

## **UNIVERSITY OF CALIFORNIA**

Office of the Chief Investment Officer

### **Growing Portfolios Building Partnerships**

## Working Capital

Investment Review as of March 31, 2017

**UC Investments** 



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# Office of the Chief Investment Officer

The investment objective of the Total Return Investment Pool ("TRIP") is to generate a rate of return, after all costs and fees, in excess of the policy benchmark, and consistent with liquidity, cash flow requirements, and risk budget.

It is appropriate for longer-term investors who can accept this volatility in exchange for a higher long-term expected return than high quality, short duration fixed income products such as STIP

The investment objective of the Short Term Investment Pool ("STIP") is to maximize returns consistent with safety of principal, liquidity, and cash-flow requirements.

Investment maturities are structured to ensure an adequate flow of funds to meet the University's cash needs as well as to provide the liquidity needed to facilitate asset class rebalancing and other major liquidity events.



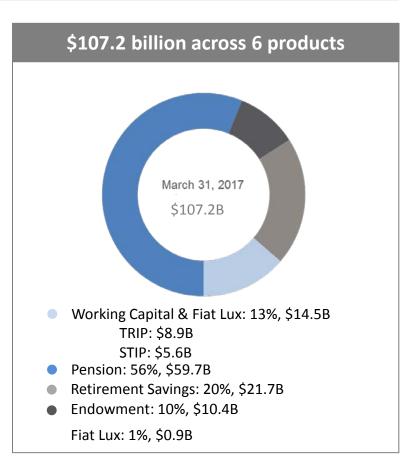
## Office of the CIO at a glance

### **Office of the Chief Investment Officer**

Growing Portfolios. Building Partnerships.

Delivering value through values.

# Office of the CIO Facts Working Capital assets: \$14.5 billion (as of 3/31/17) Investing Endowment assets since 1933 (84 years) Investing pension assets since 1961 (56 years) Investing defined contribution assets since 1967 (50 years) Serving more than 150,000 pension members Serving more than 300,000 DC participants





### The team managing your money

**Chief Investment Officer** Jagdeep Singh Bachher

		Risk Management	Investment Services					
Fixed Income Steve Sterman	Public Equity Scott Chan	Asset Allocation Samuel Kunz	Absolute Return Edmond Fong	<b>Private Equity</b> John Beil*	<b>Real Estate</b> Gloria Gil	<b>Real Assets</b> John Ritter	<b>Risk Management</b> Rick Bookstaber	Chief Operating Officer Arthur Guimaraes
Fixed Income Team 9	Public Equity Team 2	Asset Allocation Team 2	Absolute Return Team 3	Private Equity Team 2	Real Estate Team 4	Real Assets Team 3	Risk Management Team 5	Investment Services Team 14

Note: Excludes Admin (7), Treasury (7), Advisors/Fellows (7), and 15 vacancies \*Interim



# Working Capital Executive Summary



### TRIP at a Glance

### **Global Markets**

- Equities post strong performance
- International Equities meaningfully outperform US Equities over last 3 months
- High Yield spreads continue to tighten driving strong performance

### **Assets Under Management**

- Assets of \$8.9 billion, 60% of our working capital
- \$450 million outflow driven by annual distribution and campus redemptions

### **Asset Allocation**

- Overweight Public Equities with a 100% passive implementation
- Overweight Cash

### **Risk Allocation**

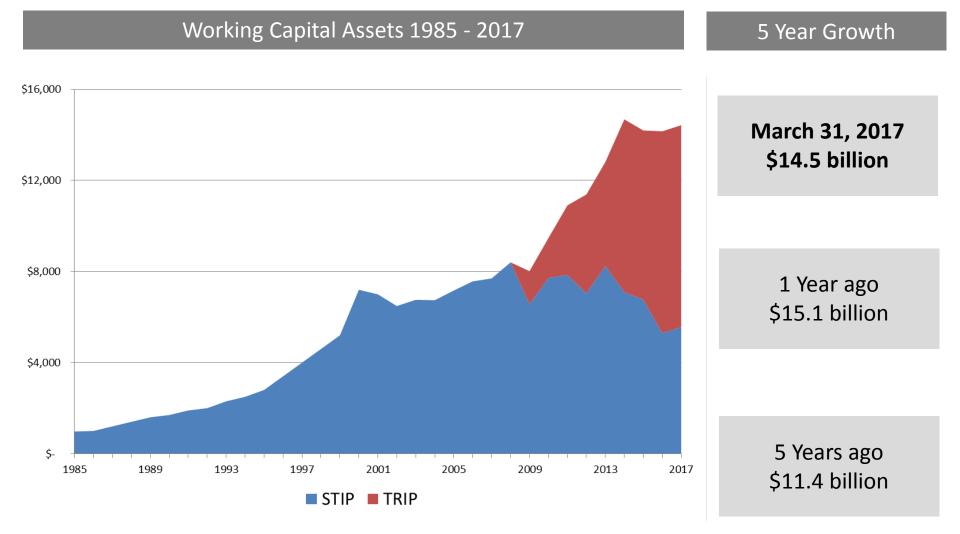
Close to target risk allocation

### Performance

- Healthy absolute performance driven by growth assets
- TRIP "outperformed" STIP by 4.3% for Fiscal Year to Date



## Working Capital: 60% TRIP, 40% STIP



As of March 31, 2017



### **Total Return Assets**

### **Assets Under Management Attribution**

Assets Under Management June 30, 2016	\$8.87 billion
Market Gains	\$0.36 billion
Value Added	\$0.09 billion
Net Cash Flow	(\$0.45 billion)
Assets Under Management March 31, 2017	\$8.87 billion



# How is TRIP Positioned?

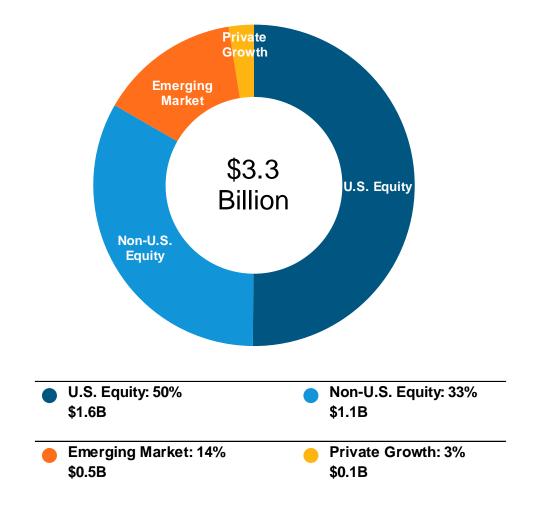


## **Total Return Asset Allocation**

Relative Weight	As of March 31, 2017	Market Value in \$ Billions	Percentage	Over/Underweight Relative to Policy	Policy Weight
	Growth	3.3	37.0%	2.0%	35.0%
	Public Growth	3.2	36.0%		
	Private Growth	0.1	1.0%		
	Income	4.2	47.7%	-2.3%	50.0%
	Public Income	3.8	42.6%		
	Private Income	0.4	5.1%		
Ļ	Absolute Return	1.2	13.8%	-1.2%	15.0%
	Absolute Return	1.2	13.8%	-1.2%	
	Cash	0.2	1.5%	1.5%	0.0%
	Total TRIP	8.9	100.0%	0.0%	100.0%



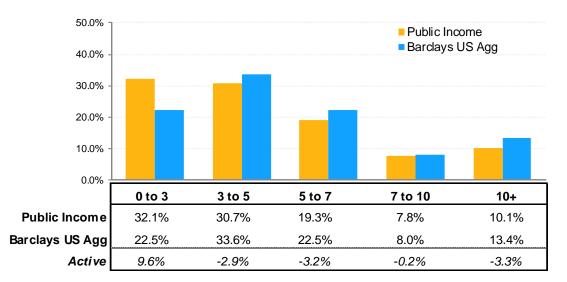
## Growth Portfolio: Public Equity 100% passive



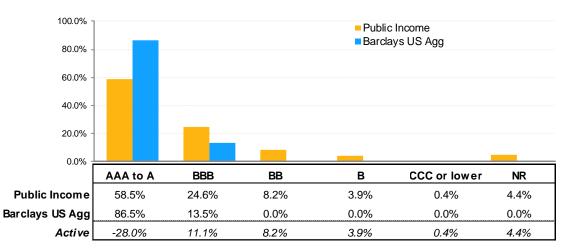


### Public Income Portfolio

#### **Maturity Profile:**



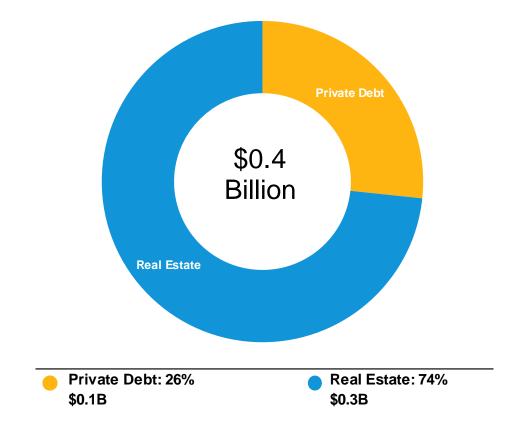
**Rating Distribution** 



As of March 31, 2017



### Private Income Portfolio



As of March 31, 2017



# How did TRIP Perform?



### **Total Return Performance**

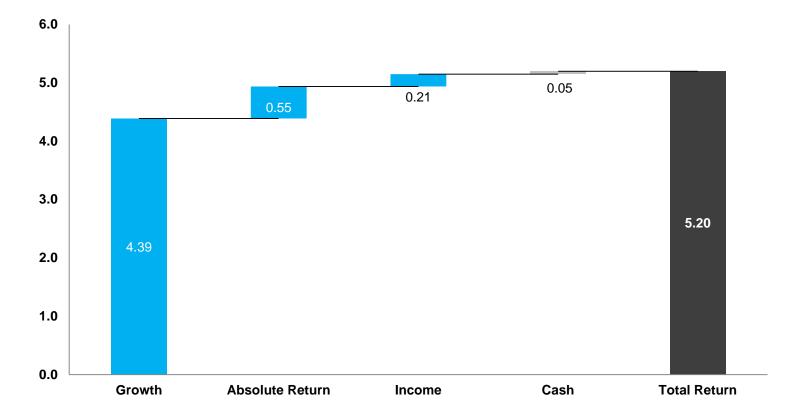
Net Returns (%)		Annualized Returns									
As of March 31, 2017	3 Month F	iscal YTD	1 Year	3 Year	5 Year	7 Year	Since In (Augus	ception st 2008)			
Total Return	3.1	5.2	6.8	4.2	6.2	6.9		7.0			
Total Return Benchmark	2.8	4.1	5.7	3.6	5.8	6.4		6.4			
Value Added	0.3	1.1	1.1	0.6	0.4	0.5		0.6			
Net Returns (%)			0	ne Year Re	turns						
As of March 31	2017	2016	2015	2014	2013	2012	2011	2010			
Total Return	6.8	(1.5)	7.6	8.2	10.6	7.6	9.1	25.0			
Total Return Benchmark	5.7	(1.1)	6.5	8.3	10.0	6.8	9.3	27.4			
Value Added	1.1	(0.4)	1.1	(0.1)	0.6	0.8	(0.2)	(2.4)			

Policy benchmark as of July 1, 2015 is 50% Barclays US Aggregate Index + 35% MSCI All Country World Index + 15% HFRX Absolute Return Index. Prior is a weighted average composite of the historical policy benchmarks and targets.



### **Total Return Performance**





As of March 31, 2017



## Performance Attribution – Fiscal YTD

As of March 31, 2017	Average Weight	Active Weight	Allocation Weight Attribution		Total Attribution
Equity					
Public Growth	34.9	-0.1	+0.0	-0.6	-0.6
Private Growth	0.9	+0.9	+0.1	+0.0	+0.1
Income					
Public Income	45.2	-4.8	+0.2	+0.9	+1.1
Private Income	5.2	+5.2	+0.0	+0.0	+0.0
Absolute Return					
Absolute Return	12.7	-2.3	+0.0	+0.5	+0.5
Cash	1.1	1.1	+0.0	+0.0	+0.0
Total TRIP	100%	0%	+0.3%	+0.8%	+1.1%



### Income Performance

Net Returns (%)	Market Value	Market Value					Annualized Returns			
As of March 31, 2017	(\$ Million)	% Allocation	3 Months	Fiscal YTD	1 Year	3 Year	5 Year	7 Year	Inception	
Income	4,226	100%	1.1	0.4	2.6	3.2	3.8	5.2	6.5	
Barclays U.S. Aggregate Bon	d Index		0.8	(1.7)	0.4	2.7	2.3	3.5	4.7	
Value Added			0.3	2.1	2.2	0.5	1.5	1.7	1.8	
Public Income	3,776	89%	1.1	0.0	2.4	-	-	-	3.2	
Private Income	450	11%	1.3	4.4	3.4	-	-	-	2.6	

Policy benchmark as of July 1, 2015 is Barclays US Aggregate Index and is shown for all periods. There was no total TRIP income performance composite and total income policy benchmark didn't exist prior to July 1, 2015. Policy would be a weighted average composite of the historical policy benchmarks and targets. Inception date is August 1, 2008



## **Growth Performance**

Net Returns (%) Market Value Annualized Returns									
As of March 31, 2017	(\$ Million)	% Allocation	3 Months	Fiscal YTD	1 Year	3 Year	5 Year	7 Year	Since Inception
Growth	3,270	100%	6.7	13.8	14.4	5.1	10.0	9.0	6.7
MSCI All Country World IMI TF Ir	ndex (net dividends	;)	6.7	14.3	15.4	7.7	10.7	7.4	6.1
Value Added			0.0	-0.5	-1.0	-2.6	-0.7	1.6	0.6
Public Growth	3,186	97%	6.7	13.8	14.3	5.1	10.0	9.0	6.7
Private Growth	84	3%	3.3	14.3	14.3	-	-	-	19.3

Policy benchmark as of July 1, 2015 is MCSI ACWI IMI TF and is shown for all periods. Policy would be a weighted average composite of the historical policy benchmarks and targets. Inception date is August 1, 2008



## Absolute Return Performance

Net Returns (%)	Market Value	Market Value			Annualized Returns			
As of March 31, 2017	(\$ Million)	% Allocation	3 Months	Fiscal YTD	1 Year	3 Year	Since Inception	
Absolute Return	1,223	100%	0.9	4.5	4.0	2.2	2.8	
HFRX Absolute Return			0.7	1.2	1.5	1.7	2.6	
Value Added			0.2	3.3	2.5	0.5	0.2	

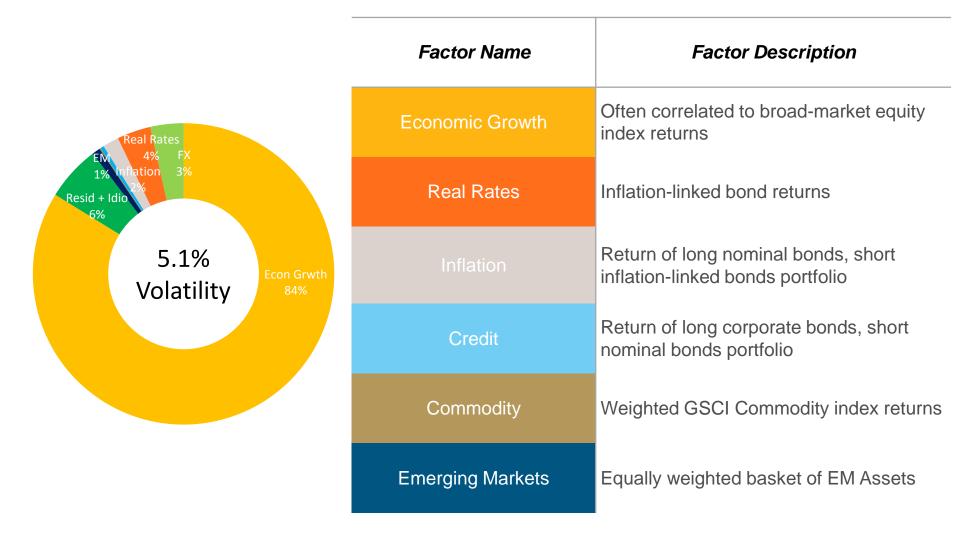
\* Prior to July 1, 2015, the portfolio benchmark was 50% HFRX Absolute Return + 50% HFRX Market Directional. Thereafter the benchmark has been the HFRX Absolute Return. Since inception date of Absolute Return August 2013.



# How did TRIP Perform?



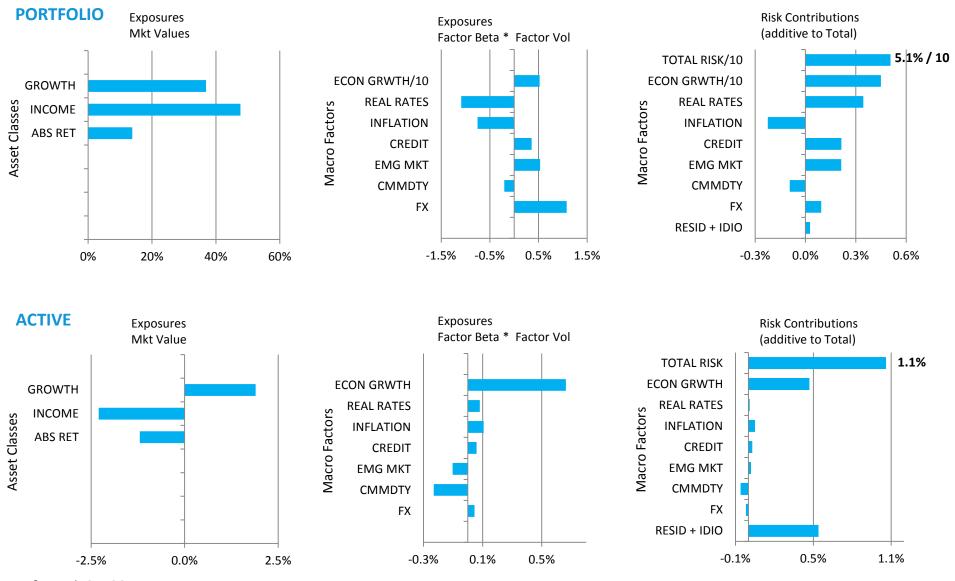
## High Level Macroeconomic Risk Factors



As of March 31, 2017



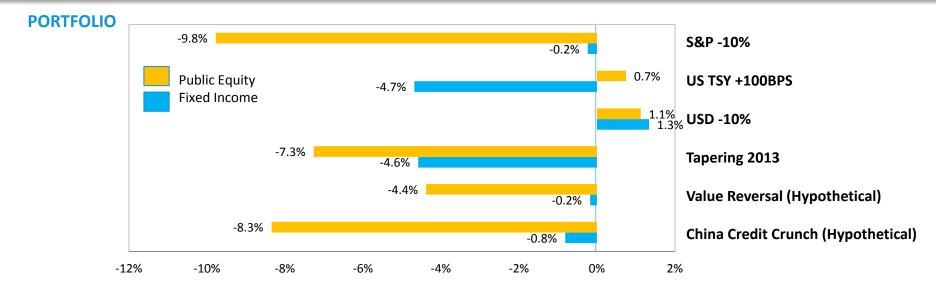
### Asset Classes versus Macroeconomic Factors



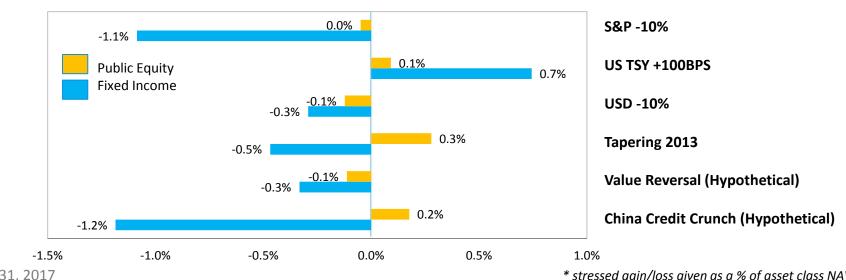
As of March 31, 2017



## **Stress Tests and Scenario Analysis**







As of March 31, 2017

\* stressed gain/loss given as a % of asset class NAV



### **TRIP Risk Measurement**

	Beta vs Benchmark	Portfolio R	isk (%)	Benchmark	Risk (%)	Active Risk (%)		
Name	Current	Standalone Volatility	QoQ Change	Standalone Volatility	QoQ Change	3	QoQ Change	
TRIP Total	1.02	5.1	(0.2)	4.5	(0.4)	1.1	0.2	
Income	0.79	3.2	(0.1)	3.5	(0.2)	1.6	(0.1)	
Growth	1.00	11.8	(1.4)	11.8	(1.4)	0.4	(0.1)	
Absolute Return	0.57	3.3	2.4	1.3	(0.1)	3.2	1.7	
Cash	0.00	0.4	0.4	0.0	0.0	0.4	0.4	



# How is STIP Positioned?

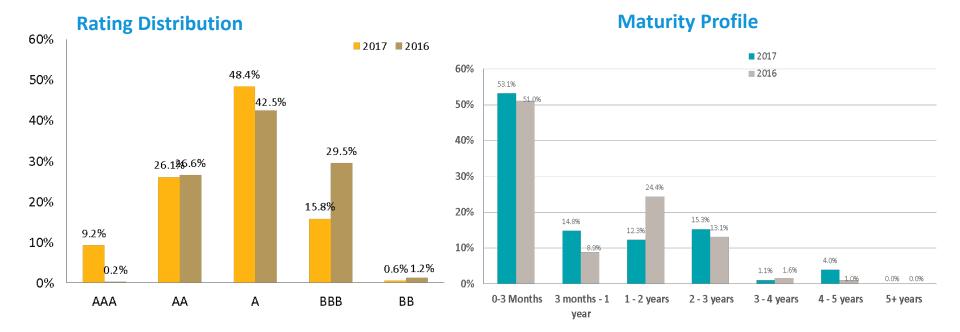


## **STIP** Assets

Assets Under Management A	Attribution	Asset Allocation As of March 31, 2017					
Assets Under Management June 30, 2016	\$5.29 billion	Corporates	\$1.76	31.7%			
Market Gains	\$0.02 billion	Commercial Paper	\$2.34	42.1%			
Value Added	\$0.06 billion	Governments	\$1.32	23.7%			
Net Cash Flow	\$0.19 billion	Cash	\$0.14	2.5%			
Assets Under Management March 31, 2017	\$5.56 billion	Total	\$5.56 billion	100.0%			



### Portfolio Composition: Shorter duration, higher credit quality relative to 2016





# How did STIP Perform?



### STIP Performance: Added value across all time horizons

Net Returns (%)		Annualized Returns							
As of March 31, 2017	3 Month Fisca	I YTD	1 Year	3 Year	5 Year	7 Year	10 Year	20 Year	
Short Term	0.3	0.9	1.2	1.3	1.6	1.8	2.5	3.7	
Policy Benchmark	0.2	0.4	0.6	0.5	0.4	0.4	0.9	2.6	
Value Added	0.1	0.5	0.6	0.8	1.2	1.4	1.6	1.1	

Net Returns (%)		Annual Fiscal Year Returns								
As of March 31	2017	<b>2016</b>	<b>2015</b>	2014	2013	2012	2011	2010	2009	2008
Short Term	1.2	1.2	1.4	1.6	2.3	2.4	2.7	2.9	3.9	4.9
Policy Benchmark	0.6	0.5	0.4	0.2	0.2	0.3	0.6	0.8	1.9	4.0
Value Added	0.6	0.7	1.0	1.4	2.1	2.2	2.1	2.0	2.0	0.9

STIP Policy Benchmark is 66% 2 Year Treasury Income Note + 34% 30-Day Treasury Bill