



OPEN SESSION MEETING MATERIALS

HOWARD COUNTY RETIREMENT PLAN

MAY 27, 2021

Margaret Belmondo, Partner Will Forde, CFA, Principal Francesca LoVerde, Sr Consulting Analyst

OPEN SESSION AGENDA

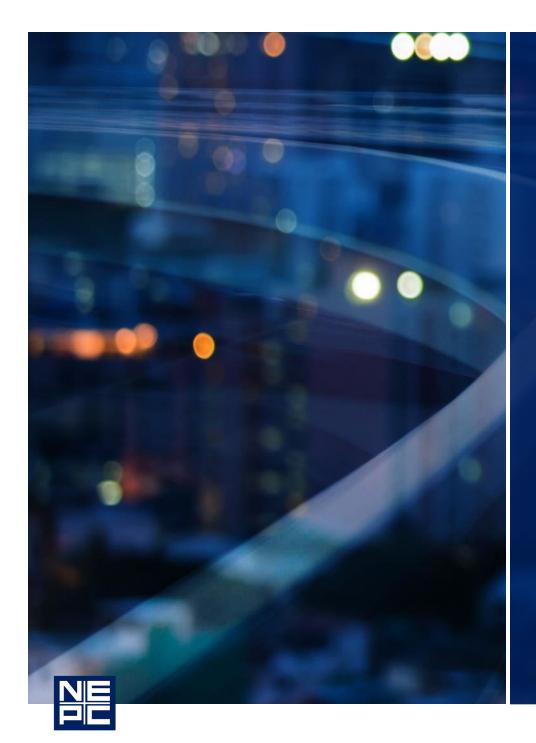
- April Preliminary Performance Report
- NEPC's Unfavorable News Committee
- Private Equity Pacing Plan & Recommendation
 18

<u>Slide</u>

3

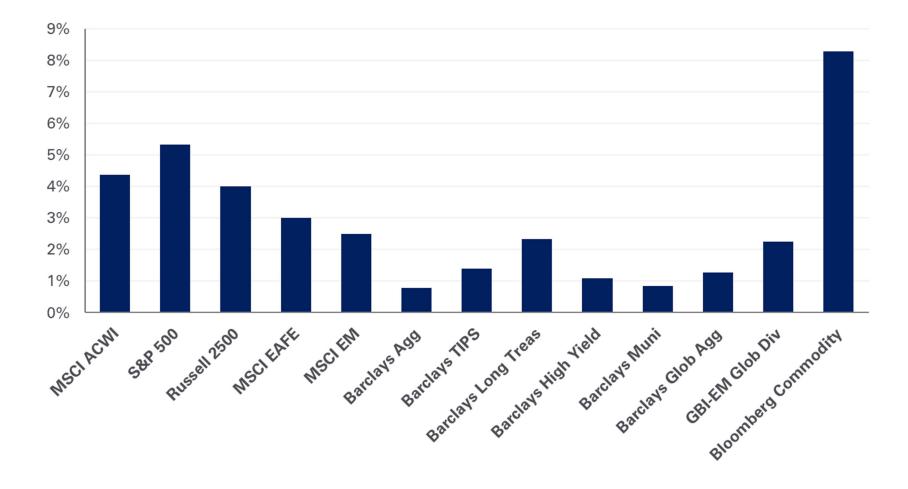
15





APRIL FLASH

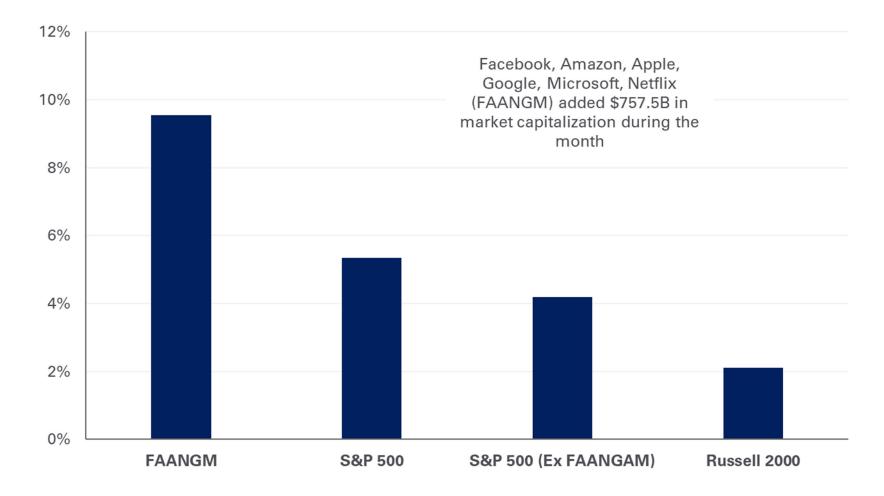
US EQUITIES OUTPERFORMED MONTHLY RETURNS





Source: S&P, Russell, MSCI, JPM, Bloomberg, FactSet

FAANGM STOCKS OUTPERFORMED MONTHLY RETURNS

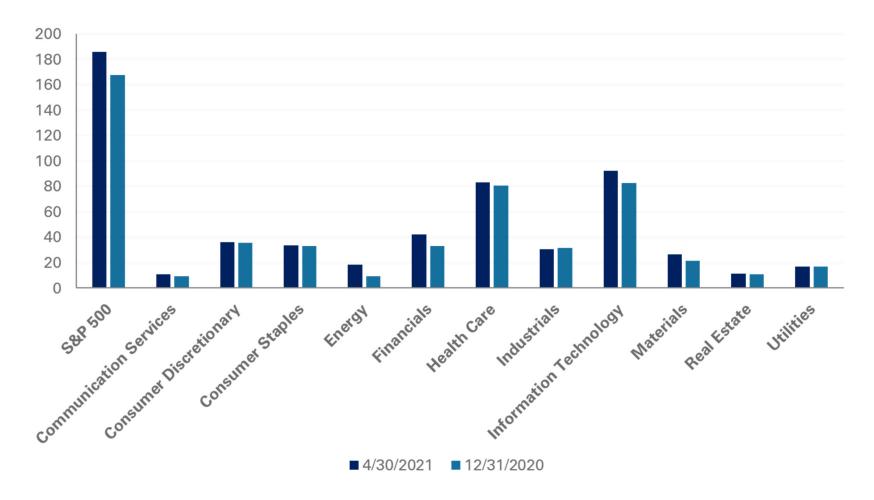




Source: S&P, Russell, FactSet

S&P 500 EARNINGS EXPECTATIONS IMPROVE

2021 EARNING PER SHARE ESTIMATES

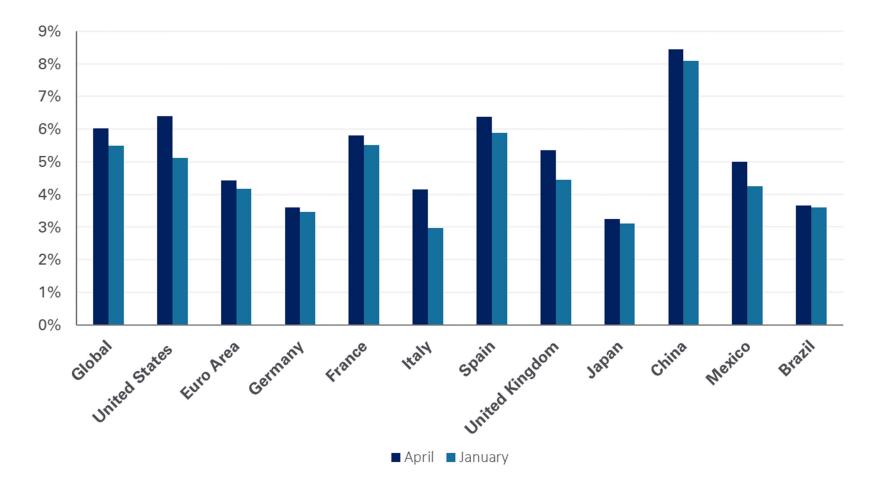




Source: S&P, FactSet

ECONOMIC OUTLOOK FOR 2021 IMPROVED

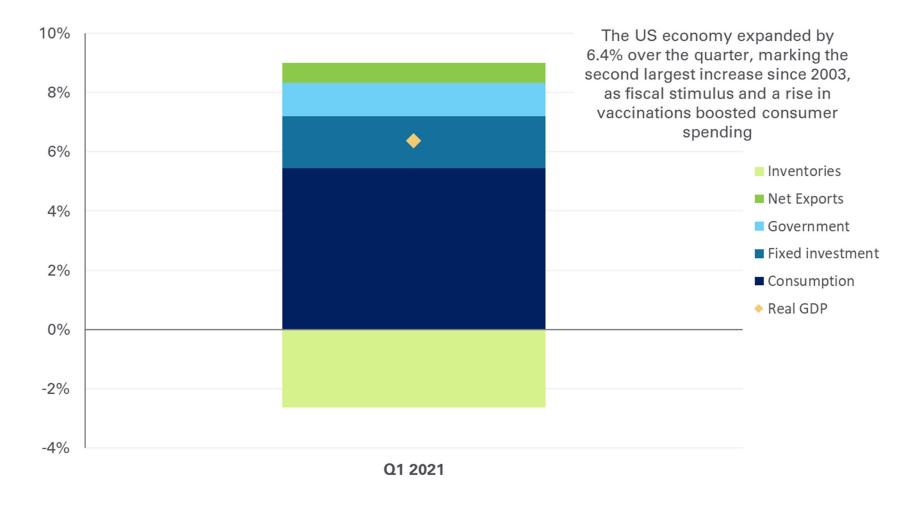
2021 IMF REAL GDP PROJECTIONS





Source: IMF World Economic Outlook

CONSUMER SPENDING FUELED GDP GROWTH CONTRIBUTIONS TO Q1 US REAL GDP





Source: Bureau of Economic Analysis

Howard County Retirement Plans TOTAL FUND PERFORMANCE SUMMARY (GROSS)

	Ending April 30, 2021											
	Market Value (\$)	% of Portfolio	Policy %	1 Mo (%)	YTD (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date
otal Fund Composite	1,382,234,357	100.0	100.0	2.3	6.4	22.8	27.3	10.9	11.0	8.3	7.8	Apr-97
Policy Index				2.3	5.2	19.9	23.8	9.8	9.6	7.6	7.7	Apr-97
Allocation Index				2.2	5.6	22.1	28.3					Apr-97
Total US Equity Composite	386,826,009	28.0	27.5	5.1	12.5	40.8	52.7	17.7	18.1	14.2	9.6	Jul-97
Russell 3000				5.2	11.8	40.1	50.9	18.9	17.7	14.0	9.0	Jul-97
US Equity Allocation Index				5.0	11.3	40.3	51.9	18.5	17.6	13.7		Jul-97
Total International Equity	235,062,095	17.0	17.5	2.6	6.2	35.6	49.8	9.6	11.9	5.6	5.6	Jul-97
MSCI ACWI ex USA				2.9	6.5	32.5	43.0	7.0	9.8	4.7	5.3	Jul-97
Total Fixed Income Composite	376,652,771	27.2	23.0	1.1	-1.7	3.2	6.7	5.6	4.6	4.4	5.4	Jul-97
Fixed Income Policy Index				0.8	-2.6	-1.4	-0.3	5.2	3.2	3.4	5.1	Jul-97
Total Real Assets Composite	44,458,112	3.2	6.0	0.0	0.8	6.9	-6.2	1.1	5.5	6.0	6.3	Jul-03
NCREIF Property Index 1 Qtr. Lag				0.0	1.2	0.9	1.6	4.9	5.9	9.0	8.3	Jul-03
Cash Composite	9,672,870	0.7		0.0	0.0	0.0	0.1	1.1	0.8	0.4	1.3	Dec-03
91 Day T-Bills				0.0	0.0	0.1	0.1	1.3	1.1	0.6	1.2	Dec-03
Hedge Fund Composite	137,213,257	9.9	8.0	1.2	3.4	12.1	15.7	5.9	5.8	5.2	5.2	Jan-11
HFRI FOF: Conservative Index				1.6	5.3	14.4	18.7	5.4	5.0	3.3	3.3	Jan-11
Private Equity Composite	188,599,243	13.6	13.0	0.0	18.1	39.4	31.7	21.3	19.5	15.8	14.6	Jul-08
C A US All PE (1 Qtr Lag)				0.0	13.2	36.7	22.9	15.7	15.5	14.0	11.5	Jul-08
Private Debt	3,750,000	0.3	5.0	0.0	0.0	0.0					0.0	Jun-20
S&P/LSTA Leveraged Loan TR				0.0	2.3	10.6	16.1	4.2	5.0	4.2	10.6	Jun-20

Fiscal year end 6/30.

All history prior to 3/1/2019 was provided by AndCo.



Howard County Retirement Plans TOTAL FUND PERFORMANCE DETAIL (GROSS)

									E	nding A	pril 30, 202	21
	Market Value (\$)	% of Portfolio	Policy %	1 Mo (%)	YTD (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date
Total Fund Composite	1,382,234,357	100.0	100.0	2.3	6.4	22.8	27.3	10.9	11.0	8.3	7.8	Apr-97
Policy Index				2.3	5.2	19.9	23.8	9.8	9.6	7.6	7.7	Apr-97
Allocation Index				2.2	5.6	22.1	28.3					Apr-97
Total Equity Composite	621,888,105	45.0	45.0	4.1	10.0	38.8	51.6	14.2	15.4	10.6	8.2	Apr-00
MSCI ACWI IMI				4.3	9.7	37.2	48.1	13.1	13.8	9.2	5.7	Apr-00
Total US Equity Composite	386,826,009	28.0	27.5	5.1	12.5	40.8	52.7	17.7	18.1	14.2	9.6	Jul-97
Russell 3000				5.2	11.8	40.1	50.9	18.9	17.7	14.0	9.0	Jul-97
US Equity Allocation Index				5.0	11.3	40.3	51.9	18.5	17.6	13.7		Jul-97
Large Cap Composite	324,602,874	23.5	22.0	5.4	13.3	40.5	51.4	17.8	17.7	14.2	9.8	Apr-01
Russell 1000				5.4	11.6	38.9	49.5	19.2	17.8	14.2	9.0	Apr-01
LSV Asset Management SMA	90,881,042	6.6		3.7	21.5	52.3	58.1	10.7	13.1	12.2	10.3	May-00
Russell 1000 Value				4.0	15.7	42.0	45.9	12.3	12.2	11.1	7.6	May-00
Westfield Capital Management SMA	121,147,866	8.8		6.9	9.6	37.0	52.1	24.5	22.7	16.0	18.5	Jul-10
Russell 1000 Growth				6.8	7.8	36.0	51.4	25.4	22.9	17.0	19.1	Jul-10
BlackRock Equity Index Non-Lendable Fund	112,573,966	8.1		5.3	11.8	36.6	46.0				24.5	Dec-19
S&P 500				5.3	11.8	36.6	46.0	18.7	17.4	14.2	24.5	Dec-19
Small/Mid Cap Composite	62,223,135	4.5	5.5	3.3	8.5	42.0	59.2	17.6	19.7	14.6	13.0	Apr-93
Russell 2500				4.0	15.4	55.6	71.9	16.8	16.5	12.3	11.2	Apr-93
William Blair SMA	22,494,859	1.6		4.5	9.2	43.9	60.2	21.7	21.9	16.4	14.0	Jun-06
Russell 2500 Growth				3.5	6.1	46.1	67.3	21.6	20.5	14.2	11.9	Jun-06
ICM Small Company - ICSCX	19,688,372	1.4		2.9	24.9	66.2	76.1	12.8	15.4	12.1	12.4	Apr-93
Russell 2000 Value				2.0	23.6	69.1	79.0	11.7	13.5	10.1	10.4	Apr-93
Brown Capital Small Company Strategy SMA	20,039,904	1.4		2.5	-4.3	22.8	44.4	19.6	23.5		19.7	Aug-11
Russell 2000 Growth				2.2	7.2	48.8	69.2	18.0	18.9	12.9	14.2	Aug-11



Howard County Retirement Plans TOTAL FUND PERFORMANCE DETAIL (GROSS)

									E	nding A	pril 30, 202	21
	Market Value (\$)	% of Portfolio	Policy %	1 Mo (%)	YTD (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date
Total International Equity	235,062,095	17.0	17.5	2.6	6.2	35.6	49.8	9.6	11.9	5.6	5.6	Jul-97
MSCI ACWI ex USA				2.9	6.5	32.5	43.0	7.0	9.8	4.7	5.3	Jul-97
International Developed Markets Composite	147,729,723	10.7	11.0	2.9	7.1	33.7	48.2	9.7	10.6	6.5	4.9	Mar-08
MSCI EAFE				3.0	6.6	29.6	39.9	6.3	8.9	5.2	3.6	Mar-08
Mondrian International Equity Fund, L.P.	75,272,250	5.4		2.0	9.4	30.9	37.2	3.4	6.9	4.8	2.6	Dec-07
MSCI EAFE				3.0	6.6	29.6	39.9	6.3	8.9	5.2	2.7	Dec-07
Baillie Gifford EAFE Pure K - BGPKX	72,457,473	5.2		3.9	5.0	35.9	57.2	15.3			15.3	May-18
MSCI EAFE				3.0	6.6	29.6	39.9	6.3	8.9	5.2	6.3	May-18
International Emerging Markets Composite	87,332,372	6.3	6.5	2.0	4.7	38.8	51.9	9.4	14.3	3.7	7.4	Feb-06
MSCI Emerging Markets				2.5	4.8	37.5	48.7	7.5	12.5	3.6	6.1	Feb-06
GQG Partners Emerging Markets Equity Fund	44,389,772	3.2		1.4	0.4	36.9	51.9				23.5	Dec-18
MSCI Emerging Markets				2.5	4.8	37.5	48.7	7.5	12.5	3.6	15.9	Dec-18
Arga Emerging Markets Equity Fund	42,942,600	3.1		2.6	9.3						9.3	Jan-21
MSCI Emerging Markets Value NR USD				2.3	6.5	37.1	43.8	3.1	8.6	1.0	6.5	Jan-21
Total Fixed Income Composite	376,652,771	27.2	23.0	1.1	-1.7	3.2	6.7	5.6	4.6	4.4	5.4	Jul-97
BBgBarc US Aggregate TR				0.8	-2.6	-1.4	-0.3	5.2	3.2	3.4	5.0	Jul-97
Core Fixed Income Composite	280,782,073	20.3	11.0	1.0	-1.5	2.1	4.6				7.2	Mar-19
BBgBarc US Aggregate TR				0.8	-2.6	-1.4	-0.3	5.2	3.2	3.4	5.7	Mar-19
Dodge & Cox SMA	125,416,259	9.1		0.9	-1.6	2.6	5.7	6.5	5.0	4.7	4.8	May-10
BBgBarc US Aggregate TR				0.8	-2.6	-1.4	-0.3	5.2	3.2	3.4	3.6	May-10
PIMCO Total Return	129,866,916	9.4		1.0	-1.7	1.2	3.3	6.1	4.3	3.9	4.3	May-10
BBgBarc US Aggregate TR				0.8	-2.6	-1.4	-0.3	5.2	3.2	3.4	3.6	May-10
State Street Global Advisors TIPS	25,498,899	1.8		1.4	-0.1	4.5	6.0	6.2	4.1	3.3	3.9	Nov-09
BBgBarc US TIPS TR				1.4	-0.1	4.6	6.1	6.2	4.1	3.3	3.9	Nov-09
Emerging Markets Debt Composite	46,732,103	3.4	4.0	2.4	-5.5	7.4	15.1				3.7	Mar-19
JP Morgan GBI EM Global Diversified TR USD				2.3	-4.6	5.3	11.2	1.0	3.0	0.3	3.0	Mar-19
Colchester Local Markets Debt Fund	46,732,103	3.4		2.4	-5.5	7.4	15.1	1.8	4.5		6.9	Oct-15
JP Morgan GBI EM Global Diversified TR USD				2.3	-4.6	5.3	11.2	1.0	3.0	0.3	5.1	Oct-15



Howard County Retirement Plans TOTAL FUND PERFORMANCE DETAIL (GROSS)

									E	nding A	pril 30, 202	21
	Market Value (\$)	% of Portfolio	Policy %	1 Mo (%)	YTD (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date
Absolute Return Fixed Income	49,138,595	3.6	4.0	0.5	1.1	5.4	11.8				2.9	Mar-20
3-Month Libor Total Return USD				0.0	0.1	0.2	0.2	1.6	1.5	0.9	0.4	Mar-20
Payden Absolute Return Bond Fund PYAIX	49,138,595	3.6		0.5	1.1	5.4	11.8				2.9	Mar-20
3-Month Libor Total Return USD				0.0	0.1	0.2	0.2	1.6	1.5	0.9	0.4	Mar-20
High Yield			4.0									May-21
Total Real Assets Composite	44,458,112	3.2	6.0	0.0	0.8	6.9	-6.2	1.1	5.5	6.0	6.3	Jul-03
NCREIF Property Index 1 Qtr. Lag				0.0	1.2	0.9	1.6	4.9	5.9	9.0	8.3	Jul-03
Cash Composite	9,672,870	0.7		0.0	0.0	0.0	0.1	1.1	0.8	0.4	1.3	Dec-03
91 Day T-Bills				0.0	0.0	0.1	0.1	1.3	1.1	0.6	1.2	Dec-03
Hedge Fund Composite	137,213,257	9.9	8.0	1.2	3.4	12.1	15.7	5.9	5.8	5.2	5.2	Jan-11
HFRI FOF: Conservative Index				1.6	5.3	14.4	18.7	5.4	5.0	3.3	3.3	Jan-11
Magnitude International Class A Eligible	68,183,770	4.9		0.8	2.4	10.9	13.7	5.4	5.0	5.0	5.1	Jan-11
HFRI FOF: Conservative Index				1.6	5.3	14.4	18.7	5.4	5.0	3.3	3.3	Jan-11
Blackstone Partners Offshore Fund LTD	69,029,486	5.0		1.6	4.4	13.3	17.7	6.4	6.4	5.3	5.3	Mar-11
HFRI FOF: Conservative Index				1.6	5.3	14.4	18.7	5.4	5.0	3.3	3.3	Mar-11
Private Equity Composite	188,599,243	13.6	13.0	0.0	18.1	39.4	31.7	21.3	19.5	15.8	14.6	Jul-08
C A US All PE (1 Qtr Lag)				0.0	13.2	36.7	22.9	15.7	15.5	14.0	11.5	Jul-08
Private Debt	3,750,000	0.3	5.0	0.0	0.0	0.0					0.0	Jun-20
S&P/LSTA Leveraged Loan				0.0	2.3	10.6	16.1	4.2	5.0	4.2	10.6	Jun-20



Howard County Retirement Plans TOTAL FUND PERFORMANCE DETAIL FOOTNOTES

Performance is preliminary for 4/30/2021.

Fiscal year ends 6/30.

Policy index consists of: 22% Russell 1000 / 5.5% Russell 2500 / 11% MSCI EAFE / 6.5% MSCI Emerging Markets / 9% BBgBarc US Aggregate TR / 2% BBgBarc US TIPS TR / 4% 3-Month Libor Total Return USD / 4% BBgBarc US High Yield TR / 4% JP Morgan GBI EM Global Diversified TR USD / 5% S&P/LSTA Leveraged Loan TR / 6.0% NCREIF Property Index 1 Qtr. Lag / 8% HFRI FOF: Conservative Index / 13% Private Equity Composite.

Allocation index consists of: Weighted index of underlying managers to their respective benchmark.

Fixed Income Policy index consists of: 100% BBgBarc US Aggregate TR.

Real Estate, Real Assets, Private Debt and Private Equity investments are valued as of 12/31/2020 and adjusted for capital calls and distributions through 3/31/2021.

All history prior to 3/1/2019 was provided by AndCo.





NEPC UNFAVORABLE NEWS COMMITTEE

NEPC UNFAVORABLE NEWS COMMITTEE

SUMMARY

There is an increasing incidence of negative news events surrounding the financial services industry. Given the increasing incidence of sexual harassment and other ethics-related allegations at investment managers, NEPC added a process around our response to the non-investment events. In January, 2019, a committee was created to assess significant negative press events unrelated to a fund manager's investment approach. Examples include sexual harassment, drug use, harassment, etc. The committee does not intend to consider news events related to a manager's investment approach, or generic non-investment news events.

FREQUENCY

The committee will meet ad-hoc in response to eligible news events, with the intention of having a call or meeting within 24 hours of our knowledge of the news item.

PROCESS

Analysts with eligible events will present the relevant media article(s) to the committee as quickly as reasonably possible, prior to speaking with the manager directly. While it's impossible to predict the variety of negative news events we could encounter, the goal is to preserve the ability to evaluate each instance on a case-by-case basis, while also following a consistent decision-making process. The following considerations provide a sample framework for evaluating news events and determining NEPC's response (in no particular order):

- Trust factor of the breaking news source (ex. National Enquirer vs. WSJ)
- Severity of accusation(s)
- Number of accusers
- Did the alleged events happen in the workplace or on personal time?
- Were these events first reported internally? Were they handled responsibly?
- What is the likelihood the behavior represents a cultural issue rather than a single-person issue?
- What are the reputational risks to NEPC for each possible response?
- What is the potential impact to the manager's business and investment results?
- What is the potential impact to NEPC clients?



NEPC UNFAVORABLE NEWS COMMITTEE, CONT.

To date, 16 firms have been brought to the UNC since its inception

• The outcomes have ranged from recommending no action to termination

IFM was brought to the UNC in October 2019

 NEPC had spent a significant amount of time addressing the headline risk associated with the firm. By May 2020, NEPC felt comfortable moving forward with assigning the IFM Global Infrastructure Fund a 1-rating. Within NEPC's AIM (alternative investment memo), this risk was documented as follows:

"Risks associated with growth are front of mind following a sexual harassment allegation against an IFM executive which was followed by a comprehensive organizational review conducted by Korn Ferry in 2019. Follow this review, Korn Ferry provided IFM with an assessment of recommendations and key findings. A main theme that emerged from this study was that IFM was struggling to maintain its historical culture and evolve the Firm's policies and procedures as Firm assets have increased rapidly. IFM is in the process of implementing several new firm-wide policies that are aimed at enhancing communication within the firm, promoting diversity and inclusion, enhancing risk controls, formalizing behavioral expectations and management responsibilities, and incorporating compliance with firm directives into employee performance assessments. Following the retirement of Brett Himbury, Chief Executive Officer, IFM announced that David Neal will assume the role starting March 30, 2020. It is important that the new CEO continue to build on the recommendations of the Korn Ferry study that recommended that the Firm put an enhanced focus on risk management, operations, systems, technology, and company culture. Mr. Neal will be tasked with continuing IFM's transition to a large, global asset manager"

• A more comprehensive review of the litigation can be found in NEPC's AIM under "Litigation, Regulation and Compliance (found in the closed session materials)





HOWARD COUNTY PRIVATE EQUITY PACING PLAN

EXECUTIVE SUMMARY: PRIVATE MARKETS

- NEPC has updated the Howard County Retirement Private Equity Plans' pacing to reflect the recent Private Equity target increase, from 10% to 13%
- The pacing plan considers: existing manager commitments and anticipated calls/distributions, the target allocation and the forecasted net growth rate.
- The Private Equity strategy is to maintain an active commitment pace in each vintage year going forward, being mindful of Howard County's liquidity needs.
 - Fund and manager recommendations are made in the context of the existing portfolio along with NEPC's market views.
 - Our goal is to develop a program that will invest in various strategies and achieve returns in excess of public market returns.
- Based on our review, Howard County should commit approximately \$35M in 2021
- NEPC Recommends a \$10M commitment to Linden Capital Partners IV*

Note: Pacing recommendations are based on annual forecasts, independent of when the model is run during the calendar year. For example, commitment recommendations based on June 30 data will encompass NEPC recommendations for the time period July 1 of the current year through June 30 of next year.

*A full due diligence report by NEPC is available in the closed session materials



PRIVATE EQUITY THOUGHTS & ACTIONS

Private Markets Thoughts

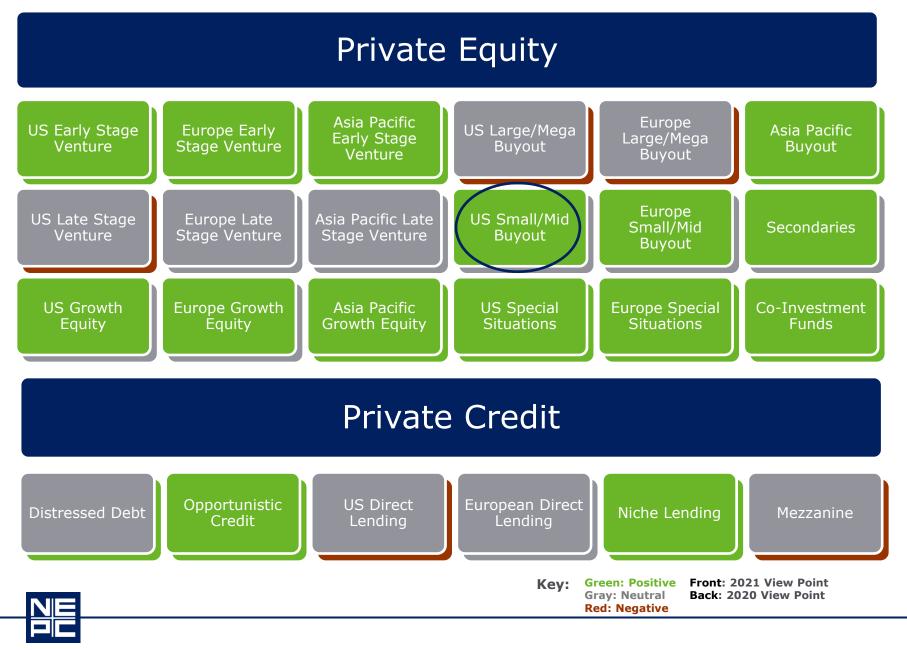
- Despite the rebound in the public markets, many public and private companies are still experiencing significantly impacted fundamentals
- The longer business disruption continues, private companies will be more likely to need new infusions of private capital to sustain operations or capitalize on opportunities
- Private investment valuations remain depressed for companies in heavily impacted industries. More resilient companies, particularly in tech sectors, have seen valuation increases
- Deal activity is rebounding from a slower start to the year, but 2020 totals for both capital calls and distributions will decrease markedly from 2019 levels
- While valuation declines will negatively impact current holdings, new capital deployed in recession-era vintages have historically generated higher alpha and illiquidity premia
- New fundraises for high quality managers remain very efficient

Private Markets Actions

- Maintain new commitments to capture higher illiquid returns; continue to back high performing managers but look for opportunities to access other top tier managers
- If you have to reduce your pacing, decrease commitment size and don't drop high quality managers and risk losing access to their future funds
- Consider severity of existing portfolio issues before committing to any manager's next fund
- Both private equity and private credit look more attractive relative to their historical levels; seek exposure to both but don't sacrifice longer term appreciation in favor of shorter term dislocation opportunities
- Seek managers with demonstrated industry expertise or other value-add capabilities to capture more consistent and reliable returns
- Build growth exposure in regions that have better managed the pandemic, as those economies have experienced less interruption



VIEW POINT SUMMARY



STRATEGY IMPLEMENTATION: PRIVATE EQUITY

Strat	egy	Outlook	Commentary
	Mega & Large	Neutral	This end of the market is the most efficient and correlated with public markets; look for sector specialists and groups with a proven edge to improve operations and increase profitability.
North American Buyout and Special Situations	Mid & Small	Positive	Target managers with a proven ability to scale undermanaged businesses to drive EBITDA growth and multiple expansion at exit. With higher manager dispersion in this part of the market, look for experienced teams with a demonstrable edge in sourcing.
	Special Situations	Positive	While this area has the greatest opportunity for inefficiencies, choosing managers with good asset selection and the ability to turn around underperforming businesses is paramount.
	Mega & Large	Neutral	In these relatively efficient markets, look for managers with some competitive advantage/angle in their deals; sector specialists and managers with the ability to deal with large complex deals.
European Buyout and Special Situations	Mid & Small	Positive	Seek managers that can source smaller founder-owned companies, or local GPs that can take local/regional champions and turn them into Pan-European leaders.
	Special Situations	Positive	Evaluate opportunistic special situations managers with flexible and nimble approaches able to capitalize on market, industry and/or specific company volatility; outperformers skew to smaller fund sizes.
Asia Pacific	Buyout	Positive	Buyout capital is a good source of transition capital for family-owned businesses and industries undergoing rapid structural changes. Opportunities differ by country. Invest with managers with strong sourcing channels and ability to drive value creation within their portfolios.
Buyout and Growth	Growth	Positive	China should be central to growth investing Asia-Pacific given the size of the country and the consumption spending of its rising middle class. Invest with groups that have strong local reputations and networks with local entrepreneurs.





HOWARD COUNTY PRIVATE EQUITY PACING PLAN

CURRENT STRATEGY AND VINTAGE YEAR EXPOSURES

(\$ in millions)						
	Private Equity	NAVs and	Exposures			
	Current	Capital	Total	% of	Private Equity Exposures	
	Valuation	to be	Current	Total		
Investment Strategy	(NAV)	Funded	Exposure	Exposure		 Buyout
Buyout	\$73.3	\$31.8	\$105.0	42.8%	21.1%	
Fund of Funds	\$57.0	\$14.8	\$71.9	29.3%	42.8%	Fund of Funds
Secondaries	\$13.1	\$3.8	\$16.9	6.9%	6.9%	
Venture Capital	\$44.5	\$7.2	\$51.7	21.1%		Secondaries
Total	\$187.9	\$57.6	\$245.5	100.0%	29.3%	
						Venture Capital

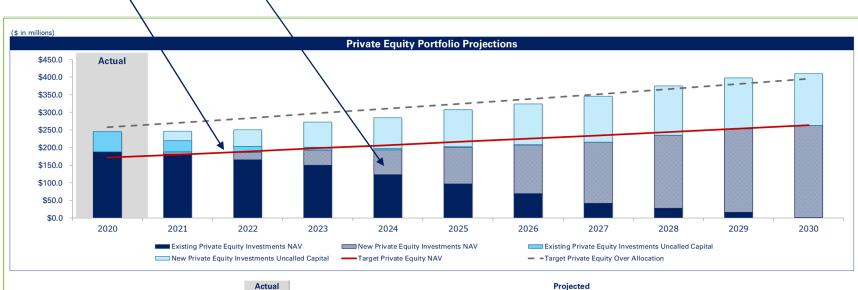
Private Equity Investments by Vintage Year

			Capital to be	Cumulative	Current Valuation					
Vintage Year	Commitment	Paid In Capital	Funded	Distributed	(NAV)	Total Value	Net Benefit	Call Ratio	DPI Ratio	TVPI Ratio
2008	\$4.0	\$3.8	\$0.2	\$7.5	\$3.7	\$11.2	\$7.4	96%	1.95x	2.91x
2010	\$3.0	\$2.0	\$1.0	\$2.7	\$0.4	\$3.1	\$1.2	66%	1.37x	1.58x
2011	\$21.0	\$19.3	\$1.7	\$19.2	\$26.6	\$45.9	\$26.6	92%	1.00x	2.38x
2012	\$19.2	\$15.5	\$3.7	\$12.7	\$11.2	\$23.9	\$8.4	81%	0.82x	1.54x
2013	\$30.0	\$29.5	\$0.5	\$31.1	\$23.5	\$54.5	\$25.0	98%	1.05x	1.85x
2014	\$30.0	\$27.4	\$2.6	\$14.3	\$52.8	\$67.2	\$39.8	91%	0.52x	2.45x
2015	\$28.9	\$20.2	\$8.8	\$1.3	\$32.3	\$33.6	\$13.4	70%	0.06x	1.67x
2017	\$19.4	\$14.8	\$4.7	\$2.6	\$23.4	\$25.9	\$11.2	76%	0.17x	1.76x
2018	\$5.8	\$1.9	\$3.9	\$0.0	\$2.7	\$2.7	\$0.8	33%	0.00x	1.39x
2019	\$12.3	\$6.4	\$5.9	\$0.0	\$8.7	\$8.7	\$2.3	52%	0.00x	1.37x
2020	\$27.0	\$2.3	\$24.7	\$0.0	\$2.6	\$2.6	\$0.3	8%	0.00x	1.14x
Total Private Equity	\$200.6	\$143.0	\$57.6	\$91.4	\$187.9	\$279.4	\$136.4	71%	0.64x	1.95x



ASSET PROJECTIONS

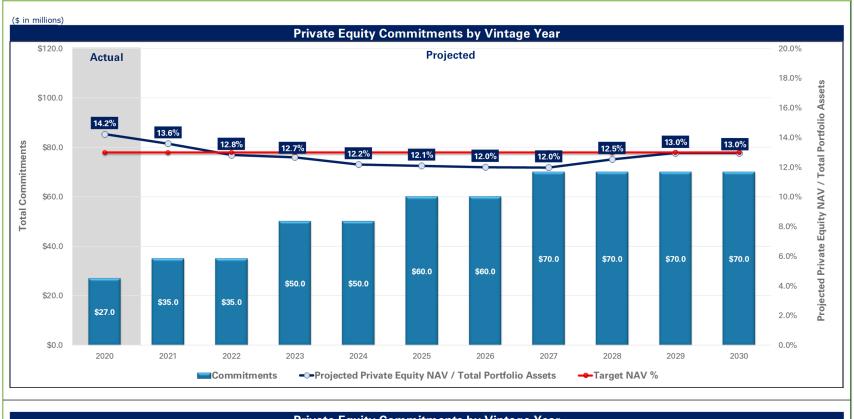
Red line is the 13.0% target private equity allocation based on projected plan total NAV; Black dashed line is the 1.5x recommended over-commitment pace.
 Goal is to keep the private equity NAV (navy blue bar) plus uncalled capital commitments (light blue bar), between red line and black dashed line while aligning the blue bar with the target red line.



	Actual					Pro	ojected				
Year	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
	¢407.0	\$ 400.0	* ****	6100 0	* ****	* ***	* ***	*••••	* 205 4	* 250.0	* ****
Private Equity NAV	\$187.9	\$188.3	\$186.3	\$193.3	\$194.0	\$201.0	\$207.8	\$215.9	\$235.4	\$252.9	\$262.8
Uncalled Capital Commitments	\$57.6	\$58.4	\$64.7	\$79.6	\$90.9	\$106.4	\$116.4	\$130.3	\$139.5	\$144.8	\$147.6
Private Equity NAV + Uncalled Capital Commitments	\$245.5	\$246.7	\$251.0	\$272.8	\$284.9	\$307.4	\$324.2	\$346.3	\$374.8	\$397.7	\$410.4
Target Private Equity NAV	\$171.9	\$180.3	\$189.1	\$198.4	\$207.1	\$216.2	\$225.2	\$234.5	\$244.3	\$253.8	\$263.7
Over-Commitment Pace	1.5x	1.5x	1.5x	1.5x	1.5x	1.5x	1.5x	1.5x	1.5x	1.5x	1.5x
Target Private Equity Over Allocation	\$257.8	\$270.4	\$283.7	\$297.6	\$310.7	\$324.3	\$337.8	\$351.8	\$366.4	\$380.7	\$395.5
Private Equity Percent of Total Portfolio Assets											
Private Equity NAV	14.2%	13.6%	12.8%	12.7%	12.2%	12.1%	12.0%	12.0%	12.5%	13.0%	13.0%
Private Equity Uncalled Capital Commitments	4.4%	4.2%	4.4%	5.2%	5.7%	6.4%	6.7%	7.2%	7.4%	7.4%	7.3%
NAV + Uncalled Capital Commitments	18.6%	17.8%	17.3%	17.9%	17.9%	18.5%	18.7%	19.2%	19.9%	20.4%	20.2%
Target Private Equity Allocation	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%



COMMITMENTS & ALLOCATION PROJECTIONS



Private Equity Commitments by Vintage Year

	Actual	N	Iore Certa	in	Less Certain						
Year	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Commitments	\$27.0	\$35.0	\$35.0	\$50.0	\$50.0	\$60.0	\$60.0	\$70.0	\$70.0	\$70.0	\$70.0
Target Private Equity Allocation (%)	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%
Projected Private Equity NAV / Total Portfolio Assets	14.2%	13.6%	12.8%	12.7%	12.2%	12.1%	12.0%	12.0%	12.5%	13.0%	13.0%



PROJECTED CASH FLOWS







APPENDIX

PACING MODEL INPUTS AND ASSUMPTIONS

		General	Portfolio /	Assumptio	ns					
otal Portfolio Assets	\$1,321.9			Portfolio Ret			2021	2022	2023	_
otal Private Equity Assets	\$187.9			Payouts %	stment Retur	'n %	5.90% -1.00%	5.90% -1.00%	5.90% -1.00%	
Private Equity Capital to be Funded	\$57.6			Net Growth	Rate %		4.90%	4.90%	4.90%	_
otal Private Equity Exposure	\$245.5									
otal Private Equity Assets / Total Portfolio Assets	14.2%									
otal Private Equity Exposure / Total Portfolio Assets arget Private Equity Allocation % (Current Target)	18.6% 13.0%			Portfolio Data Private Equit					3/31/2027 12/31/2020	
		Total Pro	ojected Po	rtfolio Asse	ets					
					Proi	ected				
	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
otal Portfolio Net Growth Rate	4.9%	4.9%	4.9%	4.4%	4.4%	4.2%	4.2%	4.2%	3.9%	3.9%
otal Portfolio Beginning NAV	\$1,321.9	\$1,386.7	\$1,454.7	\$1,525.9	\$1,593.1	\$1,663.2	\$1,732.2	\$1,804.1	\$1,879.0	\$1,952
early Net Growth	\$64.8	\$67.9	\$71.3	\$67.1	\$70.1	\$69.0	\$71.9	\$74.9	\$73.3	\$76.1
otal Portfolio Ending NAV	\$1,386.7	\$1,454.7	\$1,525.9	\$1,593.1	\$1,663.2	\$1,732.2	\$1,804.1	\$1,879.0	\$1,952.2	\$2,028
arget Private Equity Allocation	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%
arget Private Equity NAV	\$180.3	\$189.1	\$198.4	\$207.1	\$216.2	\$225.2	\$234.5	\$244.3	\$253.8	\$263.
Total	Projected P	ortfolio A	ssets and	Target Priv	ate Equity	Allocatio/	n			
2,500			Projected						\$2	,028
2,000 -			1 ((2)	\$1,732	\$1,8	04	\$1,879	\$1,952	ΨZ	,020
1,500 \$1,387 \$1,455 \$1,526	\$1,593	\$	1,663	<i>q</i> 1 <i>110L</i>						
1,500 - \$1,387 \$1,455										
1,000 -										
\$500 - \$180 \$189 \$1	98	\$207	\$216	\$	225	\$235	\$244	4	\$254	\$26
\$0			Ţ							
\$0 2021 2022 2023	202	24	2025	2026		2027	2028	20	29	2030
2021 2022 2023	202	-⊤ al Portfolio En		Target Private			2020	20.		2000



EXISTING COMMITMENTS

Existing Private Equity Investments												
				Buyout								
Fund Name	Vintage Year	Committed	Paid In Capital	Capital To Be Funded	Cumulative Distributions	Current Valuation (NAV)	Total Value	Net Benefit	DPI Ratio	TVPI Ratio		
Schroder Adveq Europe V L.P.	2012	\$9.2	\$8.2	\$1.0	\$5.6	\$6.7	\$12.3	\$4.1	0.69x	1.50x		
Aberdeen U.S. Private Equity V, L.P.	2013	\$15.0	\$15.0	\$0.0	\$10.8	\$14.6	\$25.4	\$10.4	0.72x	1.69x		
HarbourVest Partners 2013 Direct Fund L.P.	2013	\$15.0	\$14.5	\$0.5	\$20.3	\$8.9	\$29.2	\$14.7	1.40x	2.01x		
Aberdeen U.S. Private Equity VI, L.P.	2014	\$15.0	\$14.0	\$1.0	\$6.1	\$15.6	\$21.7	\$7.7	0.43x	1.55x		
Schroder Adveq Europe VI L.P.	2015	\$6.9	\$5.2	\$1.7	\$0.9	\$7.1	\$8.0	\$2.8	0.17x	1.53x		
Aberdeen U.S. Private Equity VII, L.P.	2017	\$5.0	\$3.1	\$2.0	\$0.9	\$3.8	\$4.7	\$1.6	0.30x	1.54x		
HarbourVest Partners Co-Investment Fund IV L.P.	2017	\$9.4	\$7.5	\$2.0	\$1.7	\$13.8	\$15.5	\$8.0	0.22x	2.08x		
HarbourVest Partners Co-Investment Fund IV AIV L.P.	2018	\$0.6	\$0.3	\$0.3	\$0.0	\$0.3	\$0.3	\$0.1	0.00x	1.32x		
Schroder Adveg Europe Direct II S.C.S.	2018	\$1.1	\$0.5	\$0.6	\$0.0	\$0.7	\$0.7	\$0.2	0.00x	1.47x		
Schroder Adveg Europe VII S.C.S.	2018	\$4.2	\$1.2	\$3.0	\$0.0	\$1.6	\$1.6	\$0.4	0.00x	1.38x		
MPE III	2020	\$10.0	\$0.0	\$10.0	\$0.0	\$0.0	\$0.0	\$0.0	NA	NA		
Vista Foundation Fund IV, LP	2020	\$10.0	\$0.2	\$9.8	\$0.0	\$0.0	\$0.0	(\$0.1)	0.00x	0.21x		
Total Buyout		\$101.3	\$69.6	\$31.8	\$46.2	\$73.3	\$119.5	\$49.9	0.66x	1.72x		

			Fu	nd of Funds						
				Capital To Be	Cumulative	Current Valuation				
Fund Name	Vintage Year	Committed	Paid In Capital	Funded	Distributions	(NAV)	Total Value	Net Benefit	DPI Ratio	TVPI Ratio
LGT Crown Asia-Pacific II	2011	\$14.0	\$12.9	\$1.1	\$8.5	\$14.3	\$22.8	\$9.9	0.66x	1.77x
LGT Crown Asia-Pacific III	2014	\$5.0	\$4.2	\$0.8	\$1.0	\$8.8	\$9.8	\$5.6	0.24x	2.33x
57 Stars Global Opportunity Fund 4 (U.S.), L.P.	2015	\$7.0	\$5.2	\$1.8	\$0.0	\$8.2	\$8.2	\$3.0	0.00x	1.58x
NB Crossroads Fund XXI - Asset Allocation LP	2015	\$15.0	\$9.8	\$5.3	\$0.4	\$17.0	\$17.4	\$7.7	0.04x	1.79x
Greenspring Global Partners IX-B, L.P.	2019	\$7.3	\$3.7	\$3.6	\$0.0	\$5.3	\$5.3	\$1.6	0.00x	1.43x
NB Crossroads Fund XXII Asset Allocation	2019	\$5.0	\$2.7	\$2.3	\$0.0	\$3.5	\$3.5	\$0.8	0.00x	1.28x
Total Fund of Funds		\$53.3	\$38.4	\$14.8	\$9.9	\$57.0	\$67.0	\$28.6	0.26x	1.74x

Secondaries											
Fund Name	Vintage Year	Committed	Paid In Capital	Funded	Distributions	Valuation	Total Value	Net Benefit	DPI Ratio	TVPI Ratio	
Pantheon Global Secondary Fund IV L.P.	2010	\$3.0	\$2.0	\$1.0	\$2.7	\$0.4	\$3.1	\$1.2	1.37x	1.58x	
LGT Crown Global Secondaries III	2012	\$10.0	\$7.3	\$2.7	\$7.1	\$4.5	\$11.6	\$4.3	0.97x	1.59x	
Greenspring Secondaries Fund I, L.P.	2014	\$2.5	\$2.4	\$0.1	\$3.8	\$8.1	\$11.9	\$9.5	1.58x	4.97x	
Total Secondaries		\$15.5	\$11.7	\$3.8	\$13.6	\$13.1	\$26.7	\$15.0	1.17x	2.28x	

	Venture Capital											
Vintage Year	Committed	Paid In Capital	Funded	Distributions	Valuation	Total Value	Net Benefit	DPI Ratio	TVPI Ratio			
2008	\$4.00	\$3.84	\$0.16	\$7.50	\$3.69	\$11.19	\$7.35	1.95x	2.91x			
2011	\$7.00	\$6.37	\$0.63	\$10.72	\$12.33	\$23.04	\$16.67	1.68x	3.62x			
2014	\$7.50	\$6.75	\$0.75	\$3.45	\$20.24	\$23.69	\$16.94	0.51x	3.51x			
2017	\$5.00	\$4.25	\$0.75	\$0.00	\$5.73	\$5.73	\$1.48	0.00x	1.35x			
2020	\$7.00	\$2.10	\$4.90	\$0.00	\$2.55	\$2.55	\$0.45	0.00x	1.22x			
	\$30.50	\$23.31	\$7.19	\$21.67	\$44.54	\$66.21	\$42.90	0.93x	2.84x			
	2008 2011 2014 2017	2008 \$4.00 2011 \$7.00 2014 \$7.50 2017 \$5.00 2020 \$7.00	2008 \$4.00 \$3.84 2011 \$7.00 \$6.37 2014 \$7.50 \$6.75 2017 \$5.00 \$4.25 2020 \$7.00 \$2.10	2008 \$4.00 \$3.84 \$0.16 2011 \$7.00 \$6.37 \$0.63 2014 \$7.50 \$6.75 \$0.75 2017 \$5.00 \$4.25 \$0.75 2020 \$7.00 \$2.10 \$4.90	2008 \$4.00 \$3.84 \$0.16 \$7.50 2011 \$7.00 \$6.37 \$0.63 \$10.72 2014 \$7.50 \$6.75 \$0.75 \$3.45 2017 \$5.00 \$4.25 \$0.75 \$0.00 2020 \$7.00 \$2.10 \$4.90 \$0.00	2008 \$4.00 \$3.84 \$0.16 \$7.50 \$3.69 2011 \$7.00 \$6.37 \$0.63 \$10.72 \$12.33 2014 \$7.50 \$6.75 \$0.75 \$3.45 \$20.24 2017 \$5.00 \$4.25 \$0.75 \$0.00 \$5.73 2020 \$7.00 \$2.10 \$4.90 \$0.00 \$2.55	2008 \$4.00 \$3.84 \$0.16 \$7.50 \$3.69 \$11.19 2011 \$7.00 \$6.37 \$0.63 \$10.72 \$12.33 \$23.04 2014 \$7.50 \$6.75 \$0.75 \$3.45 \$20.24 \$23.69 2017 \$5.00 \$4.25 \$0.75 \$0.00 \$5.73 \$5.73 2020 \$7.00 \$2.10 \$4.90 \$0.00 \$2.55 \$2.55	2008\$4.00\$3.84\$0.16\$7.50\$3.69\$11.19\$7.352011\$7.00\$6.37\$0.63\$10.72\$12.33\$23.04\$16.672014\$7.50\$6.75\$0.75\$3.45\$20.24\$23.69\$16.942017\$5.00\$4.25\$0.75\$0.00\$5.73\$5.73\$1.482020\$7.00\$2.10\$4.90\$0.00\$2.55\$2.55\$0.45	2008 \$4.00 \$3.84 \$0.16 \$7.50 \$3.69 \$11.19 \$7.35 1.95x 2011 \$7.00 \$6.37 \$0.63 \$10.72 \$12.33 \$23.04 \$16.67 1.68x 2014 \$7.50 \$6.75 \$0.75 \$3.45 \$20.24 \$23.69 \$16.94 0.51x 2017 \$5.00 \$4.25 \$0.75 \$0.00 \$5.73 \$5.73 \$1.48 0.00x 2020 \$7.00 \$2.10 \$4.90 \$0.00 \$2.55 \$2.55 \$0.45 0.00x			





BUYOUTS MARKET UPDATE

NORTH AMERICAN BUYOUT & SPECIAL SITUATIONS

General Market Thoughts

- Fundraising momentum maintained through first quarter before tailing off
 - Strong GPs with established LP bases were still able to raise funds; small and emerging managers had more difficulty in this environment
 - Fundraising timelines were extended

• Managers balancing between defense and offense

- Early 2020 spent triaging portfolios to understand and manage financial impact of the shutdowns
- New platform activity slowed, but managers well-positioned to pursue add-ons have done so
- Quarterly valuations in flux
 - After the Q1 downturn, EBITDA has largely stabilized. Valuations are likely to be flat to slightly up for the remainder of 2020
 - Large buyouts have held up better than small
- Exit activity slowed, with a higher mix of IPO exits in 2020
- Recent fully invested vintages most likely to be negatively impacted; new funds raised in this environment should outperform

		Implementation Views
Strategy	Outlook	Commentary
US Mega & Large	Neutral	This end of the market is the most efficient and correlated with public markets; look for sector specialists and groups with a proven edge to improve operations and increase profitability.
US Mid & Small	Positive	Target managers with a proven ability to scale undermanaged businesses to drive EBITDA growth and multiple expansion at exit. With higher manager dispersion in this part of the market, look for experienced teams with a sourcing edge.
Special Situations	Positive	While this area has the greatest opportunity for inefficiencies, choosing managers with good asset selection and the ability to turn around underperforming businesses is paramount.



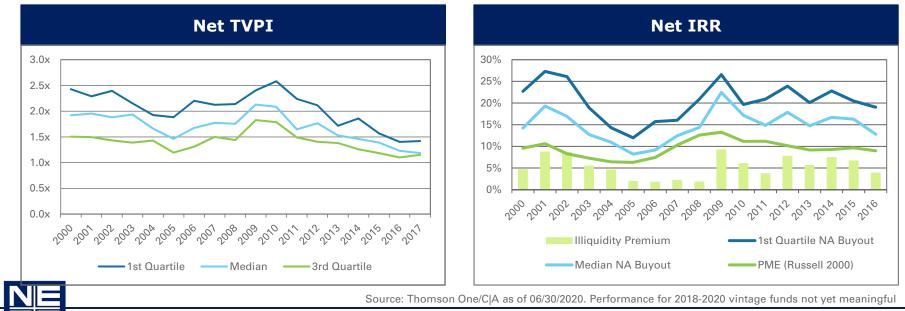
NORTH AMERICAN BUYOUT & SPECIAL SITUATIONS FUNDRAISING & RETURNS

Comments

- Fundraising has unsurprisingly fallen from the 2019 peak. Mega funds continue to drive fundraising totals, with five mega funds representing 60% of 2020 fundraising totals
- Recent fundraising trends have shown a flight to quality, with more established buyout managers taking a larger share of capital raised
- Illiquidity premium shows clear outperformance in years following a downturn

Annual Fundraising



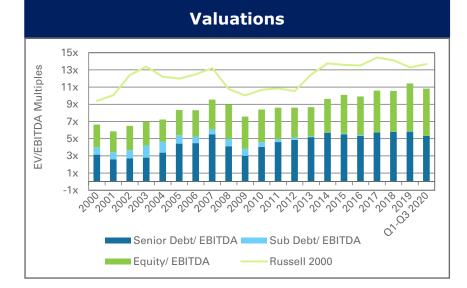


Fundraising data from Preqin as of 11/30/2020

NORTH AMERICAN BUYOUT & SPECIAL SITUATIONS TRANSACTION ENVIRONMENT

Comments

- Valuations are slightly down but remain high, with average EBITDA multiples around 11x for all LBOs in 2020. Large "quality" deals make up the majority of transaction value to date
- Better interest coverage on 2020 transactions than in the last several years
- Deal activity is unsurprisingly down in 2020, reflecting hesitancy to transact. Add-ons represent a higher portion of total activity. Exits are down significantly from 2019, with IPOs constituting a higher mix than recent years





Deal Activity

US PE Exit Activity



Source: S&P Global Market Intelligence as of 9/30/2020, FactSet as of 10/20/2020. Pitchbook as of 9/30/2020



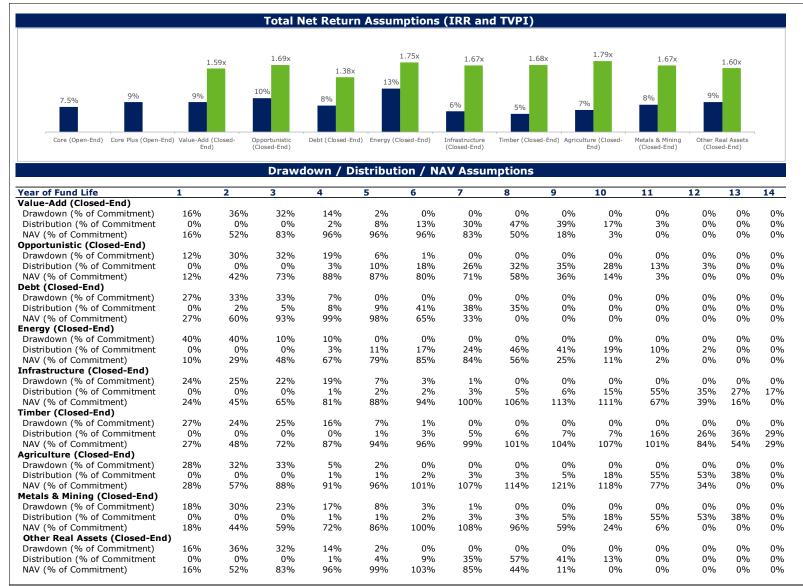
NEPC MODEL ASSUMPTIONS

PACING ASSUMPTIONS BY STRATEGY

			Total N	let Ret	urn Assun	nptions (1	IRR an	d TVPI)					
1.80x 1.75x				1.65x		1.80×		1.74x			1.8	30x	1.80x	
16% 15%	1.30x	1. 13%	55x 12	1.65x 2%	1.49x	15%			1.40x 12%	1.50x 13%	16%	14	%	
	9%				10%		6%							
Buyout Co-Invest	Direct Lending	Distres	ised I	Energy	Fund of Funds	Growth Equity	/ Infrast	ructure	Mezzanine	Secondaries	Speci Sits/Turna		ire Capita	al
			Drawd	lown /	Distributi	on / NAV	Assur	nption	5					
ear of Fund Life	1	2	3	4	5	6	7	8	9	10	11	12	13	14
uyout														
Drawdown (% of Commitment)	20%	23%	24%	19%	8%	3%	2%	1%	0%	0%	0%	0%	0%	0%
Distribution (% of Commitment)	0%	1%	7%	18%	24%	27%	27%	24%	20%	14%	10%	5%	3%	0%
NAV (% of Commitment)	18%	41%	60%	66%	68%	60%	52%	38%	24%	15%	7%	3%	0%	0%
-Invest														
Prawdown (% of Commitment)	20%	23%	24%	19%	8%	3%	2%	1%	0%	0%	0%	0%	0%	09
istribution (% of Commitment)	0%	1%	7%	17%	23%	26%	26%	23%	20%	14%	10%	5%	3%	09
IAV (% of Commitment) r ect Lending	18%	41%	60%	67%	64%	57%	48%	38%	25%	15%	7%	3%	0%	09
Prawdown (% of Commitment)	45%	45%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	09
Distribution (% of Commitment)	3%	6%	15%	30%	30%	30%	16%	0%	0%	0%	0%	0%	0%	09
IAV (% of Commitment)	41%	81%	84%	64%	41%	15%	0%	0%	0%	0%	0%	0%	0%	0%
stressed	500/	224	120/	70/	0.04	00/	0.07	0.07	0.07	0.07	0.04	0.01	0.07	
Prawdown (% of Commitment)	58%	23%	12%	7%	0%	0%	0%	0%	0% 7%	0% 5%	0% 3%	0%	0% 0%	09
Distribution (% of Commitment)	3% 54%	9% 68%	18% 68%	27% 65%	25% 56%	24% 40%	20% 26%	12% 17%	11%	5% 7%	3% 3%	2% 0%	0%	09
IAV (% of Commitment) I nd of Funds	54%	08%	08%	05%	50%	40%	20%	1/%	11%	7%	3%	0%	0%	09
	E0/	110/	17%	22%	100/	1.40/	00/	40/	2%	1.0/	0%	0.0/	0%	09
Drawdown (% of Commitment) Distribution (% of Commitment)	5% 0%	11% 0%	2%	22%	19% 6%	14% 15%	8% 20%	4% 25%	2%	1% 18%	15%	0% 10%	0% 8%	49
IAV (% of Commitment)	4%	13%	2%	3% 45%	59%	15% 64%	20% 64%	25% 55%	46%	35%	22%	10%	8% 5%	29
owth Equity	4 70	1370	20%	43%	39%	0470	0470	55%	40%	3370	2270	1370	570	27
Prawdown (% of Commitment)	28%	21%	18%	15%	12%	4%	2%	0%	0%	0%	0%	0%	0%	09
Distribution (% of Commitment)	20%	5%	10%	16%	12%	24%	22%	22%	21%	16%	12%	6%	4%	49
IAV (% of Commitment)	26%	42%	49%	60%	62%	58%	52%	42%	30%	22%	12%	8%	4%	09
ezzanine	20,0	12 /0	1570	0070	02.70	50,0	52 /0	12 /0	5070	22/0	10/0	0 /0	170	5
Drawdown (% of Commitment)	32%	18%	17%	14%	13%	6%	0%	0%	0%	0%	0%	0%	0%	09
Distribution (% of Commitment)	1%	8%	15%	20%	23%	20%	18%	15%	12%	6%	2%	0%	0%	0
IAV (% of Commitment)	29%	40%	45%	41%	35%	32%	25%	15%	7%	2%	0%	0%	0%	0
condaries										-				-
Prawdown (% of Commitment)	30%	25%	22%	9%	6%	4%	3%	1%	0%	0%	0%	0%	0%	00
vistribution (% of Commitment)	2%	6%	12%	18%	25%	25%	20%	16%	12%	9%	3%	2%	0%	09
IAV (% of Commitment)	35%	58%	75%	75%	65%	50%	32%	22%	12%	5%	2%	0%	0%	09
ecial Sits/Turnaround														
Prawdown (% of Commitment)	20%	23%	24%	19%	8%	3%	2%	1%	0%	0%	0%	0%	0%	09
Distribution (% of Commitment)	0%	1%	7%	18%	24%	27%	27%	24%	20%	14%	10%	5%	3%	09
IAV (% of Commitment)	18%	41%	60%	66%	68%	60%	52%	38%	24%	15%	7%	3%	0%	00
enture Capital														
Drawdown (% of Commitment)	20%	20%	18%	12%	10%	8%	5%	3%	2%	2%	0%	0%	0%	00
Distribution (% of Commitment)	0%	0%	4%	5%	12%	23%	30%	30%	30%	22%	15%	5%	4%	00
NAV (% of Commitment)	18%	36%	50%	62%	65%	65%	58%	45%	34%	26%	9%	4%	0%	09



PACING ASSUMPTIONS BY STRATEGY





PACING PLAN DISCLAIMERS

NEPC's private markets pacing analysis projects a potential level of future assets and cash flows for a single scenario based on a series of assumptions. This analysis is intended to help estimate future exposure levels. It is not a guarantee of future cash flows, appreciation or returns.

The timing and amounts of projected future cash flows and market values of investments could vary significantly from the amounts projected in this pacing analysis due to manager-specific and industry-wide macroeconomic factors.

Estimates of projected cash flows and market values for existing private markets commitments were made at the Fund level and do not incorporate any underlying portfolio company projections or analysis.

The opinions presented herein represent the good faith views of NEPC as of the date of this report and are subject to change at any time.

Data used to prepare this report was obtained directly from the investment managers and other third parties. While NEPC has exercised reasonable professional care in preparing this report, we cannot guarantee the accuracy of all source information contained within.

This report may contain confidential or proprietary information and is intended only for the designated recipient(s). If you are not a designated recipient, you may not copy or distribute this document.



ALTERNATIVE INVESTMENT DISCLOSURES

It is important that investors understand the following characteristics of non-traditional investment strategies including hedge funds and private equity:

Performance can be volatile and investors could lose all or a substantial portion of their investment

Leverage and other speculative practices may increase the risk of loss

Past performance may be revised due to the revaluation of investments

These investments can be illiquid, and investors may be subject to lock-ups or lengthy redemption terms

A secondary market may not be available for all funds, and any sales that occur may take place at a discount to value

These funds are not subject to the same regulatory requirements as registered investment vehicles

Managers may not be required to provide periodic pricing or valuation information to investors

These funds may have complex tax structures and delays in distributing important tax information

These funds often charge high fees

Investment agreements often give the manager authority to trade in securities, markets or currencies that are not within the manager's realm of expertise or contemplated investment strategy



NEPC DISCLOSURES

Past performance is no guarantee of future results.

All investments carry some level of risk. Diversification and other asset allocation techniques do not ensure profit or protect against losses.

Some of the information presented herein has been obtained from external sources NEPC believes to be reliable. While NEPC has exercised reasonable professional care in preparing this content, we cannot guarantee the accuracy of all source information contained within.

The opinions presented herein represent the good faith views of NEPC as of the publication date and are subject to change at any time.

This presentation contains summary information regarding the investment management approaches described herein but is not a complete description of the investment objectives, portfolio management and research that supports these approaches. This analysis does not constitute a recommendation to implement any of the aforementioned approaches.

