

Public Markets Update and Outlook

In 2024, the biopharma services sector underperformed the broader market, declining by 3.6%, compared to the S&P 500's gain of 24.0%.

The biopharma services industry has experienced volatility in recent years given supply-demand imbalances, driven by less public capital market funding for development stage biotechnology companies.

Despite these challenges, valuations remained strong and actually improved

compared to 2023, with EV/LTM EBITDA multiples rising to $17.5x^{(1)}$ in 2024, up from $15.5x^{(1)}$ in 2023. Additionally, on the good news front, the private biotech funding landscape improved slightly with total investment of \$38.7 billion in 2024 (up from \$33.9 in 2023).

Moreover, long-term fundamentals within the sector remain strong. Key drivers include continued outsourcing from pharma and biotech companies across the development life cycle, personalized medicine, and

advanced therapies. Additionally, pharma and biotech companies need to continue to increase returns on R&D spending given broader drug pricing pressures.

Looking ahead, we believe the biopharma services industry is gearing up for a rebound in 2025, and participants in the sector remain optimistic as outsourcing is expected to outpace overall pharmaceutical growth through 2028.



M&A Market Update

In 2024, global M&A within the biopharma services sector returned to growth, surpassing 2023 in both deal count (272 deals in 2024 vs. 267 in 2023) and value (\$24.2 billion in 2024 compared to \$20.5 billion in 2023. That said, the aggregate deal value for 2024 was mainly driven by one deal - Novo Holdings' acquisition of Catalent for \$16.7 billion.

Prominent sector deals:

In Sep-2024, Agilent Technologies acquired BioVectra, a biotechnology and pharmaceutical CDMO operating through two sites in Canada. Agilent acquired BioVectra for a total consideration of \$925.0 million, valuing the business at 8.2x revenue. The acquisition will expand Agilent's portfolio of CDMO services as it relates to sterile fill-finish, pDNA & mRNA capabilities, and lipid

Notes: Data as of Dec 31, 2024

nanoparticle (LNP) formulation. The transaction also provides Agilent with capabilities in growing modalities such as ADCs, HPAPIs, GLP-1s and gene editing.

In Oct-24, Lonza acquired Genentech's large-scale biologics site in Vacaville, CA for a total consideration of \$1.2 billion. One of the largest biologics manufacturing facilities globally, the site has a total bioreactor capacity of around 330,000 liters. The acquisition strengthens Lonza's US Biologics footprint and complements Lonza's investments in large-scale bioconjugation and drug product manufacturing in Switzerland, bolstering its ability to meet demand for comprehensive, large-scale production of complex biologics on a global scale.

In Nov-24, Ampersand Capital and GHO Capital announced the acquisition of Avid Bioservices, a dedicated CDMO focused on the development and cGMP manufacturing of biologics, for a total consideration of \$1.1 billion, valuing the business at 6.3x revenue. The transaction is expected to close in the first quarter of 2025.

In Dec-24, Novo Holdings closed its acquisition of Catalent (previously announced in Feb-24), a global CDMO operating through a network 50+ sites, for a total consideration of \$16.5 billion, valuing the business at 4.0x revenue and 42.5x EBITDA. Notably, the purchase price was a 47.5% premium to the 60-day average share price. The strategic rationale for the acquisition relates to Novo's manufacturing capacity for its GLP-1 based diabetes and obesity treatments.

⁽¹⁾ EBITDA multiples greater than 30.0x are considered as "NM" and exclude clinical trial software and other health IT-focused transactions

⁽²⁾ Includes add-on deals

Sources: Press releases, Capital IQ, MergerMarket, and PitchBook

Selected Publicly Traded Biopharma Services Companies

(US\$ in millions, except	per share a	amounts)								
					Late	est Twelve	Enterprise Value			
Company Name	Market Cap	EV (1)	Share Price	% of 52- Wk High	Revenue	Revenue Growth	EBITDA (2)	EBITDA Margin	LTM Revenue	LTM EBITDA
Charles River Labs	\$9,440	\$11,991	\$185	67.1%	\$4,050	(1.9%)	\$895	22.1%	3.0x	13.4x
Evotec	\$1,504	\$1,677	\$8	38.3%	\$867	(5.3%)	\$18	2.0%	1.9x	NM
Fortrea Holdings	\$1,673	\$2,774	\$19	45.5%	\$2,696	(13.3%)	(\$25)	-0.9%	1.0x	NM
ICON Public	\$17,314	\$20,234	\$210	60.3%	\$8,282	2.0%	\$1,708	20.6%	2.4x	11.8x
Inotiv	\$136	\$560	\$4	36.3%	\$475	(18.8%)	(\$4)	-0.9%	1.2x	NM
IQVIA Holdings	\$35,667	\$47,907	\$197	75.1%	\$15,405	2.8%	\$2,921	19.0%	3.1x	16.4x
Labcorp Holdings	\$19,180	\$25,440	\$229	92.5%	\$13,009	7.0%	\$1,700	13.1%	2.0x	15.0x
Lonza Group	\$42,705	\$44,671	\$591	90.9%	\$7,255	(2.1%)	\$2,111	29.1%	6.2x	21.2x
Medpace Holdings	\$10,303	\$9,798	\$332	72.3%	\$2,109	11.8%	\$476	22.6%	4.6x	20.6x
Siegfried Holding	\$4,667	\$5,070	\$1,088	83.0%	\$1,429	1.8%	\$307	21.5%	3.5x	16.5x
West Pharmaceutical	\$23,723	\$23,540	\$328	79.2%	\$2,893	(1.9%)	\$749	25.9%	8.1x	31.4x
Mean	\$15,119	\$17,606		67.3%	\$5,315	(1.6%)	\$987	15.8%	3.4x	18.3x
Median	\$10,303	\$11,991		72.3%	\$2,893	(1.9%)	\$749	20.6%	3.0x	16.5x

Biopharma Services Share Price Performance (FY 24)



Biopharma Services EV/LTM EBITDA Multiples (FY 24)^(2,3)



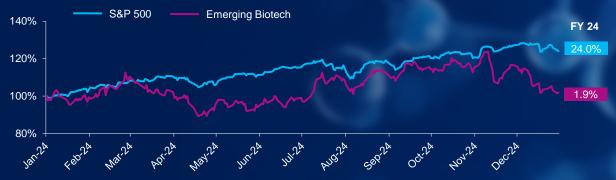
Notes: Data as of Dec 31, 2024

- (1) Novo Holdings acquisition of Catalent is still announced and not yet completed
- (2) As shown, Enterprise Value defined as Market Capitalization plus Preferred Stock and Net Debt

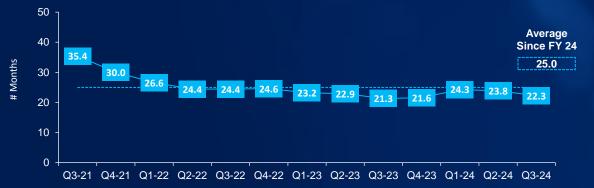
(3) EBITDA reduced to account for minority interest expense

Source: Capital IQ





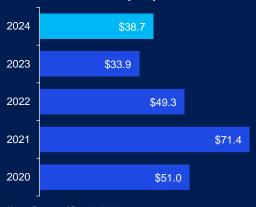
Emerging Biotech Cash Runway (1,2)



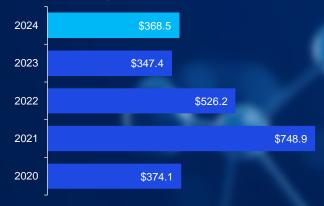
Notes: Data as of Dec 31, 2024

Biotech Venture Capital Deal Monitor

Biotech and Pharma (\$Bn)



Total VC Funding (\$Bn)



Notes: Data as of Dec 31, 2024

Source: PitchBook

Emerging biotech universe based on NASDAQ Biotech Index excluding commercial-stage companies that are profitable

Cash runway (# months) equal to cash balance / burn rate. Represents median cash runway for the emerging biotech universe (2) Source: Capital IQ

Key Trends Influencing the Evolution of the Biopharma Services Industry

The Evolution and Future Trends of AI in the Biopharma Services Industry

Artificial Intelligence (AI) is transforming the landscape for clinical trials. Notable innovations include Faro Health's Study Designer, which employs Generative AI (GenAI) to automate the creation of clinical protocol documents with high accuracy and regulatory compliance. Weave Bio offers an Al-powered platform that streamlines the drafting, reviewing, and submitting of regulatory documents in drug development, significantly enhancing the efficiency of the regulatory process. Ryght's AI platform specializes in paperwork management and other clinical trial processes, optimizing administrative workflows and reducing operational burdens. Biopharma services companies are increasingly adopting these specialized AI-enabled solutions over generalized AI offerings from large tech companies or service providers.

Generative AI (GenAI) is anticipated to continue to impact the pharmaceutical industry in 2025, significantly enhancing efficiency, reducing costs, and improving patient outcomes. This impact spans across various domains, including:

Drug Discovery and Development:Generative AI is reshaping drug discovery, with start-ups like Recursion and BenevolentAI leveraging AI to

manage drug discovery pipelines and to identify novel drug targets. Additionally, the shift from drug repurposing to the development of new drugs is expected to continue, despite legal complexities regarding AI-generated innovations' patentability.

Clinical Trials: The market for Al-based clinical trial solutions is projected to reach \$1.73 billion by 2025, growing at an expected CAGR of over 20%. Al optimizes trial design, patient recruitment, real-time data monitoring, and submission processes, potentially reducing trial costs by up to 70% and shortening timelines by as much as 80%.

Precision Medicine: Al's role in precision medicine is growing, with tools that analyze complex patient data to recommend personalized treatment plans. This trend is particularly impactful in oncology, where Al is employed to optimize drug dosing and to identify effective treatment combinations based on genetic profiles. Specifically, the application of Al in cancer diagnostics is projected to expand significantly, with a expected CAGR of over 40% from 2021 to 2028.

Regulatory Endorsements and Challenges: Regulatory bodies like NICE and the FDA are increasingly endorsing Al-based technologies for medical applications, with the FDA approving 950 Al/ML-enabled medical devices as of August 2024. Despite the promising benefits, integrating Al poses challenges, including data transparency, algorithmic biases, and ethical concerns about patient privacy and job displacement. Addressing these issues will be crucial for the industry's innovation and success.

Al's potential to generate significant economic value for the pharmaceutical sector is estimated between \$350 billion and \$410 billion annually by 2025, driven by advancements in drug development, clinical trials, precision medicine, and commercial operations. Companies that effectively integrate AI will gain a competitive edge in the evolving healthcare landscape. The anticipated advancements promise more efficient, effective, and personalized healthcare, benefiting patients and providers alike. Al's transformative potential in healthcare is just beginning to unfold, heralding a bright future.

Regulatory and Market Dynamics Shaping Global Pharmaceutical Supply Chain

The BIOSECURE Act will likely impact Chinese Contract Development and Manufacturing Organizations (CDMOs) and Contract Research Organizations (CROs) significantly, shifting the market towards geographic diversification and reconfigured supply chains due to short-term uncertainties. This will likely spur growth in regions like South Korea, India, and Southeast Asia.

Globally, CROs and CDMOs in the U.S., Europe, and Asia must quickly expand capacities to capitalize on opportunities created by these regulatory changes. Effective management of supply gaps will be essential to sustain growth prospects. The outlook for outsourced commercial manufacturing is strong, driven by robust FDA approvals and increased outsourcing by both small biotech firms and large pharmaceutical companies aiming to derisk their supply chains. Large pharmaceutical companies are also consolidating partnerships. For example, they are focusing on CDMOs proficient in ADCs, prefilled syringes, communication, and quality.

Although significant capacity expansions are underway, there are notable shortages in large-scale biologics production and aseptic fill/finish. Demand in biologics, ADCs, and prefilled syringes continues to support further expansions, with small-molecule development

regaining interest due to established scientific pathways.

The pricing environment for CDMOs is stable, with CDMOs managing to pass increased costs to customers due to their reliable quality and service. Moreover, market dynamics are shifting, with the BIOSECURE Act reducing U.S. dependency on Chinese CDMOs and fostering interest in non-Chinese CDMOs. Furthermore, M&A activities, like Novo Holdings' acquisition of Catalent, indicate a vibrant deal-making environment, particularly for high-capacity fill/finish CDMOs.

Note:

⁽¹⁾ CPHI 2025 Pharma Trends Outlook; CPHI Online Trend Report; Pharmaceutical Outsourcing & Services - William Blair, Oct 17, 2024. Sources: Press releases, Capital IQ, MergerMarket, and PitchBook.

Selected M&A Transactions (FY 2024) (1/3)

ate	Target	Buyer	PE Sponsor	Target HQ	Buyer HQ ⁽¹⁾	TEV	TEV/ Rev	TEV/ EBITDA	Outsourcing Type	Product Offerings
Dec-24	Anjac Health and Beauty Services	KKR		France	New York, NY / France	-		-	CDMO	Provides contract development, manufacturing service and analytical testing
Dec-24 ⁽³⁾	InSite Clinical Research	Adams Clinical Trials	InTandem Capital Partners	DeSoto, TX	Watertown, MA	-	-	-	CRO	Provides drug development researc services
Dec-24	NJ BIO	Suven Pharmceutica- Is		Princeton, NJ	India	\$115.0	5.3x	-	CRO	Provides integrated chemistry and biolog services to biotech as pharma sectors
Dec-24	Gannet BioChem	Ampersand Capital Partners		Huntsville, AL	Wellesley, MA	\$90.0	-	-	CDMO	Specialty CDMO focused on PEG reagents for biopharm applications
Nov-24 ⁽³⁾	Gujarat Themis Biosyn	Themis Medicare		India	India	\$413.3	NM	NM	CDMO	Manufactures pharmaceutical products, including A and formulation
Nov-24 ⁽³⁾	Avid Bioservices	Ampersand Capital Partners, GHO Capital		Tustin, CA	Wellesley, MA / United Kingdom	\$1,100.0	6.9x	-	CDMO	Provides contract manufacturing service for drug substance are biologics
Oct-24	Resonant Clinical Solutions (of Avantor)	Audax Private Equity		Leesburg, VA	Boston, MA	\$650.0	3.3x	-	CRO	Provides clinical services including kitting, biorepository, and equipment
Oct-24	Helios Global	Telemos Capital		United Kingdom	United Kingdom	\$172.7	-	13.0x	Commercialization	Provides of healthcar communications and health economics and market access solution
Sep-24 ⁽³⁾	Viyash Life Sciences	Sequent Scientific		India	India	\$458.1	-	-	CDMO	Manufactures active pharmaceutical ingredients (APIs) an intermediates
Sep-24	BioVectra	Agilent Technologies		Canada	Santa Clara, CA	\$925.0	8.2x	-	CDMO	Provides contract manufacturing service for APIs and intermediates
Jul-24 ⁽³⁾	Genuone Sciences	Macquarie Korea Asset Management		South Korea	South Korea	\$634.6	-	-	CDMO	CDMO pharmaceutic company covering wi range of drug dosage forms
Jun-24	ENCORE Research Group	Fourish Research	NMS Capital, LLC	Jacksonville, FL	New York, NY	-	-	-	CRO	Operates as a CRO with eight locations across Northern Flori
Jun-24	Clintrex Research Corporation	ToxStrategies	Renovus Capital Partners	Sarasota, FL	Katy, TX / Wayne, PA	-	-	-	CRO	Operates as a CRO to develop pathways fo new treatments for C diseases
Jun-24	CRO Research Sites ⁽²⁾	Pinnacle Clinical Research	LongueVue Capital	TX(3), SC (1), NJ (1) ⁽¹⁾	NA		-	-	CRO	Comprises clinical research sites offerir services for complex

Notes: Data as of Dec 31, 2024

⁽¹⁾ Buyer HQ shown as (Buyer Company HQ / PE Sponsor HQ)

⁽²⁾ Announced the acquisition of 5 CRO sites on the same day and the figures in the target HQ column denote the number of targets in each state. These deals are captured as separate deals in the total M&A volume stats

⁽³⁾ Deal is announced and not yet completed

Sources: Press releases, Capital IQ, MergerMarket, and PitchBook

Selected M&A Transactions (FY 2024) (2/3)

US\$ in n										
ate	Target	Buyer	PE Sponsor	Target HQ	Buyer HQ ⁽¹⁾	TEV	TEV/ Rev	TEV/ EBITDA	Outsourcing Type	Product Offerings
Jun-24	Pro-Ficiency Holdings	Simulations Plus		Raleigh, NC	Lancaster, CA	\$100.2	6.7x	-	Digital Solutions	Operates as a platforr to offer unique insight for clinical trials and medical affairs
Jun-24	Fortrea Patient Access/Endpoint Clinical	Arsenal Capital Partners		Wakefield, MA	New York, NY	\$345.0	1.4x	11.5x	CRO	Provides Randomisation and Trial Supply Management solution
Jun-24	Aparito	Eli Lilly and Company		United Kingdom	Indianapolis, IN	-	-	-	Digital Solutions	Engages in digitizing clinical trials to streamline drug development
Jun-24	Sensified	ClinicalMind	Renovus Capital Partners	Raleigh, NC	New York, NY / Wayne, PA	-	-	-	Commercialization	Operates as a full- service healthcare communications company
Jun-24	Inventia Healthcare	Platinum Equity		India	Los Angeles, CA	\$400.0	4.6x	18.4x	CDMO	Manufacturer of nove drug delivery systems
Jun-24	North Georgia Clinical Research	Alcanza Clinical Research	Martis Capital	Woodstock, GA	Lake Mary, FL / Washington, DC	-	-	-	CRO	Offers clinical researd services
May-24	Algorics	Precision Medicine Group	Blackstone	Piscataway, NJ	Bethesda, MD / New York, NY	-	-	-	Digital Solutions	Developer of clinical analytics solutions ar software to the life sciences industry
May-24	Biocentric	Jones Public Affairs		Collingswood, NJ	Washington, DC	-	-	-	Commercialization	Operates as a medica communication platfo
Лау-24 ⁽²⁾	I'rom Group	The Blackstone Group (HK)		Japan	Hong Kong	\$289.3	2.5x	20.0x	CRO	Provides clinical trial management service to pharma and biotec companies
May-24	Elixia	American Clinical Research Services Holdings	Latticework Capital	Hollywood, FL	Dallas, TX	-	-	-	CRO	Provides patient recruitment and clinic trials management services
May-24	Advance Research Associates	Ephicacy Consulting Group	Great Point Partners	Santa Clara, CA	Iselin, NJ	-	-	-	CRO	Provider of data management and biostatistical consulti services for clinical tr
May-24	Kansas City Research Institute	Alcanza Clinical Research	Martis Capital	Kansas City, MO	Lake Mary, FL / Washington, DC	-	-	-	CRO	Operates as a clinical research center that conducts clinical trial for multiple condition
Apr-24	FDI Clinical Research	Alcanza Clinical Research	Martis Capital	San Juan, PR	Lake Mary, FL / Washington, DC	-	-	-	CRO	Offers CRO services multiple conditions
Mar-24	Biologics Manufacturing Facility of Genentech	Lonza Group		Vacaville, CA	Switzerland	\$1,200.0	-	-	CDMO	Biologics Manufactur Facility in Vacaville, California, of Genent

Notes: Data as of Dec 31, 2024

⁽¹⁾ Buyer HQ shown as (Buyer Company HQ / PE Sponsor HQ)

⁽²⁾ Deal is announced and not yet completed

Sources: Press releases, Capital IQ, MergerMarket, and PitchBook

Selected M&A Transactions (FY 2024) (3/3)

(US\$ in r	millions)									
Date	Target	Buyer	PE Sponsor	Target HQ	Buyer HQ ⁽¹⁾	TEV	TEV/ Rev	TEV/ EBITDA	Outsourcing Type	Product Offerings
Feb-24	Pharmasite Research	Headlands Research	Kohlberg Kravis Roberts	Pikesville, MD	Lake Worth, FL / New York, NY	-	-	-	CRO	Offers phase II-IV clinical trials evaluating treatments for mental health disorders
Feb-24	Societal CDMO	CoreRx	QHP Capital	Exton, PA	Clearwater, FL / Raleigh, NC	\$165.7	1.8x	23.3x	CDMO	Small molecules focused CDMO service
Feb-24	EmVenio Research	PCM Trials		Durham, NC	Denver, CO	-	-	-	CRO	Offers hybrid decentralized trial solutions to improve clinical trial access
Feb-24	Univo	QHP Capital		Raleigh, NC	Raleigh, NC	-	-	-	Commercialization	Offers institutional review board services
Feb-24	FORCE Communications	Petauri	Oak Hill Capital	Carmel, IN	Nashville, TN	-	-	-	Commercialization	Offers medical marketing and communication service
Feb-24	Continuum Clinical	Spectrum Science Communicatio ns		Northbrook, IL	Washington, DC	-	-	-	CRO	Provides patient recruitment and medica communication solutions
Feb-24	Catalent	Novo Holdings		Somerset, NJ	Denmark	\$16,475.3	4.0x	42.5x ⁽³⁾	CDMO	Operates as a CDMO and offer its services to global pharma and biotech companies
Jan-24	Promedica International	iuvo BioScience	Ampersand Capital Partners	Costa Mesa, CA	Rush, NY / Wellesley, MA		-	-	CRO	Offers contract researc organization (CRO) services to pharma and biotech companies
Jan-24	Clinical Trial Service	PCM Trials		Netherlands	Denver, CO	-	-	-	CRO	Offers clinical research services
Jan-24	Accelera S.r.l.'s Bioanalytical and DMPK Businesses	Frontage Laboratories		Italy	Exton, PA	-	-	-	CRO	Provider of bioanalytica and pharmacokinetics services

Notes: Data as of Dec 31, 2024

⁽¹⁾ Buyer HQ shown as (Buyer Company HQ / PE Sponsor HQ)

⁽²⁾ Deal is announced and not yet completed

⁽³⁾ Included only for presentation purpose. EBITDA multiples greater than 30.0x are considered as "NM" for calculating average deal multiples Sources: Press releases, Capital IQ, MergerMarket, and PitchBook

KPMG Corporate Finance* Selected Life Sciences Transactions



^{*}Represents the global Corporate Finance practice of KPMG International's network of independent member firms

KPMG Corporate Finance LLC U.S. Healthcare Investment Banking Team



Jason Moran

Managing Director & Group Head

T: 415-963-7353

E: jasonmoran@kpmg.com



Walter J. Olshanski

Managing Director

T: 646-874-4878

E: wolshanski@kpmg.com



Brian Flanagan

Vice President

T: 312-665-3921

E: bflanagan1@kpmg.com



Patrick Masciangelo

Vice President

T: 312-665-3895

E: pmasciangelo@kpmg.com



Michael Cordaro

Vice President

T: 212-763-5408

E: mcordaro@kpmg.com



Nicholas Schmidt

Senior Associate

T: 312-665-1000

E: naschmidt@kpmg.com

Global coverage. Industry knowledge. Middle-Market focus.

The global Corporate Finance practices of KPMG International's network of independent member firms was ranked #1 as the top M&A middle-market adviser globally by Refinitiv based on number of completed transactions, for 2017 to 2021.

KPMG Corporate Finance LLC was recently named Transaction Advisory Firm of the Year by The Global M&A Network, and previously named investment Bank of the Year by the M&A Advisor. KPMG Corporate Finance LLC provides a broad range of investment banking and advisory services to its domestic and international clients. Our professionals have the

experience and depth of knowledge to advise clients on global mergers and acquisitions, sales and divestitures, buyouts, financings, debt restructurings, equity recapitalizations, infrastructure project finance, capital advisory, portfolio solutions, fairness opinions, and other advisory needs.

2000-2024 glob	2000-2024 global advisor ranking ⁽¹⁾						
1	KPMG*	11,358					
2	PwC	10,626					
3	Houlihan Lokey	7,676					
4	UBS	7,629					
5	Deloitte	7,037					
6	Ernst & Young LLP	6,721					
7	Rothschild & Co	6,375					
8	JP Morgan	5,101					
9	Goldman Sachs & Co	4,708					
10	Lazard	4,575					

Note: (1) League tables include completed deals which have value between \$0 million to \$500 million and also where deal value is not disclosed. *Represents the global Corporate Finance practice of KPMG International's network of independent member firms



Important Notice

The KPMG name and logo are trademarks used under license by the independent member firms of the KPMG global organization.

The information contained in this newsletter is of a general nature and is not intended to address the circumstances of any particular individual or entity including their investment objectives or financial needs. In preparing this newsletter, we have relied upon and assumed, without independent verification, the accuracy and completeness of all information available from public sources. Although we endeavor to provide accurate and timely information, there can be no guarantee that such information is accurate as of the date it is received or that it will continue to be accurate in the future. No one should act or rely on the information in this newsletter without appropriate professional advice after a thorough examination of the particular situation. The information contained in this newsletter does not constitute a recommendation, offer, or solicitation to buy, sell or hold any security of any issuer. Past performance does not guarantee future results.

Some or all of the services described herein may not be permissible for KPMG audit clients and their affiliates or related entities.

Some or all of the services described herein may not be permissible for KPMG audit clients and their affiliates or related entities.

Learn about us:



kpmg.com

The information contained herein is of a general nature and is not intended to address the circumstances of any particular individual or entity. Although we endeavour to provide accurate and timely information, there can be no guarantee that such information is accurate as of the date it is received or that it will continue to be accurate in the future. No one should act upon such information without appropriate professional advice after a thorough examination of the particular situation.

©2025 KPMG Corporate Finance LLC, a Delaware limited liability company. Member FINRA/SIPC. KPMG Corporate Finance LLC is a subsidiary of KPMG LLP, a Delaware limited liability partnership and a member firm of the KPMG global organization of independent member firms affiliated with KPMG International Limited, a private English company limited by guarantee. KPMG Corporate Finance LLC is not engaged in the business of public accountancy. All rights reserved.

The KPMG name and logo are trademarks used under license by the independent member firms of the KPMG global organization.