## RETIREMENT INSIGHTS

## Guide to Retirement ${ }^{\text {sw }}$

## 2020 Edition



Asset Management

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## A SOUND RETIREMENT <br> 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.

Revisit your plan: changes as a result of the SECURE Act may require action.

## Individuals

- Eliminates stretch IRA option for most nonspouse beneficiaries - full withdrawal required within 10 years of account owner's death
- Increase in the Required Minimum Distribution starting age to age $72^{1}$
- Penalty-free withdrawals for birth or adoption ( $\$ 5,000$ per person, within one year of birth or finalized adoption) ${ }^{2}$
- Eliminates age cap on traditional IRA contributions (earned income required)



## Small Business Owners ( $\leq 100$ Employees)

- Tax Credits to establish a qualified retirement plan, SEP or SIMPLE plan (up to $\$ 5,000$ )
- Tax Credits to add auto escalation to a $401(\mathrm{k})$ or SIMPLE IRA plan (\$500 per year for three years)

- Fiduciary safe harbor for selecting insurer to provide lifetime income
- Portability of lifetime income options
- Increase in the automatic escalation cap in the automatic enrollment safe harbor from $10 \%$ to $15 \%$ for $401(\mathrm{k})$ plans
- Simplification of the rules for non-elective safe harbor 401(k) plans


## After 2020

- Open Multiple Employer Plans (MEPs): permits a "pooled plan provider" to offer a "pooled employer plan" (defined contribution) to unrelated employers
- Lifetime income disclosure required on participant statements ${ }^{3}$
- Enables $401(\mathrm{k})$ participation by long-term parttime employees ${ }^{4}$


## HIGHLIGHTS

The SECURE Act included several provisions intended to increase access to an employer-provided retirement plan and savings rates as well as access to lifetime retirement income (i.e., protected income).

Certain changes such as the elimination of the stretch IRA and the increase in the required minimum distribution starting age should be carefully considered and may require you to update your retirement and estate plans.

## Life expectancy probabilities

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 endpoint. 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.

Percent of people in the civilian labor force 1998-2028


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 2018 and projection to 2028. Civilian population age 65+ is non-institutionalized population.

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## Managing expectations of ability to work

Expectations of workers vs. retirees
To retire at age 65 or older


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.

## Changes in lifestyle

Amount of daily hours spent per activity by age


## Levels of happiness and stress by age



## SPEND TIME PLANNING

 YOUR TIMERetirement offers the gift of time to do the things that matter most to you. While our happiest years may be in retirement, the transition isn't always a walk on the beach. Knowing what activities and social connections are fulfilling prior to retiring can ease the stress often associated with this new life stage.

[^0]

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. The Social Security Amendments Act of 1983 increased FRA from 65 to 67 over a 40-year period. The first phase of transition increased FRA from 65 to 66 for individuals turning 62 between 2000 and 2005. After an 11-year hiatus, the transition from 66 to 67 (20172022) will complete the move.

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

Asset Management

## Maximizing Social Security benefits - average earner

Cumulative individual maximum benefit by claim age
Full Retirement Age (FRA) = Age 66 \& 8 months


| Age | 62 | 66 | 70 | 76 | 80 | 90 |
| ---: | :---: | :---: | :---: | :---: | :---: | :---: |

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 1958, earns $\$ 70 \mathrm{k}$ in the year before retirement, retires at the end of age 61 and claims at 62 \& 1 month, 66 \& 8 months and 70, respectively. Benefits are assumed to increase each year based on the Social Security Administration 2019 Trustee's Report "intermediate" estimates (annual benefit increase of 2.6\%). Monthly amounts with the cost of living adjustments (not shown on the chart) are: $\$ 1,873$ at age $62 ; \$ 2,898$ at FRA; and $\$ 4,068$ at age 70 . Exact breakeven ages are 76 \& 6 months and $80 \& 5$ months.

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Cumulative individual maximum benefit by claim age
Full Retirement Age (FRA) = Age 66 \& 8 months


Claim at FRA:
\$3,142 per month


Claim at 62:
\$2,252 per month

Age 62 $2 \quad 66$ 66 $\cdot$ 70 . $\square-$

76 $\square 8$ 0 $\longrightarrow \rightarrow$ 90

| Age | 62 | 66 | 70 | 80 | 90 |
| ---: | :---: | :---: | :---: | :---: | :---: | :---: |

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 1958, earns the maximum wage base each year, retires at the end of age 61 and claims at 62 \& 1 month, 66 \& 8 months and 70 , respectively. Benefits are assumed to increase each year based on the Social Security Administration 2019 Trustee's Report "intermediate" estimates (annual benefit increase of 2.6\%). Monthly amounts with the cost of living adjustments (not shown on the chart) are: $\$ 2,252$ at age $62 ; \$ 3,485$ at FRA; and $\$ 4,891$ at age 70 . Exact breakeven ages are 76 \& 5 months and $80 \& 5$ months.

## PLANNING <br> 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.

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


## 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 \& 8 months) and age 70.
- Example: For an individual with a consistent expected rate of return of $5 \%$ net of fees and average expected female longevity (age 86) = Claim at age 70.

[^1]
## 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.

|  | \$30,000 | \$40,000 | \$50,000 | \$60,000 | \$70,000 | \$80,000 | \$90,000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { Current } \\ & \text { age } \end{aligned}$ | Checkpoint (x current household income) |  |  |  |  |  |  |
| 25 | 0.4 | 0.4 | 0.5 | 0.6 | 0.8 | 0.9 | 1.1 |
| 30 | 0.7 | 0.8 | 0.9 | 1.0 | 1.2 | 1.4 | 1.5 |
| 35 | 1.1 | 1.2 | 1.3 | 1.5 | 1.7 | 2.0 | 2.1 |
| 40 | 1.6 | 1.8 | 1.9 | 2.0 | 2.4 | 2.6 | 2.9 |
| 45 | 2.2 | 2.4 | 2.5 | 2.7 | 3.1 | 3.5 | 3.7 |
| 50 | 3.0 | 3.2 | 3.3 | 3.6 | 4.1 | 4.5 | 4.8 |
| 55 | 3.9 | 4.1 | 4.3 | 4.6 | 5.2 | 5.7 | 6.1 |
| 60 | 4.9 | 5.2 | 5.5 | 5.8 | 6.6 | 7.2 | 7.6 |
| 65 | 6.4 | 6.8 | 7.0 | 7.5 | 8.4 | 9.1 | 9.7 |

## How to use:

- This analysis assumes you would like to maintain an equivalent lifestyle in retirement.
- Household income is assumed to be gross income (before taxes 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 5\% going forward.
- Example: For a 40-year-old with a household income of \$50,000: \$50,000 x $1.9=\$ 95,000$

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 (2013-2016); Social Security benefits using modified scaled earnings in 2019 for a single wage 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

Annual gross savings rate: 5\%*

Pre-retirement investment return: 6.0\%

Post-retirement investment return: 5.0\%

Inflation rate: 2.0\%

Retirement age -

- Primary earner: 65
- Spouse: 62

Years in retirement: 30
*5\% is approximately the U.S. average annual savings rate

|  | \$100,000 | 125,000 | \$150,000 | \$175,000 | \$200,000 | \$250,000 | \$300,000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Current age | Checkpoint (x current household income) |  |  |  |  |  |  |
| 25 | 0.2 | 0.3 | 0.5 | 0.7 | 0.8 | 1.0 | 1.2 |
| 30 | 0.7 | 0.9 | 1.2 | 1.4 | 1.5 | 1.8 | 2.0 |
| 35 | 1.4 | 1.6 | 1.9 | 2.2 | 2.4 | 2.7 | 2.9 |
| 40 | 2.2 | 2.5 | 2.9 | 3.2 | 3.4 | 3.8 | 4.1 |
| 45 | 3.2 | 3.6 | 4.0 | 4.4 | 4.7 | 5.2 | 5.4 |
| 50 | 4.4 | 4.8 | 5.4 | 5.9 | 6.2 | 6.8 | 7.1 |
| 55 | 5.9 | 6.4 | 7.1 | 7.7 | 8.1 | 8.7 | 9.2 |
| 60 | 7.7 | 8.3 | 9.1 | 9.8 | 10.3 | 11.1 | 11.7 |
| 65 | 10.1 | 10.8 | 11.8 | 12.7 | 13.3 | 14.3 | 14.9 |

## How to use:

- This analysis assumes you would like to maintain an equivalent lifestyle in retirement.
- Household income is assumed to be gross income (before taxes 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 $2.2=\$ 220,000$.

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 (2013-2016); Social Security benefits using modified scaled earnings in 2019 for a single wage earner at age 65 and a spousal benefit at age 62 reduced by Medicare Part B premiums. For more details, see slide 15 .
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## MODEL ASSUMPTIONS

Annual gross savings rate: 10\%*

Pre-retirement investment return: 6.0\%

Post-retirement investment return: 5.0\%

Inflation rate: 2.0\%

Retirement age -

- Primary earner: 65
- Spouse: 62

Years in retirement: 30
*10\% is approximately twice the U.S. average annual savings rate

## Replacement rate detail by household income



[^2]|  | $\mathbf{\$ 3 0 , 0 0 0}$ | $\mathbf{\$ 4 0 , 0 0 0}$ | $\mathbf{\$ 5 0 , 0 0 0}$ | $\mathbf{\$ 6 0 , 0 0 0}$ | $\mathbf{\$ 7 0 , 0 0 0}$ | $\mathbf{\$ 8 0 , 0 0 0}$ | $\mathbf{\$ 9 0 , 0 0 0}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start saving <br> age | Savings rate ( $\mathbf{x}$ current household income) |  |  |  |  |  |  |
| $\mathbf{2 5}$ | $7 \%$ | $7 \%$ | $8 \%$ | $8 \%$ | $9 \%$ | $10 \%$ | $10 \%$ |
| $\mathbf{3 0}$ | $9 \%$ | $9 \%$ | $10 \%$ | $10 \%$ | $12 \%$ | $13 \%$ | $13 \%$ |
| $\mathbf{3 5}$ | $12 \%$ | $12 \%$ | $13 \%$ | $13 \%$ | $15 \%$ | $16 \%$ | $18 \%$ |
| $\mathbf{4 0}$ | $15 \%$ | $16 \%$ | $17 \%$ | $18 \%$ | $20 \%$ | $22 \%$ | $24 \%$ |
| $\mathbf{4 5}$ | $22 \%$ | $23 \%$ | $24 \%$ | $25 \%$ | $28 \%$ | $31 \%$ | $33 \%$ |
| $\mathbf{5 0}$ | $32 \%$ | $34 \%$ | $35 \%$ | $38 \%$ | $42 \%$ | $46 \%$ | $49 \%$ |

## 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 forward if you have $\$ 0$ saved for retirement today.
- Example: A 40-year-old with household income of \$50,000 and \$0 saved for retirement today may need to save $17 \%$ 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 taxes and savings)

[^3]|  | $\$ 100,000$ | $\$ 125, \mathbf{0 0 0}$ | $\mathbf{\$ 1 5 0 , 0 0 0}$ | $\mathbf{\$ 1 7 5 , 0 0 0}$ | $\mathbf{\$ 2 0 0 , 0 0 0}$ | $\mathbf{\$ 2 5 0 , 0 0 0}$ | $\mathbf{\$ 3 0 0 , 0 0 0}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start saving <br> age |  |  |  |  |  |  |  |
| $\mathbf{2 5}$ | $11 \%$ | $12 \%$ | $13 \%$ | $14 \%$ | $14 \%$ | $15 \%$ | $16 \%$ |
| $\mathbf{3 0}$ | $14 \%$ | $15 \%$ | $16 \%$ | $18 \%$ | $18 \%$ | $20 \%$ | $21 \%$ |
| $\mathbf{3 5}$ | $18 \%$ | $20 \%$ | $21 \%$ | $23 \%$ | $24 \%$ | $26 \%$ | $27 \%$ |
| $\mathbf{4 0}$ | $24 \%$ | $26 \%$ | $29 \%$ | $31 \%$ | $32 \%$ | $35 \%$ | $36 \%$ |
| $\mathbf{4 5}$ | $34 \%$ | $37 \%$ | $40 \%$ | $43 \%$ | $45 \%$ | $48 \%$ | $51 \%$ |
| $\mathbf{5 0}$ | $51 \%$ | $54 \%$ | $59 \%$ | $64 \%$ | $67 \%$ | $72 \%$ | $75 \%$ |

## 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 forward 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 may need to save $24 \%$ 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 taxes and savings)

[^4]Account growth of $\$ 200$ invested/saved monthly

## SAVING <br> 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.

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 is the increasing value of assets due to investment return earned on both principal and prior investment gains.
J.P.Morgan

Asset Management

## Changes in lifetime taxable income Hypothetical wage curve



## TAX DIVERSIFICATION

Managing taxes over a lifetime requires a balance of your current and future tax pictures. Make income tax diversification a priority to have more flexibility and control in retirement.

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.
[^5]Health Savings Account (HSA) savings are triple tax advantaged ${ }^{1}$ Maximum annual family contributions, $6 \%$ return and $24 \%$ marginal tax rate


## MAKE THE MOST OF IT

If you are enrolled in a qualified high-deductible health plan and are eligible to contribute to a Health Savings Account, be sure to open and fund your HSA.

Investing your HSA contributions for the long term and paying for current health care expenses out of income or short-term savings can provide significant tax-free funds for health care expenses in retirement.

[^6]
## Changes in spending

Average household spending patterns by various age groups
For those with a bachelor's degree or higher


## 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.

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.
*There are no individual inflation measures for these specific subcategories.
Source (top chart): BLS, 2016-2018 average 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 2019 with the exception of entertainment and education, which date back to 1993, and travel, which dates back to 2001 The inflation rate for the Other category is derived from personal care products and tobacco. Tobacco has experienced $7 \%$ inflation since 1986.

40/60 portfolio at various initial withdrawal rates Various portfolios at 4\% initial withdrawal rate Projected nominal outcomes, $50^{\text {th }}$ percentile


Projected nominal outcomes, $50^{\text {th }}$ percentile


## ONE SIZE DOES NOT

 FIT ALLHigher initial withdrawal rates or overly conservative portfolios can put your 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

Ending value of the 4\% initial withdrawal rate and 40/60 portfolio value is $\$ 752,999$ ( $\$ 415,709$ in today's dollars) and the 20/80 portfolio value is $\$ 343,022$ ( $\$ 189,373$ in today's dollars).
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 All Country World Equity, US Aggregate Bonds and US Cash, with compound returns projected to be $6.5 \%, 3.1 \%$ and $1.9 \%$, 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 (2.0\%). 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.

40/60 portfolio at various initial withdrawal rates Projected nominal outcomes, $50^{\text {th }}$ percentile


Historical ending wealth at 4\% initial withdrawal rate
63 rolling 30 -year periods


## GOOD IN THEORY, POOR IN PRACTICE

The 4\% rule is the maximum initial withdrawal percentage that has a high likelihood of not running out of money after 30 years. It is not guidance on how to efficiently use your wealth to support your retirement lifestyle as illustrated by the range of outcomes observed in the past.

[^7]
## Dollar cost ravaging - timing risk of withdrawals

Portfolio value over time (1966-1995)


Rate of return: average vs. actual (1966-1995)
$\rightarrow$ Assumed annual rate of return: 8\%
40/60 portfolio: Actual average annual return: $9.1 \%$


## SEQUENCE OF RETURN RISK

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

[^8]
## Mitigating dollar cost ravaging - dynamic spending



Rate of return: 40\% equity/60\% bond portfolio (1966-1995)


## BE FLEXIBLE

Spending the same amount in retirement grown by inflation regardless of how your portfolio is performing can result in an unsuccessful outcome. Consider adjusting your spending strategy based on market conditions to help make your money last and provide more total spending through your retirement years.

[^9] return of an index. Past performance does not guarantee future results.

2020 Marketplace ${ }^{1}$ plan monthly cost estimate for one person: non-smoker, age 64


## Bronze Plan

(Covers about $60 \%$ of costs for all enrollees in a plan)

${ }^{1}$ Health insurance plans available through Healthcare.gov.
This is not meant to be personal advice. Those with incomes below $\$ 17,236$ for an individual or $\$ 23,336$ for a couple may not be eligible for a subsidy in some states; other states have lower limits. A qualifying plan will allow you to make contributions to a Health Savings Account (HSA). When searching for a qualifying plan on the Marketplace website, look for the HSA eligible flag in the upper left-hand corner or use the filter option in the right-hand corner. Qualifying plans may provide less coverage; be sure to evaluate tradeoffs, especially if you are eligible for a premium subsidy.
Source: Healthcare.gov; Kaiser Family Foundation subsidy calculator as of December 16, 2019; https://www.kff.org/interactive/subsidycalculator/. Low costs shown above are for zip code 11217 in Brooklyn, New York and high costs are for zip code 32320 in

## COST WILL VARY BY GEOGRAPHY, AGE AND <br> OTHER FACTORS. FOR <br> YOUR ESTIMATE, SEE: <br> https://www.kff.org/interacti ve/subsidy-calculator/

Enrollees in Bronze plans may be healthier than those in Silver plans. For any specific individual, out-of-pocket expenses will likely be higher in a Bronze plan. Regardless of which plan type you choose, deductibles and copayments will vary from plan to plan.

Premium tax credits and cost-sharing subsidies may be available to some individuals with Modified Adjusted Gross Income below $\$ 49,960$ for an individual or \$67,640 for a couple in most states.

## J.P.Morgan

## Marketplace plan costs usually increase with age

2020 Marketplace plan monthly cost estimate for one person: non-smoker, national average


UNDERSTAND COSTS SPECIFIC TO YOUR SITUATION

Marketplace plan insurers typically charge older individuals more than younger ones.

To account for age-related increases plus inflation, use an annual cost increase of 6.0\% for health care costs prior to Medicare eligibility.

Cost trends and increases
due to age vary by
geography. For more
information see:
https://www.kff.org/interacti ve/subsidy-calculator/

Sign up for Part A and B on Medicare.gov

Part A:
(inpatient hospital insurance)
$+$

## Part B:

(insurance that covers doctor visits, tests and outpatient hospital visits)


3 Prepare for additional expenses

- Out-of-pocket drug expenses aren't covered
- Need income or savings for these costs; costs can change as your health changes
- Medicare does not cover most long-term care costs
- Custodial care for activities of daily living is not covered
- Medicaid may pay for long-term care if you have few assets and low income ${ }^{1}$


## MEDICARE DETAILS

Individuals who have paid Medicare taxes for 10 years (and their spouses who are age 65
or older) are eligible for Medicare at age 65.

Enroll during your Initial
Enrollment Period
(3 months before and
3 months after your 65 ${ }^{\text {th }}$
birthday month) or face lifetime penalties.

Sign up the month before the month you turn 65 to avoid coverage gaps.

Reevaluate your choice during open enrollment October $15^{\text {th }}-\operatorname{Dec} 7^{\text {th }}$ each year.

For help, visit the Medicare Rights Center at www.medicarerights.org or your State Health Insurance Assistance Program (SHIP) at www.shiptacenter.org.

[^10]
## Assumes adequate employer coverage and qualification for Medicare at age $65{ }^{1}$



Check with your employer: Do you have creditable coverage for major medical and drugs? ${ }^{2}$


Do you contribute to a Health Savings Account (HSA)?


Have you filed or will you file for Social Security benefits within 6 months?


## Sign up for Medicare and stop monthly HSA contributions ${ }^{3}$

- Enroll in Medicare the month before the month you turn 65 to avoid gaps in coverage.
- Stop monthly HSA contributions to avoid tax penalties.


## Sign up for Part A

- Part A is free for people who paid payroll taxes for 40 quarters (10 years) and employer coverage is usually primary.
- If you want to contribute to an HSA in the future, do not sign up for Social Security benefits and disenroll from Part A. ${ }^{3}$


## Do not sign up for Medicare

- HSA contributions while on Medicare will result in tax penalties. ${ }^{4}$


## Stop HSA contributions and opt out of Medicare Part B

- Once you start Social Security benefits, you will automatically be enrolled in Part A, retroactive to the lesser of six months or age 65.
- Tax penalties apply if you are enrolled in Part A and contribute to an HSA. ${ }^{4}$ Contact Medicare.gov to opt out of Part B.


## AVOID COVERAGE GAPS AND PENALTIES

Creditable coverage is key: late enrollment penalties will apply if you don't have creditable coverage and don't sign up in your enrollment window (3 months before to 3 months after your $65^{\text {th }}$ birthday month).

COBRA coverage (a temporary extension of major medical employer coverage when work stops) is not creditable, although some extended prescription coverage may be creditable (ask for documentation).

[^11]Original Medicare costs in retirement (in 2020 dollars)

## A GROWING CONCERN

Given variation in health care cost inflation from year to year, it may be prudent to assume an annual health care inflation rate of $6.0 \%$, which may require growth as well as current income from your portfolio in retirement.

In 2020 Dollars

[^12]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-of-pocket caps, those limits do not include prescriptions.
- Consider maintaining an emergency reserve fund for high out-of-pocket cost periods.

[^13]The surcharge amount is the same for all income levels within a band
If you go over a threshold, you pay the additional premium for that band

| Modified Adjusted Gross Income (2 Years Prior) |  | Additional Annual Premium Amount <br> Per Person <br> Parts B \& D in 2020 |
| :---: | :---: | :---: |
| 8 <br> FILING SINGLE | $80$ <br> FILING JOINTLY |  |
| \$87,000-\$109,000 | \$174,000-\$218,000 | \$840 |
| \$109,001-\$136,000 | \$218,001-\$272,000 | \$2,101 |
| \$136,001-\$163,000 | \$272,001-\$326,000 | \$3,385 |
| \$163,001-\$499,999 | \$326,001-\$749,000 | \$4,657 |
| \$500,000 or more | >\$750,000 or more | \$5,081 |

## SURCHARGE DETAILS

There may be a bigger impact for singles and surviving spouses: Medicare surcharge thresholds for singles are half of the thresholds for couples.

Couples are less likely to be affected unless they have significant pensions, work or rental income.

Filing an appeal?
If you have stopped work or you have lower income due to circumstances outside of your control, you might be eligible for an appeal. See form SSA-44 for details: https://www.ssa.gov/forms/ ssa-44-ext.pdf

Lifetime probability of needing long-term care (LTC) services by type


Lifetime distribution and duration of need for significant LTC at age 65


Men - Women

## CONSIDER THE RANGE

OF POSSIBLE CARE NEEDS
There is a high likelihood of needing care. This often starts at home before progressing to other settings.

While considering the range of possibilities, take into account that 1 in 10 men and nearly 2 in 10 women are projected to have a significant care need for more than 5 years.

[^14]

## THE COST OF CARE

The median cost for a home health aide is $\$ 23$ an hour but can vary widely. While the most common starting point for care is at home, it may progress to other settings.
The national annual median cost for a private room in a nursing home is $\$ 102,200$. These costs are commonly between $\$ 85,000$ and $\$ 120,000$ but may be lower or higher. For costs specific to your area see:
www.genworth.com/costofcare

## Consider utilizing more than one solution



## FAMILY

Family and friends may provide some assistance or help coordinate care


## SAVINGS

Savings may fund paid care - and some other expenses such as travel may go down

## INSURANCE

Options include traditional long-term care insurance,
combination life and annuity products, life insurance for a surviving spouse, and deferred annuities for income late in life


## CONTINUING CARE RETIREMENT COMMUNITIES

Known as CCRCs, these are communities where people start living on their own and as care needs develop additional services or facilities are provided (costs and services vary) ${ }^{2}$


## HOME EQUITY

Second homes may be sold; the home equity in your primary residence may be used if your other options are limited; credit availability and home values may fluctuate

## MEDICAID

## After exhausting

 other optionsRules to qualify vary by state but generally you must be low income with few assets to qualify ${ }^{1}$


## START PLANNING EARLY

- Will you want to move closer to your family?
- If insurance affordability is an issue, is it feasible to buy less coverage and combine it with other solutions?
- Are you saving in a Health Savings Account (HSA)? HSAs may be used tax free for qualified expenses or after tax without penalty after age 65 for nonqualified expenses. ${ }^{3}$
- If you want care at home, consider how you will remain socially connected and the potential costs of doing so.

[^15]
## Short-term goals

Includes emergency reserve fund of total spending needs for 3-6 months

## Medium-term goals

5-10 years, e.g. college, home

## Long-term goals

$15+$ years, e.g. retirement

## 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.

## Range of stock, bond and blended total returns

Annual total returns, 1950-2019
$\square$ Stocks $\square$ Bonds $\square 50 / 50$
47\% $43 \%$

-39\%
1 year
5-year
rolling
10-year
rolling
20-year rolling

Source (top chart): J.P. Morgan Asset Management.
Source (bottom chart): Barclays, Bloomberg, FactSet, Federal Reserve, Robert Shiller, Strategas/Ibbotson, J.P. Morgan Asset Management. Returns shown are based on calendar year returns from 1950 to 2019. Stocks represent the S\&P 500 Shiller Composite and Bonds represent Strategas/lbbotson for periods from 1950 to 2010 and Bloomberg 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.


## Considerations

What is the time horizon and appropriate planning vehicle for your heirs and your estate goals?

What are your desires/wants?

How much risk are you willing to take?

| What are your | $\square$ Social Security |
| :--- | :--- |
| basic needs? | $\square$ Pension |
|  | $\square$ Protected income |
| What income <br> sources do you <br> have or will you <br> need to create? | $\square$ High-quality bonds |

## BUILDING YOUR PLAN

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


## PORTFOLIO TIME HORIZON

| 1 year | $15+$ years |  |
| :--- | :---: | ---: |
| Near-term <br> needs | Intermediate-term | needs |

## TIME-BASED <br> 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.

## Retirement profiles by retirement planning outcome

Retirement investable wealth profiles and diversified portfolio priorities


Increasing Wealth:
Investment return exceeds
spending needs
Priority: Total return

Preserve Principal:
Spend investment return only
(income and/or appreciation)
Priority: Current income

```
ALIGN YOUR OBJECTIVE
WITH YOUR OUTCOME
```

Retirement can mean several goals for your portfolio - current income, growth, sustainable withdrawals and/or protected income. To find the right balance, your projected outcome from your retirement plan can help you identify which of these to consider making a priority for your diversified portfolio.

## Sequence of return risk - lump sum investment



Annual returns by scenario

Average return: 5.0\%


GET INVESTED AND STAY INVESTED

When making a one-time long-term investment, your average annual return will determine your outcome, regardless of the sequence in which the return is experienced.

## Sequence of return risk - saving for and spending in retirement

Portfolio values assuming various return sequence scenarios



THE GREATEST RISK IS WHEN WEALTH IS GREATEST

When saving for retirement, the return experienced in the early years has little affect compared to growth achieved through regular savings. However, the rates of return just before and after retirement - when wealth is greatest - can have a significant impact on retirement outcomes.

Returns of the S\&P 500
Performance of a \$10,000 investment between January 3, 2000 and December 31, 2019


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 shown for illustrative purposes only and are not meant to be representative of actual results while investing over the time periods shown. The hypothetical performance calculations for the respective strategies are shown gross of fees. If fees were included, returns would be lower.
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 31, 2019.

## PLAN TO STAY INVESTED

Trying to time the market is extremely difficult to do. Market lows often result in emotional decision making. Investing for the long term while managing volatility can result in a better retirement outcome.

# Tax-Deductible Contributions / Investments ${ }^{1}$ <br> Tax-Deferred Account Growth <br> <br> Tax-Free <br> <br> Tax-Free Withdrawals 

 Withdrawals}

## Pre-tax 401(k)/ <br> Traditional IRA

Traditional IRA $\quad$| For qualified |
| :--- |
| withdrawals |

## Retirement accounts:

Taxes generally apply to contributions or withdrawals. Most withdrawals must be qualified to avoid tax penalties. ${ }^{2}$

# After-tax 401(k) / <br> Non-deductible <br> Traditional IRA 

## Health Savings

Account (HSAs) ${ }^{3}$

## For qualified health care expenses

## Federal taxes; states may differ. This is not intended to be individual tax advice. Consult your tax advisor

${ }^{1}$ Income and other restrictions may apply to contributions. Non-tax deductible may also be referred to as after-tax contributions. Tax penalties usually apply for early withdrawals. Qualified withdrawals are generally those taken over age $591 / 2$; qualification requirements for amounts converted to a Roth from a traditional account may differ; for some account types, such as Roth accounts, contributions that are withdrawn may be qualified. See IRS Publications 590 and 560 for more information.
${ }^{2}$ Withdrawals from after-tax $401(\mathrm{k})$ and non-deductible IRAs must be taken on a pro-rata basis including contributions and earnings growth. For nondeductible IRAs, all Traditional IRAs must be aggregated when calculating the amount of pro-rata contributions and earnings growth.
${ }^{3}$ There are eligibility requirements. Qualified medical expenses include items such as prescriptions, teeth cleaning and eyeglasses and contacts for a medical reason. Cosmetic procedures, such as teeth whitening, and general health improvement, such as gym memberships and vitamins, are not qualified expenses. A $20 \%$ tax penalty applies on non-qualified distributions prior to age 65 . After age 65 , taxes must be paid on non-qualified distributions. See IRS Publication 502 for details.


## GETTING STARTED

Start with emergency savings and make sure to take advantage of employer matching funds if they are available.

If long-term retirement savings are your objective, leave HSA funds in your account to grow while you fund current health care expenses from other accounts.

Savings accounts and taxable Tax-advantaged retirement savings accounts

Additional loan payments / debt reduction

Tax-advantaged savings for health care expenses

[^16]
## A little goes a long way

Cumulative growth attributed to contributions, employer match and investment returns
Assumes a long-term, diversified investment portfolio

Potential investment returns:
Consider a diversified
solution for long-term investing

Start age: $\mathbf{2 5}$
Retirement age: 65
Starting salary: \$50,000
Employee contribution: 5.0\%
Employer match: 2.5\%

## OPPORTUNITY IS KNOCKING

Open the door by taking advantage of your employer match if available, and consider contributing even more to build your portfolio. MODEL ASSUMPTIONS
 retire at the end of age 65 . Growth of portfolio is tax deferred. Investment return is based on 10,000 simulations of a hypothetical portfolio with an average $6 \%$ return over the 40 -year time period.
The above example is for illustrative purposes only and not indicative of any investment.
Source: J.P. Morgan Asset Management, Long-Term Capital Market Assumptions.

Account growth of auto-escalate vs. a static contribution


## MODEL ASSUMPTIONS

Start age: 25
Retirement age: 65
Starting wages: \$50,000
Wage growth: 2.0\%
Assumed annual employer match: 50\% of contribution, capped at 3\%

Investment return: 6.0\%

Individual is assumed to retire at the end of age 65. Growth of portfolio is tax deferred; ending portfolio may be subject to tax. The above example is for illustrative purposes only and not indicative of any investment.

Growth of 401(k) investment


MITIGATE THE EFFECTS OF LOANS

If taking a loan from your 401(k) is unavoidable, try to mitigate the impact by continuing contributions while repaying the loan. It is especially important to ensure you continue to receive an employer match, if available.

Assumed 401(k) contributions


Asset Management

## 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 \$9,875 | Up to \$19,750 | $0 \%$ | 1.45\% (employee portion, employers also pay $1.45 \%$ ) | 0\% | -Medical expenses greater |
| 12\% | \$9,875-\$40,125 | \$19,750-\$80,250 | (single) / \$80,000 (married)] |  |  | than $7.5 \%$ of AGI deductible <br> -SALT (state and local taxes) |
| 22\% | \$40,125-\$85,525 | \$80,250-\$171,050 | 15\% <br> [up to $\$ 441,050$ <br> (single) / \$496,600 <br> (married)] |  |  | deduction capped at \$10,000 |
| 24\% | \$85,525-\$163,300 | \$171,050-\$326,600 |  |  |  | -Mortgage interest deduction limited to primary/secondary |
| 32\% | \$163,300-\$207,350 | \$326,600-\$414,700 |  |  |  | homes with up to $\$ 750,000$ new debt. Deduction is |
| 35\% | \$207,350-\$518,400 | \$414,700-\$622,050 |  | 2.35\% (includes 1.45\% employee tax referenced above plus additional $0.90 \%$ tax for earned income above MAGI* $\$ 200,000 / \$ 250,000$ threshold) | 3.80\% (additional tax will be levied on lesser of i) net investment income or ii) excess MAGI above \$200,000/\$250,000 threshold) | allowed on new home equity debt that is used to repair, |
| 37\% | \$518,400 or more | \$622,050 or more | 20\% |  |  | build or improve upon home. <br> -Cash charitable gifts deductible up to 60\% of AGI |

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, tax-exempt interest and Social Security benefit.

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

| Type of gain | Maximum 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 | \$72,900 | \$518,400-\$810,000 |
| Long-term capital gains (assets held more than 12 months) \& qualified dividends | 20\%/23.8\%* | Married filing jointly | \$113,400 | \$1,036,800-\$1,490,400 |

*Includes top tax rate plus $3.8 \%$ Medicare tax on the lessor of net investment income or excess of MAGI over threshold (single threshold $\$ 200,000$; married filing jointly $\$ 250,000$ ).
**The exemption amount is reduced .25 for every $\$ 1$ of AMTI (income) above the threshold amount for the taxpayer's filing status. For AMTI above the top range the exemption will be $\$ 0$.
Federal estate, generation-skipping transfer (GST) tax \& gift tax exemption

| Top federal estate tax rate | $40 \%$ |
| :--- | :--- |
| Federal estate, GST \& gift tax exemption | $\$ 11.58$ million per individual/ $\$ 23.16$ million per couple* $^{*}$ |
| Annual gift tax exclusion | $\$ 15,000$ per donor, per donee $(\$ 30,000$ per couple) |

*Increased levels expire after 2025.

|  | Traditional IRA | Roth IRA | Roth IRA conversion |
| :---: | :---: | :---: | :---: |
| Maximum contribution 2020 | - \$6,000 (earned income) <br> - \$7,000 (age 50 and over) ${ }^{1}$ <br> - Reduced by Roth IRA contributions | - \$6,000 (earned income) <br> - \$7,000 (age 50 and over) ${ }^{1}$ <br> - Reduced by Traditional IRA contributions | No limit on conversions of Traditional IRAs, SEP IRAs, SIMPLE IRAs (if open 2+ years) |
| Income phaseout ranges for contribution deductibility | 2019 Single: $\$ 64,000-\$ 74,000^{2}$ <br>  Married: $\$ 103,000-\$ 123,000^{2}$ <br> $\mathbf{2 0 2 0}$ Single: $\$ 65,000-\$ 75,000^{2}$ <br>  Married: $\$ 104,000-\$ 124,000^{2}$ | All contributions are non-deductible | N/A |
| Phase-out ranges for Roth contribution eligibility | N/A | 2019 Single: \$122,000-\$137,000 <br> Married: \$193,000-\$203,000 <br> 2020 Single: \$124,000-\$139,000 Married: \$196,000-\$206,000 | N/A |
| Federal tax treatment | - Investment growth is tax deferred and contributions may be tax deductible. Deductible contributions and investment gains are taxed as ordinary income upon withdrawal. <br> - If non-deductible contributions have been made, each withdrawal is taxed proportionately on a prorata basis, taking into consideration all contributions made to all Traditional IRAs owned. | - Taxes are due upon conversion of account balances not yet taxed. <br> - Qualified withdrawals of contributions at any time are tax free and IRS penalty free; converted amounts may be withdrawn tax free. ${ }^{3}$ <br> - Qualified withdrawals of earnings are tax free and IRS penalty free if taken after five years have passed since the account was initially funded and the account owner is age $591 / 2$ or older (other exceptions may be applicable). <br> - Multiple Roth IRAs are considered one Roth IRA for withdrawal purposes and distributions MUST be withdrawn in a specific order deemed by the IRS that applies regardless of which Roth IRA is used to take that distribution. |  |
| Early withdrawals | Early withdrawals before age $591 / 2$ are generally subject to a $10 \%$ IRS penalty unless certain exceptions apply. |  |  |
| Mandatory withdrawals | By April 1 of the year after turning 72 ( $701 / 2$ for those born prior to 7/1/49). | None for account owner | None for account owner |
| Deadline to contribute | $\begin{aligned} & \text { 2019: April } 15,2020 \\ & \text { 2020: April } 15,2021 \end{aligned}$ | 2019: April 15, 2020 <br> 2020: April 15, 2021 | N/A |

[^17]
## J.P.Morgan

$\left.\begin{array}{|l|l|l|l|}\hline \text { Type of Retirement Account } & \text { Specifics } & 2019 & 2020 \\ \hline & \begin{array}{l}\text { 401(k) elective deferral limit/catch-up contribution } \\ \text { (age } 50 \text { and over) }\end{array} & \$ 19,000 / \$ 25,000 & \$ 19,500 / \$ 26,000 \\ \hline & \text { Annual defined contribution limit } & \$ 56,000 & \$ 57,000 \\ \hline & \text { Annual compensation limit } & \$ 280,000 & \$ 285,000 \\ \hline & \text { Highly compensated employees } \\ \text { 401(k), 403(b), 457(b) } \\ \text { (age } 50 \text { and over) }\end{array}\right)$
${ }^{1}$ 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 $\$ 285,000$ (2020). IRS Pub. 560 and Notice 2019-59.
${ }^{2}$ Employer contributions may not exceed $\$ 57,000$ or $25 \%$ of compensation (2019). Other rules apply for self-employed individuals. IRS Pub. 560 .
${ }^{3}$ Internal Revenue Procedure 2018-30, May 10, 2018 and Internal Revenue Procedure 2019-22, May 28, 2019.
${ }^{4}$ 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. SSA.gov as of November 19, 2019.

## J.P. Morgan Asset Management - Index definitions \& disclosures

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 whole, 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 assets 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 warrant its accuracy or completeness. References to future returns are not promises or even estimates of actual returns a client portfolio may achieve.
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[^0]:    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 (top chart): Bureau of Labor Statistics American Time Use Survey 2016, J.P. Morgan Asset Management analysis.

[^1]:    Source (chart): Social Security Administration, J.P. Morgan Asset Management.
    Source (longevity at age 62): Social Security Administration, Period Life Table, 2016 (published in 2019), J.P. Morgan Asset Management. Source (expected returns): J.P. Morgan Asset Management Long-Term Capital Market Assumptions.

[^2]:    Source: J.P. Morgan Asset Management analysis, 2019. 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 2019 for a single wage earner at age 65 and a spousal benefit at age 62 reduced by Medicare Part B premiums. The income replacement needs may be lower 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 two-spouse household; however, the loss of the Social Security spousal benefit may offset the spending reduction. Percentages and values may not sum due to rounding.

[^3]:    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 (2013-2016); Social Security benefits using modified scaled earnings in 2019 for a single wage 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.

[^4]:    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 (2013-2016); Social Security benefits using modified scaled earnings in 2019 for a single wage earner at age 65 and a spousal benefit at age 62 reduced by Medicare Part B premiums. For more details, see slide 15 .
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[^5]:    *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 and Roth $401(\mathrm{k})$ accounts. RMD $=$ Required Minimum Distributions, which are typically due no later than April 1 following the year the owner turns 72 and are calculated every year based on the year-end retirement account value and the owner/plan participant's life expectancy using the IRS Uniform or Joint Life Expectancy Table. Employer contributions are typically pre-tax and are subject to tax upon distribution.
    The above example is for illustrative purposes only.
    Source: J.P. Morgan Asset Management.

[^6]:    ${ }^{1}$ Must have a qualifying high-deductible health plan to make contributions. Funds in the HSA may be withdrawn tax free for qualified medical expenses unless a credit or deduction for medical expenses is claimed. After age 65 funds also may be withdrawn at ordinary income tax rates without penalty for any reason. Some health insurance premiums may be qualified expenses such as COBRA coverage, coverage while receiving state or Federal unemployment compensation, Medicare Part B and D premiums and qualified long-term care insurance premiums up to certain limits, but excludes Medigap / Medicare supplement policies and most long-term care policies that include annuity income or life insurance. See IRS Publications 969 and 502. This is not intended to be individual tax advice; consult your tax advisor.
    The above example is for illustrative purposes only and not indicative of any investment. Does not include account fees. Present value of illustrated HSA after 15 years is $\$ 146,885$. Estimated savings from tax deductions at a $37 \%$ marginal rate are $\$ 45,430$. 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 $\$ 2,000$ was held in a cash account, the illustrated cumulative HSA account value would be $\$ 192,894.2020$ family contribution limit is $\$ 7,100$ adjusted for inflation of $2.0 \%$ for 30 years. Individual 2020 contribution limit is $\$ 3,550 . \$ 197,687$ is projected to be enough to fund about 13 years of projected average qualified Medicare-related health care expenses for a couple.

[^7]:    The portfolio returns for the historical analysis are calculated based on 40\% S\&P 500 Total Return and 60\% Bloomberg Barclays US Aggregate Total Return. Each portfolio's starting value is set at $\$ 1,000,000$. Withdrawals are increased annually by CPI (CPI NSA Index). Ending wealth at the end of each 30 -year rolling period is in nominal terms.
    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). The hypothetical portfolio for the left chart is composed of All Country World Equity, US Aggregate Bonds and US Cash, with compound returns projected to be $6.5 \%, 3.1 \%$ and $1.9 \%$, 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 $(2.0 \%)$. 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.

[^8]:    Assumptions (top chart): Retire at age 65 with $\$ 1,000000$ and withdraw $5.2 \%$ of the initial portfolio value ( $\$ 52,000$ ). Increase dollar amount of withdrawal by 3.0\% inflation each year (lower than the average inflation rate of the period between 1966-1995).
    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 between a hypothetical investment and the anticipated future return of an index. Past performance does not guarantee future results.

[^9]:    Assumptions (top chart): Retire at age 65 with $\$ 1,000,000$ and withdraw $5.2 \%$ of the initial portfolio value ( $\$ 52,000$ ). "Withdrawal annually increased each year by inflation" assumes 3\% inflation rate. Dynamic withdrawal scenario assumes that if the annual rate of return on portfolio is: 1) less than $3 \%$, withdrawal remains the same as the prior year; 2) between $3 \%$ and $15 \%$, withdrawal is increased by inflation (3\%); 3) greater than $15 \%$, withdrawal is increased by $4 \%$. While the dynamic withdrawal scenario during this historical period provided $14 \%$ more total spending in today's dollars, it is for illustrative purposes only and may not be successful during other time periods.
    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 between a hypothetical investment and the anticipated future

[^10]:    ${ }^{1}$ Medicare does pay for medically necessary skilled nursing facility or home health care with strict requirements that are difficult to meet on a limited basis and for some hospice care. If you transfer assets to others there is a five-year "look back" where the government will recover the assets transferred if you go on Medicaid. This is not personal advice; consult an eldercare attorney if you have questions.

[^11]:    ${ }^{1}$ Assumes Part A is no cost (generally for people who paid payroll taxes for $40+$ quarters or are married to a beneficiary who did so). Some individuals may choose to sign up for Part A and Part B earlier than shown if they want additional coverage
    ${ }^{2}$ Ask your employer for documentation of creditable coverage for major medical and for drug coverage. Employer coverage for <20 people is usually not creditable and will end at age 65 or become secondary after Medicare has paid.
    ${ }^{3}$ To disenroll you must have an interview with the Social Security Administration and use form CMS 1763. When you sign up for Part A again or sign up for Social Security, coverage may be retroactive for up to 6 months. You will be unable to disenroll if you are taking Social Security.
    4 Total HSA contributions for the year in excess of the maximum contribution for the year / the number of months you are eligible to make contributions will result in tax penalties ( $6 \%$ of the excess contribution each year). This is not intended to be individual tax advice; consult your tax advisor.
    For more information, see www.mymedicarematters.org/enrollment/am-i-eligible, sponsored by the National Council on Aging
    Source: IRS Publication 969, National Council on Aging and Medicare.gov websites as of January 23, 2019; JPM analysis.

[^12]:    Notes: Future value age 95 estimated total median cost is $\$ 30,380$. Medigap premiums increase due to age, in addition to annual inflation, except for the following states: AR, CT, MA, ME, MN, NY, VT, WA. In addition, most policies sold in these states may not increase due to age: AZ., FL, GA, ID, NH and MO. If Plan G is not available, analysis includes the most comprehensive plan available.
    Source: Employee Benefit Research Institute (EBRI) as of January 25, 2020; SelectQuote as of January 25, 2020; Milliman as of January 25, 2020; CMS website as of January 25, 2020; Consumer Expenditure Survey as of January 25, 2020; Healthinsurance.org as of February 3, 2020; J.P. Morgan analysis.

[^13]:    Total costs = annual premium + out-of-pocket costs for those with relatively low costs (average for those in the lowest third of the cost distribution), average costs and high costs (average for those in the highest third of the cost distribution).
    Future value age 95 estimated total median cost is $\$ 16,380$. Cost estimates above include 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.
    Source: Employee Benefit Research Institute (EBRI) data as of January 28, 2020; SelectQuote data as of January 28, 2020; Milliman as of January 28, 2020; J.P. Morgan analysis

[^14]:    Top chart: Includes all types of care including managing finances, taking medications, shopping, using transportation and food preparation, as well as more significant care needs. Bottom chart: Significant care needs includes two or more activities of daily living such as eating, dressing, bathing, transferring and toileting or severe cognitive impairment. Those who meet the cognitive impairment criteria who require care for less than 90 days are included in the 90 days -1 year category.
    Source: Top chart: U.S. Department of Health and Human Services, ASPE Issue Brief, Revised February 2016, Table 1. Bottom chart: U.S. Department of Health and Human Services, Administration on Aging statistics last updated October 10, 2017. Most recent data available as of January 28, 2020.

[^15]:    ${ }^{1}$ If you transfer assets to others there is a five-year "look back" where the government will recover the assets transferred if you go on Medicaid. This is not personal advice; consult an Eldercare attorney if you have questions about Medicaid, Medicaid qualification and look-back rules.
    ${ }^{2}$ There are about 2,000 CCRCs in the United States. Mylifesite.net has information about Continuing Care Retirement Communities (CCRCs).
    ${ }^{3}$ HSAs may be used to fund qualified traditional long-term care policy premiums up to certain limits. Necessary home improvements may qualify if they don't improve the value of your home. Services for chronically ill individuals who are unable to perform two or more activities of daily living or who have severe cognitive impairment may be qualified if they are part of a prescribed plan from a licensed practitioner. For a list of qualified expenses see IRS Publication 502 or consult your tax advisor; this is not meant to be personal tax advice.

[^16]:    (Must have a high-deductible health insurance plan that is eligible to be paired with an HSA. Those taking Social Security benefits age 65 or older and those who are on Medicare are ineligible. Tax penalties apply for non-qualified distributions prior to age 65; consult IRS Publication 502 or your tax advisor.
    ${ }^{2}$ This assumes investment in a diversified portfolio may earn 6\% over the long term. Actual returns may be higher or lower. Generally, consider making additional payments on loans with a higher interest rate than your long-term expected investment return.
    ${ }^{3}$ Income limits may apply for IRAs. If ineligible for these, consider a non-deductible IRA or an after-tax 401(k) contribution. Individual situations will vary; consult your tax advisor.
    Source: J.P. Morgan analysis; not intended to be a personal financial plan.

[^17]:    ${ }^{1}$ Must be age 50 or older by December 31 of the contribution year. IRS Publication 590.
    ${ }^{2}$ Assumes participation in an employer's retirement plan. No income limits apply when investors and spouses are not covered by a retirement plan at work. Income limits based on MAGI. For the definition of MAGI, please see slide 49.
    ${ }^{3}$ 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 was 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. IRS Publication 590.
    Source: IRS.gov

