# Intelligent Financial Planning Decisions



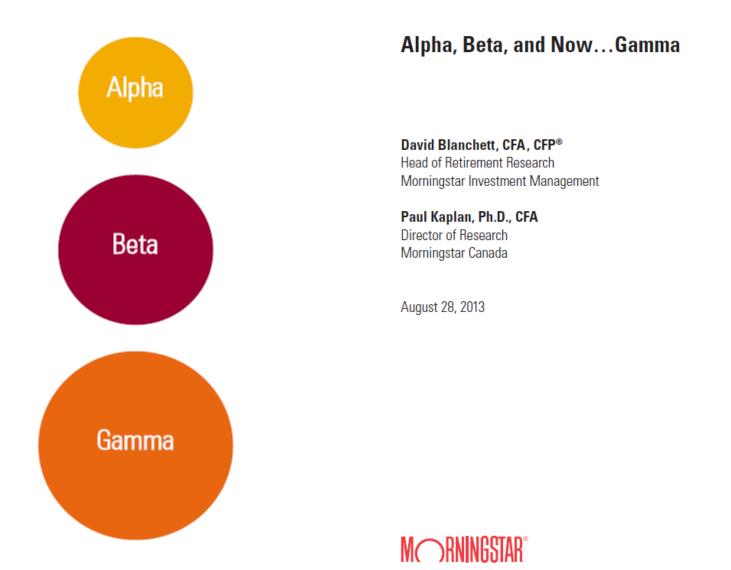
#### Kittikun Tanaratpattanakit

Senior Research Analyst Morningstar Research (Thailand) Ltd. Why Do people Seek Help?





#### Alpha, Beta and Now...Gamma



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## Different Types of Gamma



Total Wealth Asset Allocation



Dynamic Withdrawal Strategy



Annuity Allocation



Tax Alpha



Liability-Relative Optimization





# **Total Wealth Asset Allocation**



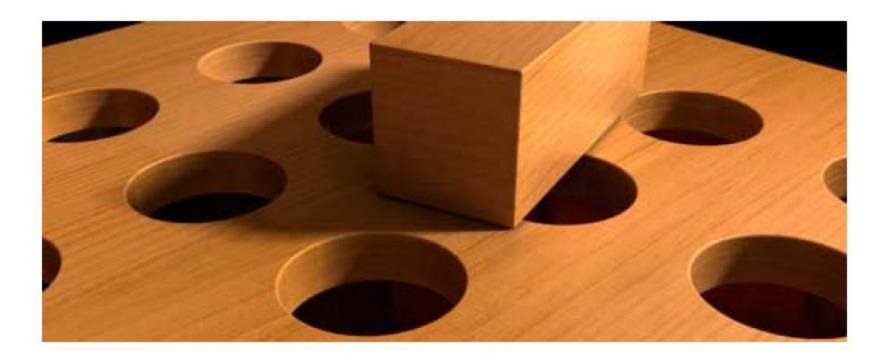
## No Portfolio is an Island

- Isolated focus on financial assets (e.g. stock and bonds)
- Objective: Find most efficient combination of available financial assets



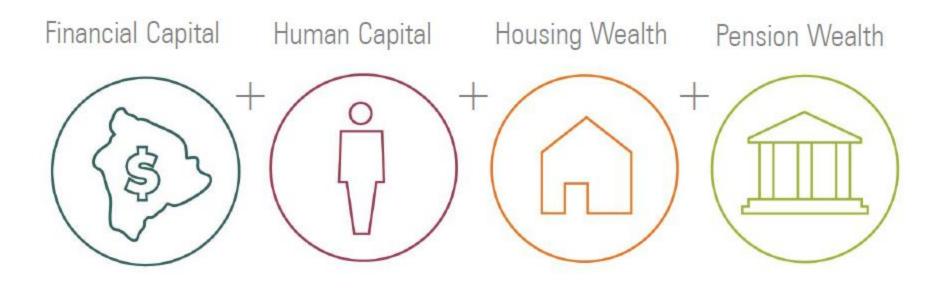


## One Size Does Not Fit All





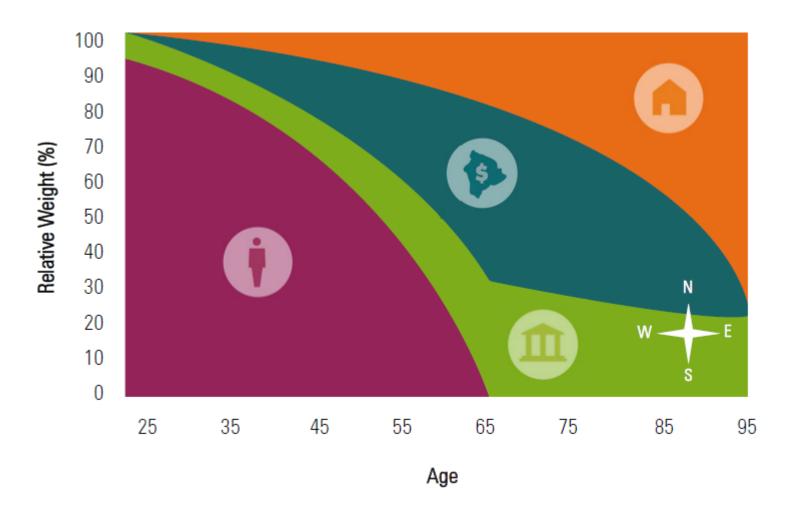
## A Total Wealth View

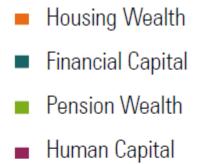


= Total Economic Wealth



### A Total Wealth Perspective Over the Lifecycle





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#### Thailand

- Know Your Client Process– Standard risk questionnaire
  - Focus primarily on risk preference (i.e., an investor's aversion to risk) and ignore risk capacity (i.e., an investor's ability to assume risk)
- A combination of risk preference and risk capacity is an ideal



# Dynamic Withdrawal Strategy



#### Where did the 4% rule come from

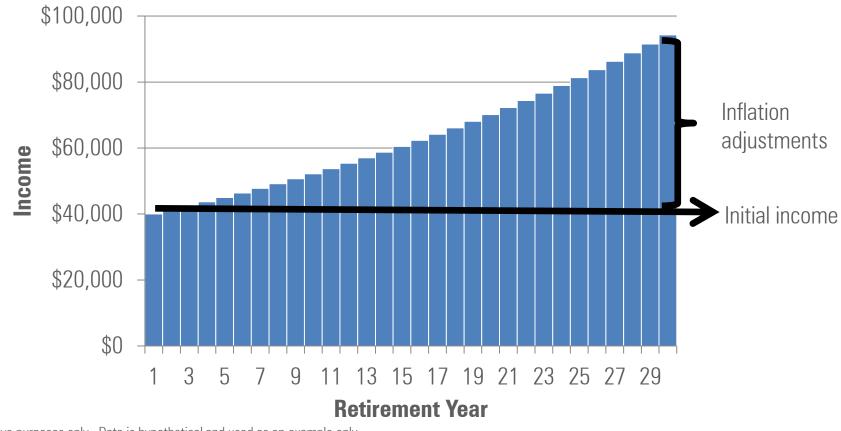


Bengen, William P. 1994. "Determining Withdrawal Rates Using Historical Data." Journal of Financial Planning, vol. 7: 171–180.

- "At the onset of retirement, investment advisors make crucial recommendations to clients concerning asset allocation, as well as dollar amounts they can safely withdraw annually, so clients will not outlive their money."
- "... it pays to look not just at averages, but at what actually has happened, year-by-year, to investment returns and inflation in the past."
- What is the best strategy if you don't know:
  - how long the clients are going to live
  - how much money they'll spend each year
  - what asset returns or inflation will be

## Initial Sustainable Withdrawal Rate %—Where the 4% Rule Comes From

The % withdrawal rate applies for first year only, then increased by inflation

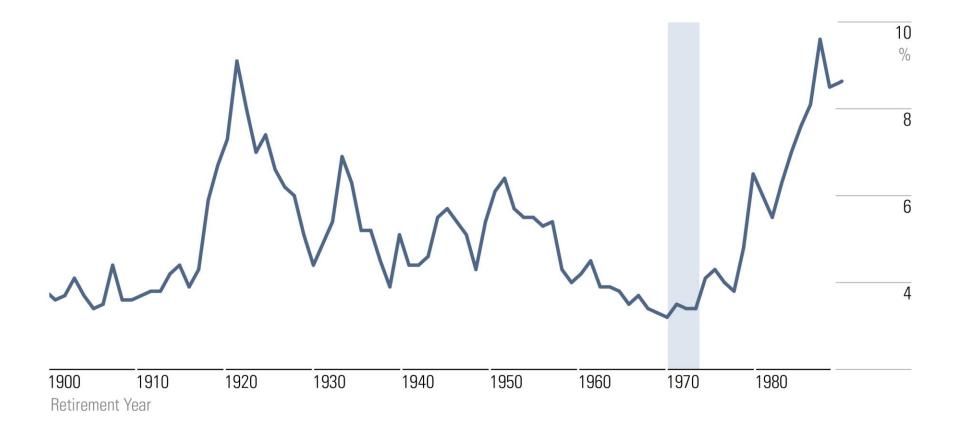


For illustrative purposes only. Data is hypothetical and used as an example only.



## Initial Sustainable Withdrawal Rate %-Where the 4% Rule Comes From

Portfolio of 50% US shares and 50% US bonds, using historical returns Maximum Withdrawal rate for a 30 year period, with the starting point varying by year The idea of "safe" was measured by the likelihood that you would still have money left after 30 years.



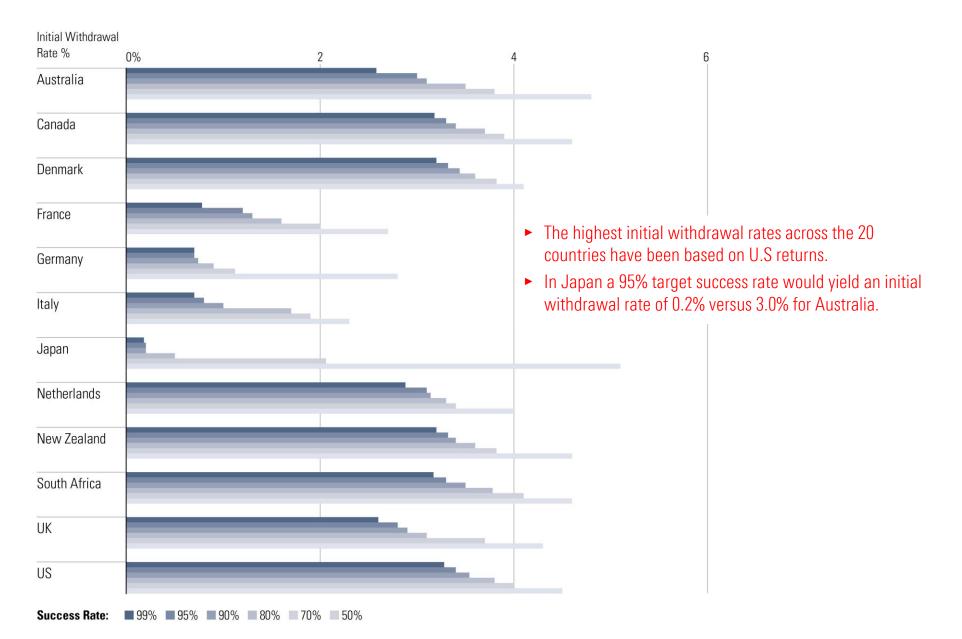
#### Research Papers on Sustainable Withdrawal Rates



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## Safe Initial Withdrawal Rates at Various Target Success Rates by Country



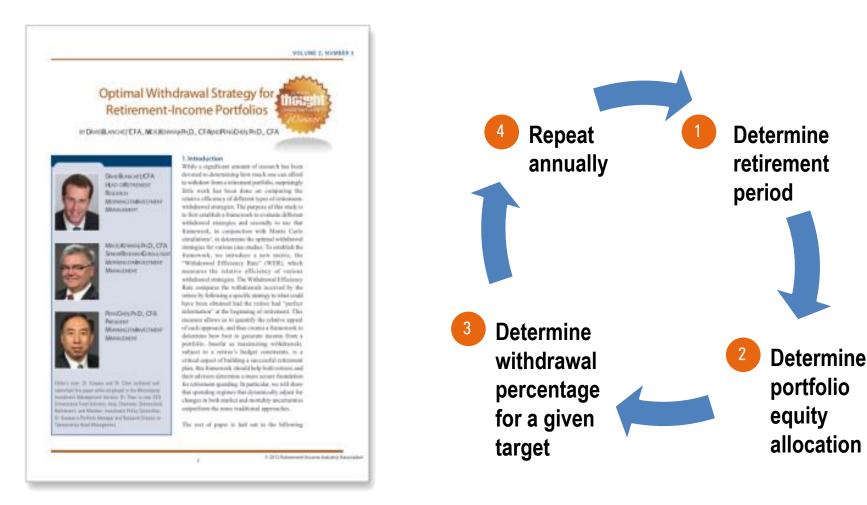
## Key Unknowns

- ► Life expectancy
- Returns
- Actual spending





## "Rebalancing" the Portfolio Withdrawal

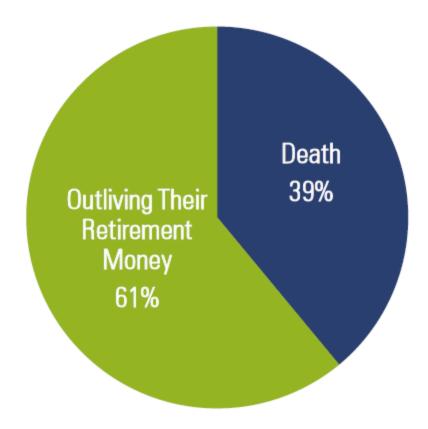


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## Annuity Allocation: What Do Retirees Fear More?



Source: https://www.allianzlife.com/content/public/Literature/Documents/ent-1154.pdf



Taking a Holistic Perspective

**Collect Inputs** 



Human Capital



Financial Capital and Current Savings



Traditional Funds, ETFs

Life Insurance/Annuities



Life Insurance Annuities



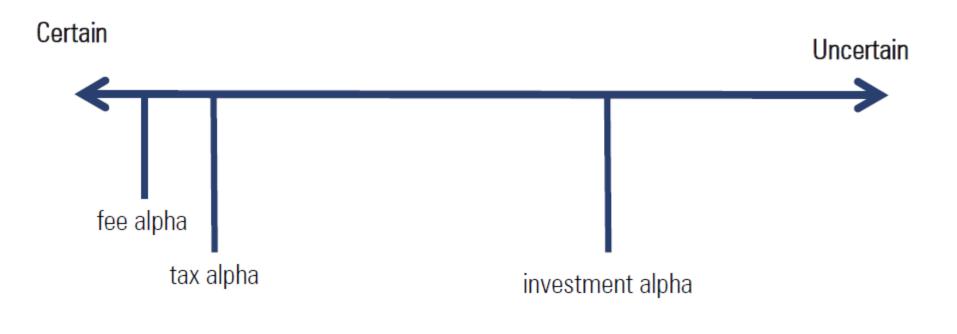
#### Thailand

- Individuals underestimate their life expectancy
- ► Not many aware of longevity risk
- Lacking of popularity and choice of annuity products





### The Alpha Spectrum



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#### Asset Location



## Asset Location and Withdrawal Sourcing

#### Inefficient

Allocating and withdrawing stock from IRA first

#### Moderate

Allocating stocks to taxable account and withdrawing from IRA first

#### Efficient

Allocating and withdrawing stocks from taxable account

## Thailand Tax Benefit Investment Instrument

- Money market fund over saving deposit
- ► Long Term Equity Fund and Retirement Mutual Fund
- Provident Fund
- Annuity product

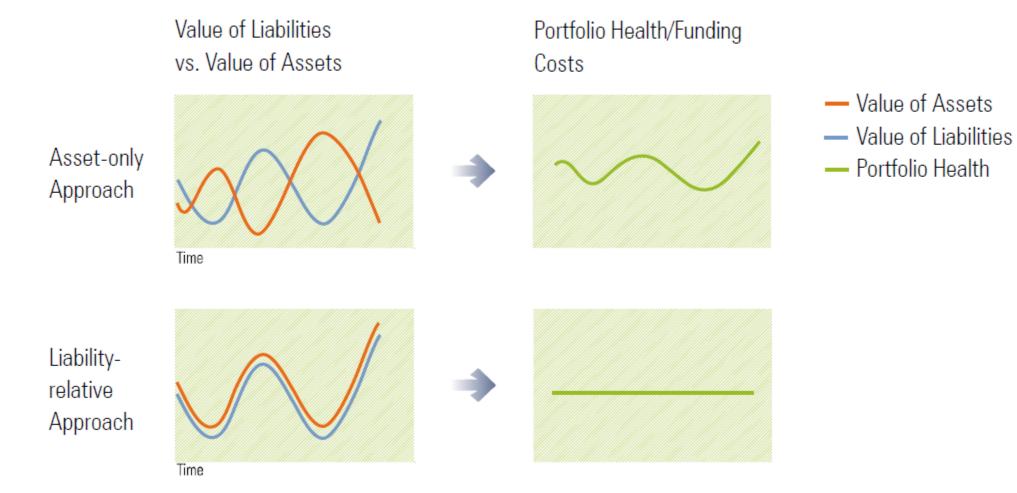




What is the TRUE risk for a portfolio that exists to fund (pay for) a liability?

- It is NOT the standard deviation of the asset portfolio
- It is NOT the performance of your asset portfolio relative to the asset portfolios of your peers
- The TRUE risk is that it won't be able to pay for the liability

## Improving Portfolio Health



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# Results



## Different Types of Gamma



Total Wealth Asset Allocation



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Tax Alpha

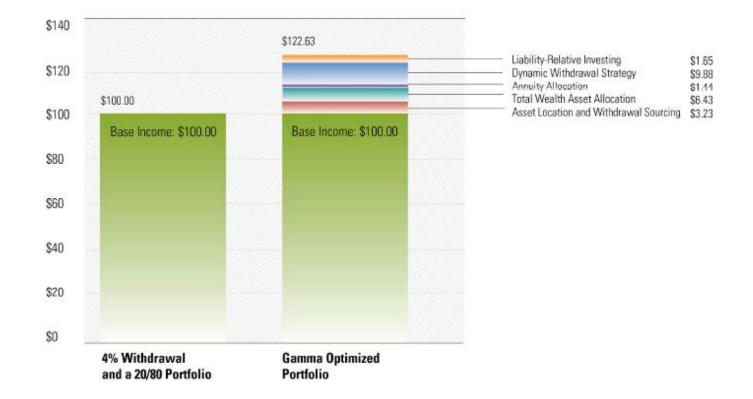


Liability-Relative Optimization



### Financial Planning Leads to Better Outcomes

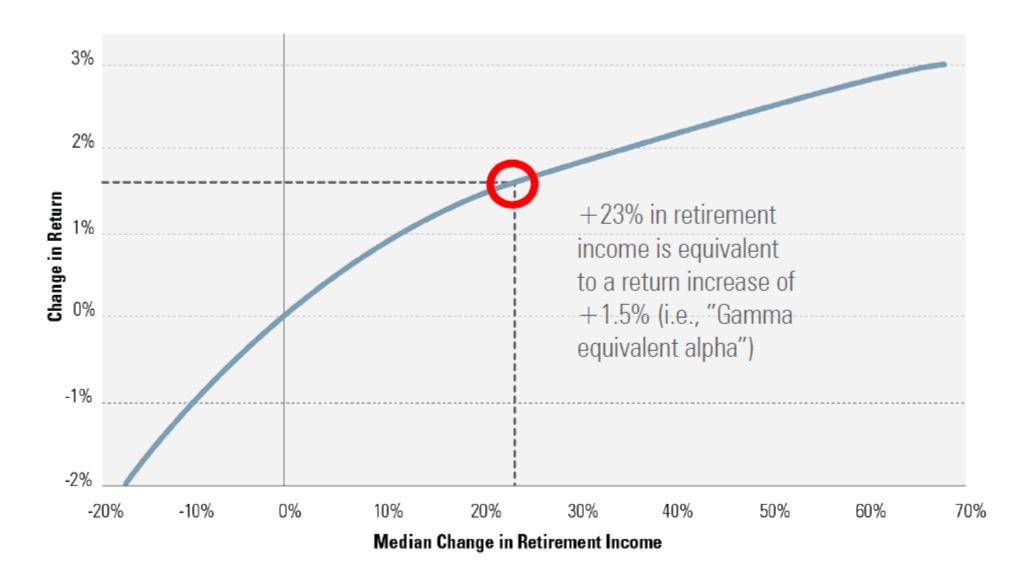
#### Measuring the Increase in Income for Gamma-Optimized Portfolios



Source: Through a series of simulations, researchers estimate a hypothetical retiree may generate 22.6% more income on a utility-adjusted basis utilizing a Gamma-efficient retirement income strategy that incorporates the concepts total wealth, dynamic withdrawal, annuity allocation, asset location and withdrawal sourcing, and liability-relative optimization, when compared to a base scenario which assumes a 4% withdrawal rate and a 20% equity allocation portfolio. The results from these simulations are hypothetical in nature, not actual investment results, and not guarantees of future results. For more information and to receive a copy of the 2012 study, "Alpha, Beta, and Now Gamma," please contact Nadine Pizarro at nadine.pizarro@morningstar.com.



### The "Alpha" Benefit of Gamma



For illustration only. Source: "Alpha, Beta, ... and Now Gamma" by David Blanchett and Paul D. Kaplan



## Gamma Conclusions

- Value is more than Alpha and Beta
- Creating retirement income from a portfolio is complicated
- There are a number different risks that need to be considered when building an "optimal" retirement income portfolio
- An optimized retirement income plan (i.e., Gamma-optimized) can potentially generate more retirement income than a naïve approach

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Author's calculations slides are based upon Monte Carlo simulations. Monte Carlo is an analytical method used to simulate random returns of uncertain variables to obtain a range of possible outcomes. Such probabilistic simulation does not analyze specific security holdings, but instead analyzes the identified asset classes. The simulation generated is not a guarantee or projection of future results, but rather, a tool to identify a range of potential outcomes that could be realized. The Monte Carlo simulation is hypothetical in nature and for illustrative purposes only. Results noted may vary with each use and over time

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