

# OPERATING FUNDS IN A RISING RATE ENVIRONMENT

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#### **NEPC'S 23RD ANNUAL INVESTMENT CONFERENCE**

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# OPERATING FUNDS: ACHIEVING THE OPTIMAL BALANCE

#### **CRITICAL OBJECTIVES**

- Higher returns in low-return environment
- Improve days cash on hand (DCOH)
- Maximize liquidity

#### **MAJOR CONSTRAINTS**

- Operational needs
- Rating agencies
- Debt covenants



#### **NEPC ADVANTAGES**

Experience · Tools · Return Generation



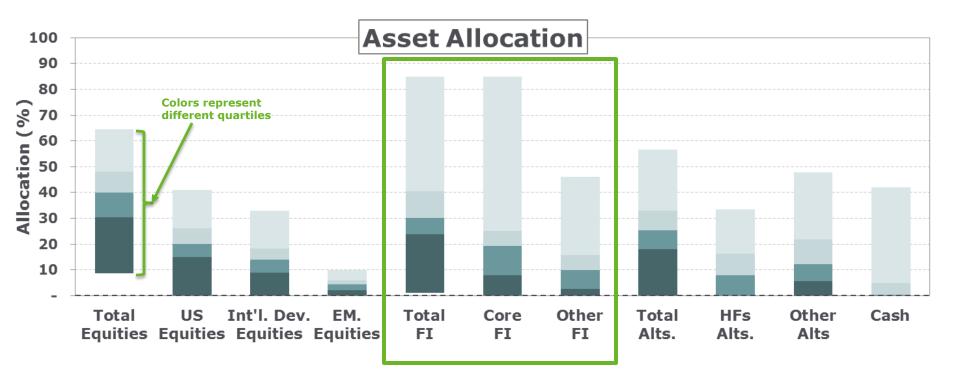
#### **ENTERPRISE RISK MANAGEMENT**

We built the Enterprise Risk Management model as smarter way to look "under the hood" of a health system. It helps identify and assess risk within the context of asset allocation. It is a real-world paradigm with inputs and outputs that provide a roadmap.





#### **ASSET ALLOCATION VS. TOTAL UNIVERSE**

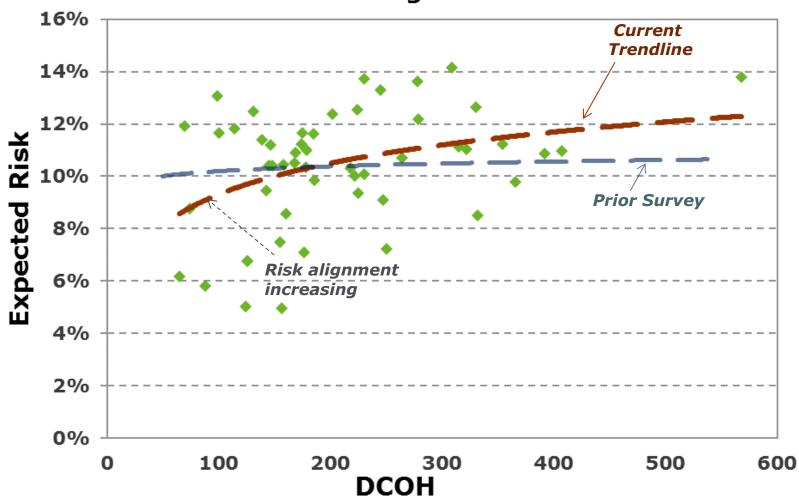


- Results for the 2017 Operating Fund Survey will be released this quarter
- Operating pools with significant allocations to fixed income need to be aware of and comfortable with their total organizational interest rate risk exposure



# **RISK ALIGNMENT INCREASES**







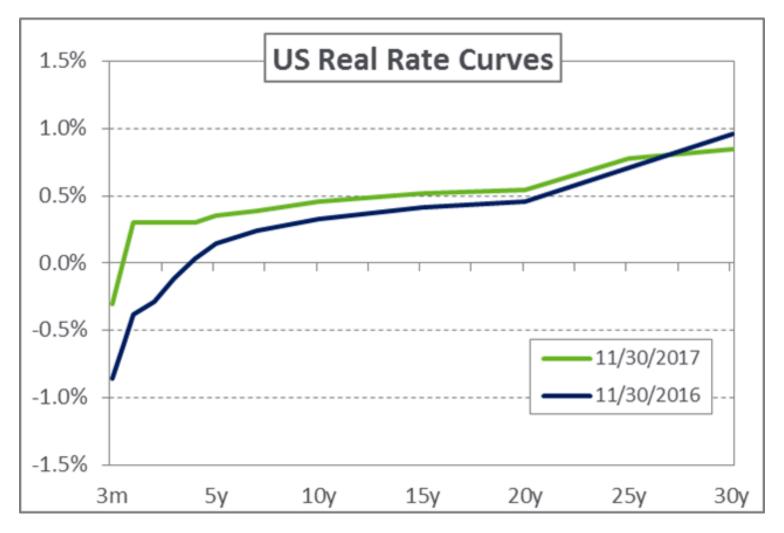
# **MARKET OUTLOOK**

# 5-7 YEAR RETURN ASSUMPTIONS

	Asset Class	5-7 Year Return	Change 2018-2017	Volatility	
	Cash	2.00%	+.25%	1.00%	
	US Inflation	2.50%	-	-	
Equity	Large Cap Equities	5.25%	50%	17.50%	
	International Equities (Unhedged)	7.50%	+.25%	21.00%	
	Emerging International Equities	9.00%	50%	28.00%	
	Private Equity	8.00%	25%	23.00%	
Rates/Credit	Treasuries	2.25%	+.25%	5.50%	
	Core Bonds	2.75%	+.10%	5.99%	
	Municipal Bonds 1-10 Year	2.50%	-	5.50%	
	High Yield Bonds	3.75%	-1.00%	13.00%	
	Private Debt	6.50%	75%	13.00%	
Real Assets	Commodities	4.75%	-	19.00%	
	REITs	6.50%	-	21.00%	
	Core Real Estate	5.75%	25%	13.00%	
Multi- Asset	US 60/40*	4.54%	24%	10.99%	
	Global 60/40*	4.91% <b>13%</b>		11.78%	
	Hedge Funds*	5.83%	10%	9.07%	



### **US REAL RATES**



- Real yields are marginally higher relative to last year
- Long-term expectations for real yields remain positive but low in the US



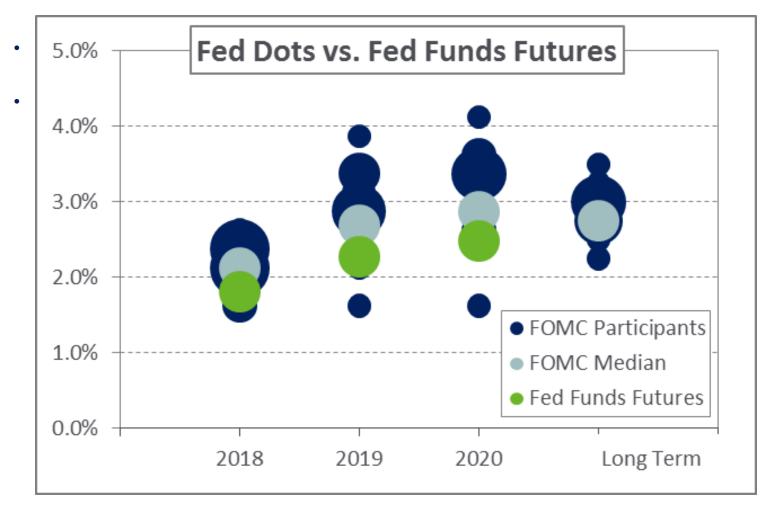
# RISING CPI DRIVEN BY ENERGY RECOVERY







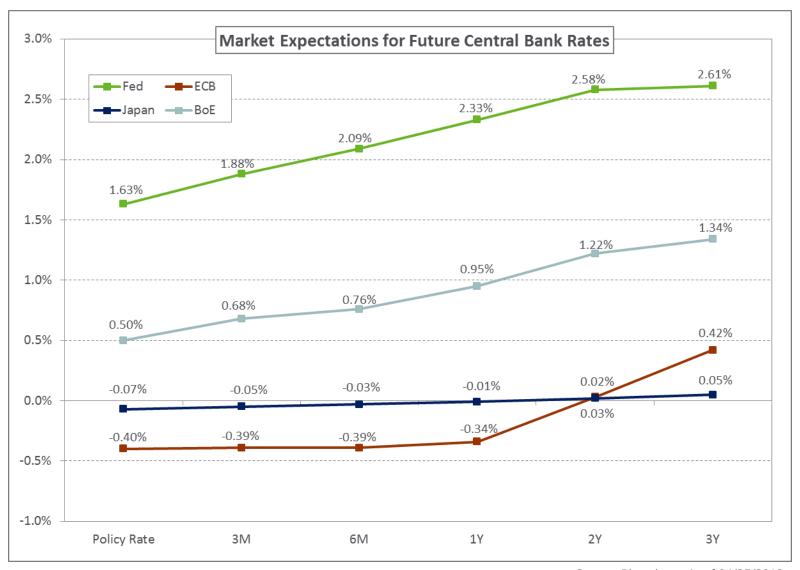
## FEDERAL RESERVE GRADUALISM

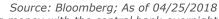


- The Federal Reserve is expected to slowly increase interest rates
- Expected path of Fed policy through 2020 matters more than timing of the next hike



## SUBDUED RATE INCREASES EXPECTED





ECB rate uses the deposit facility rate, which defines the interest banks receive for depositing money with the central bank overnight



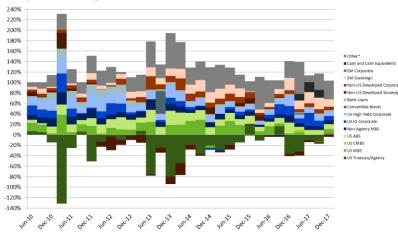
# ALTERNATIVES TO CORE

#### **CURRENT OPPORTUNITIES**

#### Allocate to Absolute Return from Core

- Absolute Return Fixed Income provides a liquid, diversified return source, uncorrelated to interest rate and equity markets
  - Absolute Return represents global, unconstrained, benchmark agnostic income strategies that seek positive returns independent of market cycles
  - Can be used as a Core/Core Plus fixed income replacement as target volatility is similar
- Most Absolute Return strategies are positioned in expectation of rising rates
  - Many managers have a duration of less than half that of the Bloomberg Barclays Aggregate, which is currently near 6 years
  - The lower duration exposure will help protect against losses in a rising rate environment





Firm/Product	Duration Emphasis	Weighted Average Coupon (%)	Yield to Maturity (%)		Duration (Years)	Average Quality	Minimum Quality			
Absolute Return Fixed Income										
FPL Manager #1	Core/All Durations	3.5	3.7	7.78	2.37	BBB	NA*			
FPL Manager #2	Short	2.2	2.1	11.70	-0.17**	AA	В			
FPL Manager #3	Short	3.7	5.1	3.26	1.69	ВВВ	CCC			
FPL Manager #4	Core/All Durations	3.6	3.0	4.07	2.51	ввв	CC			
FPL Manager #5	Short	2.8	3.4	2.01	1.39**	А	NA*			
FPL Manager #6	Intermediate	2.1	4.3	8.48	5.00**	А	NA*			

<sup>\*</sup>No minimum quality issue



<sup>\*\*</sup>Modified duration is not reported. Effective duration is shown.

#### **CURRENT OPPORTUNITIES**

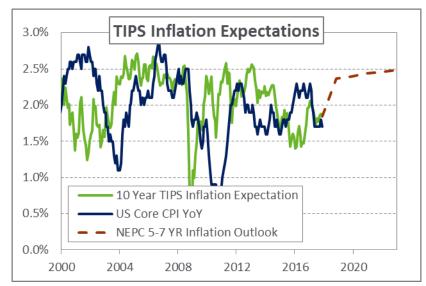
#### Allocate to TIPS from Core Bonds

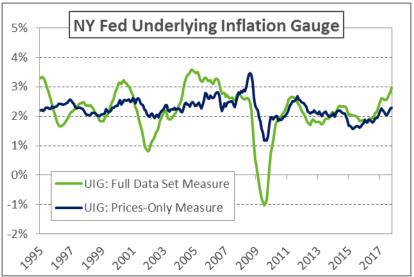
#### Duration exposure remains a key asset allocation building block for a diversified portfolio

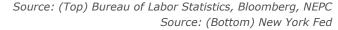
- TIPS offer safe haven exposure with an explicit hedge for realized inflation and can be implemented with a low cost passive strategy
- Current core bond yields offer limited cushion before taking on losses in a rising interest rate environment

#### Increase in inflation expectations would favor TIPS over nominal bonds

- TIPS yields are priced off real rates and sensitive to Fed tightening but a gradual path of normalization should mitigate the risk of a sharp rise in real interest rates
- An allocation to TIPS diversifies core bond exposure and improves risk balance across economic environments









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