

BOARD OF TRUSTEES INVESTMENT COMMITTEE Allen L. Ryan, Jr., Chair Charles T. George, Vice Chair All Trustees are Members

Wednesday, March 1, 2023 10:30 a.m. or immediately following previous meeting Board Room Tod Hall

AGENDA

- A. Disposition of Minutes for Meeting
- B. Old Business
- C. Committee Items
 - 1. Discussion Items
- C.1.a. = Tab 1

 a. Annual Disclosure of Trustee Relationships with University-Affiliated Financial Institutions

 Neal McNally, Vice President for Finance and Business Operations, will report.
- C.1.b. = Tab 2
 b. March 1, 2023 Quarterly Portfolio Asset Allocation and Investment Performance Review
 John Colla, Clearstead, will report.
 - 2. Action Items
- C.2.a. = Tab 3

 a. Resolution to Approve an Outsourced Chief Investment Officer Investment Strategy John Colla, Clearstead, will report.
- C.2.b. = Tab 4
 b. Resolution to Approve the Addition of an Investment Manager for the Non-Endowed Long-Term Investment Pool
 John Colla, Clearstead, will report.
- C.2.c. = Tab 5
 c. Resolution to Approve Clearstead's Recommendation to Rebalance the Non-Endowment Long-Term Investment Pool John Colla, Clearstead, will report.

- D. New Business
- E. Adjournment



Disclosure of Relationships with University-Affiliated Financial Institutions

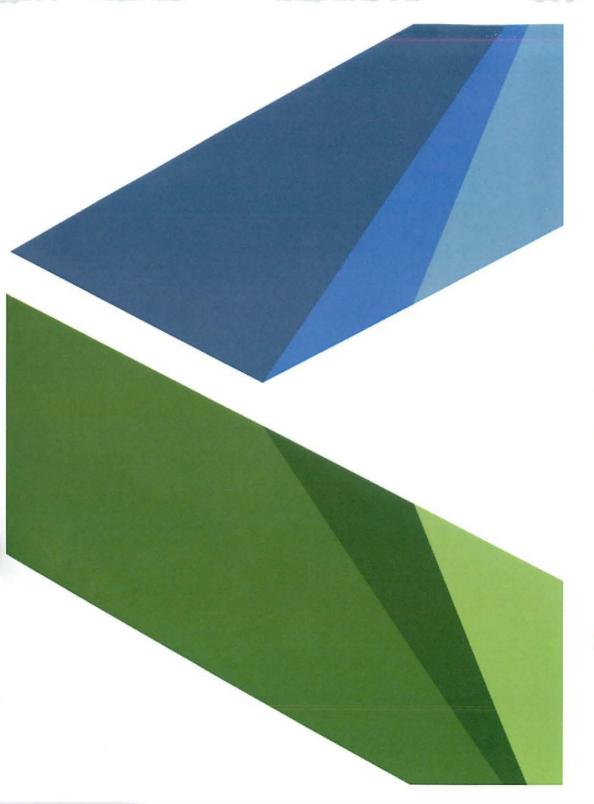
(Updated January 31, 2023)

In accordance with Youngstown State University policy 3356-3-10, *Investment of the University's Non-Endowment and Endowment Funds*, members of the Board of Trustees are required to disclose relationships, beyond the ordinary customer relationships, with the financial institutions involved with the University's non-endowment and endowment funds. Please disclose the nature of any relationships with the institutions listed below.

The financial institutions involved with the Non-Endowment Funds are as follows:

	Clearstead
	Diamond Hill
	Dimensional Fund Advisors (DFA)
	Dodge & Cox
	Evanston Capital
	Federated
	H.I.G. Capital
	J.P. Morgan
	Loomis Sayles
	Lord Abbett
	PNC
	Prudential Global Investment Management (PGIM)
	State Treasury Asset Reserve of Ohio (STAR Ohio)
	Vanguard
	Victory
	Wells Fargo
	William Blair
	I have no business or familial relationship with the above institutions that require disclosure
The Fi	nancial Institutions involved with the Endowment Funds are as follows:
	Clearstead
	Huntington National Bank
	PNC
	Vanguard
	I have no business or familial relationship with the above institutions that require disclosure
SIGNI	ED:DATED:

For audit and compliance purposes, please email completed form to <u>npmcnally@ysu.edu</u>, or send to YSU, Tod Hall 223, Office of the Vice President for Finance & Business Operations, by June 30, 2023.



March 1, 2023

YOUNGSTOWN STATE UNIVERSITY



1100 Superior Avenue East Suite 700 Cleveland, Ohio 44114 216.621.1090 | clearstead.com

CLEARSTEAD OVERVIEW

\$26+ BILLION
ASSETS UNDER ADVISEMENT*

1989 YEAR ESTABLISHED 130+ NUMBER OF EMPLOYEES

PRIVATE WEALTH MANAGEMENT

INVESTMENT OFFICE

INSTITUTIONAL INVESTMENT CONSULTING

Comprehensive Services:

Financial & Estate Planning Tax Strategy & Compliance Investment Advisory Family Office Administration Clearstead Trust

clearsight

Thought Leadership:

Quarterly Market Updates
Research Corner
ClearPoint
Market Minute
Clearstead Investment Forum Podcast

clearaccess.

Customized Services:

Investment Advisory
Fiduciary Services
Governance & Oversight
Retirement Plan Consulting
eVestech Client Portal

PRISM

SUSTAINABLE CLEARSTEAD







*Approximate as of 12/31/2022.



INSIGHTS & NEWS

PR, AWARDS & INITIATIVES **PUBLICATIONS** PODCAST & VIDEOS CLEARPOINT PR Implementing an Investment Plan: Is Timing a Investing in Clients: Clearstead Advisors, LLC to Critical Component? Launch Virtual Client Hub with eVestech Behavioral Finance Can Create Calm Out of Difficult **<** clearstead Markets INVESTMENT FORUM Where's the Income? AWARD 2021 NAPA Top DC Advisor Teams* RESEARCH CORNER Episode 9: Staying in the Game: Women In Venture Capital Weekly Updates from our Investment Office **VIDEOS** MARKET UPDATES Update: FTX **4Q22 Quarterly Insights** About Clearstead Private Wealth Management MARKET MINUTE INITIATIVE Institutional Investment Consulting Review of September 2022 Sustainable Clearstead 2022 Impact Report The Investment Office Review of October 2022 Review of November 2022 Review of December 2022

*Clearstead responded to a survey from the sponsoring organization and did not pay a fee to be considered for the award. Third-party rankings and recognitions are no guarantee of future investment success and do not ensure that a client or prospective client will experience a higher level of performance results. These rankings are from an independent third-party organization and should not be construed as an endorsement of the advisor by any organization.







CONTENTS

- 1. Fiduciary Oversight Model: Discretion (OCIO) vs. Non-Discretion (ACTION)
- 2. Initiatives
- 3. Capital Markets Update
- 4. Non-Endowment Assets: Performance & Asset Allocation Review
 - Real Assets: Infrastructure Manager Recommendation (ACTION)
 - Portfolio Recommendations (ACTION)

APPENDIX

Endowment Assets: Performance & Asset Allocation Review

Supporting Information



clearstead

FIDUCIARY OVERSIGHT MODEL: DISCRETION (OCIO) VS. NON-DISCRETION

EXECUTIVE SUMMARY

The current investment structure that exists today between Clearstead and Youngstown State is considered non-discretion. This has worked well over the years and has led to successful investment results.

At the request of the Board, Clearstead brought education to the Investment Committee and Board about types of Fiduciary service models – discretion (outsourced chief investment officer, "OCIO") and non-discretion – and the differences in roles and responsibilities between them.

A discretionary service model would allow Clearstead to act more nimbly, rebalancing the portfolio and entering into new investment strategies when their firm believes is optimal, rather than wait until the next Board meeting for approval. Clearstead would continue to operate within the policy and asset allocation guidelines set by the Board.

Another difference between the service models is fees, as a discretionary (OCIO) assignment often comes with higher fees compared to a non-discretionary assignment. Clearstead values its partnership with YSU and **would not** pursue a change to the current fee structure.

The University evolving its partnership with Clearstead to a discretionary service model would delegate portfolio implementation to Clearstead as well as not change fees, an attractive solution for the Board's consideration.



EXECUTIVE SUMMARY (CONTINUED)

Tasks completed and next steps for the Board:

- Clearstead present education on different Fiduciary service models (COMPLETED)
- Clearstead to gather Committee feedback / questions and follow up with responses (COMPLETED)
- Board decision on evolving the investment structure with Clearstead to a discretionary assignment (ACTION)
- If Approved:
 - Clearstead would work with University stakeholders to update the investment advisory agreement to reflect a level of discretionary authority
 - Clearstead would review and recommend changes to the Investment Policy and guidelines to update roles and responsibilities
 - Clearstead would work with University stakeholders to be granted trading authority at PNC Bank (University's primary custodian) and any other custodians/managers (no authority for external cash movements will be given to Clearstead)





2023 CALENDAR YEAR INITIATIVES

		1Q	2Q	3Q	40	COMMENTS:	LAST REVIEWED
	Investment Policy Review Strategic Asset Allocation Review	Įų.			70	Potential Updates with Discretion Decision	Investment Policy: 03/02/2022 Strategic Asset Allocation: 03/02/2022 Fee Review: 09/20/2022
STRATEGIC / ADMINISTRATIVE	Peer Review 2024 Oversight Dashboard STAR Ohio/Plus Annual Review						MEETING SCHEDULE 1Q: March 1, 2023 2Q: June 21, 2023 3Q: September 19, 2023 4Q: December 6, 2023
PORTFOLIO	Fixed Income Review Alternative Investments Review Global Equity Review Invt Manager Recommendation	✓				March '23: Real Assets Infrastructure Manager Recommendation	
PERFORMANCE	Capital Markets Review Quarterly Performance Review Endowed Account Review / Oversight Fee Review	✓ ✓					
OTHER	ORC Compliance Review Clearstead Firm Update Investment Structure Review	✓ ✓					





QUARTERLY THEMES

WHAT HAPPENED LAST QUARTER?

- Both equity and fixed income markets were volatile throughout the quarter influenced by interest rate movements, inflation trending lower, and a potential recession, though ended the year recouping some losses
- International markets which lagged U.S. throughout most of the year, outperformed during the quarter
 - Quarter: S&P 500 +7.6%; MSCI EAFE +17.3%; MSCI Emerging Markets +9.7%
 - YTD: S&P 500 -18.1%; MSCI EAFE -14.5%; MSCI Emerging Markets -20.1%
- The Bloomberg Aggregate returned +1.9% for the quarter; 2022 was one of the most challenging periods for fixed income
- The global economy showed signs of modest strengthening during the quarter compared to first three quarters

LOOKING FORWARD:

- A recession is likely to be a process, not an event
- Markets continue to evaluate the earnings impact of the slowdown. Our base case scenario is any recession will be mild/shallow and corporate earnings will be moderately impacted
- · Volatility is likely to remain elevated
- The Federal Reserve will enter a hawkish deceleration phase as it monitors inflation and economic data, and may be approaching their destination
- Yield environment is creating improved prospects for future fixed income returns
- Understanding liquidity needs is important in what is expected to be a volatile year



HISTORICAL ASSET CLASS RETURNS

2013	2014	2015	2016	2017	2018	2019	2020	2021	Q1 2022	Q2 2022	Q3 2022	Q4 2022	2022
Sm/Mid	Large Cap	Large Cap	Sm/Mid	Em Mkt	Cash	Large Cap	Sm/Mid	Large Cap	Cash	Cash	Hdg Fnds	Dev Intl	Cash
36.8%	13.7%	1.4%	17.6%	37.3%	1.9%	31.5%	20.0%	28.7%	0.0%	0.1%	0.7%	17.3%	1.5%
Large Cap	Sm/Mid	US Bonds	Hi Yld	Dev Intl	US Bonds	Sm/Mid	Large Cap	Sm/Mid	Hdg Fnds	Hdg Fnds	Cash	Em Mkt	Hdg Fnds
32.4%	7.1%	0.6%	17.5%	25.0%	0.0%	27.8%	18.4%	18.2%	-2.7%	-3.6%	0.5%	9.7%	-4.7%
Dev Intl	US Bonds	Cash	Large Cap	Large Cap	Glb Bond	Dev Intl	Em Mkt	Dev Intl	Hi Yld	US Bonds	Hi Yld	Large Cap	Hi Yld
22.8%	6.0%	0.1%	12.0%	21.8%	-0.9%	22.0%	18.3%	11.3%	-4.5%	-4.7%	-0.7%	7.6%	-11.2%
Hdg Fnds	Hdg Fnds	Hdg Fnds	Em Mkt	Sm/Mid	Hi Yld	Em Mkt	Hdg Fnds	Hdg Fnds	Large Cap	Hi Yld	Sm/Mid	Sm/Mid	US Bonds
9.0%	3.4%	-0.3%	11.2%	16.8%	-2.3%	18.4%	10.9%	6.5%	-4.6%	-10.0%	-2.8%	7.4%	-13.0%
Hi Yld	Hi Yld	Dev Intl	US Bonds	Glb Bond	Hdg Fnds	Hi Yld	Glb Bond	Hi Yld	Sm/Mid	Glb Bond	US Bonds	Glb Bond	Dev Intl
7.4%	2.5%	-0.8%	2.7%	9.3%	-4.0%	14.4%	9.5%	5.4%	-5.8%	-11.4%	-4.8%	6.9%	-14.5%
Cash	Cash	Sm/Mid	Glb Bond	Hdg Fnds	Large Cap	US Bonds	Dev Intl	Cash	Dev Intl	Em Mkt	Large Cap	Hi Yld	Large Cap
0.1%	0.0%	-2.9%	1.9%	7.8%	-4.4%	8.8%	7.8%	0.1%	-5.9%	-11.5%	-4.9%	4.0%	-18.1%
US Bonds	Em Mkt	Hi Yld	Dev Intl	Hi Yld	Sm/Mid	Hdg Fnds	US Bonds	US Bonds	US Bonds	Dev Intl	Glb Bond	Hdg Fnds	Sm/Mid
-2.0%	-2.2%	-4.6%	1.0%	7.5%	-10.0%	8.4%	7.5%	-1.5%	-5.9%	-14.5%	-9.1%	2.4%	-18.4%
Em Mkt	Glb Bond	Glb Bond	Hdg Fnds	US Bonds	Dev Intl	Glb Bond	Hi Yld	Em Mkt	Glb Bond	Large Cap	Dev Intl	US Bonds	Glb Bond
-2.6%	-2.8%	-4.8%	0.5%	3.5%	-13.8%	5.0%	6.2%	-2.5%	-6.5%	-16.1%	-9.4%	1.9%	-19.6%
Glb Bond	Dev Intl	Em Mkt	Cash	Cash	Em Mkt	Cash	Cash	Glb Bond	Em Mkt	Sm/Mid	Em Mkt	Cash	Em Mkt
-4.9%	-4.5%	-14.9%	0.3%	0.9%	-14.6%	2.3%	0.5%	-8.2%	-7.0%	-17.0%	-11.6%	0.9%	-20.1%

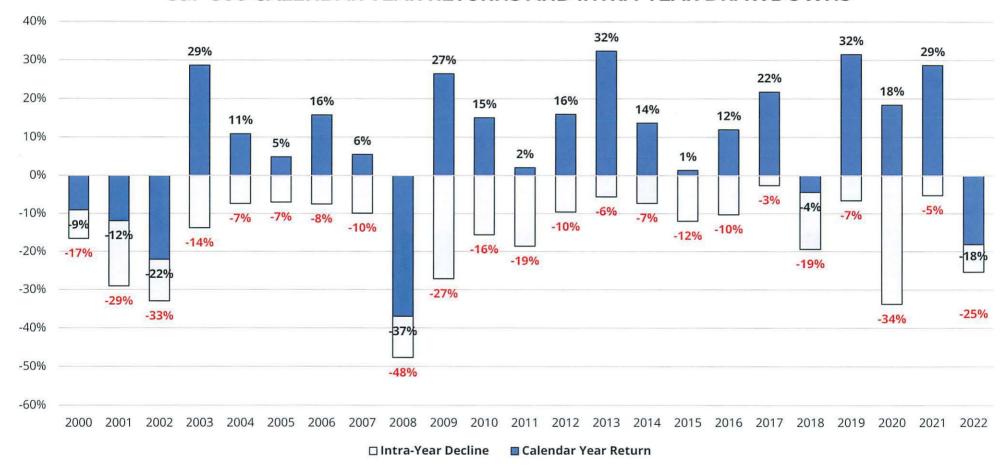
Past performance is not an indicator of future results. Asset classes represented by: Large Cap – S&P 500 Index; Sm/Mid – Russell 2500 Index; Dev Intl – MSCI EAFE Index; Em Mkt – MSCI Emerging Markets Index; Hi Yld – Bank of America Merrill Lynch U.S. High Yield Master II; US Bonds – Barclays Capital U.S. Aggregate; Glb Bond – Barclays Capital Global Treasury ex US; Hdg Fnds – HFRI FOF; Diversified Index; Cash – Merrill Lynch 91-day Tbill . Data as of 12/31/2022.

Source: Morningstar Direct.



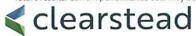
DRAWDOWNS ARE NORMAL

S&P 500 CALENDAR YEAR RETURNS AND INTRA-YEAR DRAWDOWNS

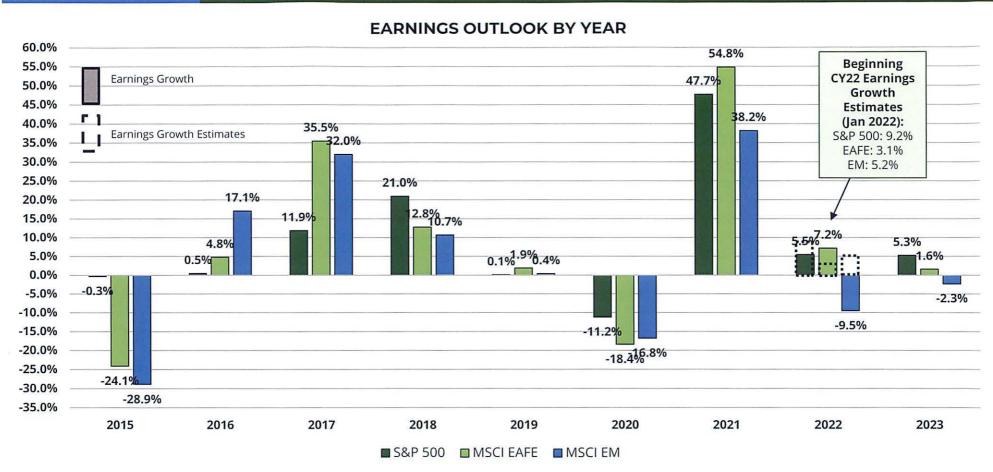


Since 2000: Average Calendar Year Return: +7.9%, Average Intra-Year Drawdown: -16.1%

Source: Clearstead, Bloomberg LP, as of 12/31/2022, Red figures are peak-to-trough largest intra-year decline, Black figures are calendar year total returns. Performance data shown represents past performance. Past performance is not an indicator of future results. Current performance data may be lower or higher than the performance data presented by indices, which cannot be invested in directly.



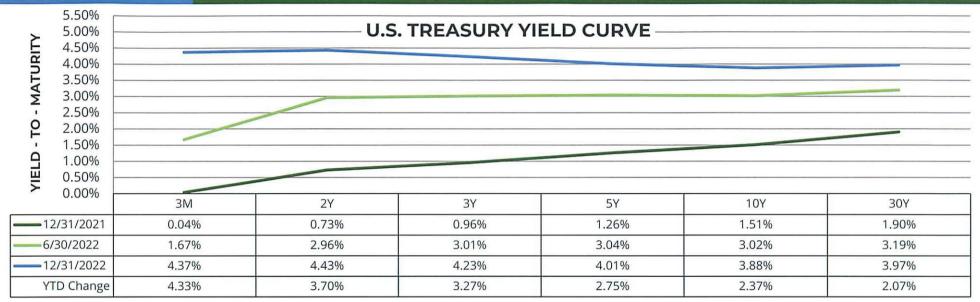
GLOBAL EARNINGS OUTLOOK

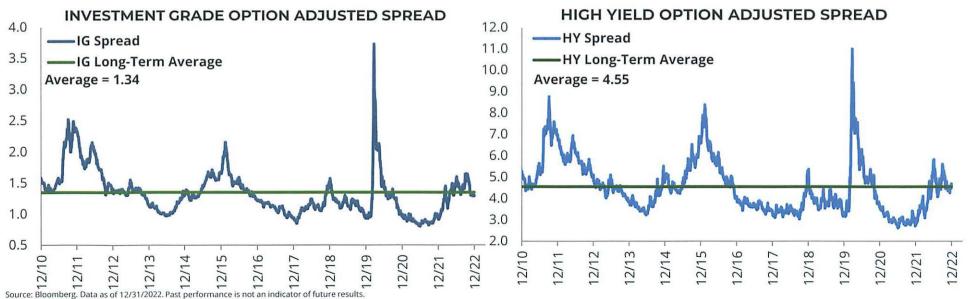


- Earnings expectations are beginning to soften for CY2023 as analysts downgrade their expectations; CY2023 U.S. EPS growth
 estimates have been reduced the least
- Expectations for EM markets have eroded the most in the face of heightened energy costs, global monetary tightening, and the slowdown in the Chinese economy (CY2022 EM earnings ex Russia would be approximately -3%)



FIXED INCOME: YIELD CURVE AND CREDIT SPREADS





MARKETS PERFORMANCE: JANUARY UPDATE

- January was a broadly positive month for risk assets; China and non-U.S. equities surge
- In equity markets, developed international faired best; U.S. small caps led large cap as growth-oriented indices outperformed value indices
- In fixed income, high-yield outperformed
- U.S. rates fell during the month and the yield curve inverted further; U.S. 10-year yield fell from 3.9% to approximately 3.5%—moving about 40bps lower
 - Risk-on rally spurred by narrative of Fed slowing hikes, China re-opening post-COVID-19, and a softlanding narrative gaining momentum

MARKET	Q1	Q2	Q3	Q4	Jan	Trend
S&P 500	-4.6%	-16.1%	-4.9%	7.6%	6.3%	
Russell 2000	-7.5%	-17.2%	-2.2%	6.2%	9.7%	=
MSCI EAFE	-5.9%	-14.5%	-9.4%	17.3%	8.1%	
MSCI EM	-7.0%	-11.5%	-11.6%	9.7%	7.9%	
MSCI China	-14.2%	3.4%	-22.5%	13.5%	11.8%	
MSCI ACWI	-5.3%	-15.5%	-6.7%	9.9%	7.2%	
Bloomberg US Agg Bond	-5.9%	-4.7%	-4.8%	1.9%	3.1%	
Bloomberg High Yield Bond	-4.8%	-9.8%	-0.7%	4.2%	3.8%	
Bloomberg Muni Bond	-6.2%	-2.9%	-3.5%	4.1%	2.9%	





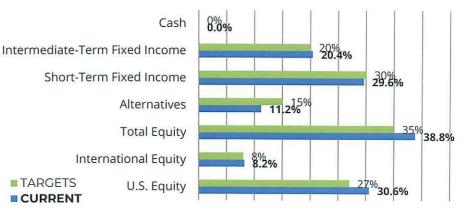
NON-ENDOWMENT ASSETS:
PERFORMANCE & ASSET ALLOCATION
REVIEW

NON-ENDOWMENT PERFORMANCE REVIEW (AS OF 12/31/2022)

				TI	RAILING	PERIOD	os			CAL	ENDAR Y	'EARS	
NON-ENDOWMENT ASSETS	MARKET VALUE (\$MM)	QTD	CYTD	1 YR	2 YR	3 YR	5 YR	7 YR	10 YR	2021	2020	2019	SINCE INCEPTION ⁴
Total Non-Endowment Asset	\$73.026	3.0%	-7.9%	-7.9%	-0.3%	2.8%	3.6%	4.3%	3.8%	7.8%	9.5%	11.5%	3.8%
	Benchmark ¹	2.7%	-4.7%	-4.7%	-0.3%	1.7%	2.6%	3.0%	2.7%	4.3%	5.9%	8.7%	2.9%
Operating & Short-Term Poo	\$13.561	1.0%	1.6%	1.6%	0.8%	0.9%	1.4%	1.1%	0.8%	0.0%	1.1%	2.4%	0.7%
	Benchmark ²	0.8%	1.2%	1.2%	0.6%	0.7%	1.2%	1.0%	0.7%	0.0%	0.8%	2.3%	0.6%
Long-Term Pool	\$59.465	4.4%	-11.3%	-11.3%	-1.5%	1.8%	3.3%	4.5%	4.4%	9.5%	8.8%	15.3%	4.5%
	Benchmark ³	4.2%	-9.7%	-9.7%	-1.3%	2.3%	3.6%	4.6%	4.3%	8.0%	10.0%	14.2%	4.2%

LONG-TERM POOL ASSET ALLOCATION

	CURRENT	TARGETS	RANGE	+/-
U.S. Equity	30.6%	27%	20-35%	3.6%
International Equity	8.2%	8%	0-15%	0.2%
Total Equity	38.8%	35%	25-45%	3.8%
Alternatives	11.2%	15%	0-20%	-3.8%
Short-Term Fixed Income	29.6%	30%	25-45%	-0.4%
Intermediate-Term Fixed Income	20.4%	20%	10-30%	0.4%
Cash	0.0%	0%	0-5%	0.0%



0% 5% 10% 15% 20% 25% 30% 35% 40% 45%

⁴⁾ Inception date for Long-Term and Short-Term Pools: June 2010, Inception Date for Total Non-Endowment Assets: March 2004.



^{1) 45%} BofA Merrill Lynch 91-Day T-Bill / 17% BofA Merrill Lynch US Corp & Gov 1-3 Yrs / 11% BBgBarc US Govt/Credit Int TR / 8% Total Alternatives Benchmark / 15% Russell 3000 / 4% MSCI EAFE. 2) 95% BofA Merrill Lynch 91-Day T-Bill / 5% Barclays 1-3 Yr. Govt.

^{3) 27%} Russell 3000 / 8% MSCI EAFE / 15% Total Alternatives Benchmark / 30% BofA Merrill Lynch US Corp & Gov 1-3 Yrs / 20% BBgBarc US Govt/Credit Int TR.

OPERATING & SHORT-TERM POOL INVESTMENTS

	Ticker	Account Type	Begin Market Value \$	Market Value 12/31/2022	% of Portfolio
Total Operating & Short Term			\$32,360,317	\$13,560,592	100.0
Federated Hermes Government Obligations Fund	GOIXX	Cash	\$32,186,155	\$13,467,679	99.3
JPMorgan 100% U.S. Tr Sec MM Inst	JTSXX	Cash	\$82,258	\$165	0.0
STAR Ohio		Cash	\$91,903	\$92,748	0.7

The market value of the University's Operating & Short-Term Reserve Pool fluctuates quarter-over-quarter with operational cash flow, as depicted above.

Current yields for investments are:

- Federated Hermes Government Obligations Fund: 4.37%
- JPMorgan 100% U.S. Treasury Securities Money Market: 4.27% (residual balance moved into Federated)
- STAR Ohio: 4.89%



LONG-TERM POOL PERFORMANCE REVIEW: JANUARY UPDATE

	Market Value 01/01/2023	Market Value 01/31/2023	% of Pool	1 Mo (%)	1 Yr (%)	3 Yr (%)	5 Yr (%)	Inception (%)	Inception Date
Total University Assets	\$73,034,196	\$95,368,656	100.0	3.2	-2.6	4.0	3.9	4.0	Apr-04
Total Policy Benchmark ¹				2.0	-1.2	2.3	2.8	3.0	
Total Operating & Short Term	\$13,560,592	\$33,560,620	100.0	0.0	1.6	0.8	1.4	0.7	Jul-10
Total Operating & Short Term Benchmark ²				0.3	1.6	0.7	1.3	0.6	
JPMorgan 100% U.S. Tr Sec MM Inst	\$165		0.0	0.3	1.7	0.7	1.1	0.6	Oct-11
90 Day U.S. Treasury Bill				0.3	1.8	0.8	1.3	0.7	
Federated Hermes Government Obligations Fund	\$13,467,679	\$33,467,513	100.0	0.3	1.7	0.6	1.0	1.4	Oct-21
90 Day U.S. Treasury Bill				0.3	1.8	0.8	1.3	1.4	
STAR Ohio	\$92,748	\$93,107	0.0	0.4	2.1	0.9		1.4	Jul-18
90 Day U.S. Treasury Bill				0.3	1.8	0.8	1.3	1.3	
Total Long Term/ Reserves Pool	\$59,473,604	\$61,808,035	100.0	3.9	-4.8	3.2	3.7	4.8	Jul-10
Total Long Term/ Reserves Fund Benchmark ³				3.5	-3.8	3.4	4.0	4.6	
Total Equity	\$23,056,524	\$24,720,671	40.0	7.2	-6.3	9.0	7.6	11.8	Jul-10
Total Domestic Equity	\$18,169,862	\$19,431,624	31.5	6.9	-6.2	10.0	9.1	13.4	Jul-10
Russell 3000 Index				6.9	-8.2	9.5	9.1	13.5	
Vanguard Institutional Index	\$11,773,488	\$12,512,923	20.2	6.3	-8.2	9.9	9.5	13.7	Jul-10
S&P 500 Index				6.3	-8.2	9.9	9.5	13.7	
Vanguard Mid Cap Index Adm	\$3,027,372	\$3,268,152	5.3	8.0	-4.8	9.0	8.0	11.9	Oct-10
Vanguard Mid Cap Index Benchmark				8.0	-4.7	9.0	8.1	11.9	
Loomis Sayles Sm Growth N	\$1,663,983	\$1,794,505	2.9	7.8	-4.1	6.8	8.3	8.0	Sep-19
Russell 2000 Growth Index				9.9	-6.5	4.3	4.7	6.4	
Victory Integrity Small Value Y	\$1,705,019	\$1,856,044	2.9	8.9	4.3	12.9	6.1	10.7	Oct-10
Russell 2000 Value Index				9.5	-0.5	9.9	5.8	9.8	
Total International Equity	\$4,886,661	\$5,289,048	8.5	8.2	-6.9	5.6	2.3	5.1	Oct-10
MSCI EAFE (Net)				8.1	-2.8	4.3	2.1	5.2	
William Blair International Growth I	\$2,142,607	\$2,310,753	3.7	7.8	-12.7	3.9	2.4	6.8	Jul-12
MSCI AC World ex USA (Net)				8.1	-5.7	3.6	1.4	5.6	
Dodge & Cox Internat'l Stock	\$2,744,054	\$2,978,295	4.8	8.5	-1.8	6.5	1.7	5.4	Oct-10
MSCI EAFE (Net)				8.1	-2.8	4.3	2.1	5.2	



LONG-TERM POOL PERFORMANCE REVIEW: JANUARY UPDATE

	Market Value 01/01/2023	Market Value 01/31/2023	% of Pool	1 Mo (%)	1 Yr (%)	3 Yr (%)	5 Yr (%)	Inception (%)	Inception Date
Total Alternatives	\$6,673,244	\$6,797,431	11.0	1.9	-3.5	-0.9	0.1	1.1	Mar-15
Total Alternatives Benchmark⁴				2.5	-0.4	2.6	2.7	2.7	
Weatherlow Offshore Fund I Ltd CI IIA	\$4,471,886	\$4,597,098	7.4	2.8	-2.6	6.9	5.7	-5.1	Jul-21
HFRI Fund of Funds Composite Index				2.5	-0.4	4.4	3.0	-1.2	
H.I.G. Whitehorse Principal Lending Offshore Feeder Fd, L.P.	\$2,201,358	\$2,200,333	3.6	0.0	-	-	-	1.8	Jul-22
Credit Suisse Leveraged Loan Index				2.6	1.1	3.0	3.5	6.2	
Total Fixed Income	\$29,734,356	\$30,279,394	49.0	1.8	-3.9	-0.3	1.6	1.8	Jul-10
Total Fixed Income Benchmark⁵				1.2	-3.4	-0.6	1.2	1.4	
JPMorgan Core Bond	\$4,958,462	\$5,129,364	8.3	3.4	-7.8	-1.8	1.2	0.9	Sep-17
Blmbg. U.S. Aggregate Index				3.1	-8.4	-2.3	0.9	0.6	
YSU Intermediate Term Bond	\$4,220,753	\$4,308,636	7.0	2.1	-4.7	-0.6	1.7	3.1	Apr-04
Blmbg. Intermed. U.S. Government/Credit				1.9	-5.1	-1.1	1.3	2.8	
PGIM High Yield R6	\$2,947,261	\$3,050,095	4.9	3.5	-6.1	1.1	3.2	4.1	Jan-17
Blmbg. U.S. Corp: High Yield Index				3.8	-5.2	1.3	3.0	3.7	
YSU Short Term Bond	\$12,479,880	\$12,590,504	20.4	0.9	-1.7	0.0	1.4	2.1	Apr-04
ICE BofA 1-3 Yr. Gov/Corp				0.8	-2.4	-0.3	1.1	2.0	
Lord Abbett Short Duration Income I	\$5,128,000	\$5,200,795	8.5	1.4	-2.7	0.1	1.6	1.7	Apr-18
ICE BofA 1-3 Yr. Gov/Corp				0.8	-2.4	-0.3	1.1	1.2	
Total Cash & Cash Equivalents	\$9,481	\$10,539	0.0	0.3	2.0	0.7		0.9	Apr-18
90 Day U.S. Treasury Bill				0.3	1.8	0.8	1.3	1.3	
PNC Govt MMkt	\$9,481	\$10,539	0.0	0.4	1.9	0.7	-	-	Apr-18
90 Day U.S. Treasury Bill				0.3	1.8	0.8	1.3	1.3	

^{*}Blmbg. Intermed. U.S. Government/Credit: 36.00%, ICE BofA 1-3 Yr. Gov/Corp: 64.00%,



¹⁹⁰ Day U.S. Treasury Bill: 45.00%, Russell 3000 Index: 15.00%, Blmbg. Intermed. U.S. Government/Credit: 11.00%, MSCI EAFE (Net): 4.00%, ICE BofA 1-3 Yr. Gov/Corp: 17.00%, Total Alternatives Benchmark: 8.00%,

²⁹⁰ Day U.S. Treasury Bill: 95.00%, Blmbg. 1-3 Govt: 5.00%,

Russell 3000 Index: 27.00%, Blmbg. Intermed. U.S. Government/Credit: 20.00%, MSCI EAFE (Net): 8.00%, ICE BofA 1-3 Yr. Gov/Corp: 30.00%, Total Alternatives Benchmark: 15.00%, HFRI Fund of Funds Composite Index: 100.00%,

clearstead

REAL ASSETS: INFRASTRUCTURE MANAGER RECOMMENDATION

EXECUTIVE SUMMARY

RECOMMENDATION: Clearstead recommends a \$2.75 million commitment to the Apollo Infrastructure Opportunities Fund III in the Long-Term Pool.

WHY INVEST IN APOLLO INFRASTRUCTURE OPPORTUNITIES?

- Established Market Leader
- Deep Team & Resources
- Disciplined Process and Robust Platform
- Track Record of Results



EXECUTIVE SUMMARY

EXECUTIVE SUMMARY

Apollo Global Management has launched its third infrastructure fund that will continue its value-oriented strategy investing in companies that provide essential services with high barriers to entry in the US and Europe, targeting 15-18% gross IRR (11-14% net) and 4-6% cash yield. The fund expects to capitalize on several key investment themes, such as global energy transition, digital infrastructure, global supply chain and sustainable living, targeting 10-15 equity investments between \$100 million and \$1 billion. The Infrastructure team of 23 dedicated professionals led by Dylan Foo has delivered 26% gross IRR (20% net) across Funds I and II with a 0% loss ratio, committing ~\$3 billion to 26 deals. All prior transactions were sourced via bilateral or proprietary negotiations.

REASONS WE LIKE APOLLO INFRASTRUCTURE OPPORTUNITIES FUND III:

- Flexible strategy with downside protection the fund will apply its full arsenal to value creation: 1) buyout strategy seeking infrastructure companies providing essential services, with high barriers to entry and stable or contracted cash flows; 2) below-the-radar or misunderstood corporate carve-outs; or 3) structured solutions (mezzanine, preferred equity) in complex transactions taking advantage of market dislocation or regulatory change.
- Focus on downside protection the base case projections of 1.6x multiple is based on contractual payments and operational improvements and does not rely on multiple expansion.
- Highly specialized team with deep resources of Apollo's platform Dylan Foo, a 22-year industry veteran is supported by a team of 8 partners and 13 investment professionals. The IC includes heads of PE and Credit.
- Focus on mid-market transactions in this current environment smaller deals are less competitive and are easier to finance.
- Attractive market opportunity secular trends such as population growth and improvement of living standards, as well as
 aging of existing infrastructure, and replacing of legacy infrastructure and build out of networks, data centers, towers and
 similar assets creates an estimated annual need for infrastructure investment of \$4.4 trillion (until 2040) based on the
 McKinsey Global Institute 2022 report.



APOLLO INFRASTRUCTURE OPPORTUNITIES FUND III: MARKET LEADING INFRASTRUCTURE PLATFORM

AIOF I (2018)

Total Commitments: \$897.3mm

MOIC: 1.6x Gross / 1.5x Net

IRR: 25% Gross / 19% Net

Substantially Realized; 127% of Invested Capital

Highlights

Top-quartile performance⁵

Strong realizations to date; focused on returning capital to LPs

Downside-oriented underwriting, active value creation and opportunistic capital management

AIOF II (20201)

Total Commitments: \$2.5bn

MOIC: 1.3x Gross / 1.2x Net

IRR: 28% Gross / 23% Net

~85% Invested or Committed2

Highlights

Diversified across core sectors (Renewables, Communications, Transportation)

Signed or closed 12 proprietary investments ~2 years into the AIOF II fund life

Actively executing on co-invest, ~\$2.5 billion originated to date with significant pipeline ahead

AIOF III (2023)

Target Portfolio: 10-15 investments

Target Equity Investment: \$100 million - \$1 billion

Target IRR: 15-18% gross; 11-14% implied net3

Target Cash Yield: 4-6%4

Highlights

SFDR Article 8

Strong economic alignment

Mid-Market | Value-Oriented | OECD Focus

Source: Apollo. As of September 30, 2022, unless otherwise noted. Represents the views and opinions of Apollo Analysts. Subject to change at any time without notice. Past performance is not indicative nor a guarantee of future results. These returns are not indicative of actual returns received by any fund investor. (1) AIOF II's first investments when and as deployment occurs. (3) Based on hypothetical model of AIOF III which assumes a 1.5% management fee, 20% carried interest, deployment over 4 years and realizations in 9 years. Please refer to the Legal Disclaimer for additional information regarding target returns. (4) Target represents ITD average over the life of AIOF II, as so determined, by dividing numerator (x) investment proceeds received by the fund on a trailing twelve-month basis, excluding dispositions, by denominator (y) weighted average capital of the investments made by the fund, inclusive of any outstanding balance on the fund's credit facility. (5) Source: Cambridge Associates Benchmark Calculator via Refinitiv, utilizing Preliminary Q2 2022 data (latest available). Top-quartile performance claim measured on the basis of AIOF I net performance vs. Refinitiv data. AIOF I is a top-quartile fund when compared to the relevant benchmark, which includes 8 global core/core-plus, value added and opportunistic infrastructure funds with a 2018 vintage; upper-quartile threshold net IRR is 16.52% vs. AIOF I's net IRR of 19.19% as of September 30, 2022. Please refer to the end of this presentation for AIOF I and AIOF I is AIOF I is Chedule of investments.



APOLLO INFRASTRUCTURE OPPORTUNITIES FUND III: DISTINCT VALUE ORIENTATION WITHIN INFRASTRUCTURE

	THEMATIC INVESTING "TOP-DOWN, TREND DRIVEN"	APOLLO INFRASTRUCTURE "BOTTOM-UP, VALUE DRIVEN"
Asset Type	 Highly-regulated assets with no value-add Greenfield development projects with unmitigated development risk Operating companies with little / no hard assets 	 Essential services with high barriers to entry Development projects and platforms with structured features mitigating downside Brownfield assets and platforms with expansion opportunity
Contracts	 Direct consumer exposure / merchant cash flows Commodity exposure / weak inflation correlation Highly regulated / counterparty risk 	 Full or partial, long-term contracts Inflation-linked cash flows Off-takers with high credit quality
Investment Type	 Concessions with limited ability to add operational value creation Simple coupon-based debt instruments without governance Common equity investments with highly leveraged capital structures and unlimited downside 	 Equity buyouts via platform plays and corporate carve-outs Preferred equity and loans with upside participation Bespoke structured investments with downside protection

Source: Apollo. As of December 2022. Reflects the views and opinions of Apollo Analysts, which are subject to change at any time without notice. There is no guarantee that investment opportunities of the investment type and with the underlying asset characteristics described above will be available in the future or achieve return targets.



APOLLO INFRASTRUCTURE OPPORTUNITIES FUND III: DOWNSIDE-PROTECTED INVESTMENT STRATEGY

EQUITY BUYOUTS

Applying Apollo's value creation experience to infrastructure assets seeking to generate upside through operational enhancement

- Majority or leading stakes in traditional infrastructure assets
- Proactive approach to value creation; ability to leverage our operating expertise to drive value and enhance performance
- Platforms and consolidation opportunities
- High-quality assets / essential service businesses with stable and/or contracted cash flows

SELECT EXAMPLE TRANSACTIONS





CORPORATE CARVE OUTS

Leverage Apollo's historical track record and proprietary skillset to execute complex carve-outs

- Bilateral negotiations with a larger corporate parent to extract a business or create a standalone enterprise
- Seek to uncover below-the-radar or misunderstood opportunities that are undervalued by the market
- Potential to achieve higher returns than typical brownfield assets

SELECT EXAMPLE TRANSACTIONS







STRUCTURED SOLUTIONS

Leveraging Apollo's structuring experience to pursue attractive investments across the capital structure in dislocated markets

- Mezzanine and hold co loan structures; preferred and structured equity
- Ability to add further downside protection
- Pursue opportunities resulting from market dislocation or regulatory change
- Positions Apollo as a solutions provider to

SELECT EXAMPLE TRANSACTIONS









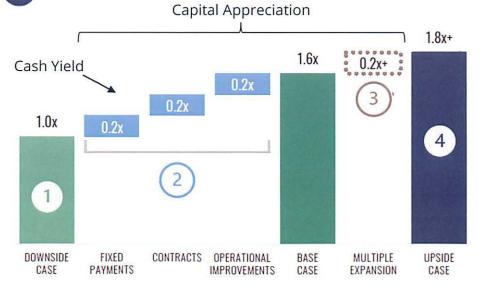
Source: Apollo. As of December 2022. Based on the views and opinions of Apollo Analysts. Subject to change at any time without notice. Investment examples have been provided for discussion purposes only to illustrate the types of investments that AIOF II would target. There is no guarantee that similar investment opportunities will become available in the future or, if available, achieve target returns. Please refer to AIOFII's Schedule of Investments for a full list of Fund investments



APOLLO INFRASTRUCTURE OPPORTUNITIES FUND III: CONSERVATIVE UNDERWRITING WITH TWO SOURCES OF RETURN

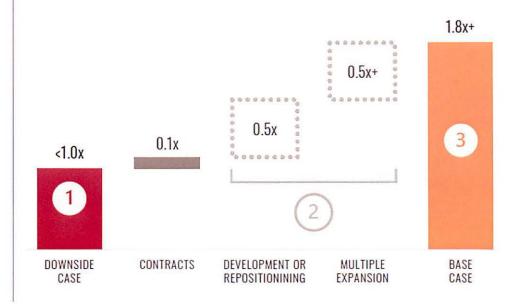
APOLLO'S ILLUSTRATIVE APPROACH TO INFRASTRUCTURE UNDERWRITING

- 1 Investments return cost even in downside and stress cases
- Balanced returns contribution from structural features (e.g., fixed payments), contracts, and moderate operational enhancements
- Minimal upside attributed to multiple expansion
- 4 Structurally trade some upside for narrower band of outcomes



COMPARISON ILLUSTRATIVE APPROACH TO INFRASTRUCTURE UNDERWRITING

- Return below invested cost in downside and stress cases
- Underwritten returns driven by development or repositioning and appreciation or multiple expansion
- "Opportunistic" returns underwritten in the base case



For illustrative purposes only. Based on the views and opinions of Apollo Analysts. "Apollo's Illustrative Approach to Infrastructure Underwriting" is premised upon our infrastructure investment principles, including without limitation the prioritization of capital preservation through structural protections and fixed payments, contracted cash flows and operational improvements (e.g., capital structure optimization and EBITDA growth) as key sources of value creation. "Peers' Illustrative Approach to Infrastructure Underwriting" refers generally to a selection of large-cap infrastructure firms of generally similar size and scale that Apollo deems peers. There is no guarantee market conditions, the market environment, or the themes described herein will continue in the future. Such estimates and assumptions are subject to factors beyond Apollo's control and are subject to change at any time. Please refer to the Legal Disclaimer page for important information on the calculation of creation multiples. Illustrative, hypothetical, and/or target returns presented herein are gross and do not reflect the deduction of taxes, fees and expenses. Actual returns will be lower. Future results may vary substantially.



APOLLO INFRASTRUCTURE OPPORTUNITIES FUND III: PERFORMANCE TRACK RECORD

APOLLO INFRASTRUCTURE OPPORTUNITIES											
Fund (Vintage)	Fund Size (\$ mm)	Invested (\$ mm)	Realized (\$ mm)	NAV (\$ mm)	DPI	Gross MOIC	Net MOIC	Peer Quartile	Gross IRR	Net IRR	Peer Quartile
Fund I (2018)	\$897	\$802.4	\$1,022.2	\$248.6	1.27x	1.6x	1.5x	1 st	25.0%	19.0%	1 st
Fund II (2020)	\$2,500	\$920.7	\$29.8	\$1,134.6	0.03x	1.3x	1.2x	1 st	28.0%	23.0%	1 st



APOLLO INFRASTRUCTURE OPPORTUNITIES FUND III: KEY TERMS

REPRESENTATIVE TE	ERMS FOR THE FUND
Fund	Apollo Infrastructure Opportunities Fund III
Minimum Investment	\$10 million, though Clearstead negotiated to have this waived for clients
Fund Size	\$4-5 billion
Target Return	15-18% gross IRR (11-14% net IRR) with 4-6% cash yield
Management Fee	1.5% of commitments during the Commitment Period, stepping down to 1.25% of adjusted cost after
Preferred Return	8% per annum
Carried Interest	20% in the Fund
Investment Period	5 years from the later of the effective date and final closing of the Fund
Fund Term	10 years from final close + 2 one-year extensions with LPAC consent
Catch Up	80%
Fee & Expense Offset	100%
Organization Expenses	\$6 million
GP Commitment	2.5% or at least \$100 million
Waterfall	American





PORTFOLIO RECOMMENDATIONS (ACTION)

YOUNGSTOWN STATE UNIVERSITY AS OF FEBRUARY 17, 20										
	TICKER	INVESTMENT STRATEGY	MARKET VALUE (CURRENT)	% OF PORTFOLIO	CHANGES	MARKET VALUE (POST CHANGES)	% OF PORTFOLIO	POLICY TARGET	POLICY RANGE	TACTICAL +/-
Total Operating & Short Term			\$33,606,554	100.0%	\$0	\$33,606,554	100.0%	100.0%		11/2/2
Operating Assets			\$33,606,554	100.0%		\$33,606,554	100.0%		60-100%	
Federated Hermes Govt Obligations	FOGXX	Money Market	\$33,515,148	99.7%		\$33,515,148	99.7%			
Star Plus*	-	Cash Equivalent	\$0	0.0%		\$0	0.0%			
Star Ohio*		Cash Equivalent	\$91,406	0.3%		\$91,406	0.3%			
Short-Term Assets		- 1	\$0	0.0%		\$0	0.0%		0-40%	
Vanguard Short-Term Federal Adm	VSGDX	Short-Term Fixed	\$0	0.0%		\$0	0.0%		NAMES OF STREET	
Total Long Term Reserves Pool			\$61,473,407	100.0%	\$0	\$61,473,407	100.0%	100.0%	N MARKET	
Domestic Equity			\$19,520,552	31.8%		\$18,720,552	30.5%	27.0%	20-35%	3.5%
Large Cap			\$12,537,44	9 20.4%		\$12,267,449	20.0%			
Vanguard Instl Index	VINIX	Large Cap Core	\$12,537,449	20.4%	-\$270,000	\$12,267,449	20.0%			
Small/Mid Cap			\$6,983,103	3 11.4%		\$6,453,103				
Vanguard Mid Cap Index Adm	VIMAX	Mid-Cap Core	\$3,276,186	5.3%	-\$180,000	\$3,096,186	5.0%			
Loomis Sayles Small Growth N2	LSSNX	Small Cap Growth	\$1,819,105	3.0%	-\$140,000	\$1,679,105	2.7%			
Victory Integrity Small Cap Value Y	VSVIX	Small Cap Value	\$1,887,811	3.1%	-\$210,000	\$1,677,811	2.7%			
International Equity			\$5,256,046	8.6%		\$5,056,046	8.2%	8.0%	0-15%	0.2%
William Blair International Growth I	BIGIX	Foreign Growth	\$2,305,758	3.8%		\$2,305,758	3.8%			
Dodge & Cox International Stock	DODFX	Foreign Value	\$2,950,288	4.8%	-\$200,000	\$2,750,288	4.5%			
Total Equity			\$24,776,598	40.3%		\$23,776,598	38.7%	35.0%	25-45%	3.7%
Alternatives			\$6,797,431	11.1%		\$6,797,431	11.1%	<u>15.0%</u>	0-20%	-3.9%
H.I.G. Principal Lending Fund*	7.	Private Credit	\$2,200,333	3.6%		\$2,200,333	3.6%			
Apollo Infrastructure Opps Fund III		Real Assets	\$0	0.0%		\$0	0.0%			
Weatherlow Fund*	-	Hedge FoF	\$4,597,098	7.5%		\$4,597,098	7.5%			
Fixed Income			\$29,899,133	48.6%		\$30,899,133	50.3%	50.0%	35-75%	0.3%
Short Term Fixed Income			\$17,644,41	3 28.7%		\$18,644,413	30.3%	30.0%	25-45%	0.3%
YSU Short Term Bond	(4)	Short-Term Fixed	\$12,470,282	20.3%		\$12,470,282	20.3%			
Lord Abbett Short Duration	LLDYX	Short-Term Fixed	\$5,174,131	8.4%	\$1,000,000	\$6,174,131	10.0%			
Intermediate Fixed Income			\$12,254,72	1 19.9%	A	\$12,254,721	19.9%	20.0%	10-30%	-0.1%
JPMorgan Core Bond Fund R6**	JCBUX	Core Plus Fixed	\$5,040,843	8.2%	T	\$5,040,843	8.2%			
YSU Intermediate Term Fixed	S=2	Interm-Term Fixed	\$4,229,094	6.9%	/	\$4,229,094	6.9%			
Prudential High Yield Bond R6	PHYQX	High Yield	\$2,984,783	4.9%		\$2,984,783	4.9%			
Cash & Cash Equivalents			\$245	0.0%		\$245	0.0%	0.0%	0-5%	0.0%
Equity Account Cash	(200)	Money Market	\$245	0.0%		\$245	0.0%			
Total University Assets			\$95,079,961			\$95,079,961		10 - 12 - 14 - 15 - 15 - 15 - 15 - 15 - 15 - 15		

^{*}As of 01/31/2023.

Why Lord Abbett? Lord Abbett has a significant yield advantage over the other short-term fixed income investment – the (PNC) short-term bond portfolio – which is primarily held by the University to satisfy ORC requirements. Lord Abbett's yield of \sim 6.2% (as of 12/31) is an attractive rate for short-term bond exposure.



^{**}Held at JPMorgan.





ENDOWMENT ASSETS:
PERFORMANCE & ASSET ALLOCATION
REVIEW

ENDOWMENT ASSETS: PERFORMANCE & ASSET ALLOCATION (AS OF 12/31/2022)

						TRAIL	ING PER	RIODS			CALE	NDAR Y	'EARS	
ENDOWMENT ASSETS	MARKET VALUE (\$MM)	ASSET ALLOCATION	COMPOSITION	QTD	CYTD	1 YR	2 YR	3 YR	5 YR	7 YR	2021	2020	2019	SINCE INCEPTION ³
YSU Endowment Fund	\$13.356	67% Equity / 3% Alts / 30% Fixed Income & Cash	Stocks, Bonds, Mutual Funds	5.5%	-15.7%	-15.7%	1.0%	5.8%	6.9%	8.2%	20.9%	16.3%	23.8%	7.9%
			Benchmark ¹	6.2%	-16.6%	-16.6%	0.3%	5.3%	7.3%	9.0%	20.6%	16.2%	25.6%	9.3%
			Benchmark ²	5.4%	-15.8%	-15.8%	-1.2%	3.8%	6.0%	7.4%	15.9%	14.7%	22.2%	7.7%

COMPLIANCE

Asset Allocation Guidelines: 70% Equities (60-80%) / 30% Cash & Fixed Income (20-40%) (IN COMPLIANCE)

HOLDINGS

- Equity Mutual Funds 12% (4 Mutual Funds & ETFs)
- Stocks 55% (30-60 U.S. Large/Mid-Cap Stocks)
- Alternatives 3% (Real Estate Mutual Fund)
- Fixed Income Mutual Funds 2% (Federated Total High Yield)
- Individual Bonds 19% (8-12 Individual Bonds: U.S. Corporate / Gov't / Asset Backed Debt)
- Cash 9%





U.S. ECONOMIC PROJECTIONS

FEDERAL RESERVE BOARD MEMBERS & BANK PRESIDENTS

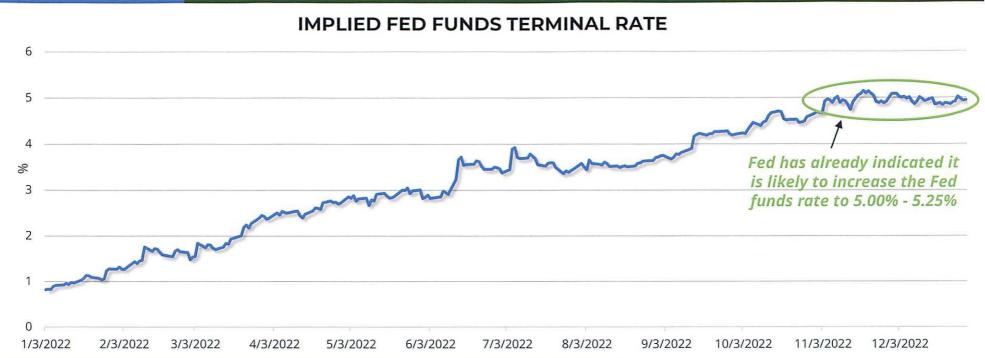
		2022	2023	2024	2025	LONGER RUN*
GDP	December 2022 September 2022 June 2022 March 2022	0.5% 0.2% 1.7% 2.8%	0.5% 1.2% 1.7% 2.2%	1.6% 1.7% 1.9% 2.0%	1.8% 1.8%	1.8% 1.8% 1.8% 1.8%
Unemployment Rate	December 2022 September 2022 June 2022 March 2022	3.7% 3.8% 3.7% 3.5%	4.6% 4.4% 3.9% 3.5%	4.6% 4.4% 4.1% 3.6%	4.5% 4.3%	4.0% 4.0% 4.0% 4.0%
Core PCE Inflation	December 2022 September 2022 June 2022 March 2022	4.8% 4.5% 4.3% 4.1%	3.5% 3.1% 2.7% 2.6%	2.5% 2.3% 2.3% 2.3%	2.1% 2.1%	
Federal Funds Rate	December 2022 September 2022 June 2022 March 2022	4.4% 4.4% 3.4% 1.9%	5.1% 4.6% 3.8% 2.8%	4.1% 3.9% 3.4% 2.8%	3.1% 2.9%	2.5% 2.5% 2.5% 2.4%
# of implied 25 bps rate changes year	December 2022 September 2022 June 2022 March 2022	17 17 13 7	3 1 2 3	-4 -3 -2 0	-4 -4	

^{*}Longer-run projections: The rates to which a policymaker expects the economy to converge over time – maybe in five or six years – in the absence of further shocks and under appropriate monetary policy.





MARKETS PRICING IN POTENTIAL FED ACTIONS



FED MEETING	IMPLIED RATE HIKES	PREDICTED FED FUNDS RATE
Jun-2022	+75 bps (actual)	1.50% - 1.75%
Jul-2022	+75 bps (actual)	2.25% - 2.50%
Sep-2022	+75 bps (actual)	3.00% - 3.25%
Nov-2022	+75 bps (actual)	3.75% - 4.00%
Dec-2022	+50 bps (actual)	4.25% - 4.50%
Feb-2023	+25 bps (implied)	4.50% - 4.75% (estimate)

Markets are anticipating two additional 25 basis point hikes in the first half of 2023

Markets are also pricing in an interest rate cut in the second half of 2023

Source: Bloomberg LP, Clearstead, daily data as of 12/31/2022.



INFLATION TRENDS LOWER

GLOBAL HEADLINE CPI - YEAR-OVER-YEAR % CHANGE

	J an-21	Feb-21	Mar-21	Apr-21	May-21	J un-21	J ul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	J an-22	Feb-22	Mar-22	Apr-22	May-22	J un-22	J ul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22
Dev. Markets								50								***	- T		2	20 70				
US	1.4	1.7	2.6	4.2	5.0	5.4	5.4	5.3	5.4	6.2	6.8	7.0	7.5	7.9	8.5	8.3	8.6	9.1	8.5	8.3	8.2	7.7	7.1	6.5
EU	0.9	0.9	1.3	1.6	2.0	1.9	2.2	3.0	3.4	4.1	4.9	5.0	5.1	5.9	7.5	7.5	8.1	8.6	8.9	9.1	10.0	10.7	10.0	9.2
J apan	-0.7	-0.5	-0.4	-1.1	-0.8	-0.5	-0.3	-0.4	0.2	0.1	0.6	0.8	0.5	0.9	1.2	2.5	2.5	2.4	2.6	3.0	3.0	3.7	3.8	3.8
UK	0.7	0.4	0.7	1.5	2.1	2.5	2.0	3.2	3.1	4.2	5.1	5.4	5.5	6.2	7.0	9.0	9.1	9.4	10.1	9.9	10.1	11.1	10.7	10.7
Canada	1.0	1.1	2.2	3.4	3.6	3.1	3.7	4.1	4.4	4.7	4.7	4.8	5.1	5.7	6.7	6.8	7.7	8.1	7.6	7.0	6.9	6.9	6.8	6.8
Austrailia	0.9	0.9	1.1	1.1	1.1	3.8	3.8	3.8	3.0	3.0	3.0	3.5	3.5	3.5	5.1	5.1	5.1	6.1	6.1	6.1	7.3	7.3	7.3	7.3
Switzerland	-0.5	-0.5	-0.2	0.3	0.6	0.6	0.7	0.9	0.9	1.2	1.5	1.5	1.6	2.2	2.4	2.5	2.9	3.4	3.4	7.3	7.2	7.2	7.2	7.2
Norway	2.5	3.3	3.1	3.0	2.7	2.9	3.0	3.4	4.1	3.5	5.1	5.3	3.2	3.7	4.5	5.4	5.7	6.3	6.8	3.5	3.3	3.0	3.0	2.8
Sweden	1.6	1.4	1.7	2.2	1.8	1.3	1.4	2.1	2.5	2.8	3.3	3.9	3.7	4.3	6.0	6.4	7.3	8.7	8.5	8.9	10.0	10.1	8.9	8.7
Asia	1	200	100	1202	7,027		11/30	78161	275	Tex	新田	- W. T. S. T. S.	22	321	TEST					10.00				
China	Carrier	-0.2	0.4	0.9	1.3	1.1	1.0	0.8	0.7	1.5	2.3	1.5	0.9	0.9	1.5	2.1	2.1	2.5	2.7	2.5	2.8	2.1	1.6	1.8
India		0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	4.5	4.8	5.6	5.8	5.0	5.4	6.3	7.0	6.2	5.8	5.9	6.5	6.1	6.1	5.4
Indonesia	1000	1.4	1.4	1.4	1.7	1.3	1.5	1.6	1.6	1.7	1.7	1.9	2.2	2.1	2.6	3.5	3.6	4.4	4.9	4.7	6.0	5.7	5.4	5.5
Malaysia		0.1	1.7	4.7	4.4	3.4	2.2	2.0	2.2	2.9	3.3	3.2	2.3	2.2	2.2	2.3	2.8	3.4	4.4	4.7	4.5	4.0	4.0	4.0
S Koreas	A COUNTY OF	1.4	1.9	2.5	2.6	2.4	2.6	2.6	2.4	3.2	3.8	3.7	3.6	3.7	4.1	4.8	5.4	6.0	6.3	5.7	5.6	5.7	5.0	5.0
Taiwan	-0.2	1.4	1.2	2.1	2.5	1.8	1.9	2.3	2.6	2.6	2,9	2.6	2.8	2.3	3,3	3.4	3.4	3.6	3.4	2.7	2,8	2.7	2.4	2.7
Latin America		F.3	61	r 0	0.1	0.4	0.0	0.7	10.2	10.7	10.7	10.1	10.4	10 5	11.2	101	117	110	10.1	0.7	7.3	CF	F 0	Ε0
Brazil		5.2	6.1	6.8	8.1	8.4	9.0	9.7	10.3	10.7	10.7	10.1	10.4	10.5	11.3	12.1	11.7	11.9	10.1	8.7	7.2	6.5	5.9	5.8
Chile		2.8	2.9	3.3	3.6	3.8	4.5	4.8	5.3	6.0	6.7	7.2	7.7	7.8	9.4	10.5	11.5	12.5	13.1	14.1	13.7	12.8	13.3	12.8
Colombia	10000	1.6	1.5	2.0	3,3	3.6	4.0	4.4	4.5	4.6	5.3	5.6	6.9	8.0	8.5	9.2	9.1	9.7	10.2	10.8	11.4	12.2	12.5	13.1
Mexico	3.5	3.8	4.7	6.1	5.9	5.9	5.8	5.6	6.0	6.2	7.4	7.4	7.1	7.3	7.5	7.7	7.7	8.0	8.2	8.7	8.7	8.4	7.8	7.8

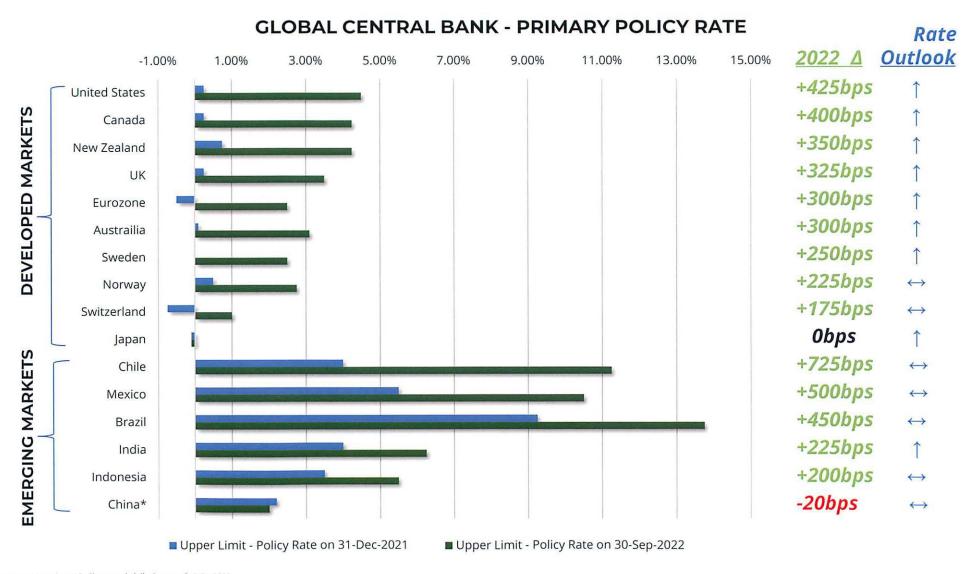
Energy and food prices, supply chain disruptions, and widespread labor market tightness has pushed inflation up globally

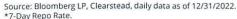
- o Only China, and to a lesser extent Taiwan, have seen negligible rises in inflation
- o Brazil has started to see a meaningful decline in inflation

Bloomberg Inflation Monitor as of 12/31/2022.



GLOBAL MONETARY CONDITIONS TIGHTEN







GLOBAL ECONOMY: SLOWING GROWTH

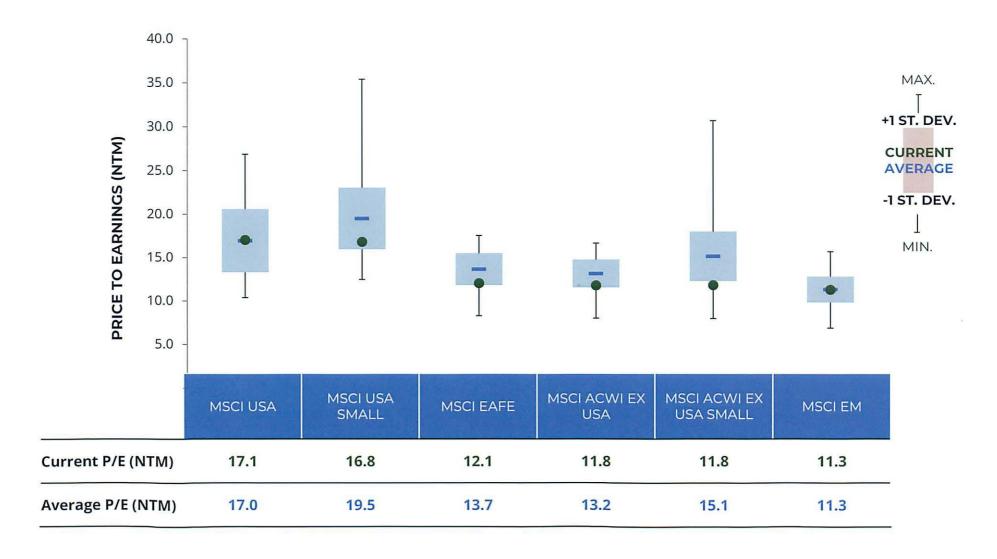
		Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	12M Trend
Clabal	Mfg	53.2	53.7	52.9	52.3	52.3	52.2	51.1	50.3	49.8	49.4	48.8	48.6	
Global	Serv	51.0	54.0	53.4	52.1	51.9	53.9	51.1	49.2	50.0	49.2	48.1	48.1	~~~
110	Mfg	55.5	57.3	58.8	59.2	57.0	52.7	52.2	51.5	52.0	50.4	47.7	46.2	~
US	Serv	51.2	56.5	58.0	55.6	53.4	52.7	47.3	43.7	49.3	47.8	46.2	44.4	~
Гимолоро	Mfg	58.7	58.2	56.5	55.5	54.6	52.1	49.8	49.6	48.4	46.4	47.1	47.8	~
Eurozone	Serv	51.1	55.5	55.6	57.7	56.1	53.0	51.2	49.8	48.8	48.6	48.5	49.1	
UK	Mfg	57.3	58.0	55.2	55.8	54.6	52.8	52.1	47.3	48.4	46.2	46.5	45.3	~~
UK	Serv	54.1	60.5	62.6	58.9	53.4	54.3	52.6	50.9	50.0	48.8	48.8	50.0	~
lanan	Mfg	55.4	52.7	54.1	53.5	53.3	52.7	52.1	51.5	50.8	50.7	49.0	48.8	~
Japan	Serv	47.6	44.2	49.4	50.7	52.6	54.0	50.3	49.5	52.2	53.2	50.3	51.7	~~~
China	Mfg	49.1	50.4	48.1	46.0	48.1	51.7	50.4	49.5	48.1	49.2	49.4	49.0	~~~
China	Serv	51.4	50.2	42.0	36.2	41.4	54.5	55.5	55.0	49.3	48.4	46.7	48.0	~~
India	Mfg	54.0	54.9	54.0	54.7	54.6	53.9	56.4	56.2	55.1	55.3	55.7	57.8	~~~
India	Serv	51.5	51.8	53.6	57.9	58.9	59.2	55.5	57.2	54.3	55.1	56.4	56.4	~~
S. Korea	Mfg	52.8	53.8	51.2	52.1	51.8	51.3	49.8	47.6	47.3	48.2	49.0	48.2	~

Global manufacturing and service PMIs have moved lower in Q4 in every major economy; and in most cases are now consistent with slightly negative real GDP growth in the first half 2023.

- U.S. PMIs have weakened in Q4 and are consistent with little-to-no real GDP growth
- European PMIs are consistent with a mild recessionary environment; Asian manufacturing PMIs are signaling a stark slowdown in global trade and only India's PMI readings suggest healthy GDP growth
- o China's PMI faltered as COVID-19 cases surged in Nov/Dec 2022, but may rebound in the first quarter as cases subside



GLOBAL EQUITY VALUATIONS

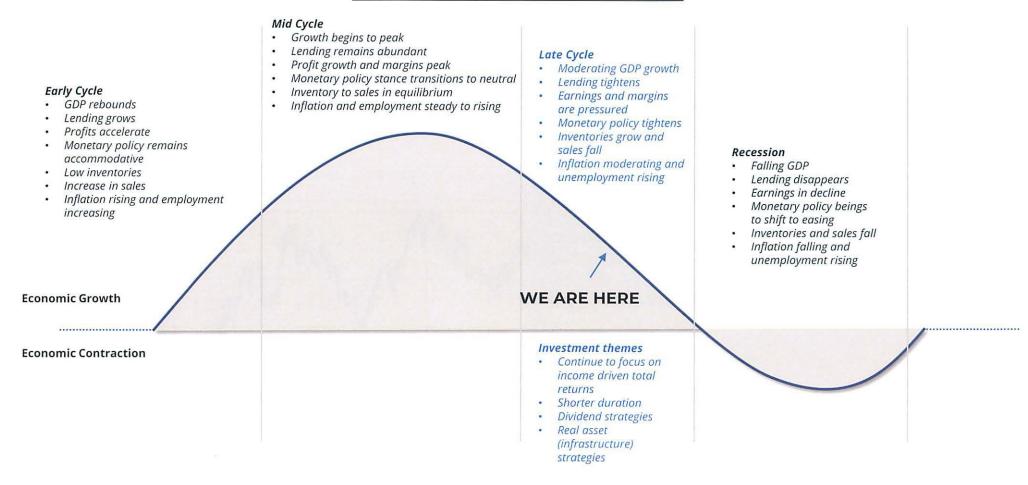






THE BUSINESS CYCLE: U.S. CURRENT ECONOMIC STATE

PHASES OF THE BUSINESS CYCLE





S&P 500 INDEX: 2023 OUTLOOK





EXECUTIVE SUMMARY

				4th	
	Market Value 10/01/2022	Market Value 12/31/2022	% of Portfolio	Quarter 2022 (%)	YTD (%)
otal University Assets	\$89,300,805	\$73,025,390	100.0	3.0	-7.9
Total Policy Benchmark ¹				2.7	-4.7
Total Operating & Short Term	\$32,360,317	\$13,560,592	18.6	1.0	1.6
Total Operating & Short Term Benchmark ²				0.8	1.2
Total Long Term/ Reserves Pool	\$56,940,489	\$59,464,798	81.4	4.4	-11.3
Total Long Term/ Reserves Fund Benchmark ³				4.2	-9.7
Total Domestic Equity	\$16,768,025	\$18,169,862	24.9	8.4	-17.7
Russell 3000 Index				7.2	-19.2
Total International Equity	\$4,268,936	\$4,886,661	6.7	14.5	-17.6
MSCI EAFE (Net)				17.3	-14.5
Total Alternatives	\$6,384,402	\$6,673,675	9.1	1.4	-7.4
Total Alternatives Benchmark				1.8	-5.2
Total Fixed Income	\$29,518,874	\$29,734,356	40.7	1.4	-6.7
Total Fixed Income Benchmark⁴				1.1	-5.4
Total Cash & Cash Equivalents	\$252	\$244	0.0	16.7	17.3
90 Day U.S. Treasury Bill				0.8	1.5

⁴⁾ Total Alternatives Benchmark: 100% HRRI Fund of Funds Composite.
5) Total Fixed Income Benchmark: 64% ICE BofA 1-3 Yr US Corp & Govt / 36% BBgBarc US Govt/Credit Int.



¹⁾ Total Policy Benchmark: 45% ICE BofA 91 Days T-Bills / 17% ICE BofA 1-3 Yr US Corp & Govt / 11% BBgBarc US Govt/Credit Int / 8% Total Alternatives Benchmark / 15% Russell 3000 / 4% MSCI EAFE.
2) Total Operating & Short-Term Benchmark: 95% ICE BofA 91 Days T-Bills / 5% BBgBarc US Govt 1-3 Yr.
3) Total Long-Term / Reserves Fund Benchmark: 27% Russell 3000 / 8% MSCI EAFE / 15% Total Alternatives Benchmark / 30% ICE BofA 1-3 Yr US Corp & Govt / 20% BBgBarc US Govt/Credit Int,

ASSET ALLOCATION GUIDELINES COMPLIANCE

Total Plan Asset Allocation Policy	Range	Current
Operating & Short-Term Pool	0% - 50%	19%
Long Term/ Reserves Pool	50% - 100%	81%

Operating & Short-Term Pool	Range	Current
Operating Assets	60% - 100%	100%
Short-Term Assets	0% - 40%	0%

Long Term/ Reserves Pool	Target	Range	Current
Domestic Equity	27%	20% - 35%	31%
International Equity	8%	0% - 15%	8%
Total Equity	35%	25% - 45%	39%
Alternatives	15%	0%-20%	11%
Short-Term Fixed Income	30%	25% - 45%	30%
Intermediate Fixed Income	20%	10% - 30%	20%
Cash & Cash Equivalents	0%	0% - 5%	0%





SCHEDULE OF ASSETS

	Ticker	Account Type	Begin Market Value \$	Market Value 12/31/2022	% of Portfolio
Total University Assets			\$89,300,805	\$73,025,390	100.0
Total Operating & Short Term			\$32,360,317	\$13,560,592	18.6
Federated Hermes Government Obligations Fund		Cash	\$32,186,155	\$13,467,679	18.4
JPMorgan 100% U.S. Tr Sec MM Inst	JTSXX	Cash	\$82,258	\$165	0.0
STAR Ohio		Cash	\$91,903	\$92,748	0.1
Total Long Term/ Reserves Pool			\$56,940,489	\$59,464,798	81.4
Total Domestic Equity			\$16,768,025	\$18,169,862	24.9
Vanguard Institutional Index	VINIX	US Stock Large Cap Core	\$10,947,037	\$11,773,488	16.1
Vanguard Mid Cap Index Adm	VIMAX	US Stock Mid Cap Core	\$2,777,020	\$3,027,372	4.1
Loomis Sayles Sm Growth N	LSSNX	US Stock Small Cap Growth	\$1,541,389	\$1,663,983	2.3
Victory Integrity Small Value Y	VSVIX	US Stock Small Cap Value	\$1,502,578	\$1,705,019	2.3
Total International Equity			\$4,268,936	\$4,886,661	6.7
William Blair International Growth I	BIGIX	International	\$1,903,513	\$2,142,607	2.9
Dodge & Cox Internat'l Stock	DODFX	International	\$2,365,423	\$2,744,054	3.8
Total Alternatives			\$6,384,402	\$6,673,675	9.1
Weatherlow Offshore Fund I Ltd CI IIA		Hedge Fund	\$4,403,315	\$4,472,317	6.1
H.I.G. Whitehorse Principal Lending Offshore Feeder Fd, L.P.		Private Equity	\$1,656,325	\$2,201,358	3.0
Total Fixed Income			\$29,518,874	\$29,734,356	40.7
JPMorgan Core Bond	WOBDX	US Fixed Income Core	\$4,899,376	\$4,958,462	6.8
YSU Intermediate Term Bond		US Fixed Income Core	\$4,149,134	\$4,220,753	5.8
PGIM High Yield R6	PHYQX	US Fixed Income High Yield	\$2,842,827	\$2,947,261	4.0
YSU Short Term Bond		US Fixed Income Short Term	\$12,348,377	\$12,479,880	17.1
Lord Abbett Short Duration Income I	LLDYX	US Fixed Income Short Term	\$5,279,159	\$5,128,000	7.0
Total Cash & Cash Equivalents			\$252	\$244	0.0
PNC Govt MMkt	PKIXX	Cash	\$252	\$244	0.0



ATTRIBUTION OF MARKET VALUE

TOTAL UNIVERSITY ASSETS

	Q1-2022	Q2-2022	Q3-2022	Q4-2022	One Year
otal University Assets					
Beginning Market Value	\$87,254,985	\$102,269,338	\$77,012,438	\$89,300,805	\$87,254,985
Contributions	\$24,000,000		\$14,000,897	\$2,048	\$38,002,945
Distributions	-\$6,000,000	-\$20,000,000	-\$12,826	-\$19,009,237	-\$45,022,063
Net Cash Flows	\$18,000,000	-\$20,000,000	\$13,988,071	-\$19,007,189	-\$7,019,118
Net Investment Change	-\$2,985,648	-\$5,256,899	-\$1,699,704	\$2,731,774	-\$7,210,477
Ending Market Value	\$102,269,338	\$77,012,438	\$89,300,805	\$73,025,390	\$73,025,390
Change \$	\$15.014.352	-\$25.256.899	\$12,288,367	-\$16,275,415	-\$14,229,595

LONG-TERM POOL

	Q1-2022	Q2-2022	Q3-2022	Q4-2022	One Year
otal Long Term/ Reserves Pool					
Beginning Market Value	\$67,042,588	\$64,052,942	\$58,753,018	\$56,940,489	\$67,042,588
Contributions	-		\$897	\$2,048	\$2,945
Distributions			-\$11,929	-\$9,237	-\$21,166
Net Cash Flows		-	-\$11,032	-\$7,189	-\$18,221
Net Investment Change	-\$2,989,645	-\$5,299,925	-\$1,801,498	\$2,531,499	-\$7,559,569
Ending Market Value	\$64,052,942	\$58,753,018	\$56,940,489	\$59,464,798	\$59,464,798
Change \$	-\$2,989,645	-\$5,299,925	-\$1,812,529	\$2,524,310	-\$7,577,789



PERFORMANCE SUMMARY

	QTD (%)	1 Yr (%)	2 Yr (%)	3 Yr (%)	5 Yr (%)	7 Yr (%)	10 Yr (%)	2021 (%)	2020 (%)	2019 (%)	Inception (%)	Inception Date
Total University Assets	3.0	-7.9	-0.3	2.8	3.6	4.3	3.8	7.8	9.5	11.5	3.8	Apr- 04
Total Policy Benchmark ¹	2.7	-4.7	-0.3	1.7	2.6	3.0	2.7	4.3	5.9	8.7	2.9	
Total Operating & Short Term	1.0	1.6	0.8	0.9	1.4	1.1	0.8	0.0	1.1	2.4	0.7	Jul- 10
Total Operating & Short Term Benchmark ²	0.8	1.2	0.6	0.7	1.2	1.0	0.7	0.0	0.8	2.3	0.6	
Total Long Term/ Reserves Pool	4.4	-11.3	-1.5	1.8	3.3	4.5	4.4	9.5	8.8	15.3	4.5	Jul- 10
Total Long Term/ Reserves Fund Benchmark ³	4.2	-9.7	-1.3	2.3	3.6	4.6	4.3	8.0	10.0	14.2	4.3	
Total Domestic Equity	8.4	-17.7	2.2	7.4	8.8	11.0	12.1	26.9	18.5	30.4	12.9	Jul- 10
Russell 3000 Index	7.2	-19.2	0.8	7.1	8.8	11.0	12.1	25.7	20.9	31.0	13.0	
Total International Equity	14.5	-17.6	-4.8	1.9	1.9	5.3	5.1	10.0	16.7	26.7	4.5	Oct- 10
MSCI EAFE (Net)	17.3	-14.5	-2.4	0.9	1.5	4.5	4.7	11.3	7.8	22.0	4.6	
Total Alternatives	1.4	-7.4	-1.3	-2.1	0.2	1.7		5.3	-3.7	14.3	0.8	Mar- 15
Total Alternatives Benchmark⁴	1.8	-5.2	0.3	2.0	2.5	3.2		6.2	5.4	11.7	2.4	
Total Fixed Income	1.4	-6.7	-3.4	-0.6	1.1	1.4	1.2	0.1	5.2	6.6	1.7	Jul- 10
Total Fixed Income Benchmark⁵	1.1	-5.4	-3.1	-0.7	0.9	1.0	1.0	-0.8	4.5	5.0	1.3	
Total Cash & Cash Equivalents	16.7	17.3	8.3	5.6			•	0.0	0.4	1.5	4.0	Apr- 18
90 Day U.S. Treasury Bill	0.8	1.5	0.7	0.7	1.3	1.1	0.8	0.0	0.7	2.3	1.3	

⁵⁾ Total Fixed Income Benchmark: 64% ICE BofA 1-3 Yr US Corp & Govt / 36% BBgBarc US Govt/Credit Int.



¹⁾ Total Policy Benchmark: 45% ICE BofA 91 Days T-Bills / 17% ICE BofA 1-3 Yr US Corp & Govt / 11% BBgBarc US Govt/Credit Int / 8% Total Alternatives Benchmark / 15% Russell 3000 / 4% MSCI EAFE. 2) Total Operating & Short-Term Benchmark: 95% ICE BofA 91 Days T-Bills / 5% BBgBarc US Govt 1-3 Yr.

³⁾ Total Long-Term / Reserves Fund Benchmark: 27% Russell 3000 / 8% MSCI EAFE / 15% Total Alternatives Benchmark / 30% ICE BofA 1-3 Yr US Corp & Govt / 20% BBgBarc US Govt/Credit Int, 4) Total Alternatives Benchmark: 100% HFRI Fund of Funds Composite.

PERFORMANCE REPORT CARD

	% of Portfolio	QTD (%)	1 Yr (%)	2 Yr (%)	3 Yr (%)	5 Yr (%)	7 Yr (%)	10 Yr (%)	2021 (%)	2020 (%)	2019 (%)	Inception (%)	Inception Date
Total University Assets	100.0	3.0	-7.9	-0.3	2.8	3.6	4.3	3.8	7.8	9.5	11.5	3.8	Apr-04
Total Policy Benchmark		2.7	-4.7	-0.3	1.7	2.6	3.0	2.7	4.3	5.9	8.7	2.9	
Total Operating & Short Term	18.6	1.0	1.6	8.0	0.9	1.4	1.1	0.8	0.0	1.1	2.4	0.7	Jul-10
Total Operating & Short Term Benchmark		0.8	1.2	0.6	0.7	1.2	1.0	0.7	0.0	0.8	2.3	0.6	
Federated Hermes Government Obligations Fund	18.4	0.8	1.4	0.7	0.5	1.0	0.8	0.6	0.0	0.3	1.8	1.2	Nov-21
90 Day U.S. Treasury Bill		0.8	1.5	0.7	0.7	1.3	1.1	0.8	0.0	0.7	2.3	1.3	
JPMorgan 100% U.S. Tr Sec MM Inst	0.0	0.8	1.4	0.7	0.6	1.1	0.9	0.6	0.0	0.3	2.0	0.6	Oct-11
90 Day U.S. Treasury Bill		0.8	1.5	0.7	0.7	1.3	1.1	0.8	0.0	0.7	2.3	0.7	
STAR Ohio	0.1	0.9	1.7	0.9	0.8	4	-	-	0.1	0.7	2.3	1.3	Jul-18
90 Day U.S. Treasury Bill		0.8	1.5	0.7	0.7	1.3	1.1	0.8	0.0	0.7	2.3	1.2	
Total Long Term/ Reserves Pool	81.4	4.4	-11.3	-1.5	1.8	3.3	4.5	4.4	9.5	8.8	15.3	4.5	Jul-10
Total Long Term/ Reserves Fund Benchmark		4.2	-9.7	-1.3	2.3	3.6	4.6	4.3	8.0	10.0	14.2	4.3	
Total Domestic Equity	24.9	8.4	-17.7	2.2	7.4	8.8	11.0	12.1	26.9	18.5	30.4	12.9	Jul-10
Russell 3000 Index		7.2	-19.2	0.8	7.1	8.8	11.0	12.1	25.7	20.9	31.0	13.0	
Vanguard Institutional Index	16.1	7.5	-18.1	2.6	7.6	9.4	11.5	12.5	28.7	18.4	31.5	13.3	Jul-10
S&P 500 Index		7.6	-18.1	2.7	7.7	9.4	11.5	12.6	28.7	18.4	31.5	13.3	
Vanguard Mid Cap Index Adm	4.1	9.0	-18.7	0.6	6.2	7.3	9.5	11.1	24.5	18.2	31.0	11.3	Oct-10
Vanguard Mid Cap Index Benchmark		9.0	-18.7	0.6	6.2	7.3	9.5	11.1	24.5	18.2	31.1	11.3	
Loomis Sayles Sm Growth N	2.3	8.0	-22.8	-7.8	4.5	7.8	10.1	11.5	10.2	34.3	26.7	5.8	Sep-19
Russell 2000 Growth Index		4.1	-26.4	-13.0	0.6	3.5	7.1	9.2	2.8	34.6	28.5	3.6	
Victory Integrity Small Value Y	2.3	13.5	-7.7	11.1	7.7	4.6	8.3	9.5	33.6	1.2	23.1	10.0	Oct-10
Russell 2000 Value Index		8.4	-14.5	4.7	4.7	4.1	8.2	8.5	28.3	4.6	22.4	9.1	
Total International Equity	6.7	14.5	-17.6	-4.8	1.9	1.9	5.3	5.1	10.0	16.7	26.7	4.5	Oct-10
MSCI EAFE (Net)		17.3	-14.5	-2.4	0.9	1.5	4.5	4.7	11.3	7.8	22.0	4.6	
MSCI AC World ex USA (Net)		14.3	-16.0	-4.8	0.1	0.9	4.8	3.8	7.8	10.7	21.5	3.7	
William Blair International Growth I	2.9	12.6	-28.3	-11.6	1.0	2.1	4.9	4.9	9.0	32.0	30.7	6.1	Jul-12
MSCI AC World ex USA (Net)		14.3	-16.0	-4.8	0.1	0.9	4.8	3.8	7.8	10.7	21.5	4.9	
Dodge & Cox Internat'l Stock	3.8	16.0	-6.8	1.7	1.9	1.2	5.2	4.8	11.0	2.1	22.8	4.7	Oct-10
MSCI EAFE (Net)		17.3	-14.5	-2.4	0.9	1.5	4.5	4.7	11.3	7.8	22.0	4.6	



PERFORMANCE REPORT CARD

	% of Portfolio	QTD (%)	1 Yr (%)	2 Yr (%)	3 Yr (%)	5 Yr (%)	7 Yr (%)	10 Yr (%)	2021 (%)	2020 (%)	2019 (%)	Inception (%)	Inception Date
Total Alternatives	9.1	1.4	-7.4	-1.3	-2.1	0.2	1.7	-	5.3	-3.7	14.3	0.8	Mar-15
Total Alternatives Benchmark		1.8	-5.2	0.3	2.0	2.5	3.2	¥	6.2	5.4	11.7	2.4	
Weatherlow Offshore Fund I Ltd CI IIA	6.1	1.6	-8.9	-1.9	6.3	5.7	5.0	5.5	5.6	24.7	13.6	-7.1	Jul-21
HFRI Fund of Funds Composite Index		1.8	-5.2	0.3	3.7	3.0	3.3	3.5	6.2	10.9	8.4	-2.8	
H.I.G. Whitehorse Principal Lending Offshore Feeder Fd, L.P.	3.0	0.0	MATE OF STREET	-	_ =	-	-	V SEL	No.		-	1.8	Jul-22
Credit Suisse Leveraged Loan Index		2.3	-1.1	2.1	2.3	3.2	4.3	3.8	5.4	2.8	8.2	3.5	
Total Fixed Income	40.7	1.4	-6.7	-3.4	-0.6	1.1	1.4	1.2	0.1	5.2	6.6	1.7	Jul-10
Total Fixed Income Benchmark		1.1	-5.4	-3.1	-0.7	0.9	1.0	1.0	-0.8	4.5	5.0	1.3	
JPMorgan Core Bond	6.8	1.2	-12.3	-6.9	-2.1	0.3	1.1	1.2	-1.1	8.1	8.3	0.3	Sep-17
Blmbg. U.S. Aggregate Index		1.9	-13.0	-7.5	-2.7	0.0	0.9	1.1	-1.5	7.5	8.7	0.0	
YSU Intermediate Term Bond	5.8	1.7	-8.0	-4.7	-0.8	1.1	1.4	1.3	-1.3	7.5	7.2	3.0	Apr-04
Blmbg. Intermed. U.S. Government/Credit		1.5	-8.2	-4.9	-1.3	0.7	1.1	1.1	-1.4	6.4	6.8	2.7	
PGIM High Yield R6	4.0	3.7	-11.5	-3.0	-0.1	2.7	5.2	4.3	6.5	5.7	16.3	3.5	Jan-17
Blmbg. U.S. Corp: High Yield Index		4.2	-11.2	-3.3	0.0	2.3	5.0	4.0	5.3	7.1	14.3	3.2	
YSU Short Term Bond	17.1	1.1	-3.3	-1.9	0.0	1.1	1.1	1.0	-0.4	3.7	4.3	2.1	Apr-04
ICE BofA 1-3 Yr. Gov/Corp		0.9	-3.8	-2.1	-0.3	0.9	1.0	0.9	-0.4	3.3	4.1	1.9	
Lord Abbett Short Duration Income I	7.0	1.1	-4.6	-1.8	-0.2	1.3	1.9	1.7	1.1	3.2	5.6	1.4	Apr-18
ICE BofA 1-3 Yr. Gov/Corp		0.9	-3.8	-2.1	-0.3	0.9	1.0	0.9	-0.4	3.3	4.1	1.0	
Total Cash & Cash Equivalents	0.0	16.7	17.3	8.3	5.6	-	-		0.0	0.4	1.5	4.0	Apr-18
90 Day U.S. Treasury Bill		0.8	1.5	0.7	0.7	1.3	1.1	0.8	0.0	0.7	2.3	1.3	
PNC Govt MMkt	0.0	0.9	1.6	0.8	0.7	-	-	-	0.0	0.4	2.0	-	Apr-18
90 Day U.S. Treasury Bill		0.8	1.5	0.7	0.7	1.3	1.1	0.8	0.0	0.7	2.3	1.3	

⁵⁾ Total Fixed Income Benchmark: 64% ICE BofA 1-3 Yr US Corp & Govt / 36% BBgBarc US Govt/Credit Int.



¹⁾ Total Policy Benchmark: 45% ICE BofA 91 Days T-Bills / 17% ICE BofA 1-3 Yr US Corp & Govt / 11% BBgBarc US Govt/Credit Int / 8% Total Alternatives Benchmark / 15% Russell 3000 / 4% MSCI EAFE. 2) Total Operating & Short-Term Benchmark: 95% ICE BofA 91 Days T-Bills / 5% BBgBarc US Govt 1-3 Yr.

³⁾ Total Long-Term / Reserves Fund Benchmark: 27% Russell 3000 / 8% MSCI EAFE / 15% Total Alternatives Benchmark / 30% ICE BofA 1-3 Yr US Corp & Govt / 20% BBgBarc US Govt/Credit Int, 4) Total Alternatives Benchmark: 100% HFRI Fund of Funds Composite.

VARYING LEVELS OF DISCRETION

ROLES & RESPONSIBILITIES







INVESTMENT INITIATIVE
Investment Policy
Strategic Asset Allocation
Illiquid Manager Changes (> Annual Liquidity)
Liquid Manager Changes (< Annual Liquidity)
Tactical Adjustments
Trading & Implementation
External Cash Movements

INSTITUTION	CONSULTANT
Collab	orative
Collab	orative
Approves	Recommends
Approves	Recommends
Approves	Recommends
Monitors / Implements	Assists / Implements
Approves	Assists in Transfer

INSTITUTION	CONSULTANT
Collab	orative
Collab	orative
Approves	Recommends
Approves	Recommends
Approves	Recommends
Monitors	Implements
Approves	Assists / Implements

INSTITUTION	CONSULTANT
Collab	orative
Collab	orative
Varies	Varies
Monitors	Implements
Monitors	Implements
Monitors	Implements
Approves	Assists / Implements





DEFINITIONS & DISCLOSURES

information provided is general in nature, is provided for informational purposes only, and should not be construed as investment advice. Any views expressed are based upon the data available at the time the information was produced and are subject to change at any time based on market or other conditions. Clearstead disclaims any liability for arrive discontinuous. applying any of the information in this presentation. All investment decisions must be evaluated as to whether it is consistent with their investment objectives, risk tolerance, and financial situation.

Past performance is no guarantee of future results. Investing involves risk, including risk of loss. Diversification does not ensure a profit or guarantee against loss.

All indices are unmanaged and performance of the indices includes reinvestment of dividends and interest income, unless otherwise noted. An investment cannot be made in any index

Although bonds generally present less short-term risk and volatility than stocks, bonds do contain interest rater risk (as interest rater risk (as interest rater risk (as interest rater risk and volatility than stocks, bonds and short-term investments entail greater inflation risk, or the risk that an issuer will be unable to make income or principal payments. Additionally, bonds and short-term investments entail greater inflation risk, or the risk that an issuer will be unable to make income or principal payments. number for the credit quality of the issuer. Any fixed income security sold or redeemed prior to maturity may be subject to loss

Lower-quality debt securities generally offer higher yields, but also involve greater risk of default or price changes due to potential changes in the credit quality of the issuer. Any fixed income security sold or redeemed prior to maturity may be subject to loss

The municipal market is volatile and can be significantly affected by adverse tax, legislative, or political changes and by the financial condition of the issuers of municipal securities. Interest rate increases can cause the price of a debt security to decrease. A portion of the dividends you receive may be subject to federal; state, or local income tax or may be subject to the federal alternative minimum tax. Generally, tax-exempt municipal securities are not appropriate holdings for tax advantaged accounts such as IRAs and 401(k)s.

Stock markets, especially foreign markets, are volatile and can decline significantly in response to adverse issuer, political, regulatory, market, or economic, and political risks, all of which are magnified in emerging markets. The securities of smaller, less well-known companies can be more volatile than those of larger companies. Growth stocks can perform differently from the market as a whole and other types of stocks and can be more volatile than other types of stocks. Value stocks can perform differently than other types of stocks and can continue to be undervalued by the market for long periods of time. The commodities industry can be significantly affected by commodity prices, world events, import controls, worldwide competition, government regulations, and economic conditions.

Changes in real estate values or economic conditions can have a positive or negative effect on issuers in the real estate industry, which may affect your investment.

The S&P 500 Index is a broad-based market index, comprised of 500 large-cap companies, generally considered representative of the stock market as a whole. The P&P 400 Index is a market-value weighted index consists of 600 small-cap U.S. stocks chosen for market size, liquidity and

industry group representation.
The Russell 1000 Value Index, Russell 1000 Index and Russell 1000 Growth Index are indices that measure the performance of large-capitalization value stocks, large-capitalization growth stocks, respectively. The Russell 2000 Index and Russell 2000 Growth Index are indices that measure the performance of small-capitalization. value stocks, small-capitalization stocks and small-capitalization growth stocks, respectively. The Russell 2500 Value Index, Russell 300 Index and Russell 2500 Index and Russell 3000 Growth Index measure the performance of small to mid-cap stocks, and smid-capitalization growth stocks, respectively. The Russell 3000 Index and Russell 3000 Index and Russell 3000 Growth Index measure the performance of small to mid-cap value stocks, and smoll to mid-cap value stocks, and small to mid-cap value stocks, and 3000 Index and Russell 3000 Growth Index measure the performance of the 3,000 largest U.S. value stocks, 3,000 largest U.S. stocks and 3,000 Index and Russell 3000 Index and Russell 3000 Growth Index measure the performance of the 3,000 largest U.S. value stocks, 3,000 largest U.S. stocks and 3,000 Index and Russell 3000 Index and Russell

Integes U.S. growth stocks, respectively, based on total market capitalization.

The Wilshire S000 index represents the broadest index representative of a stocks in the Wishire 5000 index below the 2,501.** rank.

The MSCI EAFE (Europe, Australasia, Far East) index is designed to measure developed market equity performance, excluding the U.S. equity securities with readily available price data. The Wilshire MSCI Parank.

The MSCI EAFE (Europe, Australasia, Far East) index is designed to measure developed market equity performance, excluding the U.S. and Canada. The MSCI Energing Markets (EM) index is designed to measure global emerging market equity performance. The MSCI World Index is designed to measure global emerging market equity performance of developed market equity performance. The MSCI Parank index is designed to measure the equity market performance of developed markets and excludes the U.S. the MSCI Europe index is an unmanaged index considered representative of stocks of Japan. The MSCI Parank index is an unmanaged index considered representative of stocks of Japan. The MSCI Parank index is an unmanaged index considered representative of stocks of Japan. The MSCI Parank index is an unmanaged index considered representative of stocks of Japan. The MSCI Parank index is an unmanaged index considered representative of stocks of Japan. The MSCI Parank index is an unmanaged index considered representative of stocks of Japan. The MSCI Parank index is an unmanaged index considered representative of stocks of Japan. The MSCI Parank index is an unmanaged index considered representative of stocks of Japan. The MSCI Parank index is an unmanaged index considered representative of stocks of Japan. The MSCI Parank index is an unmanaged index considered representative of stocks of Japan. The MSCI Parank index is an unmanaged index considered representative of stocks of Japan. The MSCI Parank index is an unmanaged index considered representative of stocks of Japan. The MSCI Parank index is an unmanaged index conside

The U.S. 10-Year treasury Yield is generally considered to be a barometer for long-term interest rates.

The U.S. 10-Fear treasury Fled is generally considered to be an a reading spent memority from 1 mpt 3 months.

Here U.S. 10-Fear treasury Fled is generally considered to be an a remaining maturity of one year or more. The BC Aggregate Bond Index is an unmanaged, market value-weighted performance benchmark for investment-grade fixed-rate debt issues, including government, corporate, asset-backed, and mortgage backed securities with maturities of a least one-year. The BC U.S. Credit Bond Index is designed to cover publicly issued districts of the U.S. Treasury with a remaining maturity of a least one-year. The BC U.S. Credit Bond Index is designed to cover publicly issued districts of the U.S. Government, the BC U.S. Government, the BC U.S. Government, the BC U.S. Government agencies, quasis-federal corporations, and corporate or foreign debt guaranteed by the U.S. Government, the BC U.S. Government is a market value-weighted index of U.S. Government is a market value-weighted inde

reported in Qu. exempt institutional investors or its designated agent. In addition these properties that are included must be investment grade, non-agricultural and income producing and all development projects are excluded. Constituents included in the NPI be valued at least quarterly, either internally or externally, using standard commercial real estate appraisal methodology. Each property must be independently appraised a minimum of once every three years.

The FTSE NAREIT All REITS index is a market capitalization-wegitted index that is designed to measure the performance of all tax-qualified Real Estate Investment Trusts (REITs) that are listed on the New York Stock Exchange, the American Stock Exchange, or the NASDAQ National Market List.

The FSE NAREIT All REITs Index s a market capitalization-weighted index so take designed to measure the performance of all tax-qualified Real Estate Executives such as real estate executives to the New York Stock Exchange, to the NASDAQ National Market List.

The Dow Jones U.S. Select Real Estate Secutives such a scribe a lestate secutives such as real estates executives under the end of the estate destate on the pooled time weighted return and are net of all fees. These pooled means represent the end to end rate of return calculated based on the pooled time weighted return and are net of all fees. These pooled means represent the end to end rate of return calculated based on the pooled time weighted return and are net of all fees. These pooled means represent the end to end rate of return calculated on the aggregate of all cash flows and market values reported by the general partners of constituents in the quartery and analyzed constituents in the quartery and analyzed constituents in the pooled time weighted return and are net of all fees. These pooled means represent the end to end rate of return calculated on the aggregate of all cash flows and an area of constituents in the quartery and an area of calculated based on the pooled time weighted return and are net of all fees. These pooled means represent the end to end rate of return calculated on the pooled time weighted return and are net of all fees. These pooled time weighted return and are net of all fees. These pooled time weighted return and are net of all fees. These pooled time weighted return and are net of al HRI Emerging Markets: Asia ex-japan, Global Index, Latin America Index, Brussia/Eastern Europe Index: The constituents of the HRIP Emerging Markets Indices are selected according to their Regional Investment Focus only. There is no Investment Focus only. The Investment Focus only. There is no Investment Focus only. The Investment Focus on Investment Focu

represents an advance opportunity for uncervariants in an interval of the control of the control

The Consumer Price Index (CPI) so an index is an arriex value-weighted index designed to represent the investable universe of the U.S. older-denominated leveraged loan reasons an arriex value-weighted index designed to represent the investable universe of the U.S. older-denominated leveraged loan market.

The Dow Jones-UBS Commodity Index measures the performance of the Commodities market. It consists of exchange-traded futures contracts on physical commodities that are weighted to account for the commodities was provided futures contracts on physical commodities that are weighted to account for the commonities ginder and market induced by a broad-based market induced state measure the performance of market companies, and S&P 500 index and S&P 400 MidCap Value, Index S&P MidCap 400 Index and S&P 400 MidCap Forwth Index are indices that measure the performance of mid-stread value companies, indicated companies, mid-stread companies, mid-stread companies, and mid-stread state of the S&P 500 for the S&P 500 fo



DEFINITIONS & DISCLOSURES

The Wilshire 5000 Index represents the broadest index for the U.S. equity market, measuring the performance of all U.S. equity securities with readily available price data. The Wilshire 5000 Index below the 2,501st rank. The Wilshire 5000 Index below the 2,501st rank. The Wilshire 5000 Index is a market capitalization-weighted index comprised of all stocks in the Wilshire 5000 Index is a market capitalization. minus the stocks in the S&P 500. The Wilshire Real Estate Securities Index (RESI) is comprised of publically traded real estate equity securities.

All MSCI indices are gross, defined as With Gross Dividends: Gross total return indices reinvest as much as possible of a company's dividend distributions, The reinvested amount distributed to persons residing in the country of the dividend-paying company, Gross total return indices do not, however, include any tax credits. The MSCI EAFE (Europe, All MASL Indices are gross, defined as With Gross Dividends (S Gross total return indices remives as much as possible of a company, Gross total return indices semipored to measure developed market equal to the total dividend amount distributed to persons residing in the. Canada. The MASC (Europe, Australasia, Far Fasts) Gross Index is designed to measure global developed market equal to the total dividend amount distributed to person residing in the Canada. The MASC (Europe Canada. The MASC

markets. The MSCI US Final Cap 1730 Gross index represents the universe of small capital action companes in the US equity market. The MSCI US Prime Market 730 Index represents the value companes of the MSCI US Prime Market 730 Index. The MSCI US

The BC High Yield Index covers the universe of fixed rate, non-investment grade debt. Pay-in-kind (PIK) bonds, Eurobonds, and debt issues from countries designated as emerging markets (e.g., Argentina, Brazil, Venezuela, etc.) are excluded, but Canadian and global bonds (SEC registered) of issuers in non-EMG countries are included. Original issue zeroes, step-up coupon structures, and 144 As are also included. The BC Intermediate Government index measures the performance of intermediate U.S. government securities the performance of intermediate intermediate U.S. Long Term Corporate index measures the performance of intermediate inte

The Cambridge U.S. Private Equity Index is a representation of returns for over 70% of the total dollars raised by U.S. leveraged buyout, subordinated debt and special situation managers from 1986 to December 2007. Returns are calculated based on the pooled time weighted return and are net of all fees. These pooled means represent the end to end rate of return calculated on the aggregate of all cash flows and market values reported by the general partners of the underlying constituents in the quarterly and annual reports. Please Note: the performance of this index lags by 1 quarter.

The Bank of America (BofA) Merrill Lynch (ML) 91-day T-bill Index includes U.S. Treasury bills with a remaining maturity from 1 up to 3 months. The BofA ML U.S. High Yield Master II Indices track the performance of below investment grade US Dollar Denominated corporate bonds publicly issued in the US market. Qua bonds have at least one year remaining term to maturity, are fixed coupon schedule and minimum outstanding of \$100 million. The BofA ML All US Convertibles Index consists of convertible bonds traded in the U.S. dollar denominated investment grade government to maturity, are fixed coupon schedule and minimum outstanding of \$100 million. The BofA ML LS, tight and coupon schedule schedule stars are specified by the U.S. dollar-denominated investment grade government suprainated investment grade government supraination and corporate securities. So dollar-denominated investment grade government supraination and corporate public stars are specified BS-8 Convertible So dollar-denominated investment grade government supraination and corporate securities. The BofA ML U.S. digital securities in the U.S. dollar-denominated investment grade government supraination and corporate public stars are supraination and corporate is a modified market capitalization-weighted index of U.S. dollar-denominated, below-investment.grade corporate debt publicly issued in the U.S. domestic market. The BofA Merrial Lynch US Year Index tracts the performance of the direct sowering ones to the u.s. soveremment rawing a maturity or at east use year some interpretable for the U.S. Gomestic market. The BofA ML U.S. Fixed Rate CMB5 index tracks the performance of the direct sowering debt of the U.S. Gomestic market. The BofA ML U.S. Fixed Rate CMB5 index tracks the performance of U.S. dollar-denominated investment-grade (ixed rate commercial mortgage-backed securities publicly issued in the U.S. domestic market. The BofA ML U.S. Fixed Rate CMB5 index tracks the performance of U.S. dollar-denominated investment-grade fixed rate commercial mortgage-backed securities publicly issued in the U.S. domestic market. The BofA ML U.S. Fixed Rate CMB5 index tracks the performance of U.S. dollar-denominated investment-grade fixed rate commercial mortgage-backed securities publicly issued in the U.S. domestic market. The BofA ML U.S. Fixed Rate CMB5 index tracks the performance of U.S. dollar-denominated investment-grade fixed rate commercial mortgage-backed securities publicly issued in the U.S. domestic market. The BofA ML U.S. Fixed Rate CMB5 index tracks the performance of U.S. dollar-denominated investment-grade fixed rate commercial mortgage dollar tracks the performance of U.S. dollar-denominated investment-grade fixed rate commercial mortgage dollar tracks the performance of U.S. dollar-denominated investment-grade fixed rate commercial mortgage dollar tracks the performance of U.S. dollar-denominated investment-grade fixed rate commercial mortgage dollar tracks the performance of U.S. dollar-denominated investment-grade fixed rate (IBDR) and the U.S. dollar-d

The Cits Select MLP Index is a USD demoninated, price return index, comprehensive measure of the total return performance of the government bond markets of approximately 22 countries with maturities ranging from one to five yeas. The Citigroup WGBI of the total return performance of the government bond markets of the multiple countries. The Citigroup WGBI ex US Index is a market capitalization weighted bond index consisting of the government bond markets of the multiple countries. The Citigroup WGBI ex US Index is a market capitalization weighted bond index consisting of the government bond markets of the multiple countries. The Citigroup 3-Month U.S. Treasury Bill Index is an average of the last 3-Month Treasury Bill Index is an average of

The RCRIFF property index [Properties out and performance of the properties which are at least 60% occupied and owned or controlled, at least in part by tax-resembly institutional investions or its designation of the properties which are at least 60% occupied and owned or controlled, at least in part by tax-resembly institutional investions or its designation of the properties which are at least 60% occupied and owned or controlled, at least in part by tax-resembly institutional investions or its designation of the properties which are at least 60% occupied and owned or controlled, at least in part by tax-resembly institutional investions or its designation of the properties which are at least 60% occupied and owned or controlled, at least in part by tax-resembly institutional investions or its designation of the properties which are at least 60% occupied and owned or controlled, at least in part by tax-resembly institutional investions or its designation of the properties which are at least 60% occupied and owned or controlled, at least in part by tax-resembly institutional investions or its designation of the properties which are at least 60% occupied and owned or controlled, at least in part by tax-resembly institutional investions or its designation of the properties which are at least 60% occupied and owned or controlled, at least in part by tax-resembly institutional investions or its designation of the properties which are at least 60% occupied and owned or controlled, at least in part by tax-resembly institutional investions or its designation of the properties of the part of The Ibbotson Intermediate Government Bond Index is measured using a one-bond portfolio with a maturity near 5 years.

The JP Morgan Emerging Markets Bond Index Plus (EMBI+) Index tracks total returns for traded external debt instruments (external meaning foreign currency denominated fixed income) in the emerging markets. The JPMorgan GBI Global ex-U5 Index represents the total return performance of major non-U.S. bond markets.

The HFRI roots of runds index (HFRI FOF) is an equal weighted index designed to measure the general control report to the root of runds and a tracking report to the root of runds and a tracking report to the report to the root of runds and a tracking report to the root of runds and a tracking report to the report to the root of runds and a tracking report to the report to the root of runds and a tracking report to the report to the root of report to the root of runds and a tracking report to the root of report to the root of runds and a tracking report to the root of report to the root of runds and a tracking report to the root of runds and a tracking report to the root of runds and a tracking report to the root of runds and a tracking report to the root of runds and a tracking report to the root of runds and a tracking report to the root of runds and a tracking report to the root of runds and a tracking report to the root of runds and a tracking report to the root of runds and a tracking runds and a tracking report to the root of runds and a tracking runds and runds an also, but as opposed to ED exposures, the investment thesis is predicated on realization of a pricing discrepancy between related securities, as opposed to the outcome of the corporate transaction. HFRI Fund of Funds Conservative Index is an equal-weighted index representing funds or funds that invest with multiple managers focused on consistent performance and lower volatility via absolute strategies. HFRI ED: Merger Arbitrage strategies which employ an investment process primarily focused on opportunities in equity related instruments of companies which are currently engaged in a corporate transaction.

The FTSE All-World ex US index comprises large and midcap stocks providing coverage of developed and emerging markets, excluding the U.S. The FTSE NAREIT Developed index is a global market capitalization weighted index composed of listed real estate securities from developed market countries in North America, Europe, and Asia. excluding the U.S. The FTSE NAREIT Developed index is a global market capitalization weighted index composed of listed real estates excurities from developed market countries in North America, Europe, and Asia. excluding the U.S. The FTSE High Dividend Yield index composed of listed real estates excurring specific market and the specific market an

The Consumer Price Index (CPI) is an inflationary indicator that measures the change in the cost of a fixed basket of products and services, including housing, electricity, food, and transportation. The CPI is published monthly, Please Note: the performance of this index lags by 1 month.

The Credit Suisse Leveraged Loan Index is a market value-weighted index designed to represent the investable universe of the U.S. dollar-denominated leveraged loan market. The Dow Jones (DJ) UBS Commodity Index measures the performance of the commodities market. It consists of exchange-traded futures contracts on physical commodities that are weighted to account for the economic agridiance and market liquidity of each commodity. The DJ U.S. Total Stock Market Index is an advantable prices. The DJ U.S. Completion Total Stock Market Index is a subset of the DJ U.S. Total Stock Market I

The Dow Jones Target Date (Today, 2010, 2015, 2020, 2025, 2030, 2035, 2040, 2045, 2050, 2055) Indices were created to benchmark portfolios of stocks, bonds and cash. Each index is made up of composite indices representing these three asset classes. The asset classes indices are weighted differently within each target date index depending on the time horizon. Each month, the

The Dow Jones Target Date (1003), 2010, 2015, 2004, 2025, 2030, 2035, 20300, 2035, 2030, 2035, 2030, 2035, 2030, 2035, 2030, 2035, 2030, 2

These reports are not to be construed as an offer or the solicitation of an offer to buy or sell securities mentioned herein. Information contained in these reports are based on sources and data believed reliable. The information used to construct these reports was received via a variety of sources. These reports are for informational purposes only and are not intended to satisfy any compliance or regulatory Conditions set forth by any governing body of the securities industries, these reports and a technical solution in the statement your cream from your custodian. There may also be differences in the investment values shown due to the use of differences in the investment values shown due to the use of differences in the investment values shown due to the use of differences in positions.

This evaluation report has been prepared for the exclusive use of a specific client and no part of it may be used by any investment manager without permission of that client and Clearstead. Evaluation of investment managers covers both quantitative and qualitative aspects. In addition to the investment performance evaluation, we monitor ownership structure, track key-employee information, and hold regular meetings with each investment management organization employed by our clients.

The data presented in this report have been calculated on a time-weighted rate of return basis. All returns are net of investment advisory fees, but gross of Clearstead advisory fees and custodian fees, unless otherwise labeled. The deduction of Clearstead advisory fees and custodian fees would have the effect of decreasing the indicated investment performance.

The performance data shown represent past performance. Past performance is not indicative of future results. Current performance data may be lower or higher than the performance data presented.

Returns for periods longer than one year are annualized. Each number is independently rounded. A current copy of Hartland & Co.'s ADV-Part 2 is available to all clients upon request.





RESOLUTION TO APPROVE AN OUTSOURCED CHIEF INVESTMENT OFFICER INVESTMENT STRATEGY

WHEREAS, the Investment Committee of the Board of Trustees of Youngstown State University is responsible for identification of asset classes, strategic asset allocation, acceptable asset ranges above and below the strategic asset allocation, and selecting investment managers, pursuant to University policy 3356-3-10; and

WHEREAS, the Investment Committee has considered various approaches to asset management, including the non-discretionary model currently used by the university, and the discretionary model commonly referred to as an *outsourced chief investment officer* (OCIO) model; and

WHEREAS, the OCIO approach provides greater flexibility to more quickly respond to changes in investment markets, thereby helping to mitigate investment risk.

NOW, THEREFORE, BE IT RESOLVED, that the Investment Committee of the Board of Trustees of Youngstown State University does hereby approve moving to an outsourced investment officer model, effective immediately upon approval of this resolution.

Board of Trustees Meeting March 2, 2023 YR 2023-

EXECUTIVE SUMMARY (CONTINUED)

Tasks completed and next steps for the Board:

- Clearstead present education on different Fiduciary service models (COMPLETED)
- Clearstead to gather Committee feedback / questions and follow up with responses (COMPLETED)
- · Board decision on evolving the investment structure with Clearstead to a discretionary assignment (ACTION)
- If Approved:
 - Clearstead would work with University stakeholders to update the investment advisory agreement to reflect a level of discretionary authority
 - Clearstead would review and recommend changes to the Investment Policy and guidelines to update roles and responsibilities
 - Clearstead would work with University stakeholders to be granted trading authority at PNC Bank (University's primary custodian) and any other custodians/managers (no authority for external cash movements will be given to Clearstead)





RESOLUTION TO APPROVE THE ADDITION OF AN INVESTMENT MANAGER FOR THE NON-ENDOWED LONG-TERM INVESTMENT POOL

WHEREAS, the Investment Committee of the Board of Trustees of Youngstown State University is responsible for identification of asset classes, strategic asset allocation, acceptable asset ranges above and below the strategic asset allocation, and selecting investment managers, pursuant to University policy 3356-3-10; and

WHEREAS, the Investment Committee has consulted with the University's investment advisor, Clearstead, regarding asset allocations, portfolio and market performance, and investment managers.

NOW, THEREFORE, BE IT RESOLVED, that the Investment Committee of the Board of Trustees of Youngstown State University does hereby approve the addition of Apollo Infrastructure Opportunities Fund III as an investment manager for the University's pool of non-endowed long-term assets.

EXECUTIVE SUMMARY

RECOMMENDATION: Clearstead recommends a \$2.75 million commitment to the Apollo Infrastructure Opportunities Fund III in the Long-Term Pool.

WHY INVEST IN APOLLO INFRASTRUCTURE OPPORTUNITIES?

- Established Market Leader
- Deep Team & Resources
- · Disciplined Process and Robust Platform
- Track Record of Results





RESOLUTION TO APPROVE CLEARSTEAD'S RECOMMENDATION TO REBALANCE THE NON-ENDOWMENT LONG-TERM INVESTMENT POOL

WHEREAS, the Investment Committee of the Board of Trustees of Youngstown State University is responsible for identification of asset classes, strategic asset allocation, acceptable asset ranges above and below the strategic asset allocation, and selecting investment managers, pursuant to University policy 3356-3-10; and

WHEREAS, the Investment Committee has consulted with the University's investment advisors and recommends rebalancing the Non-Endowment Long-Term Investment Pool.

NOW, THEREFORE, BE IT RESOLVED, that the Investment Committee of the Board of Trustees of Youngstown State University does hereby approve the rebalance, attached hereto.

Board of Trustees Meeting March 2, 2023 YR 2023-

PORTFOLIO RECOMMENDATIONS (ACTION)

YOUNGSTOWN STATE UNIVERSITY								AS	OF FEBRUA	ARY 17, 202
	TICKER	INVESTMENT STRATEGY	MARKET VALUE (CURRENT)	% OF PORTFOLIO	CHANGES	MARKET VALUE (POST CHANGES)	% OF PORTFOLIO	POLICY TARGET	POLICY RANGE	TACTICAL +/-
Total Operating & Short Term			\$33,606,554	100.0%	\$0	\$33,606,554	100.0%	100.0%		
Operating Assets			\$33,606,554	100.0%		\$33,606,554	100.0%	,	60-100%	
Federated Hermes Govt Obligations	FOGXX	Money Market	\$33,515,148	99.7%		\$33,515,148	99.7%			
Star Plus*	-	Cash Equivalent	\$0	0.0%		\$0	0.0%			
Star Ohio*	-	Cash Equivalent	\$91,406	0.3%		\$91,406	0.3%			
Short-Term Assets			\$0	0.0%		\$0	0.0%		0-40%	
Vanguard Short-Term Federal Adm	VSGDX	Short-Term Fixed	\$0	0.0%		\$0	0.0%			
Total Long Term Reserves Pool			\$61,473,407	100.0%	\$0	\$61,473,407	100.0%	100.0%		THE PARTY OF
Domestic Equity			\$19,520,552	31.8%		\$18,720,552	30.5%	27.0%	20-35%	3.5%
Large Cap			\$12,537,449	20.4%		\$12,267,449	20.0%			
Vanguard Instl Index	VINIX	Large Cap Core	\$12,537,449	20.4%	-\$270,000	\$12,267,449	20.0%			
Small/Mid Cap		CONTRACTOR CONTRACTOR	\$6,983,103	11.4%		\$6,453,103	10.5%			
Vanguard Mid Cap Index Adm	VIMAX	Mid-Cap Core	\$3,276,186	5.3%	-\$180,000	\$3,096,186	5.0%			
Loomis Sayles Small Growth N2	LSSNX	Small Cap Growth	\$1,819,105	3.0%	-\$140,000	\$1,679,105	2.7%			
Victory Integrity Small Cap Value Y	VSVIX	Small Cap Value	\$1,887,811	3.1%	-\$210,000	\$1,677,811	2.7%			
International Equity			\$5,256,046	8.6%		\$5,056,046	8.2%	8.0%	0-15%	0.2%
William Blair International Growth I	BIGIX	Foreign Growth	\$2,305,758	3.8%		\$2,305,758	3.8%			
Dodge & Cox International Stock	DODFX	Foreign Value	\$2,950,288	4.8%	-\$200,000	\$2,750,288	4.5%			
Total Equity			\$24,776,598	40.3%		\$23,776,598	38.7%	35.0%	25-45%	3.7%
Alternatives			\$6,797,431	11.1%		\$6,797,431	11.1%	15.0%	0-20%	-3.9%
H.I.G. Principal Lending Fund*	7.	Private Credit	\$2,200,333	3.6%		\$2,200,333	3.6%			
Apollo Infrastructure Opps Fund III		Real Assets	\$0	0.0%		\$0	0.0%			
Weatherlow Fund*	8	Hedge FoF	\$4,597,098	7.5%		\$4,597,098	7.5%			
Fixed Income			\$29,899,133	48.6%		\$30,899,133	50.3%	50.0%	35-75%	0.3%
Short Term Fixed Income			\$17,644,413	28.7%		\$18,644,413	30.3%	30.0%	25-45%	0.3%
YSU Short Term Bond	*	Short-Term Fixed	\$12,470,282	20.3%		\$12,470,282	20.3%			
Lord Abbett Short Duration	LLDYX	Short-Term Fixed	\$5,174,131	8.4%	\$1,000,000	\$6,174,131	10.0%			
Intermediate Fixed Income			\$12,254,721	19.9%	4	\$12,254,72	1 19.9%	20.0%	10-30%	-0.1%
JPMorgan Core Bond Fund R6**	ICBUX	Core Plus Fixed	\$5,040,843	8.2%	T	\$5,040,843	8.2%			
YSU Intermediate Term Fixed	# Dept. Dept. Company of 1	Interm-Term Fixed	\$4,229,094	6.9%		\$4,229,094	6.9%			
Prudential High Yield Bond R6	PHYQX	High Yield	\$2,984,783	4.9%		\$2,984,783	4.9%			
Cash & Cash Equivalents		T. Ordina Alexandra	\$245	0.0%	/	\$245	0.0%	0.0%	0-5%	0.0%
Equity Account Cash		Money Market	\$245	0.0%		\$245	0.0%	2011,000,000	2012 - 1 cons may (1)	entransporter (d) (Te) i
Total University Assets			\$95,079,961			\$95,079,961				VALUE TO

^{*}As of 01/31/2023.

Why Lord Abbett? Lord Abbett has a significant yield advantage over the other short-term fixed income investment – the (PNC) short-term bond portfolio – which is primarily held by the University to satisfy ORC requirements. Lord Abbett's yield of ~6.2% (as of 12/31) is an attractive rate for short-term bond exposure.



^{**}Held at JPMorgan.