2024 banking and capital markets outlook

Deloitte Center for Financial Services

Banks' strategic choices will be tested as they contend with multiple fundamental challenges to their business models. They must demonstrate conviction and agility to thrive.



- 03 . . . Navigating the changing contours of the global economy
- 11... Forces shaping the future of the B&CM industry
- 15 . . . Retail banking: Fortifying customer relationships and owning a greater share of wallet
- 21 . . . Consumer payments: Grabbing a bigger slice of the revenue pie in a fast-evolving ecosystem
- 28 . . . Wealth management: Revamping the advice engine for the future of wealth
- 32 . . . Corporate and transaction banking: Enabling efficient money flows through digitization
- 39 . . . Investment banking and capital markets: Rejiggering business models and leading with cutting-edge technology
- 44 . . . Market infrastructure: Reinventing business models and becoming more indispensable to clients
- 49 . . . Endnotes

KEY MESSAGES

- A slowing global economy, coupled with a divergent economic landscape, will challenge the banking industry in 2024.
 Banks' ability to generate income and manage costs will be tested in new ways.
- Multiple disruptive forces are reshaping the foundational architecture of the banking and capital markets industry. Higher interest rates, reduced money supply, more assertive regulations, climate change, and geopolitical tensions are key drivers behind this transformation.
- The exponential pace of new technologies, and the confluence of multiple trends, are influencing how banks operate and serve customer needs. The impact of generative AI, industry convergence, embedded finance, open data, digitization of money, decarbonization, digital identity, and fraud will grow in 2024.
- Banks, in general, are on sound footing, but revenue models will be tested. Organic growth will be modest, forcing institutions to pursue new sources of value in a capitalscarce environment.
- Investment banking and sales and trading businesses will need to adapt to new competitive dynamics. Forces like the growth of private capital will challenge this sector to offer more value to both corporate and buy-side clients.
- Early 2023 shocks to global banking have galvanized the industry to reassess their strategies. While bank leaders focus on proposed regulatory changes to capital, liquidity, and risk management for US banks, there is much to be done to evolve business models.

Navigating the changing contours of the global economy

slowing global economy coupled with a divergent economic landscape will challenge the banking industry in new ways in 2024. Although recent efforts to combat inflation are showing signs of success in many countries, the risks brought to light by supply chain disruptions, rewiring of trade relationships, and ongoing geopolitical tensions will complicate economic growth worldwide. Extreme weather-related events, such as floods, heatwaves, and hurricanes, may also cause severe economic disruption.

With this backdrop, the International Monetary Fund (IMF) expects the world economy to grow at no more than 3.0% in 2024.¹ Advanced economies—i.e., the United States, the Euro area, Japan, the United Kingdom, and Canada—are forecast to experience tepid growth at 1.4% in 2024.² But many emerging economies should see higher growth on the back of strong consumer demand, younger demographics, and improving trade balances. In particular, India is expected to have one of the strongest growth rates: 6.3% in 2024.³

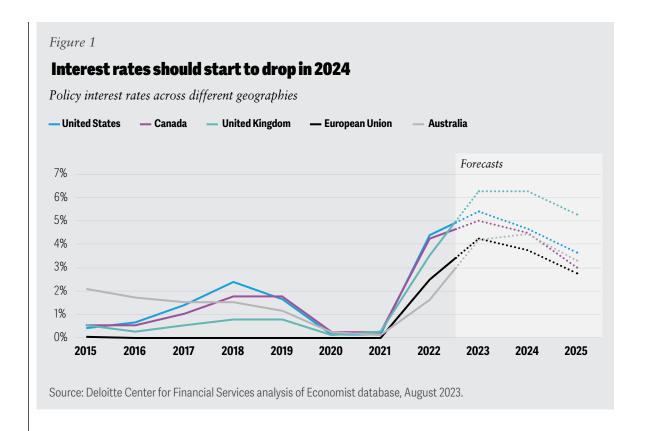
On the other hand, China is facing a potential economic slowdown with weak consumer demand and distressed property markets. The weakness in Chinese exports and imports will not only impact its trading partners, but may well challenge supply chain dynamics and further weaken global recovery. Recent efforts to revive consumer and corporate confidence in China could influence economic growth in other countries, particularly in Asia.

Global inflation is expected to drop to 5.2% in 2024, from a high of 8.7% in 2022, as per the IMF. In countries such as the United States, the labor market and consumer spending are showing signs of deceleration but are still elevated, challenging the targets set by central banks. In fact, the IMF predicts that inflation in almost all countries will remain above target rates.⁴

Central banks will be fine-tuning their monetary policies through 2024 (figure 1). The federal funds rate in the United States is expected to remain elevated at or above 550 basis points going into 2024 but may drop to between 450 and 500 basis points in the second half of 2024, according to latest FOMC projections. The European Central Bank (ECB) is expected to begin decreasing interest rates; in August 2023, the ECB policy rate stood at 3.75%, matching the peak in 2001.

Meanwhile, the Bank of England is expected to lower the policy rate in the first half of 2024 after reaching a peak of 5.75% at the end of 2023. The story is similar to the Bank of Canada: Rates should decline in the second half of 2024 after surpassing 5%, as per the Canadian Economic Quarterly Forecast by TD Economics. In contrast to other central banks, the Bank of Japan has kept the policy rate near zero, but its July 2023 meeting indicated that it would tweak the bond yield curve control schemes to respond more nimbly to price pressures.

But generally, central banks' quantitative tightening measures will contract global money supply. In fact, in the United States, money supply, as measured by M2, has been falling at its fastest rate since the 1930s. ¹⁰



These challenges will result in divergent and sporadic economic growth. Some economies will face a brighter future, while others will still be fighting stickier inflation and low growth.

How will the macroeconomic environment in 2024 impact the banking industry?

Banks globally will face a unique mix of challenges in 2024. Each of these hurdles will impact banks' ability to generate income and manage costs (both interest costs and operational expenses).

Deposit costs are here to stay—for now

Higher interest rates have been a boon to the banking industry. In 2022, net interest income increased significantly in many jurisdictions, with American and Canadian banks posting a rise of 18% year over year (YoY), followed by their European peers at 11%.¹¹

However, elevated rates will continue to push funding costs higher and squeeze margins. The pace and steepness of the current rate cycles have dramatically boosted the cost of interest-bearing deposits for US banks. But these costs have risen more sharply for regional and midsize banks. For instance, deposit costs for the largest banks stood at 2.2% in Q2 2023, compared to 2.5% for the smaller banks.¹² This is a similar pattern in other countries that have experienced rate hikes.

Going forward, the global banking industry may be hard-pressed to bring down high deposit costs (and lower deposit betas) even as interest rates drop. Customer expectations of higher rates, coupled with increased market competition, will force many banks to offer higher deposit rates to retain customers and shore up liquidity. The situation will vary by region, though. European banks may be able to decrease deposit costs more rapidly, for instance. The European



banking industry has not faced as much competition from money market funds, unlike in the United States. During the banking turmoil in March 2023, inflows into Europe's money market funds totaled US\$19.3 billion, dwarfing in comparison to US\$367 billion into the US money market funds. Similarly, Asian banks, in India, for instance, may sustain higher rates in the wake of stronger economic growth. In fact, banks in the Asia-Pacific (APAC) region are expected to outpace global peers in generating stronger net interest income.

Loans growth will be modest, at best

In terms of loan growth, we expect demand to be modest given the macroeconomic conditions and high borrowing costs. Banks will also likely continue their restrictive credit lending policies. According to the recent bank lending surveys conducted by the Federal Reserve and the ECB, many banks have already tightened credit standards across all product categories. They anticipate further tightening due to a less favorable economic outlook and likely deterioration in collateral values and credit quality. 14

However, the impact of the macroeconomic environment will be disparate across loan categories. Consumer spending has remained robust in major economies, but as consumer savings deplete, demand for credit card and auto loans should remain strong. At the same time, across the United States and Europe, bank loan demand from firms has decreased significantly. Bank loans to corporates may weaken in the short term but could pick up later in 2024. (See sidebar, "Real estate jitters" for commentary on commercial real estate loans.)

REAL ESTATE JITTERS

Residential mortgage origination in the United States may see a robust increase in contrast to other advanced economies such as the United Kingdom, Germany, and Australia. However, the commercial real estate (CRE) sector in the United States will continue to be stressed, and this will particularly affect regional and midsize banks that may be overexposed to office space. In light of higher uncertainty, inflated property prices, and concerns about debt repayments, banks will be more selective in their new CRE originations and refinancing. Banks could also be forced to realize losses on certain loan portfolios if there are fire sales or foreclosures at a large scale. CRE loan delinquencies are already rising. The delinquency rate (90+ days past due) in the United States has increased, from 1.84% in Q4 2022 to 3.3% in Q1 2023.¹⁵

The European CRE market appears to be more resilient than the US market. European CRE loans are largely concentrated among the larger banks that are well-capitalized. The APAC region is also expected to follow a smoother trajectory; demand from the hospitality sector should support growth in CRE loans, while multifamily residential mortgages will likely see a continued uptick.

Climate change should also play an important role in loan demand and credit availability. According to a recent EU Bank survey, ¹⁷ over the next 12 months, banks expect a stronger credit tightening due to climate risks on credit standards for loans to "brown" firms, while a net easing impact is expected for green firms and firms transitioning to decarbonization. Firm-specific climate-related transition risks and physical risks should have a much larger role in credit disbursements going forward. ¹⁸

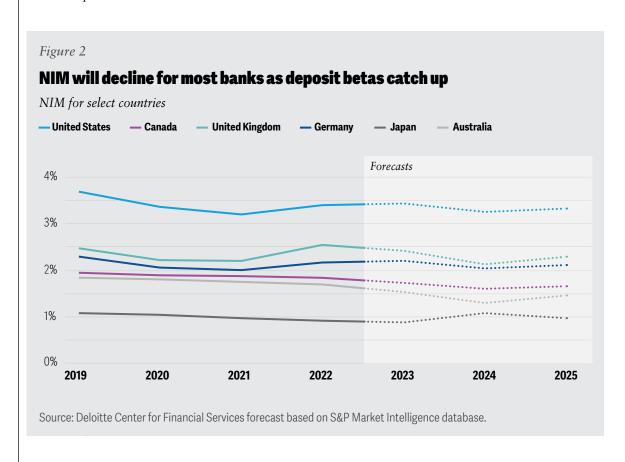
The combination of higher deposit costs, lower policy rates, and somewhat constrained loan potential can adversely impact banks' ability to generate strong net interest margin (NIM) in 2024. In fact, banks' NIMs may already have peaked, as suggested by recent bank earnings. US and European banks should experience a decline in net interest margins in 2024 (figure 2). APAC banks are more likely to enjoy stronger net interest income next year with a higher—and possibly rising—rate environment in many developing countries. These new factors will likely force banks to reassess the true cost of deposits and how they may be deployed.

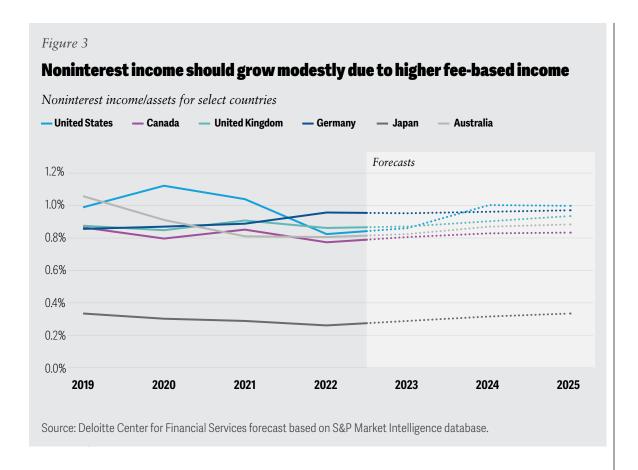
More noninterest income sources will be sought out

Banks should prioritize noninterest income in 2024 to make up for the shortfall in net interest income.

Noninterest income is expected to grow meaningfully in the next few years (figure 3). Most banks will seek to raise fee income through a variety of channels, but they may face some constraints in doing so. Consumer-focused fees, such as overdraft fees, nonsufficient funds fees, and credit card late fees, could attract regulatory scrutiny.

However, banks with stronger advisory, underwriting, and corporate banking franchises should have more room to grow their fee income. Clearer valuations and a backlog of deals should lead to higher M&A and issuance activities in the United States, boosting fees. However, reduced volatility across different products will crimp revenue growth in both equities and FICC (fixed income, commodities, and currencies) trading.

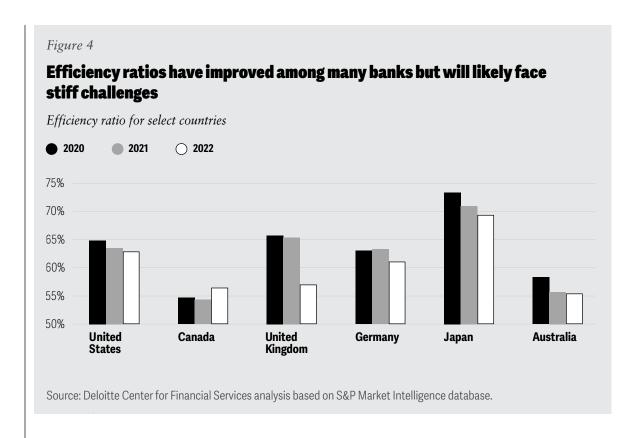




Sharpening the cost discipline

With the rising pressure on revenue generation, cost discipline will become even more of a priority, and possibly a competitive differentiator for banks. Efficiency ratio has been improving in the last few years globally (Figure 4), but it is expected to inch higher in 2024, due to sluggish revenue growth and high operating and compensation

expenses. Many banks will also continue to invest in technology to remain competitive. Attracting talent in specialized areas such as artificial intelligence, cloud, data science, and cybersecurity should bump up compensation expenses, even as banks rationalize in other areas. In addition, tight labor markets and accelerated wage growth in traditional offshore locations should add to the industry's cost pressures.



Guarding against loan losses

In the first half of 2023, many banks raised their provisions for future credit losses, anticipating elevated loan defaults from a pandemic-era low. For instance, in Q2 2023, cumulative provisions for the top 10 US banks rose by 26% quarter over quarter (QoQ).¹⁹ Credit quality is expected to deteriorate as customers' ability to pay off loan diminishes, and the full impact of inflation and monetary tightening is felt by businesses and consumers. There is already evidence of rising delinquencies in certain loan categories, such as credit cards and CRE.²⁰

Similarly, corporate default rates in the speculative grade may also increase.

While credit quality is decreasing and showing stress in specific segments, credit quality as a whole appears to be normalizing to prepandemic levels. Banks are continuing to build reserves to restore reduced balances over the last few years. Most large banks, globally, seem to have adequate liquidity and strong capital buffers to withstand a severe downturn, as evidenced by recent stress test results by the Federal Reserve, the ECB, and the Bank of England.²¹

US BASEL III ENDGAME IMPLICATIONS

The US federal banking regulators recently released a notice of proposed rulemaking (NPR) on Basel III final reforms. The proposed changes are aimed at improving the "strength and resiliency" of the US banking system and will impact the regulatory capital frameworks for banks above US\$100 billion in assets (about 36 banks). Smaller banks with significant trading activity will also be subject to the new risk framework. These changes are estimated to result in a 16% increase to CET1 (common equity tier 1) capital levels and a 20% increase to RWA (riskweighted assets) for large bank-holding companies.22

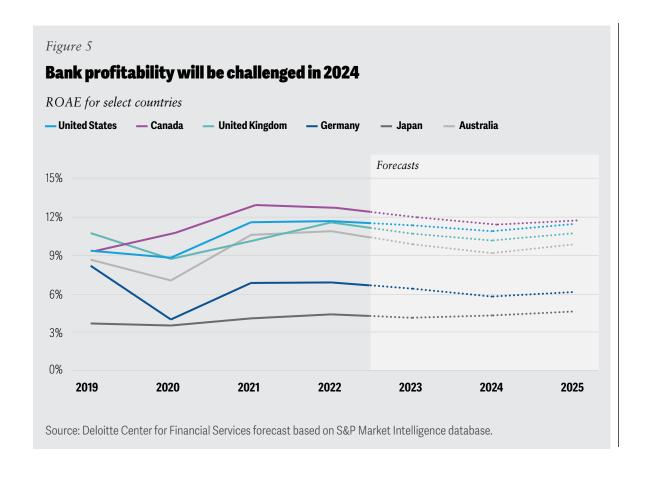
Higher capital requirements are likely to disadvantage global banks domiciled in the United States and constrain lending, capital markets, and trading activities of all banks, possibly benefitting nonbanks and smaller institutions. These expansive

changes, including the application of AOCI, G-SIB surcharge, and dual-RWA requirements, will lead to higher operational burdens, requiring significant investment in risk management, data, controls, compliance, and validation infrastructure.

The impact on banks with large recurring and fee-based businesses, such as credit card fees and investment banking fees, as per the Federal Reserve will be "exacerbated by the use of an internal loss multiplier that may result in an excessive overall capital charge for operational risk." ²³ The new provisions will reduce fee margins for securities underwriting and could materially reduce the depth of banks' products. This could further increase transfer of services and associated risks to nonbanks/unregulated sectors.

The new rules will also require banks to factor in unrealized gains and losses in capital ratios to comply with the supplementary leverage ratio requirement and the countercyclical capital buffer. In the short term, some banks may look at diminished buybacks. They could also impact investments in technology and market expansion strategies.

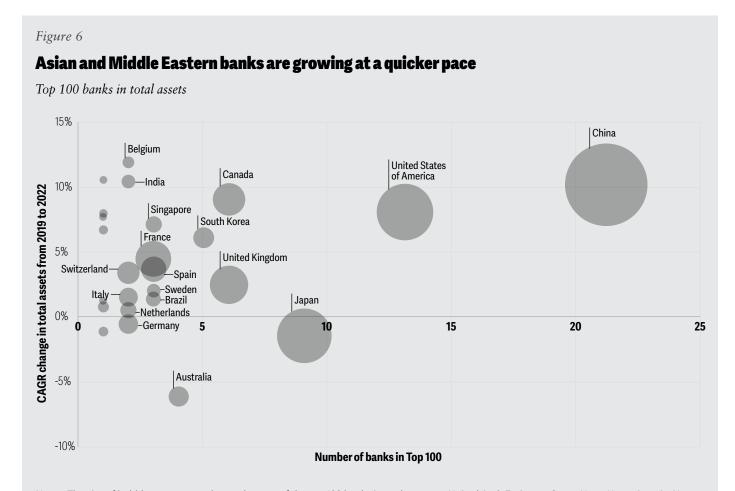
The Basel III NPR allows a transition period of three years, starting July 1, 2025.²⁴ The proposed rules will undoubtedly evolve in the future, but it will be important for banks to assess existing internal infrastructure and potential strategic implications, and engage in continuous conversations with regulators.²⁵



Bank profitability in many regions will be tested in 2024 due to higher funding costs and sluggish revenue growth (figure 5). However, banks with more diversified revenue streams and a strong cost discipline should be able to boost their profitability, and possibly their market valuation, more than most.

The tilt toward Asia

Going forward, the size and scope of global banking will change even more. The global banking industry has already seen fundamental shifts with Chinese and American banks dominating the global rankings. Figure 6 shows the changes in size (as measured by assets) and the number of banks from each country in the top global 100 banks. Over the next decade, more banks from India and the Middle East are expected to join the ranks of the top 100, tilting the balance toward Asia and the Middle East. Indian banks will grow their balance sheets as the economy grows and huge investments are made in domestic infrastructure, but they may struggle to break outside their domestic markets. Meanwhile, sovereign wealth funds in the Middle East will likely exert strong influence on global money flows.



Notes: The size of bubbles represents the total assets of the top 100 banks in each country; United Arab Emirates, Qatar, Hong Kong, Austria, Norway, Finland, and Denmark have one bank each in the top 100 by assets.

Source: Deloitte Center for Financial Services analysis of Refinitiv database, August 2023.

2024 banking and capital markets outlook

Forces shaping the future of the B&CM industry

n addition to the macroeconomic factors highlighted in the previous chapter, the banking and capital markets industry must contend with various fundamental and disruptive forces challenging incumbent institutions' business models in 2024 (figure 7). Not only are competitive dynamics shifting, but the pace and intensity with which rivals are challenging banks is unprecedented. Banks are now more intensely pitted against traditional and new rivals as more customers become open to having their needs met by nonfinancial institutions.



Deposits, for example, have become a ferocious battleground. Retail banks are competing with digital banks offering higher deposit costs. And in the payments arena, digital wallets and account-to-account payments are fast becoming the *de facto* payment options in many countries, while buy now, pay later (BNPL) is more widely accepted as a mainstream offering and alternative to credit card financing.

Capital markets and investment banking businesses are not immune to new competitive forces, either. Scale has helped bulge-bracket investment banks in the United States grow market share; however, a resurgence among European banks might be underway as they focus on specialized services, and boutique firms increasingly participate in bigger deals. Meanwhile, private capital could pose a greater threat for credit provisioning and talent. Hedge funds are also increasingly penetrating more of investment banks' value chain. In market infrastructure, traditional exchanges see increasing competition from niche exchanges and the growth of trading venues in emerging markets.

At the same time, the relationships between banks, fintechs, and bigtechs are evolving rapidly. Fintechs are largely no longer seen as adversaries; collaboration with incumbents is now commonplace. With increasing industry convergence, strategic partnerships of banks with franchised brands in technology and other nonfinancial industries is becoming the norm for customer acquisition and retention.

Concurrently, customers are becoming more vocal about their evolving expectations. They want their banks to balance digital-first experiences without compromising the personal touch. Information is also becoming democratized, with technology and social media empowering customers in ways not seen before. Banks should heed these new demands as retail customers are spoiled for choice and many will be willing to switch accounts and diversify their relationships across multiple platforms with a tap on their smartphones. Younger consumers, in particular, are clamoring for a superior experience that some technology firms and fintech platforms offer. Wealth management clients are increasingly vocalizing their desire for omnichannel experiences at lower costs. And corporate and institutional customers, for their part, seem more intent than ever to broaden the number of banking relationships to diversify risk.

On the regulatory front, we continue to observe a divergence in laws and policies, with some jurisdictions typically charting a more assertive path, as in the EU's new AI Act. ²⁶ As a result, there is still a lack of a coordinated, global approach to crypto, digital assets, data privacy, artificial intelligence, and even climate risk. But regulatory scrutiny is on the rise, with governments increasingly focusing on consumer protection, industry resilience, and open competition. More regulators and policymakers around the world are now probing banks' lending practices and calling on them to do more to help consumers.



In addition, banks, particularly in the United States, could face stricter capital requirements under a proposed overhaul to capital rules as part of Basel III "endgame" starting July 2025.²⁷ These rules could impact banks' ability to support some capital markets activities, such as prop trading. They could also impede retail banks' ability to lend in the residential mortgage space.

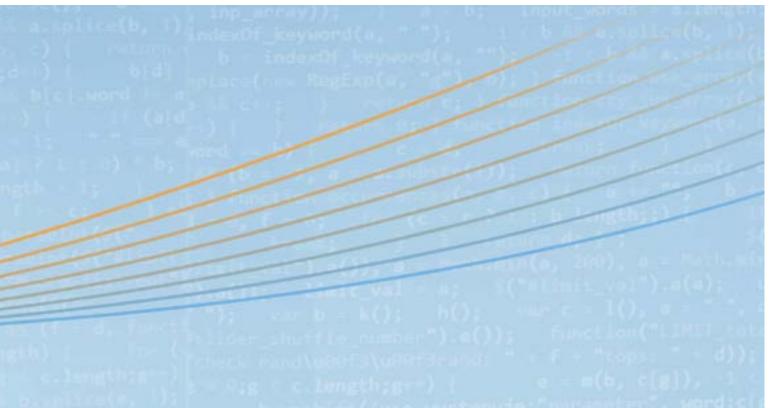
Regulatory pressures will be particularly acute for regional and small banks, especially those that are concentrated in their investment and lending portfolio and deposit mix. Many banks will spend the bulk of 2024 trying to tighten lending standards and diversify their balance sheets away from risky assets such as CRE loans and even safe assets such as long-term treasuries.

Meanwhile, open banking regulations in the United Kingdom, Europe, Australia, Saudi Arabia, Brazil, and Mexico are reducing the barriers for data sharing and offering customers more choice for financial products and services. The US Consumer Financial Protection Bureau (CFPB) is mulling similar rules.²⁸ US consumer watchdogs are also sounding the alarm on the proliferation of artificial intelligence (AI)-driven chatbots in banking.

Scale and diversification, greater regulatory oversight, and the desire to shed low-yielding assets should drive further consolidation and M&A in the banking industry.

In the technology arena, it is hard not to get caught up in the excitement surrounding the incredible potential of generative AI. By all accounts, it can be a hugely transformative force. But more broadly, AI and automation are not new to banking. In fact, machine learning/deep learning algorithms and natural language processing (NLP) techniques have been widely used for years to help automate trading, modernize risk management, and conduct investment research. However, despite the billions of dollars spent on automating the various functions across the transaction life cycle, there are still a fair number of tasks that are conducted using precious human capital. But large language models (LLMs) could help automate many tasks, from generating marketing products to coding. Generative AI can not only save money, but also improve worker productivity. It could also free up resources to spark innovation and enable employees to focus more on productively interacting with clients.

Scaling generative AI will take time. In the short term, one of the biggest challenges in 2024 will be to determine the focus. In assessing the many potential use cases, leaders should choose the ones that will be the most impactful. The benefits of LLMs may not be uniform. They should also consider the potential ease of execution and any associated risks.



But for any of these technologies to have maximal impact, having the right data—and making sure it can be accessed and shared across the enterprise—will be key. While banks have been building out data capabilities for years, the pressure to derive insights to gain a more holistic view of customers has never been greater. There is a growing appetite among customers for real-time data about their payments, cash positions, trading, and valuations. In addition, advances in open banking globally are gradually eroding what was once traditional banks' competitive edge. It is becoming increasingly important for banks to meaningfully harness both traditional and alternative datasets, as well as forge new partnerships with third parties, to create new value in the form of personalized insights, tailored product offerings, and enhanced customer experiences.

The proliferation of new technologies is opening banks to risks they may have never had to grapple with before. Open banking and the increase in partnerships with technology partners, for example, can expose banks' infrastructure to new vulnerabilities and cyberattacks. Fourth-party risks are also becoming more of a threat as banks engage in more partnerships with service providers that have their own vendors. The speed with which these threats take shape is also accelerating. Generative AI has gained the sophistication needed to create "deepfakes," which makes it more challenging for financial institutions to differentiate human customers from digital media imitating their likenesses. Collectively, this fast-moving risk environment is proving to be a huge obstacle to maintaining customer trust.

And, of course, one cannot ignore what climate change is already doing to our planet—the multiple heat waves, floods, and wildfires in the first half of 2023 are a

precursor to what is likely to be the norm in the future. Banks, as key financial intermediaries, play an important role in bending the arc of climate change. But looking beyond, banks have a unique opportunity to support climate innovation through green finance and carbon markets. Not only can they provide early-stage financing to startups piloting carbon capture and storage and carbon dioxide removal technologies, but they can also help direct more capital to carbon project developers in emerging economies.

Finally, how well banks manage their talent will one of the most critical success factors in 2024 and beyond. The war for talent in technology remains a pressure point for many banks. Banks may have to pay dearly to hire specialized tech talent from outside businesses or train their own employees to become more tech savvy, especially as innovations from and within AI expand. Bankers should be empowered with the knowledge and resources they'll need to adequately advise clients amid market uncertainties. As with other industries, banks may also have to instill a culture that reconnects employees with their corporate identity and creates a sense of belonging that can be a conveyed in a hybrid work environment.

To effectively deal with the forces outlined above, banks will likely have to make agility a fundamental attribute. Executives should be bold, decisive, and creative, yet remain true to their identity as financial intermediaries.

In the following chapters, we highlight how these themes will impact specific segments within banking and capital markets, including *retail banking*, *consumer payments*, wealth management, corporate and transaction banking, investment banking, and market infrastructure.

Retail banking: Fortifying customer relationships and owning a greater share of wallet

PRIORITIES FOR RETAIL BANKS IN 2024 AND BEYOND

Retail banking businesses will not only grapple with higher funding costs and slower loan growth, but they must also contend with declining loyalty and increasing customer defections. While deposit flows should stabilize, it will likely remain challenging to contain deposit costs even as policy rates decline. Banks should also expect new rules and regulations in the form of higher capital and liquidity requirements, as well as heightened scrutiny of risk modeling. In addition, weakening household finances will continue to pressure banks' loan books, prompting further credit tightening.

Retail banks should find new ways to forge deeper customer relationships and instill a greater sense of financial empowerment. Personalization will be key to demonstrating lifetime value. But banks will likely struggle to customize products and services due to legacy systems and their inability to curate tailored experiences using customer data. They should strive to adopt advanced modeling tools that generate predictive insights and enable the delivery of real-time financial advice. Banks should also look at how emerging technologies can improve risk, compliance, and operations tasks in addition to enhancing the customer experience. For example, they can consider how generative AI may accelerate credit risk assessments, instantly alert mortgage applicants to missing or incomplete documents, and boost the productivity of customer-facing teams.

Retail banks are grappling with a confluence of pressures, including higher funding costs, growing competition from digital banks, and surging demand for increasingly personalized services, even as they explore how best to deploy generative AI and strengthen their data analytics capabilities. Many of these challenges will be exacerbated by the fact that retail customers are spoiled for choice, and it has become easier for them to switch accounts and diversify deposits across multiple platforms. In addition, the growth of embedded finance and open banking are changing the face of retail banking as customers know it.

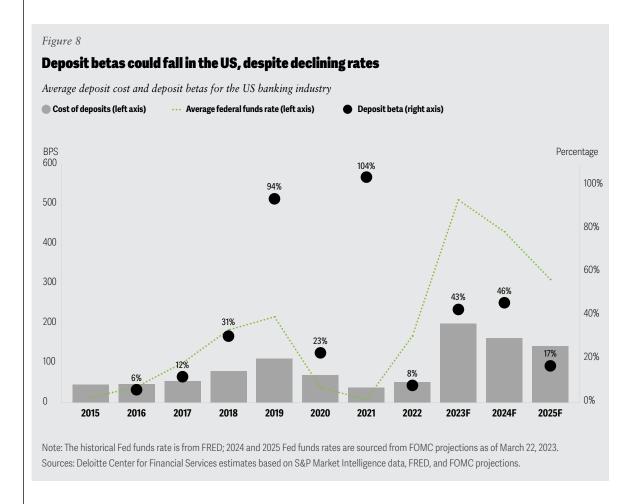
While deposit outflows largely stabilized after a turbulent first half of 2023, many challenges persist. On the lending side, higher rates continue to lower borrowers' appetite, leading to slower pace of growth for new loans and refinancing. Retail customers are running behind on payments, causing more auto, credit card, and consumer loans to head into delinquency. Banks around the world are increasing their buffers to prepare for a higher rate of defaults. Canada's five biggest lenders, for example, boosted their YoY loan loss provisions 13-fold in the first three months of 2023.²⁹ Banks will likely tighten credit further heading into 2024 and may even look to sell subprime auto loans and riskier home equity loans to strengthen their balance sheets.

These mounting challenges will have disparate impacts on retail banks in 2024. Which banks will be strained the most, and how can they reposition their business models to deliver more value to their customers? What other opportunities may be available for banks to recapture customer loyalty and serve customers beyond the point of transaction?

The fight for deposits will continue

Although deposit flows stabilized in Q2 2023, banks will incur increasingly higher costs to retain deposits. For instance, the cost of interest-bearing deposits (including certificates of deposit, money market deposit accounts, and savings deposits) in the United States rose by 192 basis points to 2.1% by the end of 1H 2023, up from 0.2% a year ago.³⁰ This trend accelerated in the wake of bank failures, when the goal of retaining deposits became even more paramount. Going forward, the industry should be hard-pressed to bring down their deposit costs even as the policy rate declines (figure 8).

Retail customers are demanding higher rates on their deposits, and many have already switched their cash into higher-yielding time deposits.³¹ Some US brokerages are beginning to chase "held-away cash" at retail banks with new services through higher yields.32 Digital banking is also contributing to this phenomenon. Digital-only banks, for instance, will likely continue to offer higher CD rates; they are also offering variations on typical features such as a CD with no early withdrawal penalty. Several online banks, such as Ally Financial and Goldman Sachs' Marcus, bucked the deposit exodus trend experienced by some regional and midsize banks and grew their deposit base during the first half of 2023.33 These digital-only banks and fintechs backed by traditional banks joined large traditional banks as the winners of March 2023's flight to safety.34 Choice Financial Group, which sponsors the fintech Mercury, saw 17% deposit growth that quarter. SoFi and Varo Bank each had 37% and 43% quarterly deposit growth, respectively.³⁵



Similarly, European car manufacturers are increasingly looking for alternative sources of funding for auto loans, given the soaring costs of corporate bonds and asset-backed securities. As a result, they are also emerging as rivals to traditional banks.³⁶ These automobile companies are luring depositors with higher interest rates for deposits and money in savings accounts.³⁷

European customers are also increasingly withdrawing money from banks in search of better terms due to some lenders' reluctancy to pay more to retain deposits they believe they can do without. Most of Europe's largest banks reported net deposit outflows year over year for the first quarter of 2023.³⁸ Money market funds are also popular with European savers seeking a higher return on their cash in the face of persistently high levels of inflation.

New rules and regulations will also pressure retail banks. In particular, higher capital and liquidity requirements, a reevaluation of assumptions about deposit stickiness by supervisors, and closer scrutiny of how capital and deposit dynamics should factor into banks' risk modeling will be priorities on the regulatory agenda. Recent events have also reiterated the importance of scale and stability. Some banks may not have the appetite to remain below certain asset thresholds. As a result, more M&A activity within the banking industry is likely. Entities with sticky deposits that lack strong lending platforms may be particularly attractive targets during any upcoming wave of consolidation.³⁹ Some midsize and regional banks could also seek mergers that will bring in enough outside capital to enable the sale of low-yielding assets.⁴⁰

Banks should take steps to remind customers of the value they provide beyond deposits by broadening the conversation to include additional avenues of support, such as wealth management and insurance services. They should also use data analytics to identify at-risk account holders and create custom product and pricing solutions that may be preferable for their unique circumstances.⁴¹

Lending pressures will continue to weigh on banks

Higher rates, persistent inflation, and weakening household finances will continue to pressure banks' loan

books. While many banks have been buoyed by net interest income, potential rising delinquencies and loan loss reserves should start to impact profitability more. The return of student debt payments in the United States will also add more financial stress and impede spending at a time when many consumers are struggling with the higher cost of living. As a result, it will be increasingly important for banks to actively engage with customers and pivot to an advice-based model to help these customers manage their debt.

US banks should also anticipate slower growth and prepare for a rise in consumer loan defaults. Some banks have started to reduce their exposure to home lending as mortgage originations fell to their lowest point in 20 years, dropping 56% between the first quarters of 2022 and 2023.⁴² In addition, large lenders could soon face stricter capital requirements under a proposed overhaul to bank capital rules by US banking regulators.⁴³ These changes may impact banks' ability to lend to first-time and underrepresented homebuyers.⁴⁴

Demand for mortgages and consumer loans in Europe are also expected to falter, while tightening credit standards could constrain spending and growth.⁴⁵ Meanwhile, APAC is also struggling with anemic loan demand, prompting many banks to consider new sources of revenue. Banks in Mainland China, for example, are trying to spur demand for mortgages by offering relay loans for elderly borrowers that are inherited by children if they cannot pay, as well as joint loans for unmarried couples.⁴⁶ Australia's major lenders are also beginning to divert resources away from residential mortgages and are weighing moves into other businesses, such as commercial loans.⁴⁷

Regulators and policymakers around the world are also increasingly scrutinizing banks' lending practices and calling on the sector to do more to help consumers. The Consumer Financial Protection Bureau is focusing on banking "junk fees" and working to make mortgage servicing and auto lending less risky for borrowers. Meanwhile, a new UK regulation will bring more transparency to mortgage lending, and South Korea has made it easier for new entrants to compete with large lenders. 50

Banks should also take steps to help improve their credit risk models by making them more inclusive with the addition of more alternative data. Rent payment history, gig economy income, and utility bill payments may help credit invisibles: consumers with limited information to demonstrate creditworthiness. In addition, they can develop more embedded finance tools in lending processes, such as adding technologies that enable instant loan approvals at an auto dealership.

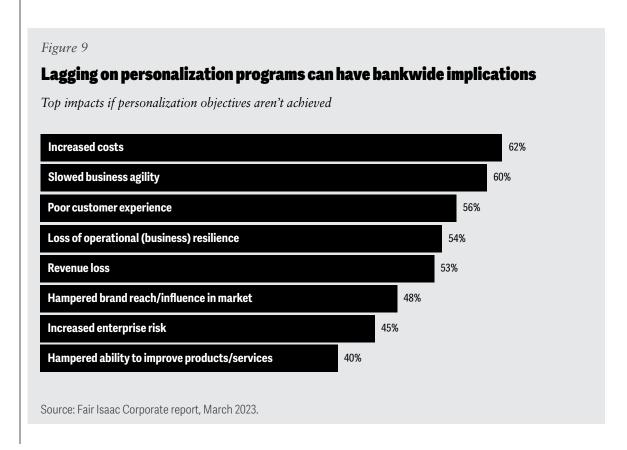
Empowering customers and reimagining loyalty

Global banks can't solely rely on brand recognition to grow their customer base. They should take greater steps to redefine what customer loyalty looks like and forge deeper relationships by supporting and empowering customers.

Banks should strive to be the go-to hub for most of consumers' financial needs, especially as economic uncertainties weigh on customers more heavily over the coming year. Only 21% of customers surveyed

say they've received guidance or advice from their primary bank between January 2022 and January 2023, even though the financial health of many Americans dropped markedly in that period.⁵¹ Customers who received advice and felt it met their needs were more likely to reward the bank accordingly: About half opened a new account with that institution.⁵²

Banks should look for where they can use customer data to personalize experiences and deepen customer lifetime value. This has been a priority for global banking leaders for some time, but personalization efforts have been hampered by legacy systems, data privacy concerns, lack of data, and the inability to harness data fully to curate tailored experiences. As a result, two out of three banks report they are unable to assess the context of a customer's situation outside of a single moment in time. This inability is not only detrimental to the customer experience; it can also hinder financial performance and fraud detection (figure 9).



Banks should increasingly invest in advanced modeling tools that can parse through transaction data and deliver predictive insights at multiple customer touchpoints. They can also use emerging AI capabilities to provide richer and more targeted advisory services. Over time, banks should seek to advance hyperpersonalization to the point that customers feel they are a segment of one.⁵⁴ For example, if a bank sees that an aspiring borrower abandoned a mortgage application to check out other lending platforms, it may dispatch an advisor to contact the applicant with a more competitive rate and offer of personalized support.⁵⁵

Banks should also shift away from a product-focused business model to become a consumer-centric organization. As industry lines blur, and customer expectations are influenced by experiences in other domains, customers are increasingly expecting banks to replicate the services they get elsewhere. Some are also becoming more comfortable having their needs met by nonfinancial institutions. Bank leaders can learn from customer interactions with entities outside of banking and consider new opportunities to serve them in a more unique or holistic way. Northwestern Mutual, for example, took a page out of a dating app playbook to design a matchmaking algorithm that pairs customers with financial advisors that are best suited for their needs.⁵⁶

Strategic partnerships with franchised brands can also be a powerful tool for customer acquisition and retention, especially if the bank works with third-party institutions to deliver custom rewards. For example, hundreds of music fans shared plans on social media to apply for a Capital One card to gain access to presale tickets for a popular 2023 concert tour. These nontraditional, nonbanking perks are beginning to play a greater role in customers' choice of a primary financial services provider. However, such brand sponsorships could also come with some risks.

Forging ahead with tech advances and innovation

Banks should also seize opportunities to use emerging technologies to reduce risk, streamline operations, and build trust with customers by offering new safeguards from fraud. For example, open banking initiatives that give customers more control of their finances are gaining steam in many parts of the world. Regulators and central banks continue lowering the barriers for data sharing in the United Kingdom, Europe, Australia, Saudi Arabia, Brazil, and Mexico. The US market may also usher in a wave of open banking soon, as the CFPB mulls a new rule to give customers more rights over their personal data. The rule could open the door for third-party firms to seek consent for access to customer data through application programming interfaces (APIs), and provide more tailored services such as budgeting, financial management, and lending. This could also help large banks obtain data from other institutions, such as community banks and credit unions, which may be useful for growing their own business lines.⁵⁸

Banks can also develop new methods for issuing and authenticating digital identity, especially as more deepfakes emerge that take on the likeness of real or fabricated humans. Greater adoption of digital wallets is also heightening the need for safeguards. In the Nordics and Canada, many financial institutions garnered a great deal of goodwill and trust by advancing BankID and Interac Verified systems, 59 demonstrating their role as credibility agents in the digital economy. Biometrics, including behavioral biometrics that analyze a consumer's touchscreen behavior, mobile app navigation, and typing habits, will also become more and more pivotal in the fight against fraud.

In addition, in the near term, generative AI will have many benefits for risk, compliance, and operations functions. For instance, banks are evaluating how the technology can improve mortgage applications by performing faster and more accurate underwriting processes and enabling conversational AI tools to instantly alert borrowers to missing or incomplete documents.

Some banks are launching pilots to learn how they can better assist customers with the nascent technology. ABN Amro in the Netherlands, for example, is using generative AI with 200 employees to summarize their conversations with customers. It is also testing how it can gather customer data to resolve issues in real time. Sweden's Klarna Bank has equipped every employee with access to generative AI language models and asked them to experiment with the technology. PMorgan Chase estimates that these tools will generate

an additional US\$1.5 billion in value by the end of 2023.⁶² Its retail bank has found success in using AI to extend customized offerings, such as credit card upgrades.⁶³

Financial institutions are still reluctant to embed AI into customer applications since it can bring about new exposures to ethical and security risks. In the United States, the CFPB warned that banks using generative AI may

not be providing "timely, straightforward" answers to user questions, and expressed concern about the tools' ability to comply with consumer protection laws. 64 But as banks learn to use generative AI safely, they can make chatbots more sophisticated and easier to understand, deliver personalized marketing campaigns customized to each target's content consumption habits, and reduce wait times for processes such as mortgage lending.



2024 banking and capital markets outlook

Consumer payments: Grabbing a bigger slice of the revenue pie in a fast-evolving ecosystem



PRIORITIES FOR PAYMENTS INSTITUTIONS IN 2024 AND BEYOND

2024 will see an acceleration of several trends shaping the future of the consumer payments industry. Consumer spending will increasingly shift from cash to digital payments. However, growth in digital and real-time payments, along with the proliferation of artificial intelligence, will also make fraud and cyber threats more challenging to prevent and detect.

Governments, especially in developing economies, will play a more prominent role in consumer

payments by expanding financial inclusion, reducing inefficiencies, and fostering competition. The trio of regulatory, market, and competitive forces will further challenge the economics of the volume-focused business models. Many incumbent institutions recognize they need to deliver new value beyond transaction execution to remain relevant, as the traditional boundaries in the payment ecosystem blur.

Use of proprietary and alternative data and more robust analytical models should enable institutions

to better understand consumers' needs and offer more personalized insights. They should engage collaboratively with the ecosystem but choose the right third-party providers (TPPs) that consumers trust to lessen concerns around security and privacy. Investing in technology talent and using sophisticated AI and biometrics technologies could help incumbents strengthen fraud detection models and protect consumer payments and data from malicious actors.

The world of global consumer payments is evolving rapidly, driven by a multitude of factors. Digital wallets and faster payment rails are pushing traditional payment methods further into the background. However, use of credit cards has stayed resilient and BNPL has further democratized access to credit at the point of sale, both in-store and digitally. Governments are actively pushing the bar on financial inclusion with digital faster payments, such as Instant Payment Platform in the United Arab Emirates and Unified Payments Interface (UPI) in India. 65

However, the shift from cash to digital payment methods shows a divergence in maturity levels across countries and regions. Countries, such as Norway and the Netherlands, have been trailblazers in the use of digital payments in the developed world for some years now. Joining them are China, India, and Brazil, leading the digital payments revolution from developing

economies. Meanwhile, many countries in Europe and Asia-Pacific, despite their sizable economies, are a bit behind in the use of cashless payments.⁶⁶

Despite these differences, the resilience in consumer spending, especially in travel, has translated well for card issuers and payment networks. JPMorgan Chase reported a 7% increase in credit and debit card transactions and an 18% rise in card loans in Q2 2023, largely attributed to its US volumes. F Similarly, Mastercard reported a 12% YoY growth in global gross dollar value of transactions to US\$2.3 trillion in Q2 2023, attributed largely to international travel and cross-border spending.

However, consumers are acquiring more debt, thus increasing the credit risk for issuers. Credit cards remain the dominant payment method for American consumers, encompassing 31% of payments in 2022.⁶⁹ US consumer

credit card debt surpassed US\$1 trillion in Q2 2023, reaching a new peak since 2003.⁷⁰ In the same quarter, the 30+ day credit card delinquency rate climbed to 7.2%, a level last seen more than a decade ago in 2012.⁷¹ The moratorium on US student loans ending in September 2023 could further deplete consumers' savings and constrain their ability to pay their credit card dues on time.

Concurrently, institutions in the card value chain must also grapple with the changing economics of their business models. For instance, regulators in the United States plan to reduce card swipe fees. Meanwhile, national governments are building sovereign card rails and forging bilateral deals to bring more efficiencies to domestic and cross-border payment flows. Debit volumes are under pressure with a rise of account-to-account-based real-time payments networks. Meanwhile, software players are bringing payments in-house, eating into the revenue of merchant acquirers.

Given these mixed dynamics, what should payments institutions do to increase their share of the revenue pie in 2024 and beyond? How can they reimagine value creation and delivery to remain relevant to consumers and bolster their competitiveness?

Economics of card swipe fees face a new threat

Card networks have faced pressure from retailers to lower card swipe fees for some years now, but this issue is finding a new voice in lawmakers' reform agendas across different jurisdictions.

In the United States, the Credit Card Competition Act (CCCA), reintroduced in Congress in June 2023, proposes more network choices for merchants to further reduce swipe fees. ⁷² Some retailers are passing on part of this cost to consumers by imposing a surcharge on credit card transactions. Lawmakers are hoping that additional competition will result in lower cost to retailers, and ultimately, to consumers in the form of lower prices.

But if this law is passed, it could hamper the ability of incumbent payments networks and card issuers to offer attractive rewards to consumers, which are largely financed by swipe fees. The restriction on swipe fees could also reduce issuers' incentives to issue cards to consumers with inadequate access to credit.

It is also not clear how much retailers' savings would ultimately be passed on to consumers, if at all. But increased price competition would put an additional strain on issuers and networks' transaction revenues and the card products they offer to consumers.

Swipe fees are not a burning issue in Europe, but in other countries, such as India, there is a renewed focus on expanding competition. For instance, the Indian central bank has mandated that card issuers must issue their cards on more than one network beginning in October 2023.⁷³ The move will end exclusive issuance arrangements between card networks and leading issuers.

Government-backed payments systems cause further fragmentation

After building their sovereign card rails to reduce dominance on the international payment plans, national governments are exploring modernizing consumer payments to make them more convenient and cost-effective for their citizens. More than 70 countries have adopted real-time payments (RTP) rails, with many solutions having government endorsement and support. Public-sector involvement is equally important in addressing inefficiencies in the ~US\$650 billion global remittance market.74 According to the World Bank, the global average cost of sending US\$200 in remittance across borders was as steep as 6.25% of value in Q1 2023, falling disproportionately on the poor.⁷⁵ The average cost of remittance remains more than twice the United Nations Sustainable Development Goals target of 3%, which is to be reached by 2030.76

While hopes for a ubiquitous and efficient cross-border remittance solution are still alive, national governments are initiating bilateral arrangements to make their domestic RTP systems interoperable across borders one country at a time. India and Singapore have linked UPI and PayNow, their respective faster payment rails, to enable quick and low-cost fund transfers.⁷⁷ More recently, India signed a deal with the UAE's Mashreq Bank to use UPI to facilitate foreign remittances from the India diaspora in the region.⁷⁸

Europe also plans to create a unified instant payments solution with its European Payments Initiative, a new payment standard for European consumers and merchants for all types of transactions, including in-store, online, cash withdrawal, and peer-to-peer (P2P).⁷⁹ Set to launch in Belgium, France, and Germany in 2024, this initiative aims to offer a pan-European bank card, digital wallet, and P2P payments solution to consumers for lower friction in cross-border payments.

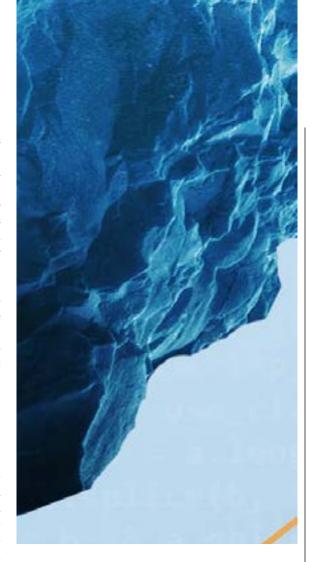
An increase in such bilateral deals and regional initiatives would make the global payments landscape more fragmented and create different regional payment blocs. Yet, encouragingly, we are inching closer to a more efficient cross-border payments system, one payment bloc at a time.

The blurring of product lines and competition for customers' wallets

Traditionally, payments institutions stuck to their respective product lanes, but now they are encroaching into each other's businesses to grow revenues. For instance, card issuers are trying to grab a greater share of account-to-account (A2A) consumer payments, as domestic RTP offerings expand. In the United States, both large and small banks have signed up as early adopters of FedNow, 80 the Federal Reserve's real-time A2A payments rail. Even global card networks are excited about A2A payments and building multi-rail (e.g., cards, P2P, A2A, and crypto) value propositions (figure 10).

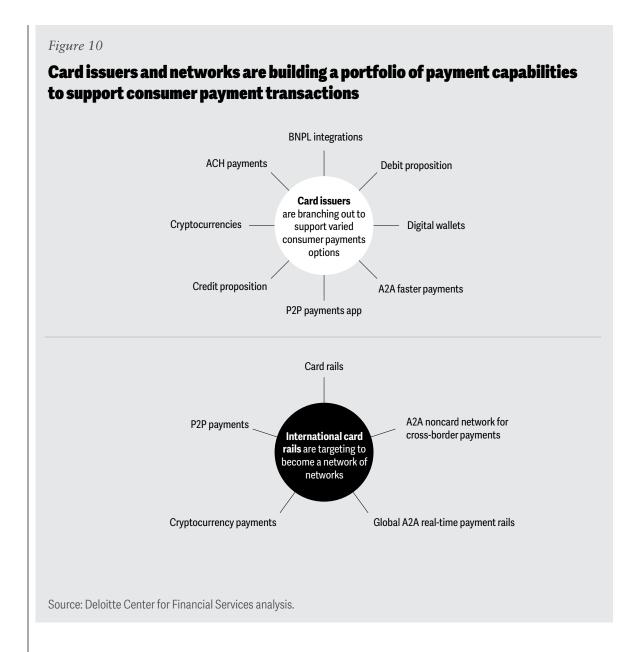
Blockchain-based and fiat currency-backed stablecoins are also entering the world of consumer payments. In some instances, they are further disintermediating the role of traditional payments institutions by facilitating the exchange of money in cross-border remittances, P2P payments, and even customer-to-business retail payments.

Concurrently, digital wallet and BNPL provider have launched card offerings; card issuers, in return, are launching their own digital wallets⁸¹ and integrating BNPL offerings into their portfolios. Issuers are also working with merchants to offer embedded payments, allowing nonfinancial companies to offer integrated payment solutions to their consumers.



These efforts to expand beyond their core offerings suggest card issuers and networks recognize that this interconnected web of payments, products, and rails will only get more complex as we enter 2024. The innovations and competitive actions threaten their transaction revenues, and risk diminishing visibility and ownership of consumer data.

Additionally, open banking around the world is gradually eroding what once was payments incumbents' competitive edge. With open banking, third-party providers, including fintechs, bigtechs, and other software providers, can access customer data in payment providers' systems via APIs, embed payments, and help consumers pay seamlessly within their shopping journeys. This may be the beginning of open data encompassing nonfinancial interactions as well, such as with telecom and utility players. At the same time, ensuring privacy and security of data will be critical. With this in mind, the EU is considering new regulations for the use and access of open data. 82



Going forward, card issuers should continue to deliver value beyond payment transactions to remain competitive. Much of this may boil down to how well they know their customers and their ability to analyze customers' proprietary transactional and alternative datasets to offer more personalized advice, such as spending controls, budgeting advice, and tailored rewards.

Meanwhile, data can be leveraged to help enable value creation, new business models, and new partnerships.

Choosing the right TPPs that consumers trust would allow payments incumbents to alleviate consumers' concerns around security and privacy while also elevating their experience with innovative offerings. This growing role of trust in a world where physical and virtual realities are increasingly converging would solidify the push toward digital identity, making it easier for institutions to authenticate senders and recipients of money across all interactions.

RESPONSIBLE BNPL CREDIT TO ELEVATE CONSUMERS' FINANCIAL WELL-BEING

The proliferation of buy now, pay later (BNPL) in consumer payments has encouraged traditional credit card issuers to include BNPL in their portfolios. An inflationary environment further heightened the financial and operational benefits of BNPL over traditional credit products, driving lending volumes.

While BNPL products have helped many consumers access credit, multiple studies suggest that these consumers may be overspending beyond their means. In a recent Pymnts survey of BNPL users, 70% of respondents admitted they spent more than they would have, had they paid upfront. ⁸³ Also, according to the CFPB, "[BNPL] firms have created their own gateways and digital, app-driven marketplaces, powered by personalized behavioral data, to lure their users into buying more products. "84 Another concern is how BNPL balances seem to be disproportionately accumulated by those heavily dependent on credit for their living. For instance,

BNPL users were more likely to be highly indebted and rely on many other high-interest credit products compared to BNPL nonusers, according to a CFPB analysis (figure 11). While these credit products are intended to help consumers in distress, are they eventually putting them in more distress?

The US regulator's findings also indicate other issues with the BNPL space: inadequate dispute protections compared to credit cards, bigtech-style data surveillance, and slow progress among reporting agencies to develop mature reporting protocols when it comes to BNPL credit.

As a result, regulators globally plan to supervise this industry to bolster consumer protection. In May 2023, Australia announced reforms that recognize BNPL as a credit product under the Credit Act, and mandate that firms comply with responsible lending obligations and hardship requirements.⁸⁵

These regulations, along with institutions' enhanced risk management, reporting to traditional credit bureaus, and emphasis on the short term, small-ticket size credit, could usher in the next wave of BNPL maturity. Card issuers and pure-play BNPL providers can play a significant role to elevate consumers' financial well-being by providing advice and responsible credit. For instance, Klarna launched a credit opt-out feature that offers consumers a choice to opt out of using credit to stay within their budget. ⁸⁶

Moreover, by providing cash flow tools to consolidate multiple payment schedules, delivering insights on budgeting, and supporting customers in achieving financial goals, issuers and BNPL providers in the space can encourage customers to save and spend more effectively. ⁸⁷ In fact, responsible BNPL credit can help unserved and underserved consumers build or rebuild credit. ⁸⁸

Figure 11

Percentage of BNPL users and nonusers with high-interest credit

	BNPL users	BNPL nonusers	Difference
Overdraft	42.8%	17.3%	25.5%*
Payday loan	11.5%	2.9%	8.6%*
Pawn loan	8.6%	1.6%	6.9%*
Auto title loan	7.2%	5.0%	2.1%
Any alternative financial service	20.1%	8.7%	11.5%*
Revolving credit card debt	68.9%	41.6%	27.2%*
Observations	415	1,621	

Notes: Weighted means using sample weights. * Indicates statistical significance at a level of 99%.

Source: MEM survey 2022, Consumer Financial Protection Bureau, "Consumer Use of Buy Now, Pay Later," press release, March 2023.

Traditional acquirers face growing competition from software players and modern acquirers

Merchant acquiring and payments processing providers, which are increasingly operating in a commoditized business, recognize the opportunity with small and midsized businesses (SMBs). A 2022 Credit Suisse study indicated that the US SMB segment comprised under 20% of payment flows but accounted for about 55% of potential revenues for acquirers.⁸⁹

Competition is closely following the money. Software providers, especially working with SMBs, continue to bring payment elements in-house (becoming a "payfac") to own a larger share of the merchant acquiring value chain. 90 Additionally, modern acquirers are scaling both domestically and internationally, and expanding beyond payments to offer embedded finance products to deepen wallet share. For instance, Adyen began offering business checking accounts and business lending options for platforms and market-places in Europe and the United States in late 2022. 91

Caught between competition from software providers and modern acquirers, the incumbent merchant acquirers should step up their defense. Some acquirers may choose to partner with or even acquire software firms that cater to merchants to retain a greater share of the value chain. Meanwhile, competing with modern acquirers would demand superior digital and service capabilities. Incumbent acquirers should not only offer international presence and omnichannel payments acceptance, but also provide a single (or few) integration(s) to businesses to access local processing platforms and payment methods and to acquire support, among other local services.

Fighting synthetic fraud when fake is as good as real

Payment firms are in a global arms race with malicious threat actors, as scams become more sophisticated. Synthetic fraud is one such example that is notoriously difficult to detect. ⁹² Many fraudsters concoct entire personas using a mix of real and fabricated information, which are often pinned to social security numbers.

The proliferation of generative AI is only expected to accelerate the pace at which fraudsters fabricate such synthetic identities to trick consumers and businesses to send payments to their impersonated accounts, commonly referred to as authorized push payments (APP) fraud. In the United Kingdom, Faster Payments service has experienced a 6% YoY increase in APP fraud cases⁹³ on personal accounts, with losses amounting to US\$600.1 million in 2022.⁹⁴



To combat these risks, regulators are stepping in with measures to bolster consumer protection. The UK Payments System Regulator issued new reimbursement requirements in which both the payer and payee's institutions need to fully compensate consumers who are victims of authorized push payment (APP) fraud within Faster Payments.⁹⁵

The stakes are high for payment institutions; they should strengthen their risk-based approaches to minimize or eliminate fraudulent payment requests. They should supercharge their anti-fraud skillsets with generative AI technologies and third-party data to train their authen tication and fraud detection models to predict criminals' next moves and circumvent their advances (figure 12).

Banks should also work more closely with startups and established technology firms to develop multimodal biometric security that evaluates several indicators at once, such as fingerprints, natural speech patterns, and word choice, to increase fraud-detection outcomes and reduce false positives. Collaborating with nonfinancial institutions, such as telecoms, mobile network providers, and regulators, would also add allies that could analyze consumers' nonfinancial data to prevent unauthorized use of identity.

The sword Risks of generative AI	The shield Potential action steps for payment institutions
Authentication risks are evolving with advancements in deepfake technology	Integrate deepfake detection techniques into anti-fraud systems and training
Bad actors can create fraudulent proofs of identification and synthetic IDs expeditiously	Utilize third-party consortium data to enhance detection of synthetic ID schemes
Criminals can create phishing emails and fake messages, calls, or invoices to trick payers	Enhance training programs for employees to detect account takeover, phishing, and business email compromise
The rise of chatbots creates privacy risks, becoming possible avenues for data leaks	Consider data privacy limitations to use of chatbot tools
Gen AI models require model risk management for transparency and explainability	Document a transparency and explainability framework, and test the model regularly



Wealth management: Revamping the advice engine for the future of wealth

PRIORITIES FOR WEALTH MANAGEMENT INSTITUTIONS IN 2024 AND BEYOND

Wealth management business is at the cusp of change. While global wealth continues to build and diversify across regions, recent market volatility has challenged assets under management (AUM) growth. This is prompting wealth managers to redouble their efforts to provide a richer advice experience, which they can then combine with innovative new products. Technology continues to play an important role for wealth firms, especially as institutions come to grips with the need to develop expertise in, and promote the use of, artificial intelligence to drive greater personalization.

Many wealth managers will also look to automate routine tasks through generative Al and advanced data analytics. The push to bring about greater efficiencies and broaden product offerings by acquiring or partnering with third parties will continue to be of interest, although deals may be struck at a slower pace than in previous years.

Intergenerational wealth transfer continues to gather momentum as well. This shift will require advisors to develop even more holistic advice capabilities. Many members of Gen X and other generations are worried about whether their parents will able to attain a comfortable retirement, while those holding the assets are clamoring for broader coaching and advice. Some of these new concerns are driven by greater longevity. Succession planning is also becoming more urgent as the advisor population ages in many parts of the world. The next investor generation will want to sit across the table—physical or virtual—from someone who looks like them and has the same lived experiences they have. Acquiring and developing younger and more diverse talent could challenge growth, however.

Macroeconomic, geopolitical, and regulatory uncertainties have exacerbated costs and margin pressures for global wealth managers, but they remain resilient. Global wealth is likely to surpass US\$500 trillion in 2024, nearly five times the global GDP.96 From a regional perspective, the biggest portion of this wealth is now in Asia-Pacific (~40%), with China accounting for nearly 20%. North America has about 33% of that total, with Europe at 23%.97 Assets under management should grow at an annual pace of around 8% over the next five years,98 more than double the expected growth in global GDP.99 And net financial wealth held by the mass retail market could almost double to US\$22 trillion by 2030.100

Even with these positive expectations, wealth managers should continue to evaluate their competitive strengths and operating models to support the agility needed in the future. What changes should they consider in their operating models to capitalize on the

growth prospects in 2024 and beyond? How can they differentiate themselves to create a winning franchise?

Honing the advice experience

With client needs and markets shifting, wealth managers cannot rely on bull markets for increased assets under management. In the previous decade, more than 70% of the growth in AUM was the result of market performance, with only the remaining 30% coming from organic growth. 101 Investor satisfaction is a function of returns. For instance, US investor satisfaction with full-service investment advisors tumbled 17 points in 2022, coinciding with a 20% drop in the S&P 500 in the same period. 102 But wealth managers have little control over market performance, so they should focus on improving customer satisfaction through other means. These include offering advice beyond invest

ments and supporting clients through their life journey. Unfortunately, only 11% of advisors currently take these additional steps. 103

Further, the shift from accumulation to decumulation among those holding the greatest share of assets continues. With more baby boomers retiring every day, the boundaries of advice continue to not only expand across retirement income, but also include *health insurance*, *longevity*, and even *dementia* care planning. For good reason: A recent survey showed that 80% of Americans age 50 and older were concerned about funding their own health care costs in retirement. The most impactful advice propositions will likely emerge around moments that matter, by integrating both financial and nonfinancial assets and liabilities.

Moreover, a recent Deloitte survey of 300 affluent Swiss banking clients revealed that they want it all: superior, omnichannel wealth management experiences at lower costs. Self-service platforms remain a popular approach to serve not just the affluent, but also young, first-time investors with lower investable assets. Even so, the ability for wealth managers to support moments that impact their clients' life and wealth journeys can be a differentiator. A good place to start is by using data and analytics to create hyperpersonalization based on an efficient segmentation strategy.

To best serve these younger generations, firms should hire more young talent. Unfortunately, about 37% of advisors plan to retire during the next decade, but 72% of newcomers (those with three or fewer years of advisory experience) fail to stay in the industry. ¹⁰⁶ Wealth managers should adjust their recruitment policies to focus on

diversity and provide sufficient growth opportunities to budding advisors to maximize success. UBS, for example, is diversifying its advisor pool in terms of age and race to better mirror younger generations.¹⁰⁷

Retooling platforms with a focus on cost takeout and deepening client relationships

Wealth managers continue to invest in technology, but with a greater focus on cost rationalization than before. Indeed, 68% of wealth managers surveyed consider optimizing cost-to-income ratio and aiding regulatory compliance as their top, near-term business challenges. 108 Consequently, there's a greater inclination to look to third parties: In a recent survey of global wealth management and private banking clients, 72% of respondents said they plan to collaborate with fintechs, broker-dealers, and custodians to modernize their technology infrastructure and free up internal resources and time to focus on strategically important products and services that enhance client experience. 109

Firms will invest in forming clear data management strategies to better use new forms of data and artificial intelligence. This will help them generate richer insights while creating agile and scalable operations to keep pace with future advice models. The spend on cloud services for wealth management platforms, including more wealth management-specific industry cloud solutions, could grow by more than US\$10 billion over the next 10 years. ¹¹⁰ Firms can start today by undertaking small-scale transformation to help create quick wins that can build confidence and trust on the way to enabling faster time to market and operational efficiency. Perpetual know your customer (KYC), for instance, can help provide a more

complete, real-time risk picture, but its success depends on the unification and quality of firmwide data.¹¹¹ But security concerns (e.g., cybersecurity, data privacy, deepfakes, and hallucinations) loom, making it vital to instill an AI trust framework.¹¹² Regulators are also becoming increasingly focused on conflicts of interest. In July, the Securities and Exchange Commission (SEC) proposed new rules requiring firms to keep investors' best interests in mind when using AI.¹¹³

Next, firms are providing advisors with integrated omnichannel solutions that support new on-demand conversations. Engagement and collaboration tools like live chat, secure messenger, and cobrowsing can free them up to focus on higher-value activities and even increase the number of clients served.

Generative AI is starting to be used in fraud detection, anti-money laundering (AML) client communication and marketing, product fit assessment, memo writing, and report generation based on research. 114 Deutsche Bank is deploying deep learning to analyze client portfolios for concentration risk and match individual clients with suitable funds, bonds, or shares. 115 Meanwhile, JPMorgan has recently applied to trademark IndexGPT, which can analyze and select securities based on client preferences. 116

Bridging the offerings gap

While exchange-traded funds remain the preferred investment vehicle for clients of all sizes, with more than US\$600 billion in net flows in 2022, direct indexing and alternative investments continue to gain momentum. In fact, alternative investments could increase from 11% of consumer household investable assets to 20% by 2026 and generate an additional US\$11 trillion in incremental net flows for wealth management firms. 117 Ultra-high-networth investors expect to be overweighted on private equity, the largest percentage of any of the alternative asset classes, followed by hedge funds, venture capital, and private debt. 118 Meanwhile, extreme price volatility and the recent turmoil in crypto markets seem to have cooled demand for digital assets.



With private assets becoming more mainstream as regulations ease, wealth managers could offer products to clients who are lower on the asset spectrum. For example, Luxembourg's parliament recently passed a bill that lowers the minimum investment threshold for alternative funds by about US\$27,000 to US\$108,500.¹¹⁹ The United States is also relaxing rules that govern "accredited investor" definitions to allow for broader retail participation in alternative products.¹²⁰ Wealth managers are looking to acquire these capabilities. Recently, MUFG announced its intention to buy alternative asset firms to meet client demand.¹²¹ Training advisors is crucial since advisors typically do not recommend products with which they are not familiar.¹²²

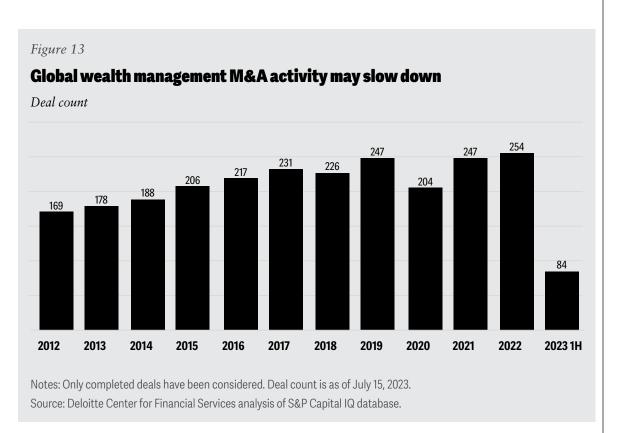
Meanwhile, just 17% of advisors surveyed in the United States are citing ESG factors as a consideration in their clients' investment processes, the lowest in five years. ¹²³This could be a function of profit-taking,

portfolio rebalancing, underperformance, or, perhaps, a lack of trust. In a Deloitte survey of about 1,000 retail investors in the United Kingdom, 69% said they have or would refrain from investing in a financial asset if they did not trust the ESG investment framework used by their provider. 124

Industry estimates suggest ESG assets could reach U\$\$50 trillion by 2025. 125 Firms should, therefore, continue to support advisors with tools that aid client conversations around values-based investing. New regulations, such as the European Commission's proposed Green Claims Directive, which would require companies to back environmental claims with a comprehensive assessment, 126 along with the SEC's new rules for company disclosures on ESG policies, 127 would require firms to put guardrails in place to avert the perception of greenwashing. These may include third-party certifications and compliance checks.

Wealth management M&A to slow down

Owing to the attractiveness of the segment, insurance companies, hedge funds, and others continue to consider acquisitions in this space. ¹²⁸ Globally, wealth managers closed 254 deals last year (figure 13), the highest in a decade, with North America accounting for 70% of the deals, followed by Europe (21%) and Asia-Pacific (6%). Driven by a buy-and-build strategy, private equity-backed firms Mercer Global Advisors and Wealth Enhancement Group, acquired 18 and 11 companies, respectively, last year. ¹²⁹ The primary drivers for M&A activity are economies of scale, cost reduction, new services, and talent acquisition. However, the number of deals are down by 26% YoY to 84 in the first half of 2023. This slower pace may continue even in 2024 as macroeconomic conditions weigh on buyer sentiment.





Corporate and transaction banking: Enabling efficient money flows through digitization

PRIORITIES FOR CORPORATE AND TRANSACTION BANKS IN 2024 AND BEYOND¹³⁰

Corporate and transaction banking businesses are looking at a confluence of priorities. While commercial loan growth held steady for most of last year and the start of 2023, banks are looking at a more muted outlook for the next several quarters along with tightening lending standards and the increasing risk of CRE loan portfolios. De-risking is also on the minds of many corporate clients, who seek more optionality with respect to their banking relationships.

There is enormous pressure for banks to pick up the pace of digitization to elevate customer experience and strengthen relationships, while also managing costs. Digital solutions in loan origination and underwriting, cash management, B2B payments, trade finance, and asset servicing should help institutions unlock new efficiencies and address customers' pain points.

Growth opportunities are emerging, however. From digital asset custody to green transition strategy advice, corporate bankers should remain agile to support their clients' more complex needs. They should work constructively with borrowers and champion an advice-based model to strengthen the personal touch, while also empowering clients with a self-service model to address their direct, simple needs.

The current state of lending to corporates and SMBs has shown strength globally despite the economic challenges in the past year. US banks' outstanding exposure of C&I loans rose 6% YoY to US\$2.8 trillion in May 2023.¹³¹ At the same time, their outstanding exposure to total CRE loans rose 11% YoY to US\$2.9 trillion,¹³² much of it held by banks with less than US\$100 billion in assets.

Bank lending to corporates in the Eurozone grew 3% YoY to US\$6.4 trillion in June 2023. ¹³³ European banks' NIMs have also benefited from lower deposit costs, and institutions continue to demonstrate cost discipline. ¹³⁴

However, a less favorable economic outlook, lower risk tolerance, and the desire to shore up liquidity positions have prompted many banks to tighten their credit to corporate borrowers. In Q2 2023, 68% and 51% of surveyed US banks reported tighter standards for CRE and C&I loans, respectively.¹³⁵ Meanwhile, only 30%

of European banks reported tighter credit standards for commercial real estate in H1 2023, compared to 25% in H2 2022. 136

The office CRE debt market continues to show signs of weakness due to declining values and rising vacancy rates, particularly in the United States. ¹³⁷ Of the total US office property loans maturing in 2024 that are held by banks and with investors as commercial mortgage-backed securities (CMBS), 17.4% are classified as "troubled" or "potentially troubled/watchlist" as of August 2023. This figure stands at 10.5% for retail property loans and 8.5% for multifamily property loans. ¹³⁸

As a result, regulatory scrutiny is expected to increase for banks with high exposure to the CRE market, especially small banks with assets under US\$10 billion. A Federal Reserve analysis indicated that small banks' CRE loans as a percentage of risk-based capital stood at 357% in Q1 2023, compared to 131% for the overall banking

industry and 300% regulatory threshold. ¹³⁹ SMBs with heavy CRE exposure could become M&A targets in 2024 as they seek to shore up their balance sheets. Meanwhile, regulators have already encouraged banks to work "constructively" with CRE borrowers by offering loan accommodations and extending repayment arrangements. ¹⁴⁰

On the deposits side, corporate clients are reducing their bank concentration and diversifying their deposits across multiple banks. Banks' funding costs have increased since they are paying higher rates to corporate depositors.

With this backdrop, what should corporate banks do to maintain profitable lending margins in 2024 and beyond? Given the constraints on NIM growth, how can they strengthen customer relationships to drive fee-based business with corporate and institutional clients?

Balancing risk, efficiency, and relationships in a cautious lending environment

Corporate banks will face a unique set of challenges going into 2024. With the global economy recovering at a divergent pace and the ongoing uncertainties around interest rate trajectories, revenue growth is likely to be challenged, especially in the United States. In Europe, the mounting political pressure to offer higher deposit rates to customers is beginning to disincentivize investors.¹⁴¹

In such a macroeconomic environment, banks should strengthen their risk management with alternative data (such as trading data, bank transaction data and repayment history, customer ratings and reviews on different platforms, accounts receivable, and cash-balance data in real time). Refining customer segmentation models around structural archetypes (e.g., capital-intensive businesses, transaction-heavy businesses, and cash flow businesses, among others) should allow for more tailored credit approval processes and risk monitoring.

Concurrently, there is enormous pressure for banks to pick up the pace of digitization while managing costs. In particular, many banks are working to determine how best to use AI/machine learning (ML) and APIs to improve risk selection and achieve operating efficiencies in the loan value chain, especially in the SMB loan portfolio. For instance, UK banks have emerged as trailblazers in SMB lending by fully automating loans up to US\$100,000.¹⁴²

Banks are also looking at how to use embedded finance as a distribution channel to increase access, especially to more SMB customers. Embedding real-time payments, deposit accounts, and capital loans into corporate customers' existing ERP and accounting systems makes it more efficient for businesses to access financial services in a unified ecosystem without needing to directly interact with banks.

While product and loan origination has seen a lot of digital action, these technologies have not yet unlocked efficiencies in loan servicing (figure 14). Standard, day-to-day loan servicing could be automated, providing a seamless customer experience and omnichannel support. Digital systems can also autogenerate workflow notices on actions required by corporate clients. This would free up relationship bankers to focus on sales, customer service, managing risks, and handling true exceptions.

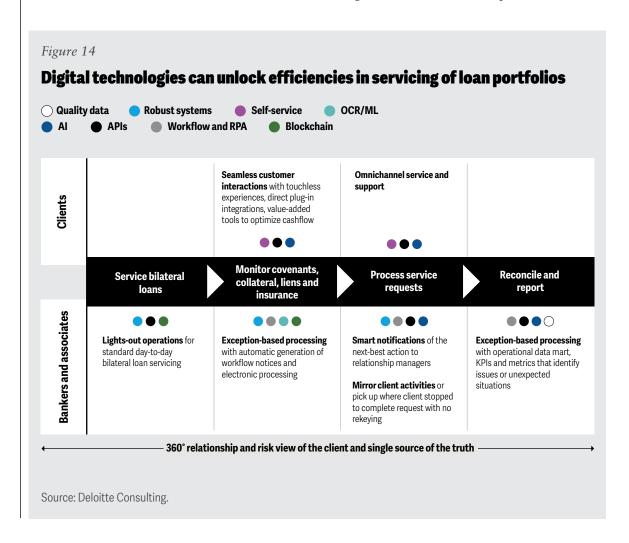
Doing so will also elevate relationship bankers' role; they can focus more time addressing the needs of the clients and reinforcing the personal touch. Adopting a solution mindset and honing industry specialization should empower relationship bankers to champion an advice-based model. Bankers who complement their industry specialization with tech proficiency and cross-industry fluency are likely to forge stronger client relationships.

Corporate banking units should aim to build agile staffing models to support customers' pain points, for instance, by becoming trusted advisors in their climate transition strategy. In addition to upskilling existing talent pools on honing solution mindset and industry specialization, banks will need to rejigger their workforce and elevate commercial bankers' profiles to make it more attractive for young talent to participate in and champion this cultural change.

Empowering corporate treasurers with new tools to better manage finances

Events leading up to the US bank failures in early 2023 put many corporate treasurers, especially clients of US regional banks, under extreme stress. Fearing contagion, treasurers worried if their deposits were safe, and how their payroll processing and payments would be negatively impacted. Corporate treasurers in Europe were also on high alert as the collapse of Credit Suisse unfolded.

This experience only reinforced the importance of capital preservation. Boards of directors also recognize the importance. According to Deloitte's 2022 Global Treasury survey of corporate executives, 96% of respondents say their boards or chief financial officers view enhancing liquidity risk management as a critical or important mandate.¹⁴³

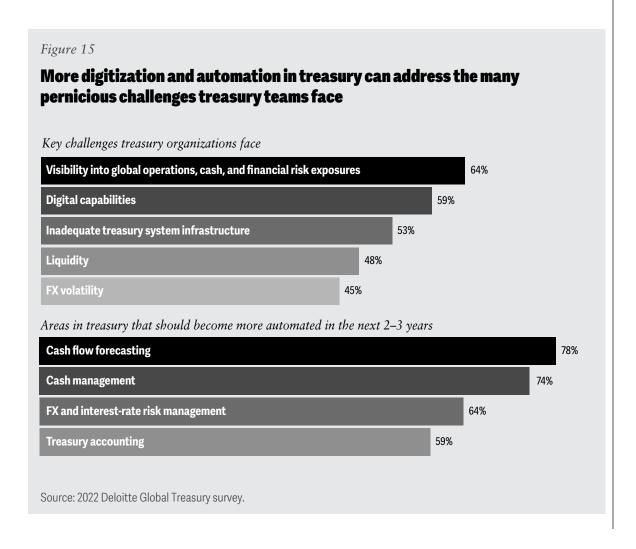


There is also anecdotal evidence of "de-risking" by corporate clients, who seem quite intent on broadening the number of banking relationships. 144 It is not uncommon, especially for large corporates, to have 10 or more banking relationships. This may be true for SMBs as well.

The net result of such bank diversification by corporate clients has implications on both sides. For banks, share of wallet could shrink as competition for deposits grows. This is why superior transaction banking services would be one of the strongest levers to attract corporate deposits and increase fee income. Looking from the lens of corporate customers, the flip side of diversification is higher fragmentation. It may be harder for corporate treasurers to attract special attention and get a global view of cash pools across different subsidiaries and businesses to manage liquidity. In the past, treasurers benefited from concentrated deposit portfolios, but it is not as straightforward now to gain efficiencies from cash sweeping and rate arbitrage.

Nearly two-thirds of executives responding to Deloitte's Treasury survey admit that visibility into global cash pools and risk exposures is a challenge (figure 15). Similarly, 83% of respondents said they lack visibility into FX exposures and unreliable forecasts are the biggest challenges they face in managing FX risks. It appears that even cash flow forecasting misses the accuracy mark.

Corporate treasurers are always looking for digital and automated solutions to help make better and quicker decisions. Advanced analytics and AI should allow banks to build agile cash flow forecasting capabilities and allow customers to see consolidated views from multiple accounts in real time through APIs. 145 As an example, Citi Treasury and Trade Solutions expanded its partnership with Treasury Intelligence Solutions to offer its clients automated workflows to predict their cash positions and working capital needs. 146



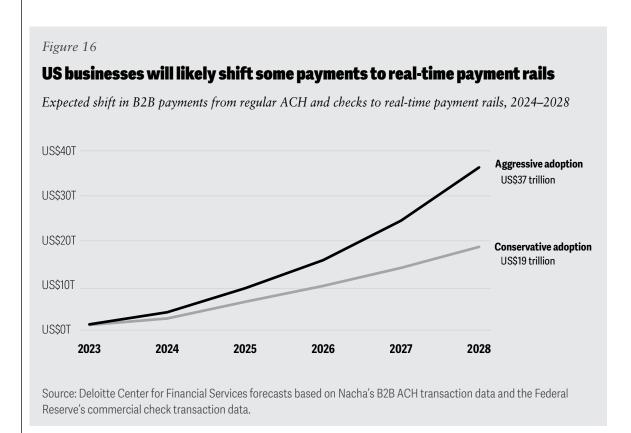
Modernizing B2B payments for efficiency and transparency

For decades, trillions in B2B payments, primarily in checks, have been fraught with inefficiencies. In the United States alone, check payments accounted for US\$8.9 trillion in 2022. ¹⁴⁷ Meanwhile, ACH payments amounted to US\$52.5 trillion in 2022 (increasing 107% over the last 10 years), most of which were settled the same day or the next business day. ¹⁴⁸

But, slowly, digitization in the B2B space is accelerating. Payment networks dominant in the consumer payments space are expanding beyond the "card" rails to grow their B2B payments volumes. For instance, Visa B2B Connect, the card network's distributed

ledger-based, account-to-account, cross-border payments network, has enrolled more than 30 banks and is facilitating payment flows across 90 countries.¹⁴⁹

Meanwhile, initiatives to modernize B2B payments with RTP are expanding across different countries. After some delay, FedNow is a reality in the United States, although adoption is not yet widespread. In a conservative growth scenario, Deloitte predicts that real-time payments could replace US\$2.7 trillion in ACH and check-based B2B payments in the United States in 2024 (figure 16). In an aggressive growth scenario, that number could jump to US\$4.1 trillion (refer to, "Fasten your seat belts: Real-time, business-to-business payments are preparing for takeoff," for more details).



Despite the overall general enthusiasm, however, some banking institutions may be conflicted about promoting RTP, given the risks. While faster payments benefit clients, it would also risk banks' float income in today's high-rate environment.

One incentive for embracing the RTP phenomenon is the early-mover advantage—the chance to win a bigger slice of corporate clients' payments transactions. Additionally, real-time payments would add more transparency to the fragmented and unpredictable B2B payments landscape. Many RTP systems, including FedNow, use ISO 20022 messaging standards that enable two-way communication, such as "request for payment," "request for information," and "confirmation of payment." These standards should allow banks to overlay richer insights and value-added services and help modernize B2B transactions end to end, such as automated matching of purchase orders to invoices, virtual account services, e-invoices for payment initiation, and account reconciliation.

Banks should prepare to support direct integration of transaction data into clients' enterprise resource planning and other back-office systems to offer real-time or near real-time insights on payments transactions and liquidity positions.

Challenges to accelerating the digitization of trade finance

Trade finance is another area that is long overdue for modernization, particularly given how important trade is for the global economy. Domestic and cross-border trade credit comprised more than 40% of the world GDP, or US\$35 trillion in 2022.¹⁵⁰

But global trade has a US\$2 trillion financing gap, especially in the emerging economies, among SMBs, and womenled businesses, according to Asian Development Bank. ¹⁵¹ While this may seem like a rich opportunity for banks, particularly in developing markets, banks often have inadequate data to inform trade financing arrangements. In several instances, the complexity and costs of complying with AML and KYC regulations make

many banks selective about the loans they approve.¹⁵² In particular, SMBs tend to face high rejection rates and are often asked to put in valuable collateral and third-party guarantees in response to banks' de-risking efforts.

Banks could address this challenge by building credit models based on alternative data, as in the case of SMB loans discussed earlier. Stronger legal enforceability, especially around collateral, should provide more security to banks and allow them to ease access to trade finance, at least to some degree.

Digitization of trade finance should make some of these underwriting processes more efficient. For instance, digital data validation with AI could help with KYC/AML checks. Some banks have also been exploring blockchain to replace paper invoices and to identify if these trades are financed by other financial institutions. However, standardization of trade and finance terms remain critical challenges, along with the lack of sophisticated systems at SMBs to provide visibility of their trades for effective blockchain integration.

Successful digitization in trade finance also depends on digitization of trade. To date, companies across many countries still need to present a paper bill of lading¹⁵³ at shipping ports to unload their containers on the dock.

Much of international trade has remained manual, not for the lack of digital technologies, but due to the lack of uniformity in legal frameworks. Fortunately, new regulations could propel the much-awaited transformation in trade. The International Chamber of Commerce (ICC) laid out a road map for digital trade in financial services in 2020, and the UN Commission on International Trade is leading a new Model Law on Electronic Records (MLETR) to recognize the legal validity of electronic trade records. 154 Taking inspiration, the United Kingdom became the first G7 country to sign the Electronic Trade Documents Act into law in July 2023, which recognizes electronic documents as the same legal outcome as paper documents. 155 The new regulation is expected to be a big win for digital trade, not just in the country but globally. 156

BOLSTERING REVENUE GROWTH IN ASSET SERVICING

Asset servicing revenues have remained pressured in the first half of 2023, mimicking the constrained revenue growth in asset management in 2023. With many asset management clients expecting their assets under management (AUM) to decline or remain flat year over year, servicing revenues are not expected to deviate from this trend.

To grow revenues, some back-office and middle-office-focused firms should continue to move up the value chain and strengthen their front-office capabilities. CACEIS, a subsidiary of Crédit Agricole group and Santander, acquired Royal Bank of Canada's European asset servicing business to expand its front-to-back capabilities.¹⁵⁸

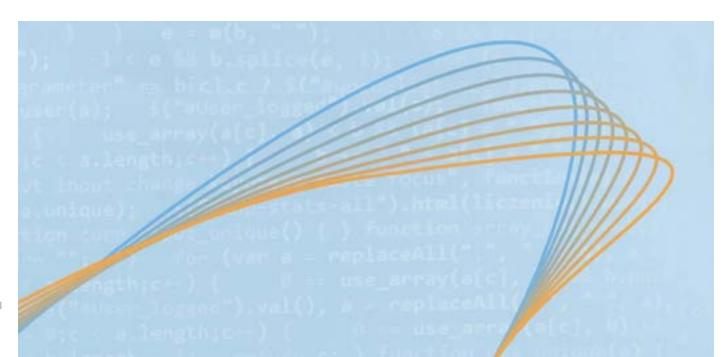
Digital assets custody is another emerging topline growth opportunity in the asset servicing industry, one that is marked by high price competition.

The recent collapse of crypto exchanges has underscored the importance of having regulated crypto custodians. European banks are ahead of their US competitors in the digital assets custody game, in part due to a proactive regulatory stance to bolster investor protection. Is In July 2023, Société Générale became the first bank to get a digital asset service provider license to operate as a crypto custodian and trading desk in France.

Transition to T+1 settlement in the United States, Canada, and Mexico by May 2024 will likely consume most of custodians' operational bandwidth, as only about one-third of American and Canadian custodians in a Citibank survey were ready for T+1 transition. Custodians should participate in industrywide testing, which began in August 2023, to iron out system and process deficiencies.

Staffing models would likely change to align with a follow-the-sun approach, especially for custodians outside North America. Firms should prioritize automation to gain straight-through processing efficiencies, which could also reduce the quantum of trade exceptions requiring a resolution and ultimately lower the rate of settlement fails. But at the same time, they should build plans to deal with settlement failures and prepare their teams to deal with any regulatory requirements occurring due to settlement failures.

Custodians would also need to prepare their clients for this transition. While larger institutions may be ready, SMB clients may require help to modernize their systems to send instructions on a timely basis or self-affirm by the required time.



2024 banking and capital markets outlook

Investment banking and capital markets: Rejiggering business models and leading with cutting-edge technology



PRIORITIES FOR INVESTMENT BANKING AND CAPITAL MARKETS FIRMS IN 2024 AND BEYOND

Investment banking businesses will experience modest growth in 2024. As the global economic recovery continues to build steam, restructuring services will be highly sought after, particularly in the CRE and technology sectors. As a result, refinancing, sustainability-led initiatives, and event-driven acquisitions should boost issuances and advisory revenue. But the lack of megadeals and a languishing M&A market could shift competitive dynamics from large US institutions to smaller European banks and boutiques. Meanwhile, the

trading arm could see limited growth opportunities as lower volatility continues to impair FICC and equities trading income. Overall, scale will remain important and will benefit larger players who will continue to dominate certain markets. Others will be forced to specialize more than ever and make clear strategic choices.

The investment banking business should selectively experiment with generative AI to boost productivity in front and back offices. Since the buy side is also

investing in AI technologies, large investment banks must fine-tune their input data to differentiate their machine learning models. They may also need to vie for data scientists and AI specialists in an undersupplied talent pool and consider how large language models (LLMs) can cut down on labor costs. Finally, investment banks have a unique opportunity to support climate innovation by offering products and infrastructure that build more credibility into nascent carbon markets.

After a year of disappointing performance, investment banking and capital markets businesses should experience modest growth in 2024. But this will come with some new challenges, including the need to modernize digital infrastructure, allocate capital more judiciously, and ensure the full promise of generative AI is realized.

Trading has been a major revenue producer for banks in the last several years, thanks to higher market volatility. Global investment banks pulled in an average of US\$150B in FICC and equities revenues in the last three years, as clients hedged foreign exchange, interest rate, and energy price exposures. ¹⁶² But as volatility declined to prepandemic levels, FICC and equities trading income in the first half of 2023 were down meaningfully. ¹⁶³ Underwriting and advisory businesses, on the other hand, are beginning to show signs of improvement.

Given the current state of investment banking and capital markets, what can we expect going forward in 2024? And how should executives adapt to the new competitive dynamics, the proliferation of AI, and evolving talent models, even as cost and capital pressures increase?

Revival in demand for advisory services

The momentum within the underwriting and advisory business should continue into the next year, driven by stronger market sentiment, lower volatility, and more attractive valuations—albeit at a slow and varying pace. The rising cost of debt is also expected to drive demand for IPOs and other equity issuances. The M&A deal pipeline also continues to build up. Excess corporate cash and private equity dry powder should also result in a stronger recovery in M&A fees. Additionally,

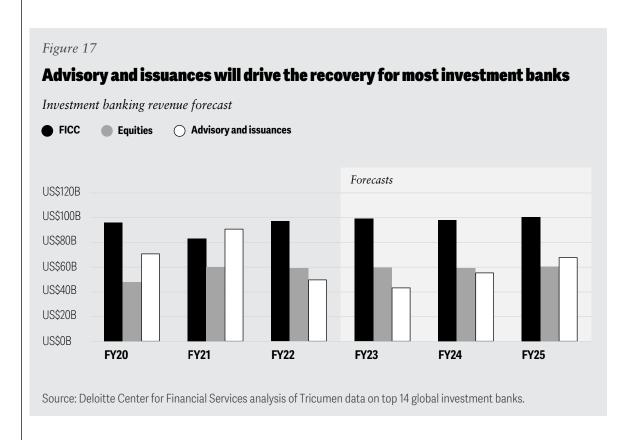
as companies adapt to shifts in the global economy, restructuring services are expected to remain in high demand, especially in CRE and technology sectors where clients will look to navigate through unchartered territory. Much of the 2024 recovery will be triggered by a combination of refinancing, sustainability-led initiatives, and event-driven acquisitions. For these reasons, revenue from issuances and advisory is expected to outpace the trading division in the next year (figure 17).¹⁶⁴ More stable monetary policies and lower market volatility in many regions should crimp trading revenue growth. Nevertheless, investment banking revenues may not reach the highs of 2021 in the near term.

In the United States, one could expect higher deal and issuance activity due to greater valuation certainty as rates become more stable, the need for new funding, and a backlog of deals, particularly in the technology, consumer, and health care industries. ¹⁶⁵ However, one can expect a subdued environment in Europe in the short term, given the geopolitical

uncertainties as well as lagging recovery in the region. In contrast, APAC region should experience stronger growth in underwriting and advisory, fueled by rising competition in the technology and fintech sectors. The Middle East is another bright spot for listings where several businesses have launched their flotations.

Shifting competitive dynamics

The share of big investment banks in the global advisory fee pool has gone up since the financial crisis, with US banks leading the charge. However, the top 10 global banks experienced a drop in market share recently—from 41% in 2020 to 35% in 2022. 166 Lack of megadeals and a less vibrant global M&A market may have contributed to this decline. But whether they can recapture their lost market share or whether European players stage a comeback and boutique firms continue to nip away at large-value deals is yet to be seen.



The bulge bracket US investment banks should continue to lead the market. Scale has helped these banks grow market share and earn their share of revenues in a challenging environment. Their higher capital levels should help them weather the ongoing margin squeeze, as they invest in emerging technologies and retain high-performing bankers.

However, there could be a resurgence among European banks as they focus on specialized services globally. In anticipation of deal flow revivals, some European players are looking to acquire small boutique firms, particularly those that operate in the technology and energy sectors. For instance, Italy's Mediobanca has agreed to buy London-based Arma Partners to capture growing corporate demand for advisory services on tech deals. 167 The prospects for European banks in the US market look more challenging. Capital constraints, lack of scale, and perhaps not enough service differentiation can limit the potential of European banks. Strategic partnerships and hiring and retaining star talent in selective areas will be key to expanding their presence, but this will come at a significant cost. APAC banks are also looking at a larger share of the global fee pool, especially with rising M&A and capital market opportunities in China and India.

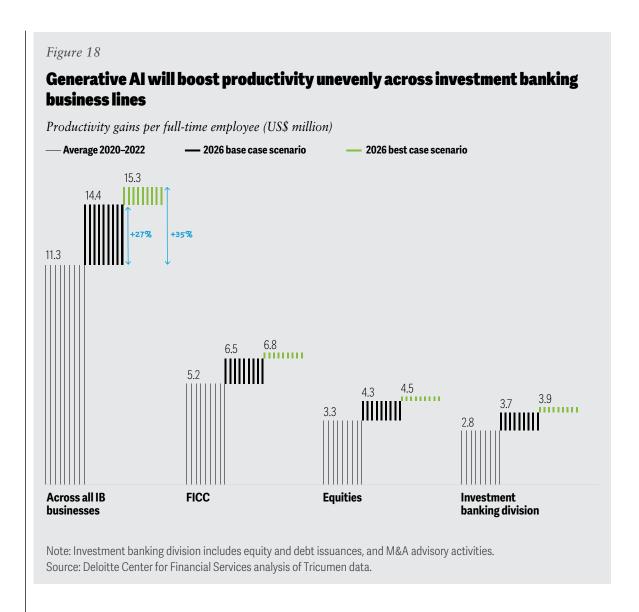
Some boutique firms, on the other hand, can be expected to fight hard and expand their offerings. They have performed well in the current environment-especially in the tightly contested middle-market M&A. US boutique firms, for instance, featured in most of the high-valued deals in the first half of 2023. Centerview Partners was one of the top M&A advisors by value. 168 What they lack in capital, they make up in repeat business, specialized services, and strong talent. Even as deals dried up, they continue to rejigger talent and, in some cases, even expand into new services. Lazard, for instance, is looking to expand into underwriting as it looks for new growth.¹⁶⁹ The relatively smaller size also helps them manage expenses more efficiently and remain competitive to nip off revenue spillover from bulge bracket banks.

Private capital is another growing competitive threat to banks, from lending to trading activities. US private markets raised more than US\$250 billion in new capital in 2022, substantially higher than IPOs.¹⁷⁰ These days, private capital is not limited to small specialty deals. Even as public market issuances pick up in 2024, the attraction of higher valuations, higher rates, and the rising demand for sustainable finance will likely push the demand for private capital. There may also be increased buyout activity in 2024.

One should also expect greater penetration by large hedge funds to attract talent from traditional investment banks as well as boost presence in commodities trading. This will be particularly challenging for smaller, less diversified players. Investment banks should look at strong partnerships with other private-market participants and hedge funds to drive growth and innovation and search for potential new revenue streams to their clients.

Generative AI as a productivity tool in the front office

Artificial intelligence is not new to investment banking. Machine learning/deep learning algorithms and natural language processing techniques have been widely used for years to help automate trading, modernize risk management, and conduct investment research. Multiple investment banks have begun implementing use cases for generative AI, which could well be one of the most transformative technologies for the industry. Our analysis suggests that the use of generative AI can boost productivity for front-office employees by as much as 27%-35% by 2026, after adjusting for inflation.¹⁷¹ (Please refer to this Unleashing a new era of productivity in investment banking through the power of generative AI_for more details.) This translates to an additional revenue of US\$3 million to US\$4 million per front-office employee (figure 18).



Generative AI also may alter the dynamics with buy-side clients. As clients embrace this technology, the outputs they are able to generate with greater efficiencies may reduce dependency on the sell side. Some clients may want to independently develop their own value streams and turn to investment banks only for the most high-value-adding services. AI may further democratize finance, reduce barriers to entry, and reduce market inefficiencies, leading to shrunken spreads. The input data in such models could be the differentiating factor. But because investments needed to develop such data models and LLMs are substantial, this technology may also widen

the gap among market participants and may put smaller, boutique firms at a disadvantage. Scale and optimal capital allocation will become even more critical. Banks should focus on areas that have the most potential for transformation through generative AI.

Such an infusion of AI will most likely come with potential legal, reputational, and other operational risks. Banks should look for able partners in fintechs and vendors. continuously apprise themselves of the tool's evolving efficacy and introduce it to their value chain in a piecemeal fashion.

Investing in technology talent and augmenting investment bankers' tech skills

Investment banks have had to pivot their talent strategies from a hiring spree in 2021 to workforce reduction plans in 2023. From bulge bracket players to boutique firms, several investment banks have reduced their workforce recently. Some banks are also hardening their stance on return-to-office policies; others are rejiggering their compensation pools.¹⁷²

However, these strategies are not uniform across the spectrum. Layoffs and new compensation policies at large banks are affording boutiques and smaller players to attract this talent. Banks in the APAC region are also planning to increase headcounts as they foresee a stronger deal pipeline. Daiwa Securities,¹⁷³ for instance, plans to hire more staff, and buy boutique firms as it accelerates its global push.

Despite the efforts to contain talent costs, the war for talent in technology remains a pressure point. Given the market demands and the need to keep pace with technology for competitive differentiation, investment banks have little choice but to vie for the brightest—and the most expensive—data scientists and AI specialists. The demand for these skills has outpaced supply. Recent layoffs in the tech sector may have provided some relief on this front, but looking ahead, most employers, including banks, will need to pay dearly for such unique talent.

However, one potential avenue to cut back on talent costs in the technology area is coding. The stunning capabilities LLMs have in producing and correcting code should be an opportunity to save labor costs in this area. Also, the trend toward low-code/no-code environments may help obviate the need for programming talent, especially at the junior levels.

Also, given the rapid pace of technological changes, investment bankers should continue becoming more tech-savvy, especially as innovations from and within artificial intelligence expand. Corporate and buy side will want to know how such shifts could impact their companies and industry. The rising trend of industry convergence will likely also impact M&A synergies. Dealmakers should possess strong tech and cross-industry fluency.

Pursuing innovation amid new capital constraints

New regulatory requirements regarding capital and liquidity will be another constraint for investment banks—especially their capital-intensive trading arms. The additional capital required in the recent Basel III "endgame" rules for banks above US\$100B in assets¹⁷⁴ should impact capital allocation to prop trading, technology investment, and plans for market expansion. Furthermore, these rules could materially constrain large banks' ability to support capital markets activities as counterparties in financial derivatives, which could further elevate the cost of capital for the end users as well.¹⁷⁵

Also, the move to T+1 settlement in several countries, including the United States, will require banks to prepare for potential increases in settlement risks and enhance other risk management features. Investment banks must also continue to monitor and prepare for regulatory changes for crypto assets. Financial Stability Board (FSB) recently launched a global framework for the oversight and regulation for crypto activities, building on the notion that the same activities with similar risks should have similar regulations.¹⁷⁶

Focus on cost discipline will be another differentiating factor. Recently, investment banks' expenses have grown, largely due to growth in technology support staff, higher fixed compensation, as well as rising costs of key office locations. There are some signs of improvement, though. For instance, the proposed move to abolish the banker bonus cap for Material Risk Taker (MRT) employees in the United Kingdom may help banks operating there bring down their current compensation structures.¹⁷⁷ Technology investments made in the last few years are also paying off through additional efficiencies in the front office and back office.

At the same time, investment banks will need to continue financing and supporting climate innovation. Green finance and carbon markets are ripe for investment banks to step up their role. In fact, some banks are investing in platforms that will ease clients' participation in carbon credits. ¹⁷⁸ In addition to providing liquidity, investment banks should develop a more robust trade infrastructure buttressed by reference and market data, and efficient settlement platforms. They also must work to securitize carbon credits and develop tradeable instruments that provide price signals to other entities.



Market infrastructure: Reinventing business models and becoming more indispensable to clients

PRIORITIES FOR MARKET INFRASTRUCTURE FIRMS IN 2024 AND BEYOND

Traditional exchanges are grappling with intensifying competition, from niche players to competitors from other regions. Some new rivals will be specialist exchanges that are focused on sustainability, corporate governance, and price transparency. Others could come from regions with fast-growing economies and increasing trading volumes. In fact, it is expected that the market cap of exchanges in emerging markets will exceed that of US exchanges by 2030. Canadian and Australian exchanges are

also expected to take market share away from peers in Japan and the European Union.

Going forward, the exchanges that have long served as go-to trading hubs will need to attract global investors with dual listings and support from other members of the trading ecosystem. They should also improve how data is packaged and delivered, such as with flexible feeds and mobile solutions that customers can plug into their analytical

models. Migrating markets to the cloud will also be imperative to reducing latency, executing orders faster, and monitoring transactions across market participants. Ancillary businesses will become more important to creating enduring relationships with customers. As a result, large exchanges should continue expanding services that cater to corporate clients, such as risk monitoring, carbon trading, and infrastructure for digital securities.

Traditional exchanges globally are at a critical juncture. Strategic choices they make now could determine whether they continue to grow—or even retain—market share and garner higher profits. Over the next several years, profitability will be pressured by intensifying competition from niche exchanges, the growth of trading venues in emerging markets, and increasing demand for diversified services from clients. At the same time, exchanges have a unique opportunity to deepen their value proposition to customers by improving listing services and migrating markets to the cloud.

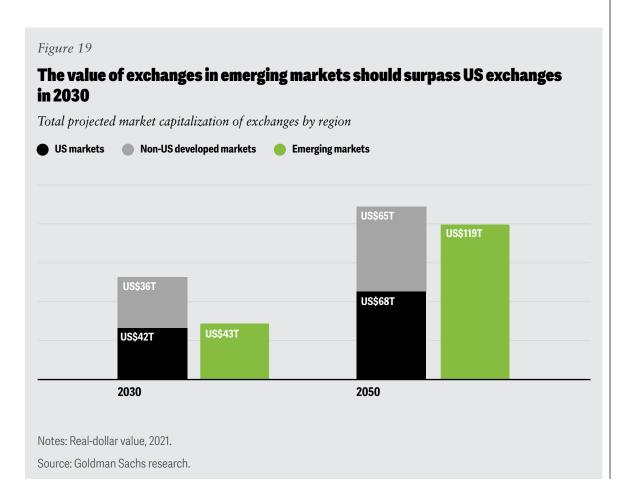
Entering 2024, exchange leaders should ask themselves: How are customer expectations changing as new entrants become more prominent? What business and service lines can we enhance to become indispensable to corporate clients? How can we use emerging technologies—particularly data feed infrastructure, cloud-powered computing, and generative AI—to give traders a competitive edge?

Exchanges continue to seek new ways to evolve

Incumbent exchanges should soon find themselves pitted against new rivals. Some competitors will be specialist exchanges that cater to niche areas, such as those focused on sustainability; others will be up-and-coming exchanges in emerging economies. For example, a new exchange called the Green Impact Exchange (GIX) plans to go live in 2023. The GIX will require companies to adopt principles that promote environmental goals and will delist those that don't adhere to these principles. Singapore's Climate Impact X (CIX), an exchange for the voluntary carbon market, also launched in 2023. There is also the Abaxx Exchange, a commodity futures exchange that focuses on energy markets and natural gas. 181

Other exchanges that have come to market in recent years include the fee transparency-focused Members Exchange (MEMX) and the corporate governance-minded Long-Term Stock Exchange (LTSE). Of course, it is hard to tell how much market share these new exchanges may take.

In addition, exchanges in the Asia-Pacific region are becoming more of a threat to established venues in London and New York. In 2022, the Americas accounted for 27.4% of equity trading volumes, less than half of the share of APAC's volumes. And the market cap of exchanges in emerging markets should exceed the value of US exchanges as soon as 2030, according to economists at Goldman Sachs (figure 19). The fast pace of economic growth in Mainland China and India will help emerging markets command a larger slice of



the global equity market. In total, the share of emerging markets is expected to rise from 27% in 2022 to 35% by decade's end. US exchanges, by comparison, could see their market share shrink from 42% to 35% in that time frame. Within developed economies, influence could also shift: Canadian and Australian exchanges are poised to grow at the expense of peers in Japan and the European Union.¹⁸⁴

Going forward, exchanges will have to maintain more of a global focus, particularly on developing economies as they continue to grow. International issuers already make up about 20% of listings on the New York Stock Exchange (NYSE), 185 and NYSE plans to expand its global customer base even further, especially in countries that have a stronger IPO market. It recently joined forces with both the Tel Aviv Stock Exchange (TASE)186 and the Johannesburg Stock Exchange (JSE)¹⁸⁷ to encourage dual listings on their respective platforms and collaborate on the creation of new products. This follows similar agreements that NYSE made in Indonesia and Singapore to establish a bigger presence in the burgeoning Asia-Pacific region in 2022.¹⁸⁸ The Dubai Financial Market has also been working to entice foreign companies that may be interested in dual listings on two exchanges. 189 Similarly, Choe, which has traditionally been less focused on non-US listings, is intent on attracting companies to its European trading venues. 190

The increasing competition is also placing more urgency on efforts to assess how exchanges can make their listing services more appealing to corporate issuers, domestic and foreign alike. For its part, the Toronto Stock Exchange (TSX) is working with banks and investors to generate more support for domestic companies to list on its platform. ¹⁹¹ Some governments are even stepping in to bring business back to its capital markets. For example, the British Treasury plans to implement "common sense" reforms, such as simplifying prospectuses; easing rules for buying, holding, and selling shares; and developing a new kind of market that will allow private companies to access capital markets without a listing. ¹⁹²

Doubling down on data and technology

Exchanges have been investing in data capabilities for years, and now they should take bolder steps to unlock

new sources of value using innovative tools and technologies. In fact, if exchanges lag in making the technology upgrades that alternative trading systems and off-exchange market venues are undertaking, they could soon encounter interoperability issues with brokers and traders. The sweet spot—where data licensing, cloud computing, and artificial intelligence techniques intersect—should be a particularly strong driver of growth in the coming years.

Exchanges already derive a sizable share of revenues from data services, but there is ample opportunity to grow this pie even more. There is not only a large appetite for real-time trading data, but more firms are looking to purchase pricing, reference, and valuation data as well. In 2022, global spending on market data exceeded US\$37.3 billion.¹⁹³ Exchanges also need to continue to improve how data is packaged and delivered. Both sell-side and buy-side clients increasingly expect more convenient and flexible feeds and mobile solutions they can plug into their analytical models for competitive advantage.

Migrating data to the cloud as urgently as possible will also be key to delivering data-driven, user-centric services. In fact, large exchanges point to cloud-based platforms as "the next generation of how markets will operate." The CME Group expects its cloud adoption to reduce latency. Its investments should also bring massive datasets under one taxonomy that can be tapped for real-time risk mitigation and AI-driven decision-making. These efforts will make it easier for client firms to interact with the Chicago-based exchange.¹⁹⁴

Similarly, Nasdaq's cloud systems are designed to analyze multiple markets simultaneously and execute many orders within seconds. ¹⁹⁵ It expects to migrate two markets by the end of 2023 and plans to move the rest in coming years. The exchange's leaders have also noted that its cloud-based risk management business can monitor transactions across banks and mitigate financial crimes.

Looking over a longer-term horizon, exchanges should consider how quantum computing can improve the performance, speed, and cost of market operations. The immense processing power of quantum algorithms should make it possible for exchanges and market participants to perform tasks that were previously deemed too complicated, such as tasks in derivatives pricing, ¹⁹⁶ order matching, ¹⁹⁷ fraud detection and risk management, ¹⁹⁸ and portfolio optimization through natural language processing. ¹⁹⁹ A Deutsche Börse pilot, for example, found that quantum computing could reduce the time required for a business risk model simulation with 1,000 inputs from multiple years to less than 24 hours. ²⁰⁰ While it may be a few years before this nascent technology can be applied to practical trading applications, some large financial institutions have started to work backward to identify problems that quantum technology may be best suited to solve. ²⁰¹

US banks and financial institutions are also exploring ways to maximize the value of data repositories they built for the SEC's Consolidated Audit Trail (CAT), which became fully operational in 2023. The consolidated tape now provides organizations with a coherent view of current and historic order and trade life cycle events, which they can mine on cloud-based data platforms that support advanced algorithms.²⁰² These tools can unlock new insights, for example, by allowing sell-side analysts to review systematic trading patterns and providing a window for them to advise clients on new trade opportunities. Over time, merging equities data with other securities may bring an even more expansive range of trades across asset classes.

Finally, generative AI will transform securities exchanges globally. Some institutions are already engaged in pilots of various kinds. Nasdaq, for example, is exploring how the technology can more effectively spot financial crime, a capability the company wants to advance as "deepfakes" become more sophisticated and pervasive.²⁰³ It is also assessing how generative AI can assist in building code, writing blog posts, and summarizing legal documents.²⁰⁴

Meanwhile, this technology also has enormous potential to transform trading operations, both on the sell side and buy side. In the near term, traders can use LLMs to process large amounts of text to inform trading strategies. Some big banks, for example, have started using generative AI to pick up on trade signals by deciphering speeches and messaging from the Federal Reserve and other central banks.²⁰⁵ These innovations could impact

the speed and volume of trading on exchanges. It could also usher in a new demand for new types of market data from exchanges.

Exchanges want to be more than just exchanges

While listings and market data continue to be prized assets, many exchanges are expanding into other areas of the financial system to create more sticky relationships with corporates, buy-side, and sell-side firms. These ancillary businesses will become more critical as exchanges contend with heightened competition, increasing fee pressure, and the possibility of stagnated transaction volumes.

Several exchange operators are exploring strategic acquisitions that can bolster their value proposition. Nasdaq, for example, is accelerating its decade-long push to supplement traditional revenue streams with software-based businesses that primarily offer pretrade and at-trade risk management and anti-financial-crime technology. In June 2023, the exchange made its largest ever purchase in a US\$10.5 billion deal for a fintech that will be integrated into its business line dedicated to supporting corporate clients.²⁰⁶ About one-third of the Nasdaq's recurring revenues now stem from software subscriptions, and it is aiming for the share of total revenue attributable to its solutions business to grow from 71% to 77% by the end of 2023.²⁰⁷

UK exchange operators are also branching into new areas to help set the foundation for future growth. The London Stock Exchange (LSEG), for example, entered into a 10-year partnership with Microsoft to catalyze the migration of its infrastructure to the cloud. The partnership also plans to develop products that can be delivered through Microsoft's offerings, such as data and analytics shared on the Teams messaging platform.²⁰⁸ In addition, LSEG is also expanding into green financing; its recently launched voluntary carbon market sets listing rules for investment funds and businesses to raise capital for carbon credit-yielding projects.²⁰⁹ Other alternative revenue streams that exchanges can pursue include platforms to host fintechs and other ecosystem players, direct market access that targets specific customers, and smart contract-based KYC processes.²¹⁰

Digital assets continue to attract new market infrastructure firms, which can play a unique role in offering proper governance and cross-market risk management. European institutions will likely have a leg up piloting digital securities, given the flexibility that some regulators are extending to that market. Luxembourg, for example, adopted a law that expands the definition of financial instruments to include products issued on the blockchain. This will open the door to the greater issuance of tokenized securities.²¹¹ The Luxembourg Stock Exchange (LuxSE) is only issuing tokens rooted in fiat currency that qualify as debt financial instruments, but exchanges may soon facilitate the launch of other novel listings. Exchanges and market infrastructure firms can instill credibility into blockchain-issued instruments by building out complementary services, such as repo solutions and digital custody.

However, expanding revenue streams into nascent markets is fraught with some uncertainties. Digital assets and securities tokenization do not have a globally consistent regulatory framework. Similarly, voluntary carbon markets could benefit from greater regulatory guidance and clarity, not to mention ambiguous legal and accounting standards. Finally, carving out too deep of a niche may subject exchanges to antitrust concerns and/or claims of data monopolization.

Time's up for the T+1 transition

The move to an accelerated trade settlement period in Canada and the United States continues to be a major undertaking. Many firms are scrambling to prepare before the May 2024 implementation date. The transition to T+1 is expected to reduce credit, counterparty, and operational risks arising from unsettled trades. But crossing the finish line—and adapting to new workflows once the changes take effect—will be a major hurdle.

While the shifts to T+3 and T+2 were largely technology-driven, accelerated settlement will trigger many changes in processes and behaviors. Chief among them is reduced time available for post-trade operations. In

fact, the Association for Financial Markets in Europe predicts that the transition from T+2 to T+1 shortens the settlement operations window by 83%. This truncated timeline will impact how institutions interact with global clients. Large North American firms may adopt the "follow-the-sun" model of assisting clients from multiple global locations, but other institutions may need to rely on second/staggered shifts. In addition, non-US investors could begin prefunding FX trades to accommodate the T+1 settlement cycle. Investment managers outside the United States may need to sell a day earlier to make US funds available for trades, which could impact their other holdings. ²¹³

Costs are widely expected to rise if there is an increase in trade fails, which will require higher margins, more collateral, and increased funding. Firms can bring about operational efficiencies by working to automate posttrade processes that currently require manual intervention and moving to straight-through processing. One area ripe for automation is the allocation of institutional trades; only about 20% of allocations in the United States occur when markets are open.214 Increasing trading-day allocations can provide more time to process confirmations and execute timely affirmations.²¹⁵ In addition, the industry should update service-level agreements to improve the consistency and reliability of information shared between market participants.²¹⁶ Roughly four out of 10 trade fails are the result of incomplete or inaccurate settlement instructions and unavailable securities.²¹⁷

There could also be more friction in securities lending. Not only will lenders have a shorter time frame to identify and recall securities, but custodians and agents may not receive sufficient notice to return them if batch processing limits their access to real-time information. This can lead to an uptick in breaks and fails, as well as an increase in penalties. As a result, global firms may be hesitant to extend loans if they believe time zone differences will prevent them from making a recall on the US and Canadian trade date, which have the latest market closing times among developed economies.²¹⁸

Endnotes

- 1. IMF, World Economic Outlook Update, July 2023.
- **2.** Ibid.
- **3.** Ibid.
- **4.** Ibid.
- US Federal Reserve, "FOMC projections materials," June 14, 2023.
- **6.** Martin Arnold and George Steer, "ECB raises interest rates back to record high," *Financial Times*, July 27, 2023.
- **7.** Shaloo Shrivastava, "Bank of England rates set to peak at 5.75% by year-end: Reuters poll," *Reuters*, July 25, 2023.
- **8.** TD Economics, Canadian Quarterly Economic Forecast, June 15, 2023.
- Leika Kihara, "BOJ debated prospects of sustained inflation at July meeting – summary." *Reuters*, August 7, 2023.
- **10.** Federal Reserve Bank of St. Louis, "Board of Governors of the Federal Reserve System (US)," August 8, 2023.
- 11. DCFS analysis of Economist database.
- **12.** DCFS analysis of S&P Market Intelligence database.
- **13.** Detlef Glow, "Monday morning memo: A view on the European fund flows in money market products," *Refinitiv*, May 8, 2023; U.S. Securities and Exchange Commission, "2023 Money Market Fund Statistics," accessed on August 8, 2023.
- **14.** European Central Bank (ECB), "July 2023 euro area bank lending survey," July 25, 2023; US Federal Reserve, Senior loan officer opinion survey on bank lending practices, July 2023.
- **15.** DCFS analysis of S&P Market Intelligence database.
- **16.** Allianz SE, European commercial real estate selectivity matters!, May 25, 2023.
- **17.** ECB, "July 2023 euro area bank lending survey."
- **18.** Ibid
- **19.** DCFS analysis of S&P Market Intelligence database.
- **20.** Vaibhav Chakraborty and Xylex Mangulabnan, "CRE loan delinquency rate at US banks rises sharply," S&P Global Market Intelligence, May 31, 2023; Daria Mosolova, "UK lenders report rise in household and company defaults," *Financial Times*, April 13, 2023.
- **21.** US Federal Reserve, "Federal Reserve Board releases results of annual bank stress test, which demonstrates that large banks are well positioned to weather a severe recession and continue to lend to households and businesses even during a severe recession," press release, June 28, 2023; Bank of England, "Stress testing the UK banking system: 2022/23 results," July 12, 2023.
- 22. Center for Regulatory Strategy US, US Basel III Endgame: Key changes, impacts and where to begin, Deloitte, August 2, 2023.
- **23.** US Federal Reserve, "Statement by Governor Michelle W. Bowman," news release, July 27, 2023.
- **24.** Ibid.
- **25.** Center for Regulatory Strategy US, US Basel III Endgame: Key changes, impacts and where to begin.
- **26.** European Parliament, "EU AI Act: first regulation on artificial intelligence," June 14, 2023.
- **27.** Center for Regulatory Strategy US, US Basel III Endgame: Key changes, impacts and where to begin.

- **28.** Rohit Chopra, "Laying the foundation for open banking in the United States," Consumer Finance, June 12, 2023.
- **29.** Jaren Kerr, "Canada's big banks log 13-fold rise in loan loss provisions," *Financial Times*, May 28, 2023.
- 30. Tim Partridge, Richard Rosenthal, Val Srinivas, and Abhinav Chauhan, Higher deposit costs will challenge banks, even after interest rates drop, Deloitte Insights, July 27, 2023.
- **31.** Nathan Stovall, Syed Muhammed Ghaznavi, and Zain Tariq, "CDs jump at US banks as institutions market increasingly higher rates," S&P Global Market Intelligence, April 28, 2023.
- **32.** Bernadette Berdychowski, "What's next for Tampa startup after its bank collapsed," *Tampa Bay Times*, April 3, 2023.
- **33.** Gina Heeb, "Online banks winning fight for deposits," Wall Street Journal. June 3, 2023.
- **34.** Kate Drew, "BaaS banks outperform regionals in deposit fight," CCG Insights, May 18, 2023.
- **35.** Ibid
- **36.** Monica Raymunt, Abhinav Ramnarayan, and Albertina Torsoli, "Europe's carmakers are competing with retail banks for deposits," *Bloomberg*, July 3, 2023.
- **37.** Ibid
- **38.** Darragh Riordan and Marissa Ramos, "Deposit outflows emerge at European banks," S&P Global Market Intelligence, June 15, 2023.
- **39.** Val Srinivas and Abhinav Chauhan, End of cheap deposits: Implications for banks' deposit betas, asset growth, and funding, Deloitte, 2022, p. 5.
- **40.** The Economist, "Why America will soon see a wave of bank mergers," April 20, 2023.
- 41. Srinivas and Chauhan, End of cheap deposits, p. 5.
- **42.** ATTOM, "Home-mortgage lending across U.S. falls to more than 20-year low in first quarter," press release, June 1, 2023.
- **43.** Board of Governors of the Federal Reserve System, "Agencies request comment on proposed rules to strengthen capital requirements for large banks," press release, July 27, 2023.
- **44.** Paige Smith and Katanga Johnson, "Bank capital rules risk shutting out first-time homebuyers," *Bloomberg*, July 27, 2023.
- **45.** Iain Withers, Valentina Za, and Jesús Aguado, "European banks flag bad loan risks as global economy falters," *Reuters*, July 26, 2023.
- **46.** Amy Hawkins and Helen Davidson, "Chinese banks try to revive housing market with mortgages for 95-year-olds," *The Guardian*, March 1, 2023.
- **47.** Byron Kaye, "Analysis: Australian banks' bid to shake mortgage reliance brings new risks," *Reuters*, May 16, 2023.
- **48.** Rohit Chopra, "The CFPB intends to identify ways to simplify and streamline the existing mortgage servicing rules," CFPB blog, June 15, 2023.
- **49.** John Marr, "Consumer duty: the journey continues...," UK Finance blog, March 8, 2023.
- **50.** Shinhye Kang, "New players can enter Korea's banking sector for first time in 30 years," *Bloomberg*, July 4, 2023.

- **51.** J.D. Power, "U.S. retail bank customers: stressed and looking to their bank for help, J.D. Power finds," press release, March 30, 2023.
- **52.** Ibid.
- **53.** FICO, "Unlocking hyper-personalization at hyper-scale," accessed September 25, 2023.
- **54.** Plaid, "Tech Talk: Unlock the future of banking personalization to win and retain customers," Plaid blog, July 23, 2023.
- **55.** Ibid
- **56.** Garret Reich, "8 inspirational ideas for banks from other industries," *The Financial Brand*, January 12, 2022.
- 57. Jasmin Baron, "Capital One cardholders can get early access to Taylor Swift concert tickets — here are the best cards to consider if you want to get in on the presale," *Business Insider*, April 19, 2023.
- **58.** Evan Weinberger, "Open banking rule backers push CFPB to expand eligible data sets," *Bloomberg*, April 7, 2023.
- **59.** *Finextra*, "Banks must act now to embed themselves in the digital identity market," February 1, 2023.
- **60.** Ryan Browne and MacKenzie Sigalos, "Big banks are talking up generative A.I. but the risks mean they're not diving in headfirst," *CNBC*, June 13, 2023.
- **61.** William Shaw and Aisha S. Gani, "Wall Street banks are using AI to rewire the world of finance," *Bloomberg*, May 31, 2023.
- **62.** Catherine Leffert, "JPMorgan Chase aims to create \$1.5 billion in value with AI by yearend," *American Banker*, May 30, 2023.
- **63.** Ibid.
- **64.** Consumer Financial Protection Bureau, "CFPB issue spotlight analyzes 'artificial intelligence' chatbots in banking," press release, June 6, 2023.
- **65.** Jean Sideris and Rawad Nasser, "The rise of domestic card schemes taking back control of payments?," *The Paypers*, June 16, 2023.
- **66.** Tsubasa Suruga, "Thailand, Japan and Vietnam lag in Asia's digital payments rush," *Nikkei Asia*, April 12, 2023.
- JPMorgan Chase, "Second Quarter 2023 Results," July 14, 2023.
- **68.** Mastercard, "Second Quarter 2023 Financial Results Conference Call," July 27, 2023.
- **69.** Emily Cubides and Shaun O'Brien, "2023 Findings from the Diary of Consumer Payment choice," Federal Reserve Bank of San Francisco, May 5, 2023.
- **70.** Federal Reserve Bank of New York, Quarterly report on household debt and credit, August 2023.
- **71.** Ibid.
- **72.** Kristina Partsinevelos, "The fight over a bill targeting credit card fees pits payment companies against retailers," *CNBC*, July 30, 2023.
- 73. Rajeev Kumar, "Credit card portability: Change from Visa to Mastercard to RuPay or any network soon – What RBI said," Financial Express, July 6, 2023.
- **74.** World Bank, "Remittances remain resilient but likely to slow," press release, June 13, 2023.
- **75.** World Bank, Remittance prices worldwide quarterly, March 2023.
- **76.** Ibid.
- Firstpost, "After big success at home, how India's UPI is going global," June 14, 2023.
- **78.** Ibid.

- **79.** Jean Sideris and Rawad Nasser, "The rise of domestic card schemes taking back control of payments?," *The Paypers*, June 16, 2023.
- **80.** The Federal Reserve, "Organizations certified as ready for the FedNow® service," June 29, 2023.
- **81.** Rabab Ahsan, "Challenging facing Paze: Jostling for position in a crowded digital wallet space," *Tearsheet*, June 6, 2023.
- **82.** European Commission, "European data strategy," accessed August 21, 2023.
- **83.** Pymnts, "Australia reclassifies BNPL as credit while UK and US regulators eye similar actions," May 26, 2023.
- **84.** Consumer Financial Protection Bureau, "Director Chopra's prepared remarks on the release of the CFPB's buy now, pay later report," press release, September 15, 2022.
- **85.** Jarni Blakkarly, "Government announces 'balanced' BNPL reforms," CHOICE, May 22, 2023.
- **86.** Klarna, "Klarna launches UK's first credit 'opt out' after meeting with MP," press release, May 23, 2023.
- **87.** Menes Etingue Kum, Briana Mangialardi, Nakul Lele, and Marc Bender, "Unlocking the potential of buy now pay later," Deloitte Digital, January 27, 2023.
- **88.** Ibid.
- **89.** Credit Suisse, "The Question 2.0: A framework for answering whether scaled incumbent acquirers' growth can persist," October 14, 2022.
- **90.** Credit Suisse, "If software is eating the world... payments is taking a bite," September 7, 2022.
- **91.** Will McCurdy, "Adyen moves into embedded finance with dual product launch," AltFi, October 25, 2022; Jordan McKee, "Money 20/20 U.S. highlights: The rise of embedded finance and 'everything' as a service," *Forbes*, November 7, 2022.
- **92.** Satish Lalchand, Val Srinivas, and Jill Gregorie, *Using biometrics to fight back against rising synthetic identity fraud*, Deloitte Insights, July 27, 2023.
- **93.** Pymnts, "UK APP fraud rules will keep faster payments safer long term, experts say," May 2, 2023.
- **94.** UK Finance, Annual Fraud report: The definitive overview of payment industry fraud in 2022, May 2023; British pound to US dollar conversation rate of 1.2369 in 2022. See: Exchange Rates, "British Pound to US Dollar Spot Exchange Rates for 2023," accessed on September 1, 2023.
- **95.** Payment Systems Regulator, "Fighting authorised push payment fraud: a new reimbursement requirement," June 2023.
- **96.** Anthony Shorrocks et al., *Global Wealth Report* 2022, Credit Suisse Research Institute, September 21, 2022; International Monetary Fund, "World Economic Outlook Database," April 2023.
- **97.** Shorrocks et al., Global Wealth Report 2022.
- **98.** Business Research Company, Wealth Management Global Market Briefing 2023, January 2023.
- **99.** International Monetary Fund, "The global recovery is slowing amid widening divergences among economic sectors and regions," July 2023.
- **100.** Krissy Davis, Katerina Tzouganatos, Sean Collins, and Samia Hazuria, Financial services firms can untap global growth by democratizing financial advice, Deloitte Insights, July 27, 2023.
- **101.** Tiburon Strategic Advisors, "Tiburon CEO Summits," accessed September 25, 2023.

- **102.** J.D. Power, "Investor satisfaction with full-service financial advisors crumbles as markets fall," press release, April 4, 2023.
- **103.** Ibid.
- **104.** Angie O'Leary, Griffin Geisler, and Daniel Gottlieb, *Taking* control of health care in retirement, RBC Wealth Management, March 2021.
- 105. Jean-François Lagassé, Patrik Spiller, Dr. Christoph Kunzle, Dr. Moritz Classen, Swiss Affluent Clients: Building a winning proposition for a growing client segment, Deloitte Monitor, June 02, 2023.
- 106. Ross Snel, "Here's how bad the financial advisor talent shortage is," Barron's, June 26, 2023.
- 107. Hubbis, "UBS embarks on an extensive recruitment drive to bolster its team of wealth managers specializing in serving affluent Americans," July 04, 2023.
- 108. Citi, "Disruption and transformation in wealth: Future-proofing service and operating models," July 18, 2023.
- 110. Global Market Insights, "Wealth management platform market size by advisory mode (Human advisory, robo advisory, hybrid), By deployment model (on-premise, cloud), application, end-use & global forecast, 2023 - 2032," accessed August 04, 2023.
- 111. Keith Berry, "Everything you need to know about pKYC," Corporate Compliance Insights, March 08, 2023.
- **112.** Deloitte, "Deloitte launches generative AI practice to help clients harness the power of disruptive new AI technology," press release, April 13, 2023.
- 113. SEC, "SEC proposes new requirements to address risks to investors from conflicts of interest associated with the use of predictive data analytics by broker-dealers and investment advisers," press release, July 26, 2023.
- 114. Blake Schmidt and Amanda Albright, "AI Is coming for wealth management. Here's what that means," Bloomberg, April 21, 2023.
- 115. William Shaw and Aisha S. Gani, "Wall Street banks are using AI to rewire the world of finance," Bloomberg, June 1, 2023.
- 116. Hugh Son, "JPMorgan is developing a ChatGPT-like A.I. service that gives investment advice," *CNBC*, May 25, 2023. **117.** Tiburon Strategic Advisors, "Tiburon CEO Summits."
- 118. Jacob Wolinsky, "Investors widely prefer small private equity and hedge funds," Forbes, December 29, 2022.
- 119. Ian Heath, "Luxembourg parliament approves bill to boost retail access to alts fund," Citywire, July 12, 2023.
- 120. Mark Schoeff Jr., "House unanimously passes bills to expand accredited investor pool," Investment News, June 6, 2023.
- 121. Taiga Uranaka and Komaki Ito, "MUFG seeks to buy alternative asset firms to match client flows," Bloomberg, April 20, 2023.
- **122.** Dennis Gallant, "Democratization of alternatives Is coming, but it's not exactly a field of dreams," ISS Market Intelligence, January 5, 2023.
- **123.** Savita Subramanian et al., Global Wealth & Investment Management Survey, BoFA Global Research, March 08, 2023.
- 124. Andy Masters, Rohit Sharma, and François-Clement Charbonnier, "ESG investing, here to stay," Deloitte UK, March 22, 2023.

- **125.** Banking Exchange, "Global ESG assets to hit \$50 trillion by 2025," January 25, 2022.
- **126.** Directorate-General for Environment, "Proposal for a directive on green claims," European Commission, March 22, 2023.
- **127.** Richard Satran, "SEC makes ESG issues a top concern in examinations, even before it finalizes new disclosure rules," Thomson Reuters, May 19, 2023.
- 128. Ted Godbout, "\$1 billion-plus deals driving 2023 RIA M&A activity," NAPA, July 10, 2023.
- 129. Charles Paikert, "Why Mercer Advisors Is the Leading RIA Acquirer," Family Wealth Report, December 15, 2022; Wealth Enhancement Group, "Wealth Enhancement Group grows by adding Scroggins Wealth Management, an Independent RIA with over \$370 million in client assets," October 5, 2022.
- **130.** Corporate and transaction banking businesses comprise commercial and industrial (C&I) and commercial real estate (CRE) lending; corporate deposits, cash, and treasury services; corporate payments; trade and supply chain finance; prime brokerage; and securities services.
- 131. St. Louis Federal Reserve, "Commercial and industrial loans, all commercial banks," July 2023.
- 132. St. Louis Federal Reserve, "Real estate loans: Commercial real estate loans, all commercial banks," July 2023.
- 133. Trading Economics, "Euro area loans to non-financial corporations," accessed August 21, 2023; Euro to US dollar conversation rate of 1.2638 in June 2023. See, Exchange Rates, "British pound to US dollar spot exchange rates for 2023," accessed September 1, 2023.
- 134. Client interviews.
- **135.** Board of Governors of the Federal Reserve System, July 2023 senior loan officer opinion survey on bank lending practices, Iuly 31, 2023.
- **136.** European Central Bank, "The Euro area bank lending survey for the second quarter of 2023," July 2023.
- 137. Allison Nathan, "Top of mind All about bank (panic)s," Goldman Sachs, April 3, 2023.
- **138.** MSCI Real Capital Analytics data, extract as of September 9, 2023.
- 139. Carl White, "Commercial real estate market stress poses a challenge to banks," Federal Reserve Bank of St. Louis, July 6, 2023.
- **140.** Federal Reserve System, "Policy statement on prudent commercial real estate loan accommodations and workouts," June 30, 2023.
- 141. Cathal McEloy and Cheska Lozano, "European bank stock recovery faces test as political pressure on deposit mounts," S&P Global, July 13, 2023.
- **142.** Interviews with Deloitte experts.
- **143.** Niklas Bergentoft and François-Dominique Doll, "Deloitte global treasury survey," November 2022.
- 144. Tim Partridge and Richa Wadhwani, Commercial Banking 2025: Finding a new compass to navigate the future, Deloitte, January 27, 2023.
- **145.** Justin Silsbury, "Maintaining cash flow agility for an evolving treasury function," The Global Treasurer, November 16, 2022.
- 146. Citigroup, "Citi and TIS launch next generation cash flow forecasting & working capital insights for companies," press release, May 1, 2023.
- **147.** Board of Governors of the Federal Reserve System,

- "Commercial checks collected through the Federal Reserveannual data," accessed June 8, 2023.
- 148. Nacha, "Overall ACH network volume Growing fast. Growing strong," accessed June 8, 2023.
- **149.** Pymnts, "Visa earnings shine a spotlight on the continuing transformation of B2B payments," April 26, 2023.
- 150. Arnaud Dornel, Jakob Engel, and Mariem Malouche, "Greasing the wheels of commerce — Trade finance and credit," World Bank, February 8, 2023.
- 151. Asian Development Bank, "Toward inclusive access to trade finance," August 2022.
- **152.** Ibid.
- **153.** A bill of lading is a legal document issued by a carrier to a shipper that details the type, quantity, and destination of the goods being carried.
- **154.** International Chamber of Commerce, "Digital trade roadmap: A communication for policymakers," May 18, 2020.
- **155.** Deepesh Patel and Brian Canup, "Breaking: King signs off the Electronic Trade Documents Bill," Trade Finance Global, July 20, 2023.
- **156.** Laura Murray, "Electronic Trade Documents Bill to bring global trade into the 21st Century," The Banker, February 2, 2023.
- 157. Krissy Davis, Julia Cloud, Tony Gaughan, and Doug Dannemiller, 2023 Investment management outlook, Deloitte Insights, October 7, 2023.
- **158.** Credit Agricole, "CACEIS and Royal Bank of Canada complete acquisition of RBC Investor Services' operations in Europe and Malaysia," press release, July 3, 2023.
- 159. Giancarlo, "European Banks overtake US competitors in crypto custody race," Blockzeit, July 17, 2023.
- **160.** Emily Nicolle, "Societe Generale Unit gets France's first crypto license," Bloomberg, July 19, 2023.
- **161.** Citigroup, "T+1 A race against time."
- **162.** DCFS analysis of Tricumen database.
- **163.** Banks Q2 2023 earnings analysis.
- **164.** DCFS analysis of Tricumen database.
- **165.** Banks Q2 2023 earnings transcript.
- **166.** Refinitiv Eikon Investment banking Q2 2023 report.
- 167. Valentina Za, "Mediobanca buys Arma Partners to boost tech advisory offer," Reuters, May 19, 2023.
- **168.** DCFS analysis of S&P Market intelligence database.
- **169.** Lauren Thomas, "Lazard launches new arm focused on capital raising," Wall Street Journal, July 25, 2023.
- 170. JPMorgan, "Is the private markets boom here to stay?," February 16, 2023.
- **171.** DCFS analysis of Tricumen database.
- **172.** Simon Foy, "Bankers refusing to return to the office will be punished, warns JP Morgan," The Telegraph, April 12, 2023.
- 173. Makiko Yamazaki, "Japan's Daiwa targets 50% jump in M&A advisory with US focus," Reuters, June 1, 2023.
- 174. Colby Smith, "Regulators announce 'Basel III endgame' rules for large US banks," Financial Times, July 28, 2023.
- 175. Dr. Guowei Zhang, Katie Kolchin, Dr. Peter Ryan, and Carter McDowell, "The Basel III Endgame's Potential Impacts on Commercial End-Users," SIFMA, July 11, 2023.
- 176. FSB, "FSB finalises global regulatory framework for cryptoasset activities," press release, July 17, 2023. **177.** Craig Coben, "Bonus cap blues," *Financial Times*,

- February 15, 2023.
- 178. Susanna Twidale and Kirsten Donovan, "Nine global banks invest \$45 mln in carbon credit platform," Reuters, February 8, 2023.
- 179. Green Exchange, "We're rethinking green investing," accessed August 18, 2023.
- **180.** Climate Impact X, "Who we are," accessed August 18, 2023.
- 181. BNN Bloomberg, "Abaxx Technologies goes public and prepares to launch commodity futures exchange," video, 8:54, accessed September 25, 2023.
- 182. World Federation of Exchanges, FY 2022 market highlights, March 17, 2023, p. 8.
- 183. Goldman Sachs, "Emerging stock markets projected to overtake the US by 2030," Goldman Sachs Intelligence, June 22, 2023.
- **184.** Ibid.
- **185.** Ibid.
- **186.** Rick Steves, "NYSE and Tel Aviv Stock Exchange to promote dual listings," *Finance Feeds*, December 7, 2022.
- 187. Intercontinental Exchange, "The New York Stock Exchange and The Johannesburg Stock Exchange announce collaboration on dual listings," press release, October 10, 2022.
- 188. Sara Velezmoro, "Exclusive interview with NYSE international listings head, Cassandra Seier," FinanceAsia, April 11, 2023.
- 189. Farah Elbahrawy, Archana Narayanan, and Julia Fioretti, "Dubai Stock Exchange in talks to attract dual listings, CEO says," Bloomberg, January 23, 2023.
- **190.** Nikou Asgari, "Cboe prepares for European stock market listings grab," Financial Times, May 24, 2023.
- 191. Geoffrey Morgan, "Toronto Exchange Fights to Keep Stock Listings in Canada Over US," Bloomberg, April 17, 2023.
- 192. HM Treasury, "Chancellor Jeremy Hunt's Mansion House speech," Gov.UK, July 10, 2023.
- 193. TP ICAP, "Global spend on financial market data totals a record \$37.3 billion in 2022, rising 4.7% on demand for research, pricing, reference and portfolio management data new Burton Taylor report," press release, April 18, 2023.
- 194. Shanny Basar, "CME, Google Cloud Partnership is 'Transformational'," Traders Magazine, January 10, 2022.
- 195. TikTok, "#Nasdaq CEO Adena Friedman opens up about implementing a next generation trading system by moving #markets to the cloud and using #AI to prevent financial crime. #tech #business #finance #stocks #stock market," video, Bloomberg Business, July 19, 2023.
- 196. Shouvanik Chakrabarti, Rajiv Krishnakumar, Guglielmo Mazzola, Nikitas Stamatopoulos, Stefan Woerner, and William J. Zeng, "A threshold for quantum advantage in derivative pricing," *Quantum 5* (2021): p. 463. **197.** Rigetti, "Rigetti and Nasdaq team-up to pursue quantum
- advantage for financial applications," press release, February 15, 2022.
- **198.** Ibid.
- 199. Greg Noone, "Who are the early adopters of quantum computers? Big banks, that's who.," Tech Monitor, January 12, 2023.
- **200.** Deutsche Börse Group, "Quantum computing opening up new business horizons," press release, March 10, 2023.

- **201.** Matt Swayne, "Study: quantum computers can't match classical computers in derivative pricing...yet," *Quantum Insider*, December 29, 2020.
- **202.** Christopher Stevenson and Andrew McGuigan, *Seizing cloud opportunities: The consolidated audit trail*, Deloitte, 2017, p. 5.
- **203.** Jeffrey Dastin, "Generative AI comes to Nasdaq, winning over engineers," *Reuters*, July 11, 2023.
- **204.**Ibid.
- **205.** Ben Wodecki and Deborah Yao, "JPMorgan unveils AI model to forecast Fed moves," *AI Business*, April 28, 2023.
- **206.** Manya Saini, Anirban Sen, and John Mccrank, "Nasdaq to buy fintech firm Adenza for \$10.5 billion, rattling some investors," *Reuters*, June 12, 2023.
- **207.** Katherine Doherty and Amy Thomson, "Nasdaq seeks predictability in deal to buy Thoma Bravo's Adenza," *Bloomberg*, June 12, 2023.
- **208.** Annabel Smith, "LSEG to spend £2.3 billion on Microsoft cloud partnership as part of expansive 10-year deal with tech giant," *The TRADE*, December 12, 2022.
- **209.** London Stock Exchange, "The voluntary carbon market," accessed August 18, 2023.

- **210.** David Myers and Robert Walley, *Financial markets infrastructure case for change: An exchange perspective*, October 2019, pp. 9–11.
- **211.** Deloitte Luxembourg, "Luxembourg completes its DLT framework with Blockchain III Law," news release, March 27, 2023.
- **212.** AFME, "T+1 Settlement in Europe: Potential benefits and challenges," September 2022.
- **213.** Bill Meenaghan, "The move to T+1 in the US who really benefits?," S&P Global Intelligence, May 6, 2022.
- **214.** DTCC Connection Staff, "Get ready for May 28, 2024: Top five things to do now," DTCC, May 24, 2023.
- **215.** Ibid.
- **216.** Robert Walley, "Accelerating the settlement cycle: An opportunity to modernise across the industry," *Journal of Securities Operations & Custody 15, no. 1* (Spring 2023): pp. 62–67.
- **217.** İbid.
- **218.** Sophie Thomson, "Experts speculate on what T+1 means for securities lending," Global Investor Group, March 13, 2023.

About the authors

Mike Wade

miwade@deloitte.com

Mike Wade is a Deloitte vice chair and leader of the US Banking and Capital Markets practice. He is responsible for leading the firm's overall banking and capital markets sector strategy and aligning the firm's practice areas to optimally serve these clients and the market. With more than 30 years of experience, he has been a trusted adviser to the C-suite of major financial services firms on topics such as corporate governance, wealth management, and broker-dealer operations and technology.

Neil Tomlinson

ntomlinson@deloitte.co.uk

Neil Tomlinson is a Deloitte vice chairman and the global leader of the Banking and Capital Markets practice. He is also a member of the firm's Global Financial Services leadership council and the leader of the UK firm's CEO program. He specializes in strategy and business transformation and has expertise in various areas across the banking sector, including retail banking, corporate banking, and wealth management.

Val Srinivas, PhD

vsrinivas@deloitte.com

Val Srinivas is the Banking and Capital Markets research leader at the Deloitte Center for Financial Services. He leads the development of thought leadership initiatives in the banking industry, coordinating the various research efforts and helping to differentiate Deloitte in the marketplace. He has more than 20 years of experience in research and marketing strategy.

Acknowledgments

Authors and coauthors Richa Wadhwani, Jill Gregorie, Abhinav Chauhan, Samia Hazuria, and contributing analyst Shivalik Srivastav, wish to thank the following Deloitte client services professionals for their insights and contributions:

Regional leaders:

APAC

Tony Wood, partner, Deloitte Advisory (Hong Kong) Limited David Myers, partner, Deloitte Touche Tohmatsu LLC Yukihiro Otani, partner, Deloitte Touche Tohmatsu LLC

EMEA

Richard Kibble, partner, Deloitte MCS Limited Alessandra Ceriani, partner, Deloitte Consulting SRL Juan Perez de Ayala, partner, Deloitte Consulting SLU Marijn Struben, partner, Deloitte Netherlands

Canada

Raman Rai, partner, Deloitte Canada

Subject matter specialists:

Macroeconomics

Danny Bachman, senior manager, Deloitte Services LP Ira Kalish, managing director, Deloitte Touche Tohmatsu Michael Wolf, senior manager, Deloitte Touche Tohmatsu LLC Shiro Katsufuji, managing director, Deloitte Touche Tohmatsu LLC

Retail banking

Kristin Korzekwa, managing director, Deloitte Consulting LLP Thomas Nicolosi, principal, Deloitte & Touche LLP Bill Dworsky, senior manager, Deloitte Consulting LLP Jeff Todd, partner, Deloitte Canada

Consumer payments

Zachary Aron, principal, Deloitte Consulting LLP Jade Shopp, partner, Deloitte & Touche LLP Mike Reichert, partner, Deloitte Tax LLP Tushar Puranik, managing director, Deloitte Consulting LLP

Wealth management

Jean-François Lagassé, partner, Deloitte AG Kendra Thompson, partner, Consulting, Deloitte Canada Karl Ehrsam, principal, Deloitte & Touche LLP Gauthier Vincent, principal, Deloitte Consulting LLP Jeff Levi, principal, Deloitte Consulting LLP Thomas Kirk, managing director, Deloitte Consulting LLP Pascal Martino, partner, Deloitte Tax and Consulting LLP James Alexander, director, Deloitte MCS Limited Peyman Pardis, senior manager, Consulting, Deloitte Canada

Corporate and transaction banking

Tim Partridge, principal, Deloitte Consulting LLP
Kris Ferguson, partner, Deloitte MCS Limited
Steven Fricano, managing director, Deloitte Consulting LLP
Stefan Frank, partner, Deloitte Consulting GmbH
Ketan Bhole, partner, Deloitte Canada
Fadl El Laoune, managing director, Deloitte Consulting LLP
Michelle Gauchat, principal, Deloitte Consulting LLP
Nitish Idnani, principal, Deloitte & Touche LLP
Vipul Pal, principal, Deloitte Consulting LLP

Investment banking and capital markets

Sachin Sondhi, principal, Deloitte Consulting LLP
Vishal Vedi, partner, UK, Deloitte LLP
Nina Gopal, partner, UK, Deloitte MCS Limited
Suresh Kanwar, partner, Deloitte MCS Limited, UK
Sriram Gopalakrishnan, principal, Deloitte Consulting LLP
Margaret Doyle, partner, Head of UK Financial Services Insights Center, Deloitte LLP
Alex Lakhanpal, partner, Deloitte & Touche LLP

Market infrastructure

Bob Walley, principal, Deloitte & Touche LLP Sunil Kapur, managing director, Deloitte & Touche LLP George Black, principal, Deloitte & Touche LLP

The Deloitte Center for Financial Services, Deloitte Insights, and B&CM practice professionals

Jim Eckenrode, managing director, Deloitte Services LP Sylvia Gentzsch, senior manager, Deloitte GmbH Alec Roberts, senior manager, Deloitte & Touche LLP Patricia Danielecki, senior manager, Deloitte Services LP Karen Edelman, senior manager, Deloitte Services LP Paul Kaiser, manager, Deloitte Services LP

Pankaj Kumar Bansal, assistant manager, Deloitte Support Services India Pvt Ltd.

Jayesh Prabhu, assistant manager, Deloitte Support Services India Pvt Ltd.

Margaret Doyle, partner, Head of UK Financial Services Insights Center, Deloitte LLP

2024 banking and capital markets outlook

About the Deloitte Center for Financial Services

The Deloitte Center for Financial Services, which supports the organization's US Financial Services practice, provides insight and research to assist senior-level decision-makers within banks, capital markets firms, investment managers, insurance carriers, and real estate organizations. The center is staffed by a group of professionals with a wide array of in-depth industry experiences as well as cutting-edge research and analytical skills. Through our research, roundtables, and other forms of engagement, we seek to be a trusted source for relevant, timely, and reliable insights. Read recent publications and learn more about the center on Deloitte.com.

Connect

To learn more about the vision of the DCFS, its solutions, thought leadership, and events, please visit www.deloitte.com/us/cfs.

Subscribe

To sign up for more information and personalize the content sent to you, including our latest research, articles, and webcasts, please visit My Deloitte.

Engage

Follow us on Twitter at: @DeloitteFinSvcs

Continue the conversation

Industry leadership contacts

Monica O'Reilly

Vice chair, US Financial Services Industry leader | Deloitte & Touche LLP +1 415 783 5780 | monoreilly@deloitte.com

Monica O'Reilly leads the US Financial Services Industry group focused on the banking, capital markets, insurance, investment management, and real estate sectors.

Mike Wade

Vice chair | US Banking and Capital Markets Practice leader | Deloitte & Touche LLP +1 804 697 1537 | miwade@deloitte.com

Mike Wade is a Deloitte vice chair and leader of Deloitte's US Banking and Capital Markets practice. With more than 30 years of experience, he is responsible for leading the firm's overall banking and capital markets sector strategy.

Neil Tomlinson

Vice chairman | Global Banking and Capital Markets leader | Deloitte MCS Limited +44 (0)20 7303 2333 | ntomlinson@deloitte.co.uk

Neil Tomlinson is vice chairman and global leader for retail banking. He is a member of Deloitte's global banking & capital markets executive. In the United Kingdom, he leads the CEO program serving all industries.

US Practice contacts

Michelle Gauchat

Principal | US Banking & Capital Markets Consulting leader | Deloitte Consulting LLP +1 703 251 3949 | mgauchat@deloitte.com

Michelle is the leader of Deloitte's US Consulting banking and capital markets sector, responsible for leading the strategy and bringing together the right offerings to serve Deloitte's portfolio of banking and capital markets clients.

Garrett O'Brien

Principal | US Banking & Capital Markets Risk & Financial Advisory leader | Deloitte & Touche LLP +1 212 436 5250 | gobrien@deloitte.com

Garrett O'Brien leads the US Banking & Capital Markets practice for Deloitte Risk & Financial Advisory.

Larry Rosenberg

Partner | US Audit & Assurance Capital Markets leader | Deloitte & Touche LLP +1 212 436 4869 | Irosenberg@deloitte.com

Larry Rosenberg is a partner in Deloitte & Touche LLP's Audit & Assurance practice. He has extensive experience leading global audit engagements for multinational SEC registrants.

Jason Marmo

Principal | US and Global Banking & Capital Markets Tax leader | Deloitte Tax LLP +1 212 436 6570 | jmarmo@deloitte.com

Jason Marmo is a principal in the Financial Services practice of Deloitte Tax LLP. He focuses on providing consulting, compliance, and tax accounting services to multinational clients in the financial services industry.

Louis Romeo

Partner | US Banking Audit leader | Deloitte & Touche LLP +1 212 436 3632 | Iromeo@deloitte.com

Louis Romeo has over 23 years' experience serving clients in banking and capital markets. His experience includes domestic and international banks, broker-dealers, payment processing companies, leasing companies, fintech, and asset securitization vehicles.

Industry Center contacts

Jim Eckenrode

Managing director | Deloitte Center for Financial Services | Deloitte Services LP +1 617 585 4877 | jeckenrode@deloitte.com

Jim Eckenrode is a managing director within Deloitte's Research & Insights team, responsible for defining and guiding the strategy, research agenda, and marketplace deployment for the Center for Financial Services and the Center for Regulatory Strategy.

Val Srinivas, PhD

Research leader | Deloitte Center for Financial Services | Deloitte Services LP +1 212 436 3384 | vsrinivas@deloitte.com

Val Srinivas is the Banking and Capital Markets research leader at the Deloitte Center for Financial Services. He leads the development of thought leadership initiatives in the banking industry, coordinating the various research efforts and helping to differentiate Deloitte in the marketplace.

Contributors

Editorial: Karen Edelman, Hannah Bachman, Aditi Gupta, and

Emma Downey

Creative: Molly Piersol, Harry Wedel, and Meena Sonar

Cover artwork: Jim Slatton

Deloitte. Published in collaboration with Deloitte Insights. **About this publication** This publication contains general information only, and none of Deloitte Touche Tohmatsu Limited, its member firms, or its and their affiliates are, by means of this publication, rendering accounting, business, financial, investment, legal, tax, or other professional advice or services. This publication is not a substitute for such

professional advice or services, nor should it be used as a basis for any decision or action that may affect your finances or your business. Before making any decision or taking any action that may affect your finances or your business, you should consult a qualified professional adviser. None of Deloitte Touche Tohmatsu Limited, its

Deloitte refers to one or more of Deloitte Touche Tohmatsu Limited, a UK private company limited by guarantee ("DTTL"), its network of member firms, and their related entities. DTTL and each of its member firms are legally separate and independent entities. DTTL (also referred to as "Deloitte Global") does not provide services to clients. In the United States, Deloitte refers to one or more of the US member firms of DTTL, their related entities that operate using the "Deloitte" name in the United States and their respective affiliates. Certain services may not be available to attest clients under the rules and regulations of public accounting. Please see www.

member firms, or its and their respective affiliates shall be responsible for any loss whatsoever sustained by any person who relies on this publication.

deloitte.com/about to learn more about our global network of member firms.

About Deloitte