BRIDGING THE GAP TO ENHANCE RETIREMENT SECURITY

APRIL 2020



JOSH COHEN PGIM Institutional Relationship Group



NATHAN SHEETS PGIM Fixed Income



DENNIS SIMMONS CIEBA



Confidential - Not for Further Distribution. For Professional Investor Use. All investments involve risk, including the possible loss of capital. Please see the "Important Information" section for additional disclosures. In times of crises, being a fiduciary responsible for providing Defined Contribution (DC) plans for employees is especially critical.

KEY TAKEAWAYS

- For participants, focus on the long term
- For plan sponsors addressing near-term issues, maintain a fiduciary mindset
- For regulators, beware of unintended consequences
- For plan sponsors evaluating strategic topics, consider evolving plan design



Key learnings from the conversations with Plan Sponsors

The comments, opinions, and estimates contained herein are based on and/or derived from publicly available information from sources that PGIM Fixed Income believes to be reliable. We do not guarantee the accuracy of such sources or information. This outlook, which is for informational purposes only, sets forth our views as of this date. The underlying assumptions and our views are subject to change. Past performance is not a guarantee or a reliable indicator of future results.

Plan Withdrawal and Loan Relief

- Similar to treatment during past disasters (IRS Notice 2005-92)
- Expanded DC Plan Withdrawals
 - Withdrawals before 12/31/20; up to \$100k
 - Eligible if: "reduced work due to SARS/COVID"
 - employee certification acceptable
 - o 10% early withdrawal penalty waived
 - Three-year tax spread and repayment option



- Expanded Plan Loans
 - New loans made before August 15, 2020
 - New loan limit increased from \$50k to \$100k
 - Existing loans: 1-year repayment extension
 - Loans/Withdrawals: Technically plan optional
 - Plan amendments necessary
- Waiver of 2020 Age 70-1/2 RMDs
 - Pre-CARES Act RMDs



OVERVIEW

Snapshot of the Talk:

- Demographic developments
- Key data on U.S. economic inequality
- How do these two trends interact?
- Implications for the economy and markets

The comments, opinions, and estimates contained herein are based on and/or derived from publicly available information from sources that PGIM Fixed Income believes to be reliable. We do not guarantee the accuracy of such sources or information. This outlook, which is for informational purposes only, sets forth our views as of this date. The underlying assumptions and our views are subject to change. Past performance is not a guarantee or a reliable indicator of future results.

5

The Global Labor Force Will Likely Grow More Slowly

	2000-2009	2010-2018	2019-2035 (Proj.)
Global	1.7	1.2	0.8
Advanced Economies			
United States	1.1	0.5	0.2
Euro Area	0.3	-0.1	-0.6
Japan	-0.5	-1.0	-0.8
United Kingdom	0.9	0.4	0.1
Emerging Markets			
Mexico	2.0	1.7	0.9
India	2.1	1.7	1.0
China	1.4	0.2	-0.4
Korea	0.6	0.3	-1.1

Working Age Population: Average Growth (Percent)*

*Ages 15-64.

U.S. DEMOGRAPHICS

The U.S. Demographic Transition

2017 to 2040 1980 to 2017 Percent of Total Percent of Total Population Population 2 2 1 0 0 -1 -1 Based on projected birth rates -2 -2 -3 -3 25-29 30-34 35-39 40-44 45-49 50-54 55-59 60-64 65-69 70-74 5-9 15-19 20-24 90-94 95-99 0-4 10-14 75-79 85-89 100+ 80-84 5-19 20-24 25-29 30-34 55-59 60-64 5-9 50-54 0-4 0-14 35-39 40-44 45-49 65-69 70-74 75-79 85-89 95-99 80-84 90-94 100+ Age Age

Change in U.S. Population Distributions (by Age)

As of 2017

U.S. ECONOMIC INEQUALITY

U.S. Inequality—A Story of Divergent Tails

U.S. Household Wealth (Average)

As of 2019Q1

	Bottom	Next	Next	Тор
	50%	40%	9%	1%
	\frown	(Thousand	,	
Net Assets	20	574	3,484	25,014
Of Which:				
Net Real Estate	7	128	490	2,467
Public Equity	3	59	763	9,755
Deposits & Debt Securities	7	89	641	4,597
Pension Entitlements* Private Business	11	225	1,085	1,465
Ownership	2	31	364	5,539

*Pension Entitlements include both defined benefit and defined contribution plans, but exclude Social Security benefits.

Income and Wealth Share of Top 10%



U.S. ECONOMIC INEQUALITY

Demographics & Household Wealth

(by Age of Head of Household, 2019Q4)





Older Cohorts Account for the Lion's Share of Wealth

Economic Inequality & Demographics

(by Age of Head of Household, 2019Q1)

	Under 40	40-54	55-69	70 Years
	Years Old	Years Old	Years Old	and Over
Net Assets (Thous. of \$)	180	714	1,392	1,258
Total Age-Group Share, Percent	6	21	45	27
Of Which:				
Net Real Estate	41	136	208	233
	8	24	39	29
Public Equity	24	157 19	353	347 30
Deposits & Debt Securities	44	84	221	246
	9	15	43	32
Pension Entitlements	50	212	374	228
	7	25	48	19
Private Business Ownership	24	99	172	135
	7	24	45	24

CONCLUDING THOUGHTS

Implications for the Economy and Markets...

- Aging population and increased inequality will likely continue to shape performance of the economy and markets.
- Both have contributed to soft growth, high saving, and low interest rates since the financial crisis.
 - The old and the wealthy both prefer stable economic and financial conditions to protect their accumulated resources.
 - But both trends may bring reduced aggregate demand and softer growth.
- Aging and inequality may stoke political instabilities, as the young and the less wealthy seek to level the playing field.
- Pensions and other long-term saving vehicles can help address the challenges presented by both trends:
 - They allow broad swathes of the population to accumulate assets and maintain their spending in retirement.

The comments, opinions, and estimates contained herein are based on and/or derived from publicly available information from sources that PGIM Fixed Income believes to be reliable. We do not guarantee the accuracy of such sources or information. This outlook, which is for informational purposes only, sets forth our views as of this date. The underlying assumptions and our views are subject to change. Past performance is not a guarantee or a reliable indicator of future results.





Potential increases in retirement savings shortfalls for workers with NO access to a DC plan

younger workers +5.3x

lowest income quartile workers +1.4x

Source: Employee Benefit Research Institute (EBRI). As of March 2019.

Allocations to Private Real Estate



Sources:

1. Pregin Investor Outlook: Alternative Assets, H1 2019.

2. NREI: 2018 HNWI Research Report, December 2018.

Private Real Estate Improves Portfolio Drawdowns



Accumulation Phase Projected Max Drawdowns

Source: PGIM. Hypothetical example for illustrative purposes only. Stochastic analysis using Moody's Analytics Economic Scenario Generator compared two-asset portfolios of domestic equities and fixed income with three-asset portfolios of domestic equities, fixed income, and private real estate. Projections were done for 2 different age cohorts (25 and 55) up to an assumed retirement at age 65 using 5,000 trials each. Portfolio soft domestic equities, fixed income was a follows: 85% (equities)/15% (fixed income) from age 25-35, 75%/25% from age 35-45, 65%/35% from age 45-55, and 55%/45% from age 55-65. Portfolios including private real estate held static allocations (5 and 10%) to the asset class over the glide path, coming from the existing equity allocation. Analysis is not meant for investment advice.

	Then	Now
Workers are growing more dependent on DC ¹	2008 Private Worker Participation: DB Only: 4% DC Only: 33% Both 12%	2017 Private Worker Participation: DB Only: 2% DC Only: 37% Both 9%
The working population is aging ²	2008 Workforce: Age 55 and older: 18.9%	2018 Workforce: Age 55 and older: 23.5%
Longevity risk is increasing ³	2008 Life Expectancy at Age 65: Men: 17.4 years Women: 20.0 years	2017 Life Expectancy at Age 65: Men: 18.1 years Women: 20.6 years
Account balances have grown significantly ⁴	2009 401(k) Average: \$46,300	2018 401(k) Average: \$103,700
an sponsors increasing preference for keeping retiree assets in plans ⁵	2011 Preference: 60.8%	2019 Preference: 72.3%
Plan sponsors showing greater appreciation for financial wellness ⁶	2014 Focus: 30%	2018 Focus: 65%

1 Employee Benefits Research Institute, US National Compensation Survey 2 US Bureau of Labor Statistics, Current Population Survey 3 OECD 4 Fidelity Investments 5 Plans with a policy for retaining assets; Callan Institute DC Trends Survey. 6 AON/Alight Solutions Hot Topics in Retirement and Financial Wellbeing

REGULATORY UPDATES – SECURE ACT

- Lifetime income disclosure
 - Required on annual benefit statement
 - Fiduciary relief for using model disclosure
 - DOL directed to issue model disclosure
- Lifetime income annuity provider safe harbor
 - DOL may issue guidance
 - Provision effective with SECURE Act passage



DC Evolution Phase:	1.0	2.0	3.0
Plan Design	Do It Yourself	Default driven design	 Setting and measuring broader retirement investing objectives Investment and plan design specifically around supporting decumulation
Participant Support & Communication	Self-service	 Focus on accumulating assets 	 Communicating in terms of projected retirement income Tools and advice on how to support spend down and income sustainability in retirement
Solutions	Lots of ChoiceRetail focus	 Streamlined menus Multi-asset solutions to support accumulation 	 Income-focused glide path design Use of technology to provide more tailored advice and solutions Institutional investment strategy Guaranteed income to hedge unique risks in retirement

MORE INFORMATION



JOSH COHEN PGIM Institutional Relationship Group

<u>Josh.Cohen@pgim.com</u> Web: pgim.com/dc



NATHAN SHEETS PGIM Fixed Income



DENNIS SIMMONS CIEBA

Nathan.Sheets@pgim.com
Web: pgimfixedincome.com

Dennis_Simmons@CIEBA.org Tel: 484-838-9929 Web: CIEBA.org

IMPORTANT INFORMATION

Past performance is no guarantee or reliable indicator of future results. All investments involve risk, including the possible loss of capital. These materials are for informational or educational purposes only. In providing these materials, PGIM is not acting as your fiduciary.

Alternative investments are speculative, typically highly illiquid and include a high degree of risk. Investors could lose all or a substantial amount of their investment. Alternative investments are suitable only for long-term investors willing to forego liquidity and put capital at risk for an indefinite period of time. Equities may decline in value due to both real and perceived general market, economic and industry conditions. Investing in the **bond** market is subject to risks, including market, interest rate, issuer, credit, inflation risk and liquidity risk. Commodities contain heightened risk, including market, political, regulatory and natural conditions and may not be suitable for all investors. The use of models to evaluate securities or securities markets based on certain assumptions concerning the interplay of market factors, may not adequately take into account certain factors and may result in a decline in the value of an investment, which could be substantial.

All charts contained herein were created as of the date of this presentation, unless otherwise noted. Performance results for certain charts and graphs may be limited by date ranges, as stated on the charts and graphs. Different time periods may produce different results. Charts and figures are provided for illustrative purposes and are not an indication of past or future performance of any PGIM product.

These materials represent the views, opinions and recommendations of the author(s) regarding the economic conditions, asset classes, securities, issuers or financial instruments referenced herein, and are subject to change without notice. Certain information contained herein has been obtained from sources that PGIM believes to be reliable; however, PGIM cannot guarantee the accuracy of such information, assure its completeness, or warrant such information will not be changed. The information contained herein is current as of the date of issuance (or such earlier date as referenced herein) and is subject to change without notice. PGIM has no obligation to update any or all of such information; nor do we make any express or implied warranties or representations as to the completeness or accuracy or accept responsibility for errors. Any forecasts, estimates and certain information contained herein are based upon proprietary research and should not be considered as investment advice or are commendation of any particular security, strategy or investment product. These materials are not intended as an offer or solicitation with respect to the purchase or sale of any security or the financial instrument or any investment decision. No liability whatsoever is accepted for any loss (whether direct, or consequential) that may arise from any use of the informations contained in or derived from this report. PGIM and its affiliates. The opinions and recommendations or rives expressed herein, including for proprietary accounts of PGIM or its affiliates. The opinions and recommendations herein do not take into account individual client circumstances, objectives, or preds and securities, financial instruments or strategies to particular clients or prospects. No determination has been made regarding the suitability of any securities, financial instruments or strategies for particular clients or prospects. For any securities or financial instruments mentioned herein, the recipient(s) of this report must make its own independent d

The information contained herein is provided by **PGIM, Inc.**, the principal asset management business of Prudential Financial, Inc. (PFI), and an investment adviser registered with the US Securities and Exchange Commission. PFI of the United States is not affiliated in any manner with Prudential plc, incorporated in the United Kingdom. In the United Kingdom and various European Economic Area ("EA") jurisdictions, information is issued by **PGIM Limited** with registered office: Grand Buildings, 1-3 Strand, Trafalgar Square, London, WC2N 5HR. PGIM Limited is authorised and regulated by the Financial Conduct Authority of the United Kingdom (Firm Reference Number 193418) and duly passported in various jurisdictions in the EA. These materials are issued by PGIM Limited vith registered office: Grand Buildings, 1-3 Strand, Trafalgar Square, London, WC2N 5HR. PGIM Conduct Authority's Conduct of Business Sourcebook. In certain countries in Asia, information is presented by **PGIM (Singapore) Pte. Ltd.**, a Singapore investment manager registered with and licensed by the Monetary Authority of Singapore. In Japan, information is presented by **PGIM (Ing Kong) Limited**, a regulated entity with the Securities and Futures Commission in Hong Kong to professional linvestors as defined in Part 1 of Schedule 1 of the Securities and Futures Ordinance. In Australia, this information is presented by **PGIM (Australia**) Py Ltd. ("PGIM Australia") for the general information of is regulation of the Securities and Futures Ordinance. In Australia, this information is presented by PGIM Limited, which is exempt from the requirement to hold an Australian Services License under the Australian Corporations Act 2001. PGIM Australia") for the general information of the Securities and Futures Ordinance and adviser registration exemption in respect of PGIM Limited, which is exempt from the requirement to hold an Australian Services License under the Australian Corporated and viser registration exemption from the adviser registration of ASIC Class Or

Source of the Josh Cohen's statement "PGIM is a top 10 Global Asset Manager": Pensions & Investments, The Largest Money Managers as of 5/27/2019 based on worldwide institutional assets under management as of 12/31/2018.

20/4 - 1291