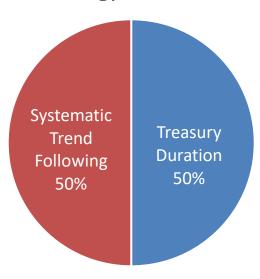


ERSRI CPC Portfolio

Board-approved structure for CPC Portfolio:

Strategy Allocation



- 8% allocation
- 50% Treasury Duration / 50% Systematic Trend Following
- Relatively Simple and Low Cost
- Likely to produce appreciation during a growth crisis
- Class volatility similar to that of the total portfolio



Crisis Protection Class: Systematic Trend Following (STF) Managers

RI Investment Staff / PCA joint recommendation:

- Credit Suisse
- Crabel
- Welton
- ~ \$300 million (4% of total fund assets)
- Propose an equal capital allocation to each managers (\$100mm each)

Portfolio mandate:

- Broadly diversified, liquid, systematic trend following strategies
- Products primarily employ medium-term, average lookback
- Products managed to ~ 18% volatility target
- Portfolio benchmark: Credit Suisse Managed Futures Target Vol 18 Index



STF Manager Selection Process: Investment Staff and PCA Evaluation

Manager due diligence process:

- Manager Request for Information (" RFI") document issued December 9, 2016
- Proposer responses due January 6, 2017
- Ten firms submitted proposals (list on next page)
- Proposals reviewed / rated by investment staff and PCA
- Conference call with proposers seeking additional information
- On-site due diligence meetings: Aspect, Crabel, Credit Suisse, Welton
- Best and Final fee proposals reviewed
- Reference checks
- Proposals rerated / manager recommendation to SIC:
 - Crabel
 - Credit Suisse
 - Welton

Other milestones:

- Platform manager selected March 2017
- Platform manager operational due diligence April 2017
- CPC portfolio projected funding May June 2017



STF Manager Submissions: Investment Staff and PCA Evaluation

Submitted Proposals	Low Fees / Competitive Product	Finalists via Scoring	Recommended
 Alpha Simplex Aspect Crabel Credit Suisse Fort Graham Capital GSA Man / AHL Rotella Welton 	Alpha Simplex Aspect Crabel Credit Suisse GSA Welton	Aspect Crabel Credit Suisse Welton	Crabel Credit Suisse Welton

- Onsite reviews were conducted with each finalist
- Aspect is the alternate



Recommended STF Manager Descriptions:

Credit Suisse – CS Managed Futures Target Vol 18 Index

- Index replication
- Pure trend strategy
- Trades a total of 18 futures contracts
- Provides liquid and diversified exposure to market trends across the four main asset classes
- The strategy tracks 16 time horizon signals to identify trends across various horizons
- Simple, liquid and low cost. 23.5 bps management fee.

Crabel – Advance Trend (target 18 volatility)

- Pure trend strategy, alter lookback period based on market environment, responsive
- Trades 200 markets, most diversified of managers recommended, highest expected return
- Crabel is an excellent trader, lowest trading costs by a factor of at least 4x
- Utilized trading intelligence gathered via their flagship multi-product to benefit this strategy
- 50 bps management fee, extremely low trading cost.

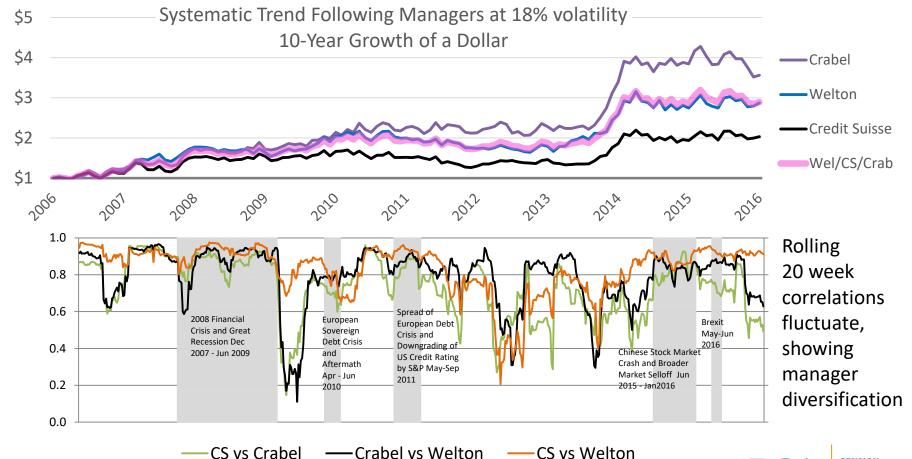
Welton - Global Trend Following (target 18 volatility)

- Three different trend models
- Time series trend model, statistical trend model, and breakout (distance related) model
- Most reactive, can respond inter-day if movements are significant enough
- Trade approximately 60 markets
- Low cost. 29 bps management fee with admin fee.



Selected STF Manager and STF Portfolio Analysis

- Managers are all highly correlated (capturing trends), but diversify one another at key times
- Crabel has the highest return (most diversified by markets), Credit Suisse is lowest return (index)
- Welton is lower cost and we expect them to be more responsive in crisis periods



Systematic Trend Following Managers: Guidelines

- Guidelines for Individual Managers
 - 1) Target average volatility 18%
 - 2) Maximum drawdown 27%
 - Margin to equity review limit 36%
 - Margin to equity maximum 50% (requiring a cure within 2 days)
 - 5) Outperformance relative to CS Index over 5 year period
- STF <u>portfolio</u> expectations
 - 1) Target volatility 16.75%
 - 2) Maximum drawdown 25%
- Managers run their systems according to systematic rules
- Portfolio positions change constantly according to the systematic rules
- Markets traded can be added, subtracted, changed
- However, system changes are rare

^{*} Margin to equity is calculated by the exchange, limiting margin available to investors based on the market environment.



Systematic Trend Following Managers Best And Final Fee Proposal

- Investment staff negotiated best and final fees from the manager
- The fee will comply with Most Favored Nation Clause (MFN) there is no other client with the same mandate and a lower fee
- Crabel Advanced Trend 50 basis points management fee
- Credit Suisse Managed Future 18% Target Vol Index 23.5 bps management fee
- Welton Global Trend Following 29 basis points management fee with pass through administrative fee



Crisis Protection Class Expected Implementation Timeline

- Platform manager hired
 - Contracting complete April 1
 - Counterparty and service provider agreements negotiated and contracted (May)
- Platform manager operational due diligence systematic trend following managers
 - Completed (April)
- Systematic trend following manager selection SIC (April)
 - Contracting complete (May)
 - Manager guidelines approved (May)
- Long-Duration U.S. Treasury portfolio funded (May / June)
- Systematic trend following manager portfolio funded (May / June)



DISCLOSURES: This document is provided for informational purposes only. It does not constitute an offer of securities of any of the issuers that may be described herein. Information contained herein may have been provided by third parties, including investment firms providing information on returns and assets under management, and may not have been independently verified. The past performance information contained in this report is not necessarily indicative of future results and there is no assurance that the investment in question will achieve comparable results on that the Firm will be able to implement its investment strategy or achieve its investment objectives. The actual realized value of currently unrealized investments (if any) will depend on a variety of factors, including future operating results, the value of the assets and market conditions at the time of disposition, any related transaction costs and the timing and manner of sale, all of which may differ from the assumptions and circumstances on which any current unrealized valuations are based.

Neither PCA nor PCA's officers, employees or agents, make any representation or warranty, express or implied, in relation to the accuracy or completeness of the information contained in this document or any oral information provided in connection herewith, or any data subsequently generated herefrom, and accept no responsibility, obligation or liability (whether direct or indirect, in contract, tort or otherwise) in relation to any of such information. PCA and PCA's officers, employees and agents expressly disclaim any and all liability that may be based on this document and any errors therein or omissions therefrom. Neither PCA nor any of PCA's officers, employees or agents, make any representation of warranty, express or implied, that any transaction has been or may be effected on the terms or in the manner stated in this document, or as to the achievement or reasonableness of future projections, management targets, estimates, prospects or returns, if any. Any views or terms contained herein are preliminary only, and are based on financial, economic, market and other conditions prevailing as of the date of this document and are therefore subject to change.

The information contained in this report may include forward-looking statements. Forward-looking statements include a number of risks, uncertainties and other factors beyond the control of the Firm, which may result in material differences in actual results, performance or other expectations. The opinions, estimates and analyses reflect PCA's current judgment, which may change in the future.

Any tables, graphs or charts relating to past performance included in this report are intended only to illustrate investment performance for the historical periods shown. Such tables, graphs and charts are not intended to predict future performance and should not be used as the basis for an investment decision.

All trademarks or product names mentioned herein are the property of their respective owners. Indices are unmanaged and one cannot invest directly in an index. The index data provided is on an "as is" basis. In no event shall the index providers or its affiliates have any liability of any kind in connection with the index data or the portfolio described herein. Copying or redistributing the index data is strictly prohibited.

The Russell indices are either registered trademarks or trade names of Frank Russell Company in the U.S. and/or other countries.

The MSCI indices are trademarks and service marks of MSCI or its subsidiaries.

Standard and Poor's (S&P) is a division of The McGraw-Hill Companies, Inc. S&P indices, including the S&P 500, are a registered trademark of The McGraw-Hill Companies, Inc.

CBOE, not S&P, calculates and disseminates the BXM Index. The CBOE has a business relationship with Standard & Poor's on the BXM. CBOE and Chicago Board Options Exchange are registered trademarks of the CBOE, and SPX, and CBOE S&P 500 BuyWrite Index BXM are servicemarks of the CBOE. The methodology of the CBOE S&P 500 BuyWrite Index is owned by CBOE and may be covered by one or more patents or pending patent applications.

The Barclays Capital indices (formerly known as the Lehman indices) are trademarks of Barclays Capital, Inc.

The Citigroup indices are trademarks of Citicorp or its affiliates.

The Merrill Lynch indices are trademarks of Merrill Lynch & Co. or its affiliates.

FTSE is a trademark of the London Stock Exchange Group companies and is used by FTSE under license. All rights in the FTSE indices and/or FTSE ratings vest in FTSE and/or its licensors. No further distribution of FTSE data is permitted with FTSE's express written consent.

