Consumer and Finance Outlook

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UNDERSTANDING WHAT CONSUMPTION MEANS



THE BALANCE SHEET FOR U.S. CONSUMERS

<u>Assets</u>

- Very strong labor markets
- Very strong financial markets
- Tax cuts
- Moderating mortgage and credit card debt
- Steady saving rate
- High levels of confidence

Liabilities

- Modest wage growth
- Rising income and wealth inequality
- Very poor retirement preparedness (private and public)
- Substantial student debt
- Risk of job disruption

CONSUMERS HAVE LED U.S. GDP GROWTH

Consumers are driving this recovery
Their optimism is at record levels



Contributions to GDP Growth

Consumer Attitudes

Sources: Bureau of Economic Analysis, University of Michigan, Conference Board

U.S. LABOR MARKET TIGHTENING

Very low unemployment creates opportunities
Is the Phillips Curve dead, or just resting?



Sources: BLS, Haver Analytics

TALE OF THE TAPER

U.S. marginal rates were been reduced across the board
Reduced corporate rates prompted huge share repurchases



Source: Joint Committee on Taxation



WEALTH IS GROWING BUT NOT SPREADING

- Net worth continues to grow
- Gains have not accumulated evenly



Total Household Net Worth

Median Family Net Worth,

Sources: BEA, Federal Reserve, Haver Analytics

RENEWED FRUGALITY

- Spending and income have become better aligned
- Household leverage is under better control



Income and Savings

Household Debt/Income Ratio



HOUSING

- Housing has only recovered modestly
- A number of headwinds have held the sector back



Sources: Census Bureau, National Association of Realtors, Federal Reserve, Haver Analytics

STUDENT LENDING

- Substantial increase in balances; almost a third in deferral or default
- Gains to education are still positive for those who finish



Student Debt

Weekly Earnings by Degree

Sources: Federal Reserve Bank of New York, BLS

ARE SAVING LEVELS SUFFICIENT?

• The data on retirement preparedness are scary

• A majority of households will have to watch consumption carefully

Retirement Account Participation, by Age of Head of Household

Median Value of Retirement Savings Accounts by Income Percentile



Sources: Federal Reserve Board Survey of Consumer Finances, Haver Analytics

PUBLIC BACKSTOP

• Demographics are taking a toll on Social Security

• Reliance on Social Security will make reform discussions difficult



Sources: Social Security Administration, Government Accountability Office, Bureau of Economic Analysis, Haver Analytics

AUTOMATION AND ANXIETY

Man's love/hate relationship with machines is entering a new chapter

• How far and how fast will change occur?



Time spent in all US occupations, %

7	14	16	12	17	16	18
Manag other		Stakeholder interactions	Unpredictabl physical work ²	e Data collection	Data processing	Predictable physical work ²

Catalogue of fears

Probability of computerisation of different occupations, 2013 (1 = certain)

Job	Probability
Recreational therapists	0.003
Dentists	0.004
Athletic trainers	0.007
Clergy	0.008
Chemical engineers	0.02
Editors	0.06
Firefighters	0.17
Actors	0.37
Health technologists	0.40
Economists	0.43
Commercial pilots	0.55
Machinists	0.65
Word processors and typists	0.81
Real-estate sales agents	0.86
Technical writers	0.89
Retail salespeople	0.92
Accountants and auditors	0.94
Accountants and additors	

Source: "The Future of Employment: How Susceptible are Jobs to Computerisation?", by C. Frey and M. Osborne (2013)

Economist.com

The Deleveraging Myth



REFLECTIONS ON THE FINANCIAL CRISIS



The Economist

Idlib: the next Syrian slaughter Facebook and YouTube, censors-in-chief Why the Chinese don't give to charity Brazil's incinerated treasures

Has finance been fixed? TEN YEARS AFTER LEHMAN



SHORING UP FINANCE

- Banks have much better capital positions
- Reduced use of volatile short-term funding



Capital Position: Top 10 U.S. Banks

More Stable Funding

Big banks have reduced reliance on short-term funding that fled during the last crisis, replacing it with deposits



Note: Aggregate data for the liabilities of JPMorgan, Citigroup, Bank of America, Goldman Sachs and Morgan Stanley Source: Company filings

Sources: FRB, SNL, Bloomberg

THE EVOLUTION OF INDEBTEDNESS

 Credit creation has moved from the private sector to the public sector, and from developed countries to China

Private deleveraging is offset by government leveraging

Mature economies (debt as a % of GDP)





CORPORATE DEBT

In most places, corporate debt has risen sharply The bulk of new issues are just above investment grade



BBB My Baby

The explosion of corporate bonds since the last recession has been led by the lowest investment-grade rating, BBB.





Source: Intercontinental Exchange

MEASURES OF FINANCIAL CONDITIONS

Access to capital is not difficult for most borrowers Bond spreads have widened of late, but remain modest



Sources: Federal Reserve Bank of Chicago, Barclay's, Bloomberg

THE LIMITS OF GOVERNMENT LEVERAGE

• Public sector debt has grown quickly since the crisis

Unfunded pension obligations are immense



Government Debt



Sources: Haver Analytics, Citigroup

MONETARY NORMALIZATION

- Crisis-era accommodation is being unwound
- The Fed has initiated "qualitative tightening"



CENTRAL BANK INDEPENDENCE UNDER THREAT?



7:51 AM - Jul 20, 2018

....The United States should not be penalized because we are doing so well. Tightening now hurts all that we have done. The U.S. should be allowed to recapture what was lost due to illegal currency manipulation and BAD Trade Deals. Debt coming due & we are raising rates - Really?

ECB's Draghi warns central banks' independence under threat

China's central bank to pump US\$110 billion into economy as US trade war intensifies

India risks a high stakes fight with its central bank

Erdogan Expands Clout Over Central Bank, as He Promised

PARTING THOUGHTS

Household finances are improved, but may need further repair

Retirement preparedness is a problem for many

Student debt will require enlightened attention

• Human capital accumulation should be stressed, but not at all costs

Financial stability surveillance is imperative

• Risks of a "Minsky Moment" are rising

Central banking is becoming more difficult

Political pressure for easy money is rising

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