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Case Study

Risk Tolerance

You completed a risk questionnaire using advanced quantitative risk technology on March 28, 2019. The results were as follows.

On a scale of 1 to 99, with higher numbers indicating higher risk tolerance, your answers to the risk questionnaire resulted in a score of 62.



This means that over the next six months, you are comfortable risking a loss of -13% or -\$64,290, in exchange for the chance of making a gain of +20% or +\$98,890.

This range describes the "comfort zone" for your investments. Over the next six months, it represents a hypothetical target that you would prefer to keep your investments within. There is no guarantee any investments would perform within the range.

Investment Goals

When completing your risk questionnaire on March 28, 2019, you selected the following goals for your investments:

- ✓ Wealth accumulation
- ✓ Retirement
- ✓ Income

Age and Retirement Horizon

When completing your risk questionnaire on March 28, 2019, you provided the following data about your age and retirement horizon:

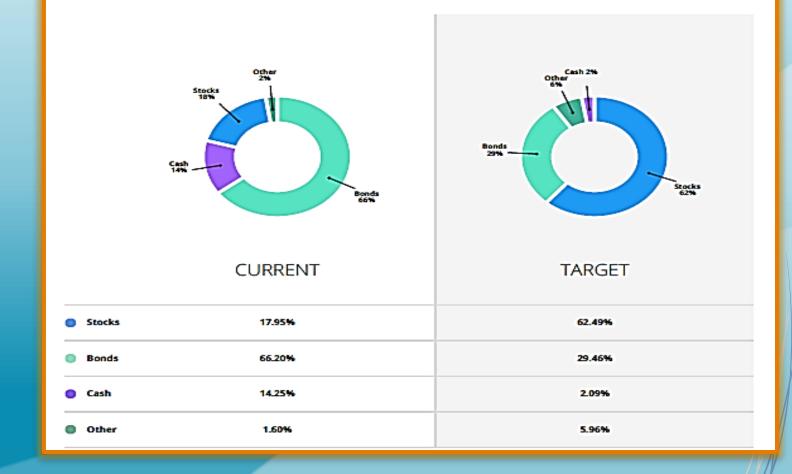
You were born in 1965. You intend to retire at age 60.

Asset Allocation

Asset classification is depicted below for the portfolio(s) in this report. The ratios depicted for Stocks, Bonds, Cash, and Other, are reflective of current value for the portfolio(s) shown, and are subject to change along with changes to the portfolio value.

Portfolio asset allocations are defined as follows:

- · Stocks: Individual equities, along with equity portions of mutual funds and ETFs.
- . Bonds: Individual bonds, along with fixed income portions of mutual funds and ETFs.
- Cash: Cash, Money Market funds, along with portions of mutual funds and ETFs allocated to cash.
- Other: Non-Traded REITs/DPPs, Variable Annuities and any other custom allocation or any security unrecognized by Riskalyze.



Asset Allocation

| Stocks | Bonds |
|--------|-------|
| 84% | 16% |
| 64% | 36% |
| 20% | 80% |

Sequence of Returns Risk

| Year | BOY Balance | Return | Withdrawal | EOY Balance |
|------|-------------|---------|------------|-------------|
| 1973 | \$1,000,000 | -14.67% | \$79,713 | \$785,281 |
| 1974 | \$785,281 | -26.31% | \$79,713 | \$519,934 |
| 1975 | \$519,934 | 37.14% | \$79,713 | \$603,719 |
| 1976 | \$603,719 | 23.81% | \$79,713 | \$648,772 |
| 1977 | \$648,772 | - 7.19% | \$79,713 | \$528,144 |
| 1978 | \$528,144 | 6.52% | \$79,713 | \$477,670 |
| 1979 | \$477,670 | 18.45% | \$79,713 | \$471,380 |
| 1980 | \$471,380 | 32.45% | \$79,713 | \$518,764 |
| 1981 | \$518,764 | - 4.88% | \$79,713 | \$417,625 |
| 1982 | \$417,625 | 21.50% | \$79,713 | \$410,564 |

| Year | BOY Balance | Return | Withdrawal | EOY Balance |
|---------|-------------|--------|-------------|-------------|
| 1983 | \$410,564 | 22.46% | \$79,713 | \$405,161 |
| 1984 | \$405,161 | 6.22% | \$79,713 | \$345,691 |
| 1985 | \$345,691 | 31.64% | \$79,713 | \$350,134 |
| 1986 | \$350,134 | 18.62% | \$79,713 | \$320,774 |
| 1987 | \$320,774 | 5.18% | \$79,713 | \$253,548 |
| 1988 | \$253,548 | 16.61% | \$79,713 | \$202,710 |
| 1989 | \$202,710 | 31.69% | \$79,713 | \$161,975 |
| 1990 | \$161,975 | -3.10% | \$79,713 | \$79,713 |
| 1991 | \$79,713 | 30.47% | \$79,713 | \$ 0 |
| 19 Yrs. | Average ROR | 12.98% | \$1,514,547 | DEPLETED |

Courtesy of Leap Systems

Figure 2: Forward running return sequence of \$1,000,000 – S&P 500 portfolio with annual withdrawals of \$79,713 Other starting years, rate of return sequences, market indexes, and life horizons will produce different results.

Average Return vs. Actual Return

| Initial Balance \$100,000 | | | | | |
|--|----------------------|---------------|-----------|--|--|
| Year Annual Return Annual Gain/(Loss) Account Balanc | | | | | |
| 1 | 50.00% | \$50,000 | \$150,000 | | |
| 2 | 2 -50.00% (\$75,000) | | | | |
| 3 | 3 150.00% \$112,500 | | | | |
| 4 | 4 -50.00% (\$93,750) | | | | |
| | | | | | |
| Average Return | 25.00% | Actual Return | -6.25% | | |

Have you heard....

The CLOSER you get to retirement... The MORE conservative you get

Loss of Purchasing Power: What Happens When You Start Spending?

Example:

At the beginning of 1993, retirees Bill, Jack and Mary each have \$10,000 in the TSP. They each invest in one fund: Bill in G, Jack in F and Mary in C.

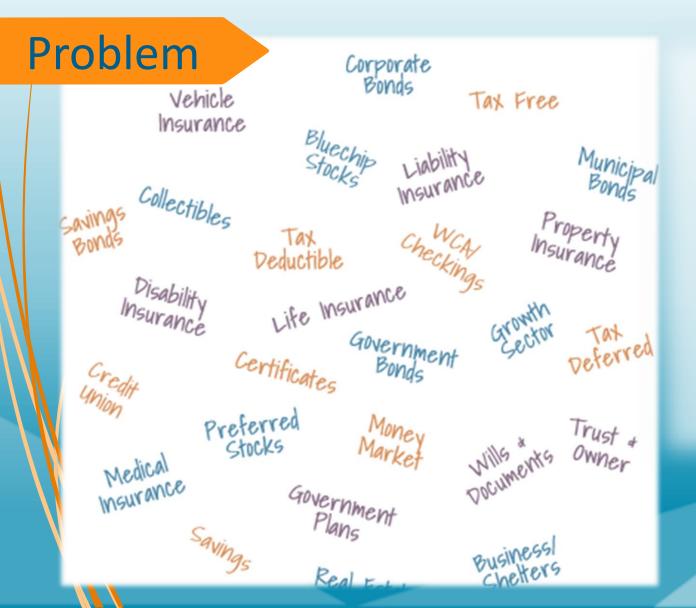
They annually withdraw enough to buy 2000 first class stamps (after paying taxes of 30%).



Note: This is for illustration purposes only. Past performance is no guarantee of future performance.

All investments involve the risk of loss. The data assumes reinvestment of all income.

How Most People Make Financial Decisions...



- One at a time
- At different times
- With different people
- Under different economic circumstances

This creates a financial junk drawer

Junk Drawer

<u>Undermines Financial</u> <u>Success</u>

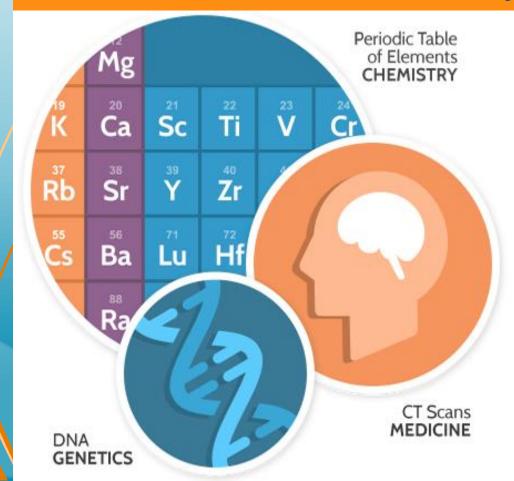
- Disorganized
- **>** Uncoordinated
- Non-integrated
 - **Inefficient**
 - **Ineffective**
- ► Hard to Manage



Start with a Structural Model...

Use principles, laws, and strategies to align and position elements in a more scientific manner to overcome the financial junk drawer.

Solution

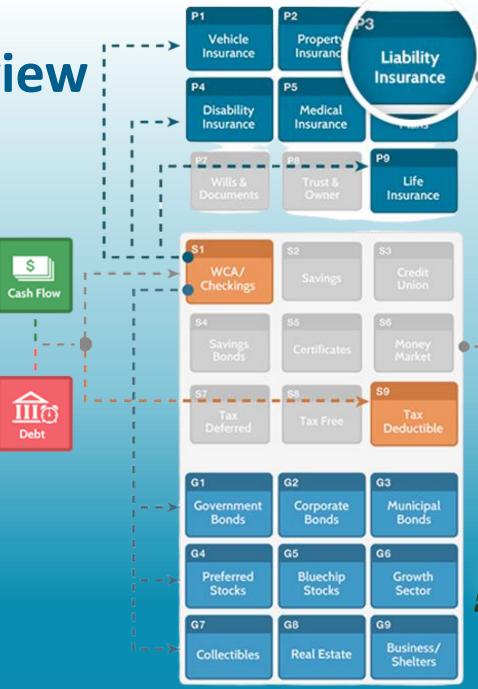


- Organized
- Rules-based
- Optimized
- Efficient
- Measurable
- Coordinated

The Coordination Review

Certain elements can integrate for more effective results.

Uncover and reallocate unused dollars to create additional money supply and superior benefits.



Protection



Assets, Income, & Life

Full protection is critical to guard against unforeseen events that can strike at any time and affect your financial future.

P3

Life

Insurance



Wills &

Documents

P2

Trust &

Owner

P1

Asset Allocation

| Stocks | Bonds |
|--------|-------|
| 84% | 16% |
| 64% | 36% |
| 20% | 80% |

Understanding the 4% Withdrawal Rule

If an investor withdraws a fixed percentage of their assets annually for retirement expenses, what is the likelihood that they will outlive their savings?

| Withdrawa Rate | 100/0 | 75/25 | 50/50 | 25/75 | 0/100 |
|-------------------|-------|-------|-------|-------|-------|
| 3% | 100% | 100% | 100% | 100% | 84% |
| 4% | 98% | 100% | 96% | 80% | 35% |
| 5% | 80% | 82% | 67% | 31% | 22% |
| 6% | 62% | 60% | 51% | 22% | 11% |
| 7% | 55% | 45% | 22% | 7% | 2% |
| 8% | 44% | 35% | 9% | 0% | 0% |

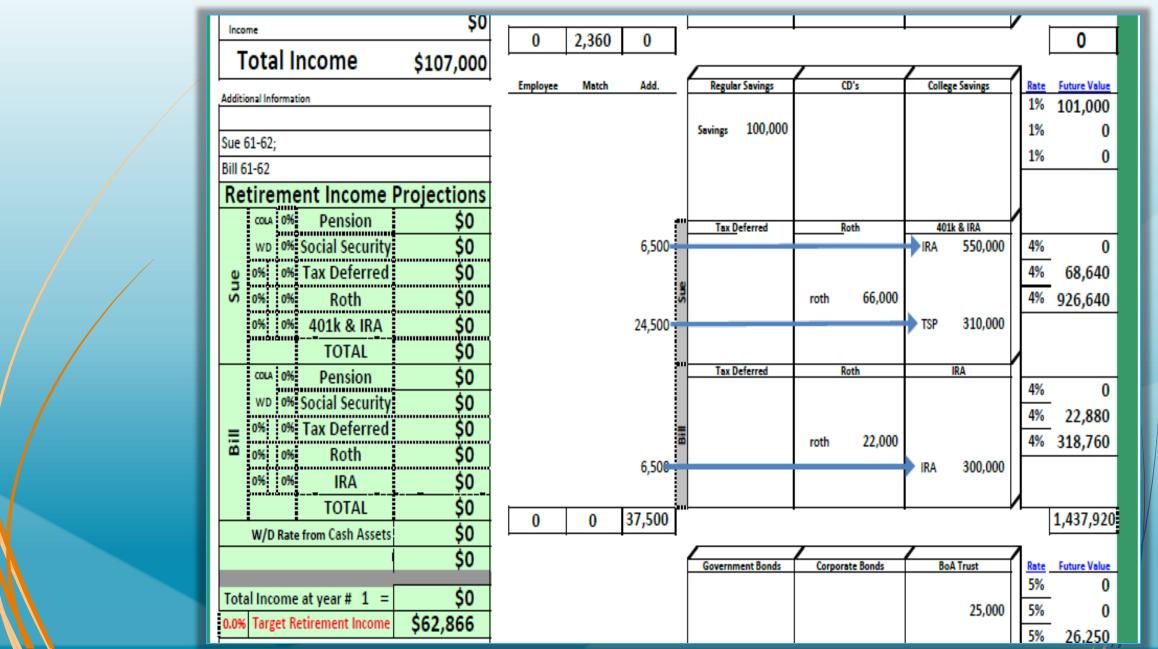
The Trinity University Study

Target Retirement Income

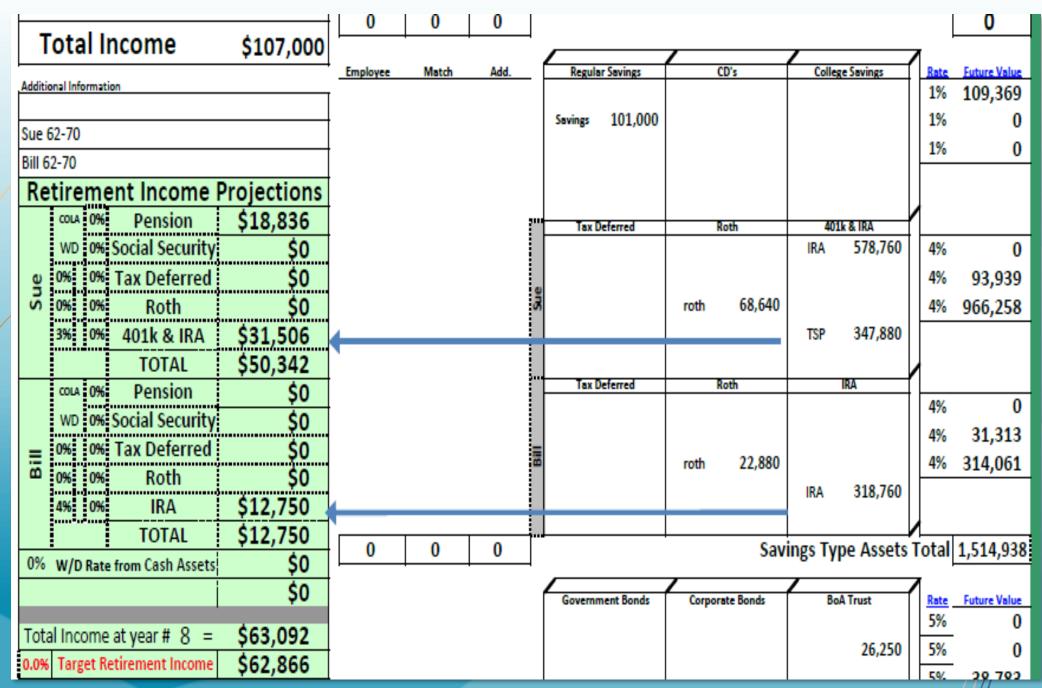


| Gross Income - Sue Gross Income - Bill | \$107,000 \$0 |
|---|------------------|
| Total Gross Income | \$107,000 |
| Less | |
| TSP/401(k) | \$24,500 |
| IRA | \$6,500 |
| Social Security | \$6,634 |
| IRA | \$6,500 |
| Mortgage | \$0 |
| College | \$0 |
| Credit Cards | \$0 |
| Debts | \$0 |
| Tax Equivalent | \$0 |
| Non/Qualified IRA | \$0 |
| Roth | \$0 |
| Total Payments | \$44,134 |
| Target Retirement Income | \$62,866 |

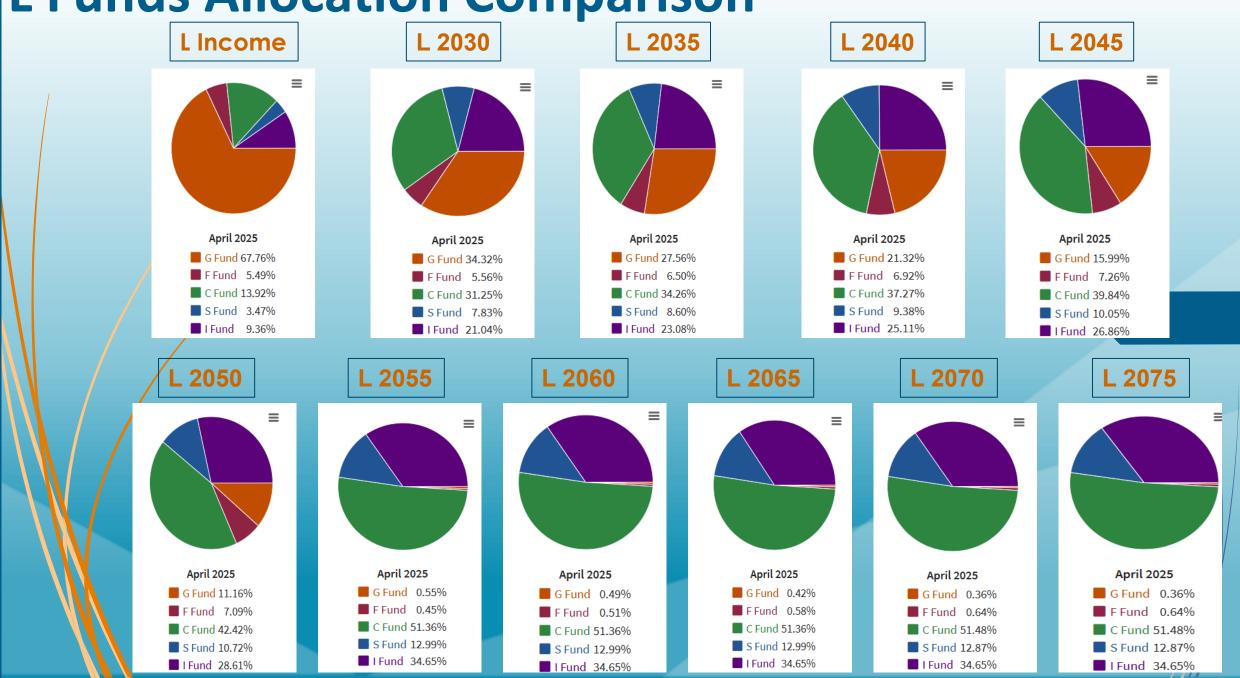
Present Position Financial Model



Sue Retires



L Funds Allocation Comparison



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The Trinity University Study



3 Simple Rules

- 1 Never sell low
- 2 Buy into your philosophy
- **Safety money**

Sequence of Returns Risk

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| 1989 | \$202,710 | 31.69% | \$79,713 | \$161,975 |
| 1990 | \$161,975 | -3.10% | \$79,713 | \$79,713 |
| 1991 | \$79,713 | 30.47% | \$79,713 | \$ 0 |
| 19 Yrs. | Average ROR | 12.98% | \$1,514,547 | DEPLETED |

Courtesy of Leap Systems

Figure 2: Forward running return sequence of \$1,000,000 – S&P 500 portfolio with annual withdrawals of \$79,713 Other starting years, rate of return sequences, market indexes, and life horizons will produce different results.

Sequence of Returns Risk

| Year | BOY Balance | Return | Withdrawal | EOY Balance |
|------|-------------|--------|------------|-------------|
| 1991 | \$1,000,000 | 30.47% | \$79,713 | \$1,200,698 |
| 1990 | \$1,200,698 | -3.10% | \$79,713 | \$1,086,235 |
| 1989 | \$1,086,235 | 31.69% | \$79,713 | \$1,325,489 |
| 1988 | \$1,325,489 | 16.61% | \$79,713 | \$1,452,699 |
| 1987 | \$1,452,699 | 5.18% | \$79,713 | \$1,444,107 |
| 1986 | \$1,444,107 | 18.62% | \$79,713 | \$1,618,444 |
| 1985 | \$1,618,444 | 31.84% | \$79,713 | \$2,028,663 |
| 1984 | \$2,028,663 | 6.22% | \$79,713 | \$2,070,174 |
| 1983 | \$2,070,174 | 22.46% | \$79,713 | \$2,437,519 |
| 1982 | \$2,437,519 | 21.50% | \$79,713 | \$2,864,734 |

| Year | BOY Balance | Return | Withdrawal | EOY Balance |
|---------|-------------|---------|-------------|-------------|
| 1981 | \$2,864,734 | -4.88% | \$79,713 | \$2,649,112 |
| 1980 | \$2,649,112 | 32.45% | \$79,713 | \$3,403,169 |
| 1979 | \$3,403,169 | 18.45% | \$79,713 | \$3,939,634 |
| 1978 | \$3,939,634 | 6.52% | \$79,713 | \$4,108,392 |
| 1977 | \$4,108,392 | -7.19% | \$79,713 | \$3,739,017 |
| 1976 | \$3,739,017 | 23.81% | \$79,713 | \$4,530,585 |
| 1975 | \$4,530,585 | 37.14% | \$79,713 | \$6,103,925 |
| 1974 | \$6,103,925 | -26.31% | \$79,713 | \$4,439,925 |
| 1973 | \$4,439,925 | -14.67% | \$79,713 | \$3,719,986 |
| 19 Yrs. | Average ROR | 12.98% | \$1,514,547 | \$3,719,986 |

Courtesy of Leap Systems

Figure 3: Backward running return sequence of \$1,000,000 - S&P 500 portfolio with annual withdrawals of \$79,713 Other starting years, rate of return sequences, market indexes, and life horizons will produce different results.

DEFENSE

Sequence of Defense

| Year | BOY Balance | Return | Withdrawal | EOY Balance |
|------|-------------|---------|------------|-------------|
| 1973 | \$1,000,000 | -14.67% | \$79,713 | \$ 785,281 |
| 1974 | \$ 785,281 | -26.31% | \$ 0 | \$ 578,673 |
| 1975 | \$ 578,673 | 37.14% | \$ 0 | \$ 793,593 |
| 1976 | \$ 793,593 | 23.81% | \$79,713 | \$ 883,855 |
| 1977 | \$ 883,855 | -7.19% | \$79,713 | \$ 746,324 |
| 1978 | \$ 746,324 | 6.52% | \$ 0 | \$ 794,984 |
| 1979 | \$ 794,984 | 18.45% | \$79,713 | \$ 847,239 |
| 1980 | \$ 847,239 | 32.45% | \$79,713 | \$1,016,588 |
| 1981 | \$1,016,588 | -4.88% | \$79,713 | \$ 891,155 |
| 1982 | \$ 891,155 | 21.50% | \$ 0 | \$1,082,754 |

| Year | BOY Balance | Return | Withdrawal | EOY Balance |
|---------|-------------|--------|-------------|-------------|
| 1983 | \$1,082,754 | 22.46% | \$79,713 | \$1,228,324 |
| 1984 | \$1,228,324 | 6.22% | \$79,713 | \$1,220,054 |
| 1985 | \$1,220,054 | 31.64% | \$79,713 | \$1,501,145 |
| 1986 | \$1,501,145 | 18.62% | \$79,713 | \$1,686,103 |
| 1987 | \$1,686,103 | 5.18% | \$79,713 | \$1,689,601 |
| 1988 | \$1,689,601 | 16.61% | \$79,713 | \$1,877,290 |
| 1989 | \$1,877,290 | 31.69% | \$79,713 | \$2,367,229 |
| 1990 | \$2,367,229 | -3.10% | \$79,713 | \$2,126,603 |
| 1991 | \$2,126,603 | 30.47% | \$ 0 | \$2,892,002 |
| 19 Yrs. | Average ROR | 12.98% | \$1,115,982 | \$2,892,002 |

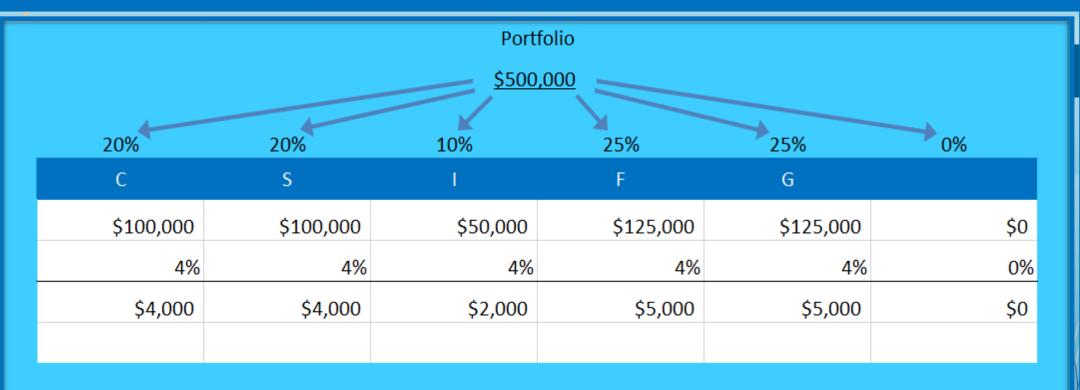
Courtesy of Leap Systems

\$398,565 funded from Sequence Defense Resources. Total withdrawal of \$1,514,547.

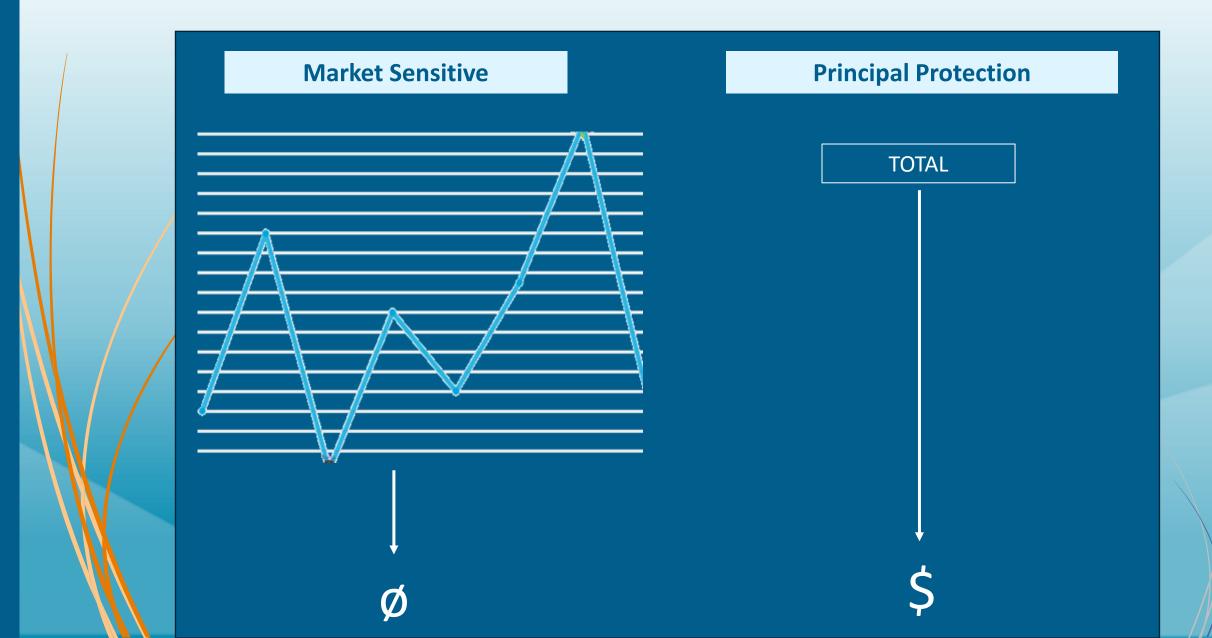
Figure 6: Same sequence with withdrawals from portfolio in green. Sequence Defense employed following down year. Other starting years, rate of return sequences, market indexes, and life horizons will produce different results.

Example:What if You Had to Take Distributions in 2022?

| G Fund | F Fund | C Fund | S Fund | I Fund |
|--------|---------|---------|---------|---------|
| 2.98% | -12.83% | -18.13% | -26.26% | -13.94% |

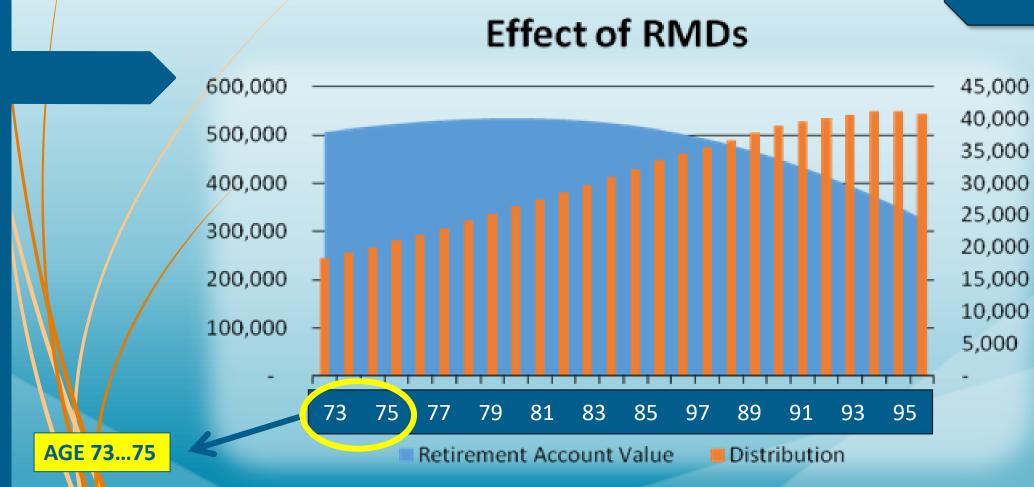


IRA



RMDs Increase...

Assumes 5% annual return and starting value of \$500,000



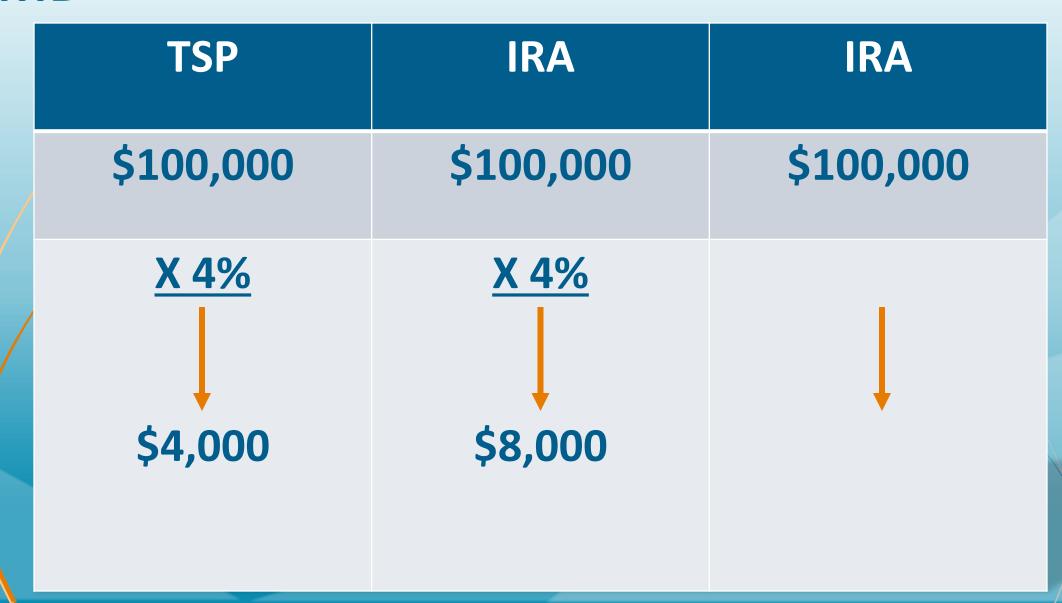
NOTE:

The age for withdrawing from retirement accounts was increased in 2020 to 72 from 70.5. (Note that the SECURE 2.0 Act will raise the age for RMDs to 73 for those who turn 72 in 2023.) Therefore, your first RMD must be taken by April 1 of the year after which you turn 72 (73 in 2023). After that your RMDs must be taken by December 31 of each year.

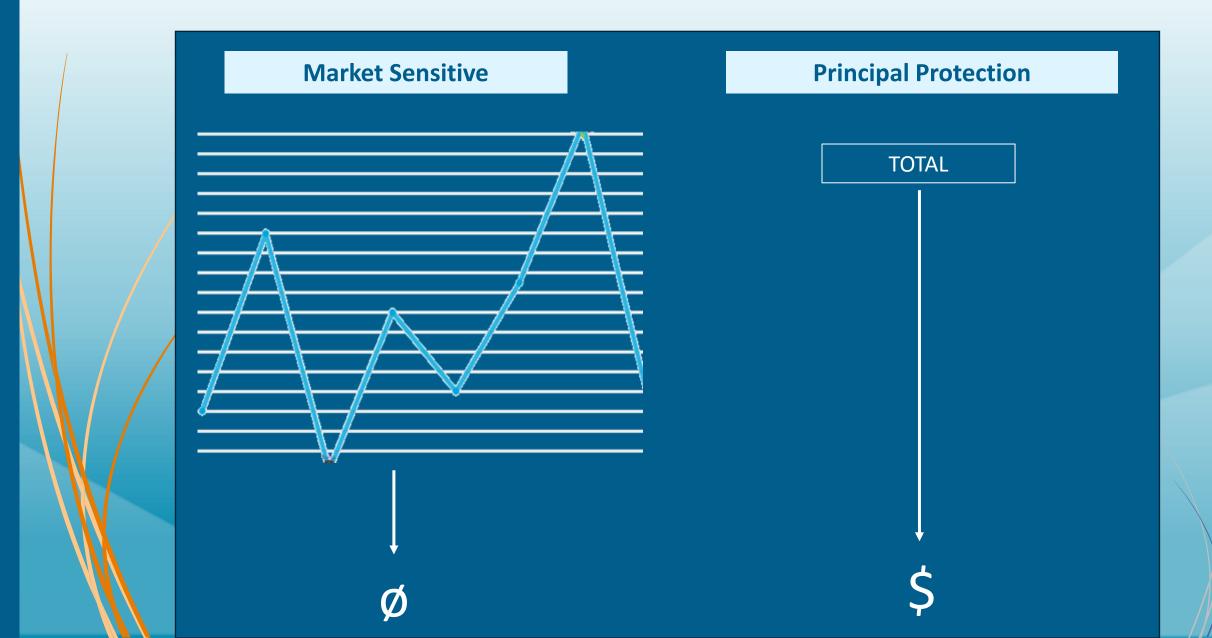
RMD

| TSP | IRA | IRA |
|-----------------|-----------------|-----------------|
| \$100,000 | \$100,000 | \$100,000 |
| X 4% \$4,000 | X 4% \$4,000 | X 4% \$4,000 |

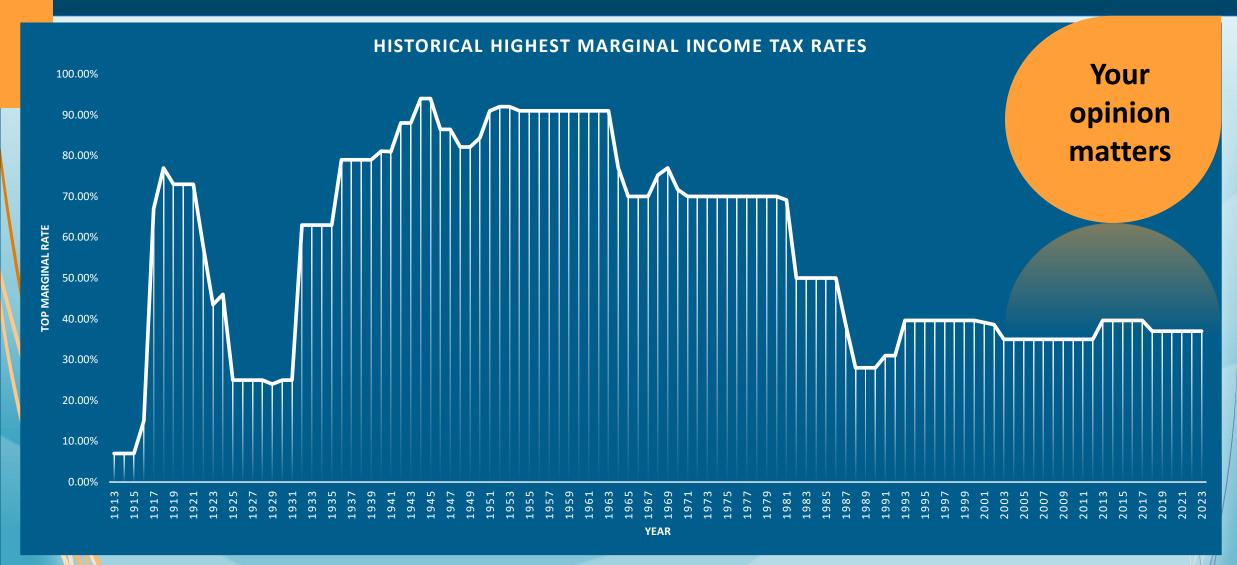
RMD



IRA



Where Do You Think Taxes Will Be in Your Future?



The data referenced in this chart we created is from the Tax Policy Center: https://taxpolicycenter.org/statistics/historical-highest-marginal-income-tax-rates

This table contains a number of simplifications and ignores a number of factors, such as the amount of income or types of income subject to the top rates, or the value of standard and itemized deductions. **Sources:** IRS Revenue Procedures, various years, Also, Eugene Steuerle. The Urban Institute: Joseph Pechman, Federal Tax Policy: Joint Committee on Taxation, Summary of Conference Agreement on the Jobs and Growth Tax Relief Reconciliation, Act of 2003, JCX-54-03, May 22, 2003.

Target Retirement Income



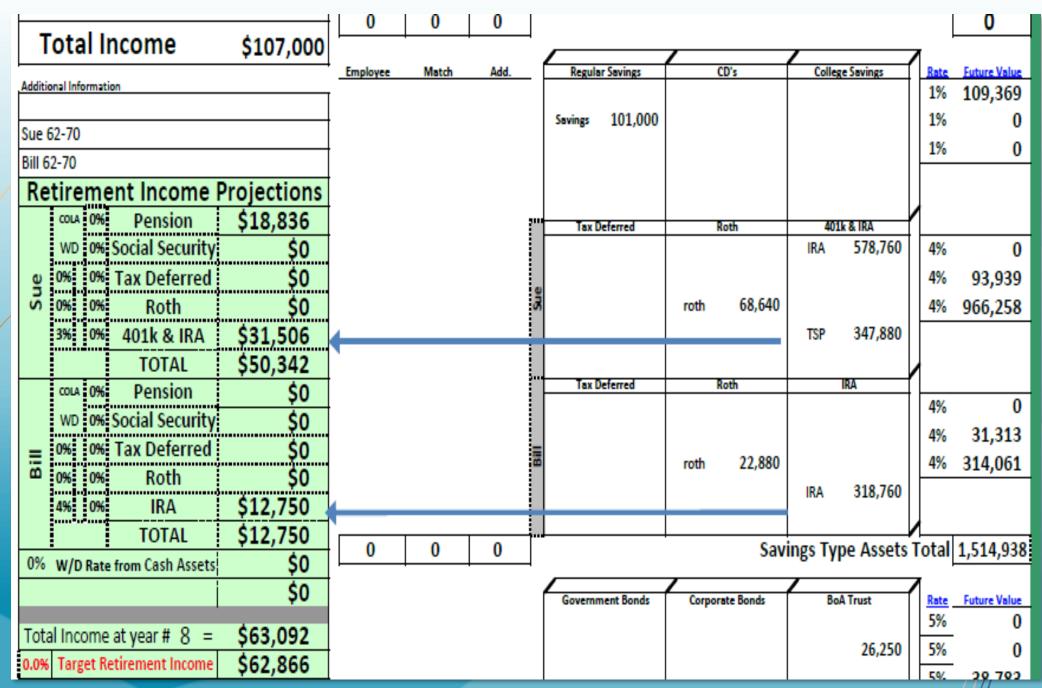
| Gross Income - Sue Gross Income - Bill | \$107,000 \$0 |
|---|------------------|
| Total Gross Income | \$107,000 |
| Less | |
| TSP/401(k) | \$24,500 |
| IRA | \$6,500 |
| Social Security | \$6,634 |
| IRA | \$6,500 |
| Mortgage | \$0 |
| College | \$0 |
| Credit Cards | \$0 |
| Debts | \$0 |
| Tax Equivalent | \$0 |
| Non/Qualified IRA | \$0 |
| Roth | \$0 |
| Total Payments | \$44,134 |
| Target Retirement Income | \$62,866 |

What Tax Bracket Do You Fall Into?

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| Tax Rate | For Single Filers | For Married Individuals Filing Joint Returns | For Heads of Households |
|----------|------------------------|--|-------------------------|
| 10% | \$0 to \$11,925 | \$0 to \$23,850 | \$0 to \$17,000 |
| 12% | \$11,925 to \$48,475 | \$23,850 to \$96,950 | \$17,000 to \$64,850 |
| 22% | \$48,475 to \$103,350 | \$96,950 to \$206,700 | \$64,850 to \$103,350 |
| 24% | \$103,350 to \$197,300 | \$206,700 to \$394,600 | \$103,350 to \$197,300 |
| 32% | \$197,300 to \$250,525 | \$394,600 to \$501,050 | \$197,300 to \$250,500 |
| 35% | \$250,525 to \$626,350 | \$501,050 to \$751,600 | \$250,500 to \$626,350 |
| 37% | \$626,350 or more | \$751,600 or more | \$626,350 or more |

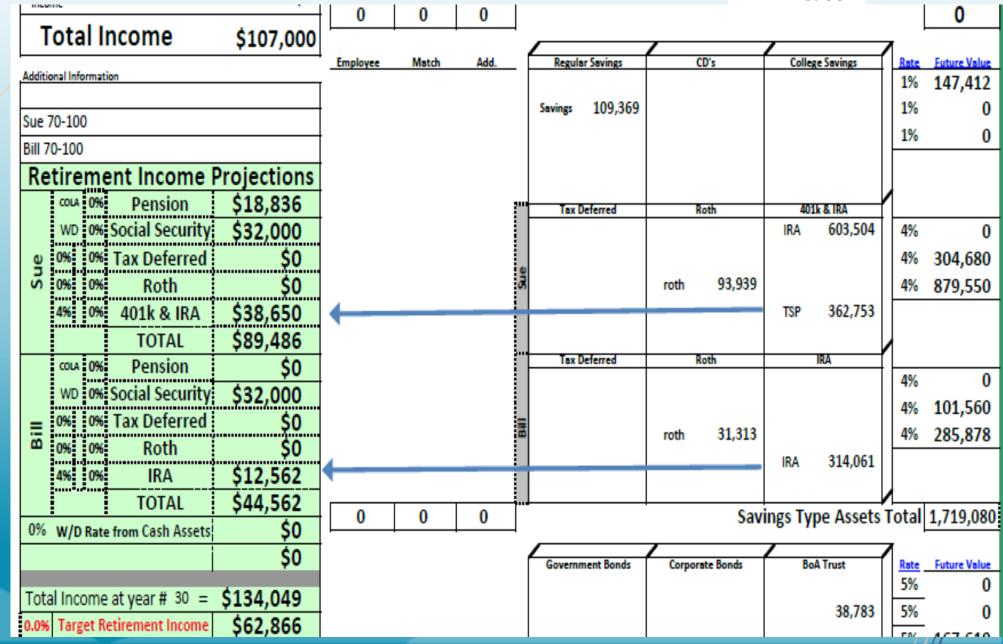
Sue Retires



RMD and Social Security Tab on

RMD & SS

Financial Model





Thank you for your time today. Kindly fill out our feedback survey: https://www.surveymonkey.com/r/DCSOFASURVEY



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