Verus⁷⁷⁷

PERSPECTIVES
THAT DRIVE
ENTERPRISE
SUCCESS



APRIL 2017

Risk Advisory Onboarding & Project Plan

City of San Jose

Table of contents



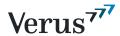
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Onboarding & project plan overview	3
Risk system & dashboard	5
Assessment – Current state & Enterprise risk tolerance	8
Design – Risk philosophy & policies	11
Risk management tool	13
Appendix: Detailed project plan	15

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Onboarding & project plan overview



Overview – Onboarding & Project Plan

				Projected
Activity/Task	Owned By	Participants	Start Date	Completion Date
Risk System Implementation	Verus/MSCI	Verus, BarraOne, SJ Staff	Q2 2017	Q4 2017
Risk Dashboard	Verus	Verus	Q1 2017	Q4 2017
Assessment – Current State	Verus	Verus, SJ Staff	Q1 2017	Q2 2017
Assessment – Enterprise Risk Tolerance	Verus	Verus, Trustees, SJ Staff	Q1 2017	Q3 2017
Design – Risk Philosophy & Policies	Verus	Verus, SJ Staff, Trustees	Q4 2017	Q2 2018
Risk Management Tool – Communication Report	Verus	Verus, SJ Staff, Trustees	Q4 2017	Q2 2018



Risk system & dashboard



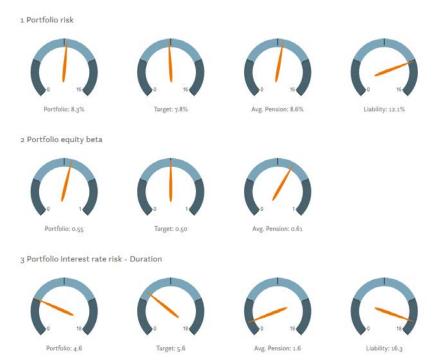
Risk System Implementation

— Implementation of the risk system starts by building infrastructure to feed San Jose's investment data into the risk system (BarraOne).

Step 1: Step 3: Step 2: Feed data into Create Audit data and the risk system procedures ensure accuracy from the around data of the loadings custodian & loading to ensure alternative timely data assets delivery

Risk Dashboard

- Verus' independently creates Risk Dashboards, which are designed for calculating and communicating the level and nature of risk in client portfolios. These are a key element of our risk management approach.
- We do not rely on one or a few numbers to look at risk, but rather use a "multiple lens approach" to look at risk.

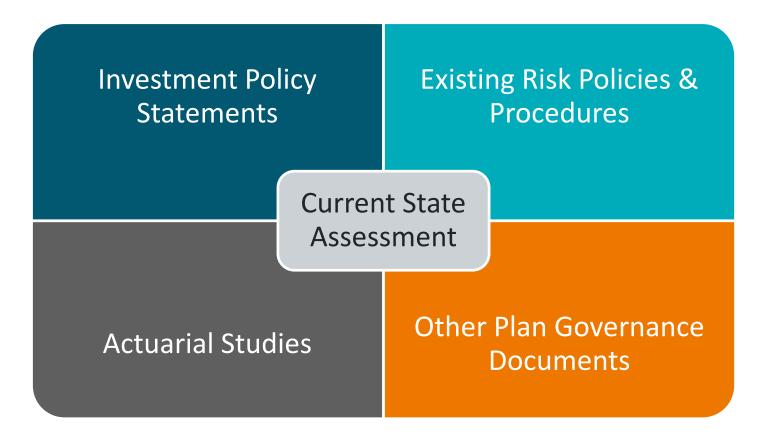


Assessment – Current state & Enterprise risk tolerance



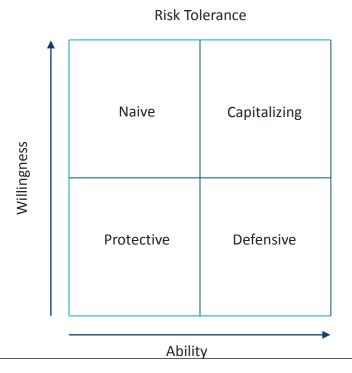
Assessment – Current State

 In order for us to develop the best risk management framework, first we need to start by reviewing important information regarding the plan as well as governing documents.



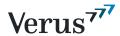
Assessment – Enterprise Risk Tolerance

- This process starts by identifying board <u>investment objectives</u> and <u>beliefs</u>.
- Enterprise Risk Tolerance involves identifying issues affecting the plan
 - This will help us determine both the <u>willingness</u> and <u>ability</u> to accept risk.
- Risk management education will be critical in this process to help the board to make more informed decisions.



Properly
assessing
Enterprise
Risk
Tolerance
has
important
and practical
implications
for
investment
strategy
development

Design – Risk philosophy & policies



Design – Risk Philosophy & Policies

- Risk management is a culture, not a system.
- There are many useful tools available to quantify various investment risks, but it is more critical that the investment committees, staff, and consultants are appropriately thinking about risk.
 - Naturally, when an organization uses a framework that is relevant for everyone involved, communication is greatly improved.
- Solidifying risk philosophy and policies will increase the likelihood of successfully implementing a risk management framework and ensuring it is included in decision-making going forward.

Risk management tool



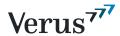
Risk Management Tool – Communication Report

Risk management involves understanding the major drivers of risk in your portfolio and ensuring the exposures to those risks are intentional. Communication reports will be customized based on risk philosophy and policies and may include:

- Active Risk
- Relative Factor Risk
- Asset class weight
- Tail Risk
- Beta
- Duration
- Leverage



Appendix: Detailed Project Plan



San Jose Risk Advisory Onboarding & Project Plan

