

## Why Invest in Asian Private Equity? India as a Potential Breakout PE/VC Market



INVESTMENT INSIGHT | MORGAN STANLEY PRIVATE EQUITY SOLUTIONS (MS PES) | September 2024

Demographics, policy, and digitalization are converging at a time of significant change for India's economy. Amid ongoing uncertainty in China, investors have been seeking alternate ways to obtain exposure to Asia with India being a key destination. With Indian public markets having experienced a strong run-up since 2020, global allocators have been turning to Indian private equity (PE). In this paper, we aim to examine the promising performance potential of Indian private equity, address oft-cited concerns, and share with investors how to tap into this potential breakout opportunity.

### Is India the next China?

#### THE PARALLELS BETWEEN LAST-CYCLE CHINA AND CURRENT-CYCLE INDIA

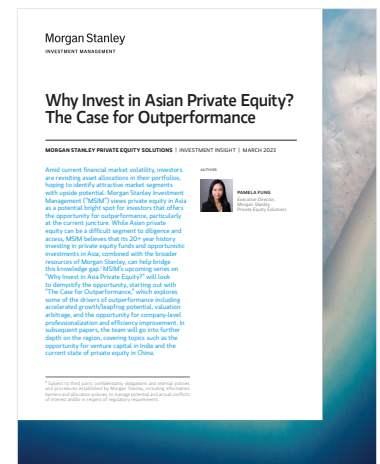
China, over the last decade and until recently, had been one of the brightest spots in global private equity. Recalling our prior paper, [“Why Invest in Asian Private Equity? The Case for Outperformance”](#), PE investing in China benefitted from accelerated, ‘leapfrog’ growth, efficiency improvements, and valuation arbitrage. Multiple factors generated excitement in the space: the large homogeneous market, three decades of c. 10% annual Gross Domestic Product (GDP) growth, rapid urbanization and infrastructure build-out, and the accelerated development of technology. The public markets were buoyant and receptive of this rapid growth, spurring major initial public offerings (IPOs) of China-based companies on both the U.S. and Chinese exchanges. Many multi-billion-dollar businesses were created with PE and venture capital (VC) participating commensurately in this growth.

We believe that India currently possesses many of the same characteristics that made China so attractive in the last market cycle. For starters, India's population has just surpassed China's, and annual GDP growth for the next

AUTHOR



**PAMELA FUNG**  
Managing Director  
Morgan Stanley Private  
Equity Solutions



decade is expected to be 6.5%<sup>1</sup> with India replacing China as the world's fastest-growing large economy. India is investing heavily in physical and digital infrastructure, which is expected to contribute significantly to continued GDP growth. Unified GST,<sup>2</sup> introduced in 2017, has India now behaving as one common market with the country moving up ten places in the last five years in terms of ease of doing business.<sup>3</sup> We believe India possesses several structural tailwinds that may provide ample runway for growth—and that India may in fact be even better positioned than China was at a similar point in its growth trajectory.

## INDIA MAY BE EVEN BETTER POSITIONED THAN CHINA WAS

### Factor #1: More accelerated growth

While Prime Minister Narendra Modi is credited with India's comeback story, many of the building blocks for India's next phase of growth were introduced before he came into power in 2014. The idea for Aadhaar, which requires each Indian citizen to have a digital ID and has integrated millions of previously untracked citizens into the formal system, was born in 2010. The Unified Payments Interface (UPI) was conceived around the same time, providing India with the digital backbone for instantaneous online payments; India now leads the world in digital payments with over 100 billion transactions in 2023. In the ensuing years, the splash made by Jio, India's largest telecom network, enabled India to offer the cheapest and fastest mobile networks in the world with COVID-19 tailwinds rapidly accelerating digital adoption. There are numerous additional initiatives underway, such as India Health ID (initiated 2020) digitizing medical records and Account Aggregator (initiated 2021) digitizing bank account information.

While the development of technology in the U.S. and China has been driven more so by the private sector, in India, it is the government that has laid the groundwork nationwide for multiple facets of society to be digitized, which we believe could potentially lead to even more accelerated growth. As shown in *Display 1*, India's current mobile penetration is already on par with China's and, in the next decade, India may overtake China's mobile banking penetration, distinguishing the country as a clear digital-first economy.

**DISPLAY 1**  
**China last decade vs. India this decade**

	CHINA LAST DECADE		INDIA THIS DECADE	
Population (mn) <sup>a</sup>	1,349 (2010)	→ 1,427 (2022)	1,422 (2022)	→ 1,538 (2032E)
GDP per capita (USD) <sup>a</sup>	\$4,517 (2010)	→ \$12,582 (2022)	\$2,377 (2022)	→ \$5,857 (2032E)
GDP growth (%) <sup>a</sup>	6.6% (2010-22)		6.5% (2022-32E)	
Mobile Penetration (%) <sup>b</sup>	22.0% (2010)	→ 89.2% (2022)	85.1% (2022)	→ 95.8% (2032E)
E-commerce Penetration (%) <sup>c</sup>	0.9% (2010)	→ 31.4% (2022)	6.7% (2022)	→ 9.3% (2027E)
Mobile Banking Penetration (%) <sup>d</sup>	10.3% (2010)	→ 48.3% (2022)	35.1% (2022)	→ 70.8% (2032E)

<sup>a</sup> Source: Oxford Economics, data as of February 2024; Real GDP CAGR.

<sup>b</sup> Source: EuroMonitor, data as of February 2024.

<sup>c</sup> % ecommerce sales of total retail sales; Source: Euromonitor, National Data Sources, Morgan Stanley Research, data as of 23 April 2023; 2027E is the longest-dated forecast available for e-commerce penetration.

<sup>d</sup> Source: Statista Market Insights, data released May 2023.

Data provided is for informational use only. Forecasts/estimates are based on current market conditions, subject to change, and may not necessarily come to pass. **Past performance is no guarantee of future results.**

### Factor #2: India to global opportunity

While China—given its large, homogeneous market—had historically been mostly focused on domestic solutions, Indian companies in certain sectors have generally been more outward looking. Services make up a relatively high 40-50% of India's exports, and India has a long history of business process outsourcing (BPO), serving a global customer base by leveraging its large and cost-effective talent pool. Today, some of this has transitioned into software-as-a-service (SaaS) with India becoming a potential development hub in this space. With three million developers, 50% more than in the U.S.,<sup>4</sup> and at 50-70% lower salaries compared to U.S.,<sup>5</sup> Indian tech companies can staff large teams, iterate on R&D more quickly, and simultaneously develop multiple products and holistic

<sup>1</sup> Oxford Economics, data as of February 2024.

<sup>2</sup> Unified Goods and Services Tax ("Unified GST") was introduced in India on July 1, 2017, to replace the prior system which involved a complicated system of multiple indirect taxes imposed by the Central Government and each individual State. By introducing a single GST that is applied at uniform rates across the country, the Government of India has greatly enhanced the ease of doing business in India.

<sup>3</sup> Economist Intelligence Unit's Business Environment Ranking.

<sup>4</sup> SaaSBOOMi, "Shaping India's SaaS Landscape Over the Next Decade", July 2021.

<sup>5</sup> Bain & Company, "India SaaS Report 2022"

solutions while maintaining speed-to-market, making for a more compelling customer proposition. With the COVID-19 pandemic opening companies to the idea of enterprise sales originating from anywhere, India's low cost, tech-savvy talent is expected to help grow its share of global SaaS from 5% to 8% over the next five years.<sup>6</sup>

Beyond the tech and software sectors, India has also served as a hub for emerging market solutions for decades. For example, exports in the consumer and healthcare sectors have historically offered strong price-to-quality propositions. With global supply chains diversifying beyond China, India is already proving to be a beneficiary.

Going forward, we believe India will play an increasingly important role in many global markets, from manufacturing to software and tech.

### Factor #3: Focus on capital efficiency

For all the buzz around India right now, investment capital has come and gone in waves (*Display 2*), so for many years, companies could not rely on outside investment capital and were forced to bootstrap operations and grow in a capital-efficient manner. Additionally, until listing requirements changed in 2020, companies had to be profitable in order to go public. Even now, when examining the tech IPOs of the last three years, we observe that the market has rewarded companies with better margin profiles vs. those with high cash

burn rates (*Display 3*). Hence, from both an entrepreneurs' and investors' perspective, in the Indian market, there is an implicit focus on capital efficiency. Companies that can scale profitably with lower cash burn should be generally well-positioned to generate more sustainable returns.

### Why do Indian GPs still struggle to fundraise?

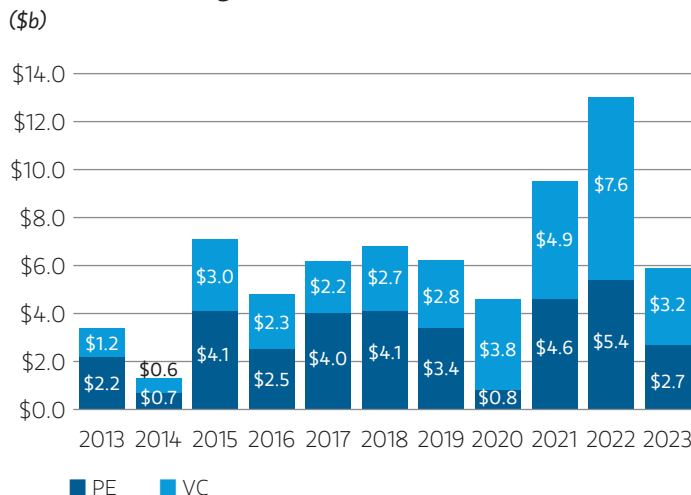
Even with all this positive momentum, we observe that many Indian general partners (GPs) with compelling track records struggle to fundraise from international limited partners (LPs). We believe it is important to understand the history behind this and how to think about the perceived risks of investing in Indian private markets going forward.

#### THE "BAGGAGE" – CURRENCY DEPRECIATION, HIGH VALUATIONS AND LIMITED EXIT OPPORTUNITIES

Those who have been investing in India for the last few decades bear a lot of scar tissue. Many investors were burned by disappointing returns in Indian PE/VC. It is not uncommon to see Indian GPs report their returns in Indian Rupee (INR), which, when translated into U.S. dollars, appear underwhelming. Other common gripes included the perceived high entry valuations of underlying target companies and the lack of distributions.

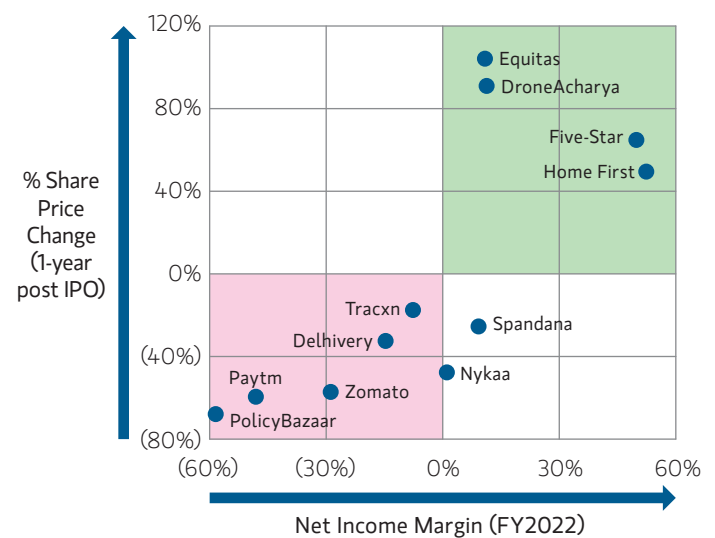
We believe the magnitude of these issues is lower today than in the recent past, but that these considerations must still be proactively managed by GPs.

**DISPLAY 2**  
**PE/VC Fundraising in India**



Source: AVCJ, data as of December 31, 2023.  
Data provided is for informational use only

**DISPLAY 3**  
**Profitable Indian companies perform better post IPO**



Source: Capital IQ, data as of 31 December 2023.  
Data provided is for informational use only. Forecasts/estimates are based on current market conditions, subject to change, and may not necessarily come to pass. Past performance is no guarantee of future results.

<sup>6</sup> 2022-27 forecast; Bain & Company, "India SaaS Report 2022".

## Issue #1: Depreciation

Steep depreciation and volatility in the Indian Rupee (INR) have been concerns of investors for decades. At its worst, between 2007 and 2013, the INR depreciated over 50% against the dollar.<sup>7</sup> In the last decade, the INR has continued to depreciate, but at a more modest and predictable rate. During this time, given a much more proactive central bank, India's foreign exchange reserves position has significantly strengthened and inflation has moderated to 2.9%,<sup>8</sup> resulting in a more controlled INR depreciation at an average of 4.0% p.a.. Morgan Stanley Research currently expects INR depreciation going forward to be more moderate, at c.2% per annum.<sup>9</sup>

This moderation notwithstanding, due to the prior steep depreciation era, GPs on the ground have generally become much more aware of the effects of depreciation, especially as most Indian PE and VC funds are denominated in U.S. dollars, with GPs' carried interest also tied to dollar-denominated returns. Indian GPs today manage foreign exchange (FX) risk through a combination of diversification

within the portfolio,<sup>10</sup> balancing domestically oriented versus export-focused U.S. dollar-revenue-driven companies and/or underwriting to higher returns. The most sophisticated investors include currency as an input in their models to see how the impact of currency flows through the business.

## Issue #2: Valuations

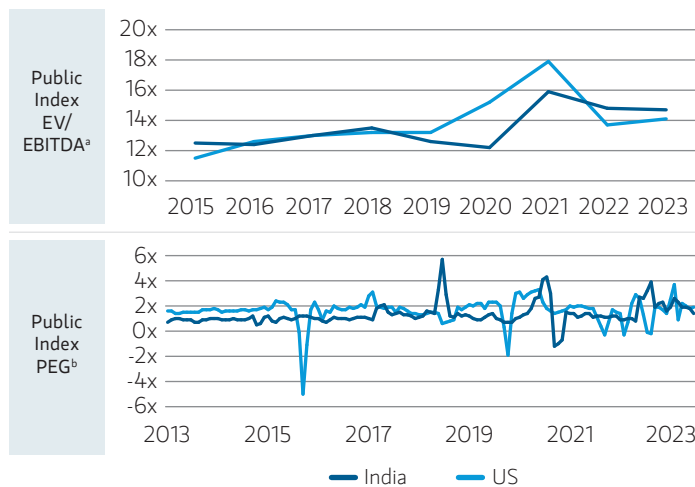
India has been notorious for high valuations, both in the public and private markets. But are valuations really that high?

- Looking at the median in Indian public and private markets, valuations may not, in reality, be considered high. Across several dimensions (i.e. EV/EBITDA, PEG), they appear to be in line with the U.S. We have also observed on the ground that certain market segments still hold a degree of opacity and inefficiency, with some companies—generally small/mid-cap companies that are not part of large auction processes—demonstrating compelling growth and margin profiles and trading at high-single-digit EV/EBITDAs.<sup>11</sup>

### DISPLAY 4

#### Indian Public and Private Valuations

##### Public Valuations



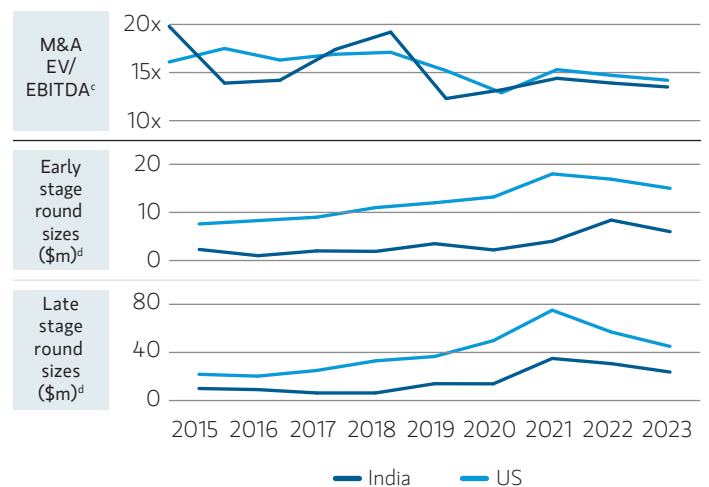
Source: Bloomberg, data as of 31 December 2023.

<sup>a</sup> Average LTM EV/EBITDA of MSCI India vs MSCI US.

<sup>b</sup> Average 1-year forward PEG of MSCI India vs MSCI US by month.

Data provided is for informational use only. Forecasts/estimates are based on current market conditions, subject to change, and may not necessarily come to pass. **Past performance is no guarantee of future results.**

##### Private Valuations



Source:

<sup>c</sup> Thomson Reuters, data as of 31 December 2023. Median M&A EV/EBITDA Acquisition Multiple.

<sup>d</sup> AVCJ (India), Preqin (US), data as of 31 December 2023. Median round size by year; Early stage: Startup/ Early stage, Series A&B; Late stage: Series C onwards, and Growth/ Expansion.

Data provided is for informational use only.

<sup>7</sup> Oxford Economics, data as of 31 August 2023.

<sup>8</sup> 2013-2023 average annual CPI inflation differential; Oxford Economics, data as of 31 August 2023.

<sup>9</sup> Based on MS PES discussion with Morgan Stanley India Macroeconomics research analyst on 9 October 2023.

<sup>10</sup> Diversification does not eliminate the risk of loss.

<sup>11</sup> Capital IQ, Bloomberg, data as of 31 December 2023.

- For the last decade, early-stage VC valuations have generally hovered at c.20-50%<sup>12</sup> of the levels of the U.S. This appears reasonable particularly given the strong growth trajectory and capital efficient nature of the businesses. For late-stage VC valuations, where global investors are more likely to participate, the differential is somewhat smaller, but the spread persists. This is in comparison to the China VC market, which at its peak traded close to U.S. VC valuations.
- We do acknowledge that the highest quality companies in India trade at valuations far above global comps. Our Morgan Stanley Global Opportunity Team notes that India is home to a disproportionately high number of high-quality companies as defined as companies with >15% 3-year revenue CAGR (compound annual growth rate) and >15% ROIC (return on invested capital).<sup>13</sup> The highest quality Indian banks and non-bank financial companies (NBFCs) can trade at price-to-book multiples 3-to-7 times the market median.<sup>14</sup> Similarly, the top consumer companies can trade at over 50x P/E, significantly higher than the industry median.<sup>15</sup> These companies attract the most attention and may be what gives India the reputation as a high-valuation market. However, this can also be a boon for PE investors. When entry valuations are controlled, PE investments in India have the potential to generate healthy multiple arbitrage at exit.

### Issue #3: Exits

While India has been evolving in the last decade as a market for control-oriented buyout deals, it is still predominantly a minority investing market with the percentage of minority deals hovering around 60% (compared to around 80% a decade ago).<sup>16</sup> Hence, public market activity makes up about 70% of PE/VC exit value.<sup>17</sup> However, we believe that exit markets will continue to evolve on the basis of the following:

### ■ IPO reforms

- Until recently, Indian companies had to meet strict revenue and profitability thresholds to list on domestic stock exchanges, and companies could not IPO on overseas exchanges until they had gone public domestically. This changed in March 2020 when the Securities and Exchange Board of India (SEBI) made it possible for growth-oriented technology companies that had yet to turn a profit to list on domestic exchanges. SEBI also opened the doors to approve direct overseas listings.
- We have observed that Indian public markets have deepened significantly over time with the development of domestic institutional and retail investors and increased foreign participation. Last year, India's stock market ranked second globally by number of IPOs and sixth by average daily turnover.<sup>18</sup>

### ■ Foreign investor reforms and M&A activity

- Most mergers and acquisitions (M&A) of Indian companies are pure domestic deals. Foreign inbound deals make up only a quarter of all M&A in India.<sup>19</sup> Deal sizes tend to be small—below \$100 million— but several changes in recent years are expected to give rise to gradually increasing M&A volumes including relaxed foreign direct investment (FDI) restrictions paving the way for full/higher foreign ownership in a broader range of sectors as well as the rescinding of a 2012 retrospective tax on foreign investments, which scared away would-be foreign buyers.<sup>20</sup>

Nevertheless, even as exit markets in India continue to expand, we would note that exits and distributions need to be actively managed given the ebbs and flows in capital markets and M&A activity. Based on our experience, the best managers plan for multiple exit paths at entry, and the DPI of top-quartile managers in India stacks up well against developed markets.

<sup>12</sup> Preqin, AVCJ, MS PES Analysis, data as of 31 December 2023.

<sup>13</sup> Morgan Stanley Global Opportunity Team, "The India Opportunity", January 2024.

<sup>14</sup> Morgan Stanley Research, "Investor Presentation – India Banks", November 11, 2022.

<sup>15</sup> Morgan Stanley Research, "India Consumer – Valuations et al", September 1, 2023.

<sup>16</sup> Source: Preqin; MS PES Analysis.

<sup>17</sup> Referring to 2018-23. Source AVCJ; MSIM Analysis.

<sup>18</sup> Dealogic, World Federation of Exchanges, data as of December 31, 2023.

<sup>19</sup> PwC, "Deals in India Annual review 2022", based on number of deals.

<sup>20</sup> As a result of the Finance Amendment Act in 2012, retrospective taxation was introduced in India to impose taxes on deals executed after 1962 which involve transfers of shares in foreign corporations with existing assets in Indian jurisdictions. However, this was rescinded in 2021 with the Taxation Laws (Amendment) Bill 2021, which nullified and voided all tax demand notices based on the 2012 amendment.



## OPPORTUNITY SET MISMATCH

Some large allocators have opted to bypass Indian PE funds completely, choosing instead to set up direct teams in-country. Asset owners like Temasek, GIC, CPPIB, OTPP, and KIC are examples of large allocators who have set up dedicated Indian offices and have collectively invested \$9 billion in Indian private equity deals in 2023.<sup>21</sup> As shown in *Display 5*, Indian funds may simply be too small for global allocators with the largest dedicated Indian GPs, Kedaara and ChrysCapital, managing funds at \$1.5-2.0 billion, and most Indian GPs raising less than \$300 million per fund. Several large allocators seeking exposure to India have chosen global or regional funds that are active in India, including Advent, Baring-EQT, KKR, and Warburg Pincus. There may simply not be enough large funds to absorb the potential demand for India PE/VC. It is a situation that is unlikely to correct overnight, as local GPs will need to prove themselves and increase fund sizes gradually to remain commensurate with prior track records. In the meantime, this opportunity set mismatch may prove to be a positive, keeping the overall capital supply at reasonable levels.

## The Outlook for India PE/VC

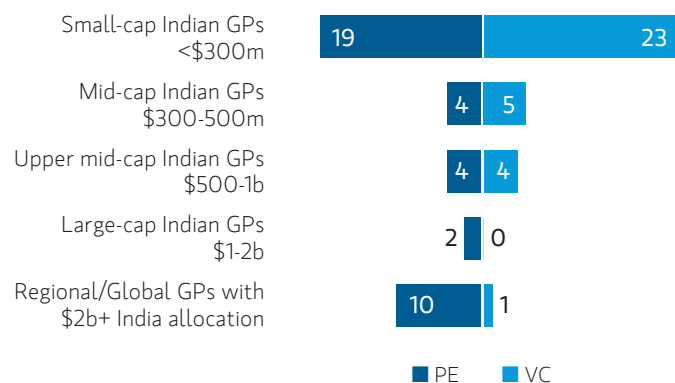
In our view, India PE/VC has the potential to outperform. The turbo-charged yet capital-efficient growth trajectory with multiple tailwinds (domestic growth, India to Emerging Markets, India to Developed Markets) combined with reasonable valuations presents a compelling investment opportunity. Nonetheless, execution is not easy. While exit markets have begun to open, the situation is still evolving, and exits need to be planned early and actively managed.

We remain constructive but selective on India. It is necessary to partner with experienced investors who are well connected, have robust diligence processes, and an active hands-on approach. We have a preference for managers who have seen end-to-end deal cycles and have found ways to deal with some of the baggage from 15-20 years ago. We also look for GPs who are ready to hit the ground running, with tight underwriting and narrow time horizons, strong execution capabilities and several exit avenues identified early, given the need to work against depreciation. But for those who can navigate the nuances in this market, we believe breakout potential exists.

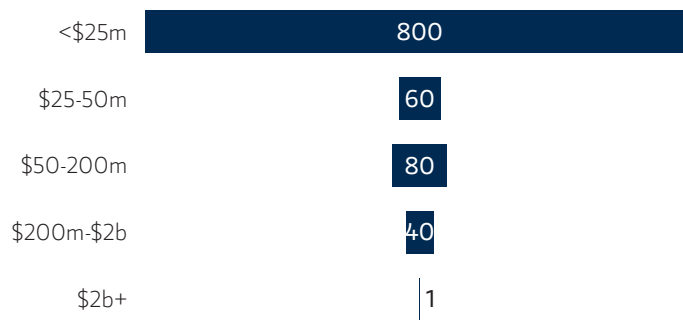
### DISPLAY 5

#### Indian funds and deals skew small-cap

Indian PE/VC GPs by latest fund size



Annual PE & VC deal flow by deal size



Source: MS PES analysis, Preqin, data as of 31 December 2023; No. of GPs: based on GPs' latest fund size based (for regional/global GPs, based on the amount allocated to India for their latest fund). No. of deals annually: calculated as average number of deals per year between 2018-23.

Data provided is for informational use only.

<sup>21</sup> Pitchbook, data as of 31 December 2023.

## Risk Considerations

The statements above reflect the views and opinions of the Morgan Stanley Private Equity Solutions as of the date hereof and not as of any future date. All forecasts are speculative, subject to change at any time and may not come to pass due to economic and market conditions. There is no assurance that a portfolio will achieve its investment objective. Portfolios are subject to market risk, which is the possibility that the market values of securities owned by the portfolio will decline and that the value of portfolio shares may therefore be less than what you paid for them. This is a general communication, which is not impartial and has been prepared solely for informational and educational purposes and does not constitute an offer or a recommendation to buy or sell any particular security or to adopt any specific investment strategy. The information herein has not been based on a consideration of any individual investor circumstances and is not investment advice, nor should it be construed in any way as tax, accounting, legal or regulatory advice. To that end, investors should seek independent legal and financial advice, including advice as to tax consequences, before making any investment decision. Market values can change daily due to economic and other events (e.g. natural disasters, health crises, terrorism, conflicts and social unrest) that affect markets, countries, companies or governments. It is difficult to predict the timing, duration, and potential adverse effects (e.g. portfolio liquidity) of events. Accordingly, you can lose money investing in this portfolio. Please be aware that this portfolio may be subject to certain additional risks. In general, equities securities' values also fluctuate in response to activities specific to a company. Investments in foreign markets entail special risks such as currency, political, economic, market and liquidity risks. The risks of investing in emerging market countries are greater than the risks generally associated with investments in foreign developed countries.

## DISCLOSURES

The statements above reflect the opinions and views of the Morgan Stanley Private Markets Solutions as of the date hereof and not as of any future date and will not be updated or supplemented. All forecasts are speculative, subject to change at any time and may not come to pass due to economic and market conditions.

Information regarding expected market returns and market outlooks is based on the research, analysis, and opinions of the investment team of the Private Markets Solutions Team. These conclusions are speculative in nature, may not come to pass, and are not intended to predict the future of any specific Morgan Stanley investment.

Certain information contained herein constitutes forward-looking statements, which can be identified by the use of forward-looking terminology such as "may," "will," "should," "expect," "anticipate," "project," "estimate," "intend," "continue" or "believe" or the negatives thereof or other variations thereon or other comparable terminology. Due to various risks and uncertainties, actual events or results may differ materially from those reflected or contemplated in such forward-looking statements. No representation or warranty is made as to future performance or such forward-looking statements.

Persons considering an alternative investment should refer to the specific investment's offering documentation, which will fully describe the specific risks and considerations associated with such investment.

Alternative investments typically have higher fees and expenses than other investment vehicles, and such fees and expenses will lower returns achieved by investors. Alternative investment funds are often unregulated, are not subject to the same regulatory requirements as mutual funds, and are not required to provide periodic pricing or valuation information to investors. The investment strategies described in the preceding pages may not be suitable for the recipient's specific circumstances; accordingly, you should consult your own tax, legal or other advisors, both at the outset of any transaction and on an ongoing basis, to determine such suitability.

This is prepared for sophisticated investors who are capable of understanding the risks associated with the investments described herein and may not be appropriate for the recipient. No investment should be made without proper consideration of the risks and advice from your tax, accounting, legal or other advisors as you deem appropriate.

Morgan Stanley does not render tax advice on tax accounting matters to clients. This material was not intended or written to be used, and it cannot be used with any taxpayer, for the purpose of avoiding penalties which may be imposed on the taxpayer under U.S. federal tax laws. Federal and state tax laws are complex and constantly changing. Clients should always consult with a legal or tax advisor for information concerning their individual situation.

This material is only intended for and will only be distributed to persons resident in jurisdictions where such distribution or availability would not be contrary to local laws or regulations.

MSIM, the asset management division of Morgan Stanley (NYSE: MS), and its affiliates have arrangements in place to market each other's products and services. Each MSIM affiliate is regulated as appropriate in the jurisdiction it operates. MSIM's affiliates are: Eaton Vance Management (International) Limited, Eaton Vance Advisers International Ltd, Calvert Research and Management, Eaton Vance Management, Parametric Portfolio Associates LLC, and Atlanta Capital Management LLC.

**This material has been issued by any one or more of the following entities:**

**EMEA:** This material is for Professional Clients/Accredited Investors only.

**In the EU,** MSIM and Eaton Vance materials are issued by MSIM Fund Management (Ireland) Limited ("FMIL"). FMIL is regulated by the Central Bank of Ireland and is incorporated in Ireland as a private company limited by shares with company registration number 616661 and has its registered address at The Observatory, 7-11 Sir John Rogerson's Quay, Dublin 2, D02 VC42, Ireland.

**Outside the EU,** MSIM materials are issued by Morgan Stanley Investment Management Limited (MSIM Ltd) is authorised and regulated by the Financial Conduct Authority. Registered in England. Registered No. 1981121. Registered Office: 25 Cabot Square, Canary Wharf, London E14 4QA.

**In Switzerland,** MSIM materials are issued by Morgan Stanley & Co. International plc, London (Zurich Branch) Authorised and regulated by the Eidgenössische Finanzmarktaufsicht ("FINMA"). Registered Office: Beethovenstrasse 33, 8002 Zurich, Switzerland.

**Outside the US and EU,** Eaton Vance materials are issued by Eaton Vance Management (International) Limited ("EVMI") 125 Old Broad Street, London, EC2N 1AR, UK, which is authorised and regulated in the United Kingdom by the Financial Conduct Authority.

**Italy:** MSIM FMIL (Milan Branch), (Sede Secondaria di Milano) Palazzo Serbelloni Corso Venezia, 16 20121 Milano, Italy. **The Netherlands:** MSIM FMIL (Amsterdam Branch), Rembrandt Tower, 11th Floor Amstelplein 1 1096HA, Netherlands. **France:** MSIM FMIL (Paris Branch), 61 rue de Monceau 75008 Paris, France. **Spain:** MSIM FMIL (Madrid Branch), Calle Serrano 55, 28006, Madrid, Spain.

**U.S.**

**NOT FDIC INSURED | OFFER NO BANK GUARANTEE | MAY LOSE VALUE | NOT INSURED BY ANY FEDERAL GOVERNMENT AGENCY | NOT A DEPOSIT**

**Latin America (Brazil, Chile Colombia, Mexico, Peru, and Uruguay)**

This material is for use with an institutional investor or a qualified investor only. All information contained herein is confidential and is for the exclusive use and review of the intended addressee, and may not be passed on to any third party. This material is provided for informational purposes only and does not constitute a public offering, solicitation or recommendation to buy or sell for any product, service, security and/or strategy. A decision to invest should only be made after reading the strategy documentation and conducting in-depth and independent due diligence.

**Hong Kong:** This material is disseminated by Morgan Stanley Asia Limited for use in Hong Kong and shall only be made available to "professional investors" as defined under the Securities and Futures Ordinance of Hong Kong (Cap 571). The contents of this material have not been reviewed nor approved by any regulatory authority including the Securities and Futures Commission in Hong Kong. Accordingly, save where an exemption is available under the relevant law, this material shall not be issued, circulated, distributed, directed at, or made available to, the public in Hong Kong.

**Singapore:** This material is disseminated by Morgan Stanley Investment Management Company and should not be considered to be the subject of an invitation for subscription or purchase, whether directly or indirectly, to the public or any member of the public in Singapore other than (i) to an institutional investor under section 304 of the Securities and Futures Act, Chapter 289 of Singapore ("SFA"); (ii) to a "relevant person" (which includes an accredited investor) pursuant to section 305 of the SFA, and such distribution

is in accordance with the conditions specified in section 305 of the SFA; or (iii) otherwise pursuant to, and in accordance with the conditions of, any other applicable provision of the SFA. This publication has not been reviewed by the Monetary Authority of Singapore.

**Australia:** This material is disseminated in Australia by Morgan Stanley Investment Management (Australia) Pty Limited ACN: 122040037, AFSL No. 314182, which accept responsibility for its contents. This publication, and any access to it, is intended only for "wholesale clients" within the meaning of the Australian Corporations Act. Calvert Research and Management, ARBN 635 157 434 is regulated by the U.S. Securities and Exchange Commission under U.S. laws which differ from Australian laws. Calvert Research and Management is exempt from the requirement to hold an Australian financial services licence in accordance with class order 03/1100 in respect of the provision of financial services to wholesale clients in Australia

**Japan:** For professional investors, this document is circulated or distributed for informational purposes only. For those who are not professional investors, this document is provided in relation to Morgan Stanley Investment Management (Japan) Co., Ltd. ("MSIMJ")'s business with respect to discretionary investment management agreements ("IMA") and investment advisory agreements ("IAA"). This is not for the purpose of a recommendation or solicitation of transactions or offers any particular financial instruments. Under an IMA, with respect to management of assets of a client, the client prescribes basic management

policies in advance and commissions MSIMJ to make all investment decisions based on an analysis of the value, etc. of the securities, and MSIMJ accepts such commission. The client shall delegate to MSIMJ the authorities necessary for making investment. MSIMJ exercises the delegated authorities based on investment decisions of MSIMJ, and the client shall not make individual instructions. All investment profits and losses belong to the clients; principal is not guaranteed. Please consider the investment objectives and nature of risks before investing. As an investment advisory fee for an IAA or an IMA, the amount of assets subject to the contract multiplied by a certain rate (the upper limit is 2.16% per annum (including tax)) shall be incurred in proportion to the contract period. For some strategies, a contingency fee may be incurred in addition to the fee mentioned above. Indirect charges also may be incurred, such as brokerage commissions for incorporated securities. Since these charges and expenses are different depending on a contract and other factors, MSIMJ cannot present the rates, upper limits, etc. in advance. All clients should read the Documents Provided Prior to the Conclusion of a Contract carefully before executing an agreement. This document is disseminated in Japan by MSIMJ, Registered No. 410 (Director of Kanto Local Finance Bureau (Financial Instruments Firms)), Membership: the Japan Securities Dealers Association, The Investment Trusts Association, Japan, the Japan Investment Advisers Association and the Type II Financial Instruments Firms Association.