



Specialist Investment Banking for
Healthcare and Life Sciences

Global Life Sciences Outsourcing: Targeting the USD 425 Billion CRO and CDMO Opportunity

An Analysis of Key Trends and
M&A Deal Activity

May 2024



Introduction

In an era marked by rapid advancements and increasing complexities in drug development, the Life Sciences Outsourcing sector, comprising Contract Development and Manufacturing Organizations (CDMOs) and Contract Research Organizations (CROs), stands at the forefront of enabling pharmaceutical and biotech companies to accelerate their journey from discovery to delivery.

This research report delves into the pivotal trends shaping the market, provides a comprehensive analysis of the services landscape, and evaluates the financial performance of the sector in comparison with broader market indices.

Key Sections:

- **Major Market Trends:** Insight into the latest developments driving growth and innovation in the CDMO and CRO sectors
- **CDMO and CRO Services Overview:** A detailed exploration of the spectrum of services offered, highlighting the critical role these organizations play in the drug development lifecycle
- **Financial Analysis:** An examination of the EV/EBITDA ratios for selected listed CDMO and CRO companies versus the S&P 500, providing a lens to assess the sector's financial health and investment appeal
- **M&A Drivers:** Our research report distills key M&A drivers in life sciences, profiling acquirers from pharma to Private Equity companies and their goals, while pinpointing global M&A hotspots and regional trends

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About Technology Holdings

TH Healthcare & Life Sciences is a division of **Technology Holdings, a global investment bank** focused exclusively on providing M&A advisory, growth equity solutions, private equity advisory and growth consulting to **Healthcare & Life Sciences**, technology services, business process management, consulting and technology companies globally.

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MUMBAI

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PARIS

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MUNICH

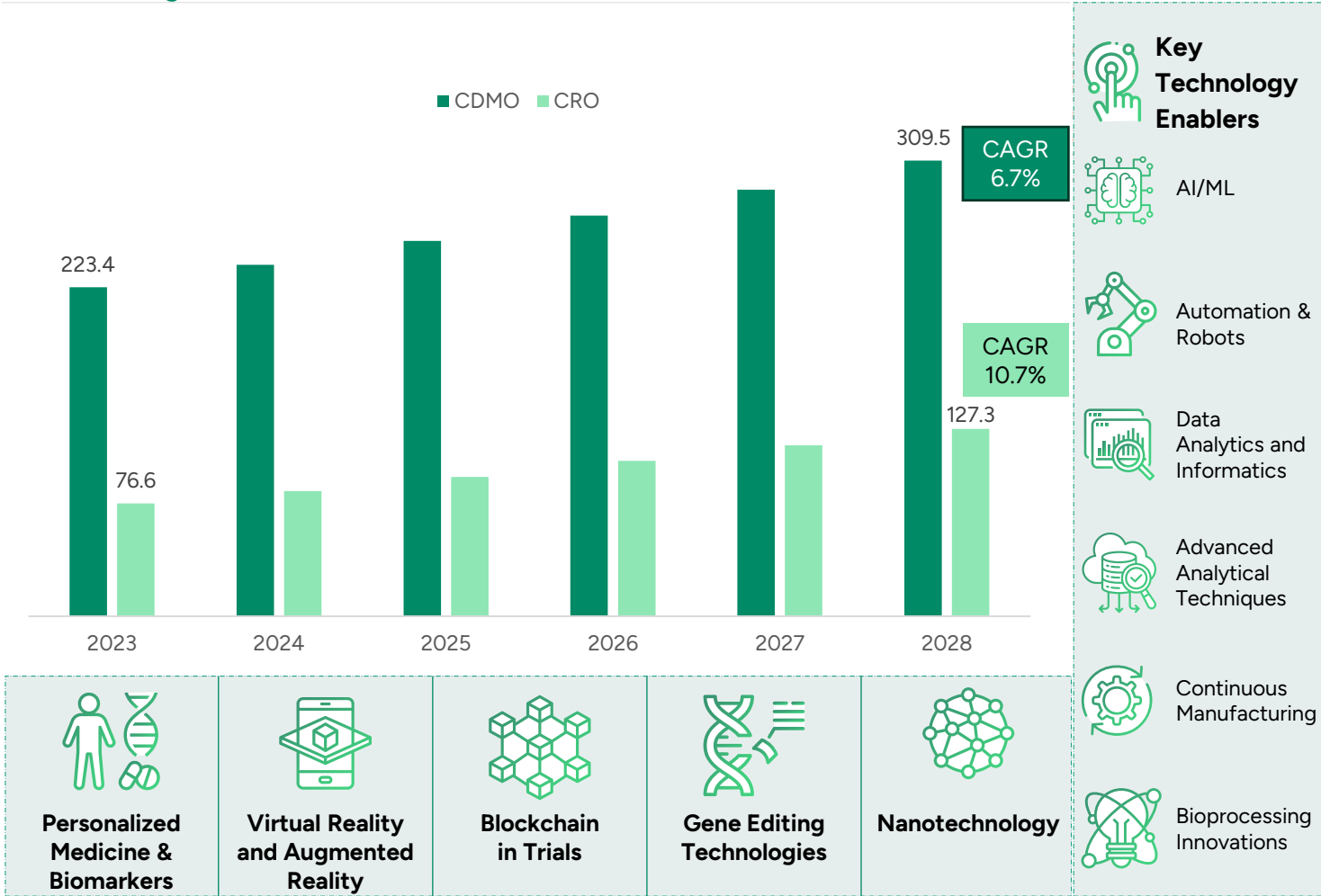
BENGALURU

KOLKATA

Market Snapshot : Drivers of CDMO & CRO Growth

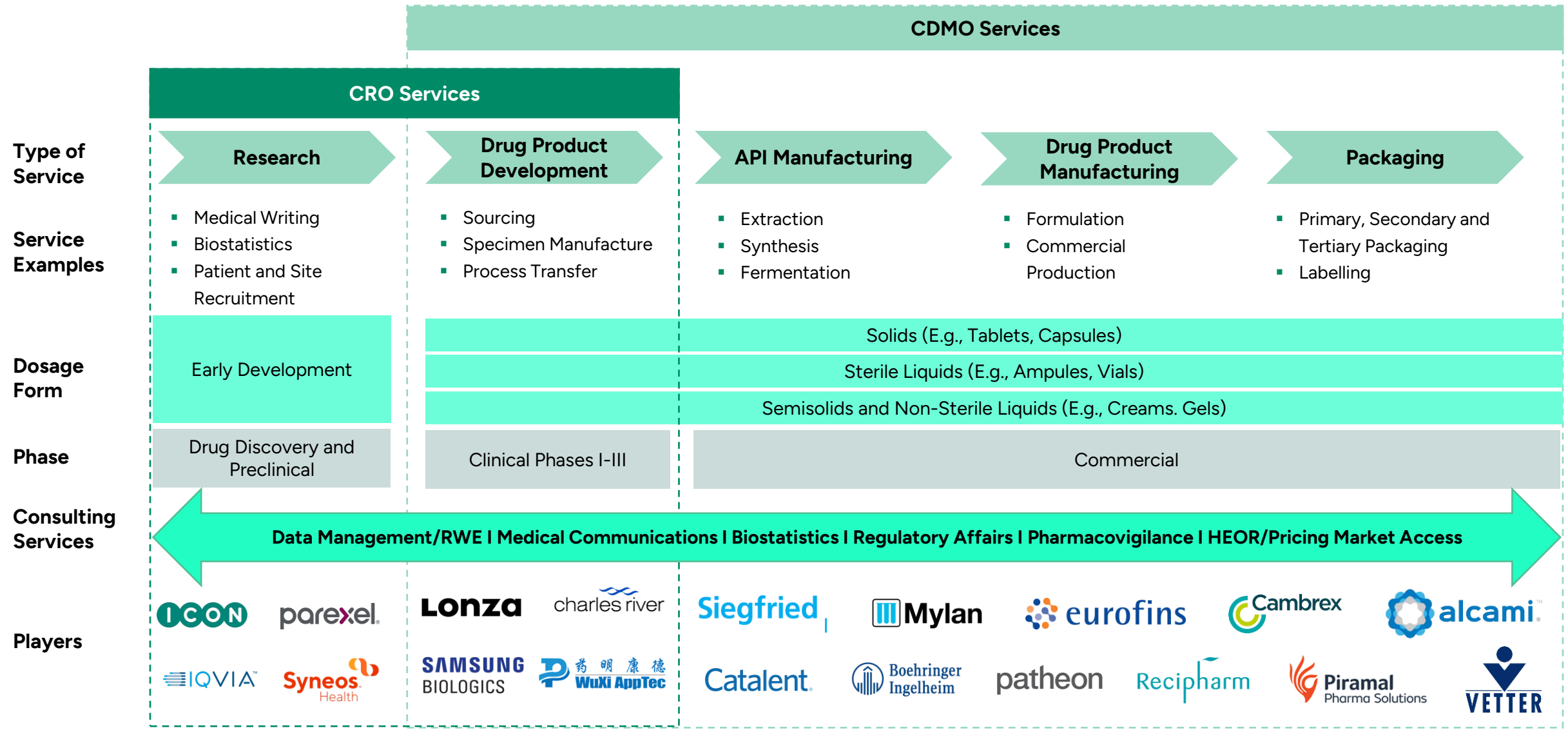
- The COVID-19 pandemic accelerated digital transformation across the CDMO and CRO sectors, increasing demand for agile, **technology-driven clinical development services**
- CDMO market forecasted to reach **US \$309.5 Billion by 2028**, with new manufacturing technologies and a surge in **small & medium-sized pharma driving growth**
- CRO market growth to **US\$127.3 Billion by 2028**, fueled by **increasing clinical trials**, especially in **oncology**, and a focus on **novel trial designs**
- Demand for outsourced services in Asia, particularly **India** and **China**, is growing due to **cost advantages** and expanding **R&D capabilities**
- **Data management** in CROs is witnessing the highest growth rate, highlighting the critical role of quality data in **drug development** and **regulatory compliance**
- The integration of **AI/ML** and **blockchain** technologies is set to revolutionize data management, enhancing efficiency and **security** in **clinical trials**
- **Continuous manufacturing** and **advanced bioprocessing** innovations are becoming central to CDMOs, aiming for cost reduction and improved drug quality

Figure 1: CDMO and CRO Market Size and Growth in USD Billion



Market expected to grow to US \$309.5B for CDMOs and US\$127.3B for CROs by 2028

CDMO and CRO Services Landscape



Revenue-Based Segmentation in CRO & CDMO Services Landscape



Consolidation beckons as vendors seek to span the full value chain

Key Trends Shaping the CDMO Landscape



Customer-Driven Manufacturing Transformation

- The shift towards becoming **customer-driven** manufacturing organizations (CDMOs) emphasizes **customer-centricity** in all operations. This approach, focusing on **transparency**, **collaboration**, and continuous improvement, aims to deepen partnerships and drive innovation tailored to client needs

1



Digitalization and Technological Integration

- Embracing digital technologies for improved **data management**, **process automation**, and enhanced **collaboration** is becoming a cornerstone of CDMO operations. This **digital shift** is crucial for **optimizing processes**, ensuring **quality**, and maintaining **competitiveness** in a fast-evolving landscape

2



Agile Manufacturing Adoption

- The CDMO sector is increasingly adopting **agile manufacturing practices**, including multi-use platforms and flexible facility designs. This trend allows for rapid response to market changes and **regulatory demands**, enhancing **operational efficiency** and reducing **time-to-market** for new therapies

3



Emphasis on Advanced Manufacturing and Data Analytics

- The industry is focusing on **advanced manufacturing** technologies, such as continuous manufacturing and bioprocessing innovations, coupled with data analytics and automation. These technologies are critical for increasing **production efficiency**, ensuring **product quality**, and enabling the development of **complex biologics** and **personalized medicines**

4

Market Drivers



Increasing pharmaceutical R&D investments



Increasing outsourcing services by pharmaceutical companies



Rising investments in R&D
Growing consumption of biopharmaceuticals



Increasing demand for one-stop-shop CDMOs

Embracing innovation and customer centricity paving the way for CDMO growth

Key Trends Shaping the CRO Industry



Data Management and Analytics Surge

- The increasing need for high-quality **data generation** and **analysis** for **clinical trials** underpins the market's growth. Enhanced **data management services**, leveraging **big data** and **analytics**, are crucial for informed decision-making and **optimizing clinical trial** processes

1



Hybrid Models and FSP Engagements

- There's a significant shift towards **hybrid models** that combine **functional service provider (FSP)** engagements with traditional **full-service outsourcing (FSO)**. This approach allows biopharmaceutical companies to maintain control over their data while benefiting from the expertise and efficiency of CROs

2



Advanced Therapies on the Rise

- The focus on **cell and gene therapies (CGT)** and **RNA therapies** reflects the industry's move towards more **complex clinical trials**. These therapies require specialized expertise, innovative **patient recruitment strategies**, and a deep understanding of **regulatory landscapes**, driving demand for CRO services equipped to handle such complexities

3



Digital Engagement and Virtual Trials

- The pivot towards **digital engagement strategies** and **virtual clinical trials** has been accelerated by the pandemic. This trend includes the use of digital tools for patient recruitment, remote monitoring, and data collection, aiming to improve efficiency and patient experience in clinical trials

4

Key Challenges



Integrating Advanced Technologies with Clinical Trials



Navigating Macroeconomic Pressures



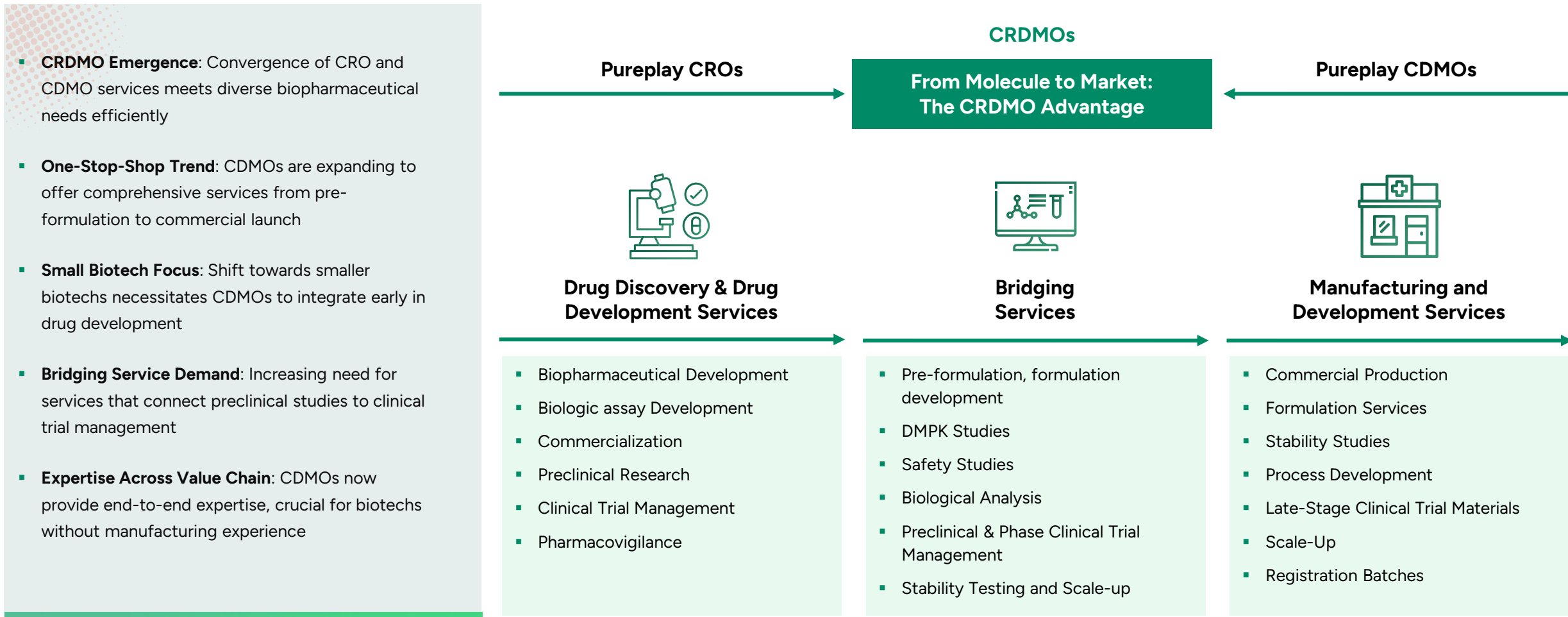
Overcoming the acute scarcity of skilled professionals in critical research



Adapting clinical trials to prove drug value in a cost-conscious healthcare system

How Data Analytics, Hybrid Models, and Advanced Therapies are Redefining Clinical Research Outsourcing

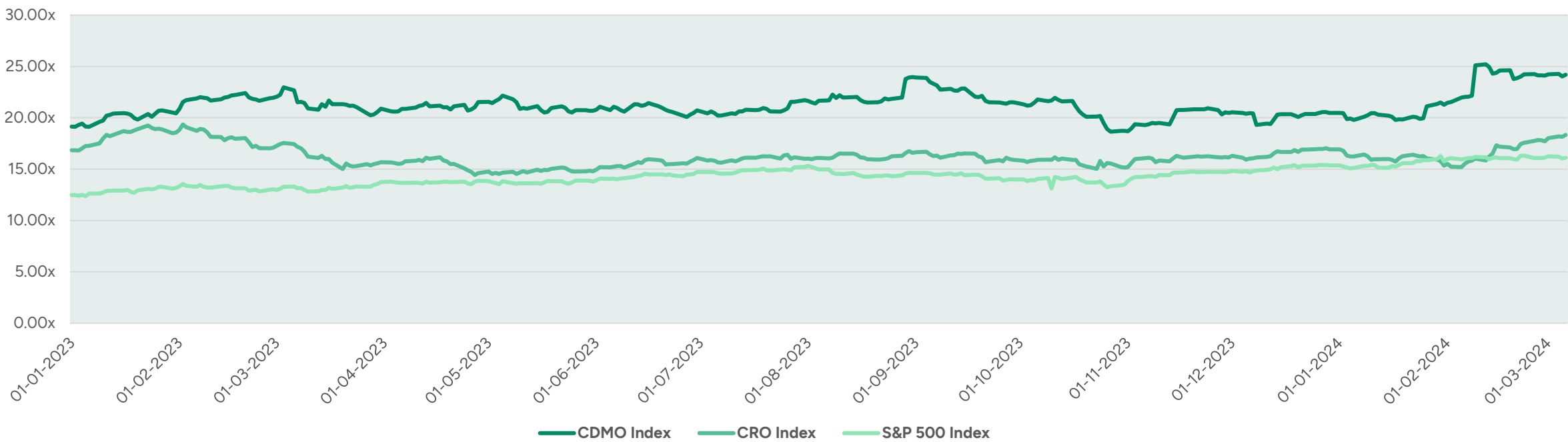
Synergizing Spheres: The Rise of CRDMO Models



CRDMOs: Bridging gaps, creating unified drug development pathways

Valuation Dynamics: CDMO and CRO Sector Performance

Figure 2: EBITDA Multiples Comparison for Select CDMO Index vs CRO Index



- CDMO index outperformed S&P 500, EBITDA multiples growing **from 19.4x to 24.2x** (Jan 2023-Mar 2024), reflecting high investor confidence and demand.
- CRO index showed resilience with a slight dip, recovering **from 15x to 18x**, underscoring sustained demand despite short-term fluctuations

Global CDMO Index: Balchem (Nasdaq: BCPC), Thermo Fisher Scientific (NYSE: TMO), Catalent Inc (NYSE: CTLT), Eurofins (ENXTPA: ERF), Lonza (SWX: LONN), Siegfried Holdings (SWX:SFZN), West Pharmaceutical Services (NYSE:WST), Samsung Biologics (KOSE:A207940)

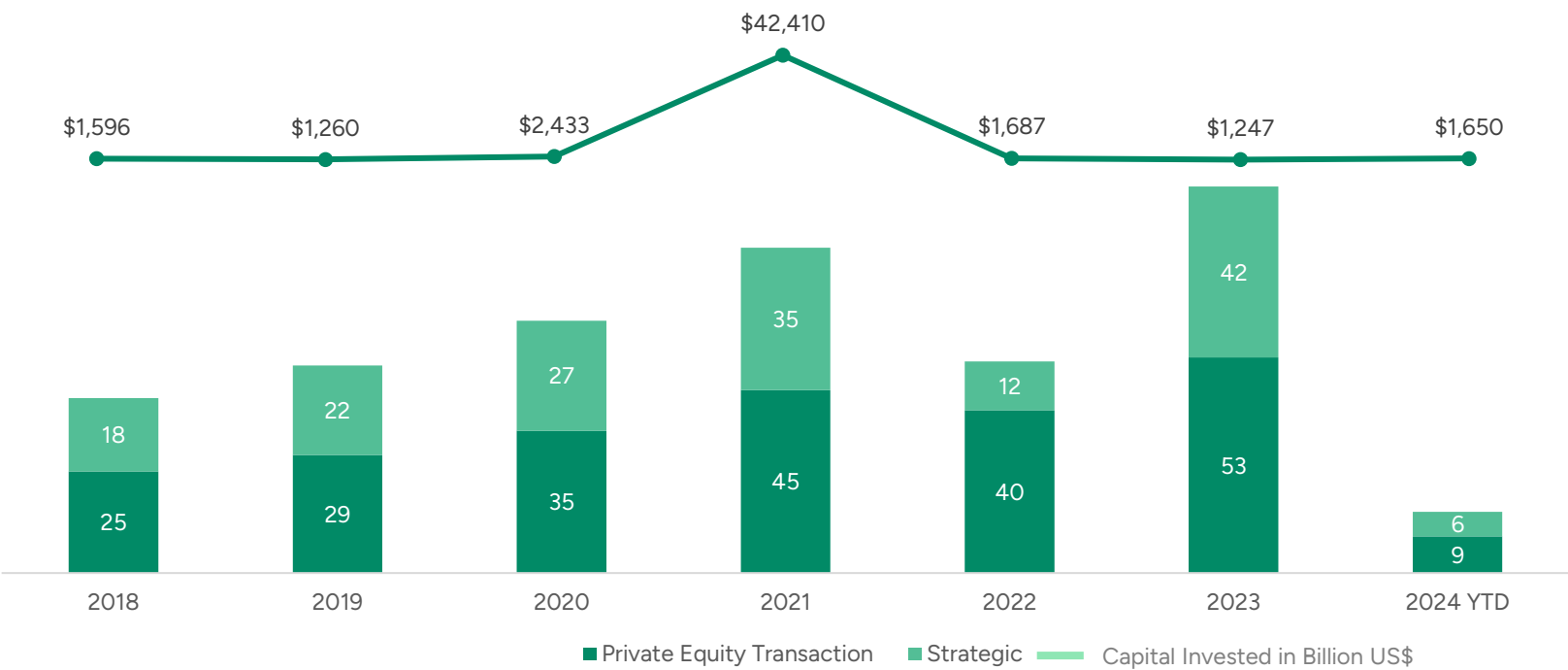
Global CRO Index: ICON (NasdaqGS: ICLR), IQVIA (NYSE: IQV), LabCorp (NYSE: LH), Medspace (Nasdaq: MEDP), Charles River (NYSE: CRL), Syneos (NasdaqGS: SY), Ergomed (NasdaqGS: SY), Wuxi Aptec (SHSE:603259)

Premium valuation to the market despite headwinds in these past 18 months

M&A Activity Trends: Consolidation for driving efficiencies and being full-service providers

- PE interest in CRO/CDMOs climbed from 2018's **25 M&A deals** to **53** in 2023, showcasing strong sector allure
- Strategic M&A peaked in 2021 with major consolidations amid post COVID environment , highlighted by the US **\$42.4 Billion** capital raised
- Despite a 2022 dip, 2023's M&A rebound, including Catalent's **US \$16.5 Billion** acquisition, indicates a vigorous market
- Early 2024 maintains this trend, with robust financing, suggesting **resilience and investor confidence** in the sector
- The acquisition spree reflects pharmaceuticals' deft navigation of inflation and high rates, unlike other sectors

Figure 3: Number of M&A Transactions : 2018-2024



Year-Wise M&A Transactions

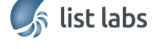
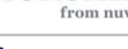
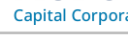
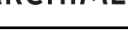
398
2018-YTD 24

52
2022

95
2023

2024 is set for further deal activity led by financial sponsors

M&A Activity Analysis: (Jan 2023 – Apr 2024) (1/4)

Deal Date	Companies	Specialization	Investors	Country
Growth Funding				
Apr-2024	 CONTRACT PHARMA	CDMO	 Aterian INVESTMENT PARTNERS	
Apr-2024	 Curida	CDMO	 SIGNET Healthcare Partners	
Apr-2024	 list labs	CDMO	 Hana Ventures	
Mar 2024	 E PHARMA	CDMO	 Vistin Pharma	
Feb 2024	 ABJ ALIVE	CDMO	 NORD HOLDING	
Feb 2024	 Catalent	CDMO	 novo holdings	
Jan 2024	 Afton Scientific	CDMO	 A C P	
Jan 2024	 oncodesign services	CRO - Drug Discovery	 EURAZEO	
Jan 2024	 SYNERGY HEALTH	CRO - Drug Discovery	 astorg.	
Jan 2024	 CREAPHARM GROUP	CDMO	 IDI Group	
Dec 2023	 Worldwide Clinical Trials	CRO - Pre-Clinical	 KOHLBERG & COMPANY	
Dec 2023	 Clinres	CRO - Clinical	 CHURCHILL from nuveen	
Dec 2023	 Worldwide Clinical Trials	CRO - Full Service	 BLUE OWL Capital Corporation	
Nov 2023	 VIVA	CDMO	 HLC 弘晖资本 HIGHLIGHT CAPITAL	
Nov 2023	 Symbio PROINNOVERA	CRO - Clinical	 ARCHIMED	

Deal Date	Companies	Specialization	Investors	Country
Nov 2023	 Augustresearch	CRO - Full Service	 A C P	
Nov 2023	 天勤生物 TOPGENE BIOTECHNOLOGY	CRO - Pre-Clinical	 ventures	
Nov 2023	 CERTANIA	CRO - Full Service	 SUMMIT PARTNERS	
Oct 2023	 BANDOOK GROUP	CRO - Clinical	 MOTION EQUITY PARTNERS Investing in progress	
Oct 2023	 On	CRO - Clinical	 Ampersand	
Oct 2023	 NewChem TECHNOLOGIES LIMITED	CRO - Full Service	 ALP INVEST	
Oct 2023	 ASC Applied StemCell	CDMO	 QIP CAPITAL	
Oct 2023	 Eximia CLINICAL RESEARCH	CRO - Clinical	 LAPA CAPITAL	
Sep 2023	 ICCR ROBDORF	CRO - Pre-Clinical	 ARDIAN	
Sep 2023	 和泽医药 HEZE PHARMACEUTICAL	CRO - Full Service	 CIC	
Sep 2023	 ERGOMED	CRO - Clinical	 PERMIRA	
Sep 2023	 SE	CDMO	 SYNOKEM PHARMACEUTICALS LTD.	
Sep 2023	 SocraTec R&D	CRO - Full Service	 CERTANIA	
Aug 2023	 mithra Women's Health	CDMO	 ARMISTICE	
Aug 2023	 JCCT	CRO - Clinical	 FFL PARTNERS	

M&A Activity Analysis: (Jan 2023 – Apr 2024) (2/4)

Deal Date	Companies	Specialization	Investors	Country
Aug 2023	 中国生物 CNBG	CRO - Pre-Clinical	 CORNING	
Jul 2023	 QUASAR	CDMO	 BOYU	
Jul 2023	 AUS Trials	CRO - Clinical	 GENESIS CAPITAL	
Jun 2023	 IVA	CDMO	 TEMASEK	
Jun 2023	 宝济药业 BAO PHARMA	CRO - Full Service	 Addentax ATXG	
Jun 2023	 COMAC MEDICAL EXPERTS IN CLINICAL RESEARCH	CRO - Clinical	 EDGE CAPITAL GROUP	
Jun 2023	 4PHARMA	CRO - Clinical	 BC Platforms	
May 2023	 TRACON F H A R M A	CRO - Clinical	 LPC LINCOLN PARK CAPITAL	
May 2023	 Cilatus MANUFACTURING SERVICES A ProductLifeGroup Company	CRO - Consulting	 21 Invest	
May 2023	 ALLIANCE Clinical Network	CRO - Clinical	 AMULET CAPITAL PARTNERS LP	
May 2023	 biose INDUSTRIE Your global CDMO for Microbiome Therapeutics	CDMO	 bpifrance	
May 2023	 Syneos Health	CRO - Clinical	 ELLIOTT	
May 2023	 P95	CRO - Clinical	 Ampersand	
May 2023	 CORIPHARMA	CDMO	 columbia VENTURES	
Apr 2023	 CORIPHARMA	CDMO	 KV:KA K O M P A N Y	

Deal Date	Companies	Specialization	Investors	Country
Apr 2023	 CONCEPT LIFE SCIENCES	CRO - Drug Discovery	 LIMERSTON CAPITAL	
Apr 2023	 CENTRAL RESEARCH ASSOCIATES	CRO - Drug Discovery	 FLOURISH RESEARCH	
Mar 2023	 TRACON F H A R M A	CDMO	 opaleye	
Mar 2023	 ALPHA OMEGA INSTITUTION	CDMO	 ALTO PARTNERS	
Feb 2023	 PORSOLT SCIENTIST TO SCIENTIST	CRO - Pre-Clinical	 Apax	
Feb 2023	 PORSOLT SCIENTIST TO SCIENTIST	CRO - Pre-Clinical	 seven2	
Feb 2023	 STEM EXCEL	CRO - Clinical	 CICC 中金公司	
Feb 2023	 Sabai Global	CRO - Clinical	 THOMPSON STREET CAPITAL PARTNERS	
Feb 2023	 BociMed 博志研新	CRO - Drug Discovery	 国鑫投资 GUOXIN INVESTMENT	
Jan 2023	 sb drug discovery A Signature Discovery business	CRO - Drug Discovery	 Five Arrows Principal Investments	
Jan 2023	 PROTEROS REACH RIGHT FASTER	CRO - Pre-Clinical	 inflexion	
Jan 2023	 Lifecore BIOMEDICAL	CDMO	 325 CAPITAL	
Jan 2023	 EAST HORN Global Business in Q1	CRO - Clinical	 GIC	
Jan 2023	 S-CUBED	CRO - Full Service	 charterhouse	
Jan 2023	 alcami	CDMO	 Ampersand	

M&A Activity Analysis: (Jan 2023 – Apr 2024) (3/4)

Deal Date	Companies	Specialization	Investors	Country
Portfolio Extension				
Mar 2024		CRO		
Nov 2023		CRO - Full Service		
Nov 2023		CDMO		
Aug 2023		CRO - Pre-Clinical		
Aug 2023		CRO – Clinical		
Aug 2023		CRO - Pre-Clinical		
Aug 2023		CRO – Consulting		
Jul 2023		Clinical Trial IT & Software		
Jun 2023		Clinical Trial IT & Software		
Jun 2023		Clinical Trial IT & Software		
Jun 2023		CRO - Pre-Clinical		
Jun 2023		CRO – Clinical		

Deal Date	Companies	Specialization	Investors	Country
May 2023		CRO – Clinical		
May 2023		CRO - Clinical		
Apr 2023		Clinical Trial IT & Software		
Apr 2023		CRO - Clinical		
Mar 2023		CRO - Drug Discovery		
Mar 2023		CDMO		
Mar 2023		CRO – Clinical		
Mar 2023		Clinical Trial IT & Software		
Mar 2023		CRO – Consulting		
Jan 2023		CRO - Pre-Clinical		
Jan 2023		CRO - Pre-Clinical		
Jan 2023		CRO – Clinical		

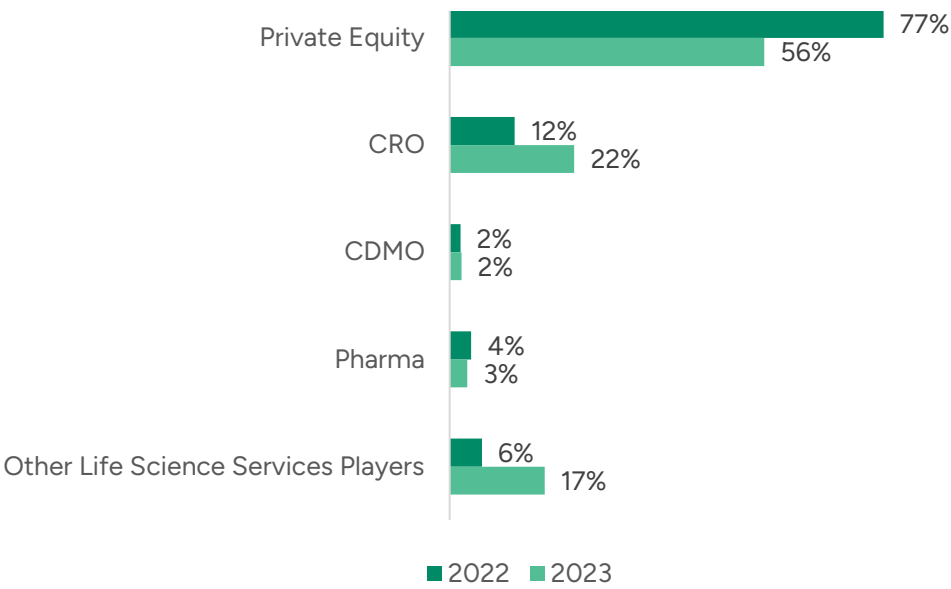
M&A Activity Analysis: (Jan 2023 – Feb 2024) (4/4)

Deal Date	Companies	Specialization	Investors	Country
Market Expansion				
Mar 2024*	 Vistin Pharma	CRO - Clinical	 cfpharma+	
Jan 2024	 CSI Medical Research we bring innovation to trials	CRO – Clinical	 ClinChoice	
Jan 2024	 CMIC	Both	Hokuto Management	
Aug 2024	 NUCHEM SCIENCES	CRO - Drug Discovery	 SYGNATURE DISCOVERY	
Jul 2023	 CRI	CRO – Clinical	 NAMSA	
Jun 2023	 GeneCradle	CDMO	 GeneCradle 锦 基 基 因	
Jan 2023	 martifarm	CRO - Pre-Clinical	 Tigermmed	
Jan 2023	 sb DRUG DISCOVERY	CRO - Pre-Clinical	 SYGNATURE DISCOVERY	
Jan 2023	 Oncolines A SYMERES COMPANY	CRO - Pre-Clinical	 Symeres	
Jan 2023	 OncoBay CLINICAL	CRO - Full Service	 MOFFITT CANCER CENTER	

Deal Date	Companies	Specialization	Investors	Country
Capacity Expansion				
Mar 2024	 DNA Sense	CRO - Pre-Clinical	 clinical microbiomics	
Aug 2023	 NUCRO TECHNIQS	CRO – Clinical	 FRONTAGE	
Jul 2023	 PrecisionMed	CRO - Pre-Clinical	 BIOIVT ELEVATING SCIENCE	
May 2023	 Corden Pharma	CDMO	Kavis Pharma	
Apr 2023	 reachbio RESEARCH LABS	CRO - Drug Discovery	 DISCOVERY LIFE SCIENCES	
Apr 2023	 CLINERION Real World Data Solutions	CRO – Clinical	 TriNetX	
Jan 2023	 ASPEN RESEARCH	CRO - Pre-Clinical	 H.B. Fuller	
Vertical Integration				
Jun 2023	 KGK Science	CRO – Clinical	Cardinal Group MANAGEMENT	
May 2023	nutrasurce	CRO – Consulting	 SGS	
May 2023	 JSS	CRO – Clinical	 GENESIS DELIVERING INNOVATION & DEVELOPMENT	
Mar 2023	 CROM SOURCE	CRO – Clinical	 ClinChoice	
Feb 2023	 maxis	CRO - Pre-Clinical	 AVANIA	

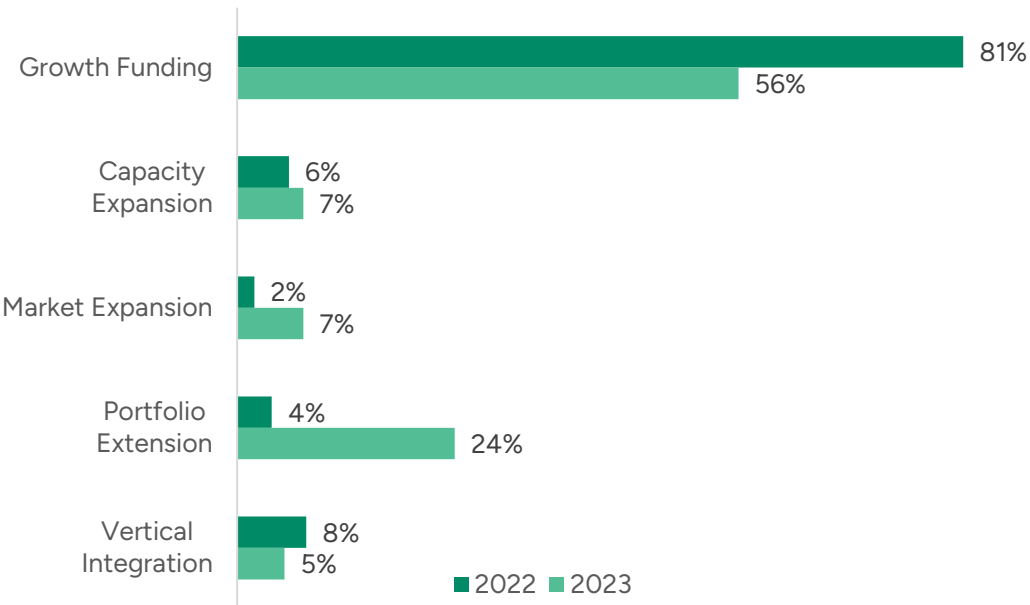
M&A Activity : Buyer Types and M&A Rationale in Life Sciences Outsourcing

Figure 4: M&A's (%) by Buyers - CY 2022 vs CY 2023



- The buyer landscape evolved, with PE deals decreasing to **56% in 2023** from **77% in 2022**, while acquisitions by large CROs notably increased, highlighting a diversification in the types of entities investing in the sector
- CDMO participation in acquisitions held steady at **2%**, indicating a consistent, albeit niche, role in sector consolidation efforts

Figure 5: M&A's (%) by Rationale - CY 2022 vs CY 2023



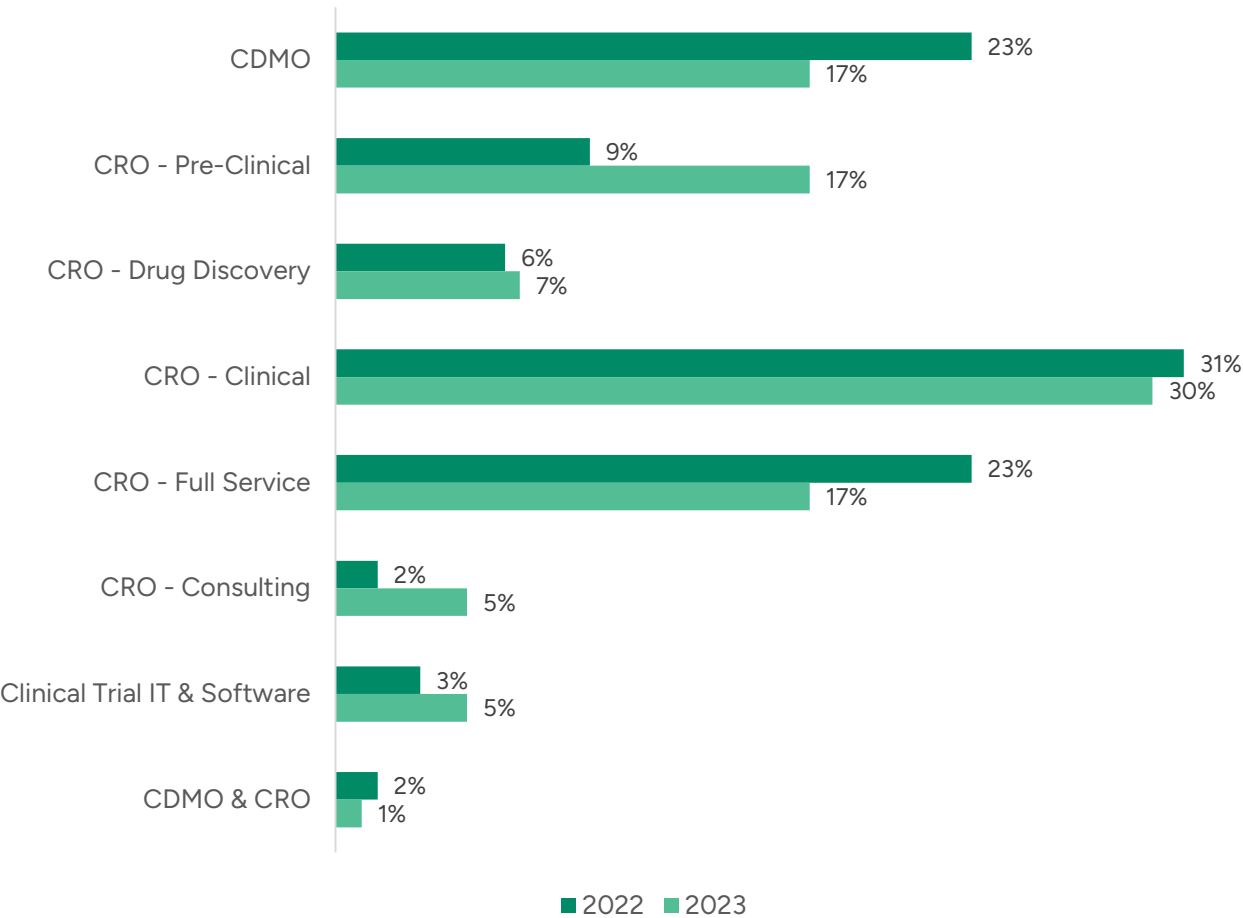
- Growth funding M&A deals declined to **56%**, while deals for service diversification like **RQM+'s** acquisitions rose to **24% in 2023**
- RQM+'s strategic buys, **Kottmann** and **Libra Medical**, extend their medtech services from **FIH studies** to commercial trials and beyond

Specialization and geographic reach made targets attractive

2023 M&A Landscape Across Specialization in the CRO/CDMO Market

- CDMO deal activity decreased to **17% in 2023**, reflecting a strategic pivot toward more integrated service models
- Preclinical service deals doubled in 2023 to **17%**, indicating a growing focus on **early-stage drug development**
- **Drug discovery** capabilities saw a slight uptick to **7%** in 2023, suggesting steady investment in innovation
- **Clinical trial CROs** maintained a dominant **30%** of M&A, highlighting continued demand for late-stage development expertise
- **Full-service CROs'** deals dropped to **17% in 2023**, potentially due to a shift towards specialized service providers
- Consulting services and Clinical Trial IT deals each grew to **5%**, revealing a trend towards digital transformation and strategic guidance
- In 2023, **Frontage Laboratories, OHMI, and GIC Singapore** acquired some of the largest CROs specializing in clinical services, including Nucro-Technics, Certania, and Easthorn Clinical Service

Figure 6: M&A (%) by Capabilities in CY 2023 vs CY 2022



We see an increased appetite for consulting and data analytics services specialists

Geographical Insights: M&A Activity in the CDMO & CRO Landscape

- North America's share of deals decreased from **50% to 39%** from 2022 to 2023, possibly due to **market maturity** and **saturation**
- Asia's M&A activity rose to **13% in 2023**, reflecting **growing R&D capabilities** and strategic investments in local **biotech expertise**
- Europe saw an increase in deals to **48% in 2023**, potentially driven by its **robust infrastructure** and **innovation-friendly environment**
- The decline in North American deals could be offset by a strategic move to tap into Asia's burgeoning markets and **cost-effective clinical trial environment**
- Europe's rise may be attributed to its **advanced analytical** and **project management capabilities**, which are key for handling complex drugs
- The increased activity in **Asia, particularly in India**, aligns with government initiatives to bolster the CRO potential and cost advantages over Western counterparts
- In 2023, the USA led North American M&A with **29 deals**, while Germany dominated Europe's activity with **10 acquisitions**; Asia saw China at the forefront with **9 transactions**, reflecting each region's strategic industry positioning

Figure 7: M&A's (%) by Geography - CY 2022 vs CY 2023 vs YTD 2024

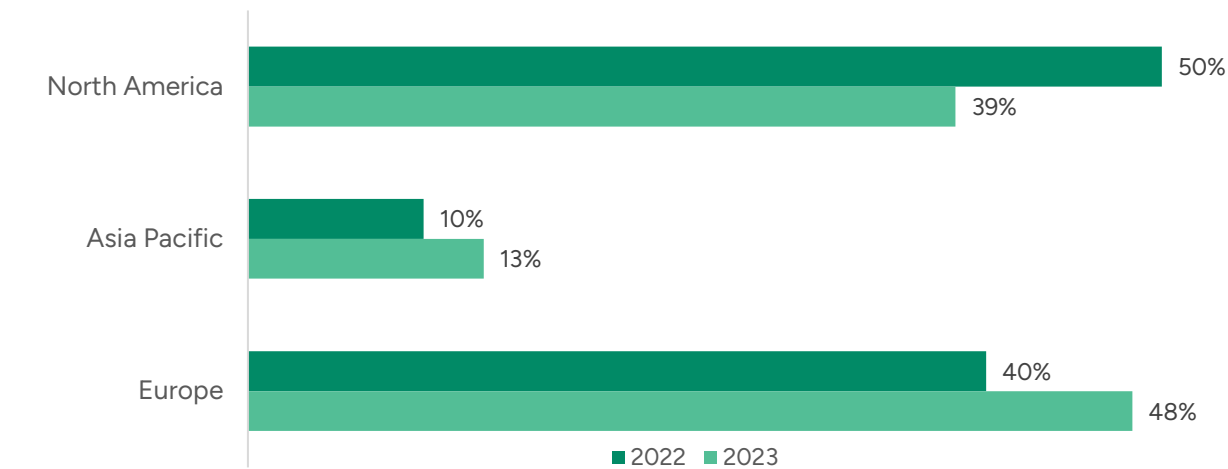
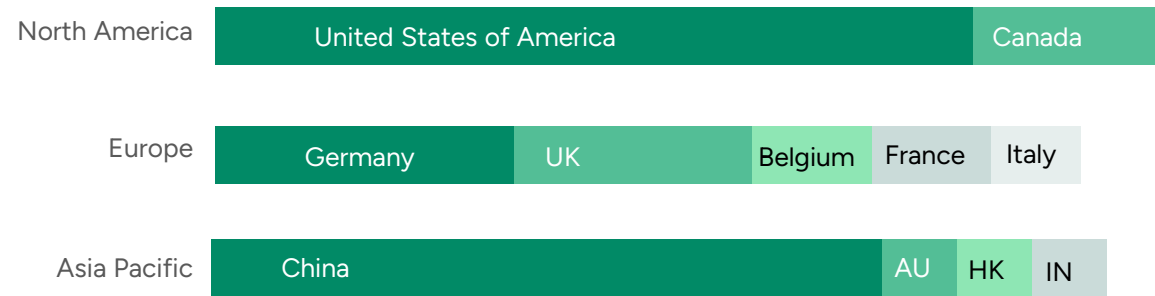


Figure 8: M&A Activity by Top Countries in the Region (2023)



Decoding Regional Dominance: Tracking the Pulse of M&A Hotspots in Life Sciences

Key Takeaways

Drivers of Growth for CDMO and CRO Sector

- **Innovation Leadership:** CDMOs are increasingly leading innovation, not just manufacturing, enhancing income sources through advanced services
- **Outsourcing Service Trend:** Pharma's shift towards outsourcing boosts growth for CROs and CDMOs, with smaller biotech's emergence amplifying this trend
- **Niche Capabilities:** Specialization in gene/cell therapies and biologics presents new growth avenues for CRO/CDMOs
- **Acquisitions for Expansion:** CDMOs are expanding capabilities via strategic acquisitions, scaling up to offer sophisticated, technical services

Outlook for 2024 and Beyond

- **Strategic Acquisitions:** Continued acquisitions expected to bolster CDMO service offerings and innovation capacity
- **Rise of Biologics:** Increased biologics production is anticipated to create further specialization demands
- **Pharma Downsizing Impact:** Major pharma's downsizing likely to further drive outsourcing, benefiting CDMOs/CROs
- **Focus on Specialization:** CROs/CDMOs to focus more on niche capabilities to cater to emerging therapeutic areas

M&A Activity



- In 2023, there were 95 M&A deals compared to 52 in 2022
- CDMOs Leading M&A: Broadening services beyond production to full-spectrum pharmaceutical services
- Biotech Fuels M&A: Smaller biotech firm needs spurring CDMO/CRO expansion through strategic deals
- Niche Focus: Gene/cell therapy specialization becoming a significant driver for CRO/CDMO M&A activity

TH Healthcare & Life Sciences' Transaction Track Record

Technology Holdings (TH) is exclusively focused on **M&A and capital raising advisory services to Healthcare Life Sciences, technology services, business process management, consulting and technology companies**. Over the last 23 years, TH has closed transaction with the most reputed healthcare and life sciences strategic buyers and private equity funds globally in 24 countries.



Boutique Investment Bank of the Year Award



Cross-Border Deal of the Year Award



Boutique Investment Bank of the Year Award



Global Technology M&A Advisory Firm of the Year Award



Investment Banking Firm of the Year Award

Life Sciences Transactions

MAY 2024



Has been acquired by



Life Sciences Commercialization & Marketing

MAR 2023



Has been acquired by



Life Sciences & MedTech Consulting

JUN 2022



Has been acquired by



Salesforce, Veeva & Microsoft Consulting

AUG 2022



Has been acquired by



Marketing Automation

DEC 2020



Has been acquired by



MedTech Design & Innovation Consulting

DEC 2020



Has been acquired by



Life Sciences Omnichannel Consulting & Insights IP

AUG 2019



Has been acquired by



Healthcare Innovation Consulting

DEC 2018



Has been acquired by



Strategic Healthcare Marketing Consultancy

JAN 2015



Has been acquired by



Life Sciences Analytics

NOV 2014



Has been acquired by



Healthcare Revenue Cycle Management

FEB 2011



Has been acquired by



Health Claims Audit & Recovery

JUN 2008



Has been acquired by



Healthcare Analytics & Consulting

MAY 2008



Has been acquired by



Payor Subrogation

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