

Guide to Retirement[™]

2018 Edition





Table of contents

4 Retirement landscape

Factors that shape today's retirement experience

13 Saving

Behaviors and best practices while saving for retirement

21 Spending

Considerations for living in retirement

37 ■ Investing

Building a retirement portfolio

41 Reference

J.P. MORGAN RETIREMENT STRATEGIST TEAM

| S. Katherine Roy, CFP® | Lena Rizkallah, J.D., CRPC [®] | Je Oh |
|----------------------------------|---|-------------------------|
| Chief Retirement Strategist | Retirement Strategist, Americas | Quantitative Strategist |
| Sharon Carson, CRPC [®] | Wina Appleton, CFA | Joseph Marlo |
| Retirement Strategist, Americas | Retirement Strategist, Asia | Quantitative Strategist |



Page reference

Retirement landscape

- 4 The retirement equation
- 5 Life expectancy probabilities
- 6 Older Americans in the workforce
- 7 Managing expectations of ability to work
- 8 Changes in lifestyle
- 9 Social Security timing tradeoffs
- 10 Maximizing Social Security benefits
- 11 Social Security benefit claiming considerations
- 12 Spending and inflation

Saving

- 13 Retirement savings checkpoints
- 14 Income replacement needs in retirement
- 15 Income replacement needs vary by household income
- 16 Benefit of saving and investing early
- 17 Annual savings needed if starting today
- 18 The power of tax-deferred compounding
- 19 Evaluate a Roth at different life stages
- 20 Maximizing an HSA for health care expenses in retirement

Spending

- 21 Changes in spending
- 22 Effects of withdrawal rates and portfolio allocations
- 23 Dollar cost ravaging-timing risk of withdrawals
- 24 Top tax changes for individuals and small business owners
- 25 The Tax Cuts and Jobs Act: Marginal tax brackets
- 26 The Tax Cuts and Jobs Act: Potential impact on effective tax rates
- 27 Comparison of state taxes paid by a retiree household
- 28 A closer look at state taxes paid by a retiree household

- 29 Consider proactive tax management strategies
- 30 Rising annual health care costs in retirement
- 31 Projected Medicare cost growth
- 32 Variation in Medicare Advantage costs
- 33 Long-term care considerations
- 34 Long-term care planning
- 35 Median annual cost of nursing home care (private room)
- 36 A closer look at annual cost of nursing home care (private room)

Investing

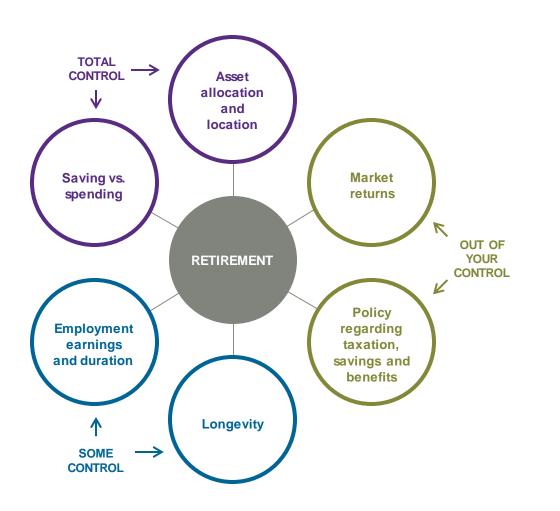
- 37 Goals-based wealth management
- 38 Structuring a portfolio to match investor goals in retirement
- 39 Structuring a portfolio in retirement: The bucket strategy
- 40 Impact of being out of the market

Reference

- 41 A closer look at tax rates-2018
- 42 Traditional IRAs vs. Roth IRAs-2017/2018
- 43 Retirement plan contribution and deferral limits—2017/2018
- 44 Options to consider when retiring or changing jobs
- 45 Power of attorney and asset transfer considerations
- 46 What is Medicare?
- 47 65 and working: Should I sign up for Medicare?
- 48 Understanding annuities: Which annuity may be right for you?
- 49 Index definitions & disclosures



The retirement equation



A SOUND RETIREMENT PLAN

Make the most of the things that you can control but be sure to evaluate factors that are somewhat or completely out of your control within your comprehensive retirement plan.



Life expectancy probabilities

5

Average life expectancy at age 65 97% 100% Women Men Difference Year 90% 1990 84.1 80.1 4.0 86% 79% 2016 85.7 83.2 2.5 80% 74% 73% 2090 89.5 87.5 2.0 63% 60% 55% 49% 43% 40% 34% 22% 20% 20% 14% 7% 3% 1% 4% 0% 75 years 80 years 90 years 85 years 95 years 100 years Women Men Couple – at least one lives to specified age

If you're 65 today, the probability of living to a specific age or beyond

PLAN FOR LONGEVITY

Average life expectancy continues to increase and is a mid-point not an end-point. You may need to plan on the probability of living much longer – perhaps 30+ years in retirement – and invest a portion of your portfolio for growth to maintain your purchasing power over time.

Chart: Social Security Administration, Period Life Table, 2014 (published in 2017), J.P. Morgan Asset Management. Table: Social Security Administration 2017 OASDI Trustees Report.

Probability at least one member of a same-sex female couple lives to age 90 is 56% and a same-sex male couple is 40%.



Older Americans in the workforce

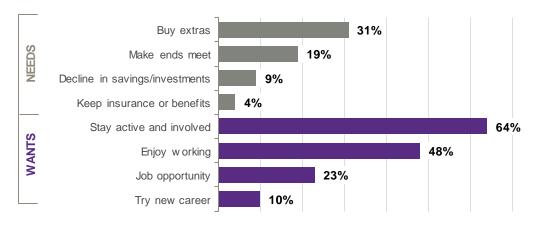
Percent of people in the civilian labor force 1996-2026

37% 40% **-O**-65-69 32% 0 29% **-0-**70-74 0-30% 23% 22% **----**75-79 19% 0 17% Ο 20% 13% Ο 0-10% 15% O 12% 10% 7% 0% 1996 2006 2016 2026 Total civilian 32mm 36mm 48mm 67mm population 65+

IT'S STILL OFF TO WORK I GO

More people are working later in life, motivated by the desire to do so.

Major reasons people work in retirement



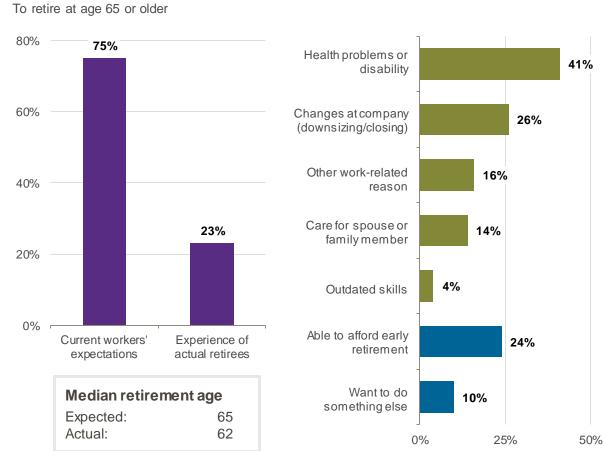
Source (top chart): Bureau of Labor Statistics, Employment Projections, Table 3.2 and Table 3.3. Actual data to 2016 and projection to 2026. Civilian population age 65+ is non-institutionalized population.

Source (bottom chart): Employee Benefit Research Institute, Mathew Greenwald & Associates, Inc., 2017 Retirement Confidence Survey. Data as of March 2017. Latest available data through December 31, 2017.



Managing expectations of ability to work

Expectations of workers vs. retirees



Reasons cited for retiring earlier than planned

EARLY RETIREMENT

You may not have complete control over when you retire, so you should consider having a back-up plan. You may have to draw income earlier and make your portfolio last longer than you anticipate.



7

Changes in lifestyle

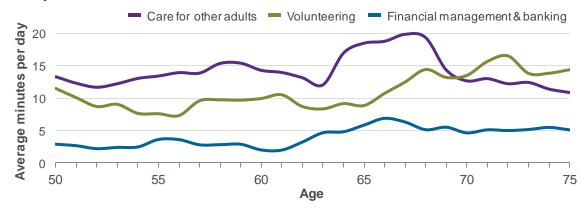
Amount of daily hours spent per activity by age

24 Other 20 Eating, drinking, grooming, home care and household management 16 Socializing, leis ur e and exercise 12 Work 8 Sleep 0 55 60 65 70 75 Age

SPEND TIME PLANNING YOUR TIME

Retirement offers the gift of time to do the things that matter most to you. Knowing what those activities are prior to retiring can ease the transition into this new life stage.

Activity trends in retirement



Values include people who do and do not participate in the activities. Values are weighted by the age and then averaged across rolling five-year age groups. Each category includes time spent traveling to and from the activity if applicable.

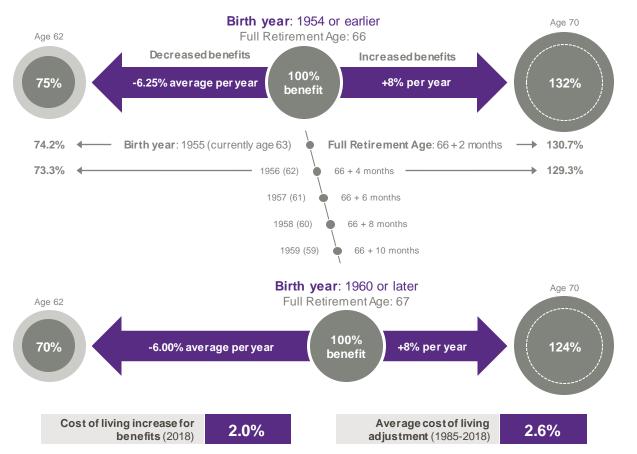


Source: Bureau of Labor Statistics American Time Use Survey 2016, J.P. Morgan Asset Management analysis.

Social Security timing tradeoffs

Benefits differ by birth year and claim age

Full Retirement Age = 100% benefit



UNDERSTAND THE TRADEOFFS

Deciding when to claim benefits will have a permanent impact on the benefit you receive. Claiming before your full retirement age can significantly reduce your benefit, while delaying increases it.

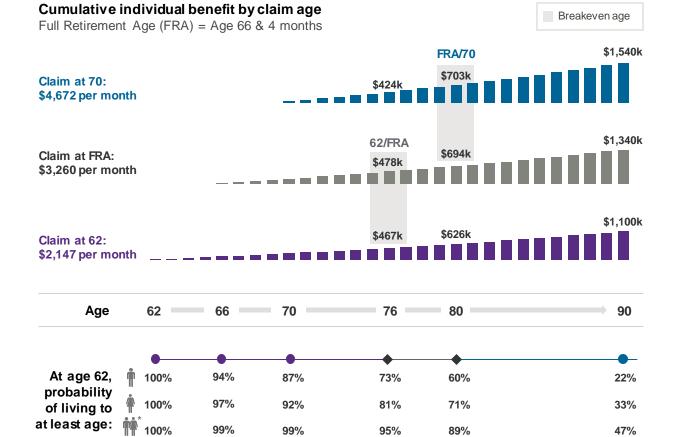
In 2017, full retirement age began transitioning from 66 to 67 by adding two months each year for six years. This makes claiming early even more of a benefit reduction.

For illustrative purposes only. For those born in 1956 or earlier, there is a 7.3% compound grow th rate for each year of waiting to take benefits; 7.4% for those born in 1957 or after. The Social Security Amendments Act of 1983 increased FRA from65 to 67 over a 40-year period. The first phase of transition increased FRA from65 to 66 for individuals turning 62 betw een 2000 and 2005. After an 11-year hiatus, the transition from66 to 67 (2017-2022) will complete the move.



9

Maximizing Social Security benefits



PLANNING OPPORTUNITY

Delaying benefits means increased Social Security income later in life, but your portfolio may need to bridge the gap and provide income until delayed benefits are received.

Source: Social Security Administration, J.P. Morgan Asset Management.

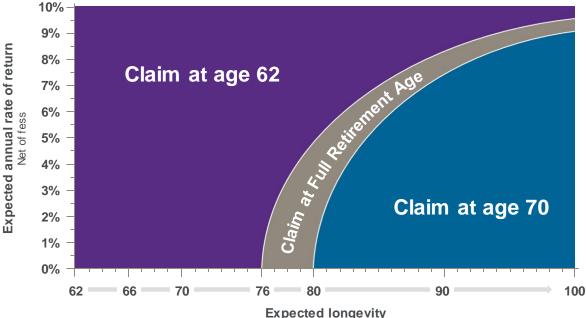
*Couple assumes at least one lives to the specified age or beyond. Breakeven assumes the same individual, born in 1956, earns the maximum w age base, retires at the end of age 61 and claims at 62 & 1 month, 66 & 4 months and 70, respectively. Benefits are assumed to increase each year based on the Social Security Administration 2017 Trustee's Report "intermediate" estimates (annual benefit increase of 3.1% in 2019 and 2.6% thereafter). Monthly amounts w ithout the cost of living adjustments (not show n on the chart) are: \$2,147 at age 62; \$2,928 at FRA; and \$3,787 at age 70. Exact breakeven ages are 76 & 3 months and 80 & 5 months.



Social Security benefit claiming considerations

Comparison of claim age based on an individual's expected rate of return and longevity

Color represents the claim age with the highest expected lifetime benefits



CONSIDER PORTFOLIO RETURNS AND YOUR LIFE EXPECTANCY

The lower your expected long-term investment return and the longer your life expectancy – the more it pays to wait to take your benefit.

How to use:

- · Go to the intersection of your expected rate of return and your expected longevity.
- The color at this intersection represents the Social Security claim age that maximizes total Social Security benefits over the course of one's life given the three options of age 62, Full Retirement Age (age 66 & 4 months) and age 70.
- Example: For an individual invested in a diversified 40/60 portfolio (expected rate of return of 5%) and average expected female longevity (age 86) = Claim at age 70.

Source (chart): Social Security Administration, J.P. Morgan Asset Management.

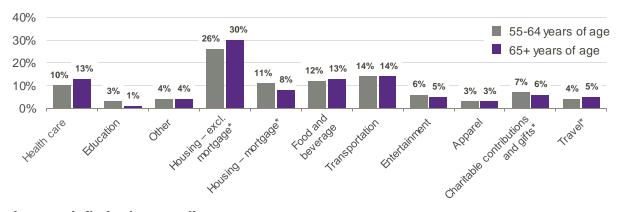
Source (longevity at age 62): Social Security Administration, Period Life Table, 2014 (published in 2017), J.P. Morgan Asset Management. Source (expected returns): J.P. Morgan Asset Management Long-Term Capital Market Assumptions.

Assumes the same individual, born in 1956, retires at the end of age 61 and claims at 62 & 1 month, 66 & 4 months and 70, respectively. Benefits are assumed to increase each year based on the Social Security Administration 2017 Trustee's Report "intermediate" estimates (annual benefit increase of 3.1% in 2019 and 2.6% thereafter). Expected rate of return is deterministic, in nominal terms, and net of fees.



Spending and inflation

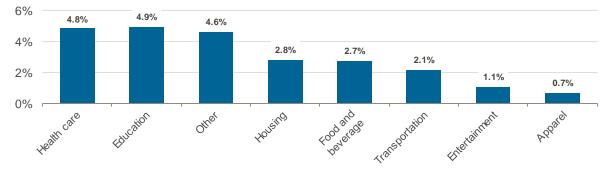
Spending by age and category



LOSING GROUND

Inflation can disproportionately affect older Americans due to differences in spending habits and price increases in those categories.

Average inflation by spending category 1982-2017



*There are no individual inflation measures for these specific subcategories.

Source (top chart): BLS, 2016 Consumer Expenditure Survey for households where at least one member has a bachelor's degree. Charitable contributions include gifts to religious, educational and political organizations, and other cash gifts. Spending percentages may not equal 100% due to rounding.

Source (bottom chart): BLS, Consumer Price Index, J.P. Morgan Asset Management. Data represent annual percentage increase from December 1981 through December 2017 with the exception of entertainment and education, which date back to 1993. The inflation rate for the Other category is derived from personal care products and tobacco. Tobacco has experienced 7% inflation since 1986 but each age group only spends 0.4%-0.7% on tobacco (21%-37% of combined personal care products and tobacco), which is a low er proportion than represented in the Other inflation rate.



Modest forward-looking returns may require higher savings going forward

Values assume you would like to maintain an equivalent lifestyle in retirement

| | \$50,000 | \$75,000 | \$100,000 | \$150,000 | \$200,000 | \$250,000 | \$300,000 |
|----------------|---|----------|-----------|-----------|-----------|-----------|-----------|
| Current age | Checkpoint (x current household income) | | | | | | |
| 25 | - | 0.3 | 0.6 | 1.0 | 1.3 | 1.5 | 1.7 |
| 30 | 0.3 | 0.9 | 1.2 | 1.7 | 2.1 | 2.4 | 2.5 |
| 35 | 0.9 | 1.6 | 2.0 | 2.6 | 3.0 | 3.4 | 3.5 |
| 40 | 1.6 | 2.4 | 2.9 | 3.6 | 4.2 | 4.6 | 4.8 |
| 45 | 2.5 | 3.4 | 4.0 | 4.8 | 5.5 | 6.0 | 6.2 |
| 50 | 3.5 | 4.6 | 5.3 | 6.3 | 7.1 | 7.7 | 8.0 |
| 55 | 4.7 | 6.0 | 6.9 | 8.1 | 9.1 | 9.7 | 10.1 |
| 60 | 6.2 | 7.7 | 8.8 | 10.2 | 11.4 | 12.2 | 12.6 |
| 65 | 8.1 | 10.0 | 11.3 | 13.0 | 14.5 | 15.5 | 16.0 |

How to use:

- Household income is assumed to be gross income (before tax and savings).
- · Go to the intersection of your current age and your closest current household income.
- Multiply your salary by the checkpoint shown. This is the amount you should have saved today, assuming you continue contributions of 10% going forward.
- Example: For a 40-year-old with a household income of \$100,000: \$100,000 x 2.9 = \$290,000.

This chart is for illustrative purposes only and must not be relied upon to make investment decisions. J.P. Morgan's model is based on J.P. Morgan Asset Management's (JPMAM) proprietary long-term capital market assumptions (10-15 years) and an 80% confidence level. Household income replacement rates are derived from an inflation-adjusted analysis of: Consumer Expenditure Survey (BLS) data (2011-2014); Social Security benefits using modified scaled earnings in 2017 for a single w age earner at age 65 and a spousal benefit at age 62 reduced by Medicare Part B premiums. For more details, see slide 15.

Consult with a financial advisor for a more personalized assessment. Allocations, assumptions and expected returns are not meant to represent JPMAM performance. Given the complex risk/reward tradeoffs involved, we advise clients to rely on judgment as well as quantitative optimization approaches in setting strategic allocations. References to future returns for either asset allocation strategies or asset classes are not promises or even estimates of actual returns a client portfolio may achieve.

MODEL ASSUMPTIONS

Assumed annual gross savings rate: **10%***

Pre-retirement investment return: **6.0%**

Post-retirement investment return: **5.0%**

Inflation rate: 2.25%

Retirement age -

- Primary earner: 65
- Spouse: 62

Years in retirement: 30

*10% is approximately twice the U.S. average annual savings rate

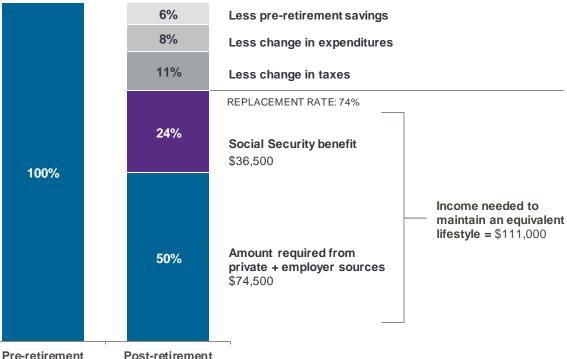


Income replacement needs in retirement

Income replacement rate methodology

Based on gross annual household income

\$150,000 income



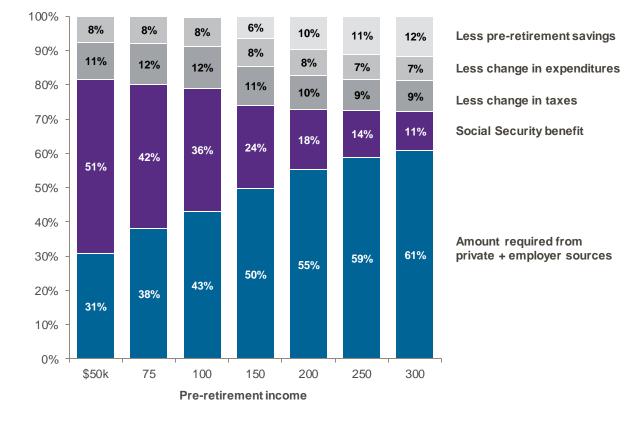
ESTIMATING RETIREMENT LIFESTYLE NEEDS

Less income may be needed in retirement to maintain an equivalent lifestyle due to no longer needing to save, lower spending in certain categories and lower income taxes.

Source: J.P. Morgan Asset Management analysis, 2017. Household income replacement rates are derived from an inflation-adjusted analysis of: Consumer Expenditure Survey (BLS) data (2013-2016); Social Security benefits using modified scaled earnings in 2017 for a single w age earner at age 65 and a spousal benefit at age 62 reduced by Medicare Part B premiums; and 2017 OASDI and FICA taxes. The income replacement needs may be low er for households in which both spouses are working and the second spouse's individual benefits are greater than their spousal benefit. Single household income replacement needs may vary as spending is typically less than a tw o-spouse household; how ever, the loss of the Social Security spousal benefit may offset the spending reduction. Percentages and values may not sum due to rounding.



Replacement rate detail by household income



Source: J.P. Morgan Asset Management analysis, 2017. Household income replacement rates are derived from an inflation-adjusted analysis of: Consumer Expenditure Survey (BLS) data (2013-2016); Social Security benefits using modified scaled earnings in 2017 for a single wage earner at age 65 and a spousal benefit at age 62 reduced by Medicare Part B premiums; and 2017 OASDI and FICA taxes. The income replacement needs may be low er for households in which both spouses are working and the second spouse's individual benefits are greater than their spousal benefit. Single household income replacement needs may vary as spending is typically less than a tw o-spouse household; how ever, the loss of the Social Security spousal benefit may offset the spending reduction. Percentages and values may not sum due to rounding.

J.P.Morgan Asset Management

15

SPENDING NEEDS BY

Estimated income

replacement needs

depending on pre-

range from 72%-82%

retirement household

income. The more you

earn, the more of your

responsible for providing

income you will be

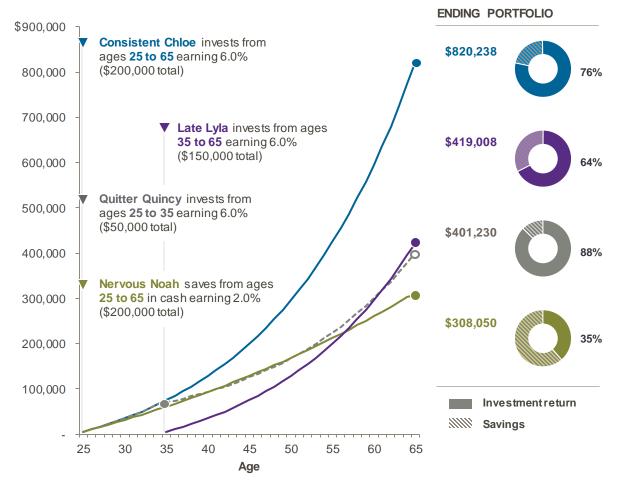
as Social Security replaces less.

INCOME

15

Benefit of saving and investing early

Account growth of \$5,000 invested/saved annually



SAVING FUNDAMENTALS

Saving early and often, and investing what you save, are some of the keys to a successful retirement due to the power of compounding over the long term.

16

The above example is for illustrative purposes only and not indicative of any investment. Account value in this example assumes a 6.0% annual return and cash assumes a 2.0% annual return. Source: J.P. Morgan Asset Management, Long-Term Capital Market Assumptions. Compounding refers to the process of earning return on principal plus the return that w as earned earlier.



16

Annual savings needed if starting today

| | \$50,000 | \$75,000 | \$100,000 | \$150,000 | \$200,000 | \$250,000 | \$300,000 |
|------------------|---|----------|-----------|-----------|-----------|-----------|-----------|
| Start saving age | Savings rate (x current household income) | | | | | | |
| 25 | 9% | 11% | 13% | 15% | 16% | 18% | 18% |
| 30 | 12 | 15 | 16 | 19 | 21 | 22 | 23 |
| 35 | 15 | 19 | 21 | 25 | 27 | 29 | 30 |
| 40 | 20 | 25 | 28 | 33 | 36 | 29 | 40 |
| 45 | 28 | 35 | 39 | 45 | 50 | 54 | 55 |
| 50 | 41 | 51 | 58 | 67 | 74 | 79 | 82 |

How to use:

- · Go to the intersection of your current age and your closest current household income.
- This is the percentage of your current household income you should contribute annually going forw ard if you have \$0 saved for retirement today.
- Example: A 40-year-old with household income of \$100,000 and \$0 saved for retirement today will need to save 28% every year until retirement.

Important things you need to know:

- · Modest forward-looking returns may require higher savings going forward.
- · Values assume you would like to maintain an equivalent lifestyle in retirement.
- · Household income is assumed to be gross income (before tax and savings).

Consult with a financial advisor for a more personalized assessment. Allocations, assumptions and expected returns are not meant to represent JPMAM performance. Given the complex risk/reward tradeoffs involved, we advise clients to rely on judgment as well as quantitative optimization approaches in setting strategic allocations. References to future returns for either asset allocation strategies or asset classes are not promises or even estimates of actual returns a client portfolio may achieve.



Pre-retirement investment return: 6.0%

Post-retirement investment return: **5.0%**

Inflation rate: 2.25%

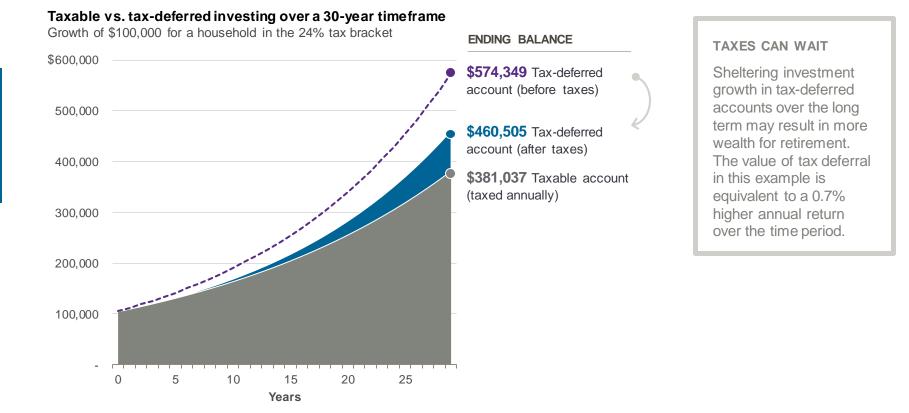
Retirement age –

• Primary earner: 65

• Spouse: 62

Years in retirement: 30





Source: JP Morgan Asset Management. Chart show s after-tax \$100,000 initial account value in the beginning of year one for a taxdeferred account and a taxable account. Assumes a 6.0% annual return for both accounts. Investment returns in taxable account are taxed annually at 24% (capital gains and qualified dividends are not considered in this analysis). Tax-deferred account balance is taken as a lump sum after year 30 and taxed at 24% federal tax rate. If tax-deferred account is taken as lump sum at other tax rates, after-tax balance will be \$517,427 (12%), \$469,992 (22%), \$422,557 (32%), \$408,327 (35%), \$398,840 (37%). This hypothetical illustration is not indicative of any specific investment and does not reflect the impact of fees or expenses. This chart is for illustrative purposes only. Past performance is no guarantee for future results.



18

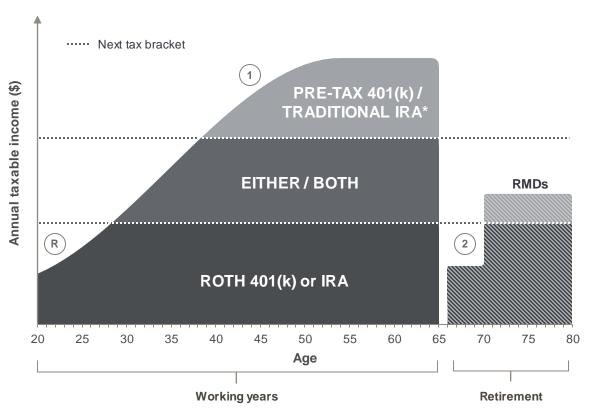
18

Saving

Evaluate a Roth at different life stages

Changes in lifetime taxable income

Hypothetical wage curve



THINK **OPPORTUNISTICALLY**

Effectively managing taxes over a lifetime requires a careful balance of your current income tax picture and a focus on income tax diversification. Consider:

Rule: Contributing to a Roth early in your career and shifting as your income increases.

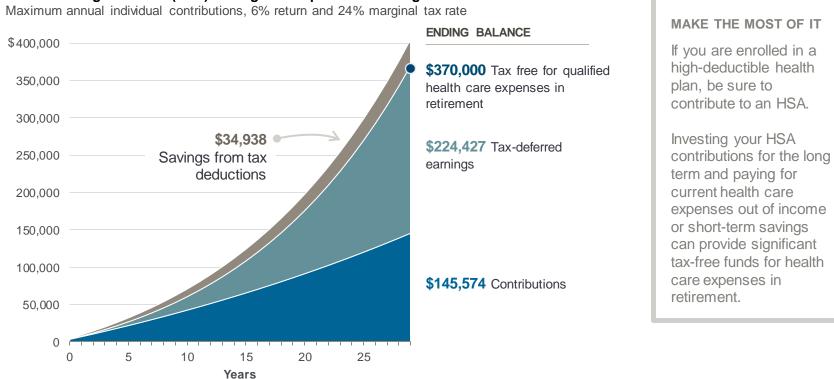
1. Roth 401(k) contributions in peak earning years if wealth is concentrated in tax-deferred accounts.

2. Proactive Roth conversions in lower income retirement years if RMDs are likely to push you into a higher bracket.

*If eligible to make a deductible contribution (based on your MAGI). The illustration reflects savings options into Traditional and Roth IRA accounts, as well as into pre-tax retirement and Roth 401(k) accounts.

RMD = Required Minimum Distribution. RMDs are calculated every year based on the account value and the owner's life expectancy using IRS actuarial data. IRA ow nersmust begin taking RMDs no later than April 1 following the year the ow ner turns age 70½. For ow ners of employer-based qualified plans, RMDs must begin at age 70½ or when the owner retires, whichever is later. Owners of Roth IRAs are not required to take RMDs; how ever, RMDs are required in Roth 401(k) accounts. Any employer contribution will be applied to the participant's pre-tax retirement account for both Traditional and Roth 401(k) plans, and subsequent distributions will be subject to tax.





Health Savings Account (HSA) savings are triple tax advantaged¹

¹ Must have a qualifying high-deductible health plan to make contributions. After age 65 funds in the HSA may be withdrawn tax free for qualified medical expenses or withdrawn at ordinary income tax rates for other expenses. See IRS Publication 502 for details.

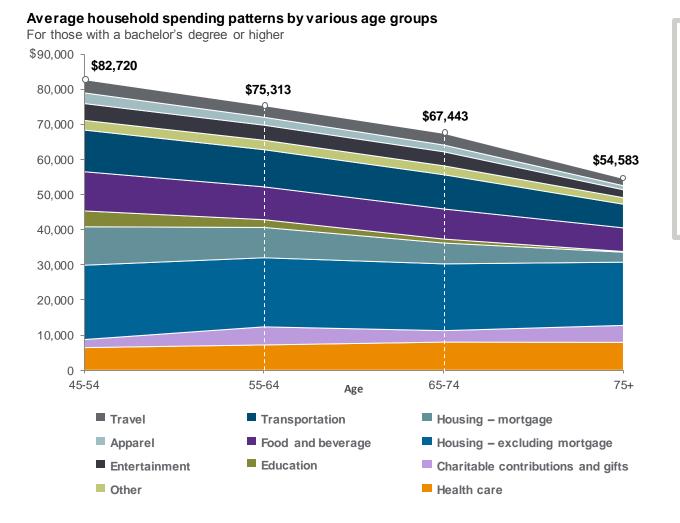
The above example is for illustrative purposes only and not indicative of any investment. Federal taxes; states may differ. Does not include account fees. Present value of illustrated HSA after 30 years is \$189,803. If the annual tax deduction is invested with an after-tax return of 4.56%, the cumulative hypothetical return is \$34,809. Assumes cash or income used for health care expenses is not withdrawn from an account with a tax liability. The example assumes the HSA is fully invested; if \$2,000 w as held in a cash account the illustrated cumulative HSA account value would be \$360,516. 2018 contribution limit is \$3,450 adjusted for inflation of 2.25% for 30 years.

HSA contributions made through payroll deduction or qualified employer 457 cafeteria plans may also avoid federal payroll and unemployment taxes unless you are self-employed. These tax reductions may result in low er Social Security and unemployment insurance benefit amounts. Contributions outside of an employer plan are generally tax deductible but do not avoid payroll and unemployment taxes. This is not intended to be individual tax advice; consult your tax advisor.



Saving

Changes in spending



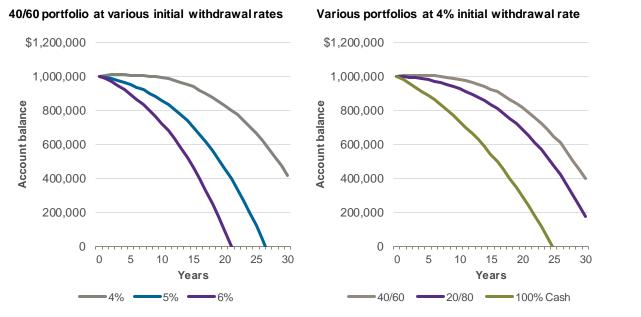
WHAT TO EXPECT

Household spending peaks at the age of 45, after which spending declines in all categories but health care and charitable contributions and gifts. Housing is the largest expense, even at older ages.

Source: J.P. Morgan Asset Management. Estimates based on average consumer expenditure from the 2016 Consumer Expenditure Survey (BLS) for each age group excluding pension contributions. Population includes households where a bachelor's degree or higher is achieved by any member. Average household size for age 45–54 is 3.0, age 55–64 is 2.3, age 65–74 is 2.0 and age 75+ is 1.7.

Years of sustainable withdrawals for a portfolio for typical markets

Projected nominal outcomes, 50th percentile



ONE SIZE DOES NOT FIT ALL

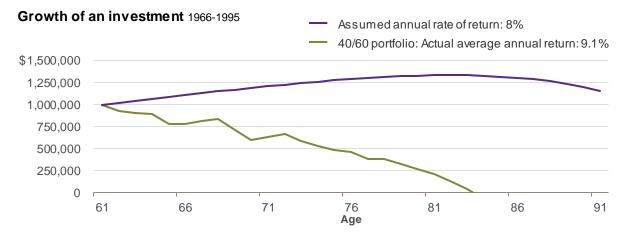
Higher initial withdrawal rates or overly conservative portfolios can put vour retirement at risk. However, setting your spending at retirement too low and not adjusting along the way may require unnecessary lifestyle sacrifices in retirement. You may want to consider a dynamic approach that adjusts over time to more effectively use your retirement savings.

50th percentile means that 50% of the time you'll have better outcomes. Based on the high percentage of outcomes that tend to be clustered near the median, this may be considered the most likely potential outcome. For the 40/60 portfolio at a 4% withdraw al rate, the real portfolio value at period 30 is \$214,164 vs.\$417,489 nominal.

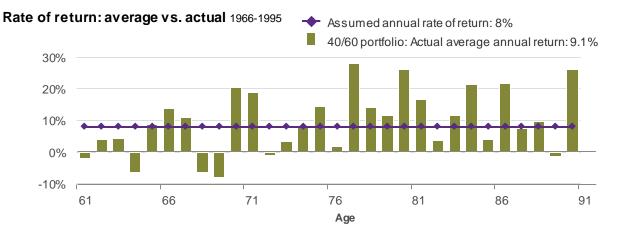
These charts are for illustrative purposes only and must not be used, or relied upon, to make investment decisions. Portfolios are described using equity/bond denotation (e.g. a 40/60 portfolio is 40% equities and 60% bonds). Hypothetical portfolios are composed of US Large Cap for equity, US Aggregate Bonds and US Cash for cash, with compound returns projected to be 5.50%, 3.25% and 2.00%, respectively. J.P. Morgan's model is based on J.P. Morgan Asset Management's (JPMAM) proprietary Long-Term Capital Market Assumptions (10–15 years). The resulting projections include only the benchmark return associated with the portfolio and does not include alpha from the underlying product strategies within each asset class. The yearly withdrawal amount is set as a fixed percentage of the initial amount of \$1,000,000 and is then inflation adjusted over the period (2.25%). Allocations, assumptions and expected returns are not meant to represent JPMAM performance. Given the complex risk/rew ard tradeoffs involved, we advise clients to rely on judgment as well as quantitative optimization approaches in setting strategic allocations. References to future returns for either asset allocation strategies or asset classes are not promises or even estimates of actual returns a client portfolio may achieve.



Dollar cost ravaging—timing risk of withdrawals



Assumptions: Enter retirement at age 60 with \$1,000 000. Start with a 5.4% withdrawal of \$54,000. Increase dollar amount of withdrawal by overall rate of inflation (3%) each year, which is lower than the average inflation rate of the period between 1966-1995.



SEQUENCE OF RETURN RISK

23

Withdrawing assets in down markets early in retirement can ravage a portfolio. Consider investment solutions that incorporate downside protection such as:

- Greater diversification among non-correlated asset classes
- Investments that use options strategies for defensive purposes
- Annuities with guarantees and/or protection features

Source: J.P. Morgan Asset Management. Returns are based on a hypothetical portfolio, which is assumed to be invested 40% in the S&P 500 Total Return Index and 60% in the Barclays Capital U.S. Aggregate Index. The assumptions are presented for illustrative purposes only. They must not be used, or relied upon, to make investment decisions. There is no direct correlation betw een a hypothetical investment and the anticipated future return of an index. Past performance does not guarantee future results.



| | 2017 | 2018 |
|---|---|---|
| Individual income tax brackets ¹ | Seven income tax brackets Top bracket: 39.6% at \$418,400 individual / \$470,700 married | Seven income tax brackets Top bracket: 37% at \$500,000 individual / \$600,000 married |
| Alternative Minimum Tax | Exemption: \$54,300 / \$160,900 Phase-out threshold: \$120,700 / \$160,900 | Exemption: \$70,300 / \$109,400 Phase-out threshold: \$500,000 / \$1mm |
| Standard Deduction | • \$6,350 / \$12,700 | • \$12,000 / \$24,000 |
| State and local tax deduction | Deductible ² | Capped at \$10,000 on state / local income, property and sales tax |
| Mortgage interest deduction | Interest deductible up to \$1mm for primary and secondary homes; \$100k home equity debt | Limited to \$750,000 debt on primary and secondary homes; no deduction for home equity debt |
| Estate, gift and Generation Skipping Transfer (GST) tax | • \$5.49mm / \$10.98mm | • \$11.2mm / \$22.4mm ³ |
| Tax rate for owners of pass-through entities | Business income taxed at individual rate (max 39.6%) | May deduct 20% of qualified business income⁴; 29.6% effective rate |

HOW DOES THE NEW TAX LAW IMPACT YOUR BOTTOM LINE?

Comprehensive tax reform through the Tax Cuts and Jobs Act of 2017 (TCJA) may affect almost every taxpayer beginning in 2018.

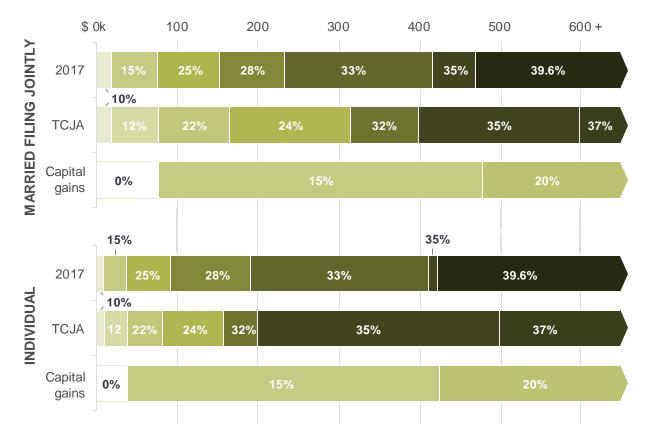
¹ 2018 top income tax bracket 40.8% inclusive of 3.8% Medicare Surtax on unearned/investment income; for 2017, top rate w as 43.4%. ² Deduction w as limited or phased-out for AMT filers. ³ Subject to IRS guidance. ⁴ The 20% deduction phases out for individuals earning \$157,500/\$315,000 (married) and disappears entirely for individuals with income exceeding \$207,500/\$415,000 (married) engaged in a "specific service business." These are businesses that focus on health, law, consulting, athletics, financial services, brokerage service or w here the main asset is the skill or reputation of employees/ow ners. For business owners in other businesses and with income above the thresholds, the deduction may not exceed 50% of ow ner's share of W-2 employee w ages paid by the business or 25% of W-2 w ages paid by the business plus 2.5% of original purchase price of long-term property used in production of income. Further IRS guidance to follow.



The Tax Cuts and Jobs Act: Marginal tax brackets

Federal income tax rates

Comparison of marginal tax brackets by filing status



OUT WITH THE OLD, IN WITH THE NEW

While the number of tax brackets remains the same with the Tax Cuts and Jobs Act (TCJA), income ranges and marginal rates are significantly modified.

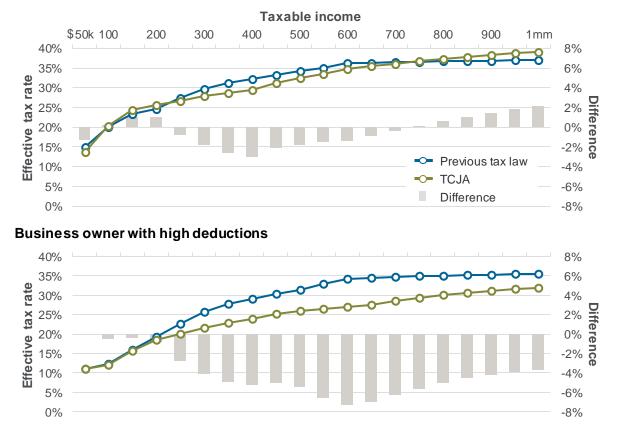
Income thresholds for capital gains and qualified dividends remain unchanged.

Top tax rate not reflective of additional 3.8% Medicare Surtax on unearned/investment income for individuals/married couples with MAGI at or exceeding \$200,000/\$250,000. Marginal tax brackets under TCJA will sunset after 2025. Note that capital gains and qualified dividends are aligned to income thresholds and not marginal brackets under the new law. In the future, tax brackets will be adjusted for inflation using chained-CPI (also know n as C-CPI-U); this is a permanent feature under TCJA.



Salaried worker with high deductions

Effective federal and state tax rate, 2018



YOU TAKE THE GOOD, YOU TAKE THE BAD

26

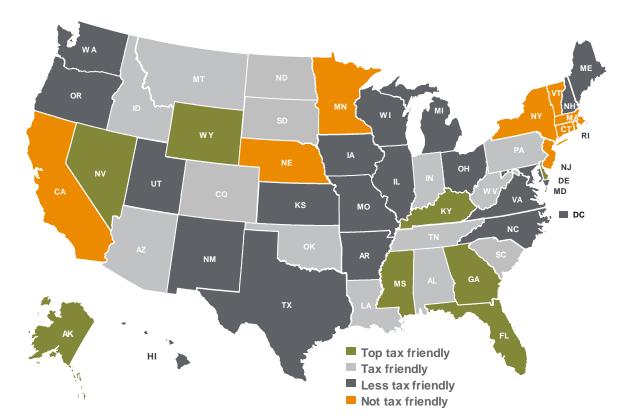
While the Tax Cuts and Jobs Act (TCJA) is expected to benefit many taxpayers, it is unclear how some households who previously had high itemized deductions may fare, as they balance the benefit of lower marginal rates with new limits on itemized deductions.

Be sure to work with a tax professional to understand how the changes may affect your overall tax bill.

Example assumes income for a married couple filing jointly. Effective tax rates are computed as total federal, state and local income taxes paid as a percentage of gross income, which includes all forms of earned and unearned income. Analysis does not reflect the impact of tax credits, although this example assumes taxpayers will receive two child tax credits. Home values were estimated as a multiple of income from data based on the Home Mortgage Disclosure Act. Home loan to value ratio is 80% and mortgage interest rate of 5%. See slide 24 for explanation of how 20% deduction is applied to taxable income of certain pass-through business owners. In this scenario, we assume the pass-through entity pays out 50% of its income as W-2 wages and qualifies for the full deduction.

Source: Michael Cembalest, J.P. Morgan Asset Management, 2017. For more information, please see: https://am.jpmorgan.com/private-bank/public/gl/en/eotm-tcja-implications-am

Comparison of state taxes paid by a retiree household



MODEL ASSUMPTIONS

27

Scenario based on retired married couple filing jointly

State income tax on1 -

- Annual retirement plan distribution: \$80,000
- Total Social Security benefits: \$42,000

Property tax on²: 2.5x median home value by state

Sales/average local sales tax on³: Remaining income net of federal & state income and property tax

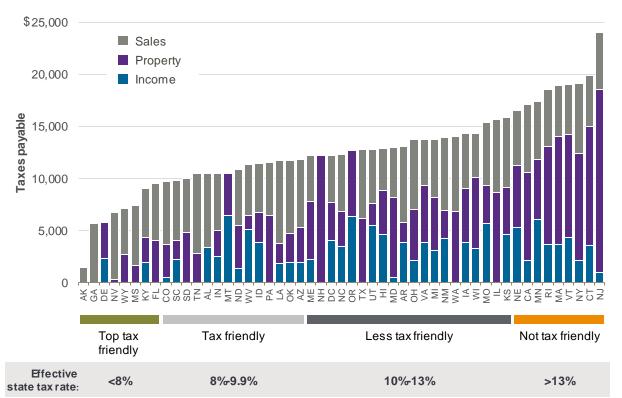
Tax favorability based on household overall effective state tax rate: Top tax friendly (<8%), Tax friendly (8%-9.9%), Less tax friendly (10%-13%), Not tax friendly (>13%). Retired married household age 65. ¹ State income tax liability is based on all taxable sources of retirement income minus allow able state personal exemptions and a standard deduction. State-specific exemptions, deductions and/or credits related to eligible retirement income and Social Security are included. States with no income tax: AK, FL, NV, SD, TX, WA, WY. States that tax interest and dividends only: TN and NH. States that tax Social Security: CO, CT, KS, MN, MO, MT, NE, NM, ND, RI, UT, VT, WV. States that do not tax retirement plan distributions or Social Security: IL, MS, PA. ² State property tax applies to home value only and includes statespecific homestead exemptions/credits. ³ States with no sales tax: AK, DE, MT, NH, OR (local taxes may apply).

Of note: CA imposes a 1% surtax on taxpayers earning more than \$1mm (\$1,074,996 married) for a top marginal tax rate of 13.3%. NYC levies an additional 3.078-3.876% on taxable income. From 2018 to 2025, certain New York tax rates will be incrementally reduced. HI top marginal income tax rate reduced to 8.25% in 2017 and increased to 11% in 2018. Illinois tax rate increased to 4.95% on all income in 2018.

Source: J.P. Morgan Asset Management. The presenter of this slide is not a tax or legal advisor, and this slide should not be used as such. Clients should consult a personal tax or legal advisor prior to making any tax- or legal-related investment decisions.



Composition of estimated state taxes



MODEL ASSUMPTIONS

Scenario based on retired married couple filing jointly

State income tax on1-

- Annual retirement plan distribution: \$80,000
- Total Social Security benefits: \$42,000

Property tax on²: 2.5x median home value by state

Sales/average local sales tax on³: Remaining income net of federal & state income and property tax

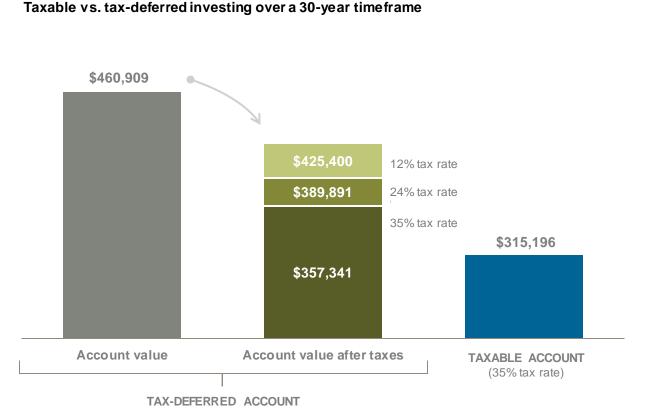
Retired married household age 65. ¹ State income tax liability is based on all taxable sources of retirement income minus allow able state personal exemptions and a standard deduction. State-specific exemptions, deductions and/or credits related to eligible retirement income and Social Security are included. States with no income tax: AK, FL, NV, SD, TX, WA, WY. States that tax interest and dividends only: TN and NH. States that tax Social Security: CO, CT, KS, MN, MO, MT, NE, NM, ND, RI, UT, VT, WV. States that do not tax retirement plan distributions or Social Security: IL, MS, PA. ² State property tax applies to home value only and includes state-specific homestead exemptions/credits. ³ States with no sales tax: AK, DE, MT, NH, OR (local taxes may apply).

Of note: CA imposes a 1% surtax on taxpayers earning more than \$1M (\$1,074,996 married) for a top marginal tax rate of 13.3%. NYC levies an additional 3.078-3.876% on taxable income. From 2018 to 2025, certain New York tax rates will be incrementally reduced. HI top marginal income tax rate reduced to 8.25% in 2017 and increased to 11% in 2018. Illinois tax rate increased to 4.95% on all income in 2018.

Source: J.P. Morgan Asset Management. The presenter of this slide is not a tax or legal advisor, and this slide should not be used as such. Clients should consult a personal tax or legal advisor prior to making any tax- or legal-related investment decisions.



Consider proactive tax management strategies



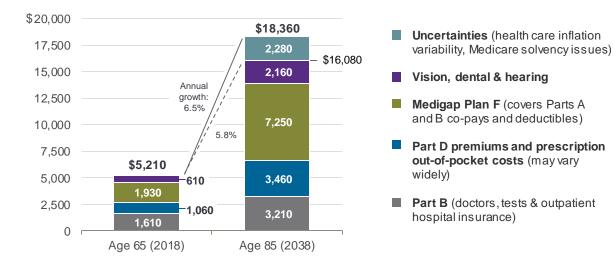
KEEP A BIGGER SLICE

Tax-advantaged accounts can shelter income-producing investments from current income taxation and result in greater longterm growth than taxable accounts. Actively managing your tax picture in retirement may help you keep even more of your taxdeferred wealth.

Source: J.P. Morgan Asset Management. Assumes \$5,500 after-tax contributions at the beginning of each year for 30 years and 6.0% annual investment return that is assumed to be subject to ordinary income taxes (capital gains and qualified dividends are not considered in this analysis). Tax-deferred account balance is taken as lump sum and taxed at the 12%, 24% and 35% federal tax rate, respectively, at time of withdrawal. Taxable account contributions are after tax and assume a 35% federal tax rate during accumulation. This hypothetical illustration is not indicative of any specific investment and does not reflect the impact of fees or expenses. This chart is show n for illustrative purposes only. Past performance is no guarantee of future results.



Rising annual health care costs in retirement



Traditional Medicare estimated median health care costs per person

A GROWING CONCERN

30

Given variation in health care cost inflation from year to year, it may be prudent to assume an annual health care inflation rate of 6.5%, which may require growth as well as current income from your portfolio in retirement.

2018 additional premium per person for Modified Adjusted Gross Incomes (MAGI) of:

| FILING SINGLE | MARRIED FILING JOINTLY | ADDITIONAL PREMIUM | TOTAL MEDIAN COSTS |
|----------------------|------------------------|--------------------|--------------------|
| \$85,001 - \$107,000 | \$170,001-\$214,000 | \$798 | \$6,008 |
| 107,001 – 133,500 | 214,001 - 267,000 | 2,010 | 7,220 |
| 133,501 - 160,000 | 267,001 - 320,000 | 3,222 | 8,432 |
| >160,000 | >320,000 | 4,433 | 9,643 |

Notes: Age 85 estimated total median cost in 2018 is \$7,097. Medigap premiums usually increase due to age, in addition to annual inflation, except for most policies in the follow ing states: AR, CT, MA, ME, MN, NY, VT WA, AZ, FL, ID and MO. Analysis includes the most comprehensive and expensive plan available in each state.

Parts B and D additional premiums are calculated from federal tax returns two years prior; individuals may file for an exception on form SSA-44 if they reduce or stop w ork. For the definition of MAGI, please see slide 41.

Source: Employee Benefit Research Institute (EBRI) data as of December 31, 2017; SelectQuote data as of January 18, 2018; Centers for Medicare and Medicaid Services website, January 22, 2018; CMS Annual Release of Part D National Average Bid Amount, July 31, 2017; 2017 Medicare Trustees Report, July 13, 2017; Consumer Expenditure Survey data as of December 31, 2017; J.P. Morgan analysis.



Projected Medicare cost growth

Long-term projected average annual Medicare cost increases for individuals

6.5%
0.7%
0.9%
0.7%
0.7%
Increased use of prescriptions, vision, dental and hearing services
Medigap premium increases due to age thresholds
Inflation Medicare premiums and related out-of-pocket costs



Note: Excludes government costs. National w eighted average by state population used to estimate Medigap age-related premium increases; these w ill vary by geography. Medigap premiums usually increase due to age, in addition to annual inflation, except for most policies in the follow ing states, which are community rated (all ages experience the same rates): AR, CT, MA, ME, MN, NY, VT, WA, and the states that are mostly issue-age rated (rates are the same for all w ho first purchased at a particular age): AZ, FL, GA, ID, MO and NH. Analysis includes the most comprehensive Medigap plan available in each state.

Source: Employee Benefit Research Institute (EBRI) data as of December 31, 2017; SelectQuote data as of January 18, 2018; Centers for Medicare and Medicaid Services website, January 22, 2018; CMS Annual Release of Part D National Average Bid Amount, July 31, 2017; 2017 Medicare Trustees Report, July 13, 2017; Consumer Expenditure Survey data as of December 31, 2017; J.P. Morgan analysis.



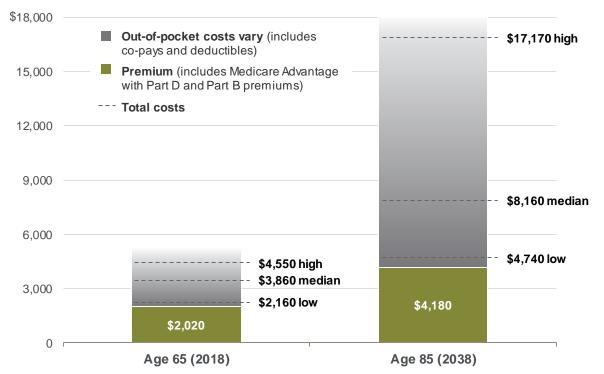
31

When planning for Medicare costs in retirement, consider using:

- 4.2% until you start Medicare at age 65 to account for annual cost increases
- 6.5% at age 65 and older to also adjust for increases related to age and uncertainties

Estimated Medicare Advantage with Part D and out-of-pocket expenses

Annual amount per person



DRAMATIC DIFFERENCES IN COSTS DEPENDING ON HEALTH

Be prepared to pay more for health care in the event you experience a health issue, which becomes more common as one ages.

- Be aware: Although Medicare Advantage plans have out-ofpocket caps, those limits do not include prescriptions
- Consider maintaining an emergency reserve fund for high out-of-pocket cost years

Total costs = annual premium + out-of-pocket costs for those with relatively low costs (those in the low est third of the cost distribution), median costs and high costs (those in the highest third of the cost distribution).

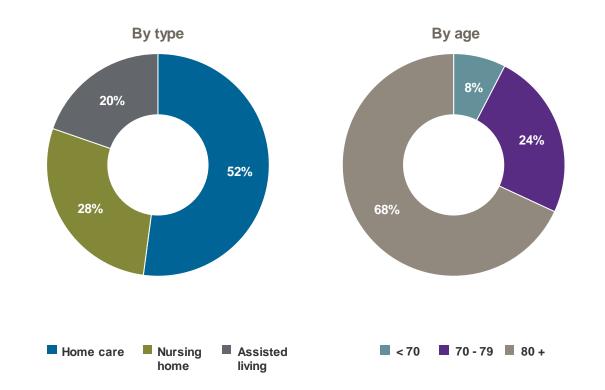
Age 85 estimated median cost in 2018 is \$4,617. Cost estimates above show age 85 in 2038 adjusted for inflation and increased use of medical care at older ages. Since plans are sold by private companies, premiums will vary based on plan characteristics. Out-of-pocket expenses, including out-of-pocket prescription costs, will vary by plan and include co-pays and deductibles. Those with high incomes pay higher premiums (above \$85,000 single or \$170,000 filing jointly).

Source: Employee Benefit Research Institute (EBRI) data as of December 31, 2017; SelectQuote data as of January 18, 2018; 2017 Medicare Trustees Report, July 13, 2017; J.P. Morgan analysis.



Long-term care considerations

New long-term care insurance claims



LONG-TERM CARE: NOT JUST NURSING HOMES

33

Many individuals will need long-term care, which often starts with home care and may progress to assisted living or care in a nursing home.

While the majority had care needs at age 80 or older, nearly one-third experienced a care need before then.

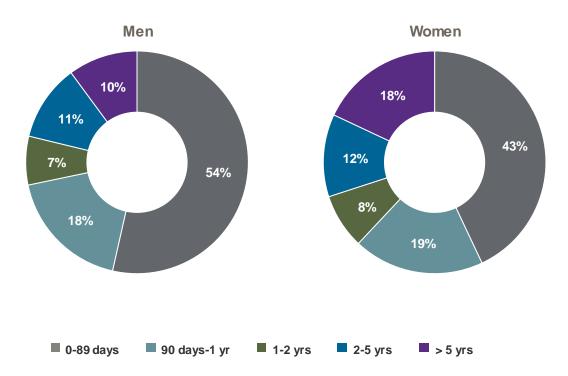
Source (charts): American Long-TermCare Association for Long-TermCare Insurance, 2015 LTC Sourcebook.

Annualized historical inflation for nursing home (private room): 3.8%; assisted living (one-bedroom): 2.6%; home health aide: 2.5%. 5-year CAGR represents the compound annual grow th rate based on Genw orth Cost of Care Survey. Source for cost of care inflation information: Genw orth 2017 Cost of Care Survey, conducted by CareScout®, June 2017. © 2017 Genw orth Financial, Inc. All rights reserved. Methodology document for inflation information: https://www.genw.orth.com/dam/Americas/US/PDFs/Consumer/corporate/cost-of-care/131168_081417.pdf



Long-term care planning

Projected lifetime need for significant long-term care for individuals at age 65¹



HOW LONG MIGHT YOU **NEED CARE?**

34

Average care needs don't tell the whole story since some individuals won't need care, some have a short-term need and others will need significant care for more than 5 years.

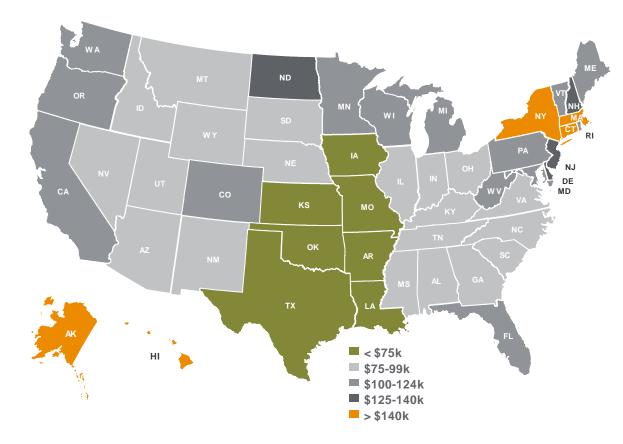
¹ Significant long-term care needs include requiring assistance with at least 2 or more activities of daily living that are expected to last at least 90 days or the need for substantial supervision for health and safety threats due to severe cognitive impairment. Activities of daily living include eating, dressing, bathing, transferring and toileting. Those who meet the cognitive impairment criteria who require care for less than 90 days are included in the 90 days – 1 year category above.

Not included: non-acute care for rehabilitation; less severe impairment such as requiring assistance with 1 activity of daily living; needing assistance with incidental activities of daily living such as shopping, cooking, taking medication, using transportation and paying bills.



Source: U.S. Department of Health and Human Services, ASPE Issue Brief, Revised February 2016, Table 1.

Median annual cost of nursing home care (private room)



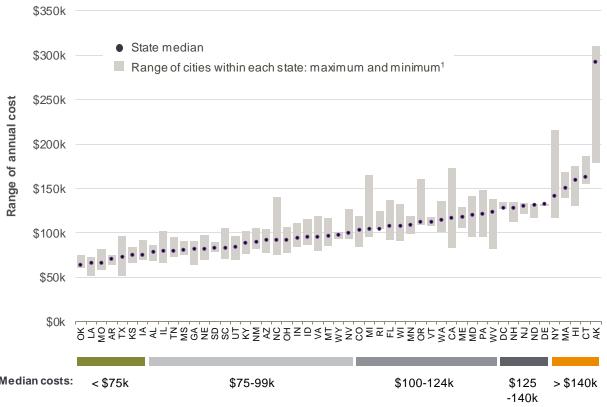
THE COST OF CARE

There can be significant variations in cost depending on where care is utilized.



Range of annual nursing home costs

© 2017 Genw orth Financial, Inc. All rights reserved.



THE COST OF CARE

Cost of care will depend on state, city and the facility chosen.

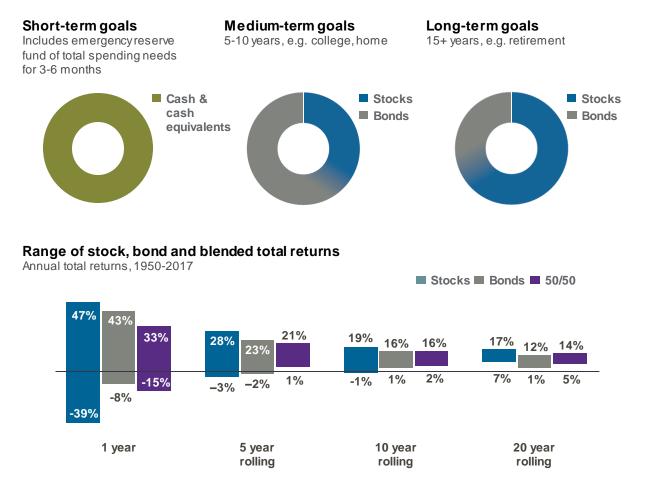
Median costs: ¹ The range is representative of the maximum and minimum average costs by surveyed city within each state. Data is limited to the availability of the surveyed cities so every city within each state may not be represented.

Methodology document: https://www.genworth.com/dam/Americas/US/PDFs/Consumer/corporate/cost-of-care/48590_081417.pdf For more information on cost of care from Genw orth see: https://www.genw.orth.com/about-us/industry-expertise/cost-of-care.html Source: Genw orth 2017 Cost of Care Survey, conducted by CareScout®, June 2017. Annual median costs based on 365 days of care.



36

Goals-based wealth management



DIVIDE AND CONQUER

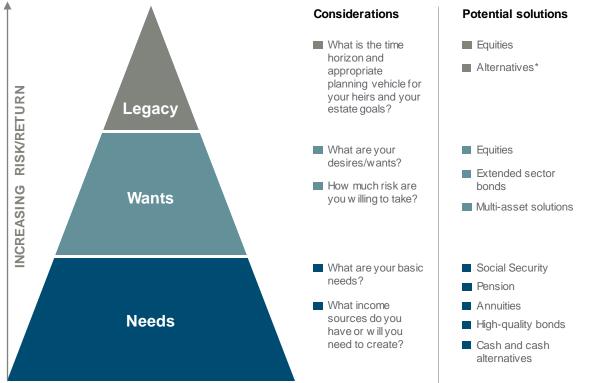
Aligning your investment strategy by goal can help you take different levels of risk based on varying time horizons and make sure you are saving enough to accomplish all of your goals—not just the ones that occur first.

Source (top chart): J.P. Morgan Asset Management.

Source (bottom chart): Barclays Capital, FactSet, Federal Reserve, Robert Shiller, Strategas/Ibbotson, J.P. Morgan Asset Management. Returns show n are based on calendar year returns from 1950 to 2017. Stocks represent the S&P 500 Shiller Composite and Bonds represent Stategas/Ibbotson for periods from 1950 to 2010 and Barclays Aggregate thereafter.

Note: Portfolio allocations are hypothetical and are for illustrative purposes only. They were created to illustrate different risk/return profiles and are not meant to represent actual asset allocation.

Structuring a portfolio to match investor goals in retirement



BUILDING YOUR PLAN

38

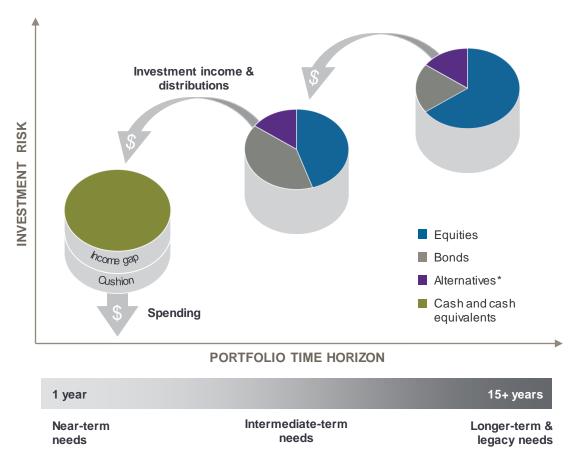
It may be useful to match dependable income sources with fixed retirement expenses, while coordinating other investments with more discretionary expenses.

For illustrative purposes only. Source: J.P. Morgan Asset Management. Bonds are subject to interest rate risks. Bond prices generally fall when interest rates rise. The price of equity securities may rise or fall because of changes in the broad market or changes in a company's financial condition, sometimes rapidly or unpredictably. Equity securities are subject to "stock market risk," meaning that stock prices in general may decline over short or extended periods of time. Investing in alternative assets involves higher risks than traditional investments and is suitable only for the long term. They are not tax efficient and have higher fees than traditional investments. They may also be highly leveraged and engage in speculative investment techniques, which can magnify the potential for investment loss or gain.

*Equity, fixed income and cash are considered "traditional" asset classes. The term "alternative" describes all non-traditional asset classes. They include private and public equity, venture capital, hedge funds, real estate, commodities, distressed debt and more.



Structuring a portfolio in retirement: The bucket strategy



TIME-BASED SEGMENTATION

Aligning your time horizon with an investment approach may help you be more comfortable with maintaining diversified portfolio allocations in retirement.

For the near-term portfolio, consider maintaining:

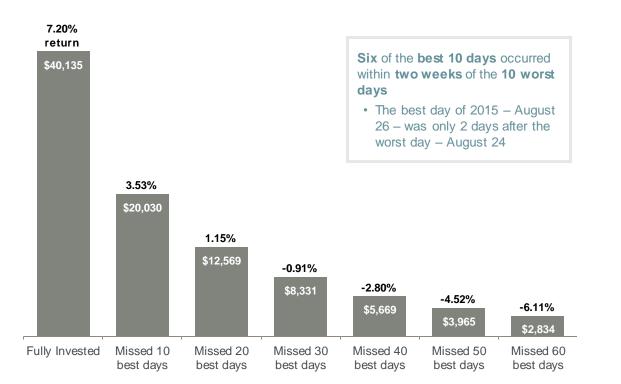
- Funds to cover 1-3 years worth of the gap between your income and spending needs
- A cushion for unexpected expenses

For illustrative purposes only. Source: J.P. Morgan Asset Management. Bonds are subject to interest rate risks. Bond prices generally fall when interest rates rise. The price of equity securities may rise or fall because of changes in the broad market or changes in a company's financial condition, sometimes rapidly or unpredictably. Equity securities are subject to "stock market risk," meaning that stock prices in general may decline over short or extended periods of time. Investing in alternative assets involves higher risks than traditional investments and is suitable only for the long term. They are not tax efficient and have higher fees than traditional investments. They may also be highly leveraged and engage in speculative investment techniques, which can magnify the potential for investment loss or gain.

*Equity, fixed income and cash are considered "traditional" asset classes. The term "alternative" describes all non-traditional asset classes. They include private and public equity, venture capital, hedge funds, real estate, commodities, distressed debt and more.

Returns of the S&P 500

Performance of a \$10,000 investment between January 1, 1998 and December 29, 2017



Source: J.P. Morgan Asset Management analysis using data from Bloomberg. Returns are based on the S&P 500 Total Return Index, an unmanaged, capitalization-weighted index that measures the performance of 500 large capitalization domestic stocks representing all major industries. Indices do not include fees or operating expenses and are not available for actual investment. The hypothetical performance calculations are show n for illustrative purposes only and are not meant to be representative of actual results while investing over the time periods show n. The hypothetical performance calculations for the respective strategies are shown gross of fees. If fees were included returns would be low er. Hypothetical performance returns reflect the reinvestment of all dividends. The hypothetical performance results have certain inherent limitations. Unlike an actual performance record, they do not reflect actual trading, liquidity constraints, fees and other costs. Also, since the trades have not actually been executed, the results may have under- or overcompensated for the impact of certain market factors such as lack of liquidity. Simulated trading programs in general are also subject to the fact that they are designed with the benefit of hindsight. Returns will fluctuate and an investment upon redemption may be worth more or less than its original value. Past performance is not indicative of future returns. An individual cannot invest directly in an index. Data as of December 29, 2017.



PLAN TO STAY

Trying to time the market

is extremely difficult to

do. Market lows often

Investing for the long

term while managing volatility can result in a

result in emotional

decision making.

better retirement

outcome.

A closer look at tax rates—2018

Federal income tax rates applicable to taxable income

| Tax rate | Single filers | Married filing jointly | Capital gains & dividends | Medicare tax on earned income | Medicare tax on investment income | Limits to itemized deductions | |
|----------|---------------------|------------------------|---|--|--|---|---|
| 10% | Up to \$9,525 | Up to \$19,050 | 0% [up to \$38,600 (single) / \$77,200 (married)] 15% [up to \$425,800 (single) / \$479,000 (married)] | | | -Medical expenses greater | |
| 12% | \$9,525-\$38,700 | \$19,050-\$77,400 | | (single) / \$77,200 | 2.90% (includes 1.45% employ er | | than 7.5% of AGI deductible**-SALT (state and local taxes) |
| 22% | \$38,700-\$82,500 | \$77,400-\$165,000 | | portion and 1.45% employ ee | 0% 3.80% (additional tax will be levied on lesser | deduction capped at \$10,000 -Mortgage interest deduction limited to primary/secondary | |
| 24% | \$82,500-\$157,500 | \$165,000-\$315,000 | | [up to \$425,800 | | | |
| 32% | \$157,500-\$200,000 | \$315,000-\$400,000 | | | | homes with up to \$750,000 debt; no deduction for home | |
| 35% | \$200,000-\$500,000 | \$400,000-\$600,000 | 20% | 3.80% (includes 2.90% tax | | equity debt | |
| 37% | \$500,000 or more | \$600,000 or more | | referenced abov e plus additional 0.90% tax for earned income abov e MAGI* \$200,000/\$250,000 threshold) | of i) net investment income or ii) excess MAGI above \$200,000/\$250,000 thresholds) | Cash charitable gifts deductible up to 60% of AGI -Misc. expenses subject to 2% AGI floor repealed | |

The personal exemption has been repealed and individual tax rates and personal deductions sunset after 2025 as per the TCJA 2017.

*Modified adjusted gross income (MAGI) is AGI plus amount excluded from income as foreign earned income, taxexempt interest and Social Security benefit. **For tax years 2017/2018.

Top/tax rates for ordinary income, capital gains and dividend income

| Type of gain | Maxim um rate | Alternative minimum tax (AMT) exemption** | | |
|---|---------------|---|-----------|---------------------------|
| Top rate for ordinary income & non-qualified dividends | 37%/40.8%* | Filing status | Exemption | Exemption phase-out range |
| Short-term capital gains (assets held 12 months or less) | 37%/40.8%* | Single/Head of Household | \$70,300 | \$500,000-\$781,200 |
| Long-term capital gains (assets held more than 12 months) & qualified dividends | 20%/23.8%* | Married filing jointly | \$109,400 | \$1,000,000-\$1,437,600 |

*Includes top tax rate plus 3.8% Medicare tax on net investment income beyond MAGI threshold.

** The exemption amount is reduced .25 for every \$1 of AMTI (income) above the threshold amount for the taxpayer's filing status.

Federal estate, generation-skipping transfer (GST) tax & gift tax exemption

| Top federal estate tax rate | 40% |
|--|--|
| Federal estate, GST & gift tax exemption | \$11.21 million per individual/\$22.42 million per couple* |
| Annual gift tax exclusion | \$15,000 (\$30,000 per couple) |

*Increased levels expire after 2025. Exact exemption amount to be confirmed by IRS.

The presenter of this slide is not a tax or legal advisor. This slide is for informational purposes only and should not be relied on as tax or legal advice. Clients should consult their tax or legal advisor before making any tax- or legal-related investment decisions.



Reference

Traditional IRAs vs. Roth IRAs-2017/2018

| | Traditional IRA | Roth IRA | Roth IRA conversion | |
|---|---|---|--|--|
| Maximum contribution | \$5,500 (earned income) \$6,500 (age 50 and over)¹ Reduced by Roth IRA contributions | \$5,500 (earned income) \$6,500 (age 50 and over)¹ Reduced by Traditional IRA contributions | No limit on conversions of Traditional IRAs, SEP IRAs, SIMPLE IRAs (if open 2+ years) | |
| Age limits to contribute | Under 701/2 in the year of contribution | None | None | |
| Incomephase- out ranges for contribution deductibility | 2017 Single: \$62,000-\$72,000 ² Married: \$99,000-\$119,000 ² 2018 Single: \$63,000-\$73,000 Married: \$101,000-\$121,000 | All contributions are non-deductible | NA | |
| Phase-out ranges for Roth contribution eligibility | NA | 2017 Single: \$118,000-\$133,000 Married: \$186,000-\$196,000 2018 Single: \$120,000-\$135,000 Married: \$189,000-\$199,000 | NA | |
| Federal tax treatment | Investment grow th is tax deferred and contributions may be tax deductible. Deductible contributions and investment gains are taxed as ordinary income upon w ithdrawal. If non-deductible contributions have been made, each w ithdrawal is taxed proportionately on a pro-rata basis, taking into consideration all contributions made to all Traditional IRAs ow ned. | Taxes are due upon conversion of account balances not yet taxed. Qualified w ithdrawals of contributions at any time are tax free and IRS penalty free; converted amounts may be w ithdrawn tax free.³ Qualified w ithdrawals of earnings are tax free and IRS penalty free if taken after five years have passed since the account w as initially funded and the account ow ner is age 59½ or older (other exceptions may be applicable). Multiple Roth IRAs are considered one Roth IRA for w ithdrawal purposes and distributions MUST be w ithdrawn in a specific order deemed by the IRS that applies regardless of w hich Roth IRA is used to take that distribution. | | |
| Early withdrawals | Early withdrawals before age 59½ are generally subject to a 10% IRS penalty unless certain exceptions apply. | | | |
| Mandatory withdrawals | Distributions must begin by April 1 of the calendar year follow ing the year the account ow ner turns age $70\frac{1}{2}$. | None for account owner | None for account owner | |
| Deadline to contribute | 2017: April 17, 2018 2018: April 15, 2019 | 2017: April 17, 2018 2018: April 15, 2019 | NA | |

¹ Must be age 50 or older by December 31 of the contribution year.

² Assumes participation in an employer's retirement plan. No income limits apply when investors and spouses are not covered by a retirement plan at w ork. Income limits based on MAGI. For the definition of MAGI, please see slide 41.

³ Distributions from a conversion amount must satisfy a five-year investment period to avoid the 10% penalty. This pertains only to the conversion amount that w as treated as income for tax purposes. The presenter of this slide is not a tax or legal advisor. Clients should consult a personal tax or legal advisor prior to making any tax- or legal-related investment decisions.



Retirement plan contribution and deferral limits—2017/2018

| Type of Retirement Account | Specifics | 2017 | 2018 |
|-----------------------------------|---|---|--|
| | 401(k) elective deferral limit/catch-up contribution (age 50 and over) | \$18,000/\$24,000 | \$18,500/\$24,500 |
| | Annual defined contribution limit | \$54,000 | \$55,000 |
| 401(k), 403(b), 457(b) | Annual compensation limit | \$270,000 | \$275,000 |
| | Highly compensated employees | \$120,000 | \$120,000 |
| | 403(b)/457 elective deferrals/catch-up contribution (age 50 and over) | \$18,000/\$24,000 | \$18,500/\$24,500 |
| SIMPLE IRA | SIMPLE employee deferrals/catch-up deferral (age 50 and over) ¹ | \$12,500/\$15,500 | \$12,500/\$15,500 |
| | Maximum contribution ² | \$54,000 | \$55,000 |
| SEP IRA | SEP minimum compensation | \$600 | \$600 |
| | SEP annual compensation limit | \$270,000 | \$275,000 |
| | Maximum contribution amount/over age 55 | Single:\$3,400/\$4,400 Family:\$6,750/\$7,750 | Single: \$3,450/\$4,450 Fam ily: \$6,850/\$7,850 ³ |
| Health Savings Accounts (HSAs) | Minimum deductible | Single: \$1,300 Family: \$2,600 | Single:\$1,350 Family:\$2,700 |
| | Maximum out-of-pocket expenses | Single: \$6,550 Family: \$13,100 | Single:\$ 6,550 Family:\$13,300 |
| | Wage base | \$127,200 | \$128,400 |
| Social Security | Maximum earnings test exempt amounts under FRA for entire calendar year/during year of FRA4 | \$1,410 p/month (\$16,920 p/year)/ \$3,740 p/month | \$1,420 p/month (\$17,040 p/year)/ \$3,780 p/month |
| | Maximum Social Security benefit at FRA | \$2,687 p/month | \$2,788 p/month |
| Defined benefit – Maximum anr | nual benefit at retirement | \$215,000 | \$220,000 |

¹ Employer may either match employee's salary reduction contributions dollar for dollar up to 3% of employee's compensation or make non-elective contributions equal to 2% of compensation up to \$275,000.

² Employer contributions may not exceed \$55,000 or 25% of compensation. Other rules apply for self-employed individuals.

³ Limit to be confirmed by IRS.

⁴ In calendar years before FRA, benefit reduced \$1 for every \$2 of earned income above the limit; during year of FRA, benefit reduced \$1 for every \$3 of earned income in months prior to FRA.



43

There are typically four options to consider when leaving an employer's retirement plan, each with its benefits and considerations. Converting a portion of tax-deferred assets to a Roth IRA may be a fifth option to consider in certain circumstances described below.

| Options | Potential benefits | Considerations |
|--|---|---|
| Roll the retirement account into an IRA account (IRA rollov er) (May also roll the Roth 401(k) portion of a retirement account into a Roth IRA) | No income taxes or penalties for a direct rollover¹ Assets maintain tax-deferred status Ability to make additional contributions subject to income limitations² Potential for a broader range of investment choices Opportunity to consolidate multiple retirement accounts If balance includes employer stock, may be eligible for preferable tax treatment (Net Unrealized Appreciation) if the stock is not rolled over³ | Loans are not allowed Fees may vary, and may be higher than what is charged in an employ er plan |
| Leave the money in former employer plan | Not a taxable event Assets maintain tax-deferred status If y ou are at least age 55 and are separated from service, you may be able to take withdrawals without penalties Fees may be lower depending on plan size | Investment options vary according to the plan and may be more limited Ability to leave assets in the plan as well as ongoing plan options are subject to policies and contractual terms of the plan Some plans may not provide periodic payments to retirees |
| Mov e the assets into a new employ er plan | No income taxes or penalties for a direct rollover¹ Assets maintain tax-deferred status New employ er plan may allow loans Ability to make additional contributions potentially with a company match Fees may be low based on plan and size of employ er (number of participants) | Investment options vary according to the plan and may be more limited Assets are subject to policies or terms of new employ er plan |
| Withdraw balance of assets or "cash out" of plan | Individual may use remaining funds (after taxes and potential penalties) for other purposes | Upon withdrawal, account balance is subject to ordinary income tax on pre-tax contributions and investment earnings 20% automatically withheld for taxes upon distribution Additional 10% withdrawal penalty tax may apply for owners y ounger than age 59½ Additional federal, state or local income taxes may apply Loss of tax-deferred growth of assets |
| Convert all or part of retirement account into Roth IRA (Roth IRA conversion) | May provide income tax diversification in retirement After taxes are paid at conversion, future distributions are tax free⁴ Required minimum distributions do not apply at 70½ | The pre-tax amount is included in gross income in the y ear of conversion (and is subject to the aggregation rule) Sufficient taxable assets to pay income taxes owed is strongly recommended |

- ¹ In a direct rollover, qualified retirement assets are transferred directly from the former employer plan to the institution holding the new IRA or plan account, and no taxes or penalties will apply. If an ow ner chooses to receive the plan assets first, the distribution is subject to 20% mandatory withholding and the entire amount of the distribution must be deposited into a new plan or IRA account within 60 days of receipt to avoid further potential taxes and penalties.
 - ² Subject to IRA contribution limits: \$5,500 in 2018 (\$6,500 if age 50 or older); single filers may make Roth contributions if MAGI is \$120,000 or below; married filing jointly if MAGI is \$189,000 or below; phase-outs on contributions thereafter.
 - ³ With the Net Unrealized Appreciation (NUA) strategy, an employee may transfer the employer stock portion of a retirement account to a brokerage account. The employee pays ordinary income tax on the cost basis of the stock at the time of transfer, but will ow e capital gains tax w hen he/she later sells the stock.



4 4 Subject to 5-year Roth account holding period and age requirements.

Reference

44

Principal: Individual who directs another to act for his/her own benefit | Agent: Individual appointed to fulfill specified directives of principal

APPOINTS OR INSTRUCTS TIMING Provides Provides Appoints an agent instruction to instructions for Appoints an agent to manage the daymanage the health managing and to manage the Powers/instructions Powers/instructions to-day affairs of the health care of the care of the transferring applicable during applicable at death principal principal principal principal's assets life of principal of principal General power of attorney (POA)¹ Durable power of Used in place of attornev¹ **General POA** Health care proxy Advance health \checkmark care directive / Living will² Review/update Will periodically Revocable trust³ Irrevocable trust⁴

¹ Terminates when the principal becomes incapacitated or unable to make decisions about finances and health, whereas Durable POA continues when principal becomes incapacitated. ² Principal provides written instructions in advance to ensure specific medical care in case he/she becomes incapacitated; many states combine the living will with durable pow er of attorney. Some states may not recognize heath care directive of another state. ³ Provides instructions in the event of principal's mental disability and to avoid probate of his/her assets; principal is the owner and beneficiary of the trust; the trust may be revoked at any time during life and becomes irrevocable at death.

Principal/grantor gifts assets to trust during life to remove from his/her estate, or at death, assets are moved to the trust. Trust becomes ow ner of assets and any future grow this removed from grantor's taxable estate.



J.P.Morgan

Asset Management

Medicare is a government health care program available to those who have paid Medicare taxes while working or to non-working spouses of such individuals. Medicare is available when these individuals reach age 65. Citizens who have never paid Medicare taxes may be eligible if they pay a Medicare premium. Individuals under age 65 may also be eligible if they are considered disabled by Social Security or the Railroad Retirement Board for more than 24 months.

| | Traditional Medicare | Medicare Advantage (usually limited to a network of providers) |
|--|----------------------|---|
| Part A: inpatient hospital insurance | \checkmark | \checkmark |
| Part B: doctors, tests and outpatient hospital insurance | \checkmark | \checkmark |
| Medigap: standardized plans that cover Part A and Part B co-pays and deductibles | \checkmark | Not available |
| Part D: prescription drug insurance | \checkmark | Most plans include Part D |
| Prescription drug co-pays and deductibles | Not covered | Not covered |
| Most vision, dental and hearing expenses | Not covered | Coverage varies by plan |
| Long-term care* | Not covered | Not covered |



46

Reference

65 and working: Should I sign up for Medicare?

START HERE Does your workplace employ20+ people?1 Do you contribute to a Health Savings Account (HSA)? Have you filed for Social Security benefits?

Sign up for Medicare¹

- Enroll in Parts A, B and D up to 3 months before your 65th birthday month to ensure no gap in coverage and no late enrollment penalties
- Decide on and enroll in Medigap or Medicare Advantage (most Medicare Advantage plans include Part D)

Consider signing up for Part A

- Part A is free for people who paid payroll taxes for 40+ quarters (about 10 years)
- Employer coverage is primary (check with plan administrator about any conflicts)

Consider not signing up for Medicare

- "Creditable" employer insurance benefit is primary (pays first)
- IRS tax penalties apply if you sign up for Medicare and also contribute to an HSA

Stop HSA contributions and consider opting out of Medicare Part B

- Once you start Social Security benefits, you will automatically be enrolled in Part A, retroactive six months back to age 65
- IRS tax penalties apply if you are enrolled in Part A and contribute to an HSA
- You may contact Medicare to opt out of Part B

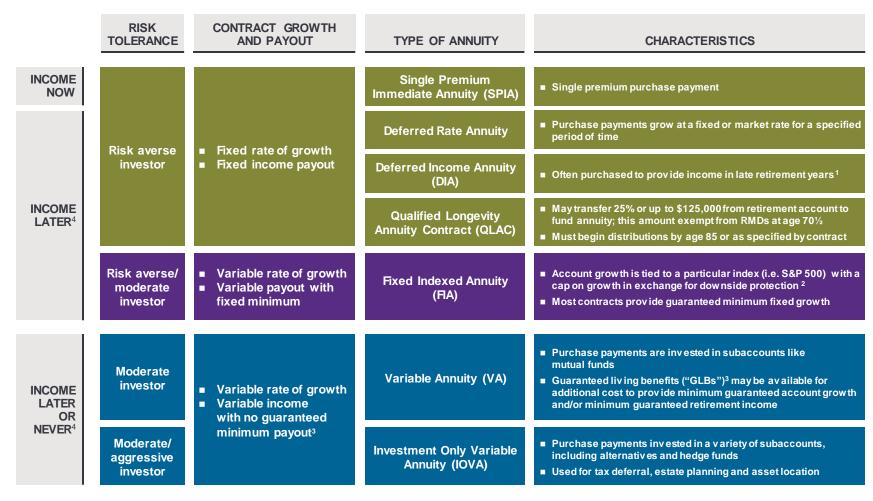
WHAT IF I HAVE COBRA OR RETIREE COVERAGE?

- You must sign up for Medicare when you are first eligible, or you will face late enrollment penalties for Part B and possible underwriting for Medigap if you sign up for these later.
- Most retiree coverage works with Medicare Parts A and B (check with your plan administrator).
- If your COBRA coverage (a temporary extension of your employer coverage) or retiree prescription plan will continue and is "creditable" (ask your plan administrator for documentation), you may choose to delay enrollment in Part D without penalty.



¹ Most employer coverage for <20 people will end at age 65 or become secondary after Medicare has paid. Late penalties will apply if you don't sign up in your initial enrollment window and Medigap plans may deny coverage or underwrite after the initial enrollment period. For more information see <u>www.mymedicarematters.org/enrollment/am-i-eligible</u>, sponsored by the National Council on Aging and Medicare.gov.

Understanding annuities: Which annuity may be right for you?



¹ DIAs are also know n as longevity annuities and purchased during healthy years to provide income in later years when illness, dementia or other disability may set in and hinder sound income planning decisions.

² Some contracts contain caps on grow th and limit gains attributable to account based on participation rate or other factors.

³ Guaranteed living benefits and death benefits may be available with certain fixed and variable annuity products at additional cost.

⁴ While non-qualified annuities are not generally subject to RMDs, state laws requiring contract annuitization may apply.



Reference

Unless otherwise indicated, all illustrations are shown in U.S. dollars.

Past performance is no guarantee of comparable future results.

Diversification does not guarantee investment returns and does not eliminate the risk of loss.

Indexes are unmanaged and an individual cannot invest directly in an index. Index returns do not include fees or expenses.

The **S&P 500 Index** is widely regarded as the best single gauge of the U.S. equities market.

This world-renowned index includes a representative sample of 500 leading companies in leading industries of the U.S. economy. Although the S&P 500 Index focuses on the large cap segment of the market, with approximately 75% coverage of U.S. equities, it is also an ideal proxy for the total market. An investor cannot invest directly in an index.

The **Barclays Capital U.S. Aggregate Index** represents securities that are SECregistered, taxable and dollar denominated. The index covers the U.S. investment-grade fixed rate bond market, with index components for government and corporate securities, mortgage pass-through securities and asset-backed securities. These major sectors are subdivided into more specific indexes that are calculated and reported on a regular basis.

Bonds are subject to interest rate risks. Bond prices generally fall when interest rates rise.

The price of **equity** securities may rise or fall because of changes in the broad market or changes in a company's financial condition, sometimes rapidly or unpredictably. These price movements may result from factors affecting individual companies, sectors or industries, or the securities market as a w hole, such as changes in economic or political conditions. Equity securities are subject to "stock market risk," meaning that stock prices in general may decline over short or extended periods of time.

Investing in **alternative as sets** involves higher risks than traditional investments and is suitable only for sophisticated investors. Alternative investments involve greater risks than traditional investments and should not be deemed a complete investment program. They are not tax efficient and an investor should consult with his/her tax advisor prior to investing. Alternative investments have higher fees than traditional investments and they may also be highly leveraged and engage in speculative investment techniques, which can magnify the potential for investment loss or gain. The value of the investment may fall as well as rise and investors may get back less than they invested. Opinions and estimates offered constitute our judgment and are subject to change without notice, as are statements of financial market trends, which are based on current market conditions. We believe the information provided here is reliable, but do not w arrant its accuracy or completeness. References to future returns are not promises or even estimates of actual returns a client portfolio may achieve.

This document is a general communication being provided for informational purposes only. It is educational in nature and not designed to be a recommendation for any specific investment product, strategy, plan feature or other purposes. By receiving this communication you agree with the intended purpose described above. Any examples used in this material are generic, hypothetical and for illustration purposes only. None of J.P. Morgan Asset Management, its affiliates or representatives is suggesting that the recipient or any other person take a specific course of action or any action at all. Communications such as this are not impartial and are provided in connection with the advertising and marketing of products and services. Prior to making any investment or financial decisions, you should seek individualized advice from your personal financial, legal, tax and other professional advisors that take into account all of the particular facts and circumstances of your own situation.

JPMorgan Distribution Services, Inc., member FINRA / SIPC.

J.P. Morgan Asset Management is the marketing name for the asset management businesses of JPMorgan Chase & Co. and its affiliates w orldwide.

Copyright © 2018 JPMorgan Chase & Co. All rights reserved.

JP-GTR | 0903c02a81c9c127

NOT FDIC INSURED. NO BANK GUARANTEE. MAY LOSE VALUE.



49