



MINERVA  
PLANNING GROUP

# Minerva Planning Group

## **Final Plan Review**

*Jack and Julie Public*

*October 21, 2015*

# Agenda

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- Base plan
- Social security maximization options
- Insurance coverage
- Estate documents
- Investment approach and target allocation



# Base Plan Assumptions

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- Core Goal - Retirement
  - Assume retirement at 65 and 70 for Julie and Jack respectively (one scenario exception)
- Retirement income
  - Social Security - \$29.8k for Julie @ 65 yrs and \$33.9k for Jack @ 70
  - Pensions (Jack)
    - University - \$3k/mo w/COLA and \$660/mo to survivor
    - OPM - \$600/mo w/COLA (-1%), no survivor



# Base Plan Assumptions

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- Portfolio allocation
  - 70/30 pre-retirement (8.9%/3.9%)
  - 60/40 in retirement (8.4%/3.5%)
- Assumed inflation of 4.2%
- Plan end at age 95 for Julie and age 93 for Jack



# Assets and Income

## Assets

Description	Owner	Current Value	Annual Additions	Assign - How To Use ?	
Roth IRA - Account	Julie	\$65,636		Fund All Goals	✕
Roth IRA - Account	Julie	\$85,082		Fund All Goals	✕
SEP-IRA	Julie	\$560,352	\$20,000	Fund All Goals	✕
Thrift Savings Plan	Jack	\$145,000		Fund All Goals	✕
Traditional IRA - Account	Jack	\$127,051		Fund All Goals	✕
<b>Total All Assets</b>		<b>\$983,121</b>	<b>\$20,000</b>		

## Income

### Social Security Summary

Description	Value	Assign - How to Use ?
Social Security	Julie will file a normal application at age 65. She will receive \$29,827 in retirement benefits at age 65.	Fund All Goals
	Jack will file a normal application at age 70. He will receive \$33,898 in retirement benefits at age 70.	Fund All Goals

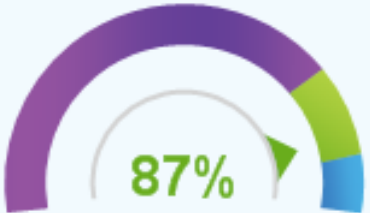
### Retirement Income Summary

Description	Owner	Value	Assign - How to Use ?	
University Pension	Jack	\$36,000 from 2015 to End of Plan (22% to Survivor)	Fund All Goals	✕
OPM Pension	Jack	\$7,200 from 2015 to End of Jack's Plan	Fund All Goals	✕

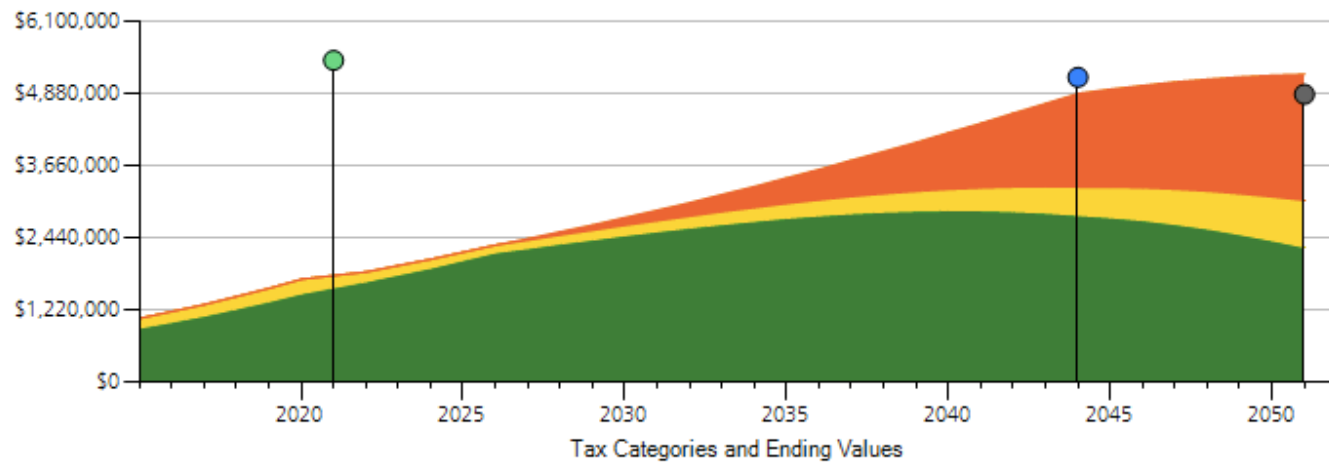
- Assumed full COLA on University pension, and COLA of inflation less 1% for OPM pension
- Retirement is age 70 for Jack and 65 for Julie
- Plan assumes Julie draws at FRA, and not at retirement (so amount in plan is higher)



# Base Plan Results

Baseline Scenario	
Average Return	Bad Timing
100%	100%
\$1,150,255	\$612,868
\$5,196,727	\$2,768,873
<b>Probability of Success</b>  <b>87%</b> <b>In Confidence Zone</b>	
\$3,294,000	

Portfolio Value Graph ?



■ Qualified Assets - \$2,278,551   
 ■ Taxable Assets - \$2,125,756   
 ● Jack's Plan Ends - 2044   
 ● Julie's Plan Ends - 2051  
■ Roth Assets - \$792,420   
 ● Julie & Jack Retire - 2021



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# Base Plan Details

Event or Ages	Year	Beginning Portfolio Value		Additions To Assets	Other Additions	Post Retirement Income	Investment Earnings	Taxes	Goals - Funds Used	Ending Portfolio Value
		Earmarked	Fund All Goals						Needs 10 Retirement	
59 / 64	2015	\$0	\$983,121	\$20,000	\$0	\$0	\$81,153	\$0		\$1,084,274
60 / 65	2016	\$0	\$1,084,274	\$20,846	\$0	\$0	\$89,404	\$0		\$1,194,524
61 / 66	2017	\$0	\$1,194,524	\$21,728	\$0	\$0	\$98,395	\$0		\$1,314,646
62 / 67	2018	\$0	\$1,314,646	\$22,647	\$0	\$0	\$108,187	\$0		\$1,445,480
63 / 68	2019	\$0	\$1,445,480	\$23,605	\$0	\$0	\$118,849	\$0		\$1,587,934
64 / 69	2020	\$0	\$1,587,934	\$24,603	\$0	\$0	\$130,454	\$0		\$1,742,992
Julie & Jack Retire	2021	\$0	\$1,742,992	\$0	\$0	\$87,446	\$127,988	\$13,447	\$141,752	\$1,803,226
66 / 71	2022	\$0	\$1,803,226	\$0	\$0	\$90,997	\$132,381	\$13,838	\$147,649	\$1,865,117
67 / 72	2023	\$0	\$1,865,117	\$0	\$0	\$140,050	\$139,724	\$22,529	\$153,791	\$1,968,572
68 / 73	2024	\$0	\$1,968,572	\$0	\$0	\$145,784	\$147,495	\$23,602	\$160,189	\$2,078,060

- Once both Jack and Julie are retired, retirement income is taxed at progressive rate



# Survivor Plans

Julie Survivor		Survivor/Inheritance		Jack Survivor	
Average Return	Bad Timing	Average Return	Bad Timing	Average Return	Bad Timing
100%	100%	100%	100%	100%	100%
\$1,150,255	\$612,868	\$1,992,156	\$1,403,646	\$1,450,934	\$946,930
\$5,196,727	\$2,768,873	\$9,000,345	\$6,341,521	\$6,555,164	\$4,278,126
Likelihood of Funding All Goals					
<b>Probability of Success</b>  <b>87%</b> <b>In Confidence Zone</b>		<b>Probability of Success</b>  <b>99%</b> <b>Above Confidence Zone</b>		<b>Probability of Success</b>  <b>93%</b> <b>Above Confidence Zone</b>	
\$3,294,000		\$3,294,000		\$3,294,000	

- Retire at age 66
- Purchased LTC for Julie
- Spend \$90k/year net in retirement

- Retire at age 66
- Inherit \$500k in 2018
- Spend \$96k/year net in retirement

- Julie retires at 65 and Jack retires at 70
- Spend \$96k/year net in retirement



# Social Security Maximization

## ■ Longevity

- The greater the longevity, the greater the value of delaying benefits (but not beyond 70)
- You can reach a breakeven point at which total payments are equal

**Table 4: The Effect of Certain Variables on the Break-Even Age—FRA vs. Age 70**

Income Tax Rate	Rate of Inflation	Rate of Return	Rate of Return > Inflation	% Benefits Taxable	Months to Break-Even	Age at Break-Even
25%	2%	5%	3%	85%	177	84.8
25%	2%	6%	4%	85%	192	86
28%	2%	4%	2%	85%	163	83.6
28%	2%	5%	3%	85%	174	84.5
28%	2%	6%	4%	85%	188	85.7
28%	2%	7%	5%	85%	205	87.1
28%	3%	6%	3%	85%	170	84.2
28%	3%	8%	5%	85%	199	86.6
28%	4%	8%	4%	85%	178	84.8
33%	2%	5%	3%	85%	170	84.2
33%	2%	6%	4%	85%	182	85.2
33%	2%	7%	5%	85%	196	86.3
33%	3%	7%	4%	85%	176	84.7
35%	2%	5%	3%	85%	168	84
35%	2%	7%	5%	85%	193	86.1

In this example, living beyond the breakeven age would favor delaying



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# Insurance

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- Life Insurance

- Optimal use is typically for income replacement and/or debt pay down
- Julie's \$500k policy is reflected in plan

- Disability

- Short term - often, most economical to have emergency fund
- Long term disability - costly, and more challenging to purchase if income is highly variable



# Insurance

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- Long term care - will review Julie's policy
- Property and Casualty
  - Auto - confirm comfortable with deductible
  - Homeowners insurance
    - Ensure deductible at acceptable level
    - Confirm coverage is sufficient for replacement cost
  - Umbrella - should be 1 to 1.5 times net worth



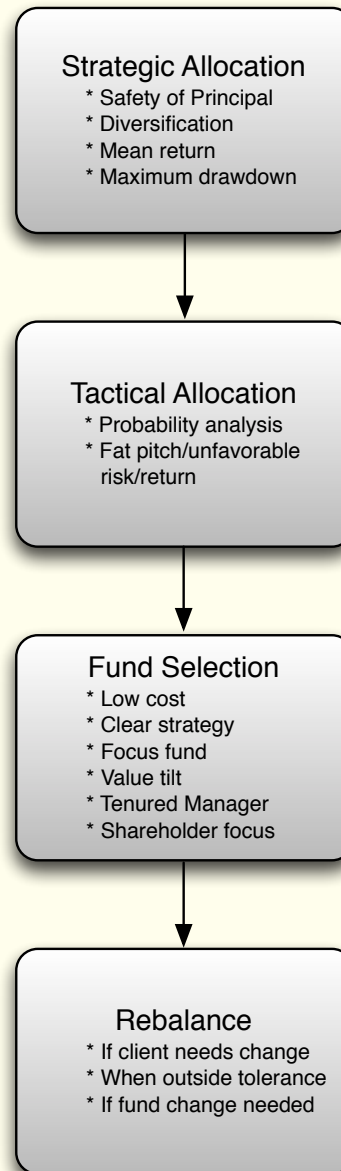
# Estate Documents

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- Will
- Powers-of-attorney
  - Georgia Advanced Health Directive
  - Financial power of attorney - springing/non-springing
- Beneficiary designations
  - Retirement accounts
  - Life insurance and annuities (latter not applicable)



# Investment Approach



# Portfolio Review

## ■ Ensure allocations match target

Sector	Actual	Target
Cash	4%	3%
Bond	34%	27%
Stock	62%	64%
Alternative	0%	6%

- Under-allocated to international
- Would consider shortening bond duration
- Highly concentrated in large cap U.S.

