#### APOLLO

# Outlook for private markets

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**Apollo Global Management** 

December 2023

Unless otherwise noted, information as of December 2023.

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Source: Apollo Chief Economist

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# Overview

#### Comparing public and private markets

- Global private capital AUM: \$13trn (Source: Pitchbook)
- Global fixed income outstanding: \$103trn (Source: SIFMA)
- Global equity market cap: \$101trn (Source: SIFMA)
- Global size of banking sector balance sheets: \$98trn (Source: BIS)

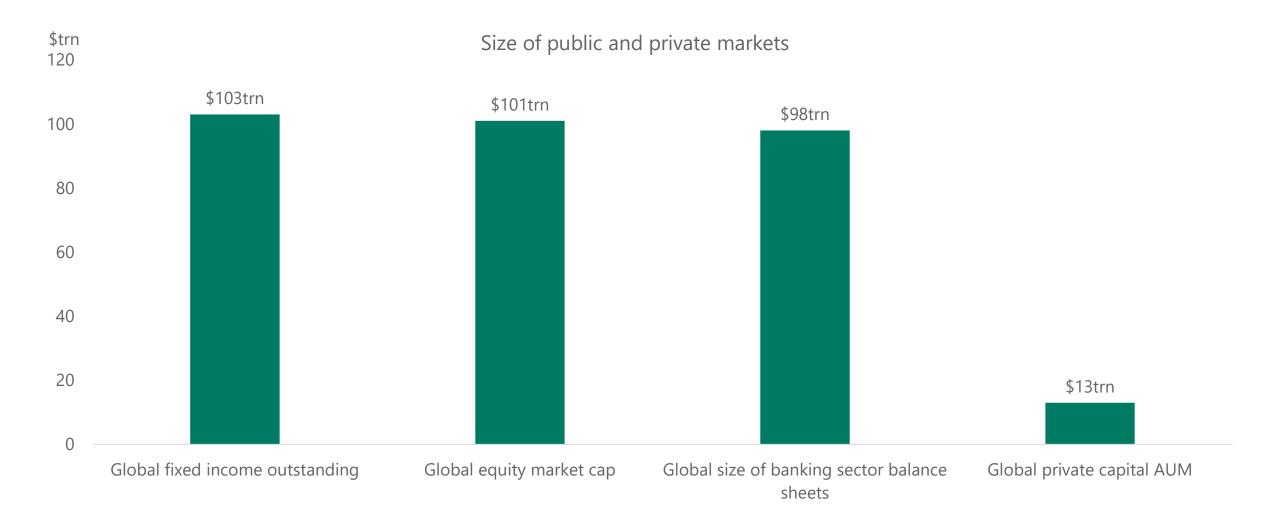
#### Private capital makes up less than 5% of global financing markets

- Increase in the size of global private markets AUM over the past decade: \$8trn
- Increase in the size of global fixed income markets over the past decade: \$42trn
- Increase in the size of global equity market cap over the past decade: \$35trn
- Increase in the size of global banking sector balance sheets over the past decade: \$34trn

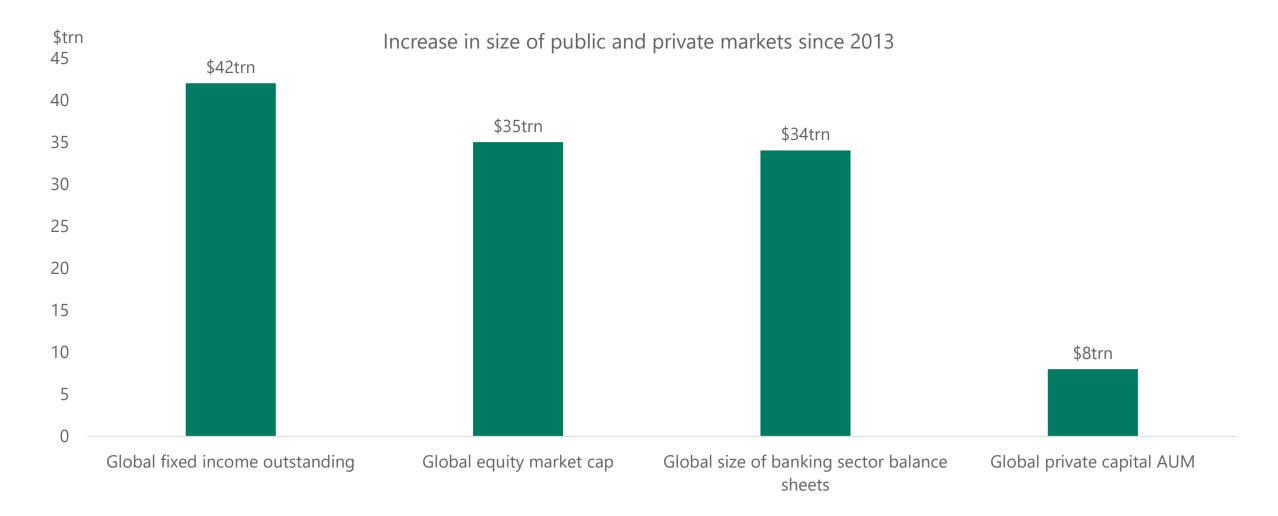
#### Private capital has over the past decade grown much slower than global financing markets

Source: SIFMA, BIS, Pitchbook, Apollo Chief Economist

### Comparing public and private markets



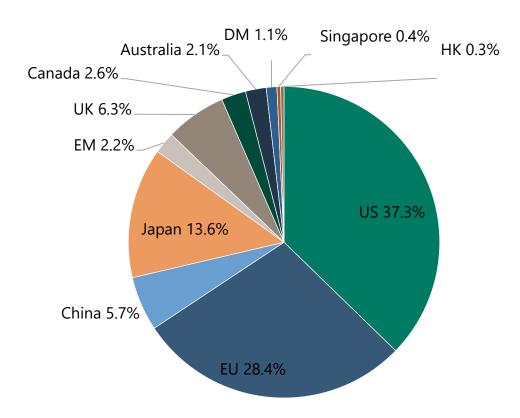
## Comparing growth in public and private markets over the past decade



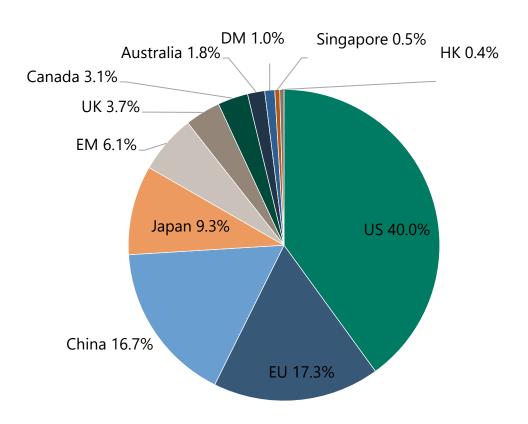
Source: SIFMA, BIS, Pitchbook, Apollo Chief Economist

#### Global fixed income markets have grown \$42trn over the past decade

# Global fixed income outstanding 2013: \$87.8trn



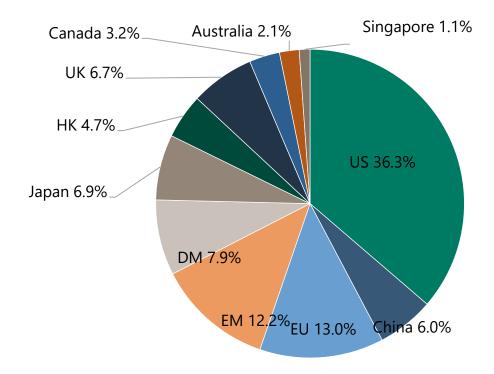
# Global fixed income outstanding 2022: \$129.8trn



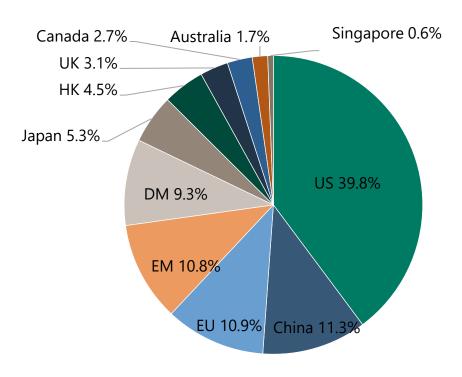
Source: SIFMA, Apollo Chief Economist

#### Global equity markets have grown \$35trn over the past decade

# Global equity market cap 2013: \$66.2trn

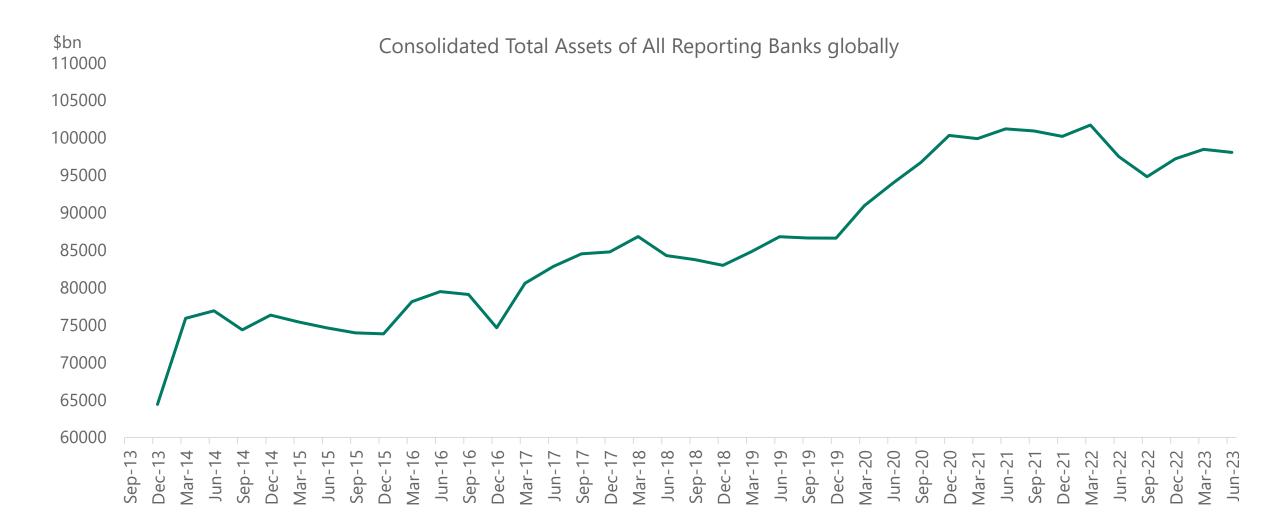


## Global equity market cap 2022: \$101.2T



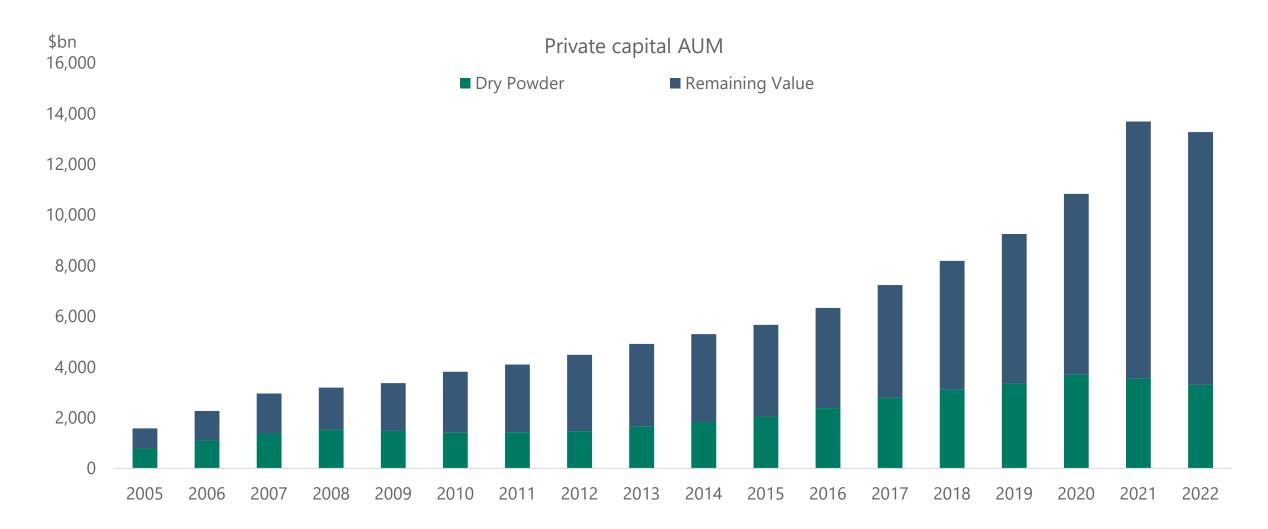
Source: SIFMA, Apollo Chief Economist

## Total assets in the global banking sector have grown \$34trn over the past decade

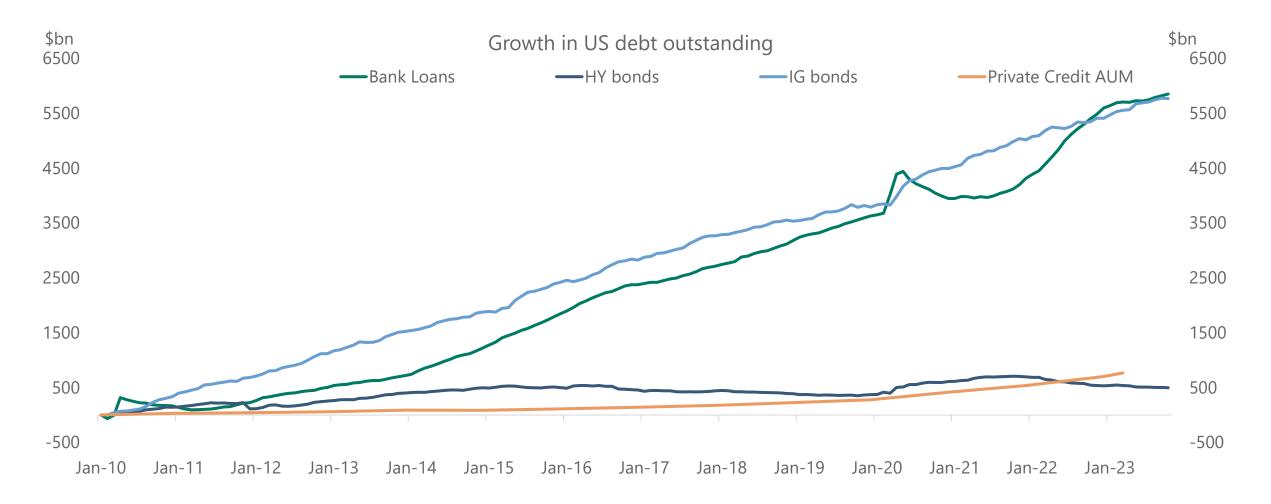


Source: BIS, Haver Analytics, Apollo Chief Economist

#### Global private capital markets have grown \$8trn over the past decade

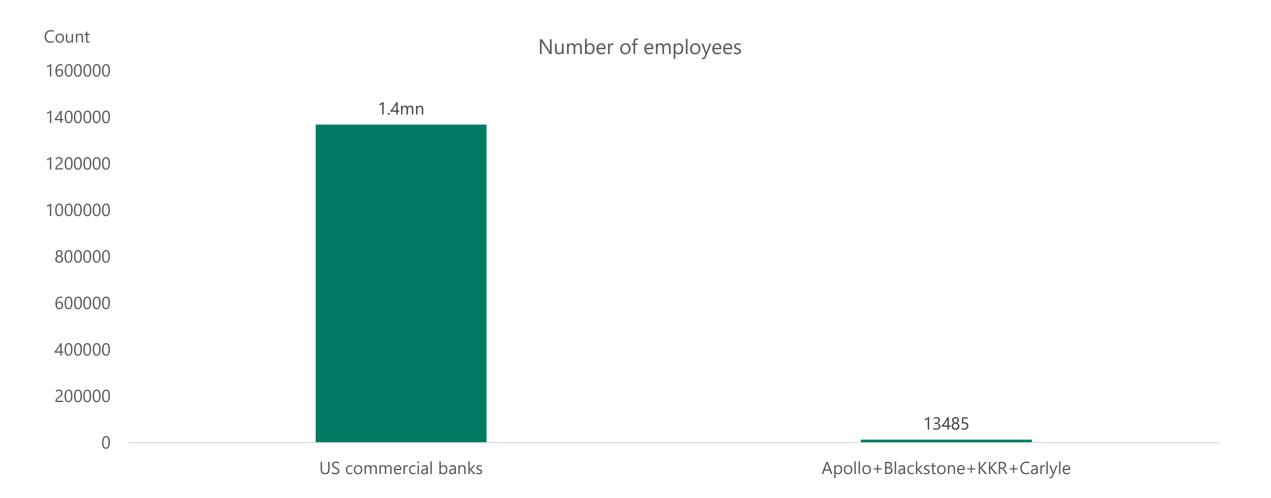


Since 2010, lending by banks has increased by \$5.5trn, IG markets have grown \$5.5trn, HY markets have grown \$500bn, and private credit AUM has increased by \$800bn.



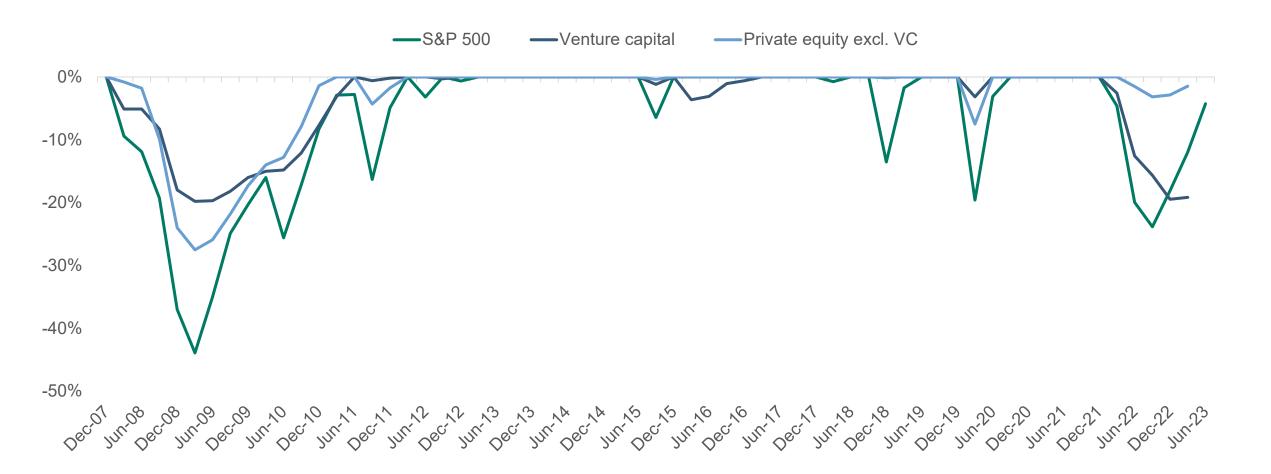
Source: FRB, ICE BofA, Bloomberg, Apollo Chief Economist

### Total employment in US commercial banks: 1.4mn



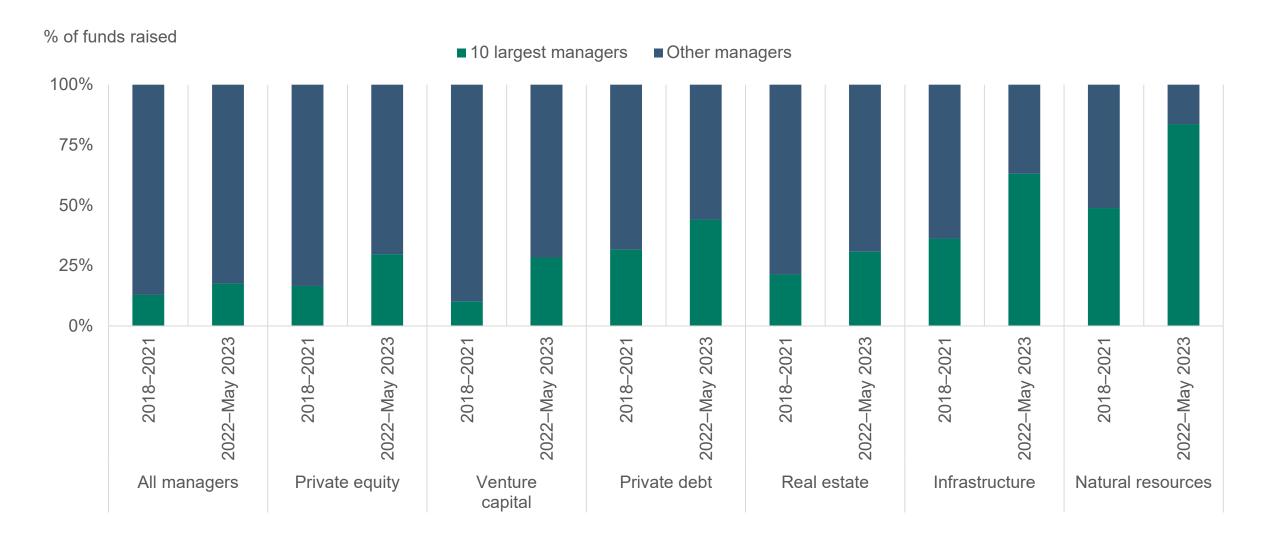
Source: Haver, Apollo Chief Economist

#### Public and private market drawdown periods, since GFC



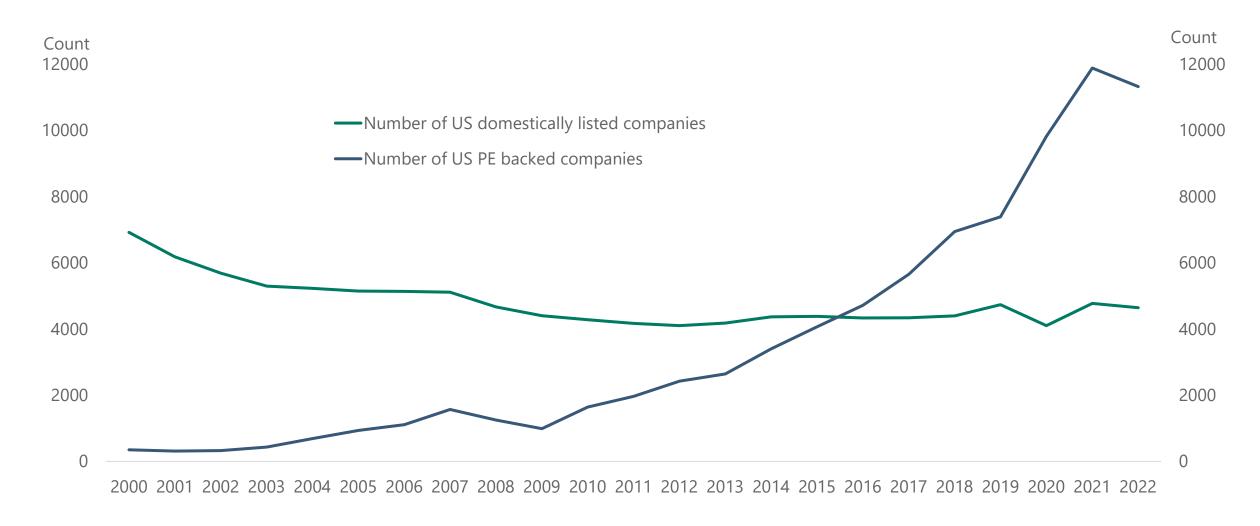
Source: Preqin, Apollo Chief Economist

#### Percentage of private capital funds raised by the 10 largest managers



Source: Preqin, Apollo Chief Economist

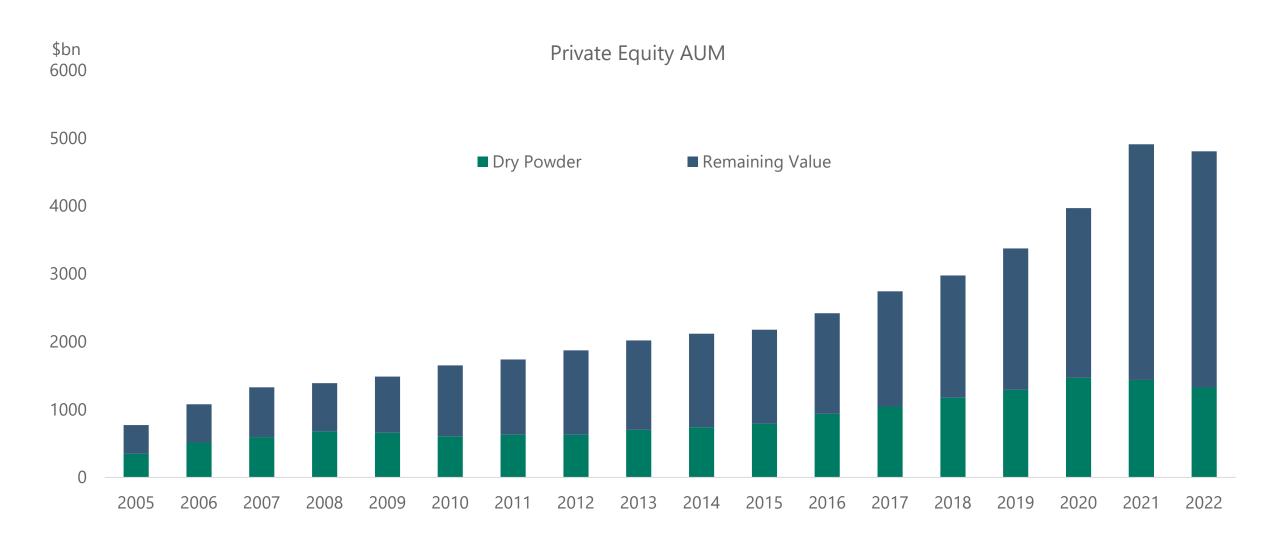
### The number of PE-backed companies and the number of publicly-listed companies



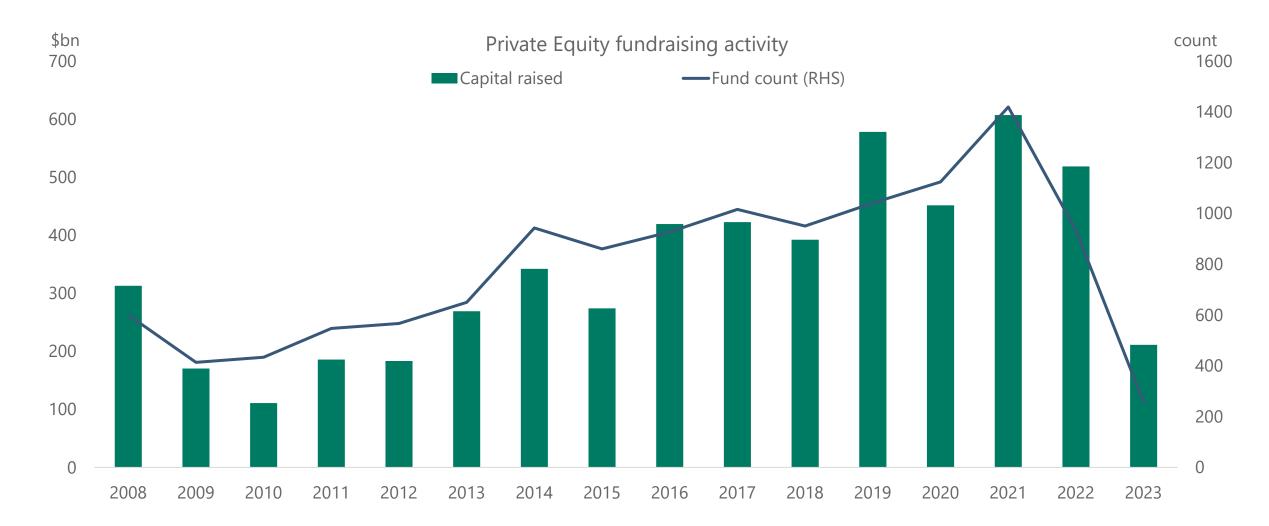
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Private equity

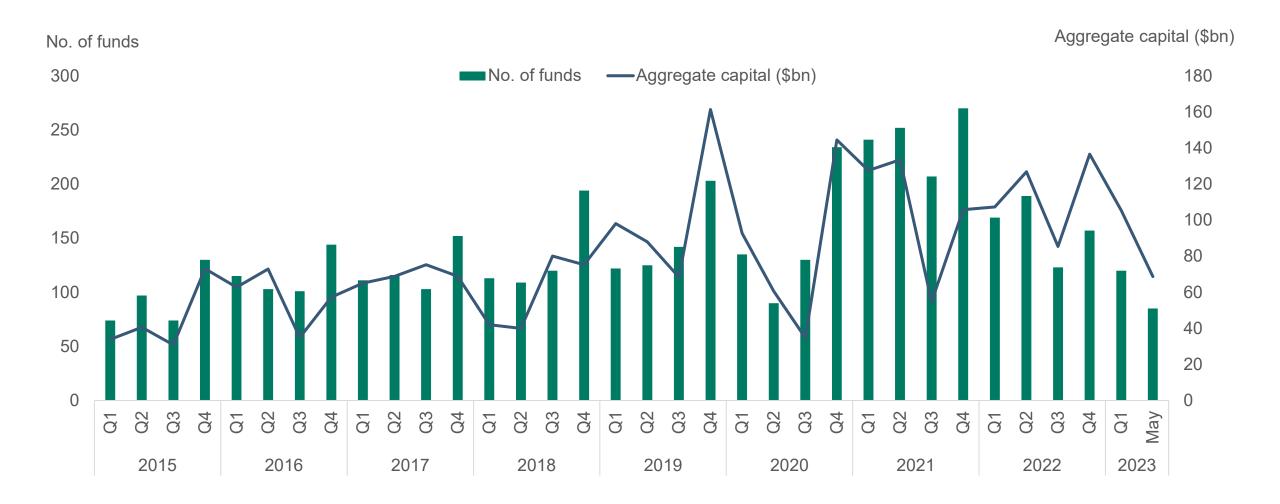
## Global private equity AUM is around \$5trn



## Fundraising activity

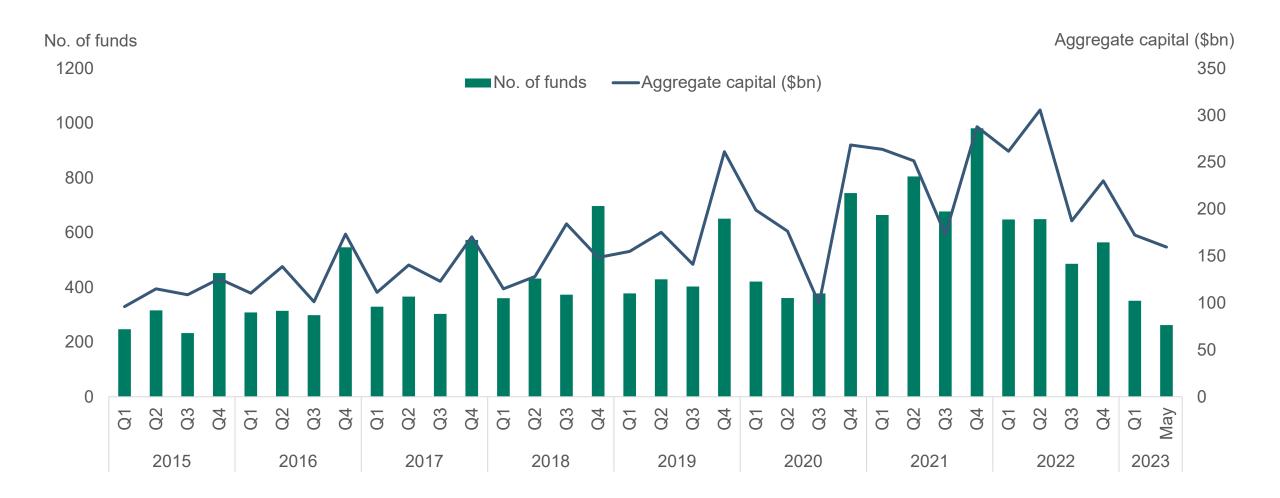


#### North America private equity more concentrated



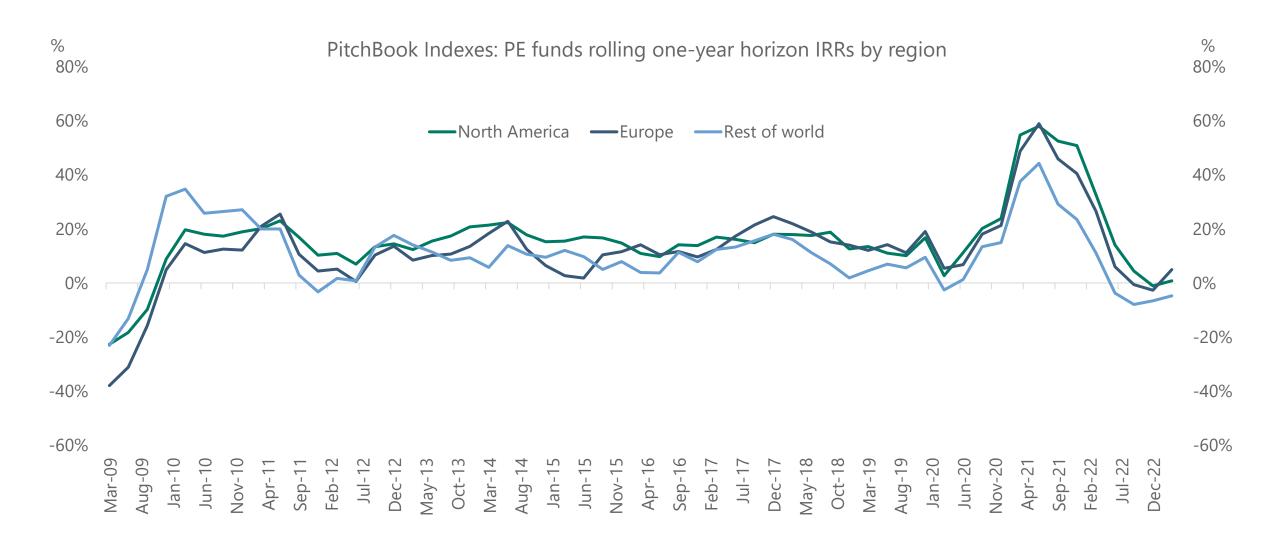
Source: Preqin, Apollo Chief Economist

### Fundraising trending lower

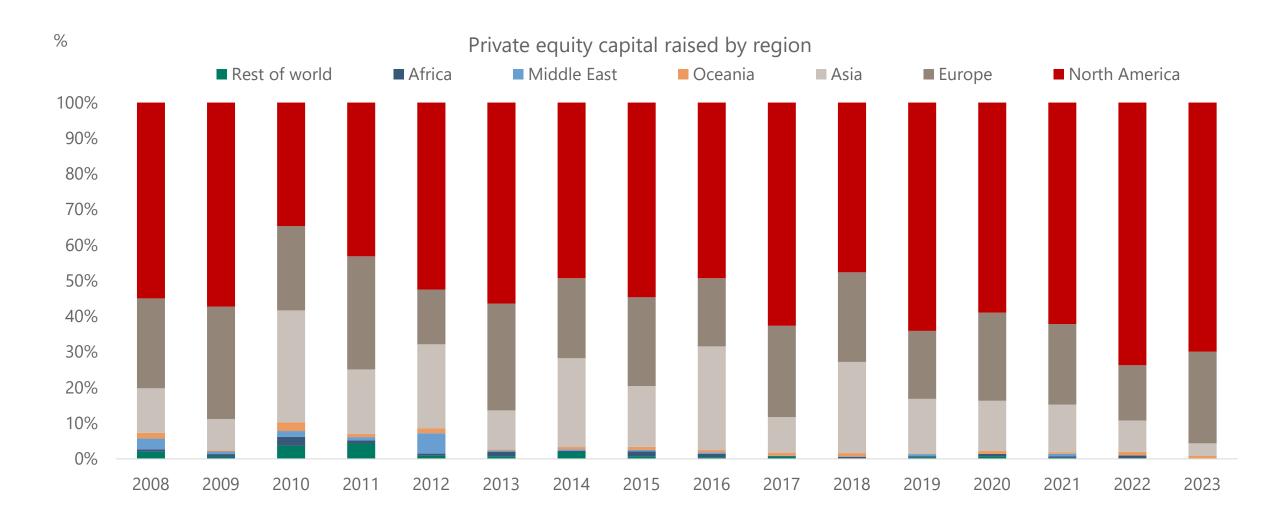


Source: Preqin, Apollo Chief Economist

#### Private Equity returns, by region

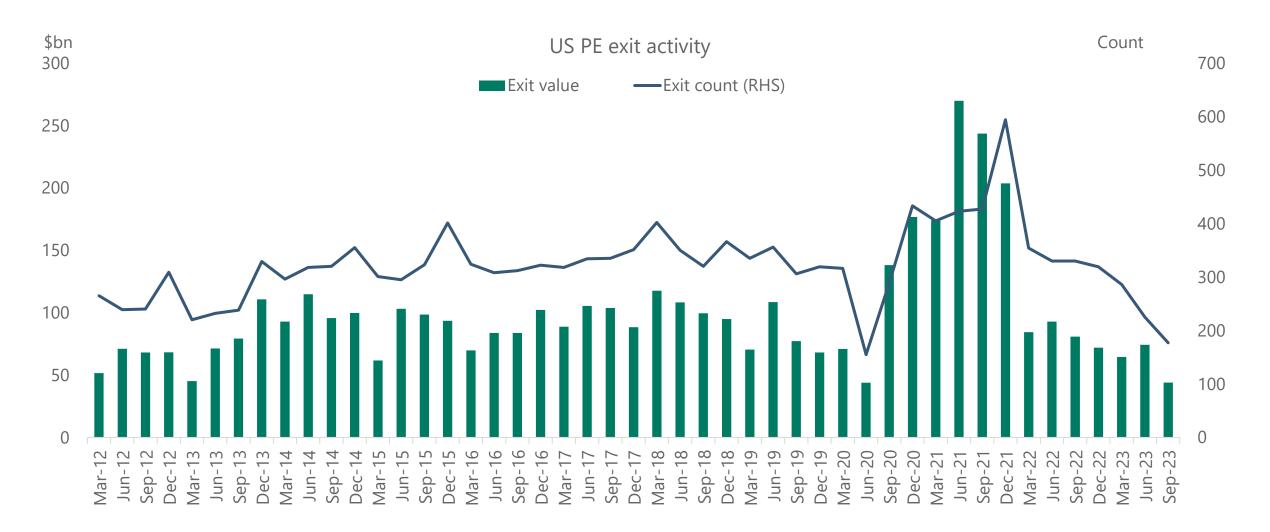


## 70% of global private equity capital is raised in North America

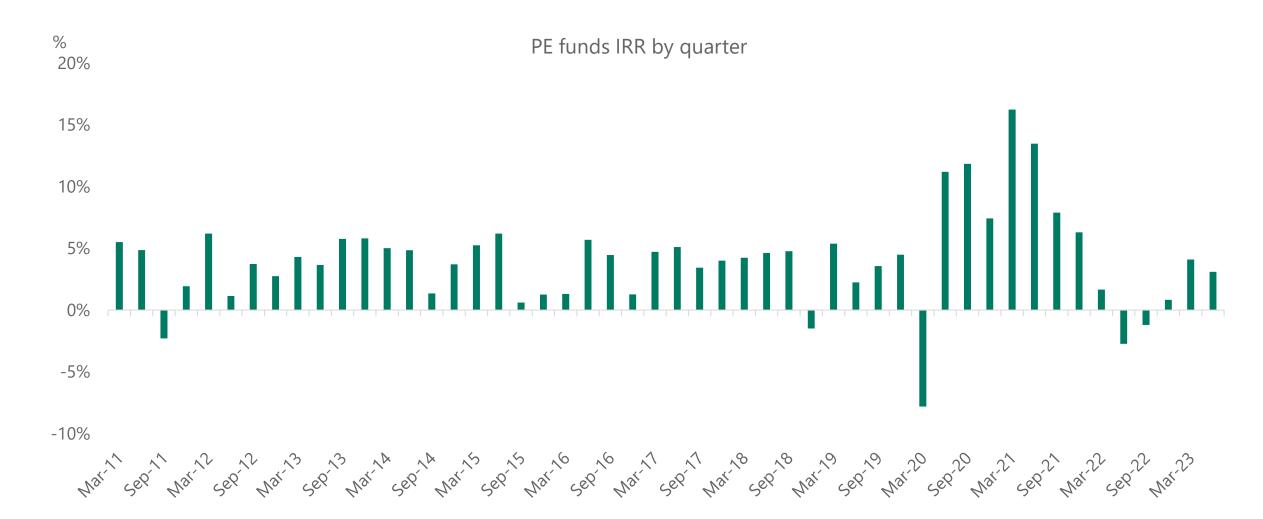


Recent PE deal activity

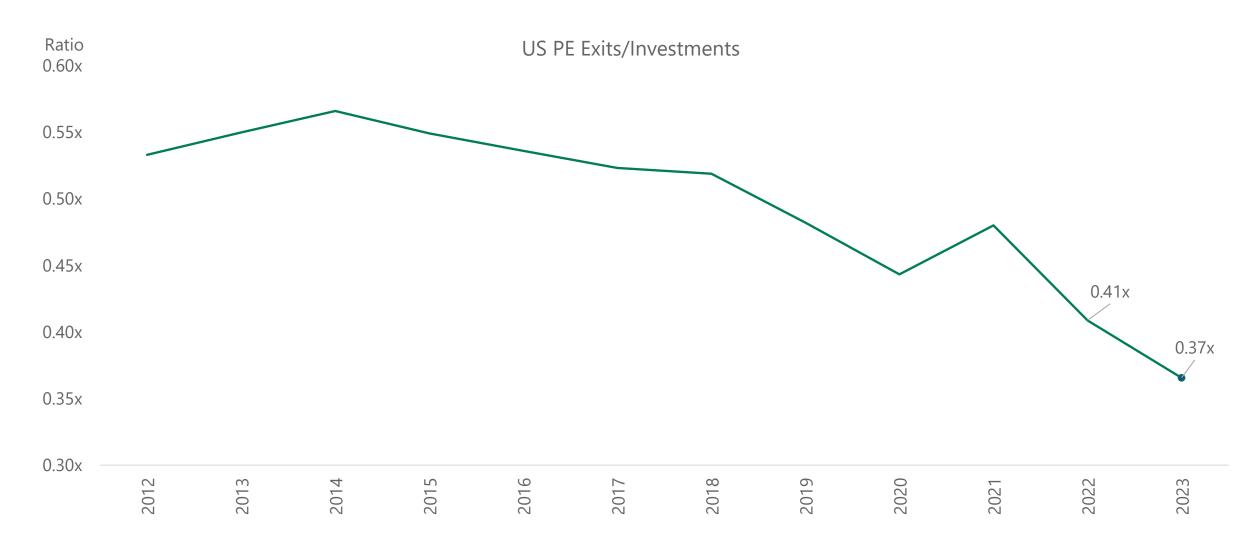
#### PE exit activity falling



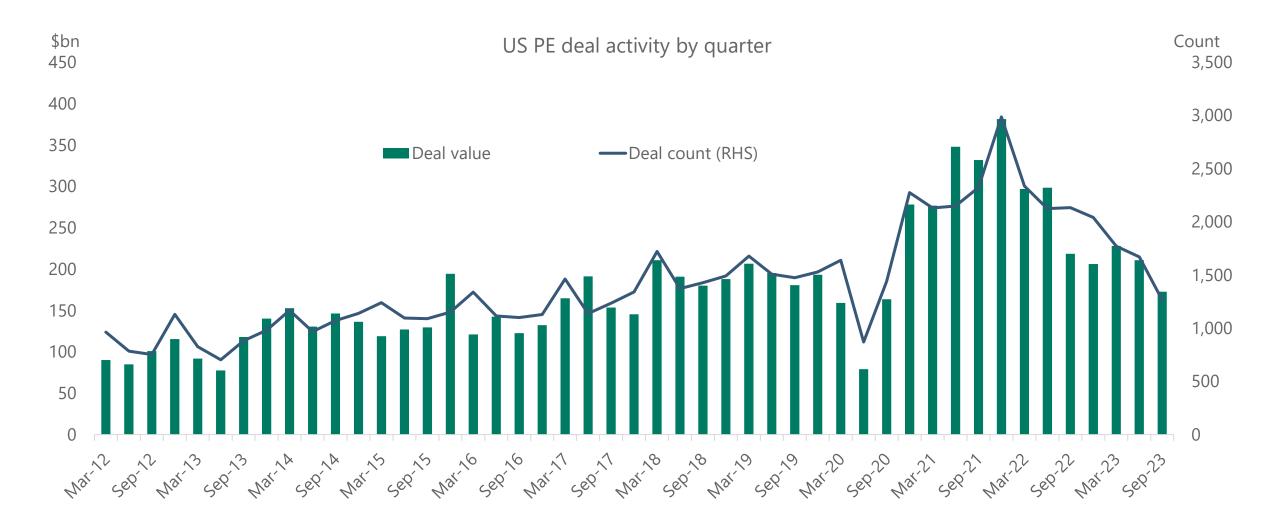
#### PE funds IRR



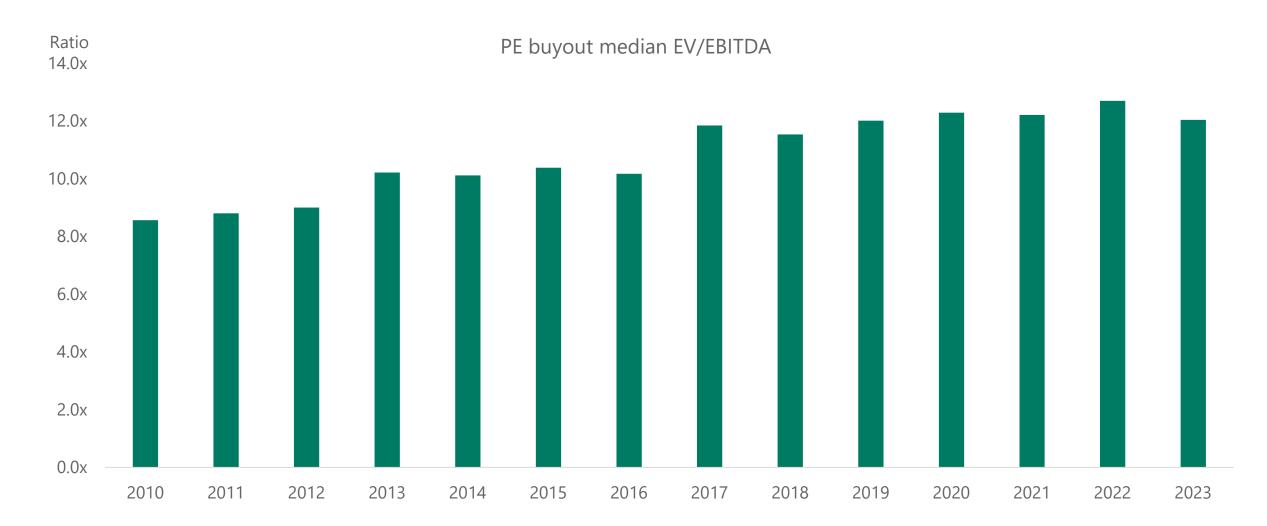
#### The exits-to-investments-ratio is declining



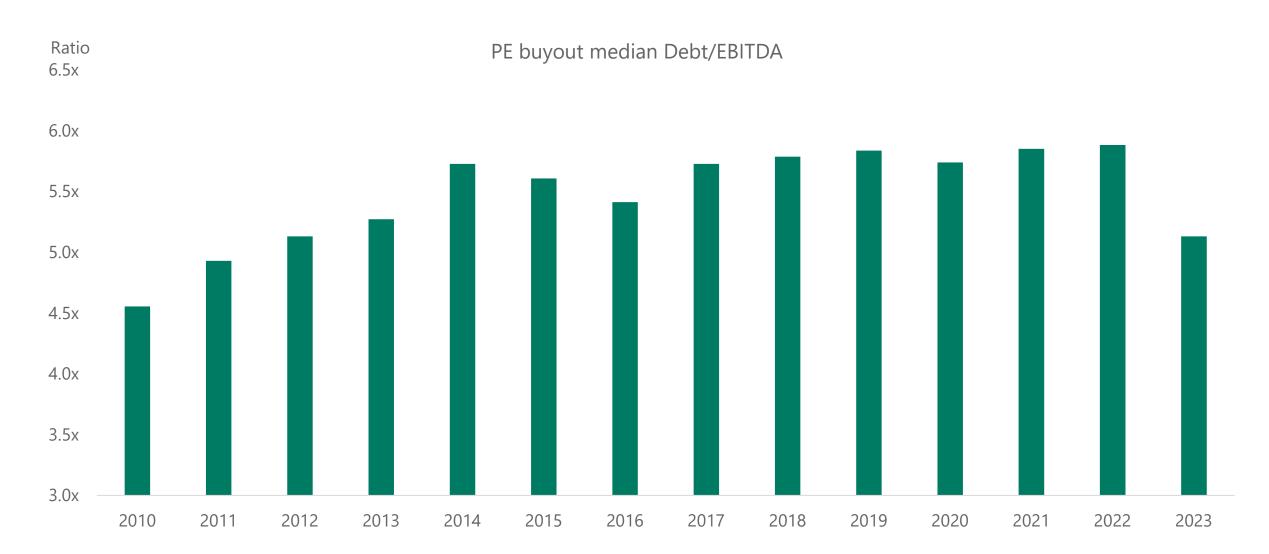
#### US PE deal activity



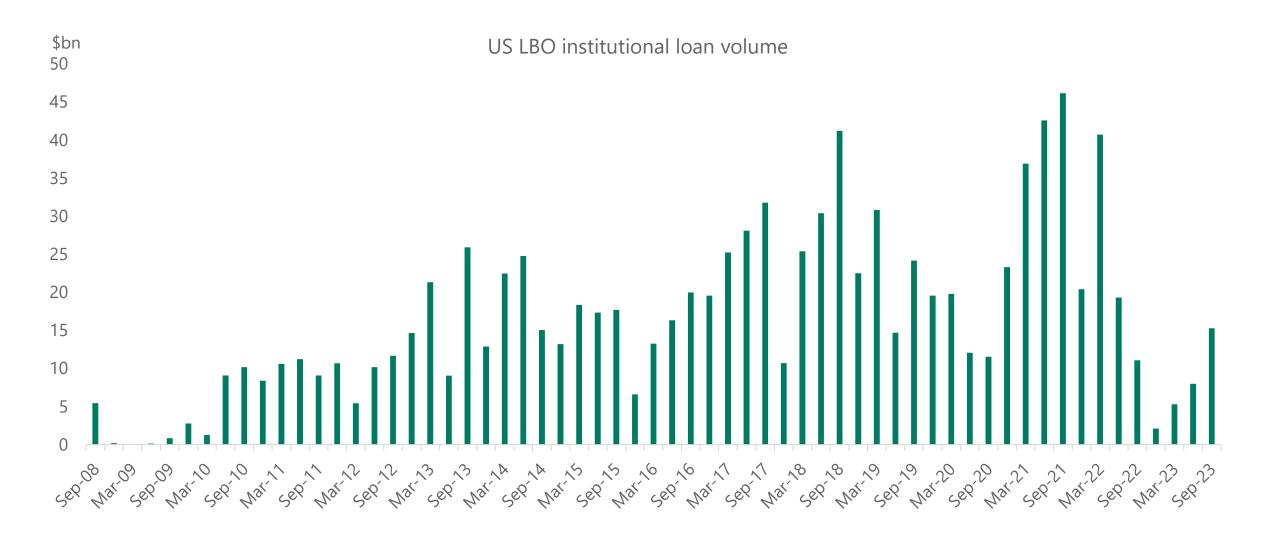
#### Median EV/EBITDA ratio



#### Median Debt/EBITDA has fallen in 2023

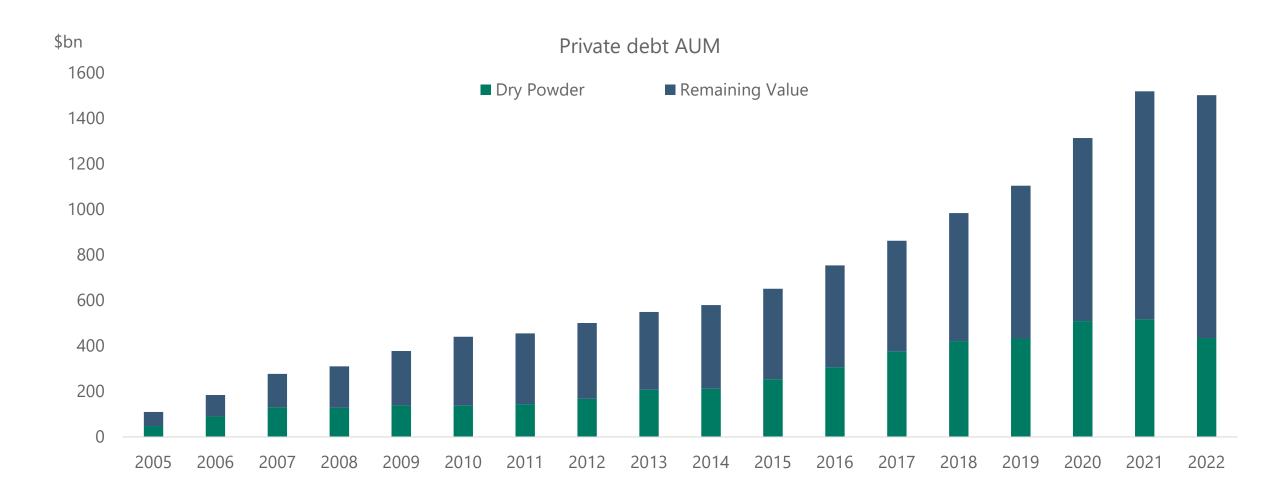


#### LBO loan volume

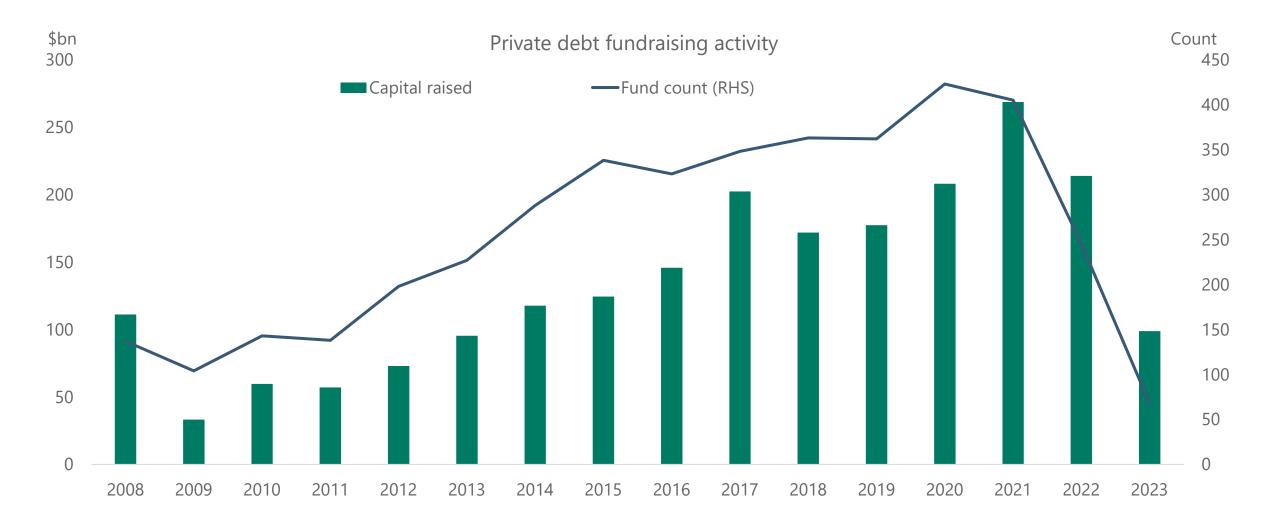


Private credit

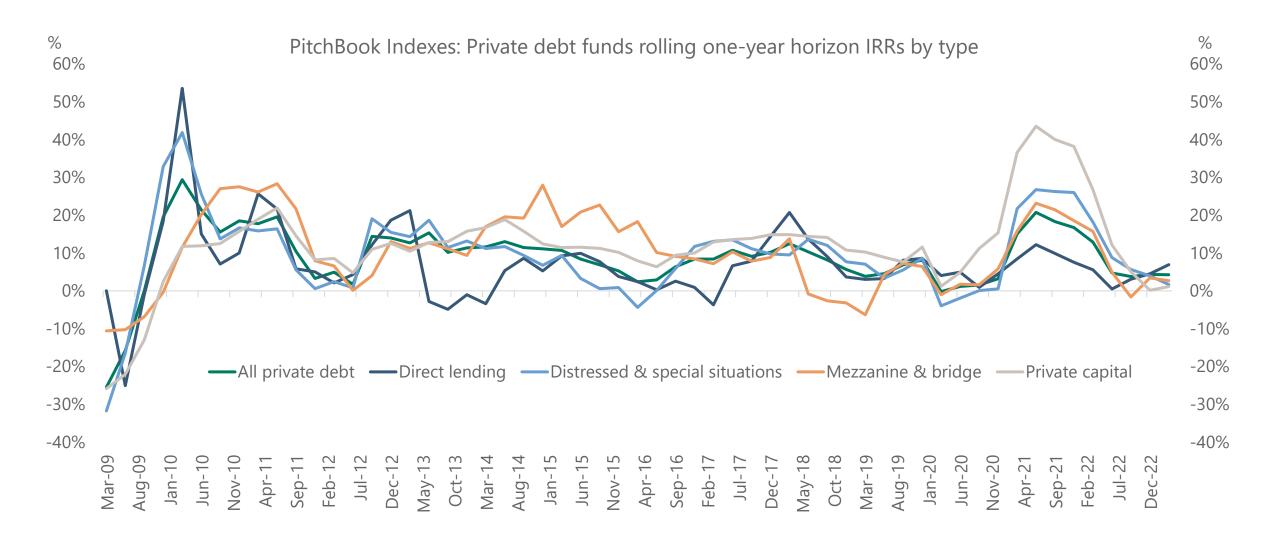
### About \$1.5trn in private credit globally, of which \$400bn is dry powder



#### Private debt fundraising

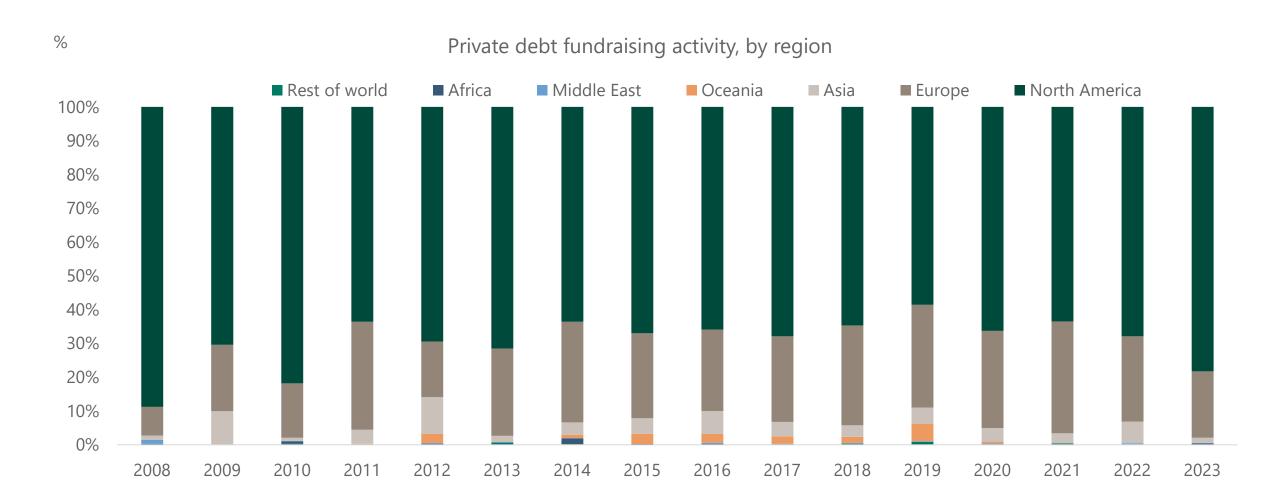


#### Private debt returns by strategy

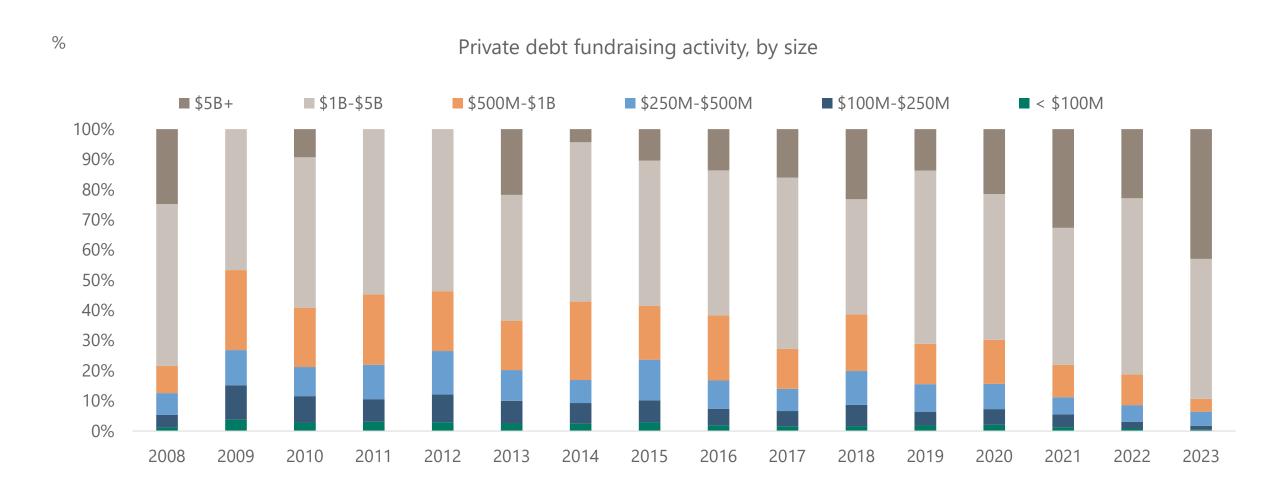


Source: Pitchbook, Apollo Chief Economist. Note: Data as of 31st March 2023

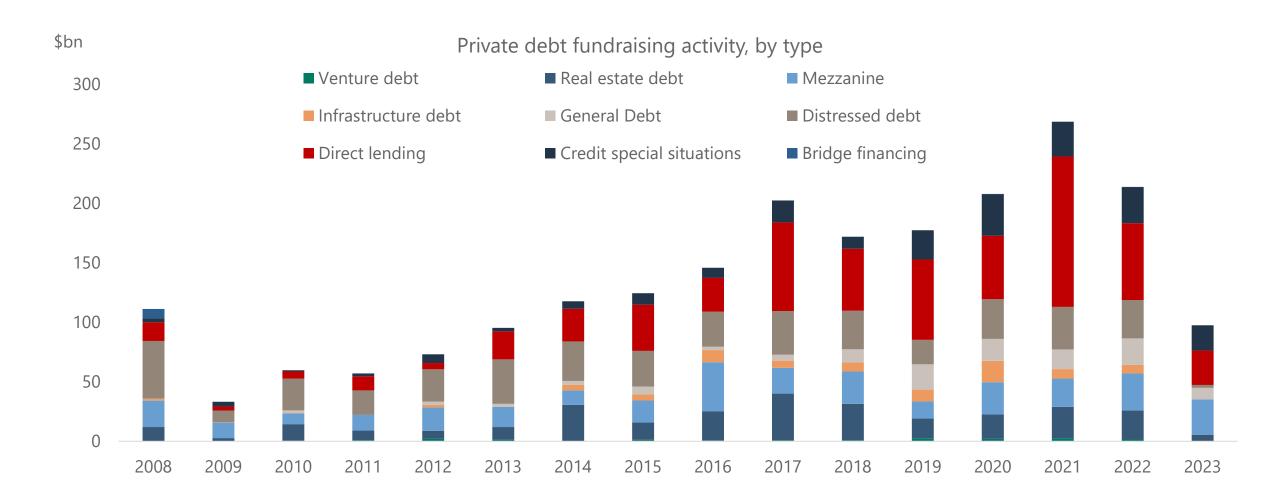
## Private debt fundraising activity, by region



#### Private debt fundraising activity, by size



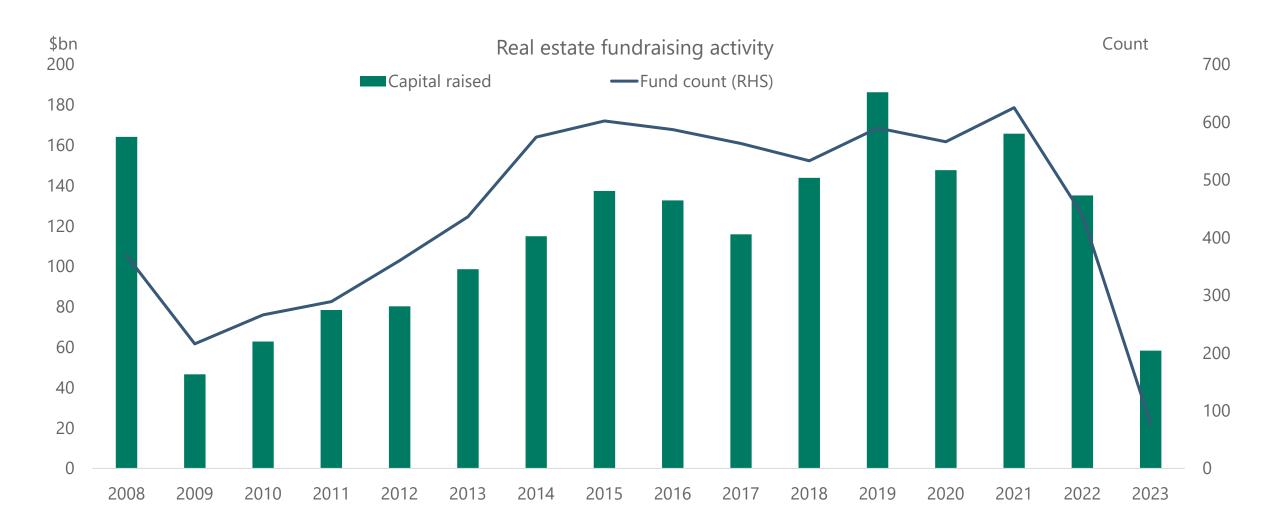
#### Private debt fundraising activity, by type



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Real estate

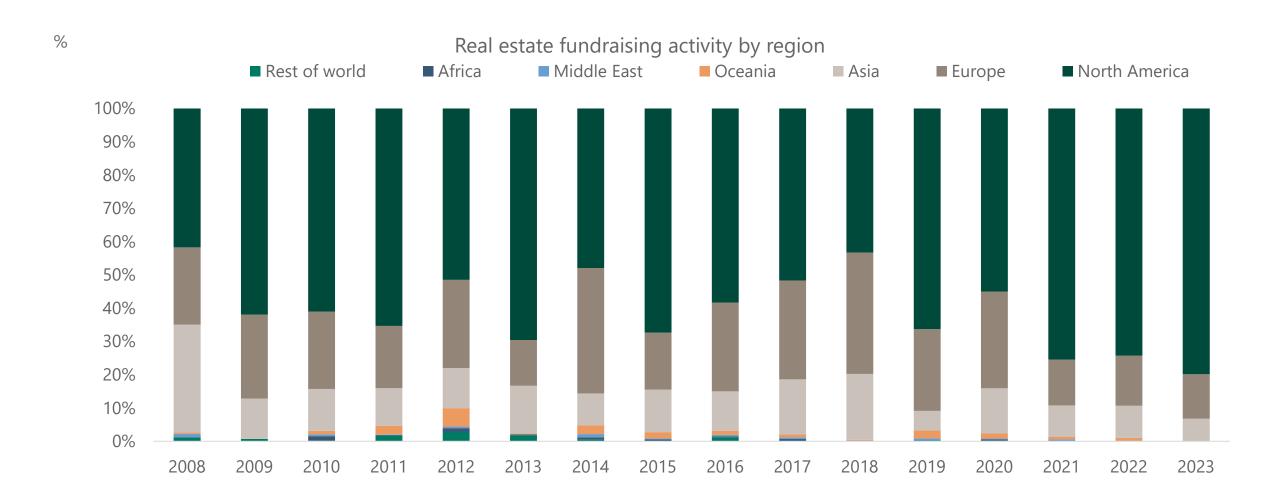
# Real estate fundraising activity



#### Real estate fundraising led by experienced firms

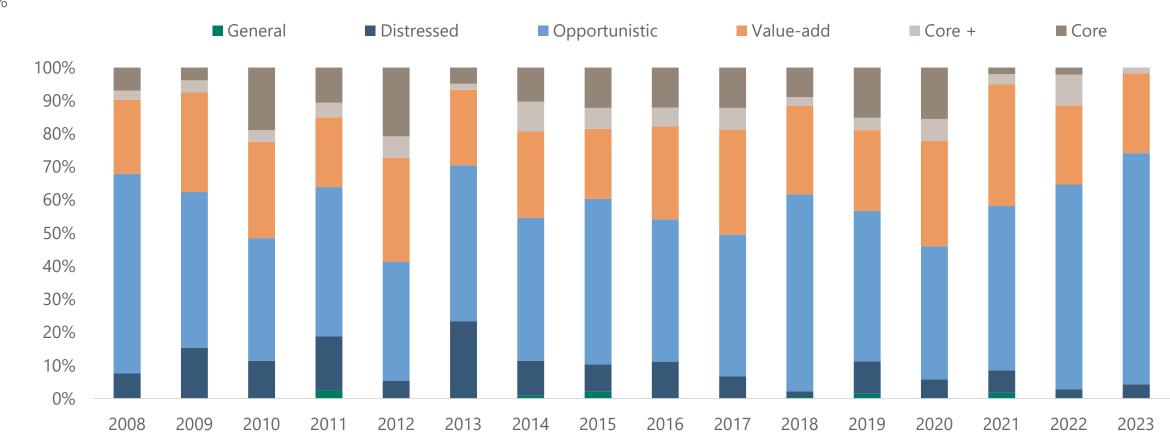


#### 80% of real estate fundraising is in North America



# Real estate fundraising activity by type

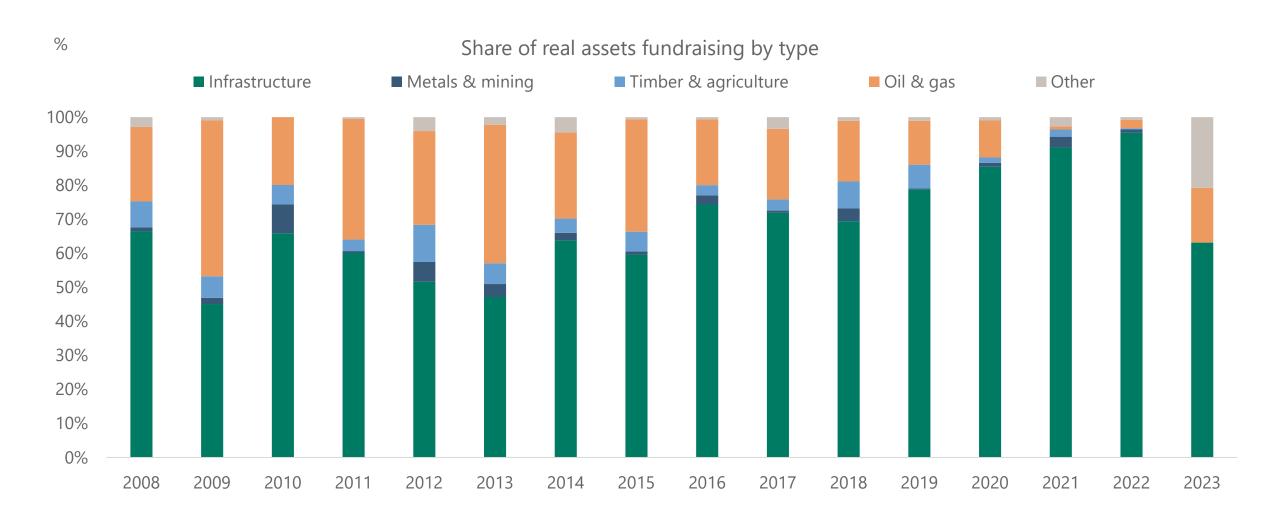




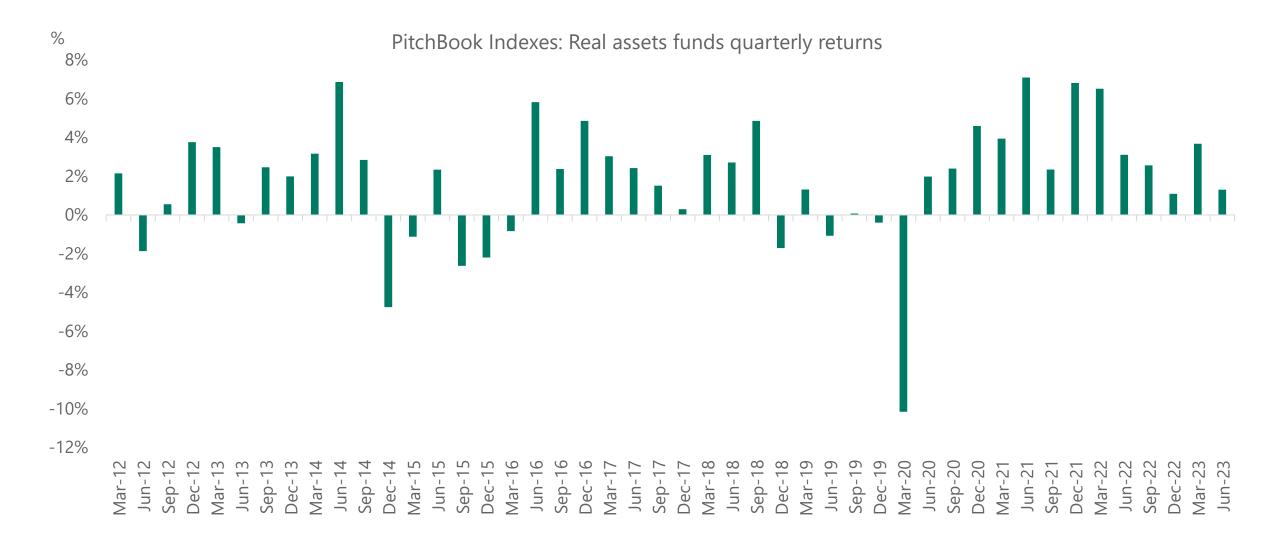
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Real assets

#### Real assets is mainly infrastructure



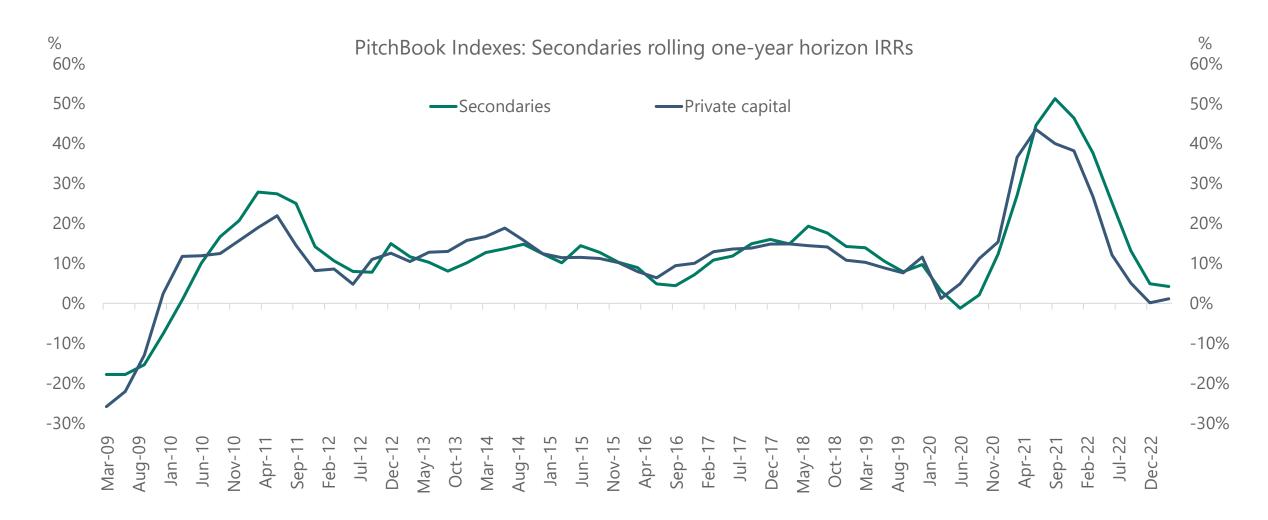
#### Real assets performance



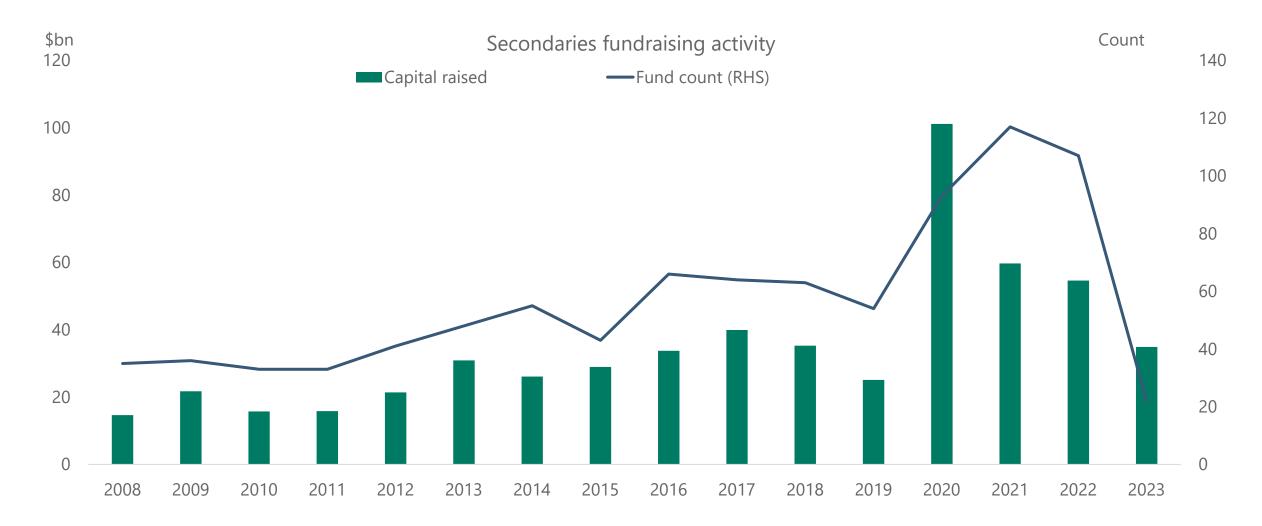
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# Secondaries

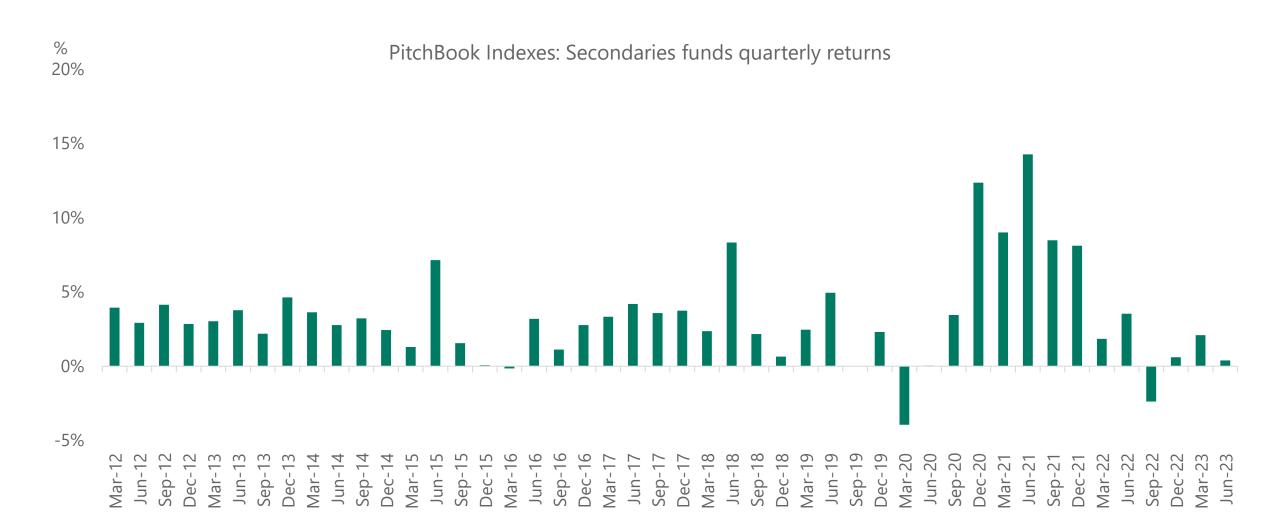
#### Secondaries performance



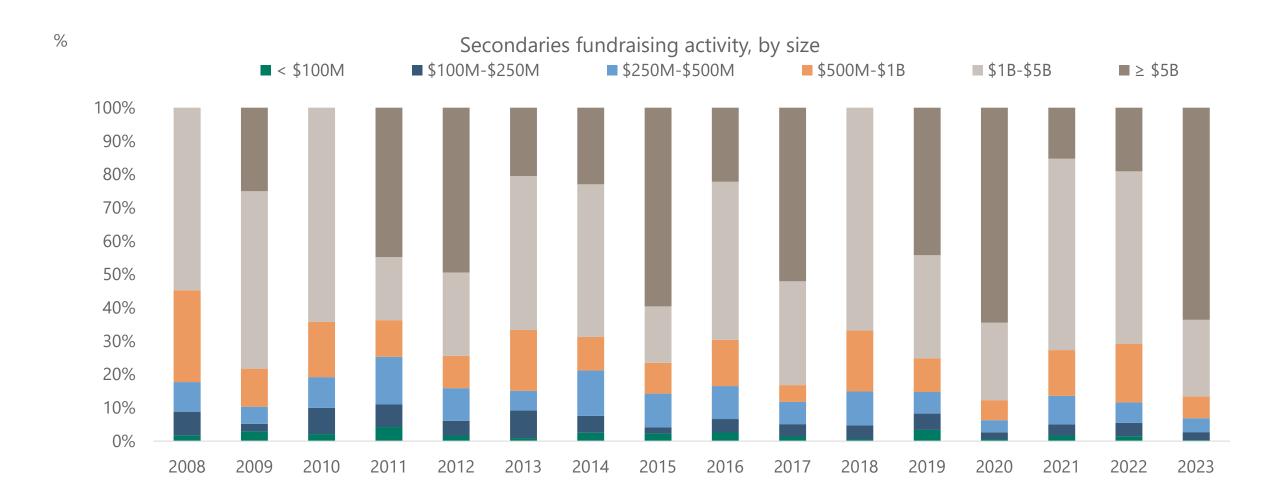
#### Secondaries fundraising activity



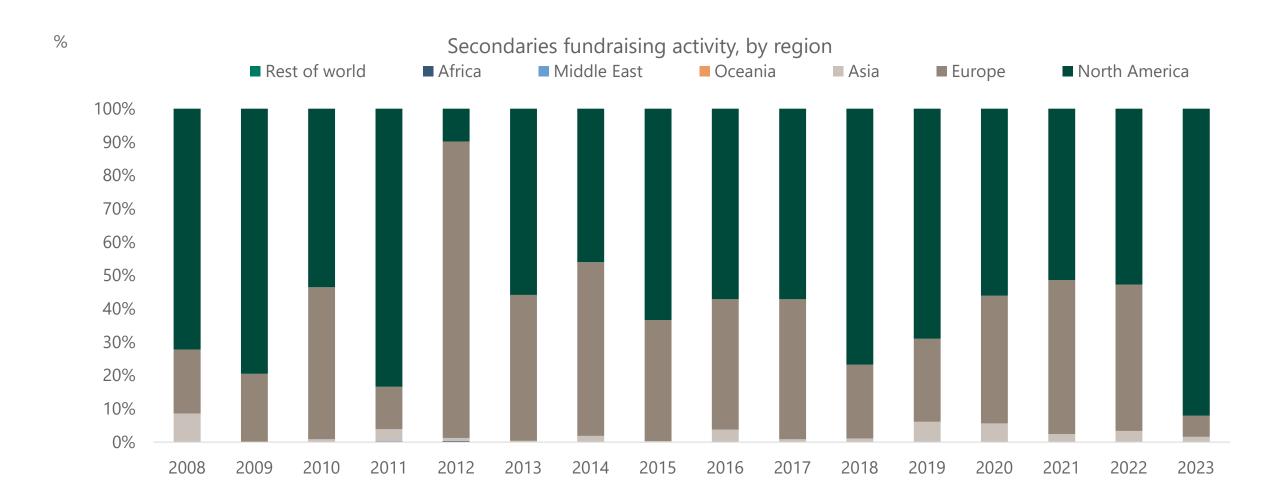
#### Secondaries quarterly returns



#### Secondaries fundraising activity, by size

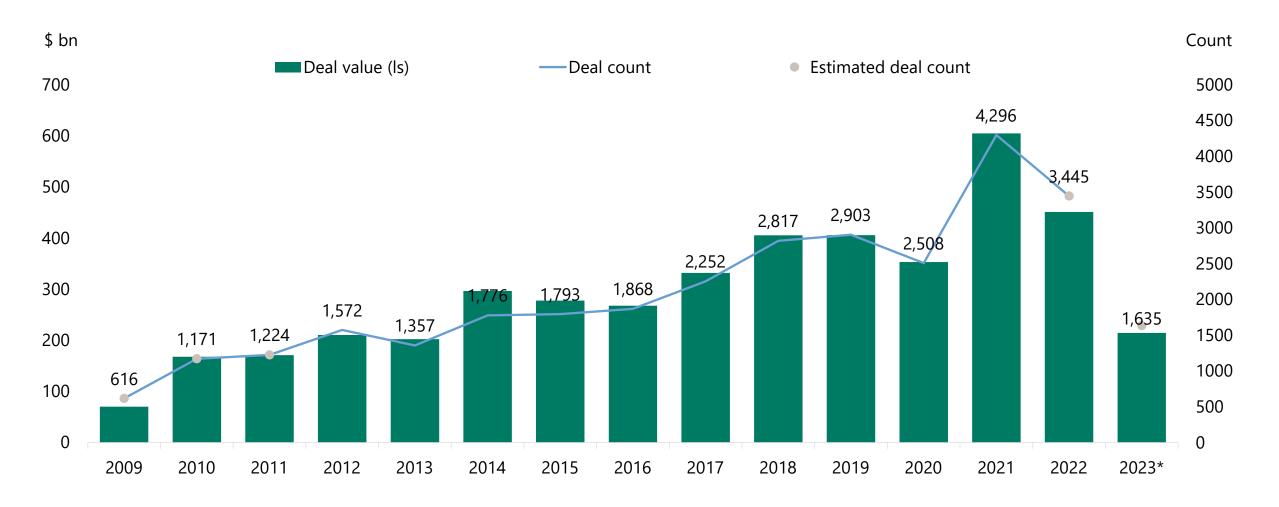


#### Secondaries fundraising activity, by region



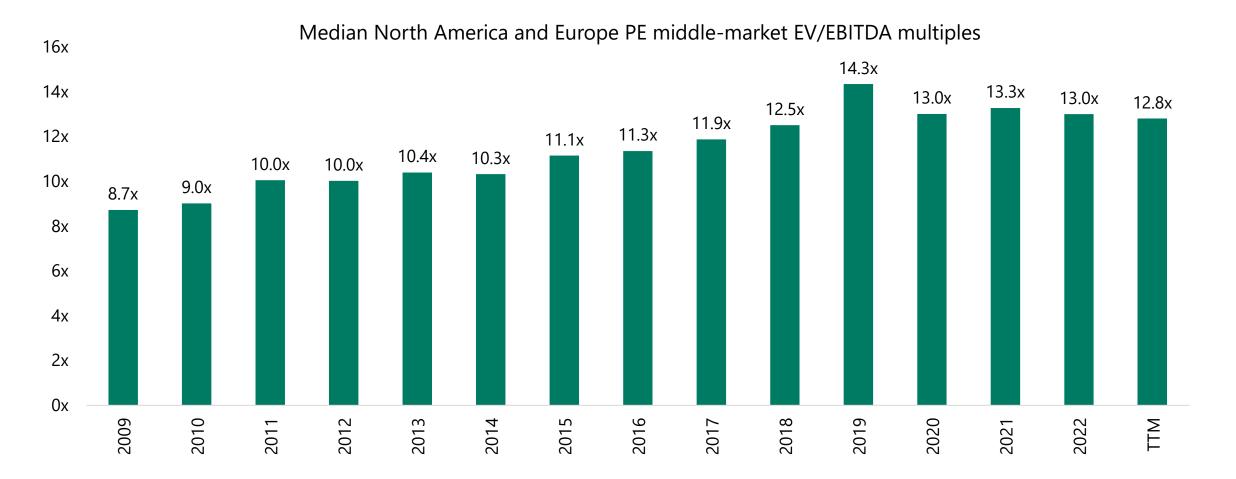
# Middle Market

#### US PE middle market deal activity

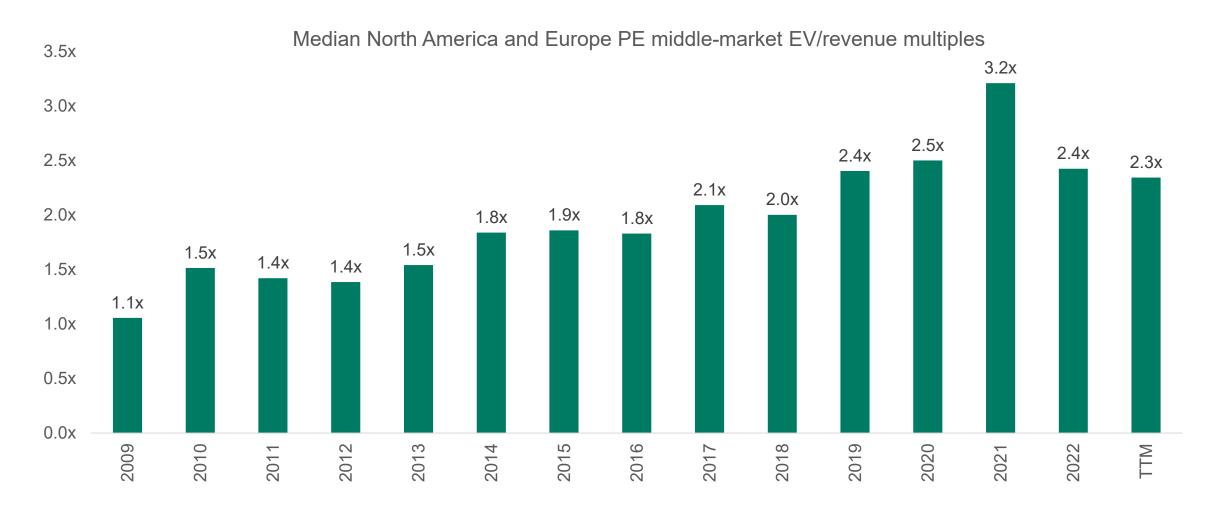


55

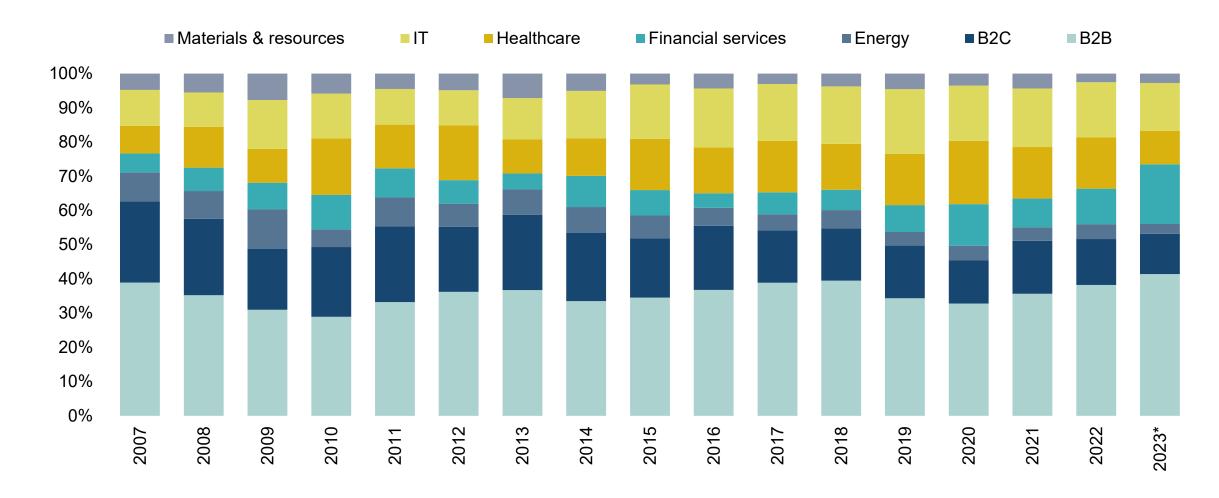
#### Median North America and Europe PE middle-market EV/EBITDA multiples



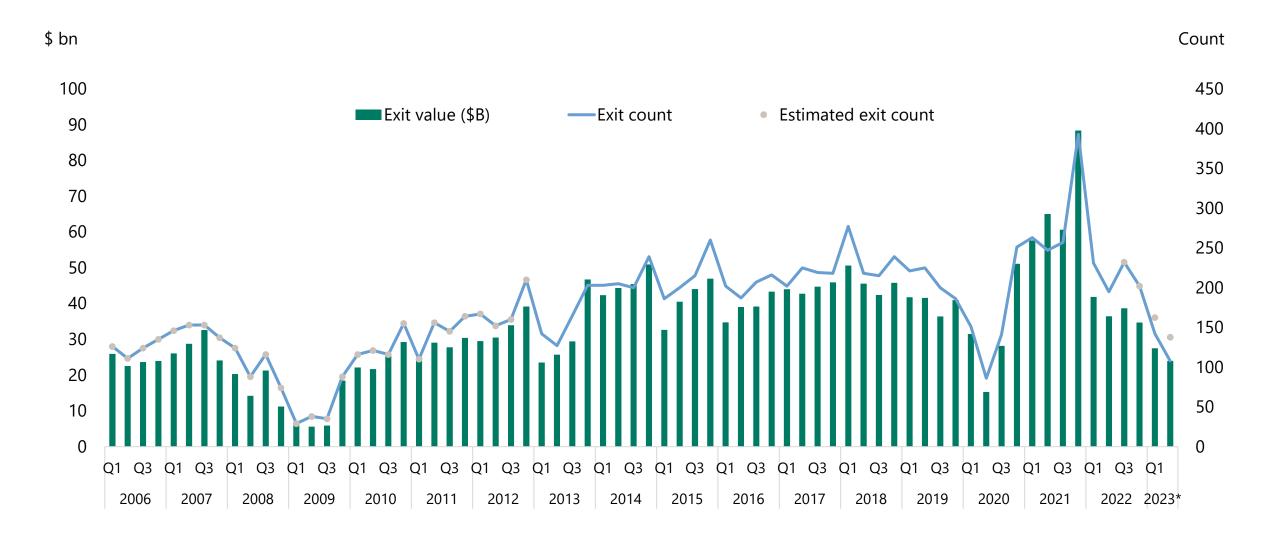
#### Median North America and Europe PE middle-market EV/revenue multiples



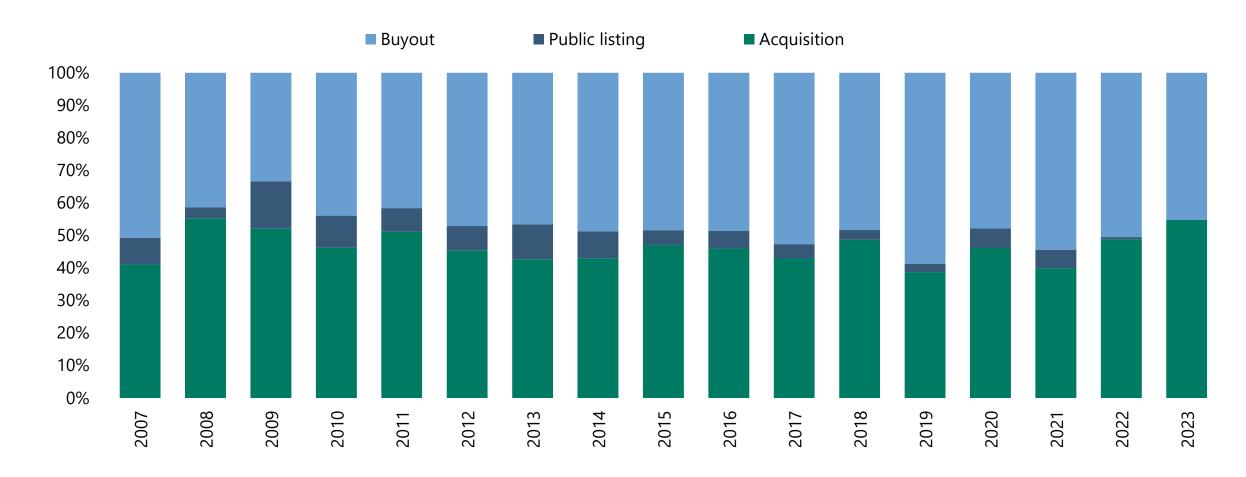
#### Share of US PE middle-market deal value by sector



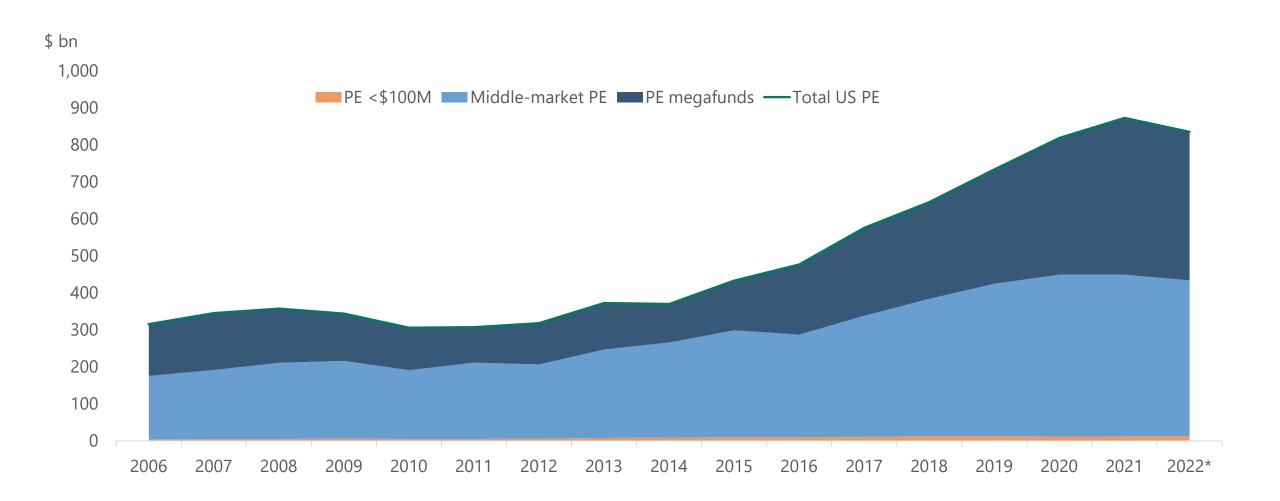
#### US PE middle-market exit activity by quarter



# US PE middle-market exit value by type



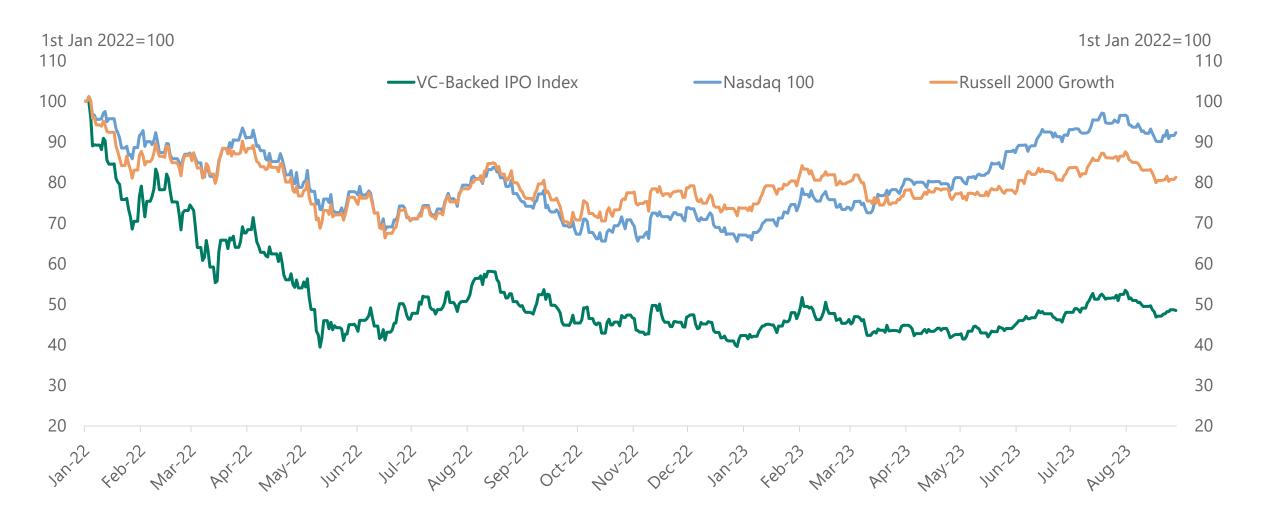
# The composition of PE dry powder



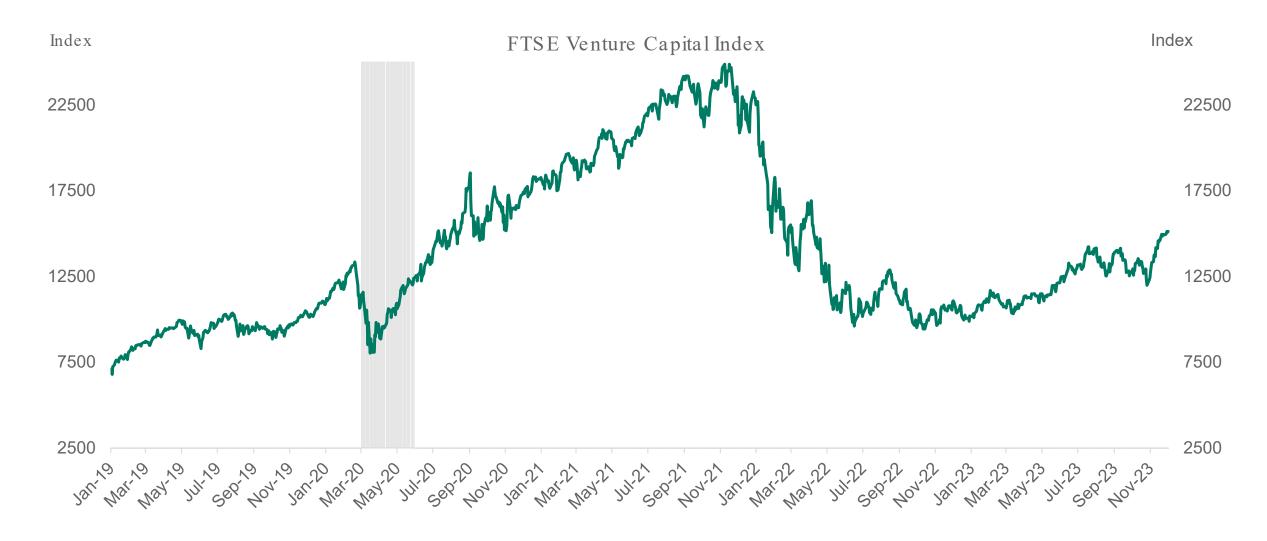
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# Venture Capital

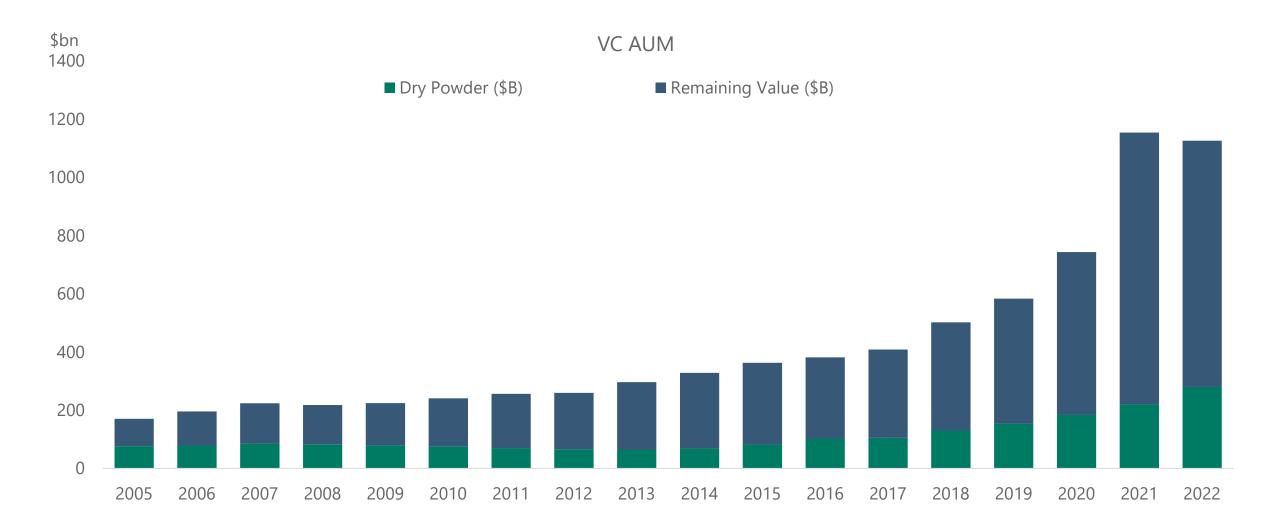
#### VC-backed IPOs are down 50%



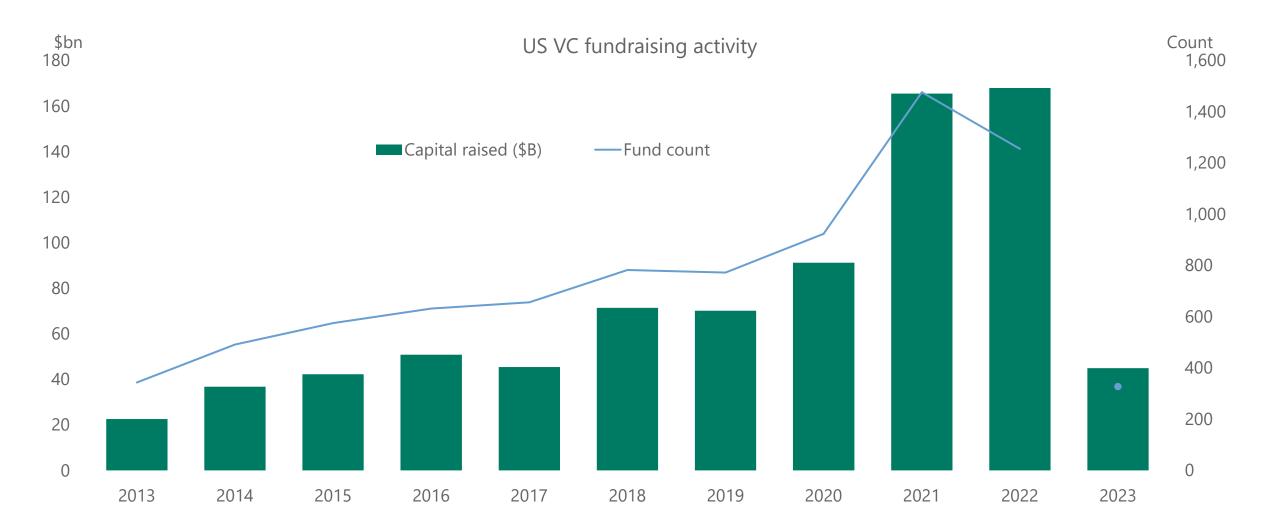
#### US venture capital valuations down 40% from the peak



# VC assets under management

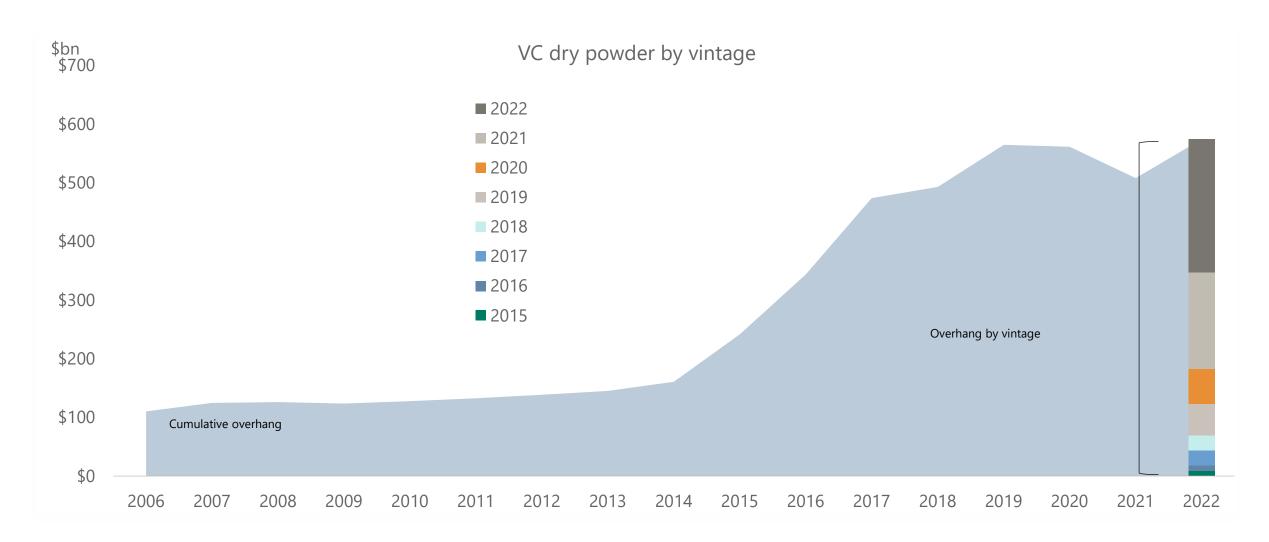


# VC fundraising activity very weak

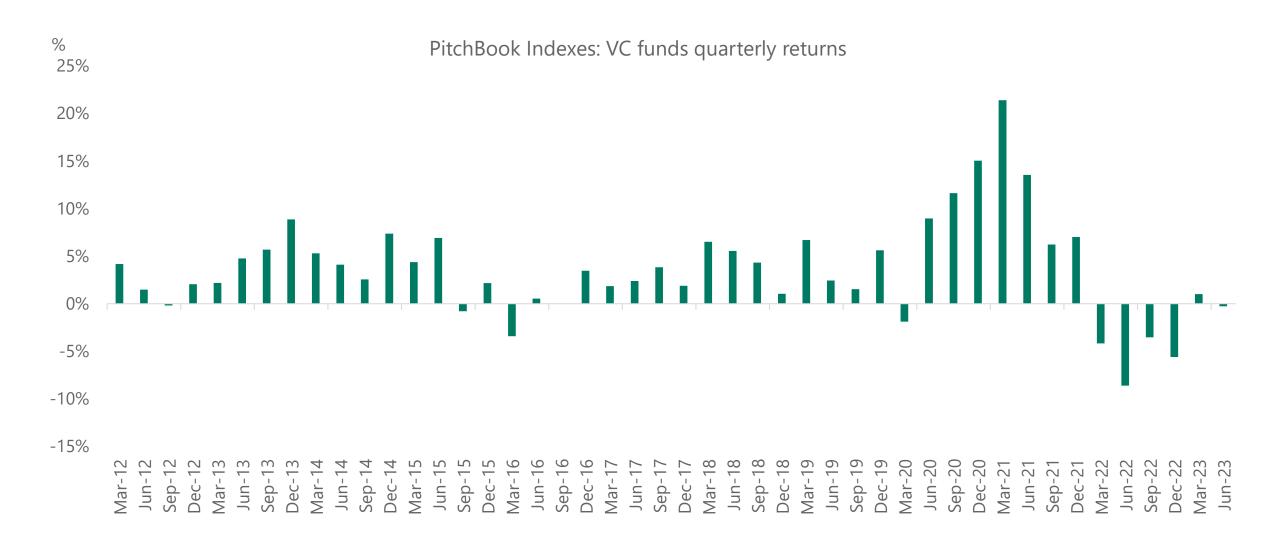


Source: Pitchbook, Apollo Chief Economist. Note: Data as of 30/6/2023

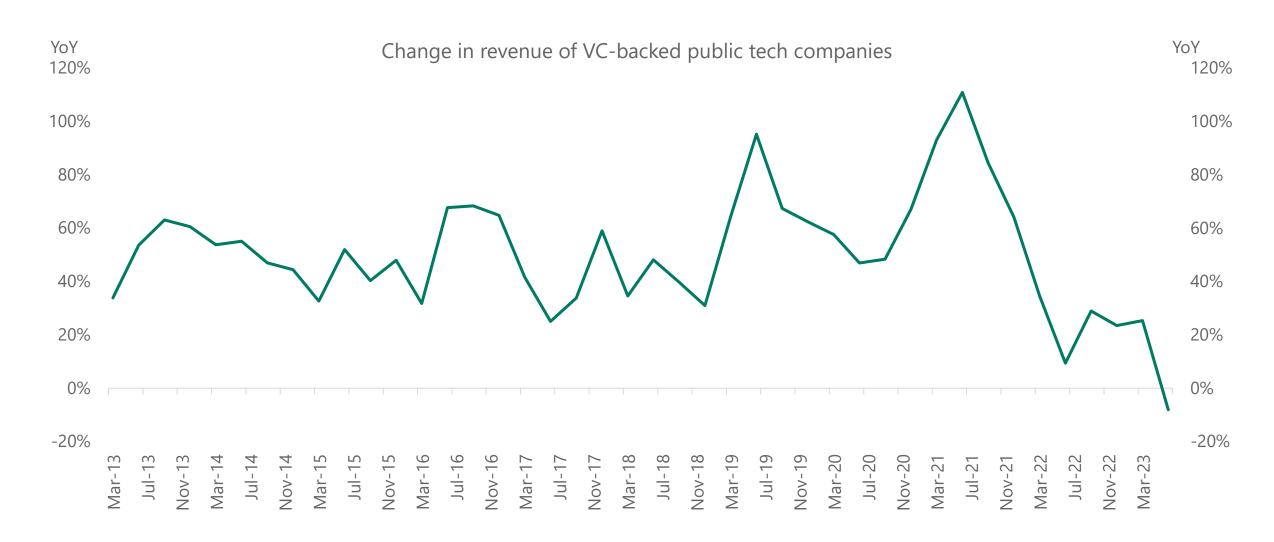
#### VC dry powder by vintage



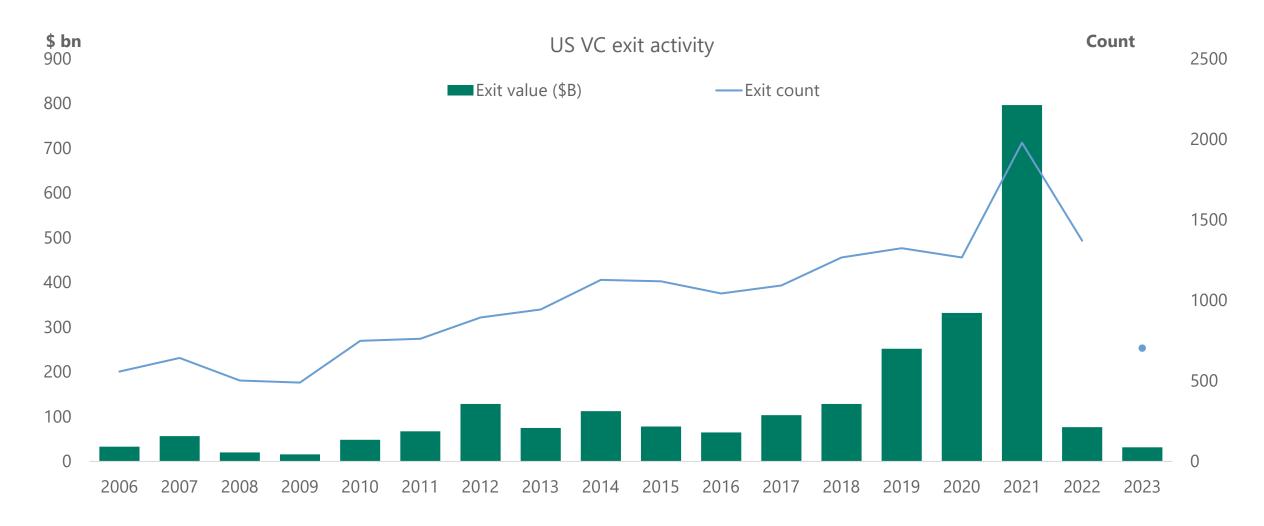
#### VC returns negative



#### Revenue growth in VC-backed public tech companies has turned negative

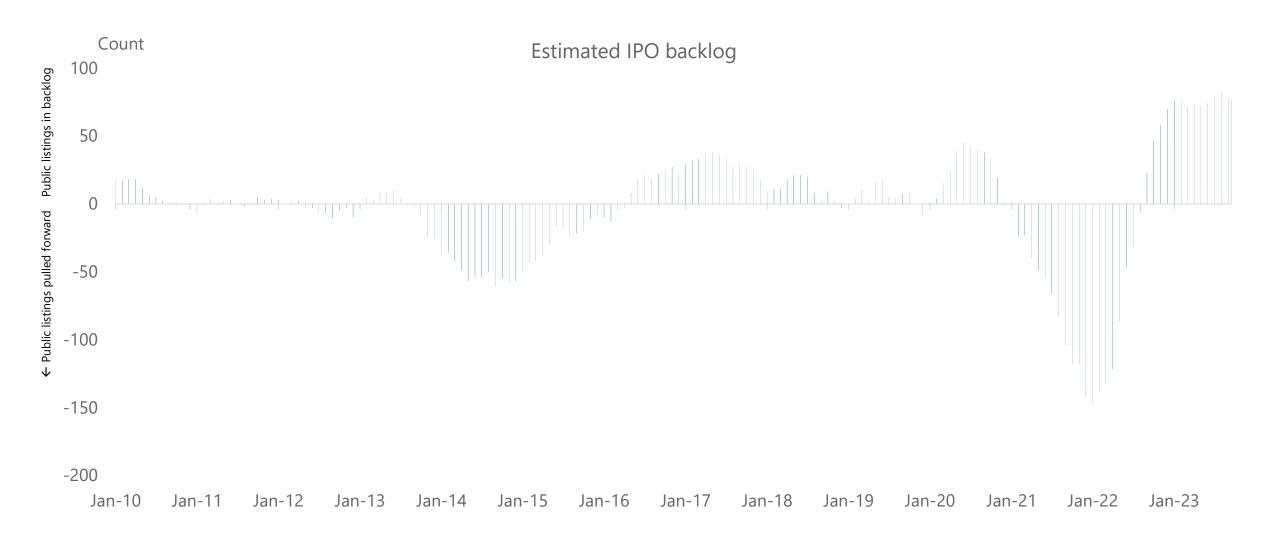


#### VC exit activity



70

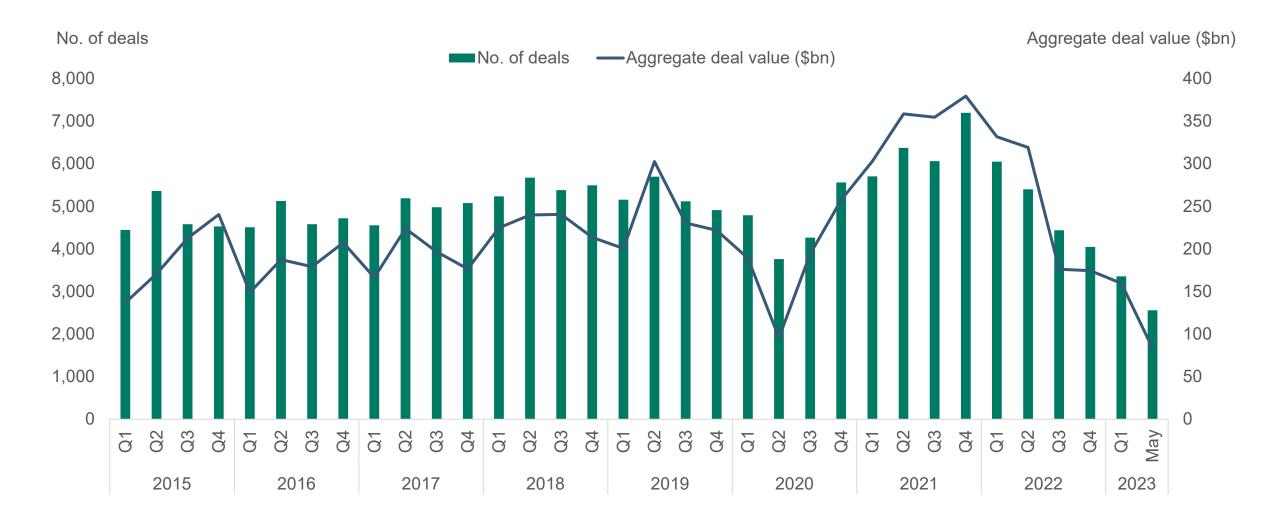
#### Backlog of VC-backed IPOs piling up



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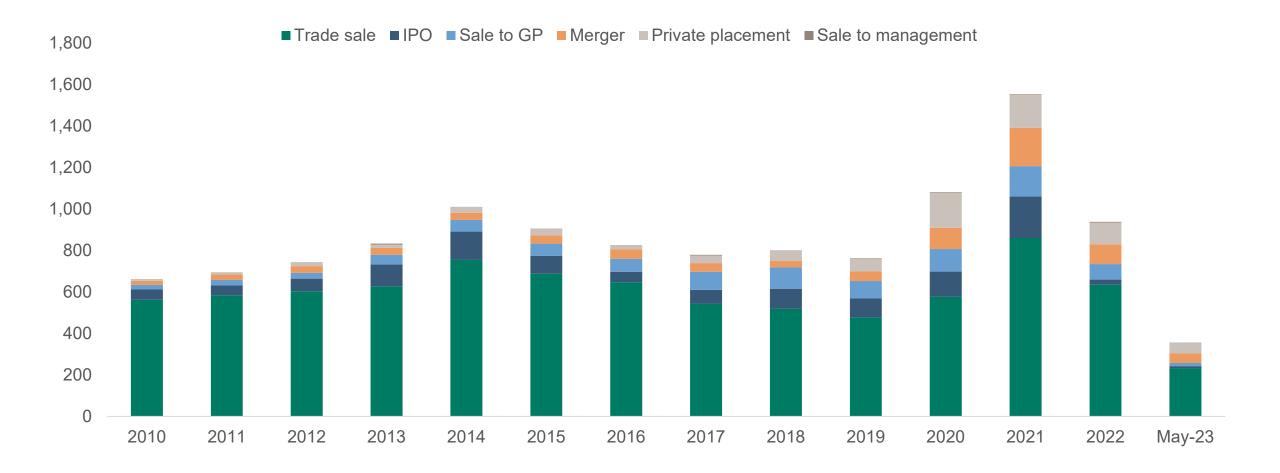
Recent LBO activity

### Deal making slowing



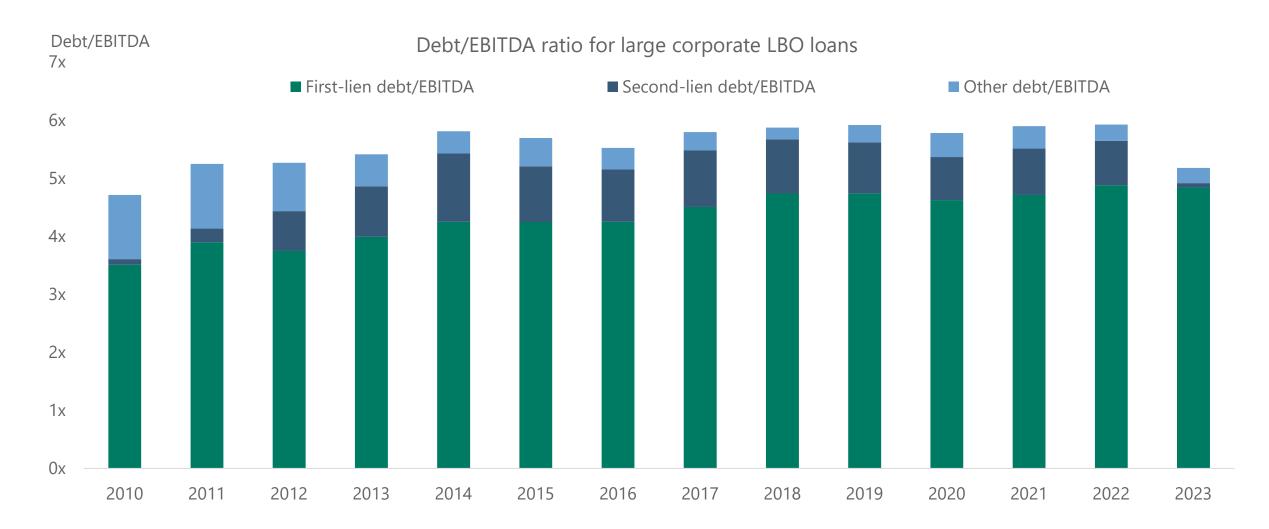
Source: Preqin, Apollo Chief Economist

## IPO activity

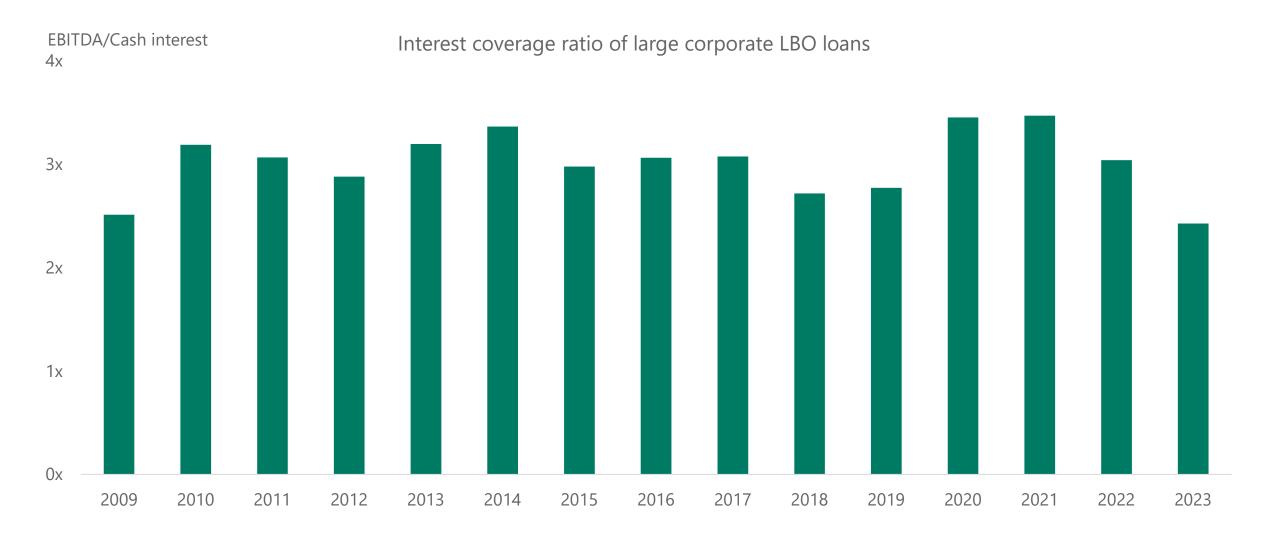


Source: Preqin, Apollo Chief Economist

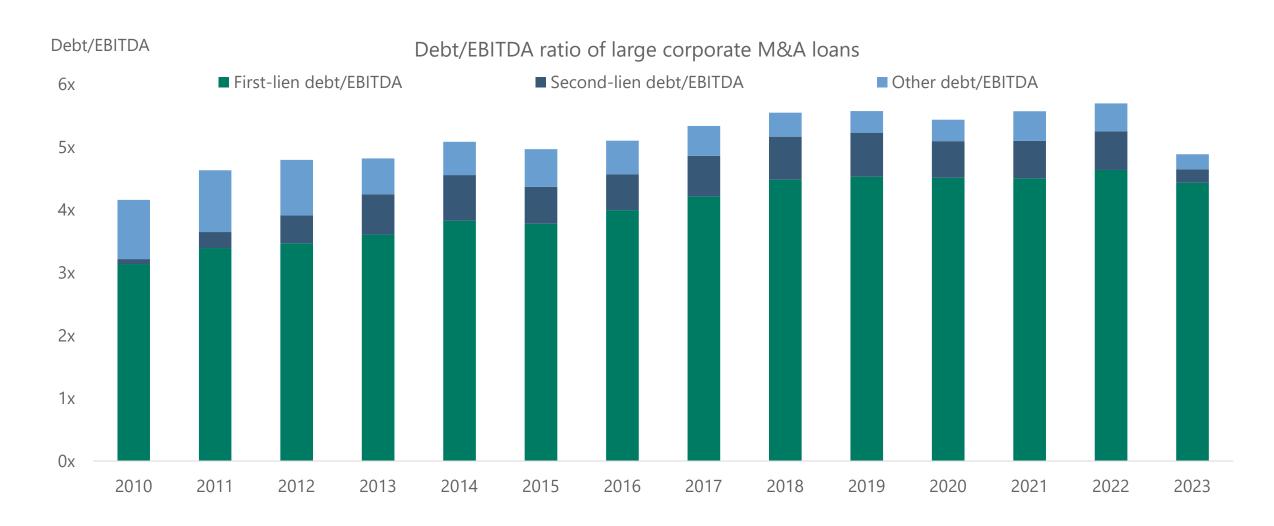
#### Leverage for large corporate LBOs has fallen



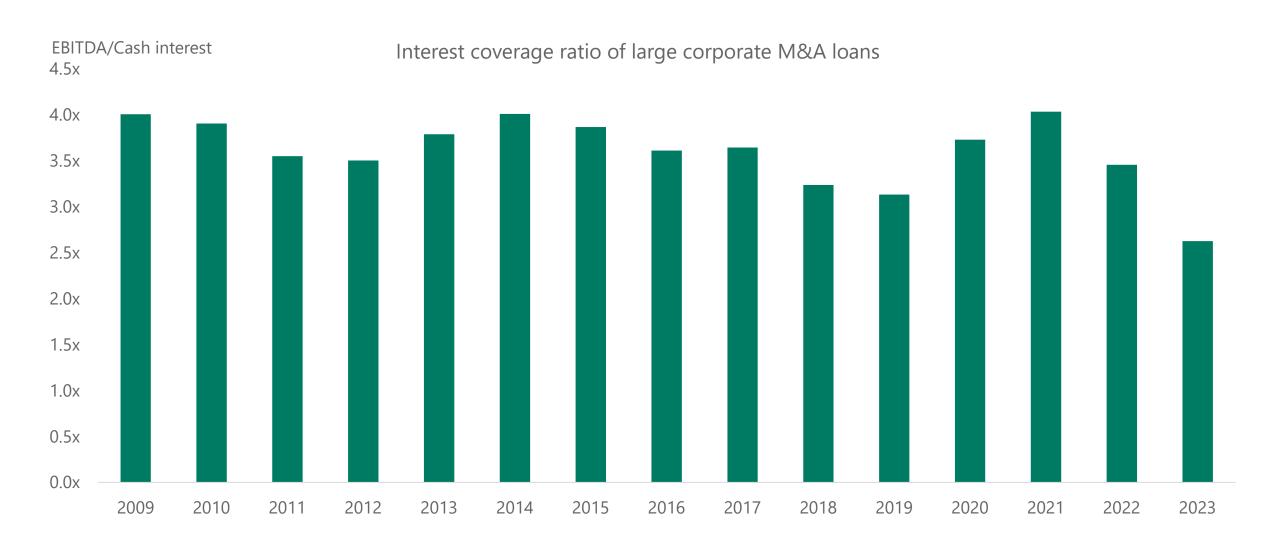
## Interest coverage ratio for large corporate LBOs is declining



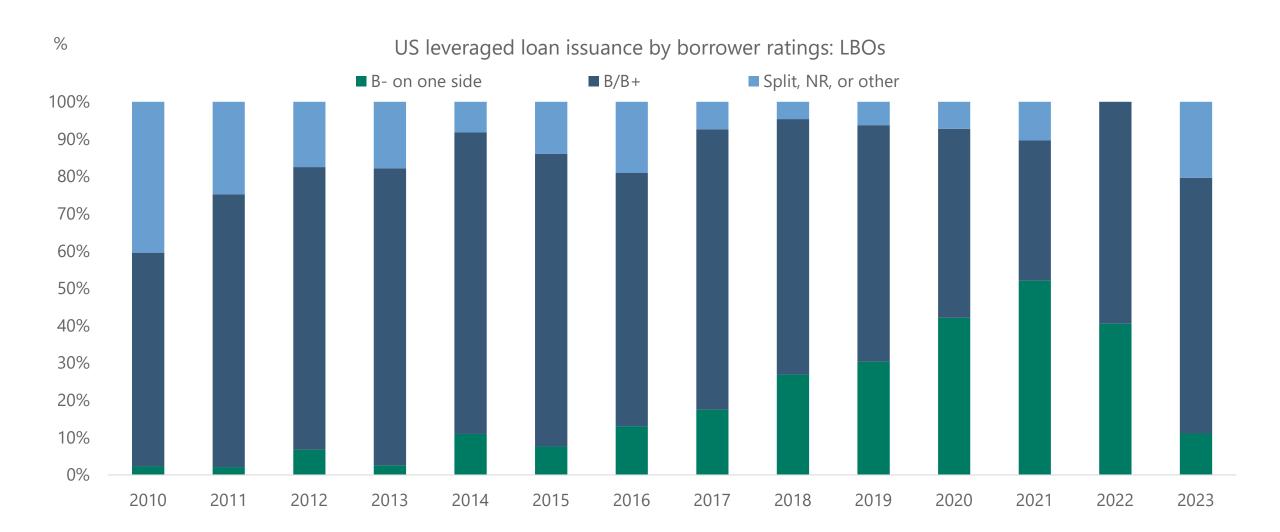
## Leverage for large corporate M&A loans has also fallen



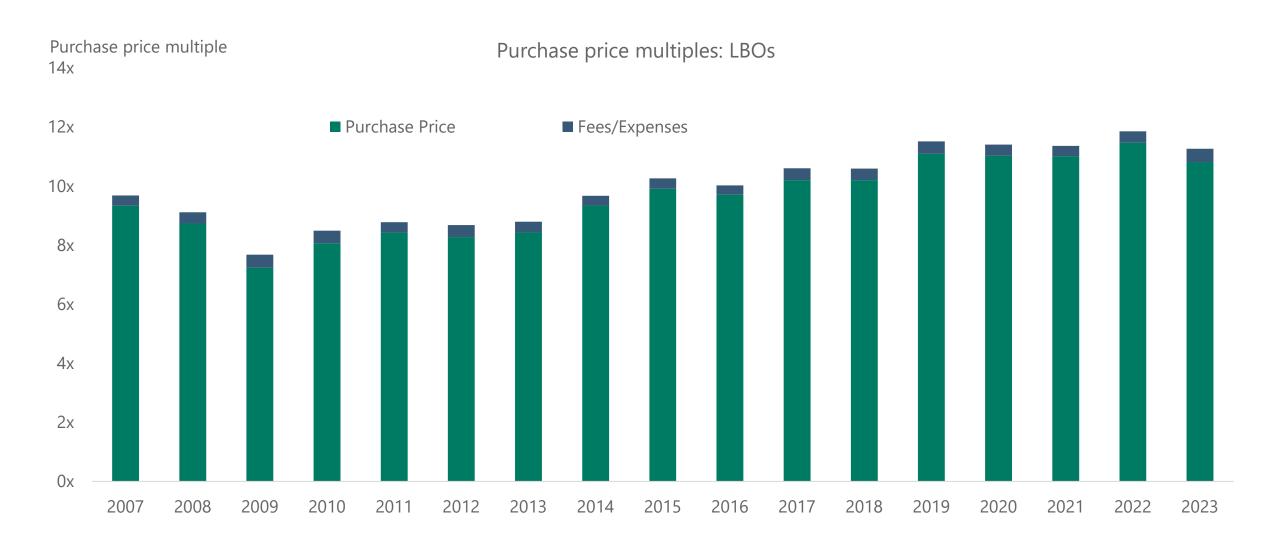
## Interest coverage ratio for large corporate M&A loans also declining



#### LBO loan issuance by borrower rating



## Purchase price multiples



## High debt costs leading to high equity contributions



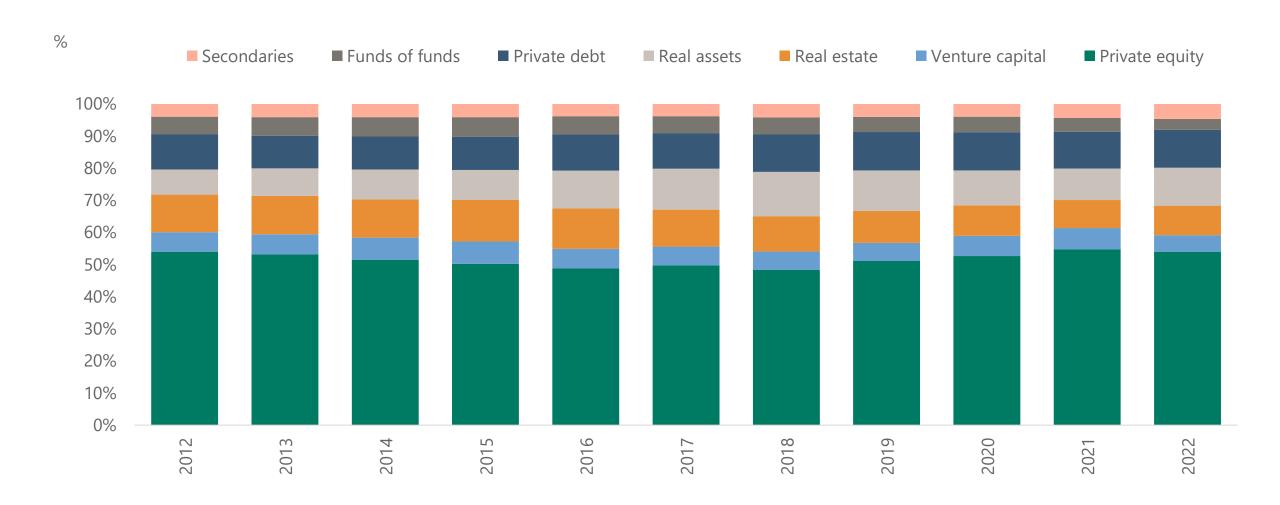
## Average yield to maturity is above 11%



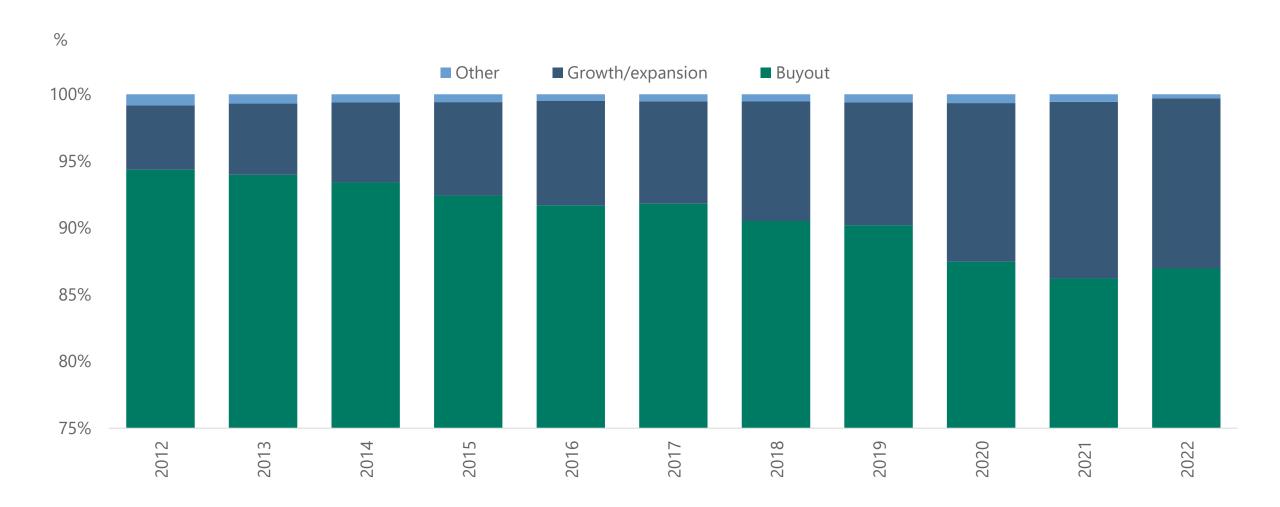
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Index weightings

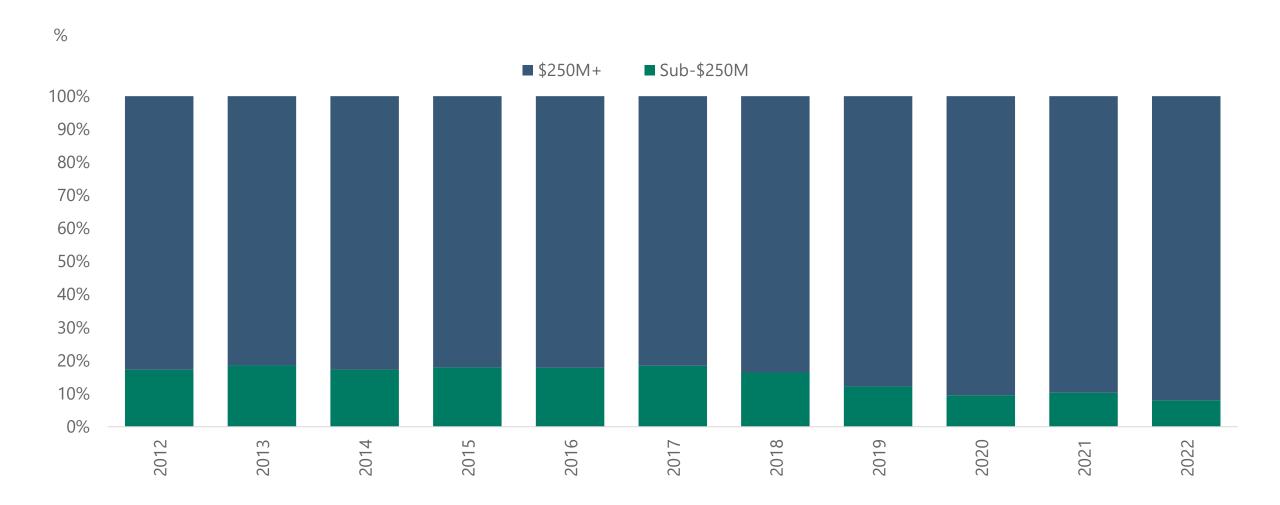
## Private capital index weightings



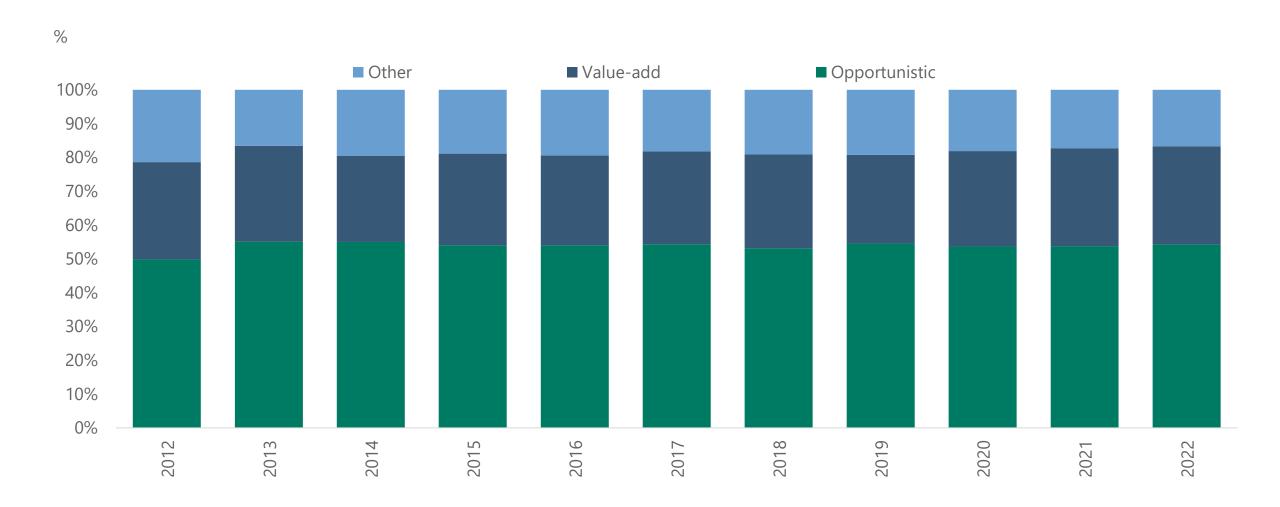
## Private equity index weightings



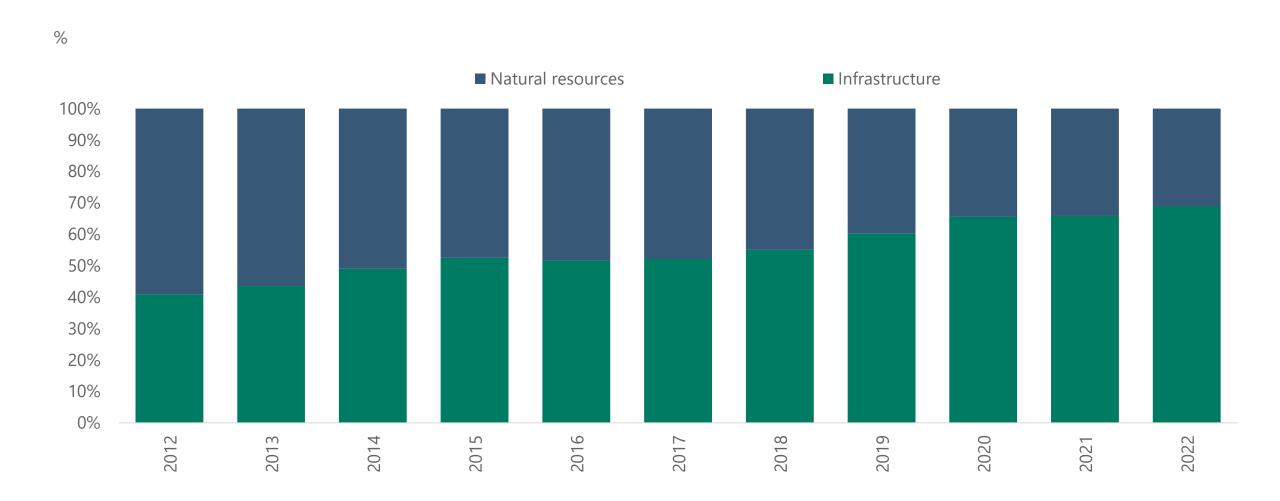
## Venture capital index weightings



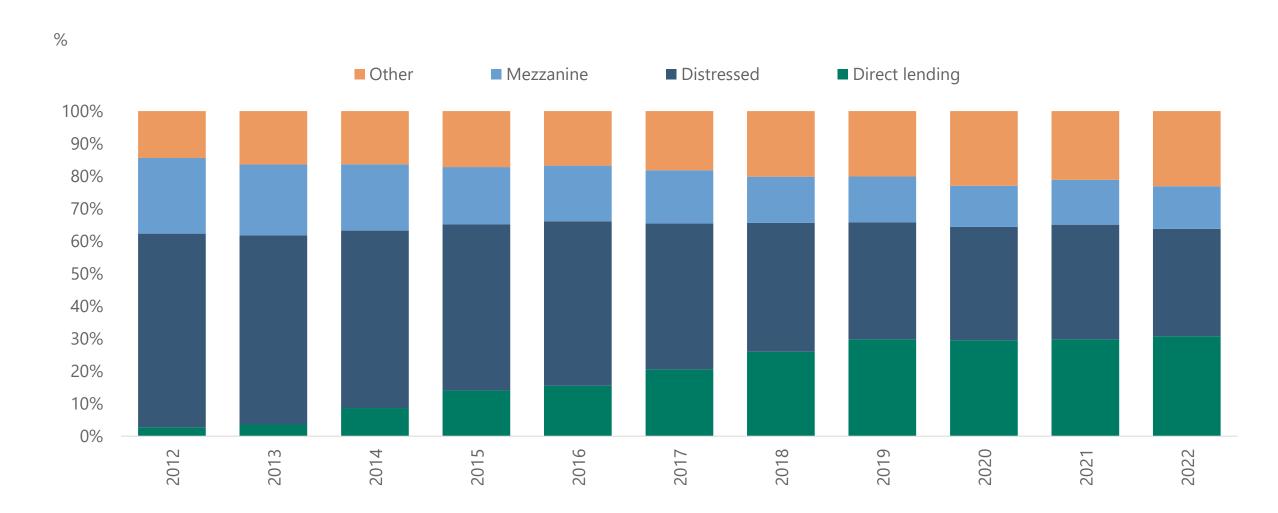
## Real estate index weightings



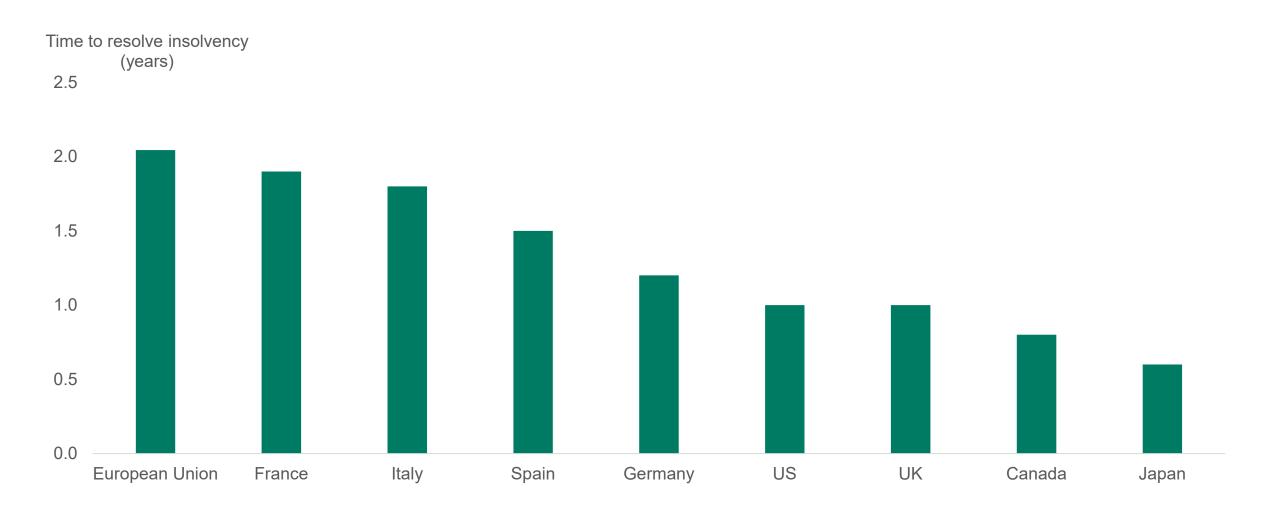
## Real assets index weightings



## Private debt index weightings



### Time to resolve insolvency in 2019

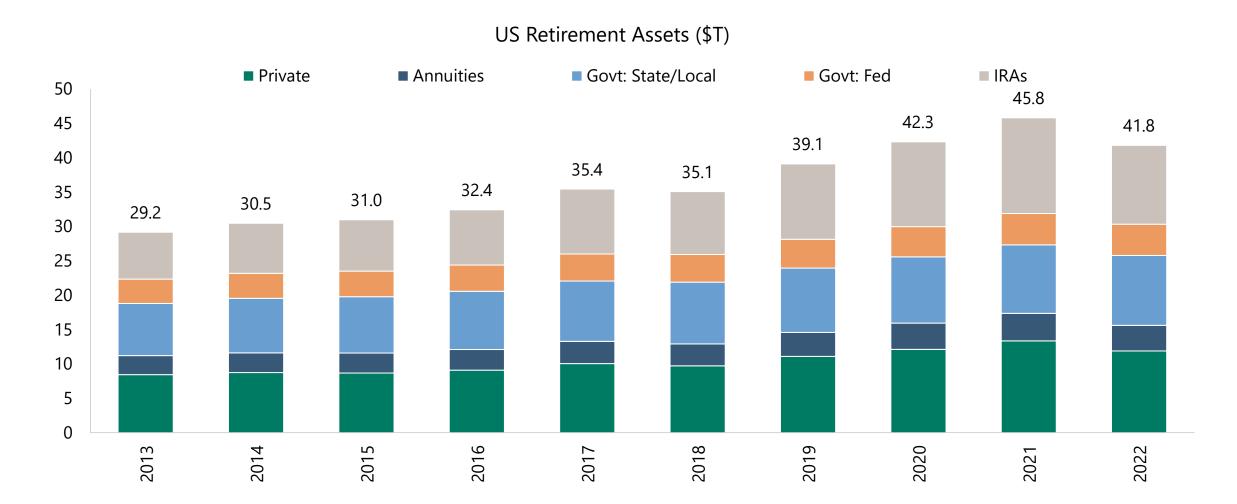


Source: World Bank, Preqin, Apollo Chief Economist

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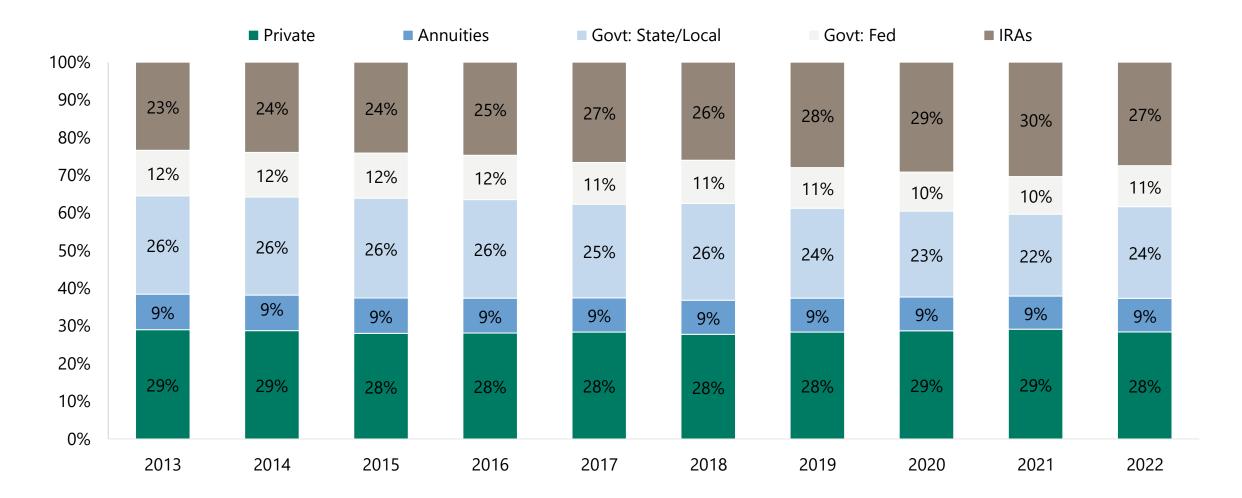
Retirement assets

### The composition of US retirement assets



Source: SIFMA, Apollo Chief Economist

#### US retirement assets: % of total

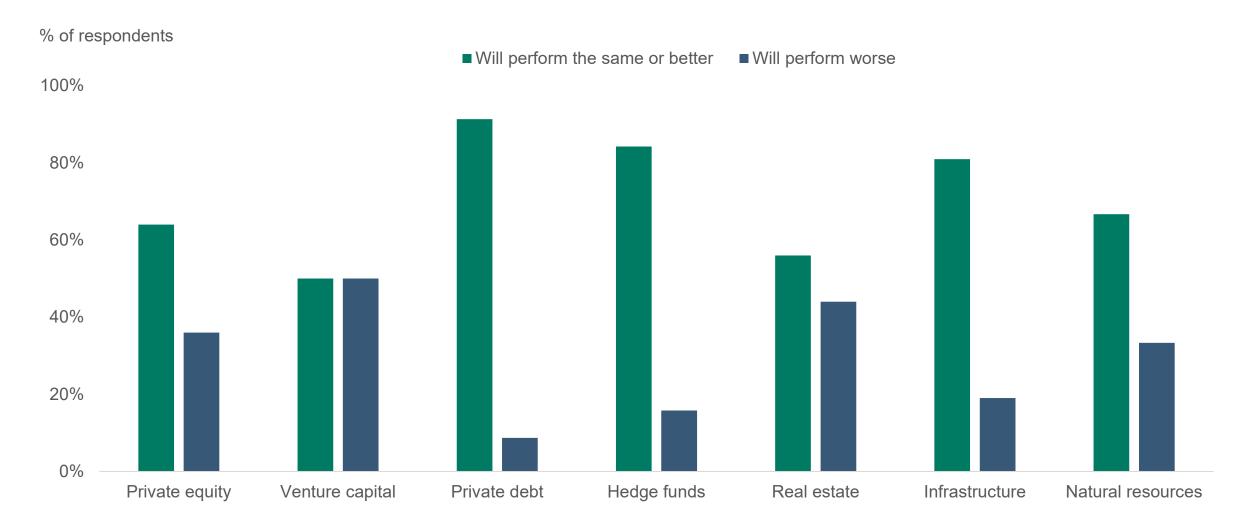


Source: SIFMA, Apollo Chief Economist

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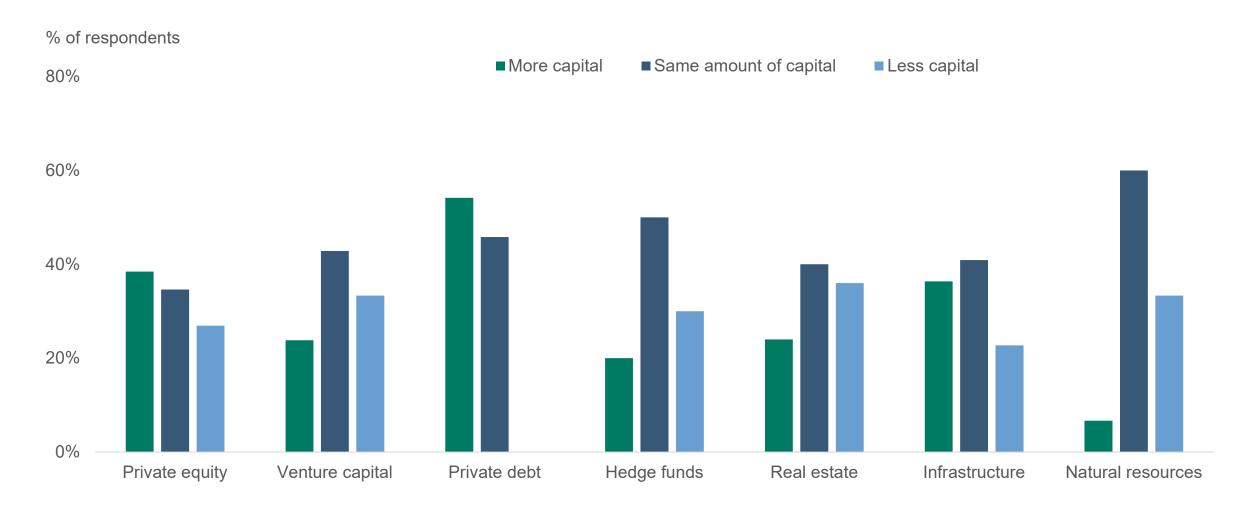
Preqin survey of North-American investors

North America-based investors were asked: 'What are your return expectations in the coming year compared with the year before?'



Source: Preqin, Apollo Chief Economist

## Investors were asked: 'What are your 12-month capital commitment plans?'

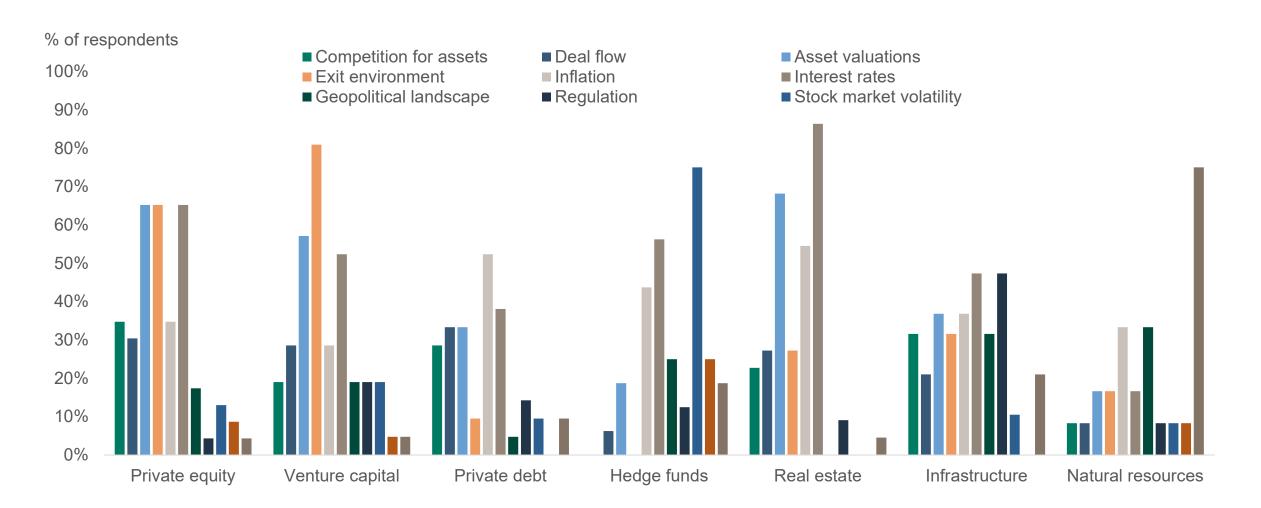


Source: Pregin, Apollo Chief Economist

### Investors were asked: 'When do you expect to make your next commitment?'



Investors were asked: 'What are the main challenges to returns in the next 12 months?'

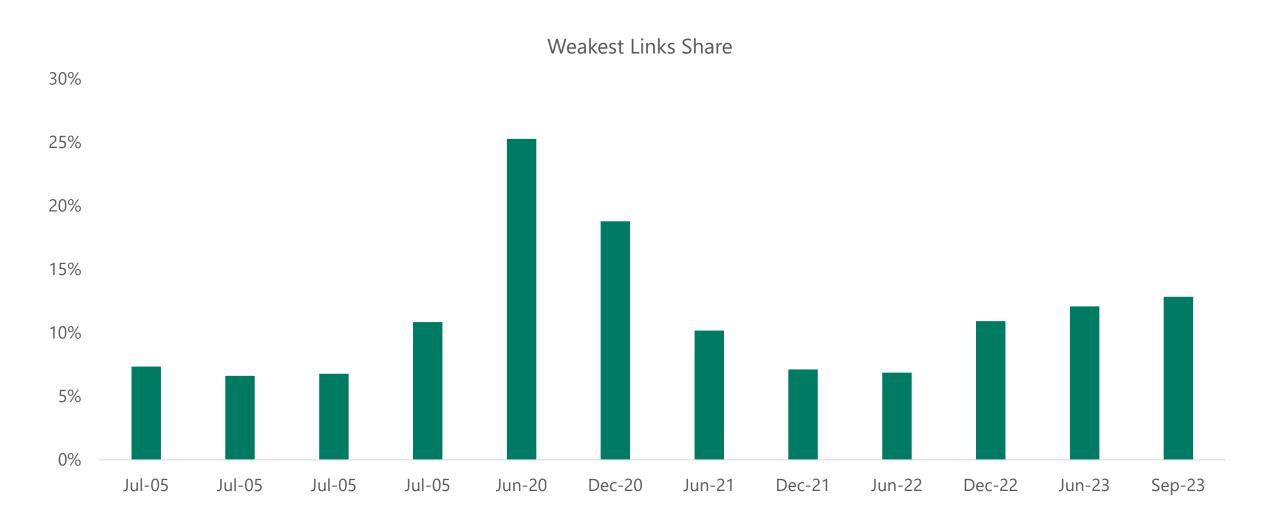


Source: Preqin, Apollo Chief Economist

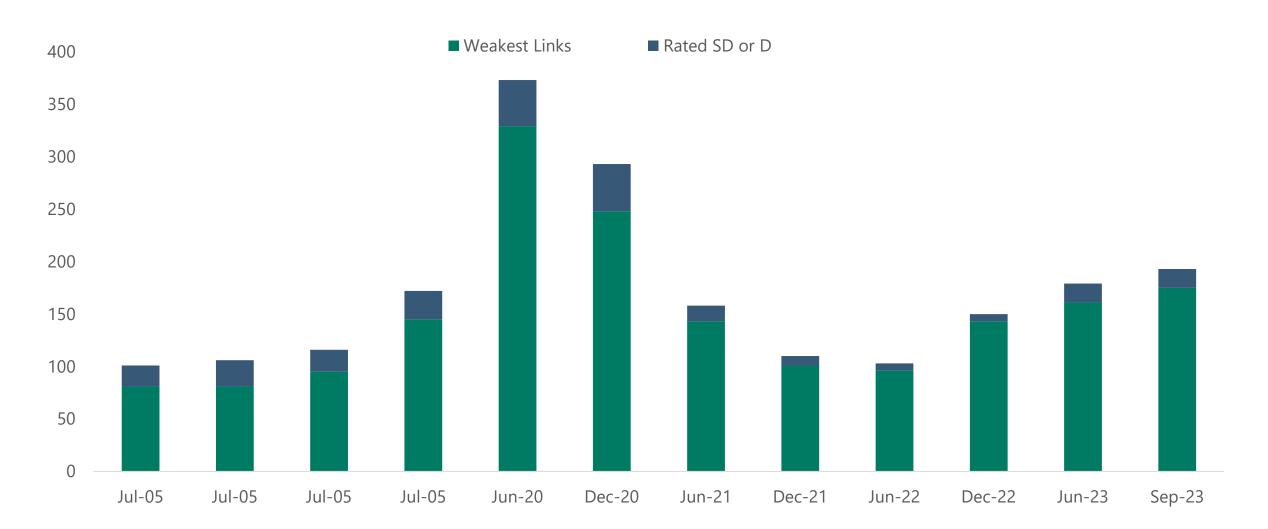
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Weakest links

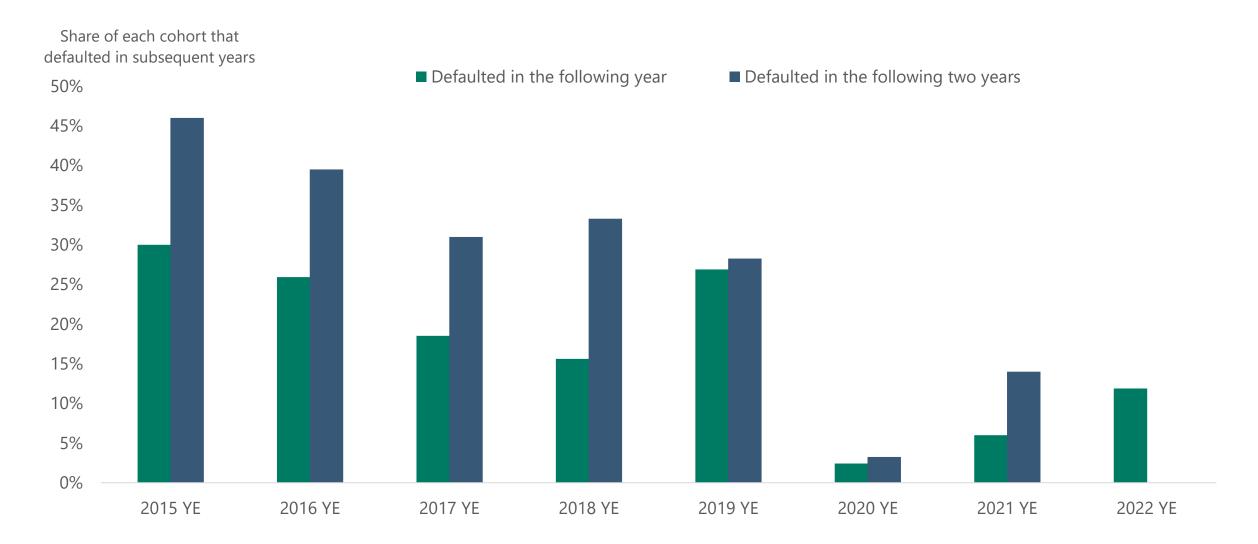
### US leveraged loan Weakest Links (issuer count)



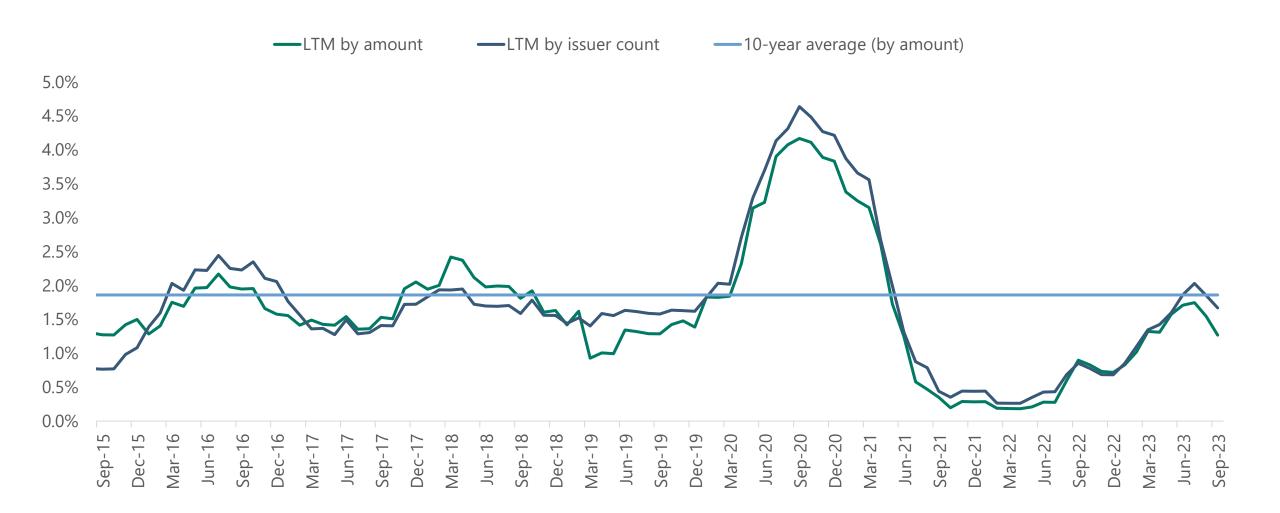
### US leveraged loan Weakest Links plus defaults/restructurings



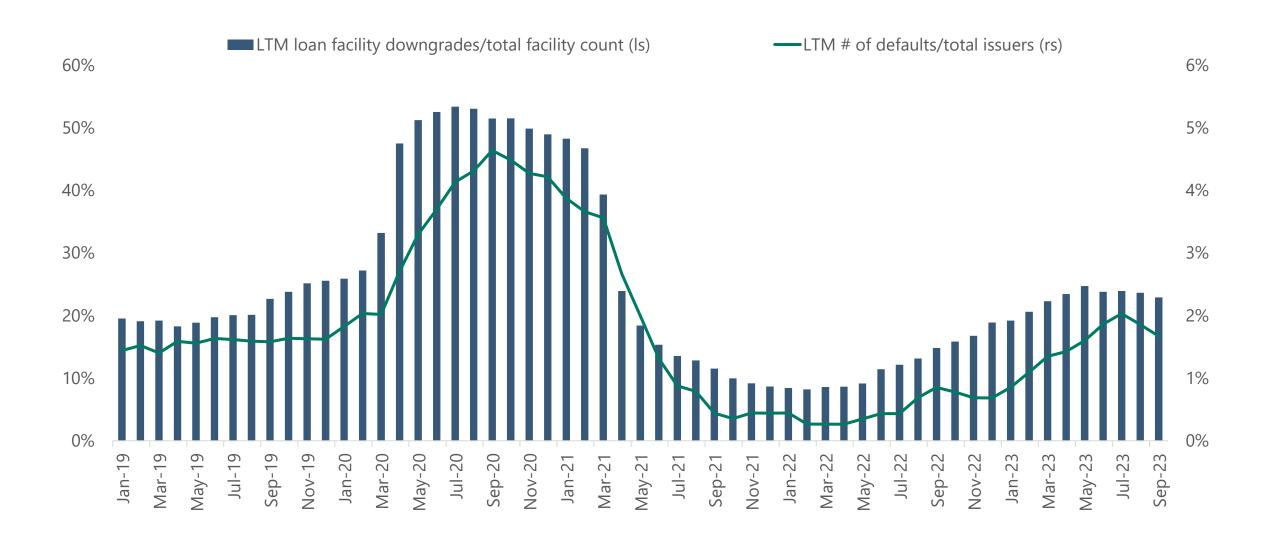
#### US loan Weakest Links default rates (issuer count)



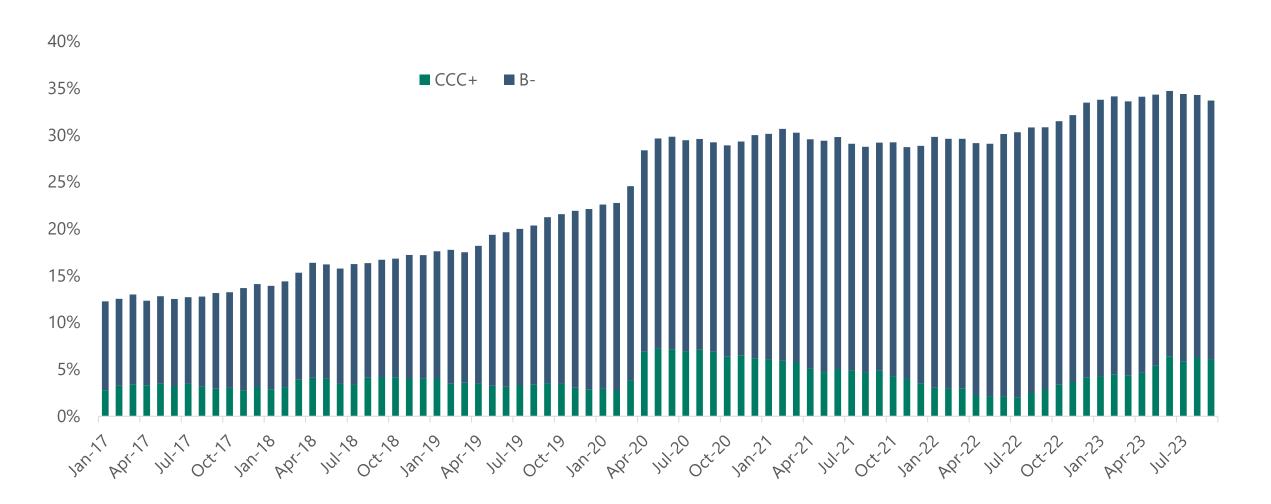
#### US leveraged loan default rate



#### LTM downgrades share and leveraged loan default rate



#### Share of loans in the LL Index by S&P CCR by par amount





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Torsten Slok joined Apollo in August 2020 as Chief Economist and he leads Apollo's macroeconomic and market analysis across the platform.

Prior to joining, Mr. Slok worked for 15 years as Chief Economist at Deutsche Bank where his team was top ranked in the annual Institutional Investor survey for a decade. Prior to joining Deutsche Bank Mr. Slok worked at the IMF in Washington, DC and at the OECD in Paris.

Mr. Slok has a Ph.D in Economics and has studied at the University of Copenhagen and Princeton University.