



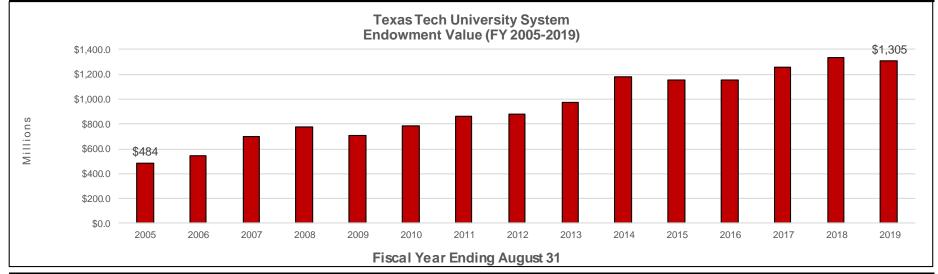
Board of Regents Report for December 2019

**Texas Tech University Investment Pools** 

Contents	Page
Endowment Data	3
Endowment Liquidity	5
Market Data	6
Asset Class Allocation: Actual vs. Target	8
ITIF Asset Class Allocation: Actual vs. Target	9
Asset Class Performance: Actual vs. Policy	10
ITIF Asset Class Performance: Actual vs. Policy	11
Long Term Risk/Return of Endowment vs. 60/40 Portfolio and Policy Returns	12
Risk Profile	13
ITIF Risk Profile	14
Appendix I – Sub-Asset Detail	15
Appendix II – ITIF Sub-Asset Detail	16
Appendix III – Private Market Reports	17
Appendix IV – Glossary	19

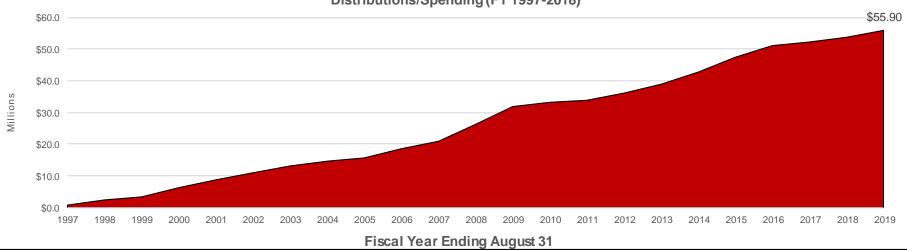
# 31<sup>st</sup> December 2019 Endowment Data\*

# HISTORICAL MARKET VALUE (Fiscal Year)



# HISTORICAL SPENDING (Fiscal Year)

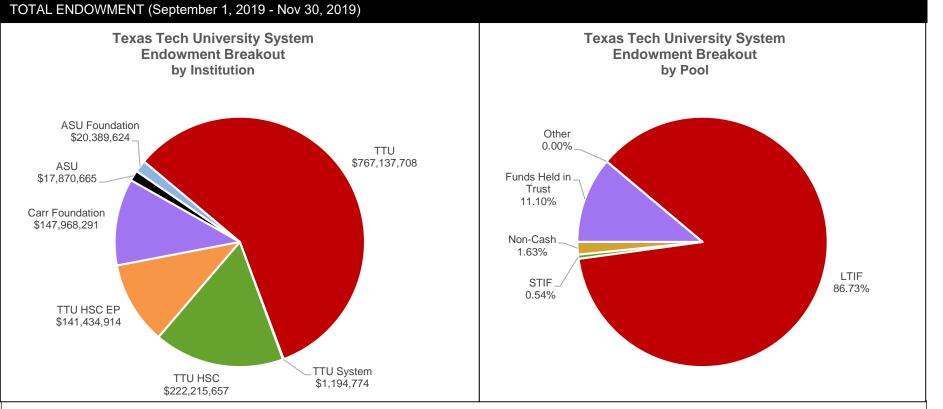
# Texas Tech University System Distributions/Spending (FY 1997-2018)



\*Data provided by the TTUS Office of Treasury

The 4.5% distribution rate has been realized every year since inception.

Endowment Data\* (cont.)

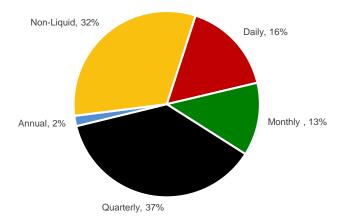


#### Summary of Endowment

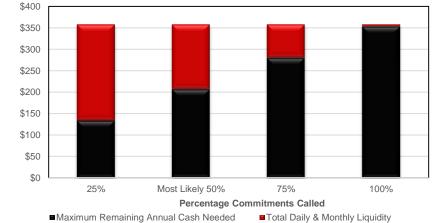
	TTU	TTU System	TTU HSC	TTU HSC EP	Carr Foundation	ASU	ASU Foundation	Total
LTIF	\$712,428,002	\$1,186,774	\$153,806,617	\$107,232,228	\$130,733,664	\$17,477,175	\$20,389,624	\$1,143,254,083
STIF	\$4,171,217	\$8,000	\$2,509,486	\$5,181	\$0	\$393,469	\$0	\$7,087,353
Non-Cash	\$3,610,524	\$0	\$678,583	\$0	\$17,234,627	\$0	\$0	\$21,523,733
Funds Held in Trust	\$46,927,965	\$0	\$65,220,971	\$34,197,505	\$0	\$0	\$0	\$146,346,441
Other	\$0	\$0	\$0	\$0	\$0	\$21	\$0	\$21
Total	\$767,137,708	\$1,194,774	\$222,215,657	\$141,434,914	\$147,968,291	\$17,870,665	\$20,389,624	\$1,318,211,632

# **LTIF Liquidity**

# LTIF Liquidity



LTIF		Liquidity
Daily	\$201,440,296	16.3%
Monthly	\$156,950,414	12.7%
Quarterly	\$459,728,773	37.2%
Annual	\$22,244,941	1.8%
2-Year	\$0	0.0%
Non-Liquid	\$395,465,611	32.0%
Total LTIF	1,235,830,034	100%



				Balance	Commitment
Private Equity	\$300,482,445	\$202,131,665	\$88,212,160	\$161,462,876	\$98,350,780
Private Credit	\$489,739,797	\$343,062,179	\$104,838,678	\$104,674,822	\$146,677,618
Private Real Assets	\$288,316,339	\$241,407,797	\$252,884,739	\$93,494,444	\$46,908,542
Total Illiquid Assets	\$1,078,538,581	\$786,601,641	\$445,935,577	\$359,632,142	\$291,936,940
Private Credit Private Real Assets	\$489,739,797 \$288,316,339	\$343,062,179 \$241,407,797	\$104,838,678 \$252,884,739	\$104,674,822 \$93,494,444	\$146,677,618 \$46,908,542

Commitment Capital Called Distributions

#### Annual Spending \$61,000,000

#### Total Committed Funds \$352,936,940

Account

Remaining

Unfunded Commitments - Sensitivity Analysis	25% Called	Most Likely 50% Called	75% Called	<u>100% Called</u>
Maximum Remaining Annual Cash Needed	\$133,984,235	\$206,968,470	\$279,952,705	\$352,936,940
Percentage of Daily & Monthly Liquidity	38%	58%	78%	99%

# Liquidity Sensitivity

#### Market Data

6

Benchmarks	Underlying	Weight	MTD Perf.	QTD Perf.	Calendar YTD	Fiscal YTD	Nacubo YTD	1 Year Perf.	3 Year Perf.	5 Year Perf.	10 Year Perf.
Calculated Policy			2.02%	3.87%	13.17%	4.94%	4.92%	13.17%	8.66%	6.74%	7.84%
Equity	Global Index (MSCI ACWI with USA Net)	30%	3.52%	8.95%	27.16%	11.29%	9.06%	27.16%	12.79%	8.74%	9.02%
Debt	Global Bonds (Barclays Global Agg)	20%	0.58%	0.49%	6.84%	-0.54%	1.20%	6.84%	4.27%	2.31%	2.48%
Diversifying Assets	HFRX Global Hedge Fund	20%	1.22%	2.57%	8.62%	3.03%	4.22%	8.62%	2.41%	3.60%	4.53%
Private Investments	Private Market Composite	30%	2.02%	2.02%	6.94%	3.71%	3.71%	6.94%	11.29%	9.84%	12.38%
Other Benchmarks											
Equity	S&P 500 Total Return		3.02%	9.07%	31.49%	11.11%	10.92%	31.49%	15.27%	11.70%	13.56%
Equity	Non US Developed Equity (MSCI EAFE)		3.25%	8.17%	22.01%	11.27%	7.01%	22.01%	9.56%	5.67%	5.54%
Equity	EM Equities (MSCI EMF)		7.46%	11.84%	18.42%	13.97%	7.09%	18.42%	11.57%	5.61%	3.69%
Debt	EM Bonds (JPM EM Bond Index)		1.88%	2.09%	14.42%	1.72%	3.45%	14.42%	6.06%	5.88%	6.57%
Cash & Alpha Pool	90 Day T-Bills		0.13%	0.40%	2.12%	0.56%	0.91%	2.12%	1.69%	1.08%	0.58%
Hedge Funds	HFRI FOF Composite		1.64%	3.03%	8.33%	2.57%	2.04%	8.33%	3.87%	2.35%	2.82%
Private Investments	Private Market Composite		2.02%	2.02%	6.94%	3.71%	3.71%	6.94%	11.29%	9.84%	12.38%

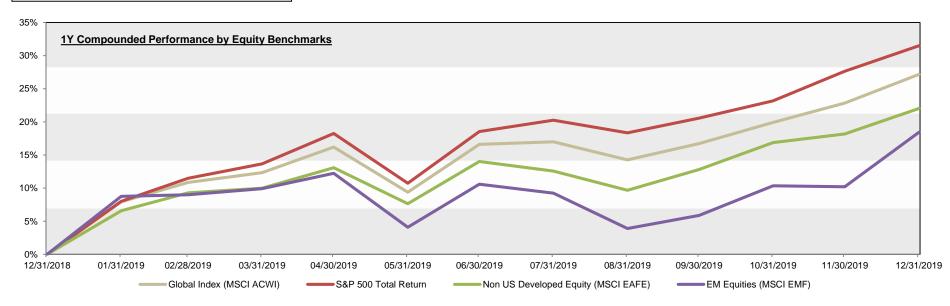
# CIO NOTES:

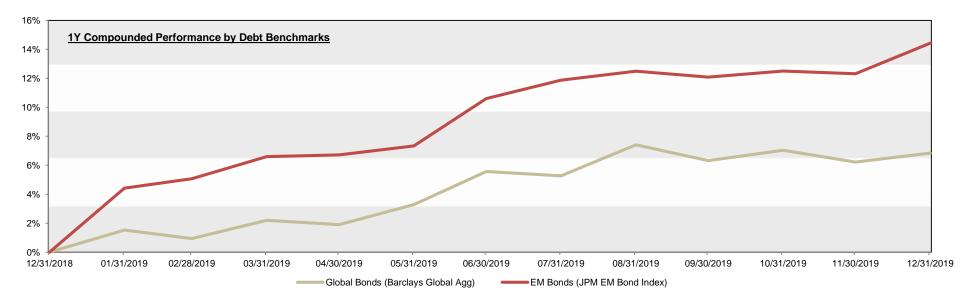
Global equities went out with a bang, building on their already robust returns for the year, with the MSCI ACWI Index up 27% in 2019. US stocks led the charge with the S&P 500 Index returning 31.5% for the 12 months ended December 31. International and emerging markets also posted solid results, with the MSCI EAFE and MSCI Emerging Markets indexes up 22% and 18.4%, respectively, during the same period.

In fixed income, rates ended December modestly higher with the 10- and 30-year Treasury yields increasing 14 and 19 basis points, respectively. Despite this movement, yields in most developed markets are significantly lower relative to 2018. Additionally, spreads continued to compress across the credit spectrum with spreads on the Barclays US Investment Grade and High Yield indexes declining 12 and 34 basis points, respectively, last month. High-yield spreads experienced the most significant move in 2019, falling 1.90% to end the year at 3.36%. Within emerging markets, local-currency debt outperformed hard-currency securities during the month as currencies broadly appreciated relative to the US dollar.

Within real assets, spot WTI Crude Oil increased 5.1% during the month, reflecting heightened geopolitical risks and dwindling supply. Spot prices increased 35.3% for the year – marking the largest annual gain since 2016.

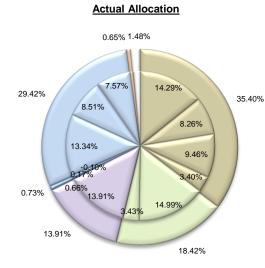
# Market Data (cont.)



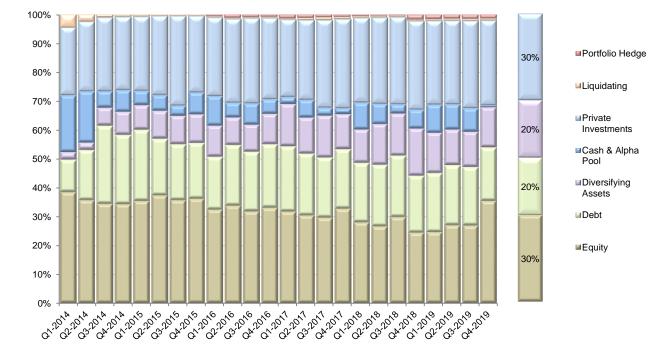


# LTIF: Asset Class Allocation: Actual vs. Target

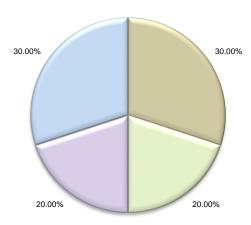
8



Asset Class		Actual \$ Allocation	Total %	Target %	Target Range	
ASSEL GIASS	Physical	Synthetic	Total	Allocation	Allocation	Taiget Kange
Equity	102,024,504	335,448,114	437,472,617	35.40%	30%	20% - 40%
Debt	227,669,528	0	227,669,528	18.42%	20%	10% - 30%
Diversifying Assets	151,910,363	19,964,472	171,874,835	13.91%	20%	10% - 30%
Cash & Alpha Pool	366,870,917	-357,901,304	8,969,613	0.73%	0%	0% - 10%
Private Investments	363,567,594	0	363,567,594	29.42%	30%	20% - 40%
Liquidating	8,024,568	0	8,024,568	0.65%	0%	
Portfolio Hedge	15,762,560	2,488,718	18,251,278	1.48%	0%	
Total	1,235,830,034	0	1,235,830,034	100%	100%	



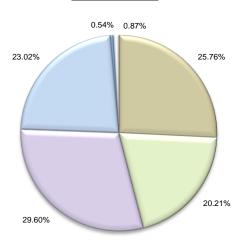
Target Allocation



# ITIF Asset Class Allocation: Actual vs. Target

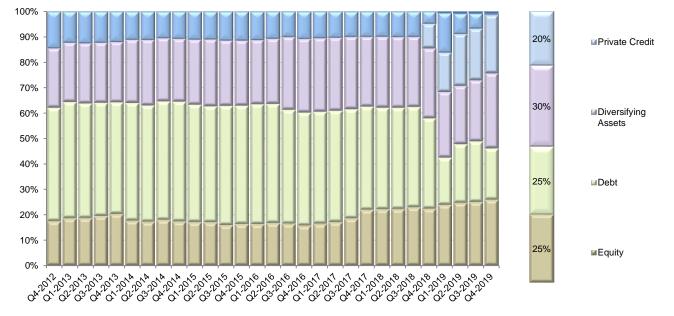
9

Actual Allocation



Asset Class	Actual \$ Allocation	Total % Allocation	Target % Allocation	Target Range
Equity	215,011,313	25.76%	25%	20% - 30%
Debt	168,646,499	20.21%	25%	20% - 30%
Diversifying Assets	247,064,779	29.60%	30%	25% - 35%
Private Credit	192,088,081	23.02%	20%	15% - 25%
Cash	4,507,843	0.54%	0%	0% - 15%
Portfolio Hedge	7,247,567	0.87%	0%	0% - 15%
Total Exposure	834,566,082	100%	100%	





\*Total Exposure value includes the synthetic portfolio hedge exposure.

# LTIF Asset Class Performance: Actual vs. Policy

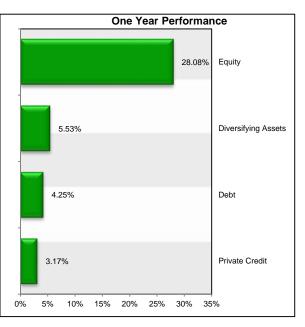
QTD Performance	QTD Performance				Month						QTD		
10.00%	Equity	Asset Class	Physical Return	Synthetic Overlay	Alpha Pool + Cash	Total Return	Policy	Asset Class	Physical Return	Synthetic Overlay	Alpha Pool + Cash	l Total Return	Policy
3.02%	Private Investments	Equity	2.96%	3.74%	0.98%	4.28%	3.52%	Equity	7.51%	8.70%	1.95%	10.00%	8.95%
-		Debt	0.24%			0.24%	0.58%	Debt	-0.40%			-0.40%	0.49%
1.95%	Cash & Alpha Pool	Diversifying Assets	0.16%	-0.12%	0.98%	0.24%	1.22%	Diversifying Assets	1.01%	1.86%	1.95%	1.36%	2.57%
1.36%	Diversifying Assets	Cash & Alpha Pool	0.98%			0.98%		Cash & Alpha Pool	1.95%			1.95%	
-	Diversitying Assets	Private Investments	1.90%			1.90%	2.02%	Private Investments	3.02%			3.02%	2.02%
-0.40%	Debt	Portfolio Hedge Contri.				-0.05%		Portfolio Hedge Contri.				-0.19%	
-4.0% 1.0% 6.0% 11.0%	J	Total	1.19%	3.48%	0.98%	1.94%	2.02%	Total	2.08%	8.24%	1.95%	3.82%	3.87%

One Year Performance				C	alendar YT	D			1 Year				
	Equity	Asset Class	Physical Return	Synthetic Overlay	Alpha Pool + Cash	Total Return	Policy	Asset Class	Physical Return	Synthetic Overlay	Alpha Pool + Cash	Total Return	Policy
6.22%	Cash & Alpha Pool	Equity	27.96%	21.84%	6.22%	28.88%	27.16%	Equity	27.96%	21.84%	6.22%	28.88%	27.16%
		Debt	1.59%			1.59%	6.84%	Debt	1.59%			1.59%	6.84%
6.01%	Private Investments	Diversifying Assets	4.63%	-5.27%	6.22%	3.64%	8.62%	Diversifying Assets	4.63%	-5.27%	6.22%	3.64%	8.62%
3.64%	Diversifying Assets	Cash & Alpha Pool	6.22%			6.22%		Cash & Alpha Pool	6.22%			6.22%	
3.0476	Diversitying Accelo	Private Investments	6.01%			6.01%	6.94%	Private Investments	6.01%			6.01%	6.94%
1.59%	Debt	Portfolio Hedge Contri.				0.39%		Portfolio Hedge Contri.				0.39%	
0% 5% 10% 15% 20% 25% 30% 35	5%	Total	6.07%	18.28%	6.22%	10.92%	13.17%	Total	6.07%	18.28%	6.22%	10.92%	13.17%



# ITIF Asset Class Performance: Actual vs. Policy

QTD Performance		Accest Class	Мо	nth	Accest Class	QTD	
7.51%	Equity	Asset Class	Total Return	Policy	Asset Class	Total Return	Policy
1.55%	Private Credit	Equity	2.96%	3.52%	Equity	7.51%	8.95%
1.33 %	Private Credit	Debt	0.24%	0.58%	Debt	<b>-0.31%</b>	0.49%
1.42%	Diversifying Assets	Diversifying Assets	0.27%	1.22%	Diversifying Assets	1.42%	2.57%
		Private Credit	0.08%	1.61%	Private Credit	1.55%	1.61%
-0.31%	Debt	Portfolio Hedge Contribution	-0.03%	n/a	Portfolio Hedge Contribution	-0.11%	n/a
-3% -1% 1% 3% 5% 7% 9%		Total	0.74%	1.71%	Total	2.26%	3.42%

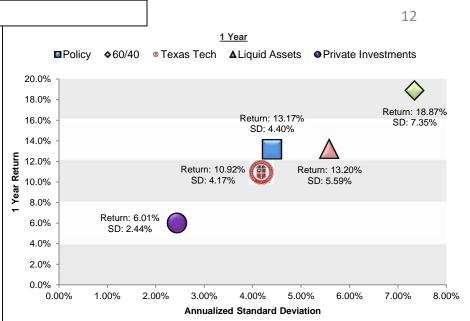


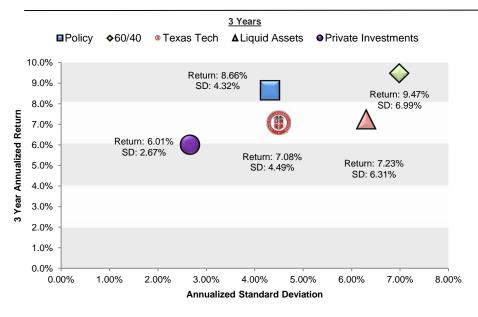
Acces Class	Calend	ar YTD	A	1 Year			
Asset Class	Total Return	Policy	Asset Class	Total Return	Policy		
Equity	28.08%	27.16%	Equity	28.08%	27.16%		
Debt	4.25%	6.84%	Debt	4.25%	6.84%		
Diversifying Assets	5.53%	8.62%	Diversifying Assets	5.53%	8.62%		
Private Credit	3.17%	5.53%	Private Credit	3.17%	5.53%		
Portfolio Hedge Contribution	n/a	n/a	Portfolio Hedge Contribution	n/a	n/a		
Total	9.29%	12.05%	Total	9.29%	12.05%		

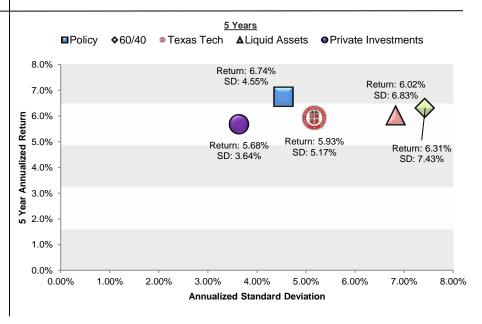
# LTIF: Risk/Return of Endowment vs. 60/40 Portfolio & Policy Returns

#### Commentary

- The Texas Tech portfolio is less volatile than the 60/40 portfolio over all time horizons.
- The Texas Tech portfolio underperforms the 60/40 over all time horizons.
- Volatility (measured by standard deviation) on the Texas Tech portfolio has decreased over the past 12 months compared with the annualized 3-year and 5year volatility.





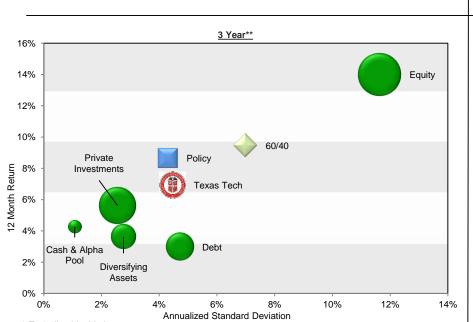


### 31st December 2019

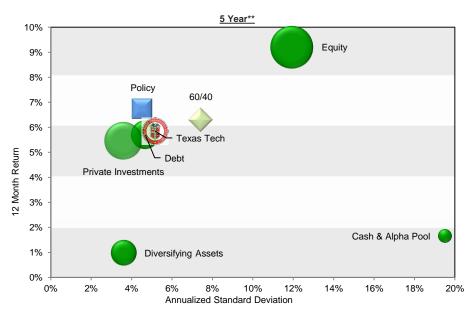
# LTIF: Risk Profile\*

#### Commentary

- Private Investments and Cash & Alpha Pool have provided the highest risk adjusted returns over the last 12 months
- Debt has generated the lowest risk adjusted returns over the last 12 months.



1 Year 35% 30% Equity 25% 20% 12 Month Return 12, 10% 60/40 Cash & Alpha Pool Policy Diversifying Texas Tech Assets 5% **Private Investments** Debt 0% 2% 4% 6% 8% 10% 12% 0% 14% Annualized Standard Deviation



\* Excluding Liquidating

\*\* Cash & Alpha Pool values are post-Aegis

# TEXAS TECH UNIVERSITY SYSTEM

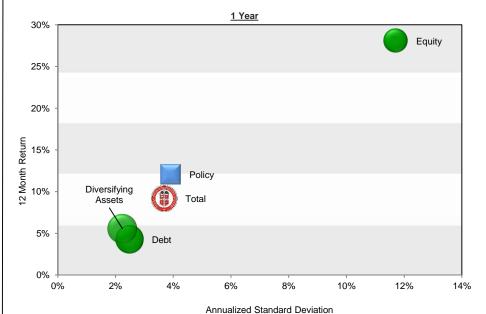


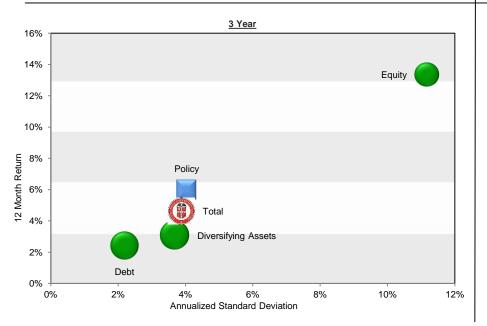
### 31st December 2019

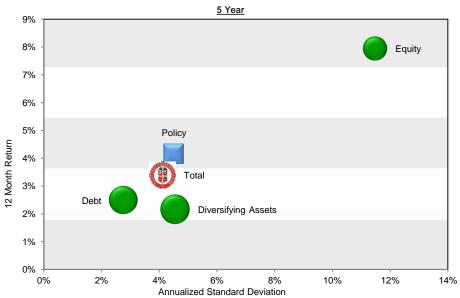
# **ITIF: Risk Profile**

#### Commentary

• Equity has provided the highest risk adjusted returns, and Debt has provided the lowest risk adjusted returns.









# LTIF: Appendix I – Sub-Asset Detail

15

Fund	Current Exposure	MTD Perf.	QTD Perf.	Calendar YTD	Fiscal YTD (08/31)	Nacubo YTD (06/30)	Trailing 1 Yr	Trailing 3 Yr	Trailing 5 Yr	Trailing 10 Yr
TOTAL	1,235,830,034	1.94%	3.82%	10.92%	4.30%	3.59%	10.92%	7.08%	5.93%	6.63%
Policy		2.02%	3.87%	13.17%	4.94%	4.92%	13.17%	8.66%	6.74%	7.84%
Portfolio Hedge Contribution	18,251,278	-0.05%	-0.19%	0.39%	-0.36%	-0.21%	0.39%	-0.25%	n/a	n/a
Equity	437,472,617	4.28%	10.00%	28.88%	12.86%	10.36%	28.88%	14.04%	9.23%	9.53%
Equity Policy Benchmark (MSCI ACWI with USA Net)		3.52%	8.95%	27.16%	11.29%	9.06%	27.16%	12.79%	8.74%	9.02%
US Equity	176,554,355	4.10%	10.57%	31.98%	13.13%	12.51%	31.98%	15.49%	11.98%	12.52%
Benchmark: S&P 500 Total Return		3.02%	9.07%	31.49%	11.11%	10.92%	31.49%	15.27%	11.70%	13.56%
Global Equity	102,024,504	2.96%	7.51%	28.03%	9.50%	7.42%	28.03%	14.97%	9.71%	n/a
Benchmark: MSCI ACWI with USA Net		3.52%	8.95%	27.16%	11.29%	9.06%	27.16%	12.79%	8.74%	9.02%
Non US Developed Equity	116,886,259	4.00%	9.67%	26.22%	13.84%	9.02%	26.22%	10.50%	6.55%	6.63%
Benchmark: MSCI EAFE (Net)		3.25%	8.17%	22.01%	11.27%	7.01%	22.01%	9.56%	5.67%	5.54%
Non US Emerging Markets Equity	42,007,500	9.62%	14.60%	22.55%	16.72%	8.76%	22.55%	16.83%	10.57%	6.94%
Benchmark: MSCI EMF (Net)		7.46%	11.84%	18.42%	13.97%	7.09%	18.42%	11.57%	5.61%	3.69%
Alternative Equity	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Benchmark: MSCI ACWI with USA Net		3.52%	8.95%	27.16%	11.29%	9.06%	27.16%	12.79%	8.74%	9.02%
Debt	227,669,528	0.24%	-0.40%	1.59%	0.11%	-1.02%	1.59%	2.99%	5.69%	6.32%
Debt Policy Benchmark (Barclays Global Agg)		0.58%	0.49%	6.84%	-0.54%	1.20%	6.84%	4.27%	2.31%	2.48%
Sovereign/Investment Grade Bonds	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Benchmark: Barclays Global Aggregate		0.58%	0.49%	6.84%	-0.54%	1.20%	6.84%	4.27%	2.31%	2.48%
Credit	185,247,146	0.95%	0.13%	2.38%	0.66%	0.16%	2.38%	5.76%	7.52%	8.63%
Benchmark: Barclays Global Aggregate		0.58%	0.49%	6.84%	-0.54%	1.20%	6.84%	4.27%	2.31%	2.48%
Emerging Markets Debt	42,422,382	-2.77%	-2.70%	-1.63%	-2.28%	-6.00%	-1.63%	-4.91%	2.48%	4.95%
Benchmark: JP Morgan EM Bond Index		1.88%	2.09%	14.42%	1.72%	3.45%	14.42%	6.06%	5.88%	6.57%
Diversifying Assets	171,874,835	0.24%	1.36%	3.64%	1.18%	1.37%	3.64%	3.64%	0.99%	-0.24%
Benchmark: HFRXGL Index		1.22%	2.57%	8.62%	3.03%	4.22%	8.62%	2.41%	3.60%	4.53%
Cash & Alpha Pool**	8,969,613	0.98%	1.95%	6.22%	2.26%	3.12%	6.22%	4.33%	4.10%	4.00%
Cash Collateral	94,835,899	0.13%	1.07%	2.76%	1.23%	1.61%	2.76%	1.63%	1.02%	n/a
Collateral Held Elsewhere	1,224,637	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	n/a	n/a
Adjustments for Synthetic Exposure	(357,901,304)									0.00%
Alpha Pool	260,337,750	1.33%	2.43%	7.92%	2.82%	3.90%	7.92%	5.77%	5.03%	5.65%
Benchmark: HFRI FOF Index		1.64%	3.03%	8.33%	2.57%	2.04%	8.33%	3.87%	2.35%	2.82%
Cash	10,472,631	0.28%	0.55%	2.12%	0.63%	1.06%	2.12%	1.84%	-2.85%	-1.32%
Liquidating	8,024,568	-2.38%	5.09%	2.75%	6.03%	-0.29%	2.75%	29.90%	20.24%	9.53%
Private Investments	363,567,594	1.90%	3.02%	6.01%	2.30%	2.41%	<b>6.0</b> 1%	6.01%	5.68%	8.52%
Benchmark: Private Market Composite		2.02%	0.00%	6.94%	3.71%	3.71%	6.94%	11.29%	9.84%	12.38%
Private Equity	164,854,489	3.79%	3.80%	8.37%	3.94%	4.02%	8.37%	5.00%	4.73%	8.09%
Private Credit	105,107,909	0.08%	1.55%	3.17%	0.01%	0.13%	3.17%	6.73%	6.32%	8.12%
Private Diversifying Assets	93,605,196	0.65%	3.24%	5.54%	2.23%	2.38%	5.54%	5.71%	5.30%	8.91%
* Including Aegis										

\* Including Aegis

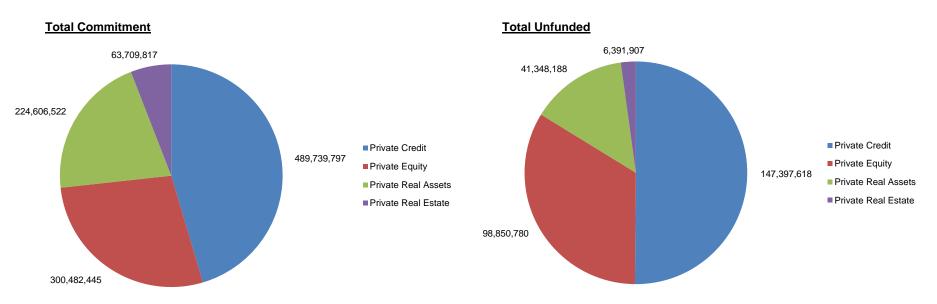
\*\* Excluding Aegis

Private Benchmark, as of 7/1/2018, is defined as the trailing 5 year return of 70% MIMUAWON Index, 15% LF98TRUU Index, 15% LG30TRUU Index, rolled quarterly, + 250bps p/a

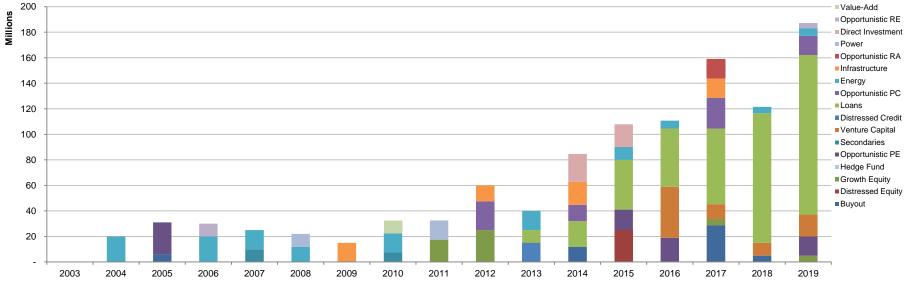
# ITIF: Appendix II – ITIF Sub-Asset Detail

Fund	Current Exposure	MTD Perf.	QTD Perf.	Calendar YTD	Fiscal YTD (08/31)	Nacubo YTD (06/30)	Trailing 1 Yr	Trailing 3 Yr	Trailing 5 Yr
TOTAL	834,566,082	0.74%	2.26%	9.29%	2.32%	1.93%	9.29%	4.66%	3.41%
Policy	,,	1.71%	3.42%	12.05%	4.13%	4.43%	12.05%	5.99%	4.15%
Portfolio Hedge Contribution	7,247,567	-0.03%	-0.11%	n/a	-0.21%	-0.12%	n/a	n/a	n/a
Total Legacy Portfolio	32,406,253	0.98%	3.24%	11.81%	2.69%	3.31%	11.81%	5.41%	3.85%
Total Current Portfolio	802,159,829	0.73%	2.22%	8.12%	2.33%	1.81%	8.12%	n/a	n/a
Equity	215,011,313	2.96%	7.51%	28.08%	9.50%	7.42%	28.08%	13.36%	7.95%
Benchmark: MSCI ACWI with USA (Net)		3.52%	8.95%	27.16%	11.29%	9.06%	27.16%	12.65%	8.53%
Legacy Equity	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Current Equity	215,011,313	2.96%	7.51%	27.96%	9.50%	7.42%	27.96%	n/a	n/a
Debt	168,646,499	0.24%	<b>-0.31%</b>	4.25%	0.13%	-0.67%	4.25%	2.40%	2.48%
Benchmark: Barclays Global Aggregate		0.58%	0.49%	6.84%	-0.54%	1.20%	6.84%	3.99%	3.05%
Legacy Debt	-	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Current Debt	168,646,499	0.24%	-0.40%	1.59%	0.11%	-1. <b>02</b> %	1.59%	n/a	n/a
Diversifying Assets	247,064,779	0.27%	1.42%	5.53%	1.12%	1.65%	5.53%	3.08%	2.15%
Benchmark: HFRXGL Index		1.22%	2.57%	8.62%	3.03%	4.22%	8.62%	6.83%	4.77%
Legacy Diversifying Assets	32,406,253	0.98%	3.76%	7.21%	2.70%	3.10%	7.21%	n/a	n/a
Current Diversifying Assets	214,658,526	0.16%	1.01%	4.63%	0.87%	1.41%	4.63%	n/a	n/a
Private Credit	192,088,081	0.08%	1.55%	3.17%	0.01%	0.13%	3.17%	n/a	n/a
Private Market Composite		1.61%	1.61%	5.53%	3.00%	3.00%	5.53%	n/a	n/a
Cash	4,507,843	0.99%	1.33%	3.52%	1.38%	2.60%	3.52%	n/a	n/a

# Appendix III - Private Markets Report (as of December 2019) - Total Commitment



#### **Commitment by Vintage Year**



Data provided by Texas Tech University System Reported valuations use latest available statements for December 2019

Adjusted Valuations include all cashflows through December 2019

# Appendix III - Private Markets Report (as of December 2019) - Performance Analysis by Asset Class & Strategy Type

# Performance by Asset Class

Asset Class	# of Funds	Commitment	Funded	Paid-In Capital	Distributions	% Drawn	Reported Valuation	Adjusted Valuation	IRR	ΤΥΡΙ
Private Equity	27	\$300,482,445	\$202,131,665	\$211,418,482	\$88,212,160	70%	\$163,824,009	\$160,375,497	5.00%	1.18
Private Credit	25	\$489,739,797	\$343,062,179	\$350,957,613	\$104,838,678	72%	\$279,535,620	\$289,914,061	6.57%	1.12
Private Real Assets	18	\$224,606,522	\$184,089,887	\$200,350,388	\$213,923,732	89%	\$60,436,328	\$59,474,208	13.55%	1.38
Private Real Estate	5	\$63,709,817	\$57,317,910	\$59,536,456	\$38,961,007	93%	\$33,683,036	\$30,431,515	3.34%	1.17
Total	75	\$1,078,538,581	\$786,601,641	\$822,262,939	\$445,935,577	76%	\$537,478,993	\$540,195,281	7.57%	1.20

# Performance by Strategy Type

Asset Class	Strategy	# of Funds	Commitment	Funded	Paid-In Capital	Distributions	% Drawn	Reported Valuation	Adjusted Valuation	IRR	ΤΥΡΙ
Private Equity	Buyout	5	\$51,610,000	\$43,301,119	\$44,718,778	\$13,958,626	87%	\$37,793,289	\$37,978,909	6.32%	1.16
	Distressed Equity	1	\$25,000,000	\$11,262,492	\$12,024,992	\$1,162,372	48%	\$9,603,391	\$9,603,391	-6.93%	0.90
	Growth Equity	5	\$52,500,000	\$39,822,549	\$44,089,645	\$21,436,640	84%	\$34,896,333	\$33,743,807	6.57%	1.25
	Secondaries	5	\$75,047,195	\$49,689,091	\$50,367,388	\$28,344,584	67%	\$33,689,489	\$32,282,789	3.80%	1.20
	Venture Capital	2	\$17,500,000	\$16,405,508	\$17,259,760	\$15,508,595	99%	\$4,518,403	\$4,518,403	3.02%	1.16
	Total	9	\$78,825,250	\$41,650,906	\$42,957,919	\$7,801,343	54%	\$43,323,104	\$42,248,198	11.75%	1.17
Private Credit	Distressed Credit	27	\$300,482,445	\$202,131,665	\$211,418,482	\$88,212,160	70%	\$163,824,009	\$160,375,497	5.00%	1.18
	Loans	1	\$15,000,000	\$15,000,000	\$15,129,068	\$4,857,587	101%	\$8,822,788	\$8,822,788	-1.84%	0.90
	Opportunistic PC	18	\$400,221,750	\$274,839,018	\$281,485,040	\$61,800,436	70%	\$239,591,926	\$250,181,974	7.33%	1.11
	Total	6	\$74,518,047	\$53,223,161	\$54,343,505	\$38,180,655	73%	\$31,120,906	\$30,909,299	8.78%	1.27
	Energy	25	\$489,739,797	\$343,062,179	\$350,957,613	\$104,838,678	72%	\$279,535,620	\$289,914,061	6.57%	1.12
	Infrastructure	11	\$124,106,522	\$116,609,774	\$123,390,057	\$132,975,832	99%	\$31,568,775	\$30,524,202	13.28%	1.34
Private Real Assets	Power	4	\$60,500,000	\$42,483,554	\$50,963,225	\$61,853,145	84%	\$22,100,395	\$22,182,848	27.52%	1.65
	Opportunistic RA	2	\$25,000,000	\$21,959,059	\$22,922,879	\$16,762,892	92%	\$5,751,156	\$5,751,156	-0.43%	0.98
	Total	1	\$15,000,000	\$3,037,500	\$3,074,227	\$2,331,863	20%	\$1,016,002	\$1,016,002	4.04%	1.09
Private Real Estate	Direct Investment	18	\$224,606,522	\$184,089,887	\$200,350,388	\$213,923,732	89%	\$60,436,328	\$59,474,208	13.55%	1.38
	Opportunistic RE	2	\$39,709,817	\$39,709,817	\$41,637,448	\$28,499,510	105%	\$25,534,169	\$22,229,229	6.19%	1.22
	Growth Equity	2	\$14,000,000	\$10,053,419	\$10,107,834	\$0	72%	\$3,679,370	\$3,732,789	-9.57%	0.37
	Total	1	\$10,000,000	\$7,554,674	\$7,791,174	\$10,461,497	78%	\$4,469,497	\$4,469,497	12.27%	1.92

Major Asset Classes

#### Appendix IV – Glossary

19

<u>Alpha Pool:</u> Investments that tend to be uncorrelated with "traditional" stock and bond investments. Not technically an asset class, but rather an investment construct within a \*portable alpha framework

Cash & Equivalents: Cash and short term investments held in lieu of cash and readily converted into cash within a short time span (i.e., CDs, commercial paper, Treasury bills, etc.)

Global Debt: Investments in debt instruments located in developed markets, may include various credit, mortgage-backed and emerging markets debt securities

Global Equity: Investments in companies domiciled in developed market countries and may include opportunistic investments in emerging market countries

Liquidating: The residual investment in terminated managers

Liquid Real Assets: Liquid investments in strategies whose values are sensitive to inflation

Private Equity: Investments in equity securities and debt in operating companies that are not publicly traded on a stock exchange

Private Real Assets: Investments in equity securities and debt in operating companies that are not publicly traded on a stock exchange and whose strategies are sensitive to inflation

#### Sub-Asset Classes

<u>Alternative Equity:</u> Investments in companies globally through both long and short positions and may include non-equity instruments such as fixed income, commodities, CDS, options, etc. <u>Credit:</u> Investments in companies, often stressed or distressed, principally through the debt portion of capital structure <u>Emerging Market Debt</u>: Investments in debt securities in emerging market countries, primarily in three categories - external sovereign, local sovereign, and corporate debt <u>Emerging Market Equity</u>: Investments in companies located in emerging market countries <u>Investment Grade Bonds</u>: Investments in investment grade rated debt securities

Non-US Developed Equity: Investments in companies domiciled in developed market countries

US Equity: Investments in companies domiciled in the US