



MAKE TOMORROW, TODAY



WEALTH

Understanding, Measuring and Managing Portfolio Risk

Don't Try This at Home!

August 2019

RISK – BE SURE YOU KNOW WHAT YOU ARE DEALING WITH!!



MERCER INVESTMENT PHILOSOPHY

FIVE CORE ELEMENTS



RISK IS MULTI-DIMENSIONAL

MEASURING AND MONITORING RISK



SETTING AND TESTING INVESTMENT STRATEGY SOPHISTICATED MODELLING TOOLS

CAPITAL MARKETS SIMULATOR Market aware stochastic modelling

- Determines long term asset class assumptions based on a range of simulated financial and economic data such as economic growth, price inflation, government bond yields, corporate spreads, equity yield and currencies.
- Creates a distribution of returns, risk and correlations for each asset class through a process of 2,000 sets of simulations.
- Produces two sets of capital market assumptions:
 - **Steady State:** These reflect the long term expectations for markets: up to 20 years
 - **Market Aware:** These reflect the current pricing of markets and a reversion to the Steady State expectations over a medium term time frame.
- Used for determining the probability of meeting objectives and for strategic portfolio construction.

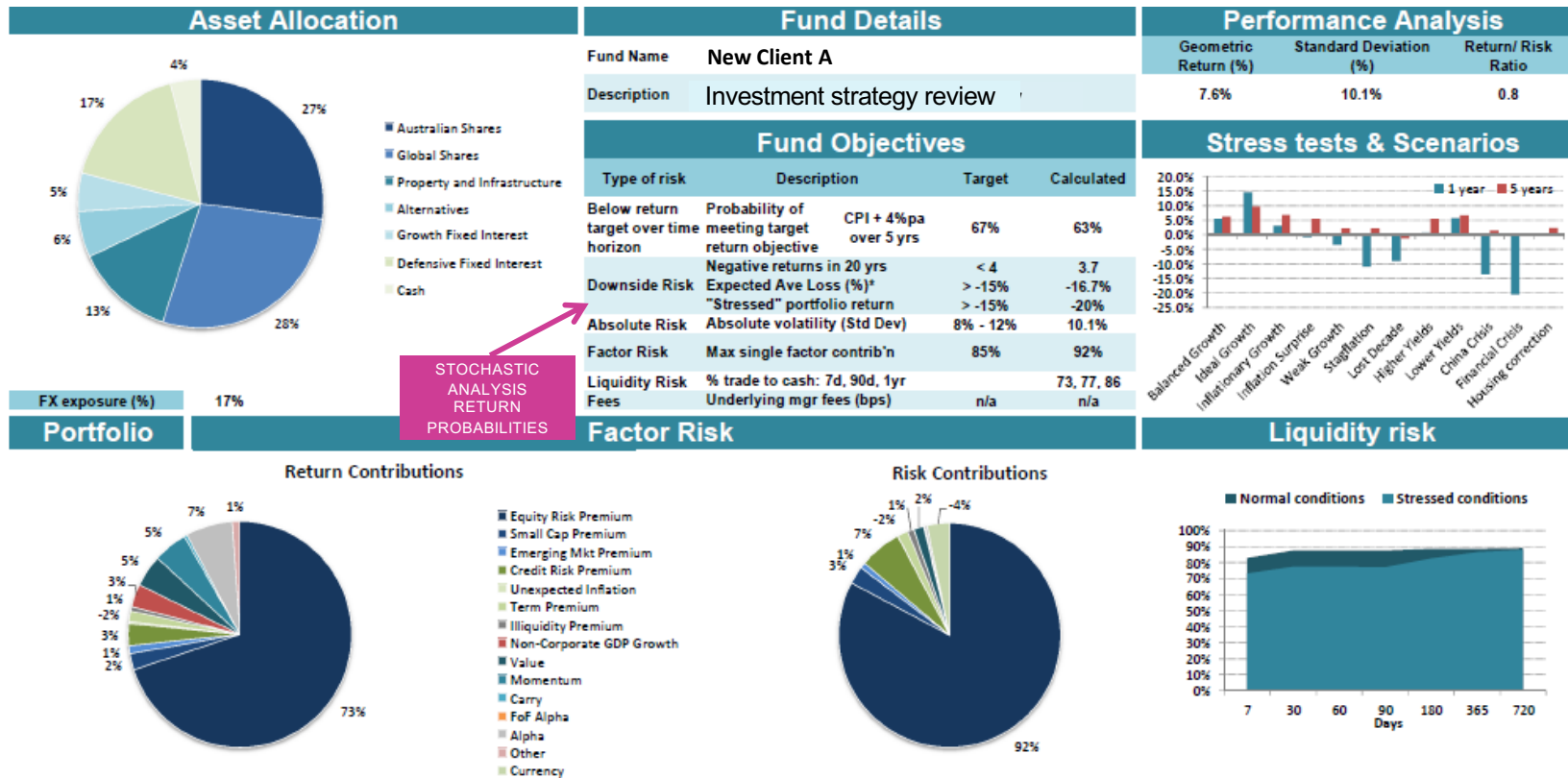
SETTING AND TESTING INVESTMENT STRATEGY SOPHISTICATED MODELLING TOOLS

GLOBAL PORTFOLIO TOOLKIT Risk Factor Analysis

- Measures and apportions risk within a portfolio associated with particular factors such as
 - equity risk premium or small cap premium
 - credit
 - Illiquidity
 - value
 - momentum
- Helps to measure and understand the true correlations within a portfolio.

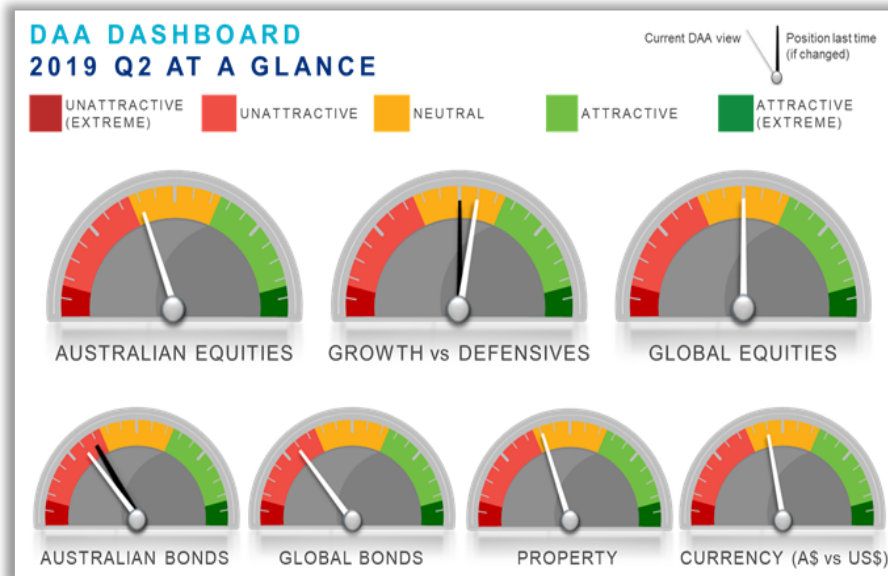
SETTING AND TESTING INVESTMENT STRATEGY

RISK DASHBOARD



DYNAMIC ASSET ALLOCATION

Mercer's DAA process



Asset class views

NEUTRAL	Expected to perform in line with Mercer's long-term return assumption over two years
ATTRACTIVE (Unattractive)	Expected to exceed (lag) Mercer's long-term return assumption over two years
EXTREMELY ATTRACTIVE (Extremely unattractive)	Expected to outperform (underperform) Mercer's long-term assumption substantially over two years (<i>Substantially is considered to be outside a range of +/- 15% of the cumulative performance over two years based on Mercer long-term assumptions</i>)