



Ex-U.S. Private Equity &
Venture Capital Index and
Selected Benchmark Statistics
March 31, 2016

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Disclaimer

Our goal is to provide you with the most accurate and relevant performance information possible; as a result, Cambridge Associates' research organization continually monitors the constantly evolving private investments space and its fund managers. When we discern material changes in the structure of an asset class and/or a fund's investment strategy, it is in the interest of all users of our benchmark statistics that we implement the appropriate classification realignments.

In addition, Cambridge Associates is always working to grow our private investments performance database and ensure that our benchmarks are as representative as possible of investors' institutional-quality opportunity set. As a result we continually add funds to the database (both newly-raised funds and backfill funds) and occasionally we must remove funds that cease reporting. Our private investments performance database is dynamic and will reflect both classification adjustments and changes to the underlying pool of contributing funds. As a result, you may notice quarter to quarter changes in the results of some historical benchmark return analyses.

Overview

Cambridge Associates' Private Investments Database is one of the most robust collections of institutional quality private fund performance. It contains the historical performance records of over 1,800 fund managers and their over 6,300 funds. In addition, we capture the performance information (gross) of over 72,000 investments underlying our venture capital, growth equity, buyout, mezzanine and private equity energy funds. This is one of the largest collections of portfolio-level performance information in the world and represents the investments of approximately 80% of these funds on a count basis and 88% on a total commitment basis. This fund and investment-level performance information is drawn from the quarterly and audited annual financial statements of the fund managers and each manager's reported performance numbers are independently recreated from the financial statements and verified by Cambridge Associates.

Institutional Quality Data

Cambridge Associates strives to include only institutional quality funds in our benchmarks. "Institutional quality" funds, in our definition, tend to meet the following criteria: closed-end funds, commingled funds that invest 3rd party capital (we exclude firms that invest off of their balance sheet, such as a bank's principal investing group or a corporate's venture capital arm), and fund vehicles. This institutional quality screen seeks to provide investors with performance data consistent with their investible opportunity set.

Sources of Benchmark Data

Our benchmark database utilizes the quarterly unaudited and annual audited fund financial statements produced by the fund managers (GPs) for their Limited Partners (LPs). These documents are provided to Cambridge Associates by the fund managers themselves. Unlike other data providers, Cambridge Associates does not use Freedom of Information Act (FOIA) requests, regulatory filings, manager surveys, or press "scrapings" to obtain information. Our goal is to have a complete historical record of the quarterly cash flows and net asset values for all funds in the benchmarks. We use a number of paths to encourage fund managers to submit their performance data to our database: our clients for whom we provide private investment performance reporting, our research organization's regular meetings with thousands of managers, our special projects designed to enhance existing benchmarks or launch new ones, our exclusive relationships with over ten globally-diverse fund manager associations, and finally, our exclusive relationships with Thomson Reuters and the Institutional Limited Partners Association (ILPA). By leveraging these varied sources and proprietary relationships, Cambridge Associates has constructed a rich and diversified benchmark data set.

Vintage Year Definition

Vintage year is defined as the legal inception date as noted in a fund's financial statement. This date can usually be found in the first note to the audited financial statements and is prior to the first close or capital call.

Timing of Final Benchmarks and Data Evolution

The Cambridge Associates' benchmarks are reported on a one-quarter lag from the end of the performance quarter due to the reporting time frame of private investments fund managers.

Published Data: When the vast majority of a benchmark group's (organized by asset class, e.g. Venture Capital or Real Estate) performance information is updated for a performance quarter, that benchmark is considered final and the data is "published" via the quarterly benchmark reports.

Changes to Data: After a benchmark group is published, any updates to historical data for these funds, which can include adding a fund and its performance history to the database ("backfills") and/or updating past information for an existing fund due to late-arriving, updated, or refined information, would be reflected when that group is published for the next performance quarter.

In addition, Cambridge Associates may change the classification of certain funds; this often driven by the evolution of private investments and the resulting need to introduce new benchmarks or refine our classification scheme. For example, as growth equity emerged as an asset class we reclassified certain venture capital and buyout funds accordingly.

Survivorship Bias: In order to track the performance of a fund in our benchmarks, we require the complete set of financial statements from the fund's inception to the most current reporting date. When an active fund stops providing financial statements, we reach out to the manager and make several attempts to encourage them to continue to submit their data. We may, during this communication period, roll forward the fund's last reported quarter's net asset value (NAV) for several quarters. When we are convinced that the manager will not resume reporting to us, the fund's entire performance history is removed from the database.

When fund managers stop reporting before their fund's return history is complete, an element of "survivorship bias" may be introduced to a performance database, which could skew the reported returns upwards if the funds dropping out had poorer returns than those funds that remained. Survivorship bias can affect all investment manager databases, including those for public stock managers and hedge funds. Compared to public stocks and hedge funds, however, the illiquid nature of private investments can actually help limit this survivorship effect. Whereas an underperforming stock manager may simply close up shop or drop out of databases as clients liquidate their positions and fire the manager, private investment partnerships owning illiquid assets continue to exist and require reporting to the limited partners, even if the original manager ceases to exist.

Over the last six years the number of fund managers that stopped reporting to Cambridge Associates represented an average of 0.8% (per year) of the total number of funds in the database during the respective year, and an average of 0.6% (per year) as a percentage of total NAV in the database during that respective year. During that same period the overall number of funds in our database increased by an average of 8% (per year). The performance of the small number of funds that have stopped reporting has been spread amongst all quartiles and has not been concentrated consistently in the poorer performing quartiles.



Ex-U.S. Developed Markets & Emerging Markets Private Equity & Venture Capital Index and Selected Benchmark Statistics

Data as of
March 31, 2016

Note on Currency:

The Ex-U.S. benchmarks are calculated in U.S. Dollars. All funds denominated in other currencies are converted to U.S. Dollars by using the average quarterly exchange rate for cash flows and ending quarterly exchange rate for net asset value as provided by WM/Reuters and Global Financial Data. Approximately 49% percent of the number of funds and 39% of commitments in our sample are denominated in U.S. Dollars, 28% number of funds and 52% of commitments in Euros, 9% number of funds and 5% of commitments in U.K. Sterling and 6% of funds and 2% of commitments in Australia Dollars. However, our Developed Europe sample is approximately 63% of funds and 84% of commitments in Euros. Since currency exchange rates have an impact on returns, we have calculated the Developed Europe benchmarks in U.S. Dollars as well as Euros. Approximately 84% of funds and 94% of commitments of the Australia benchmarks are denominated in Australia Dollars. All Australia benchmarks have been calculated in Australia Dollars.

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Ex-U.S. Developed Markets Private Equity & Venture Capital:
Fund Index Analysis





Ex-U.S. Developed Markets & Emerging Markets Private Equity & Venture Capital Index and Selected Benchmark Statistics

Data as of
March 31, 2016

Ex-U.S. Developed Markets Private Equity & Venture Capital: Index Summary: Horizon Pooled Return
Net to Limited Partners

Index	1-Quarter	1-Year	3-Year	5-Year	10-Year	15-Year	20-Year	25-Year
Ex-U.S. Developed Markets Private Equity & Venture Capital Index¹	4.48	14.25	10.73	8.34	9.90	12.77	13.30	13.21
Europe Developed Private Equity & Venture Capital Index (US\$)¹	4.84	18.11	11.67	8.87	10.63	13.97	14.56	14.41
Europe Developed Private Equity & Venture Capital Index (€)¹	-0.02	11.38	15.99	13.78	11.57	12.31	14.33	14.16
Asia/Pacific Developed Private Equity & Venture Capital Index¹	4.49	9.40	9.89	8.93	9.57	11.19	11.47	---
Barclays Capital Government/Credit Bond Index	3.47	1.75	2.42	4.04	4.93	5.03	5.62	6.23
Dow Jones Industrial Average Index	2.20	2.08	9.29	10.27	7.54	6.55	8.38	10.08
Dow Jones U.S. Small Cap Index	1.50	-9.52	7.25	8.21	6.54	9.08	9.25	---
Dow Jones U.S. TopCap Index	1.06	0.86	11.58	11.37	7.14	6.23	8.00	---
MSCI Emerging Markets Index	5.75	-11.70	-4.15	-3.80	3.34	9.69	5.43	7.76
MSCI Europe Index (US\$)	-2.51	-8.44	2.71	2.07	2.05	4.46	6.00	7.06
MSCI Europe Index (€)	-7.06	-13.71	6.88	6.64	2.67	2.71	6.71	7.52
MSCI Pacific Index	-3.79	-7.95	1.28	2.81	1.32	4.11	1.44	2.32
MSCI World Ex-U.S. Index	-1.95	-8.44	1.69	1.62	1.80	4.49	4.30	5.09
MSCI World Index	-0.35	-3.45	6.82	6.51	4.27	4.97	5.77	6.71
Nasdaq Composite Index*	-2.75	-0.63	14.23	11.86	7.61	6.70	7.72	9.69
Russell 1000® Index	1.17	0.50	11.52	11.35	7.06	6.28	8.11	9.47
Russell 2000® Index	-1.52	-9.76	6.84	7.20	5.26	7.65	7.68	9.29
S&P 500 Index	1.35	1.78	11.82	11.58	7.01	5.99	7.98	9.28

The index is a horizon calculation based on data compiled from 805 Ex-U.S. developed markets private equity (buyout, growth equity, private equity energy and mezzanine funds), and venture capital funds (includes funds investing primarily in in Asia/Pacific–Developed, Europe–Developed, Middle East–Developed and Canada), including fully liquidated partnerships, formed between 1986 and 2015. The Europe–Developed Index consists of 505 funds and the Asia/Pacific–Developed Index consists of 111 funds.

¹ Private indices are pooled horizon internal rate of return (IRR) calculations, net of fees, expenses, and carried interest. The timing and magnitude of fund cash flows are integral to the IRR performance calculation. Public indices are average annual compounded return (AACR) calculations which are time weighted measures over the specified time horizon, and are shown for reference and directional purposes only. Due to the fundamental differences between the two calculations, direct comparison of IRRs to AACRs is not recommended. For a more accurate means of comparing private investment performance relative to public alternatives, see the analyses in this document using CA Modified Public Market Equivalent (mPME). See Methodology section for more detail.

Sources: Barclays, Dow Jones Indexes, Frank Russell Company, MSCI Inc., Standard & Poor's and Thomson Reuters Datastream. *Capital change only.

Notes: Total returns for MSCI Emerging Markets indices are gross of dividend taxes. Total returns for MSCI Developed Markets indices are net of dividend taxes.

Ex-U.S. Developed Markets & Emerging Markets Private Equity & Venture Capital Index and Selected Benchmark Statistics

Data as of
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Ex-U.S. Developed Markets Private Equity & Venture Capital: Index Summary: Horizon Pooled Return Compared to CA Modified Public Market Equivalent (mPME) Net to Limited Partners

CA Index	1-Year	3-Year	5-Year	10-Year	15-Year	20-Year	25-Year
Ex-U.S. Developed Markets Private Equity & Venture Capital Index¹	14.25	10.73	8.34	9.90	12.77	13.30	13.21
mPME Analysis ²							
MSCI EAFE Index	-8.30	2.92	2.76	2.41	4.21	3.91	4.00
Value-Add (bps)	2,256	781	558	749	856	939	921
MSCI Europe Index	-8.46	3.59	2.59	2.52	4.29	4.25	4.40
Value-Add (bps)	2,271	714	575	738	848	905	881
Constructed Index: Global Financial Data Emerging Markets/MSCI Emerging Markets ³	-12.06	-3.98	-3.76	3.14	8.36	7.04	7.40
Value-Add	2,632	1,471	1,210	676	441	626	581
Constructed Index: MSCI World/MSCI All Country World Index ⁴	-4.03	6.77	6.13	5.43	6.37	6.09	6.22
Value-Add	1,829	396	221	447	640	720	699

The index is a horizon calculation based on data compiled from 805 Ex-U.S. developed markets private equity (buyout, growth equity, private equity energy and mezzanine funds), and venture capital funds (includes funds investing primarily in Asia/Pacific–Developed, Europe–Developed, Middle East–Developed and Canada), including fully liquidated partnerships, formed between 1986 and 2015.

¹ Pooled horizon return, net of fees, expenses, and carried interest.

² CA Modified Public Market Equivalent (mPME) replicates private investment performance under public market conditions. The public index's shares are purchased and sold according to the private fund cash flow schedule, with distributions calculated in the same proportion as the private fund, and mPME NAV is a function of mPME cash flows and public index returns. "Value-Add" shows (in basis points) the difference between the actual private investment return and the mPME calculated return. Refer to Methodology page for details.

³ Constructed MSCI EM Index: Data from 1/1/1986 to 12/31/1987 represented by GFD Emerging Markets price return. Data from 1/1/1988 to present represented by MSCI Emerging Markets total return gross.

⁴ Constructed MSCI All Country World Index: Data from 1/1/1986 to 12/31/1987 represented by MSCI World index gross total return. Data from 1/1/1988 to present represented by MSCI ACWI gross total return.

Sources: Cambridge Associates LLC, Global Financial Data, Inc., MSCI Inc., MSCI Inc. and Thomson Reuters Datastream. MSCI data provided "as is" without any express or implied warranties.



Ex-U.S. Developed Markets & Emerging Markets Private Equity & Venture Capital Index and Selected Benchmark Statistics

Data as of
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Ex-U.S. Developed Markets Private Equity & Venture Capital: Fund Index Details: One Quarter Horizon Pooled Return Net to Limited Partners

Quarter Ending	Horizon Return	Quarter Ending	Horizon Return	Quarter Ending	Horizon Return	Quarter Ending	Horizon Return	Quarter Ending	Horizon Return
1986 Q1	---	1992 Q2	11.22	1998 Q3	3.90	2004 Q4	17.38	2011 Q1	6.27
1986 Q2	---	1992 Q3	3.56	1998 Q4	3.82	2005 Q1	0.55	2011 Q2	6.56
1986 Q3	---	1992 Q4	-15.52	1999 Q1	0.02	2005 Q2	4.33	2011 Q3	-9.24
1986 Q4	3.64	1993 Q1	1.12	1999 Q2	7.07	2005 Q3	6.69	2011 Q4	0.26
1987 Q1	8.26	1993 Q2	7.42	1999 Q3	7.47	2005 Q4	11.45	2012 Q1	7.51
1987 Q2	0.89	1993 Q3	6.64	1999 Q4	13.40	2006 Q1	8.19	2012 Q2	-1.60
1987 Q3	0.61	1993 Q4	-1.13	2000 Q1	6.47	2006 Q2	16.04	2012 Q3	3.51
1987 Q4	7.32	1994 Q1	11.14	2000 Q2	3.78	2006 Q3	3.66	2012 Q4	4.71
1988 Q1	-8.53	1994 Q2	-1.14	2000 Q3	-1.81	2006 Q4	21.35	2013 Q1	0.08
1988 Q2	-5.36	1994 Q3	3.10	2000 Q4	5.61	2007 Q1	5.05	2013 Q2	2.21
1988 Q3	-10.59	1994 Q4	5.21	2001 Q1	-7.78	2007 Q2	14.35	2013 Q3	6.91
1988 Q4	13.60	1995 Q1	7.23	2001 Q2	-1.65	2007 Q3	5.99	2013 Q4	7.52
1989 Q1	-3.86	1995 Q2	3.70	2001 Q3	1.56	2007 Q4	4.82	2014 Q1	3.46
1989 Q2	-9.10	1995 Q3	3.96	2001 Q4	-2.76	2008 Q1	4.61	2014 Q2	5.18
1989 Q3	-1.79	1995 Q4	-5.34	2002 Q1	-1.44	2008 Q2	-3.89	2014 Q3	-4.81
1989 Q4	80.63	1996 Q1	-0.49	2002 Q2	8.27	2008 Q3	-16.13	2014 Q4	0.08
1990 Q1	0.57	1996 Q2	4.56	2002 Q3	-2.12	2008 Q4	-22.59	2015 Q1	-3.13
1990 Q2	5.76	1996 Q3	0.07	2002 Q4	6.74	2009 Q1	-8.43	2015 Q2	7.66
1990 Q3	3.17	1996 Q4	20.49	2003 Q1	1.05	2009 Q2	8.54	2015 Q3	-0.45
1990 Q4	-9.48	1997 Q1	-1.93	2003 Q2	8.08	2009 Q3	8.58	2015 Q4	2.00
1991 Q1	-9.44	1997 Q2	-0.52	2003 Q3	1.49	2009 Q4	7.65	2016 Q1	4.48
1991 Q2	-3.65	1997 Q3	4.28	2003 Q4	14.03	2010 Q1	-1.86		
1991 Q3	9.31	1997 Q4	15.17	2004 Q1	0.83	2010 Q2	-3.55		
1991 Q4	12.06	1998 Q1	1.32	2004 Q2	4.88	2010 Q3	12.42		
1992 Q1	4.38	1998 Q2	12.34	2004 Q3	5.25	2010 Q4	8.88		

The index is a horizon calculation based on data compiled from 805 Ex-U.S. developed markets private equity (buyout, growth equity, private equity energy and mezzanine funds), and venture capital funds (includes funds investing primarily in Asia/Pacific–Developed, Europe–Developed, Middle East–Developed and Canada), including fully liquidated partnerships, formed between 1986 and 2015. All returns are net of fees, expenses, and carried interest. Historical quarterly returns were updated this quarter due to change in composition of the benchmark.



Ex-U.S. Developed Markets & Emerging Markets Private Equity & Venture Capital Index and Selected Benchmark Statistics

Data as of
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Ex-U.S. Developed Markets Private Equity & Venture Capital: Fund Index Details: Horizon Pooled Return
Net to Limited Partners

Multi-Year Returns			
Years	Horizon Return (%)	Years	Horizon Return (%)
1 Year	14.25	16 Years	12.16
2 Years	4.87	17 Years	12.88
3 Years	10.73	18 Years	13.02
4 Years	9.57	19 Years	13.15
5 Years	8.34	20 Years	13.30
6 Years	11.33	21 Years	13.12
7 Years	13.08	22 Years	13.15
8 Years	4.55	23 Years	13.29
9 Years	6.79	24 Years	13.13
10 Years	9.90	25 Years	13.21
11 Years	11.53	26 Years	12.98
12 Years	12.80		
13 Years	13.65		
14 Years	13.67		
15 Years	12.77		

One Year Rolling Returns			
One Year Ended	Horizon Return (%)	One Year Ended	Horizon Return (%)
3/31/2016	14.25	3/31/2001	-1.11
3/31/2015	-2.65	3/31/2000	38.91
3/31/2014	21.44	3/31/1999	19.79
3/31/2013	6.69	3/31/1998	21.05
3/31/2012	4.17	3/31/1997	23.70
3/31/2011	25.82	3/31/1996	1.27
3/31/2010	24.14	3/31/1995	15.50
3/31/2009	-43.34	3/31/1994	25.81
3/31/2008	32.72	3/31/1993	-1.88
3/31/2007	53.56	3/31/1992	22.49
3/31/2006	33.91	3/31/1991	-14.56
3/31/2005	30.30		
3/31/2004	26.10		
3/31/2003	14.07		
3/31/2002	-4.35		

The index is a horizon calculation based on data compiled from 805 Ex-U.S. developed markets private equity (buyout, growth equity, private equity energy and mezzanine funds), and venture capital funds (includes funds investing primarily in Asia/Pacific–Developed, Europe–Developed, Middle East–Developed and Canada), including fully liquidated partnerships, formed between 1986 and 2015. All returns are net of fees, expenses, and carried interest.



Ex-U.S. Developed Markets Private Equity & Venture Capital:
Fund Since Inception Analysis





Ex-U.S. Developed Markets & Emerging Markets Private Equity & Venture Capital Index and Selected Benchmark Statistics

Data as of
March 31, 2016

Ex-U.S. Developed Markets Private Equity & Venture Capital: Since Inception IRR & Multiples by Fund Vintage Year
Net to Limited Partners

Vintage Year	Pooled Return (%)	Arithmetic Mean (%)	Median (%)	Equal-Weighted Pooled Return (%)	Upper Quartile (%)	Lower Quartile (%)	Standard Deviation (%)	DPI	RVPI	TVPI	Number of Funds
1986	---	---	---	---	---	---	---	---	---	---	1
1987	7.79	8.86	---	9.62	---	---	---	1.45	0.00	1.45	4
1988	15.45	12.64	12.15	11.94	---	---	---	1.76	0.00	1.76	7
1989	16.41	12.64	17.12	12.48	---	---	---	2.00	0.00	2.00	5
1990	15.86	15.03	14.12	15.47	24.35	6.83	10.32	1.91	0.00	1.91	11
1991	---	---	---	---	---	---	---	---	---	---	2
1992	13.10	10.75	12.75	11.03	---	---	---	1.63	0.00	1.63	7
1993	19.18	15.74	15.38	18.71	24.66	9.88	13.58	2.13	0.00	2.13	8
1994	38.53	28.48	23.86	27.27	46.86	14.01	17.12	3.00	0.00	3.00	13
1995	32.43	23.40	21.30	21.98	25.38	11.84	24.12	2.25	0.00	2.26	12
1996	22.60	16.85	11.77	14.55	20.01	6.49	24.16	1.89	0.01	1.90	14
1997	15.51	19.47	16.26	20.17	25.40	10.14	19.61	1.92	0.05	1.97	33
1998	13.24	37.33	11.93	15.91	20.64	-1.86	154.45	1.85	0.01	1.87	30
1999	15.90	12.72	7.53	11.21	22.39	-0.18	17.91	1.88	0.03	1.91	41
2000	20.43	9.19	4.99	11.54	23.45	-2.42	24.33	2.08	0.06	2.14	61
2001	25.81	12.69	9.27	12.80	28.51	-3.69	20.30	1.94	0.05	2.00	35
2002	20.96	15.11	14.07	17.11	26.24	4.56	31.12	1.87	0.10	1.97	30
2003	19.61	21.23	23.07	20.87	34.20	9.85	20.26	1.56	0.11	1.67	19
2004	13.87	18.43	9.07	19.39	24.91	2.90	24.95	1.62	0.16	1.78	30
2005	4.08	3.46	3.99	4.38	11.63	-3.58	13.08	0.95	0.28	1.23	63
2006	5.08	5.14	6.64	6.36	11.54	-1.39	11.89	0.91	0.38	1.29	67
2007	8.84	7.29	7.23	8.83	12.32	2.50	14.38	0.84	0.58	1.42	68
2008	12.60	7.09	8.17	11.44	17.65	1.36	24.53	0.84	0.71	1.55	42
2009	8.12	9.15	11.10	11.63	18.57	1.73	17.97	0.33	0.95	1.28	21
2010	10.85	8.95	10.42	14.82	17.15	-1.08	18.34	0.41	0.89	1.30	25
2011	6.16	3.36	3.42	6.47	12.97	-1.88	22.96	0.16	0.97	1.14	43
2012	12.25	8.95	11.22	10.93	15.94	-3.44	17.20	0.17	1.07	1.24	42
2013	-0.45	-0.15	-0.46	6.32	7.22	-7.83	18.78	0.03	0.97	1.00	33
2014	-10.23	-19.31	-15.68	0.17	-6.33	-28.91	30.43	0.00	0.92	0.92	30

Notes: Based on data compiled from 797 Ex-U.S. developed markets private equity (buyout, growth equity, private equity energy and mezzanine funds), and venture capital funds (Asia/Pacific-Developed, Europe-Developed, Middle East-Developed and Canada), including fully liquidated partnerships, formed between 1986 and 2014. CA research shows that most funds take at least six years to settle into their final quartile ranking, and previous to this settling they typically rank in 2-3 other quartiles; therefore fund or benchmark performance metrics from more recent vintage years may be less meaningful. Benchmarks with --- (not applicable) have an insufficient number of funds in the vintage year sample to produce a meaningful return.



Ex-U.S. Developed Markets & Emerging Markets Private Equity & Venture Capital Index and Selected Benchmark Statistics

Data as of
March 31, 2016

Ex-U.S. Developed Markets Private Equity & Venture Capital: Since Inception IRR & Multiples Compared to CA Modified Public Market Equivalent (mPME)
Net to Limited Partners

Vintage Year	Number of Funds	Pooled IRR (%) and IRR-Based Value-Add (bps)					Total Value to Paid In (TVPI)			Distributions to Paid In (DPI)					
		CA Benchmark	MSCI EAFE Index		MSCI Europe Index		CA Benchmark	MSCI EAFE Index	MSCI Europe Index	CA Benchmark	MSCI EAFE Index	MSCI Europe Index			
			IRR	mPME IRR	Value-Add	mPME IRR							Value-Add	TVPI	mPME TVPI
1986	1	---	---	---	---	---	---	---	---	---	---	---	---	---	
1987	4	7.79	4.97	282	10.72	-293	1.45	1.27	1.70	1.45	1.27	1.70	1.45	1.27	1.70
1988	7	15.45	7.79	766	14.85	60	1.76	1.31	1.72	1.76	1.31	1.72	1.76	1.31	1.72
1989	5	16.41	7.80	861	12.25	416	2.00	1.35	1.63	2.00	1.35	1.63	2.00	1.35	1.63
1990	11	15.86	8.86	700	14.21	165	1.91	1.35	1.66	1.91	1.35	1.66	1.91	1.35	1.66
1991	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1992	7	13.10	8.44	467	14.43	-132	1.63	1.34	1.66	1.63	1.34	1.66	1.63	1.34	1.66
1993	8	19.18	7.58	1,161	17.38	180	2.13	1.33	1.84	2.13	1.33	1.84	2.13	1.33	1.84
1994	13	38.53	6.21	3,233	15.05	2,348	3.00	1.16	1.40	3.00	1.16	1.40	3.00	1.16	1.40
1995	12	32.43	6.32	2,610	12.45	1,998	2.26	1.17	1.32	2.25	1.17	1.32	2.25	1.17	1.32
1996	14	22.60	5.91	1,668	8.52	1,408	1.90	1.21	1.30	1.89	1.20	1.29	1.89	1.20	1.29
1997	33	15.51	2.44	1,307	2.65	1,286	1.97	1.11	1.12	1.92	1.09	1.10	1.92	1.09	1.10
1998	30	13.24	3.60	964	3.84	940	1.87	1.18	1.19	1.85	1.17	1.19	1.85	1.17	1.19
1999	41	15.90	6.30	960	6.90	901	1.91	1.28	1.31	1.88	1.27	1.30	1.88	1.27	1.30
2000	61	20.43	10.02	1,041	10.48	995	2.14	1.40	1.42	2.08	1.37	1.39	2.08	1.37	1.39
2001	35	25.81	13.40	1,241	13.83	1,198	2.00	1.41	1.43	1.94	1.38	1.40	1.94	1.38	1.40
2002	30	20.96	8.29	1,266	8.73	1,223	1.97	1.30	1.32	1.87	1.25	1.26	1.87	1.25	1.26
2003	19	19.61	6.07	1,353	6.66	1,295	1.67	1.21	1.23	1.56	1.12	1.14	1.56	1.12	1.14
2004	30	13.87	3.15	1,072	3.36	1,050	1.78	1.14	1.15	1.62	1.06	1.07	1.62	1.06	1.07
2005	63	4.08	1.09	299	1.01	307	1.23	1.06	1.05	0.95	0.83	0.83	0.95	0.83	0.83
2006	67	5.08	2.04	304	1.92	316	1.29	1.11	1.10	0.91	0.81	0.81	0.91	0.81	0.81
2007	68	8.84	4.01	483	4.06	478	1.42	1.17	1.17	0.84	0.75	0.75	0.84	0.75	0.75
2008	42	12.60	5.55	706	5.71	689	1.55	1.21	1.22	0.84	0.70	0.71	0.84	0.70	0.71
2009	21	8.12	4.16	396	4.27	386	1.28	1.13	1.14	0.33	0.32	0.32	0.33	0.32	0.32
2010	25	10.85	3.64	721	3.56	729	1.30	1.09	1.09	0.41	0.39	0.39	0.41	0.39	0.39
2011	43	6.16	1.41	475	1.05	512	1.14	1.03	1.02	0.16	0.16	0.17	0.16	0.16	0.17
2012	42	12.25	-0.75	1,300	-1.41	1,366	1.24	0.99	0.98	0.17	0.15	0.14	0.17	0.15	0.14
2013	33	-0.45	-4.95	450	-6.20	575	1.00	0.95	0.93	0.03	0.03	0.03	0.03	0.03	0.03
2014	30	-10.23	-6.12	-411	-7.05	-318	0.92	0.95	0.95	0.00	0.00	0.00	0.00	0.00	0.00

Notes: Based on data compiled from 797 Ex-U.S. developed markets private equity (buyout, growth equity, private equity energy and mezzanine funds), and venture capital funds (includes funds investing primarily in Asia/Pacific-Developed, Europe-Developed, Middle East-Developed and Canada), including fully liquidated partnerships, formed between 1986 and 2014. Internal rates of returns are net of fees, expenses and carried interest. CA research shows that most funds take at least six years to settle into their final quartile ranking, and previous to this settling they typically rank in 2-3 other quartiles; therefore fund or benchmark performance metrics from more recent vintage years may be less meaningful. Benchmarks with --- (not applicable) have an insufficient number of funds in the vintage year sample to produce a meaningful return.

mPME Note: Refer to Methodology page for further details on Cambridge Associates Modified PME (mPME).

Sources: Cambridge Associates LLC, MSCI Inc. and Thomson Reuters Datastream.



Ex-U.S. Developed Markets & Emerging Markets Private Equity & Venture Capital Index and Selected Benchmark Statistics

Data as of
March 31, 2016

Ex-U.S. Developed Markets Private Equity & Venture Capital: Since Inception IRR & Multiples Compared to CA Modified Public Market Equivalent (mPME) Net to Limited Partners

Vintage Year	Number of Funds	Pooled IRR (%) and IRR-Based Value-Add (bps)					Total Value to Paid In (TVPI)			Distributions to Paid In (DPI)		
		CA Benchmark	Constructed Index MSCI Emerging ¹		Constructed Index MSCI All Country ²		CA Benchmark	Constructed Index MSCI Emerging ¹	Constructed Index MSCI All Country ²	CA Benchmark	Constructed Index MSCI Emerging ¹	Constructed Index MSCI All Country ²
			IRR	mPME IRR	Value-Add	mPME IRR						
1986	1	---	---	---	---	---	---	---	---	---	---	
1987	4	7.79	23.25	-1,546	8.50	-71	1.45	2.62	1.52	1.45	2.62	1.52
1988	7	15.45	13.30	215	12.28	317	1.76	1.46	1.55	1.76	1.46	1.55
1989	5	16.41	19.65	-324	10.73	568	2.00	1.92	1.52	2.00	1.92	1.52
1990	11	15.86	13.23	262	12.62	323	1.91	1.48	1.55	1.91	1.48	1.55
1991	2	---	---	---	---	---	---	---	---	---	---	---
1992	7	13.10	4.65	845	12.15	95	1.63	1.16	1.53	1.63	1.16	1.53
1993	8	19.18	0.47	1,872	13.24	595	2.13	1.02	1.62	2.13	1.02	1.62
1994	13	38.53	-2.71	4,125	11.56	2,698	3.00	0.93	1.30	3.00	0.93	1.30
1995	12	32.43	0.81	3,162	10.05	2,237	2.26	1.03	1.26	2.25	1.02	1.26
1996	14	22.60	5.78	1,682	7.81	1,479	1.90	1.26	1.27	1.89	1.25	1.26
1997	33	15.51	9.19	632	2.30	1,321	1.97	1.51	1.10	1.92	1.48	1.08
1998	30	13.24	12.39	85	2.67	1,057	1.87	1.79	1.13	1.85	1.78	1.12
1999	41	15.90	15.25	65	5.20	1,070	1.91	1.86	1.23	1.88	1.84	1.22
2000	61	20.43	20.61	-18	8.48	1,195	2.14	2.01	1.35	2.08	1.97	1.31
2001	35	25.81	25.37	44	11.54	1,427	2.00	1.90	1.38	1.94	1.87	1.34
2002	30	20.96	18.21	275	8.31	1,265	1.97	1.72	1.33	1.87	1.65	1.26
2003	19	19.61	14.70	491	7.14	1,246	1.67	1.50	1.27	1.56	1.40	1.16
2004	30	13.87	8.87	499	5.22	865	1.78	1.41	1.26	1.62	1.32	1.15
2005	63	4.08	3.58	51	4.02	7	1.23	1.19	1.23	0.95	0.96	0.94
2006	67	5.08	1.98	310	5.22	-14	1.29	1.10	1.30	0.91	0.83	0.93
2007	68	8.84	0.86	798	7.35	149	1.42	1.03	1.33	0.84	0.68	0.83
2008	42	12.60	1.67	1,093	9.02	358	1.55	1.06	1.36	0.84	0.63	0.77
2009	21	8.12	-1.87	1,000	7.75	37	1.28	0.94	1.26	0.33	0.27	0.34
2010	25	10.85	-2.53	1,338	7.33	353	1.30	0.94	1.19	0.41	0.33	0.41
2011	43	6.16	-4.08	1,025	5.46	71	1.14	0.92	1.12	0.16	0.14	0.17
2012	42	12.25	-5.32	1,757	3.73	852	1.24	0.91	1.07	0.17	0.13	0.15
2013	33	-0.45	-5.95	550	0.35	-80	1.00	0.94	1.00	0.03	0.03	0.03
2014	30	-10.23	-6.01	-422	-0.85	-938	0.92	0.96	0.99	0.00	0.00	0.00

Notes: Based on data compiled from 797 Ex-U.S. developed markets private equity (buyout, growth equity, private equity energy and mezzanine funds), and venture capital funds (includes funds investing primarily in Asia/Pacific–Developed, Europe–Developed, Middle East–Developed and Canada), including fully liquidated partnerships, formed between 1986 and 2014. Internal rates of returns are net of fees, expenses and carried interest. CA research shows that most funds take at least six years to settle into their final quartile ranking, and previous to this settling they typically rank in 2-3 other quartiles; therefore fund or benchmark performance metrics from more recent vintage years may be less meaningful.

¹Constructed MSCI EM Index: Data from 1/1/1986 to 12/31/1987 represented by GFD Emerging Markets price return. Data from 1/1/1988 to present represented by MSCI Emerging Markets total return gross.

²Constructed MSCI All Country World Index: Data from 1/1/1986 to 12/31/1987 represented by MSCI World index gross total return. Data from 1/1/1988 to present represented by MSCI ACWI gross total return.

mPME Note: Refer to Methodology page for further details on Cambridge Associates Modified PME (mPME).

Sources: Cambridge Associates LLC, Global Financial Data, Inc., MSCI Inc., MSCI Inc. and Thomson Reuters Datastream. MSCI data provided "as is" without any express or implied warranties.



Ex-U.S. Developed Markets & Emerging Markets Private Equity & Venture Capital Index and Selected Benchmark Statistics

Data as of
March 31, 2016

Ex-U.S. Developed Markets Private Equity & Venture Capital: Total Value to Paid In Capital Multiple (TVPI)
Net to Limited Partners

Vintage Year	Pooled Return	Arithmetic Mean	Median	Upper Quartile	Lower Quartile	Number of Funds
1986	---	---	---	---	---	1
1987	1.45	1.56	---	---	---	4
1988	1.76	1.72	1.80	---	---	7
1989	2.00	1.97	1.73	---	---	5
1990	1.91	1.94	1.89	2.54	1.32	11
1991	---	---	---	---	---	2
1992	1.63	1.55	1.46	---	---	7
1993	2.13	2.25	1.80	2.88	1.62	8
1994	3.00	2.49	2.50	3.10	1.70	13
1995	2.26	2.01	1.79	2.00	1.59	12
1996	1.90	1.72	1.59	2.00	1.40	14
1997	1.97	1.94	1.89	2.14	1.58	33
1998	1.87	1.84	1.61	2.17	0.93	30
1999	1.91	1.74	1.37	2.18	0.99	41
2000	2.14	1.62	1.34	2.04	0.85	61
2001	2.00	1.66	1.65	2.26	0.87	35
2002	1.97	1.79	1.65	2.21	1.19	30
2003	1.67	1.84	1.78	2.28	1.35	19
2004	1.78	1.92	1.50	2.28	1.23	30
2005	1.23	1.25	1.20	1.63	0.84	63
2006	1.29	1.35	1.41	1.60	0.92	67
2007	1.42	1.39	1.35	1.61	1.13	68
2008	1.55	1.48	1.28	1.71	1.04	42
2009	1.28	1.38	1.39	1.73	1.07	21
2010	1.30	1.40	1.28	1.67	0.97	25
2011	1.14	1.11	1.07	1.35	0.95	43
2012	1.24	1.17	1.20	1.32	0.95	42
2013	1.00	1.03	0.99	1.09	0.92	33
2014	0.92	0.86	0.88	0.95	0.80	30

Notes: Based on data compiled from 797 Ex-U.S. developed markets private equity (buyout, growth equity, private equity energy and mezzanine funds), and venture capital funds (includes funds investing primarily in Asia/Pacific–Developed, Europe–Developed, Middle East–Developed and Canada), including fully liquidated partnerships, formed between 1986 and 2014. CA research shows that most funds take at least six years to settle into their final quartile ranking, and previous to this settling they typically rank in 2-3 other quartiles; therefore fund or benchmark performance metrics from more recent vintage years may be less meaningful. Benchmarks with --- (not applicable) have an insufficient number of funds in the vintage year sample to produce a meaningful return.



Ex-U.S. Developed Markets & Emerging Markets Private Equity & Venture Capital Index and Selected Benchmark Statistics

Data as of
March 31, 2016

Ex-U.S. Developed Markets Private Equity & Venture Capital: Distribution to Paid In Capital Multiple (DPI)
Net to Limited Partners

Vintage Year	Pooled Return	Arithmetic Mean	Median	Upper Quartile	Lower Quartile	Number of Funds
1986	---	---	---	---	---	1
1987	1.45	1.56	---	---	---	4
1988	1.76	1.72	1.80	---	---	7
1989	2.00	1.97	1.73	---	---	5
1990	1.91	1.94	1.89	2.54	1.32	11
1991	---	---	---	---	---	2
1992	1.63	1.55	1.46	---	---	7
1993	2.13	2.25	1.80	2.88	1.62	8
1994	3.00	2.49	2.50	3.10	1.70	13
1995	2.25	2.00	1.78	2.00	1.59	12
1996	1.89	1.71	1.59	2.00	1.39	14
1997	1.92	1.92	1.88	2.14	1.58	33
1998	1.85	1.81	1.61	2.17	0.90	30
1999	1.88	1.71	1.37	2.18	0.97	41
2000	2.08	1.55	1.21	2.03	0.71	61
2001	1.94	1.50	1.17	2.19	0.71	35
2002	1.87	1.72	1.54	2.15	1.17	30
2003	1.56	1.68	1.64	2.05	1.28	19
2004	1.62	1.73	1.34	2.23	1.01	30
2005	0.95	0.94	1.00	1.36	0.50	63
2006	0.91	0.90	0.92	1.27	0.44	67
2007	0.84	0.81	0.72	1.13	0.43	68
2008	0.84	0.82	0.80	1.11	0.29	42
2009	0.33	0.50	0.25	0.67	0.06	21
2010	0.41	0.51	0.35	0.65	0.20	25
2011	0.16	0.22	0.07	0.31	0.00	43
2012	0.17	0.14	0.08	0.17	0.00	42
2013	0.03	0.05	0.00	0.04	0.00	33
2014	0.00	0.00	0.00	0.00	0.00	30

Notes: Based on data compiled from 797 Ex-U.S. developed markets private equity (buyout, growth equity, private equity energy and mezzanine funds), and venture capital funds (includes funds investing primarily in Asia/Pacific–Developed, Europe–Developed, Middle East–Developed and Canada), including fully liquidated partnerships, formed between 1986 and 2014. CA research shows that most funds take at least six years to settle into their final quartile ranking, and previous to this settling they typically rank in 2-3 other quartiles; therefore fund or benchmark performance metrics from more recent vintage years may be less meaningful. Benchmarks with --- (not applicable) have an insufficient number of funds in the vintage year sample to produce a meaningful return.



Ex-U.S. Developed Markets & Emerging Markets Private Equity & Venture Capital Index and Selected Benchmark Statistics

Data as of
March 31, 2016

Ex-U.S. Developed Markets Private Equity & Venture Capital: Residual Value to Paid In Capital Multiple (RVPI)
Net to Limited Partners

Vintage Year	Pooled Return	Arithmetic Mean	Median	Upper Quartile	Lower Quartile	Number of Funds
1986	---	---	---	---	---	1
1987	0.00	0.00	---	---	---	4
1988	0.00	0.00	0.00	---	---	7
1989	0.00	0.00	0.00	---	---	5
1990	0.00	0.00	0.00	0.00	0.00	11
1991	---	---	---	---	---	2
1992	0.00	0.00	0.00	---	---	7
1993	0.00	0.00	0.00	0.00	0.00	8
1994	0.00	0.00	0.00	0.00	0.00	13
1995	0.00	0.01	0.00	0.00	0.00	12
1996	0.01	0.00	0.00	0.00	0.00	14
1997	0.05	0.02	0.00	0.00	0.00	33
1998	0.01	0.03	0.00	0.01	0.00	30
1999	0.03	0.03	0.00	0.01	0.00	41
2000	0.06	0.07	0.00	0.06	0.00	61
2001	0.05	0.16	0.07	0.26	0.00	35
2002	0.10	0.07	0.03	0.08	0.00	30
2003	0.11	0.16	0.14	0.25	0.01	19
2004	0.16	0.19	0.12	0.21	0.01	30
2005	0.28	0.31	0.26	0.42	0.13	63
2006	0.38	0.45	0.37	0.62	0.21	67
2007	0.58	0.58	0.58	0.79	0.34	68
2008	0.71	0.66	0.69	0.87	0.29	42
2009	0.95	0.89	0.81	1.28	0.61	21
2010	0.89	0.89	0.75	1.02	0.62	25
2011	0.97	0.88	0.90	1.05	0.74	43
2012	1.07	1.04	1.04	1.16	0.90	42
2013	0.97	0.98	0.96	1.07	0.90	33
2014	0.92	0.86	0.87	0.95	0.79	30

Notes: Based on data compiled from 797 Ex-U.S. developed markets private equity (buyout, growth equity, private equity energy and mezzanine funds), and venture capital funds (includes funds investing primarily in Asia/Pacific–Developed, Europe–Developed, Middle East–Developed and Canada), including fully liquidated partnerships, formed between 1986 and 2014. CA research shows that most funds take at least six years to settle into their final quartile ranking, and previous to this settling they typically rank in 2-3 other quartiles; therefore fund or benchmark performance metrics from more recent vintage years may be less meaningful. Benchmarks with --- (not applicable) have an insufficient number of funds in the vintage year sample to produce a meaningful return.



Emerging Markets Private Equity & Venture Capital:

Fund Index Analysis





Ex-U.S. Developed Markets & Emerging Markets Private Equity & Venture Capital Index and Selected Benchmark Statistics

Data as of
March 31, 2016

Emerging Markets Private Equity & Venture Capital: Fund Index Summary: Horizon Pooled Return
Net to Limited Partners

Index	1-Quarter	1-Year	3-Year	5-Year	10-Year	15-Year	20-Year	25-Year
Emerging Markets Private Equity & Venture Capital Index¹	0.18	5.82	11.52	8.48	10.91	9.88	9.38	9.25
Asia/Pacific Emerging Markets Private Equity & Venture Capital Index¹	-0.49	9.10	16.54	11.40	13.39	12.29	11.43	11.20
Europe Emerging Private Equity & Venture Capital Index (US\$)^{1,2}	3.49	1.31	-2.24	1.63	4.88	8.20	7.50	---
Europe Emerging Private Equity & Venture Capital Index (€)^{1,2}	-1.34	-4.53	1.37	5.86	6.66	8.11	8.19	---
Latin America & Caribbean Private Equity & Venture Capital Index¹	7.14	-8.61	-4.59	-3.13	5.53	2.52	2.73	---
Africa Private Equity & Venture Capital	0.31	-5.05	0.98	2.65	5.19	7.44	7.29	---
MSCI Emerging Markets Index	5.75	-11.70	-4.15	-3.80	3.34	9.69	5.43	7.76
MSCI Emerging Markets Asia Index	1.97	-12.30	0.24	-0.34	5.37	9.93	2.93	5.28
MSCI Emerging Markets Eastern Europe Index	14.99	-0.49	-9.41	-10.51	-3.86	9.21	4.66	---
MSCI Emerging Markets Latin America Index	19.23	-8.87	-14.53	-11.28	1.71	9.59	8.47	11.22
MSCI Europe Index (US\$)	-2.51	-8.44	2.71	2.07	2.05	4.46	6.00	7.06
MSCI Europe Index (€)	-7.06	-13.71	6.88	6.64	2.67	2.71	6.71	7.52
MSCI Pacific Index	-3.79	-7.95	1.28	2.81	1.32	4.11	1.44	2.32
MSCI World Ex-U.S. Index	-1.95	-8.44	1.69	1.62	1.80	4.49	4.30	5.09
MSCI World Index	-0.35	-3.45	6.82	6.51	4.27	4.97	5.77	6.71

The index is a horizon calculation based on data compiled from 575 emerging markets private equity (buyout, growth equity, private equity energy and mezzanine funds), and venture capital funds (includes funds investing primarily in Africa, Asia/Pacific–Emerging, Europe–Emerging, Latin America & Caribbean and Middle East–Emerging) including fully liquidated partnerships, formed between 1986 and 2015. The Asia Emerging Markets Index consists of 328 funds, the Europe Emerging Markets Index consists of 61 funds, the Latin America & Caribbean Index consists of 57 funds and the Africa Index consists of 49 funds. Please note that the Emerging Markets Index contains 80 funds that do not fall into these specific regions stated above. A Middle East index is not calculated because of insufficient sample size.

¹ Private indices are pooled horizon internal rate of return (IRR) calculations, net of fees, expenses, and carried interest. The timing and magnitude of fund cash flows are integral to the IRR performance calculation. Public indices are average annual compounded return (AACR) calculations which are time weighted measures over the specified time horizon, and are shown for reference and directional purposes only. Due to the fundamental differences between the two calculations, direct comparison of IRRs to AACRs is not recommended. For a more accurate means of comparing private investment performance relative to public alternatives, see the analyses in this document using CA Modified Public Market Equivalent (mPME). See Methodology section for more detail.

²Includes Russia

Sources: Cambridge Associates LLC, MSCI Inc. and Thomson Reuters Datastream.

Notes: Total returns for MSCI Emerging Markets indices are gross of dividend taxes. Total returns for MSCI Developed Markets indices are net of dividend taxes.



Ex-U.S. Developed Markets & Emerging Markets Private Equity & Venture Capital Index and Selected Benchmark Statistics

Data as of
March 31, 2016

Emerging Markets Private Equity & Venture Capital Index Summary: Horizon Pooled Return Compared to CA Modified Public Market Equivalent (mPME) Net to Limited Partners

CA Index	1-Year	3-Year	5-Year	10-Year	15-Year	20-Year	25-Year
Emerging Markets Private Equity & Venture Capital Index¹	5.82	11.52	8.48	10.91	9.88	9.38	9.25
mPME Analysis ²							
MSCI EAFE Index	-8.20	2.06	2.73	2.22	3.25	3.01	3.07
Value-Add (bps)	1,402	946	575	869	662	637	618
MSCI Europe Index	-8.38	2.52	2.57	2.25	3.28	3.34	3.44
Value-Add (bps)	1,420	900	591	867	660	604	581
Constructed Index: Global Financial Data Emerging Markets/MSCI Emerging Markets ³	-11.44	-4.13	-3.46	1.93	5.48	4.41	4.56
Value-Add	1,726	1,564	1,194	898	439	496	469
Constructed Index: MSCI World/MSCI All Country World Index ⁴	-3.76	6.10	6.24	5.42	5.80	5.56	5.65
Value-Add	958	542	224	549	408	382	360

The index is a horizon calculation based on data compiled from 575 emerging markets private equity (buyout, growth equity, private equity energy and mezzanine funds), and venture capital funds (includes funds investing primarily in Africa, Asia/Pacific–Emerging, Europe–Emerging, Latin America & Caribbean and Middle East–Emerging, including fully liquidated partnerships, formed between 1986 and 2015).

¹Pooled horizon return, net of fees, expenses, and carried interest.

²CA Modified Public Market Equivalent (mPME) replicates private investment performance under public market conditions. The public index's shares are purchased and sold according to the private fund cash flow schedule, with distributions calculated in the same proportion as the private fund, and mPME NAV is a function of mPME cash flows and public index returns. "Value-Add" shows (in basis points) the difference between the actual private investment return and the mPME calculated return. Refer to Methodology page for details.

³Constructed MSCI EM Index: Data from 1/1/1986 to 12/31/1987 represented by GFD Emerging Markets price return. Data from 1/1/1988 to present represented by MSCI Emerging Markets total return gross.

⁴Constructed MSCI All Country World Index: Data from 1/1/1986 to 12/31/1987 represented by MSCI World index gross total return. Data from 1/1/1988 to present represented by MSCI ACWI gross total return.

Sources: Cambridge Associates LLC, Global Financial Data, Inc., MSCI Inc., MSCI Inc. and Thomson Reuters Datastream. MSCI data provided "as is" without any express or implied warranties.

Ex-U.S. Developed Markets & Emerging Markets Private Equity & Venture Capital Index and Selected Benchmark Statistics

Data as of
March 31, 2016

Emerging Markets Private Equity & Venture Capital: Fund Index Details: One Quarter Horizon Pooled Return
Net to Limited Partners

Quarter Ending	Horizon Return	Quarter Ending	Horizon Return	Quarter Ending	Horizon Return	Quarter Ending	Horizon Return	Quarter Ending	Horizon Return
1986 Q1	---	1992 Q2	-0.15	1998 Q3	-2.91	2004 Q4	11.33	2011 Q1	2.90
1986 Q2	---	1992 Q3	-0.34	1998 Q4	3.98	2005 Q1	7.89	2011 Q2	3.10
1986 Q3	---	1992 Q4	-4.84	1999 Q1	-1.28	2005 Q2	2.60	2011 Q3	-8.29
1986 Q4	-1.32	1993 Q1	1.36	1999 Q2	3.89	2005 Q3	5.47	2011 Q4	1.15
1987 Q1	2.40	1993 Q2	1.16	1999 Q3	1.00	2005 Q4	7.83	2012 Q1	5.95
1987 Q2	0.00	1993 Q3	2.31	1999 Q4	9.09	2006 Q1	5.89	2012 Q2	-2.51
1987 Q3	5.64	1993 Q4	8.04	2000 Q1	5.03	2006 Q2	4.03	2012 Q3	2.25
1987 Q4	-6.19	1994 Q1	-0.54	2000 Q2	3.86	2006 Q3	1.62	2012 Q4	3.69
1988 Q1	2.77	1994 Q2	-0.86	2000 Q3	-1.51	2006 Q4	13.31	2013 Q1	2.60
1988 Q2	0.00	1994 Q3	2.26	2000 Q4	-5.28	2007 Q1	4.32	2013 Q2	0.02
1988 Q3	-0.55	1994 Q4	-1.94	2001 Q1	-0.48	2007 Q2	14.06	2013 Q3	4.08
1988 Q4	0.53	1995 Q1	-0.01	2001 Q2	-0.89	2007 Q3	7.53	2013 Q4	7.34
1989 Q1	7.89	1995 Q2	0.23	2001 Q3	-3.67	2007 Q4	12.80	2014 Q1	2.29
1989 Q2	-4.48	1995 Q3	0.88	2001 Q4	-12.26	2008 Q1	-4.47	2014 Q2	4.56
1989 Q3	1.02	1995 Q4	-4.66	2002 Q1	-0.71	2008 Q2	0.46	2014 Q3	1.79
1989 Q4	0.32	1996 Q1	2.18	2002 Q2	-2.34	2008 Q3	-11.65	2014 Q4	4.67
1990 Q1	1.34	1996 Q2	1.04	2002 Q3	-7.37	2008 Q4	-17.31	2015 Q1	2.84
1990 Q2	1.49	1996 Q3	2.17	2002 Q4	-7.63	2009 Q1	-1.60	2015 Q2	5.36
1990 Q3	-0.83	1996 Q4	10.88	2003 Q1	-1.90	2009 Q2	11.37	2015 Q3	-4.74
1990 Q4	1.84	1997 Q1	3.37	2003 Q2	1.59	2009 Q3	9.29	2015 Q4	5.06
1991 Q1	0.64	1997 Q2	0.74	2003 Q3	4.67	2009 Q4	9.87	2016 Q1	0.18
1991 Q2	0.72	1997 Q3	-1.40	2003 Q4	6.19	2010 Q1	3.96		
1991 Q3	-1.77	1997 Q4	-2.96	2004 Q1	5.03	2010 Q2	-0.10		
1991 Q4	2.85	1998 Q1	2.49	2004 Q2	1.61	2010 Q3	8.90		
1992 Q1	4.59	1998 Q2	-5.02	2004 Q3	3.30	2010 Q4	11.81		

The index is a horizon calculation based on data compiled from 575 emerging markets private equity (buyout, growth equity, private equity energy and mezzanine funds), and venture capital funds (includes funds investing primarily in Africa, Asia/Pacific–Emerging, Europe–Emerging, Latin America & Caribbean and Middle East–Emerging), including fully liquidated partnerships, formed between 1986 and 2015. All returns are net of fees, expenses, and carried interest. Historical quarterly returns were updated this quarter due to change in composition of the benchmark.

Ex-U.S. Developed Markets & Emerging Markets Private Equity & Venture Capital Index and Selected Benchmark Statistics


Data as of
March 31, 2016

Emerging Markets Private Equity & Venture Capital: Fund Index Details: Horizon Pooled Return
Net to Limited Partners

Multi-Year Returns			
Years	Horizon Return (%)	Years	Horizon Return (%)
1 Year	5.82	16 Years	9.41
2 Years	10.16	17 Years	9.66
3 Years	11.52	18 Years	9.42
4 Years	10.18	19 Years	9.30
5 Years	8.48	20 Years	9.38
6 Years	10.81	21 Years	9.31
7 Years	13.85	22 Years	9.28
8 Years	8.88	23 Years	9.28
9 Years	10.23	24 Years	9.25
10 Years	10.91	25 Years	9.25
11 Years	11.35	26 Years	9.24
12 Years	11.84		
13 Years	12.07		
14 Years	10.94		
15 Years	9.88		

One Year Rolling Returns			
One Year Ended	Horizon Return (%)	One Year Ended	Horizon Return (%)
3/31/2016	5.82	3/31/2001	-4.07
3/31/2015	14.52	3/31/2000	20.95
3/31/2014	14.23	3/31/1999	-4.27
3/31/2013	6.25	3/31/1998	-0.94
3/31/2012	1.38	3/31/1997	19.10
3/31/2011	25.12	3/31/1996	-1.44
3/31/2010	38.58	3/31/1995	-0.68
3/31/2009	-28.10	3/31/1994	11.27
3/31/2008	29.44	3/31/1993	-4.08
3/31/2007	25.55	3/31/1992	7.51
3/31/2006	23.38	3/31/1991	3.25
3/31/2005	25.90		
3/31/2004	18.61		
3/31/2003	-17.98		
3/31/2002	-16.90		

The index is a horizon calculation based on data compiled from 575 emerging markets private equity (buyout, growth equity, private equity energy and mezzanine funds), and venture capital funds (includes funds investing primarily in Africa, Asia/Pacific–Emerging, Europe–Emerging, Latin America & Caribbean and Middle East–Emerging), including fully liquidated partnerships, formed between 1986 and 2015. All returns are net of fees, expenses, and carried interest.



Emerging Markets Private Equity & Venture Capital:
Fund Since Inception Analysis





Ex-U.S. Developed Markets & Emerging Markets Private Equity & Venture Capital Index and Selected Benchmark Statistics

Data as of
March 31, 2016

Emerging Markets Private Equity & Venture Capital: Since Inception IRR & Multiples by Fund Vintage Year
Net to Limited Partners

Vintage Year	Pooled Return (%)	Arithmetic Mean (%)	Median (%)	Equal-Weighted Pooled Return (%)	Upper Quartile (%)	Lower Quartile (%)	Standard Deviation (%)	DPI	RVPI	TVPI	Number of Funds
1986	---	---	---	---	---	---	---	---	---	---	1
1987	---	---	---	---	---	---	---	---	---	---	1
1988	---	---	---	---	---	---	---	---	---	---	1
1989	10.39	9.73	---	11.07	---	---	---	1.67	0.00	1.67	4
1990	---	---	---	---	---	---	---	---	---	---	2
1991	---	---	---	---	---	---	---	---	---	---	2
1992	13.45	11.50	16.30	13.51	---	---	---	1.97	0.00	1.97	7
1993	3.97	4.68	0.83	7.41	---	---	---	1.19	0.00	1.19	7
1994	3.79	4.25	4.39	5.14	8.61	-0.28	4.77	1.24	0.00	1.25	14
1995	2.05	0.77	-0.70	1.69	8.64	-4.05	8.09	1.12	0.00	1.12	14
1996	7.26	5.23	6.20	8.07	12.92	-3.28	14.39	1.52	0.01	1.53	14
1997	3.36	4.17	6.70	8.20	12.34	-3.20	22.42	1.20	0.01	1.22	24
1998	14.60	11.73	15.61	16.64	20.11	-1.01	15.45	2.07	0.02	2.09	17
1999	1.62	1.44	-1.88	2.33	3.99	-6.38	14.76	1.07	0.02	1.09	21
2000	10.39	7.85	7.18	8.08	14.70	0.74	12.57	1.59	0.16	1.75	25
2001	12.73	11.51	12.17	14.55	17.21	0.07	16.90	1.64	0.17	1.81	12
2002	22.96	19.31	11.17	17.44	19.67	7.04	27.70	1.89	0.25	2.13	10
2003	14.92	14.23	14.51	18.46	20.41	10.76	16.06	1.64	0.04	1.68	12
2004	7.41	21.36	9.40	11.61	13.66	0.75	49.23	1.18	0.22	1.40	27
2005	11.10	9.64	7.61	11.87	16.83	1.93	13.85	1.35	0.38	1.73	42
2006	9.07	7.58	6.85	10.20	14.10	2.35	12.71	0.91	0.66	1.56	49
2007	8.43	6.15	6.44	9.04	11.66	0.67	10.62	0.75	0.70	1.46	61
2008	12.30	8.19	6.30	18.47	10.65	1.62	15.26	0.37	1.25	1.63	49
2009	8.74	6.13	4.27	10.73	10.34	0.02	9.96	0.23	1.08	1.30	18
2010	12.13	8.10	8.45	12.51	18.44	-2.10	13.18	0.22	1.15	1.37	32
2011	20.19	16.32	15.89	22.90	24.66	2.30	20.80	0.15	1.37	1.52	38
2012	7.91	8.79	8.33	14.17	17.00	-10.30	28.12	0.05	1.09	1.14	25
2013	16.81	8.26	6.97	15.87	28.50	-10.49	25.18	0.08	1.12	1.20	17
2014	15.82	9.29	15.08	20.42	22.90	0.00	22.80	0.02	1.13	1.15	18

Notes: Based on data compiled from 564 emerging markets private equity (buyout, growth equity, private equity energy and mezzanine funds), and venture capital funds (includes funds investing primarily in Africa, Asia/Pacific–Emerging, Europe–Emerging, Latin America & Caribbean and Middle East–Emerging), including fully liquidated partnerships, formed between 1986 and 2014. Internal rates of return are net of fees, expenses and carried interest. CA research shows that most funds take at least six years to settle into their final quartile ranking, and previous to this settling they typically rank in 2-3 other quartiles; therefore fund or benchmark performance metrics from more recent vintage years may be less meaningful. Benchmarks with -- (not applicable) have an insufficient number of funds in the vintage year sample to produce a meaningful return.



Ex-U.S. Developed Markets & Emerging Markets Private Equity & Venture Capital Index and Selected Benchmark Statistics

Data as of
March 31, 2016

Emerging Markets Private Equity & Venture Capital: Since Inception IRR & Multiples Compared to CA Modified Public Market Equivalent (mPME)
Net to Limited Partners

Vintage Year	Number of Funds	Pooled IRR (%) and IRR-Based Value-Add (bps)					Total Value to Paid In (TVPI)			Distributions to Paid In (DPI)					
		CA Benchmark	MSCI EAFE Index		MSCI Europe Index		CA Benchmark	MSCI EAFE Index	MSCI Europe Index	CA Benchmark	MSCI EAFE Index	MSCI Europe Index			
			IRR	mPME IRR	Value-Add	mPME IRR							Value-Add	TVPI	mPME TVPI
1986	1	---	---	---	---	---	---	---	---	---	---	---	---	---	
1987	1	---	---	---	---	---	---	---	---	---	---	---	---	---	
1988	1	---	---	---	---	---	---	---	---	---	---	---	---	---	
1989	4	10.39	5.56	483	11.41	-103	1.67	1.33	1.79	1.67	1.33	1.79	1.67	1.33	1.79
1990	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1991	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1992	7	13.45	7.89	556	15.77	-232	1.97	1.39	1.90	1.97	1.39	1.90	1.97	1.39	1.90
1993	7	3.97	5.41	-144	11.78	-781	1.19	1.30	1.71	1.19	1.30	1.71	1.19	1.30	1.71
1994	14	3.79	6.09	-230	13.10	-931	1.25	1.39	1.91	1.24	1.38	1.90	1.24	1.38	1.90
1995	14	2.05	3.50	-146	7.23	-519	1.12	1.19	1.41	1.12	1.19	1.41	1.12	1.19	1.41
1996	14	7.26	4.03	323	5.23	203	1.53	1.23	1.31	1.52	1.23	1.30	1.52	1.23	1.30
1997	24	3.36	4.62	-127	4.90	-154	1.22	1.30	1.32	1.20	1.28	1.30	1.20	1.28	1.30
1998	17	14.60	4.44	1,016	4.80	980	2.09	1.20	1.21	2.07	1.19	1.21	2.07	1.19	1.21
1999	21	1.62	5.92	-430	6.53	-490	1.09	1.37	1.41	1.07	1.33	1.37	1.07	1.33	1.37
2000	25	10.39	6.91	348	7.14	325	1.75	1.36	1.38	1.59	1.28	1.30	1.59	1.28	1.30
2001	12	12.73	9.09	364	9.53	321	1.81	1.45	1.48	1.64	1.37	1.39	1.64	1.37	1.39
2002	10	22.96	7.05	1,591	7.59	1,537	2.13	1.27	1.29	1.89	1.13	1.15	1.89	1.13	1.15
2003	12	14.92	4.78	1,013	5.29	963	1.68	1.21	1.23	1.64	1.17	1.19	1.64	1.17	1.19
2004	27	7.41	1.75	566	1.82	559	1.40	1.09	1.09	1.18	0.89	0.90	1.18	0.89	0.90
2005	42	11.10	0.78	1,032	0.78	1,032	1.73	1.04	1.04	1.35	0.82	0.82	1.35	0.82	0.82
2006	49	9.07	2.13	694	2.03	703	1.56	1.11	1.11	0.91	0.66	0.66	0.91	0.66	0.66
2007	61	8.43	3.20	523	3.15	528	1.46	1.15	1.15	0.75	0.63	0.63	0.75	0.63	0.63
2008	49	12.30	4.47	782	4.52	778	1.63	1.19	1.19	0.37	0.32	0.32	0.37	0.32	0.32
2009	18	8.74	3.72	502	3.75	499	1.30	1.12	1.12	0.23	0.22	0.23	0.23	0.22	0.23
2010	32	12.13	3.30	884	3.25	888	1.37	1.09	1.09	0.22	0.20	0.20	0.22	0.20	0.20
2011	38	20.19	0.85	1,934	0.35	1,983	1.52	1.02	1.01	0.15	0.11	0.11	0.15	0.11	0.11
2012	25	7.91	-2.16	1,007	-3.00	1,091	1.14	0.97	0.95	0.05	0.04	0.04	0.05	0.04	0.04
2013	17	16.81	-4.66	2,147	-5.77	2,258	1.20	0.95	0.93	0.08	0.07	0.06	0.08	0.07	0.06
2014	18	15.82	-5.74	2,157	-6.96	2,278	1.15	0.95	0.94	0.02	0.02	0.02	0.02	0.02	0.02

Notes: Based on data compiled from 564 emerging markets private equity (buyout, growth equity, private equity energy and mezzanine funds), and venture capital funds (includes funds investing primarily in Africa, Asia/Pacific–Emerging, Europe–Emerging, Latin America & Caribbean and Middle East–Emerging), including fully liquidated partnerships, formed between 1986 and 2014. Internal rates of returns are net of fees, expenses and carried interest. CA research shows that most funds take at least six years to settle into their final quartile ranking, and previous to this settling they typically rank in 2-3 other quartiles; therefore fund or benchmark performance metrics from more recent vintage years may be less meaningful. Benchmarks with --- (not applicable) have an insufficient number of funds in the vintage year sample to produce a meaningful return.

mPME Note: Refer to Methodology page for further details on Cambridge Associates Modified PME (mPME).

Sources: Cambridge Associates LLC, MSCI Inc. and Thomson Reuters Datastream.



Ex-U.S. Developed Markets & Emerging Markets Private Equity & Venture Capital Index and Selected Benchmark Statistics

Data as of
March 31, 2016

Emerging Markets Private Equity & Venture Capital: Since Inception IRR & Multiples Compared to CA Modified Public Market Equivalent (mPME)
Net to Limited Partners

Vintage Year	Number of Funds	Pooled IRR (%) and IRR-Based Value-Add (bps)					Total Value to Paid In (TVPI)			Distributions to Paid In (DPI)		
		CA Benchmark	Constructed Index MSCI Emerging ¹		Constructed Index MSCI All Country ²		CA Benchmark	Constructed Index MSCI Emerging ¹	Constructed Index MSCI All Country ²	CA Benchmark	Constructed Index MSCI Emerging ¹	Constructed Index MSCI All Country ²
			IRR	mPME IRR	Value-Add	mPME IRR						
1986	1	---	---	---	---	---	---	---	---	---	---	---
1987	1	---	---	---	---	---	---	---	---	---	---	---
1988	1	---	---	---	---	---	---	---	---	---	---	---
1989	4	10.39	19.87	-949	9.08	131	1.67	2.44	1.59	1.67	2.44	1.59
1990	2	---	---	---	---	---	---	---	---	---	---	---
1991	2	---	---	---	---	---	---	---	---	---	---	---
1992	7	13.45	0.69	1,277	12.55	91	1.97	1.03	1.68	1.97	1.03	1.68
1993	7	3.97	1.76	220	9.24	-527	1.19	1.10	1.53	1.19	1.10	1.53
1994	14	3.79	1.96	183	9.92	-613	1.25	1.14	1.65	1.24	1.13	1.65
1995	14	2.05	4.21	-216	5.42	-338	1.12	1.27	1.30	1.12	1.27	1.30
1996	14	7.26	8.68	-142	4.28	298	1.53	1.63	1.24	1.52	1.62	1.24
1997	24	3.36	11.87	-852	4.04	-68	1.22	2.02	1.26	1.20	1.99	1.23
1998	17	14.60	13.15	145	3.68	1,093	2.09	1.75	1.16	2.07	1.74	1.16
1999	21	1.62	15.07	-1,345	5.03	-341	1.09	2.23	1.32	1.07	2.16	1.27
2000	25	10.39	17.39	-700	6.27	412	1.75	2.18	1.35	1.59	2.05	1.25
2001	12	12.73	20.33	-760	8.41	432	1.81	2.23	1.44	1.64	2.11	1.34
2002	10	22.96	16.70	626	7.56	1,540	2.13	1.66	1.32	1.89	1.50	1.14
2003	12	14.92	13.25	167	6.09	883	1.68	1.59	1.28	1.64	1.55	1.24
2004	27	7.41	6.61	80	4.20	320	1.40	1.36	1.24	1.18	1.13	0.99
2005	42	11.10	4.41	670	3.58	752	1.73	1.24	1.21	1.35	1.00	0.92
2006	49	9.07	1.51	755	5.31	376	1.56	1.07	1.30	0.91	0.67	0.75
2007	61	8.43	0.88	756	6.51	192	1.46	1.04	1.34	0.75	0.59	0.70
2008	49	12.30	0.26	1,203	8.13	416	1.63	1.01	1.37	0.37	0.28	0.35
2009	18	8.74	-1.99	1,072	7.43	130	1.30	0.94	1.25	0.23	0.19	0.24
2010	32	12.13	-2.39	1,452	7.07	506	1.37	0.94	1.20	0.22	0.17	0.21
2011	38	20.19	-4.03	2,421	5.13	1,505	1.52	0.92	1.11	0.15	0.10	0.12
2012	25	7.91	-5.21	1,312	2.69	522	1.14	0.92	1.04	0.05	0.04	0.05
2013	17	16.81	-7.09	2,390	0.21	1,660	1.20	0.92	1.00	0.08	0.06	0.07
2014	18	15.82	-6.52	2,235	-0.55	1,638	1.15	0.94	0.99	0.02	0.02	0.02

Notes: Based on data compiled from 564 emerging markets private equity (buyout, growth equity, private equity energy and mezzanine funds), and venture capital funds (includes funds investing primarily in Africa, Asia/Pacific–Emerging, Europe–Emerging, Latin America & Caribbean and Middle East–Emerging), including fully liquidated partnerships, formed between 1986 and 2014. Internal rates of returns are net of fees, expenses and carried interest. CA research shows that most funds take at least six years to settle into their final quartile ranking, and previous to this settling they typically rank in 2-3 other quartiles; therefore fund or benchmark performance metrics from more recent vintage years may be less meaningful.

¹Constructed MSCI EM Index: Data from 1/1/1986 to 12/31/1987 represented by GFD Emerging Markets price return. Data from 1/1/1988 to present represented by MSCI Emerging Markets total return gross.

²Constructed MSCI All Country World Index: Data from 1/1/1986 to 12/31/1987 represented by MSCI World index gross total return. Data from 1/1/1988 to present represented by MSCI ACWI gross total return.

mPME Note: Refer to Methodology page for further details on Cambridge Associates Modified PME (mPME).

Sources: Cambridge Associates LLC, Global Financial Data, Inc., MSCI Inc., MSCI Inc. and Thomson Reuters Datastream. MSCI data provided "as is" without any express or implied warranties.



Ex-U.S. Developed Markets & Emerging Markets Private Equity & Venture Capital Index and Selected Benchmark Statistics

Data as of
March 31, 2016

Emerging Markets Private Equity & Venture Capital: Total Value to Paid In Capital Multiple (TVPI)
Net to Limited Partners

Vintage Year	Pooled Return	Arithmetic Mean	Median	Upper Quartile	Lower Quartile	Number of Funds
1986	---	---	---	---	---	1
1987	---	---	---	---	---	1
1988	---	---	---	---	---	1
1989	1.67	1.95	---	---	---	4
1990	---	---	---	---	---	2
1991	---	---	---	---	---	2
1992	1.97	1.89	2.40	---	---	7
1993	1.19	1.39	1.02	---	---	7
1994	1.25	1.42	1.31	1.52	0.99	14
1995	1.12	1.06	0.96	1.23	0.83	14
1996	1.53	1.60	1.33	1.93	0.78	14
1997	1.22	1.56	1.36	1.83	0.75	24
1998	2.09	2.50	1.72	2.29	0.95	17
1999	1.09	1.14	0.92	1.13	0.61	21
2000	1.75	1.59	1.60	2.06	1.06	25
2001	1.81	1.87	1.65	2.47	1.09	12
2002	2.13	2.12	1.79	2.20	1.50	10
2003	1.68	2.14	1.87	2.28	1.57	12
2004	1.40	1.59	1.45	1.88	1.04	27
2005	1.73	1.83	1.48	2.11	1.14	42
2006	1.56	1.69	1.44	1.92	1.12	49
2007	1.46	1.54	1.33	1.69	1.04	61
2008	1.63	2.09	1.27	1.59	1.06	49
2009	1.30	1.38	1.12	1.43	1.01	18
2010	1.37	1.65	1.26	1.58	0.93	32
2011	1.52	1.64	1.33	1.82	1.06	38
2012	1.14	1.22	1.13	1.42	0.84	25
2013	1.20	1.15	1.05	1.43	0.91	17
2014	1.15	1.12	1.14	1.24	1.00	18

Notes: Based on data compiled from 564 emerging markets private equity (buyout, growth equity, private equity energy and mezzanine funds), and venture capital funds (includes funds investing primarily in Africa, Asia/Pacific–Emerging, Europe–Emerging, Latin America & Caribbean and Middle East–Emerging), including fully liquidated partnerships, formed between 1986 and 2014. Internal rates of return are net of fees, expenses and carried interest. CA research shows that most funds take at least six years to settle into their final quartile ranking, and previous to this settling they typically rank in 2-3 other quartiles; therefore fund or benchmark performance metrics from more recent vintage years may be less meaningful. Benchmarks with -- (not applicable) have an insufficient number of funds in the vintage year sample to produce a meaningful return.



Ex-U.S. Developed Markets & Emerging Markets Private Equity & Venture Capital Index and Selected Benchmark Statistics

Data as of
March 31, 2016

Emerging Markets Private Equity & Venture Capital: Distribution to Paid In Capital Multiple (DPI)
Net to Limited Partners

Vintage Year	Pooled Return	Arithmetic Mean	Median	Upper Quartile	Lower Quartile	Number of Funds
1986	---	---	---	---	---	1
1987	---	---	---	---	---	1
1988	---	---	---	---	---	1
1989	1.67	1.95	---	---	---	4
1990	---	---	---	---	---	2
1991	---	---	---	---	---	2
1992	1.97	1.89	2.40	---	---	7
1993	1.19	1.39	1.02	---	---	7
1994	1.24	1.41	1.31	1.52	0.99	14
1995	1.12	1.06	0.96	1.23	0.83	14
1996	1.52	1.60	1.33	1.90	0.78	14
1997	1.20	1.51	1.36	1.83	0.74	24
1998	2.07	2.47	1.72	2.29	0.95	17
1999	1.07	1.10	0.92	1.13	0.54	21
2000	1.59	1.42	1.22	1.97	0.74	25
2001	1.64	1.75	1.63	2.46	0.69	12
2002	1.89	1.85	1.39	2.13	0.97	10
2003	1.64	2.05	1.79	2.11	1.57	12
2004	1.18	1.32	1.19	1.49	0.86	27
2005	1.35	1.27	1.00	1.65	0.68	42
2006	0.91	1.00	0.77	1.40	0.28	49
2007	0.75	0.57	0.48	0.84	0.24	61
2008	0.37	0.40	0.30	0.52	0.12	49
2009	0.23	0.20	0.21	0.32	0.05	18
2010	0.22	0.18	0.09	0.23	0.01	32
2011	0.15	0.16	0.06	0.30	0.00	38
2012	0.05	0.13	0.01	0.05	0.00	25
2013	0.08	0.04	0.00	0.07	0.00	17
2014	0.02	0.02	0.00	0.00	0.00	18

Notes: Based on data compiled from 564 emerging markets private equity (buyout, growth equity, private equity energy and mezzanine funds), and venture capital funds (includes funds investing primarily in Africa, Asia/Pacific–Emerging, Europe–Emerging, Latin America & Caribbean and Middle East–Emerging), including fully liquidated partnerships, formed between 1986 and 2014. Internal rates of return are net of fees, expenses and carried interest. CA research shows that most funds take at least six years to settle into their final quartile ranking, and previous to this settling they typically rank in 2-3 other quartiles; therefore fund or benchmark performance metrics from more recent vintage years may be less meaningful. Benchmarks with -- (not applicable) have an insufficient number of funds in the vintage year sample to produce a meaningful return.



Ex-U.S. Developed Markets & Emerging Markets Private Equity & Venture Capital Index and Selected Benchmark Statistics

Data as of
March 31, 2016

Emerging Markets Private Equity & Venture Capital: Residual Value to Paid In Capital Multiple (RVPI)
Net to Limited Partners

Vintage Year	Pooled Return	Arithmetic Mean	Median	Upper Quartile	Lower Quartile	Number of Funds
1986	---	---	---	---	---	1
1987	---	---	---	---	---	1
1988	---	---	---	---	---	1
1989	0.00	0.00	---	---	---	4
1990	---	---	---	---	---	2
1991	---	---	---	---	---	2
1992	0.00	0.00	0.00	---	---	7
1993	0.00	0.00	0.00	---	---	7
1994	0.00	0.01	0.00	0.00	0.00	14
1995	0.00	0.00	0.00	0.00	0.00	14
1996	0.01	0.01	0.00	0.00	0.00	14
1997	0.01	0.05	0.00	0.01	0.00	24
1998	0.02	0.03	0.00	0.00	0.00	17
1999	0.02	0.03	0.00	0.02	0.00	21
2000	0.16	0.17	0.00	0.20	0.00	25
2001	0.17	0.11	0.00	0.05	0.00	12
2002	0.25	0.26	0.21	0.47	0.00	10
2003	0.04	0.09	0.00	0.01	0.00	12
2004	0.22	0.27	0.06	0.45	0.03	27
2005	0.38	0.57	0.39	0.63	0.14	42
2006	0.66	0.68	0.57	0.85	0.33	49
2007	0.70	0.96	0.75	1.19	0.44	61
2008	1.25	1.69	0.95	1.22	0.74	49
2009	1.08	1.18	1.02	1.22	0.71	18
2010	1.15	1.47	1.12	1.30	0.79	32
2011	1.37	1.47	1.22	1.63	0.91	38
2012	1.09	1.08	1.09	1.35	0.84	25
2013	1.12	1.10	1.05	1.38	0.91	17
2014	1.13	1.10	1.14	1.24	0.90	18

Notes: Based on data compiled from 564 emerging markets private equity (buyout, growth equity, private equity energy and mezzanine funds), and venture capital funds (includes funds investing primarily in Africa, Asia/Pacific–Emerging, Europe–Emerging, Latin America & Caribbean and Middle East–Emerging), including fully liquidated partnerships, formed between 1986 and 2014. Internal rates of return are net of fees, expenses and carried interest. CA research shows that most funds take at least six years to settle into their final quartile ranking, and previous to this settling they typically rank in 2-3 other quartiles; therefore fund or benchmark performance metrics from more recent vintage years may be less meaningful. Benchmarks with -- (not applicable) have an insufficient number of funds in the vintage year sample to produce a meaningful return.

Description of Performance Measurement Methodology

Cambridge Associates LLC (CA) has established a database to monitor investments made by venture capital and other alternative asset partnerships. On March 31, 2016, 1,380 Ex-U.S. developed markets & emerging markets private equity and venture capital funds from the years 1986 through 2015 were included in the sample. Users of the analysis may find the following description of the data sources and calculation techniques helpful to their interpretation of information presented in the report:

1. Partnership financial statements and narratives are the primary source of information concerning cash flows and ending residual/ net asset values (NAV) for both partnerships and portfolio company investments.
2. Recognizing the alternative asset community's sensitivity to the distribution of information pertaining to individual fund investments, as a matter of policy CA only releases aggregated figures in its benchmark report.
3. Vintage year is defined as the legal inception date as noted in a fund's financial statement. This date can usually be found in the first note to the audited financial statements and is prior to the first close or capital call.
4. CA uses both the since inception internal rate of return and the end-to-end or horizon performance calculation in its benchmark reports:
 - a. The since inception internal rate of return (SI IRR) is a since inception calculation that solves for the discount rate, which makes the net present value of an investment equal to zero. The calculation is based on cash-on-cash returns over equal periods modified for the residual value of the partnership's equity or portfolio company's NAV. The residual value attributed to each respective group being measured is incorporated as its ending value. Transactions are accounted for on a quarterly basis, and annualized values are used for reporting purposes. Please note that all transactions are recorded on the 45th day or midpoint of the quarter.
 - b. Cambridge Associates uses the end-to-end or horizon internal rate of return calculation to calculate the official quarterly, annual, and multi-year index figures. The horizon IRR performance calculation is a money-weighted return similar to the since inception IRR; however, it is measuring performance between two points in time. The calculation incorporates the beginning NAV (if any, treated as an inflow), interim cash flows and the ending NAV (if any, treated as an outflow). All interim cash flows are recorded on the mid-period date of the quarter. In order for a fund to be included in a horizon IRR calculation, the fund must have at least one quarterly contribution, distribution or NAV during the time frame being measured. Similar to the since inception IRR, the horizon IRR is annualized for time frames greater than one year.

Description of Performance Measurement Methodology (Continued)

5. Additional Calculation Definitions:

In order to provide meaningful statistics, Cambridge Associates has applied minimum fund count thresholds for each calculation.. See minimum counts in parenthesis after each calculation.

- a. **Pooled return** aggregates all cash flows and ending NAVs in a sample to calculate a dollar-weighted return.(minimum 3 funds)
 - b. **Arithmetic mean** averages the individual fund IRRs included in a vintage year. (minimum 3 funds)
 - c. **Median** is the middle fund IRR of the group of individual fund IRRs included in a vintage year. (minimum 5 funds)
 - d. **Equal-weighted pooled return** equally weights all cash flows and ending NAVs based on committed capital to calculate a dollar-weighted return. (minimum 3 funds)
 - e. **Upper/ lower quartile** are the thresholds for the upper (top 25%) and lower (bottom 25%) quartiles based on the individual fund IRRs included in a vintage year. Can be used in conjunction with the median to determine quartile placement. (minimum 8 funds)
 - f. **Standard deviation** is measure of the dispersion of the individual returns. The calculation employs the standard methodology for calculating a sample mean (not a population mean). (minimum 8 funds)
6. **Realization ratio exhibits** (TVPI, DPI, RVPI): CA has independently calculated the proper realization ratio for each fund in each vintage year. Please note that each fund has been ranked within its respective vintage year by the corresponding realization ratio, as opposed to being ranked by IRR as they are ranked in the since inception IRR exhibit. As a result a fund's ranking within its vintage year may change. For example, it is possible that a vintage year can have a different median fund when ranked by IRR vs. when ranked by TVPI, DPI or RVPI.
7. **Cambridge Associates Modified Public Market Equivalent (mPME)**: The mPME calculation is a private-to-public comparison that seeks to replicate private investment performance under public market conditions. The public index's shares are purchased and sold according to the private fund cash flow schedule, with distributions calculated in the same proportion as the private fund, and the mPME NAV (the value of the shares held by the public equivalent) is a function of mPME cash flows and public index returns. The mPME attempts to evaluate what return would have been earned had the dollars been deployed in the public markets instead of in private investments while avoiding the “negative NAV” issue inherent in some PME methodologies. “Value-Add” shows (in basis points) the difference between the actual private investment return and the mPME calculated return.
8. Exhibits detailing data for portfolio companies are grouped by year of the fund's initial investment in a company, as opposed to vintage year. Returns are gross returns.

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