomberg 1-10 (1-12 Yr) Muni Bond TR Index; U.S. Interm-Term Bonds: Bloomberg U.S. Aggregate Bond TR Index; U.S. High Yield Bonds: Bloomberg U.S. Corporate High Yield TR Index; U.S. Bank Loans: S&P/LSTA U.S. Leveraged Loan Index; Intl Developed Bonds: Bloomberg Global Aggregate ex-U.S. Index; Emerging & Frontier Market Bonds: JPMorgan EMBI Global Diversified TR Index; U.S. REITs: MSCI U.S. REIT GR Index, Ex U.S. Real Estate Securities: S&P Global Ex-U.S. Property TR Index; Commodity Futures: Bloomberg Commodity TR Index; Midstream Energy: Alerian MLP TR Index; Gold: LBMA Gold Price, U.S. 60/40: 60% S&P 500 TR Index; 40% Bloomberg U.S. Aggregate Bond TR Index; Global 60/40: 60% MSCI ACWI GR Index; 40% Bloomberg Global Aggregate Bond TR Index.

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