

Beyond Risk Tolerance: What Does a Retiree's Funded Ratio Say About Risk Capacity?

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Please remember that all investments carry some level of risk, including the potential loss of principal invested. They do not typically grow at an even rate of return and may experience negative growth. As with any type of portfolio structuring, attempting to reduce risk and increase return could, at certain times, unintentionally reduce returns.

Model Strategies represent target allocations of Russell funds; these models are not managed and cannot be invested in directly. Model Strategies are exposed to the specific risks of the funds directly proportionate to their fund allocation. The funds comprising the strategies and the allocations to those funds have changed over time and may change in the future.

Diversification and strategic asset allocation do not assure profit or protect against loss in declining markets.

Investments that are allocated across multiple types of securities may be exposed to a variety of risks based on the asset classes, investment styles, market sectors, and size of companies preferred by the investment managers. Investors should consider how the combined risks impact their total investment portfolio and understand that different risks can lead to varying financial consequences, including loss of principal. Please see a prospectus for further details.

Real Assets such as real estate, commodities and infrastructure are volatile investments on their own and should form only a small portion of a diversified portfolio to aid in diversification and as a potential hedge against inflation. Real Assets may not be suitable for all investors.

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The opportunity?

10.000baby boomers turn 65 each day

Source: Pew Research Center, The Databank, www.pewresearch.org, 11/25/11



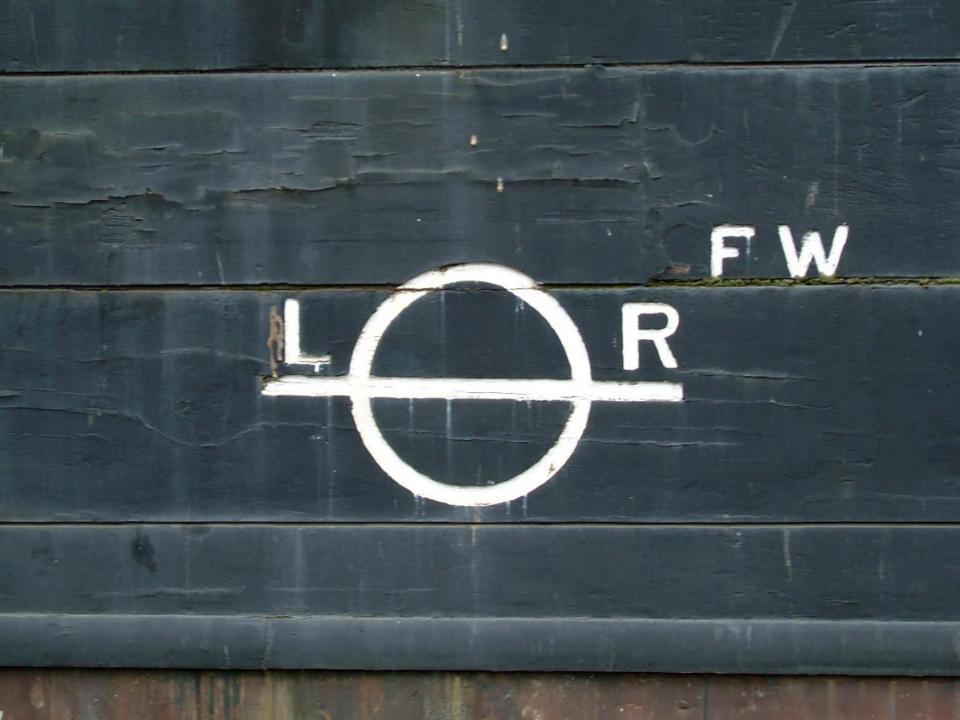
"I'm worried about all those news stories and that our investments lost some money last month. Are we still going to be okay?

of Boomers are more afraid of running out of money than they are of С.

¹Allianz Life Insurance survey cited in Ignites.com article "Boomers Dread Retirement Shortfall: Survey," June 21, 2010

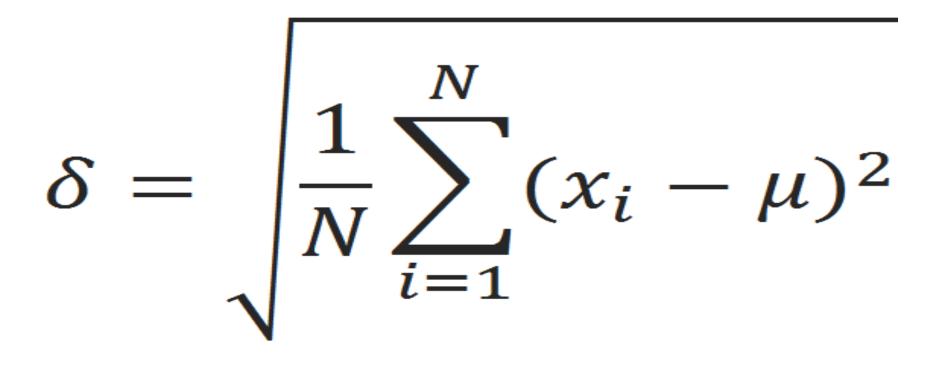


"That was a great meeting! I feel so much better than I did going in."



What is **SK** for an investor living in retirement?

Is risk really about this?





It's about running out of money before running out of life.

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What do investors want from their retirement income strategies?





No perfect product solution for retirement All choices have tradeoffs



*Annuity guarantees are subject to the claims-paying ability of the issuing insurance company.

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Investing in retirement is different

Accumulation Objective

1. Reach a wealth target on a specific date

2. Manage volatility

Retirement Objective

- 1. Make your money last
- 2. Allow upside if possible

Investment risk



Investment risk + Longevity risk

+ Inflation risk



What lessons can we learn from institutional investors?



Use the **Funded Ratio** to evaluate, advise, and monitor portfolio and planning decisions

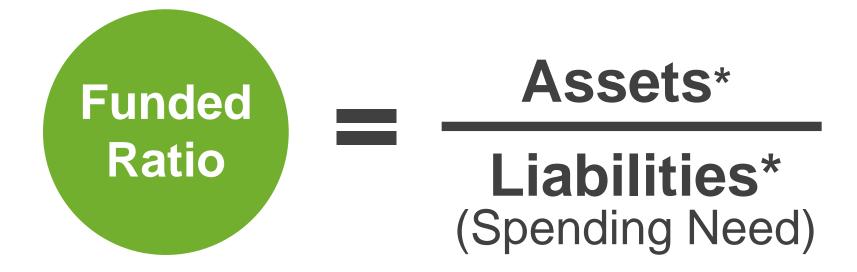


More explicitly manages **Assets** (portfolio) to future **Liabilities** (goals)





How do you calculate a funded ratio?



*Actuarial net present value



Example: Samuel and Eliza Plimsoll

Samuel is 70 and Eliza is 68

Income Assets

Social Security = \$15K and \$10K COLA = 2.0%

Pension = \$17K COLA = 1.5% Survivorship = 75%

Portfolio Assets

Taxable \$105K Nontaxable (Roth IRA) \$30k Tax Deferred (IRA) \$315K

Spending Goal

\$50K each year, after taxes COLA = 2.0%

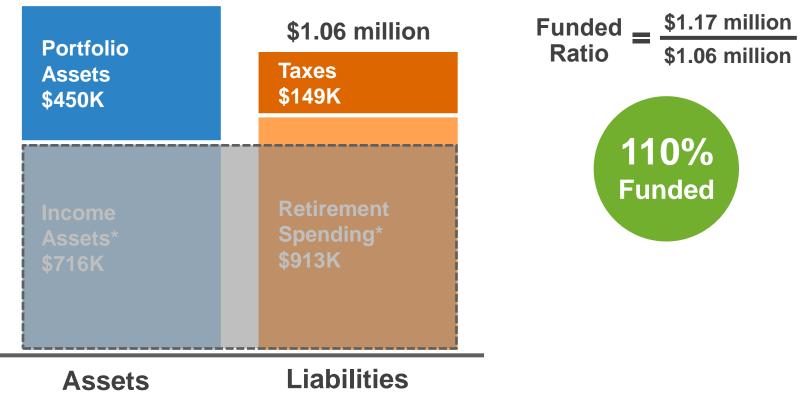
Tax Rates

Effective income tax = 15% Effective cap gains = 15%

Hypothetical example is for illustration only.

The planning problem Map assets to liabilities

\$1.17 million

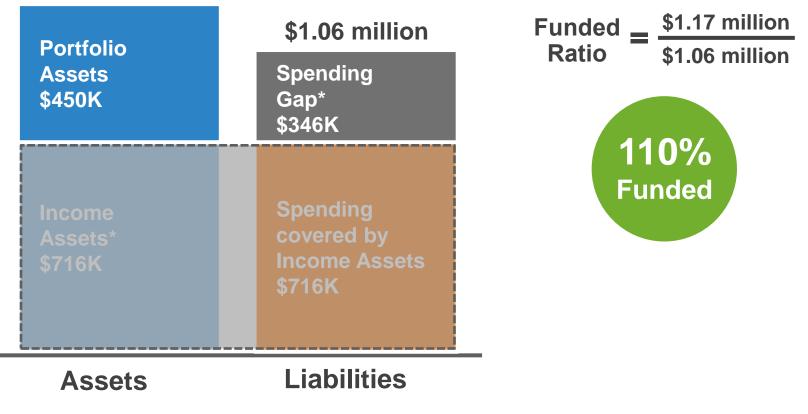


*Actuarial net present value



The planning problem Map assets to liabilities

\$1.17 million



*Actuarial net present value



The investment problem Manage assets to liabilities



Spending Gap* \$346K

Assets

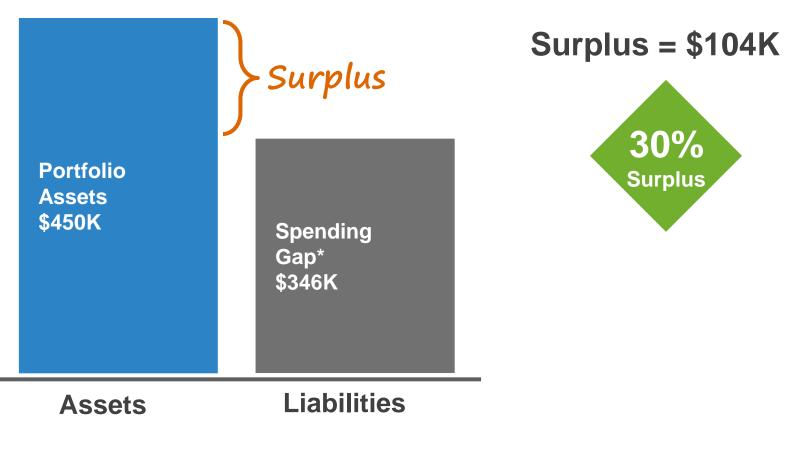
Liabilities

*Actuarial net present value

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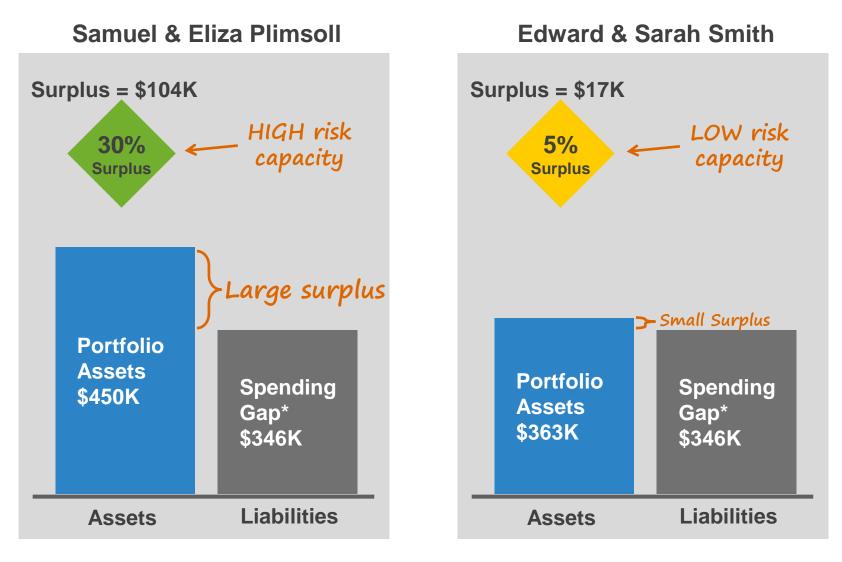
The investment problem Manage assets to liabilities



*Actuarial net present value

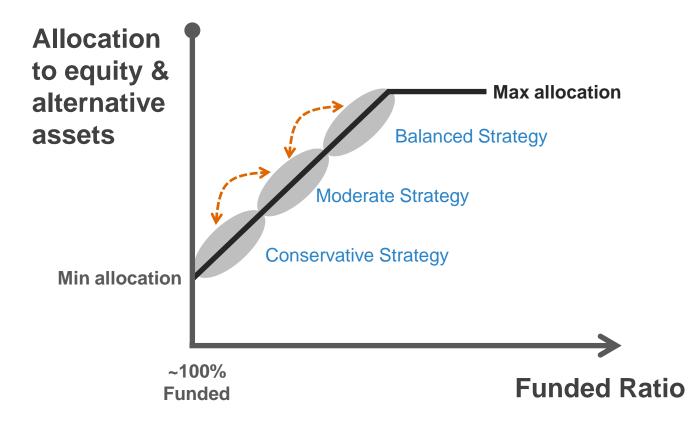


Should these clients be invested the same?



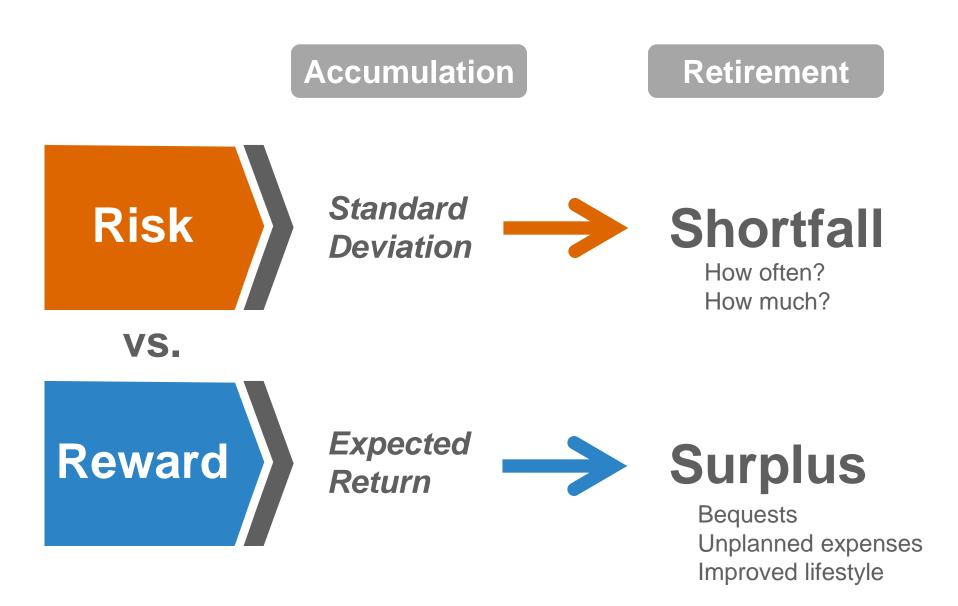
*Actuarial net present value

Base investors' asset allocation on their capacity to experience investment volatility

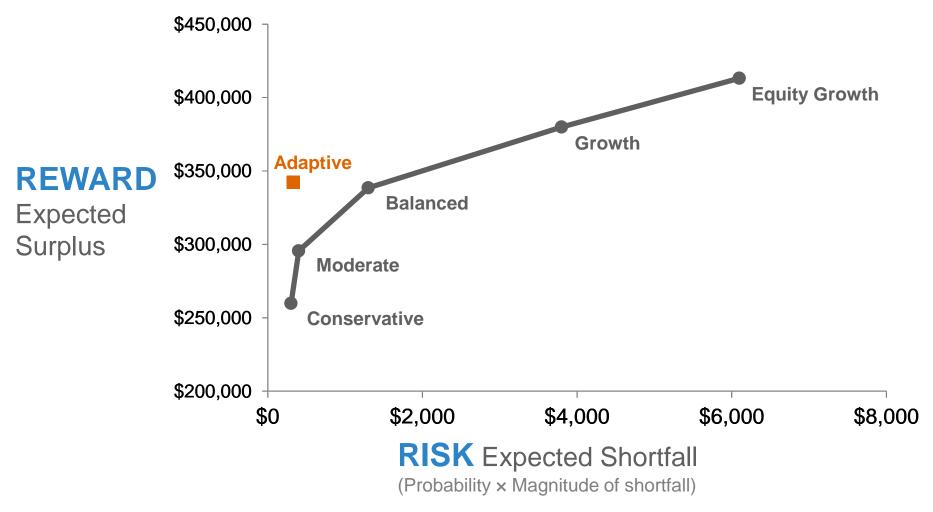


Hypothetical example is for illustration only.



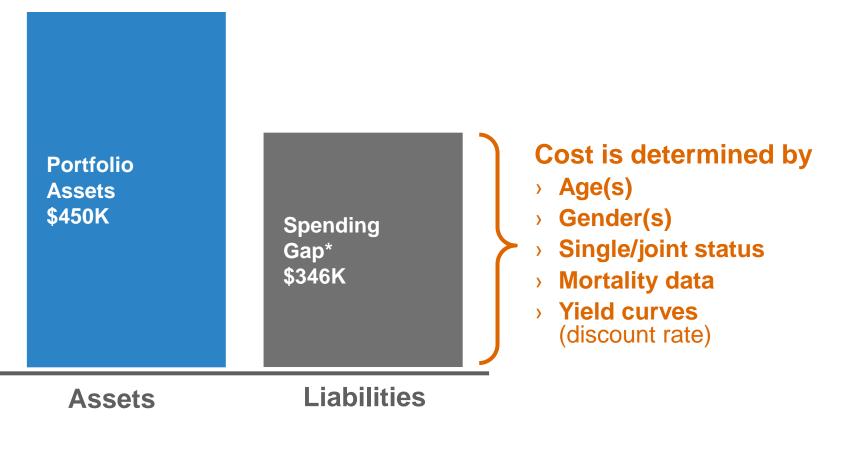


Adapting the portfolio can improve results Efficient frontier chart for Plimsoll example



This hypothetical example is for illustration only and is not intended to reflect the return of any actual investment. Investments do not typically grow at an even rate of return and may experience negative growth.

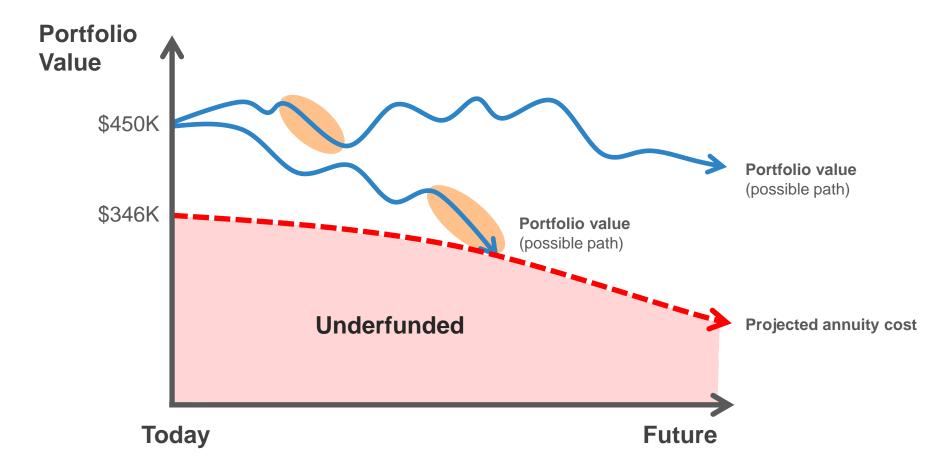
Here's another way to think about an investor's liability It approximates the cost of an **immediate lifetime annuity**



*Actuarial net present value



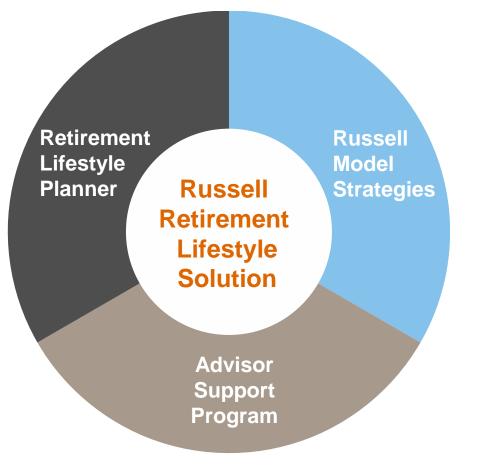
Adapt the Plimsolls' portfolio through time to stay funded



IMPORTANT: This chart is for illustrative purposes only. The projections or other information generated by Russell regarding the likelihood of various investment outcomes are hypothetical in nature, do not reflect actual investment results and are not guarantees of future results. Source: Russell Investments



What does the program offer?



Retirement Lifestyle Planner

> Easy to use web-based tool

Russell Model Strategies

Globally diversified portfolios

Advisor Support Program

 Education for you and your clients

Russell Retirement Lifestyle Solution refers to Russell Investments' planning tool, model strategies and advisor support program. Although designed to do so, the Russell Retirement Lifestyle Solution may not adequately address a retiree's lifestyle needs in retirement. Investments and strategies are not guaranteed by Russell Investments.



Use the Retirement Lifestyle Planner

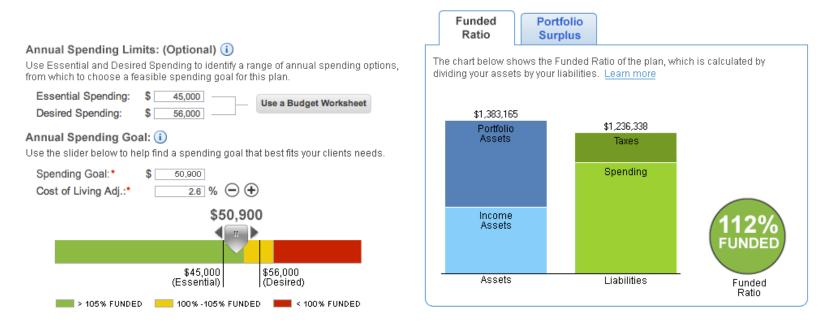
Retirement Lifestyle Planner Investor Info Assets Feasibility Portfolo Feasibility Portfolo Feasibility Feasibili	Russell	Investments		My Profile Contact Us Log Off
Basic Information Modeling the Outcome Investor Information Additional Information Enter the primary investor and co-investor information below. Inter the primary investor and co-investor information below. Important: Exclude any personally identifiable information from the plan name other than the client's name. Inter a name for your proposal (i.e., bob Smith's Retirement Plan). This will help organize your work and provide easy access to each of your client's plans. Primary Investor Important: Enter a plan name that does not include any personally identifiable client information; however, you may include the disting the and does not include any personally identifiable client information; however, you may include the disting the and does not include any personally identifiable client information; however, you may include the disting the and does not include any personally identifiable client information; however, you may include the disting the and does not include any personally identifiable client information; however, you may include the disting the disthe disting the disting the disting the disting	Retirem	ent Lifestyle Planner		Welcome Russell Test
 Enter the primary investor and co-investor information below. IMPORTANT : Exclude any personally identifiable information from the plan name other than the client's name. Plan Name* Important: Enter a plan name that does not include any personally identifiable client information; however, you may include the client's name. Primary Investor Printer Investor Primary Investor<!--</th--><th>Home</th><th></th><th></th><th></th>	Home			
IMPORTANT : Exclude any personally identifiable information from the plan name other than the client's name. Plan Name:* Jim and Joan's Retirement Plan Important: Enter a plan name that does not include any personally identifiable client information; however, you may include the information as you would like it to appear on the printed Retirement Lifestyle Plan. Primary Investor	Investor	Information		Additional Information
Primary Investor Image: Co - Applicant would like it to appear on the printed First Name: * Joines Joines middle Name: ist Name: * Joines Middle Name: Joines Last Name: * Joines Birth Year: * 1932 October ist Name: * Joines Birth Year: * 1945 May ist Name: * Used for modeling purposes. Gender: * Image: Male Female Gender: * Male Female Contact Russell at: 800-787-7354 *Required Information Service@russell.com Service@russell.com	IMPORTANT :	Exclude any personally identifiable informa Jim and Joan's Retirement Plan Important: Enter a plan name that does not include a	Bob Smith's Retirement Plan). This will help organize your work and provide easy access to each of your	
Gender: * Male Female Gender: * Male Female Contact Russell at: 800-787-7354 Service@russell.com	First Name: * Middle Name: Last Name: *	Jim	First Name: * Joan Middle Name: Last Name: * Jones	would like it to appear on the printed Retirement Lifestyle Plan.Birth year and gender information is
		Male Female	Gender: * O Male • Female	Contact Russell at: 800-787-7354



Determine a feasible spending plan



Determine a feasible spending goal that best fits your client's needs. To help you get started, we've shown you what an Annual Spending Goal that maps to 110% Funded would be. Use this as a starting point as you determine a spending plan for your client.



Map client to model strategy based on risk capacity



Portfolio Implementation

Evaluate the portfolio options available to your client using the diagnostics charts below and select an investment approach that will best meet your clients unique needs.

Spending Plan Summary ()

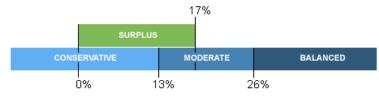
Annual Spending Goal: \$50,900 Funded Ratio: 112%

View Spending Plan Details

Asset Allocation Mapping (i)

Portfolio Assets:	\$1,000,000
Spending Gap (In today's dollars):	- \$853,173
Portfolio Surplus:	\$146,827 (17% Surplus)

Asset Allocation Alignment:



Based on your Portfolio Surplus and your capacity for portfolio risk, we have mapped you to a diversified portfolio that will help you meet your goals when used in an Adaptive Investing Strategy.

Benefits of Adaptive Investing

Russell's Adaptive Investing™ approach helps you **balance risk and** reward in your client's portfolio based on their unique situation.

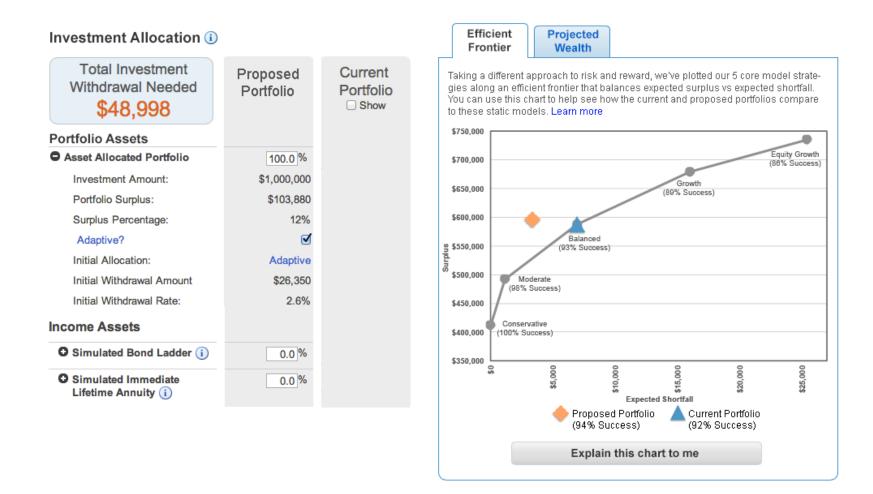
Russell's Adaptive Investing approach offers a different approach to managing risk in retirement based on the potential surplus or deficit of the portfolio compared to the spending gap and can help suggest an asset allocation to consider based on these factors.

Both your client's funded ratio and the size of their portfolio surplus or deficit will change through time as investment values and circumstances change. Russell Adaptive Investing assumes that you will **conduct a periodic re-evaluation of your client's plan and change their asset allocation through time, as their unique situation changes.**

Learn more about Adaptive Investing

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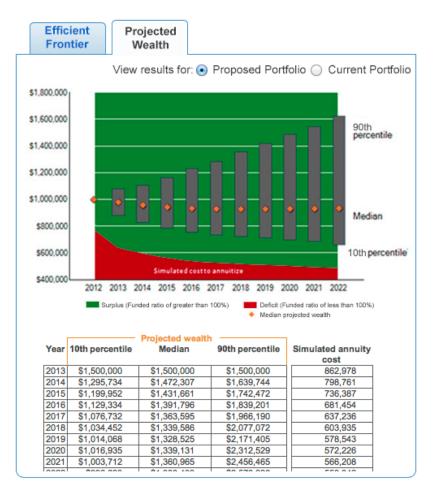
Compare efficiency of portfolio choices



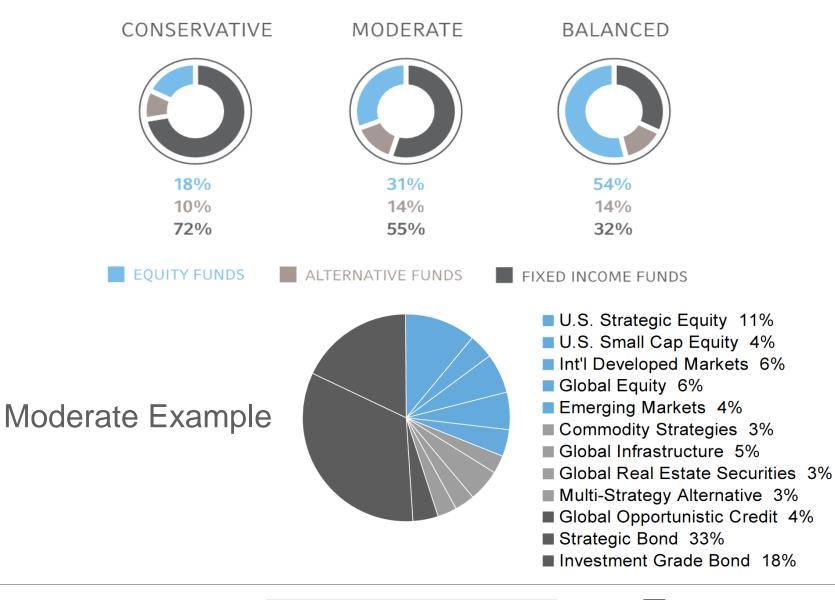


Stress test potential portfolios

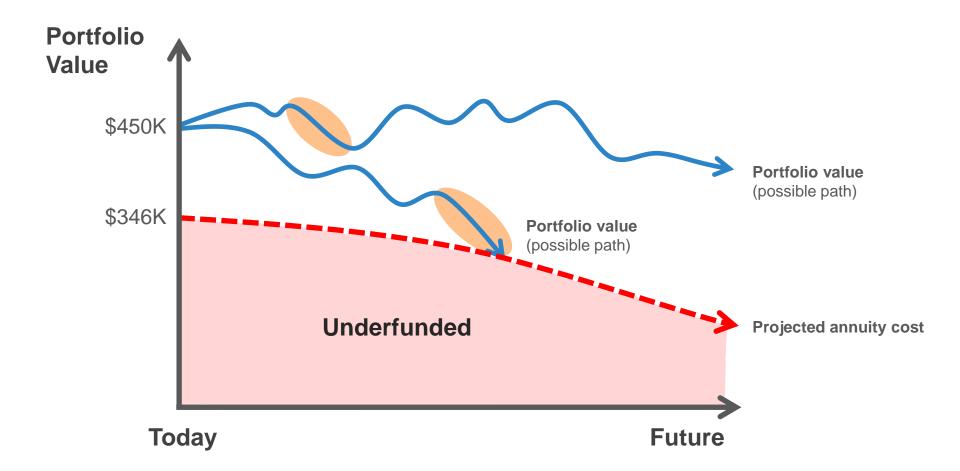
)	
Proposed Portfolio	Current Portfolio
100.0 %	
\$1,000,000	
\$103,880	
12%	
۷	
Adaptive	
\$26,350	
2.6%	
0.0%	
0.0 %	
	Portfolio 100.0% \$1,000,000 \$103,880 12% Adaptive \$26,350 2.6% 0.0%



Three diversified model strategies

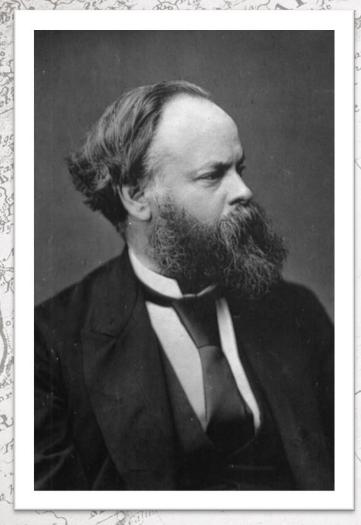


Change the conversation



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Samuel Plimsoll 1824 – 1898

ttp://www.nationalmediamuseum.org.uk

"A great number of ships are regularly sent to sea in such a rotten and otherwise ill-provided state that they can only reach their destination through fine weather, and a large number are so overloaded that it is nearly impossible for them to reach their destination if the voyage is at all rough."

"The storms of winter may come, but with good tight ships under them...they reach their desired haven, weary and worn it may be, but still safe."

Our Seamen, 1872

Your clients are worried about staying afloat in retirement



- 1. Think of <u>three clients</u> you need to engage with a different conversation
- 2. Contact your dedicated Russell Regional Team (or the Russell Service Team) for help

800-787-7354 service@russell.com



Methodology

The value of a spending liability is calculated by actuarially discounting future liabilities back to the present using mortality data and an appropriate risk free rate (often based on the Treasury yield curve).

The Funded Ratio (FR) is this liability value divided by the current portfolio balance. FRs of 100% mean that the discounted liability exactly matches the current assets. Less than 100% means that a plan is underfunded.

Mortality data comes from the Society of Actuaries, U.S. Annuitant 2000 Table.

Discount rate assumptions						
Year	1	5	10	20	30	
Rate	0.17%	0.75%	1.98%	3.58%	3.86%	

The asset allocations modeled in this presentation rely on the following broad asset assumptions:

			Correlations		
	Annual Expected Returns*	Volatility	Equity	Bonds	Cash
Equity	0.072	0.165	1		
Bonds	0.040	0.027	0.204	1	
Cash	0.022	0.038	0.049	0.504	1

*Assuming Continuous Compounding





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