

# **US Economic Outlook**

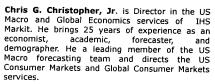
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#### Chris G. Christopher, Jr., PhD, CBE



Prior to joining IHS, Christopher worked for FedEx Services in the forecasting department and as the Chief Econometrician for OIT developing national and regional econometric models. In addition, he worked as a research economist at Regional Economic Models, Inc. (REMI); the New York State Legislative Tax Study Commissions; and as an associate professor, administrator, and university lecturer in econometrics, economics, and business.

Christopher holds a Bachelor of Arts in economics and political science, Master of Arts in economics, Master of Arts in mathematics, Doctorate of Philosophy in economics from the University at Albany. His Ph.D. concentrations are in game theory, mathematical economics, econometrics, and large-scale economic modeling and his Ph.D. dissertation is titled A General Equilibrium Model of Economic Integration.

Dr. Christopher has taught various graduate and undergraduate courses at various business schools and economics departments. At the graduate level he taught courses in econometrics, macroeconomic modeling, forecasting & policy analysis, and public economics. At the undergraduate level he taught several courses in macroeconomics, microeconomics, mathematical economic methods, economic statistics.

Dr. Christopher is often interviewed on macroeconomic and consumer related matters by the US and European media. In addition, he writes a quarterly column for CSCMP's Supply Chain Quarterly, has several academic publications, and writes perspective pieces for the mass media.

He is a member of the Econometric Society, American Economic Association, and National Association of Business Economists (NABE). Chris is on the board of economic advisors for the New York State Assembly, and a member of the NABE Travel & Transportation Roundtable. In addition, Chris is a NABE Certified Business Economist (CBE), Consensus Economics 2013 forecast accuracy award winner (US GDP & CPI).

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## US economic growth will strengthen

- US consumers and businesses enter 2017 with rising optimism.
- Consumer spending will increase at a moderate pace, sustained by gains in employment, real incomes, and household net worth.
- Business fixed investment will benefit from an improving tax and regulatory environment, along with a recovery in energy prices.
- With demand outpacing supply, housing markets continue to recover.
- The recovery in industrial production will gain momentum as the inventory correction nears completion.
- Fiscal stimulus, accelerating prices and wages, and strengthening loan demand will lead to higher interest rates.
- In response to the dollar's appreciation, real import growth will outpace real export growth.
- Recent evidence is supporting "Animal Spirits" of a consumer and business kind. In addition, to a stronger stock market and dollar.

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## President-elect Trump's domestic policy platform

- Reform personal income taxation, reducing the number of brackets from seven to three (12%, 25%, and 33%)
- Reduce the corporate income tax rate from 35% to 15% and apply the 15% rate to pass-through businesses
- Repeal and replace the Affordable Care Act
- Increase spending on infrastructure and defense
- Freeze hiring of federal employees to reduce workforce by attrition
- Cancel executive actions taken by President Obama
- Ease restrictions on energy production, allow pipeline projects to move forward, and open federal lands for energy exploration
- Change Dodd-Frank financial regulations

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## President-elect Trump's international policy platform

- Foreign policy guided by an "America first" principal, emphasizing strength at home rather than engagements abroad
- Renegotiate the North American Free Trade Agreement (NAFTA)
- Withdraw from the Trans-Pacific Partnership (TPP)
- Label China a currency manipulator (although China has intervened to support the renminbi over the past two years)
- Build a wall to close the southern border with Mexico
- Deport or imprison illegal immigrants with felony convictions, multiple misdemeanor convictions, or two prior deportations
- Tightened screening of immigrants, "extreme vetting" of refugees

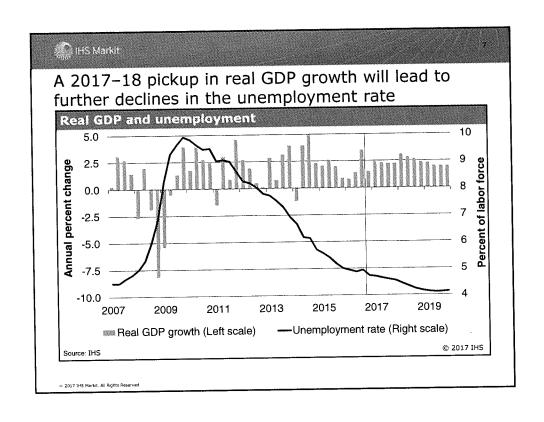
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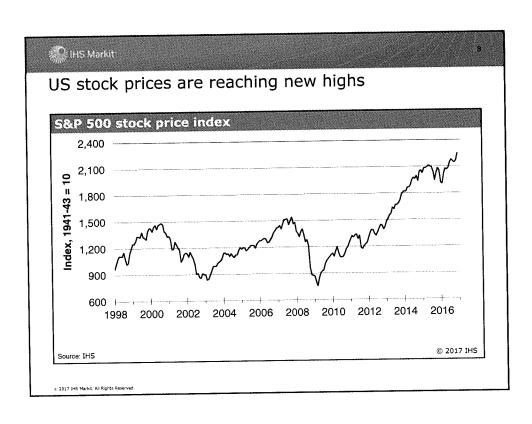


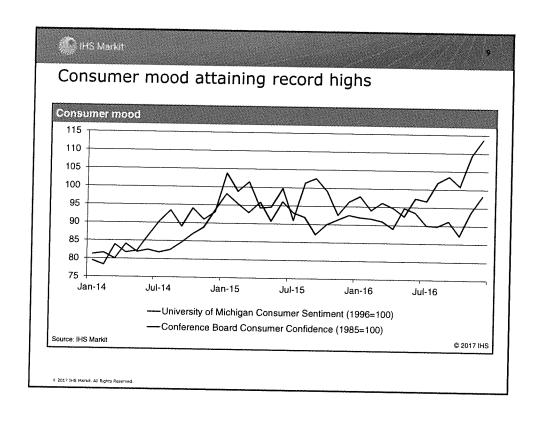
## Policy assumptions in the January forecast

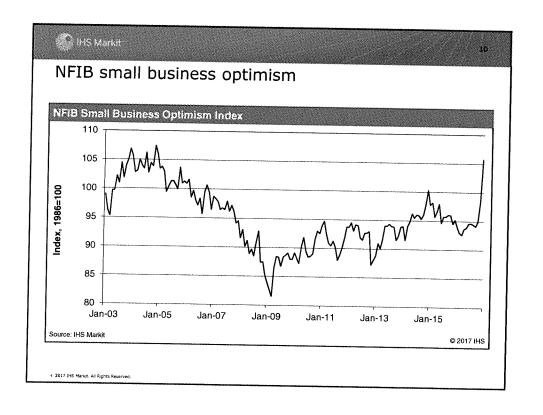
- Personal income tax reforms that lower the average effective tax rate from 21.0% to 19.5%
- A reduction in the statutory corporate income tax rate from 35% to 20%, partially offset by a scaling back of tax credits
- A \$250-billion increase in public infrastructure investments over 10 years, financed by tax receipts from repatriated corporate profits
- Federal Reserve policy rate increases of 75 basis points in each of the next three years, bringing the rate to a long-term equilibrium of 3%

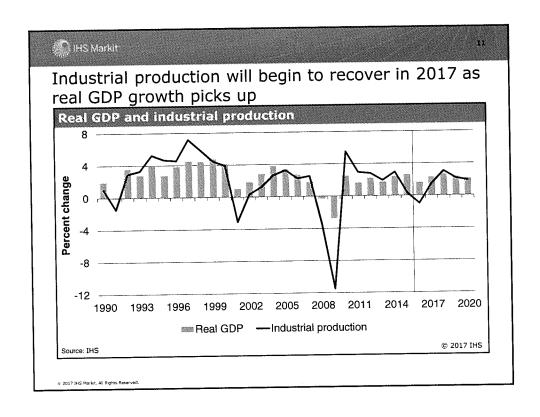
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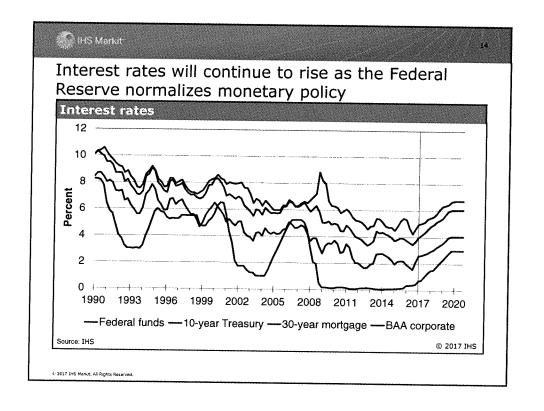


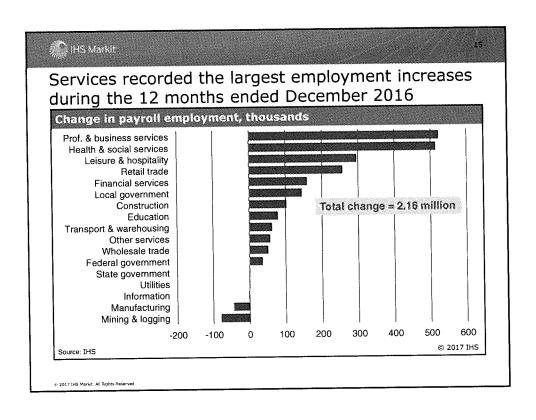


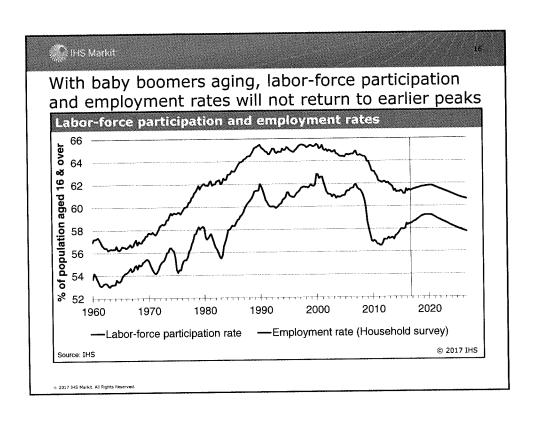


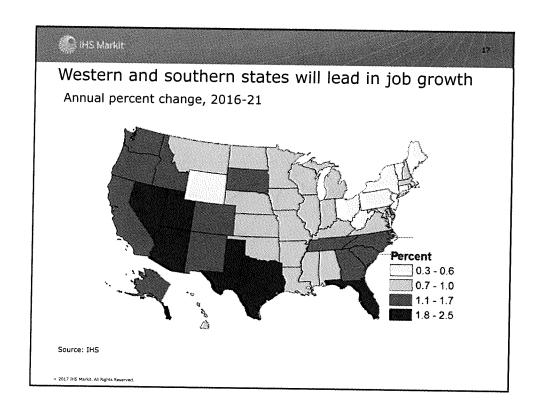
JS economic growth by sector							
Real GDP and its components							
Percent change	2016	2017	2018	2019			
Real GDP	1.6	2.3	2.6	2.3			
Consumption	2.7	2.8	3.2	2.9			
Residential investment	4.7	2.7	3.1	2.6			
Business fixed investment	-0.2	4.6	4.5	3.9			
Federal government	0.7	0.3	-0.8	-1.0			
State & local government	0.9	0.8	1.4	1.4			
Exports	0.4	1.9	2.3	3.1			
Imports	0.9	4.4	6.4	5.1			

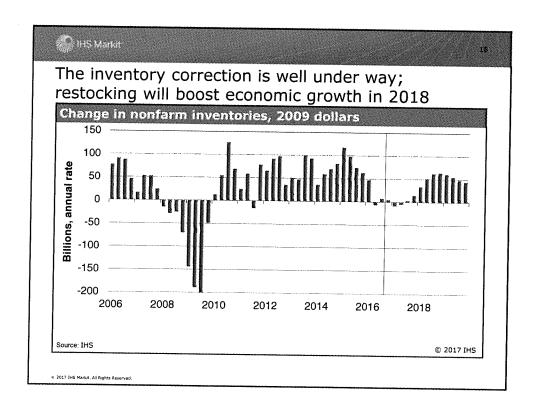
Other key US indicators				
Key indicators				
Percent change	2016	2017	2018	2019
Industrial production	-1.0	1.5	3.0	2.1
Payroll employment	1.7	1.3	1.2	1.2
Light-vehicle sales (Millions)	17.4	17.4	17.6	17.6
Housing starts (Millions)	1.16	1.22	1.32	1.39
Consumer Price Index	1.3	2.5	2.1	2.5
Core CPI	2.2	2.2	2.1	2.2
Brent crude oil price (USD/barrel)	44	54	57	64
ederal funds rate (%)	0.4	0.9	1.7	2.6
l0-year Treasury yield (%)	1.8	2.7	3.2	3.8

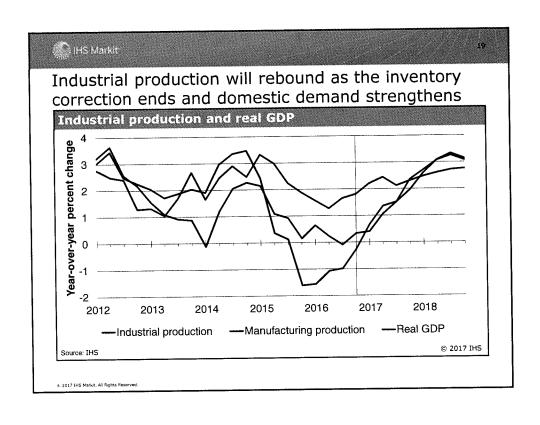


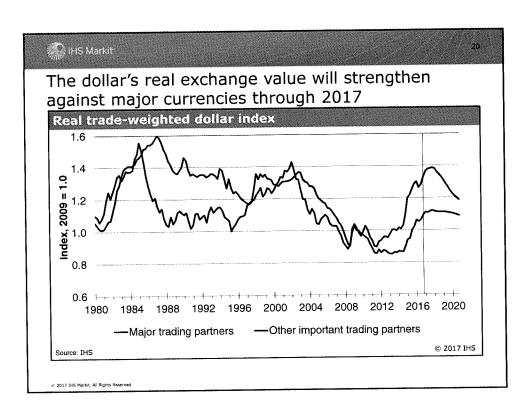


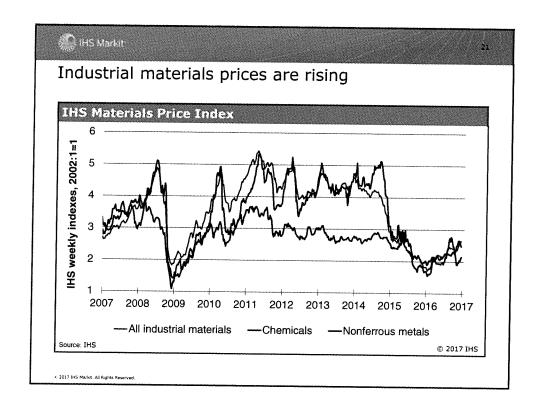


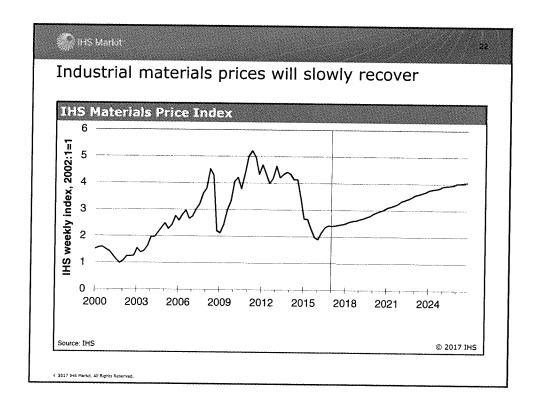


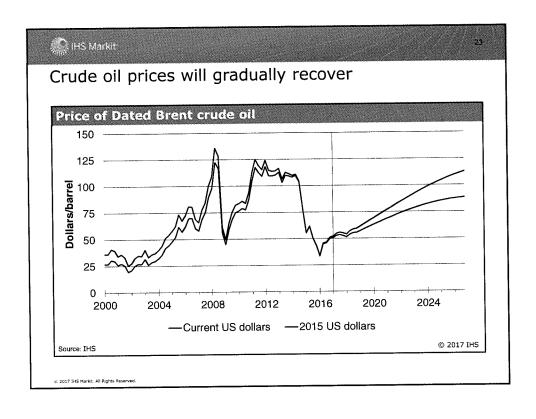


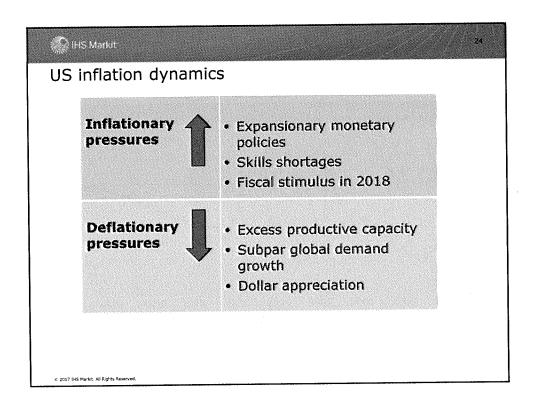


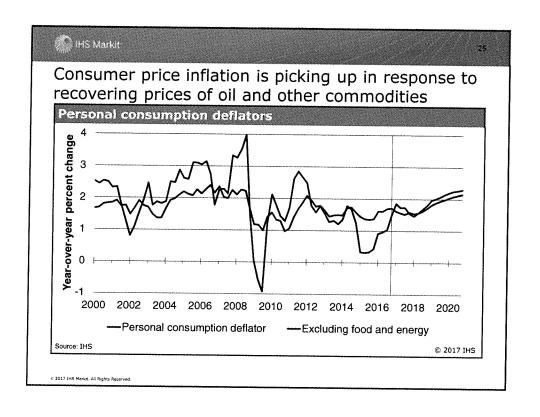


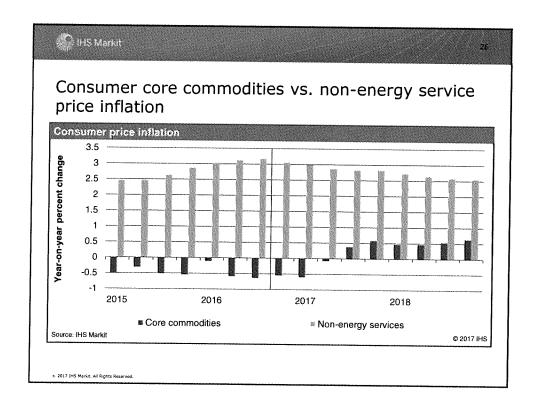


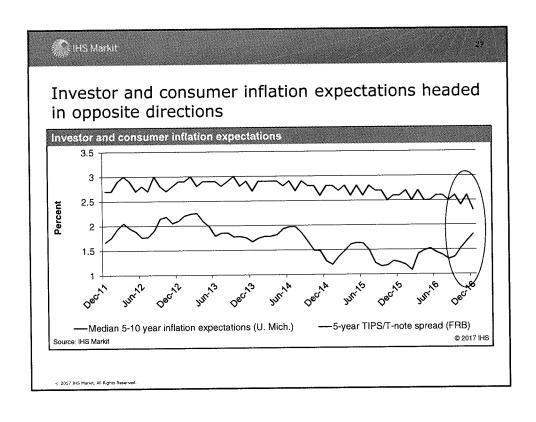


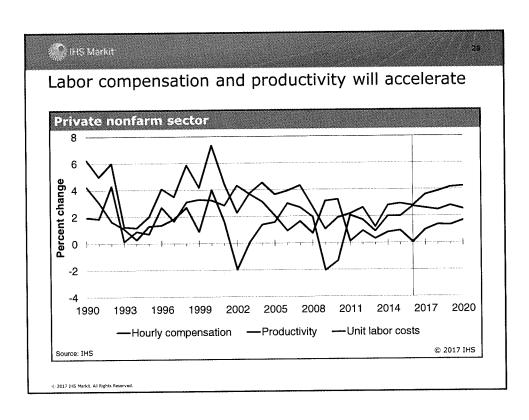


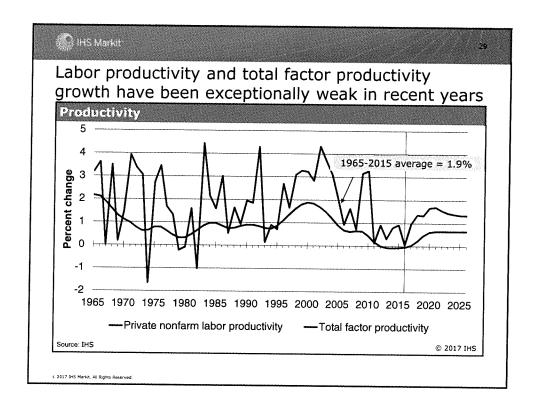


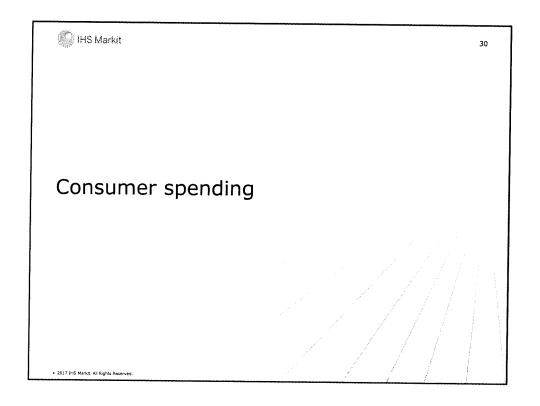


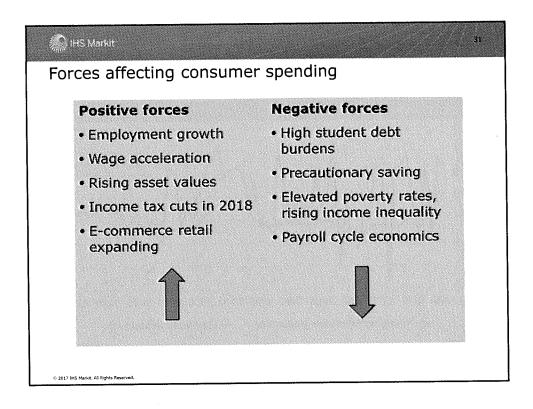




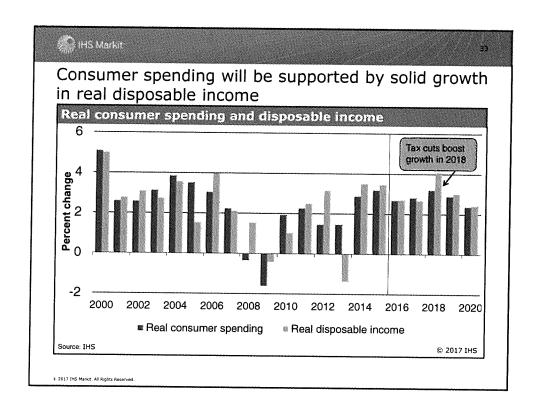


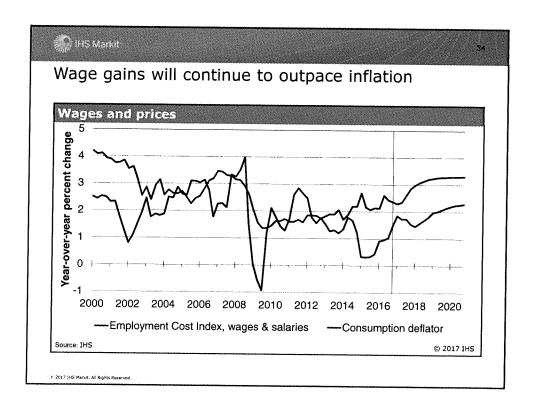


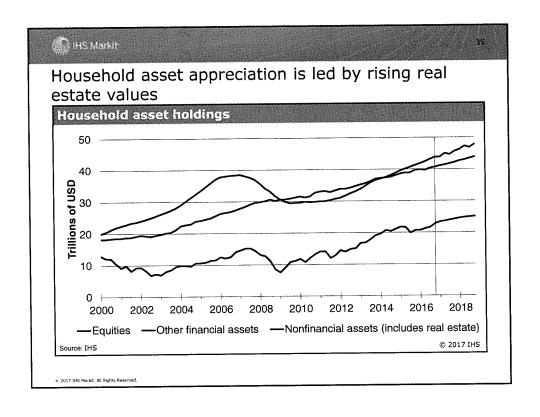


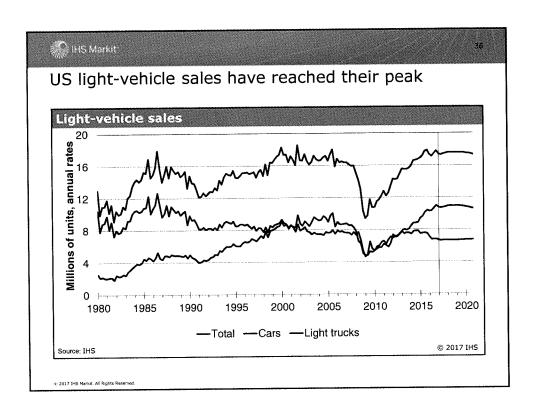


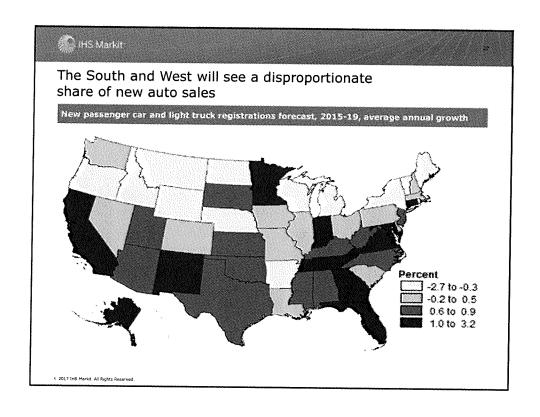
Consumer market indicators					
Percent change	2016	2017	2018	2019	
Real consumption	2.7	2.8	3.2	2.9	
Real disposable income	2.7	2.7	4.1	3.0	
Real household net worth	4.3	3.0	2.6	2.1	
Payroll employment	1.7	1.3	1.2	1.2	
Real wage rate	1.3	0.8	1.5	1.2	
Consumption price deflator	1.1	1.7	1.6	2.0	
Light-vehicle sales (Millions)	17.4	17.4	17.6	17.6	
Single-family home sales (Millions)	5.40	5.50	5.48	5.59	

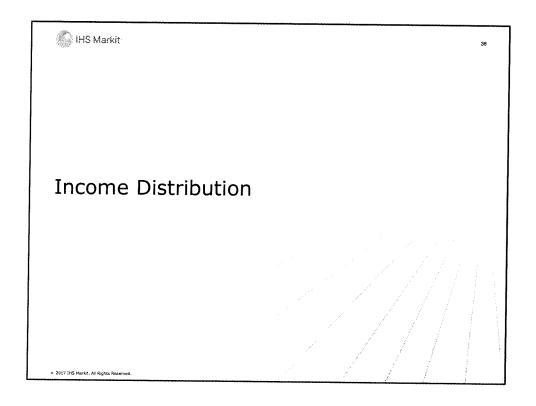


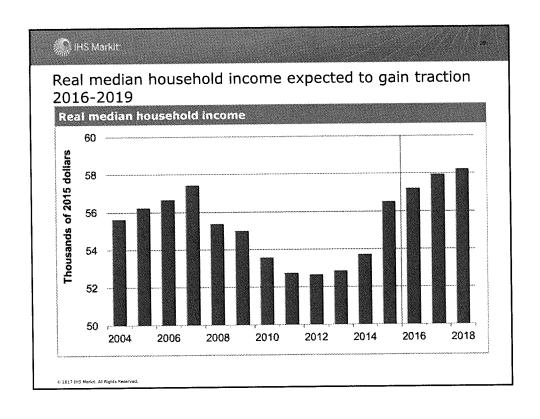


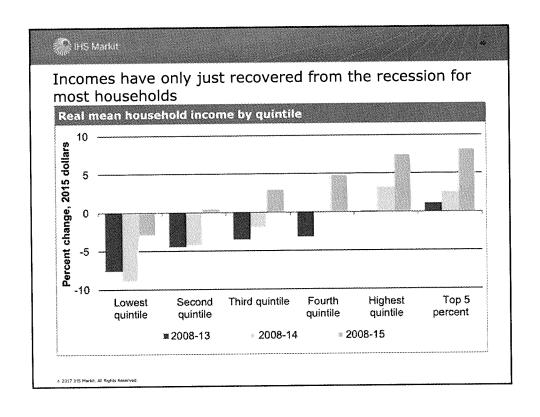


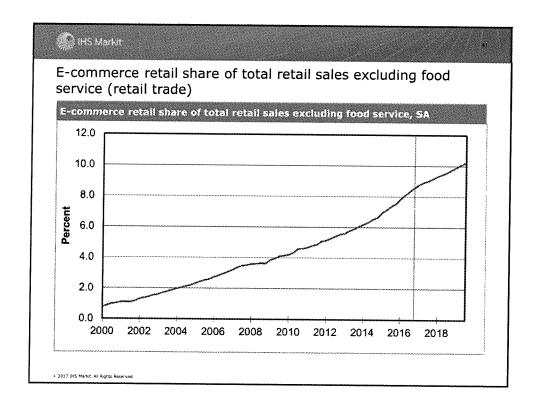


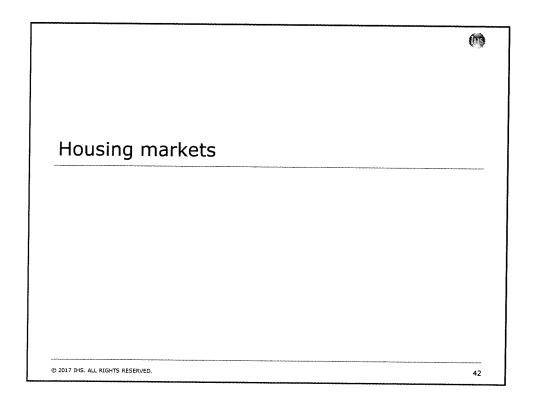














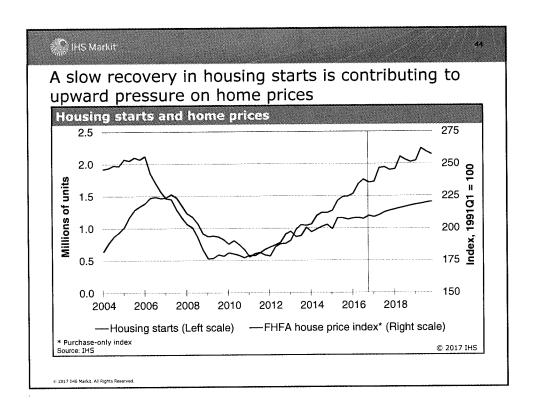
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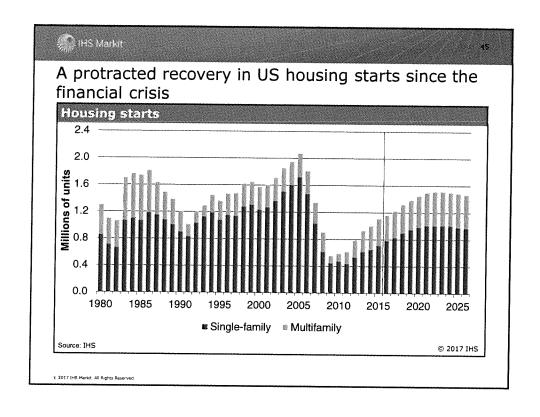
#### Housing markets will continue to recover

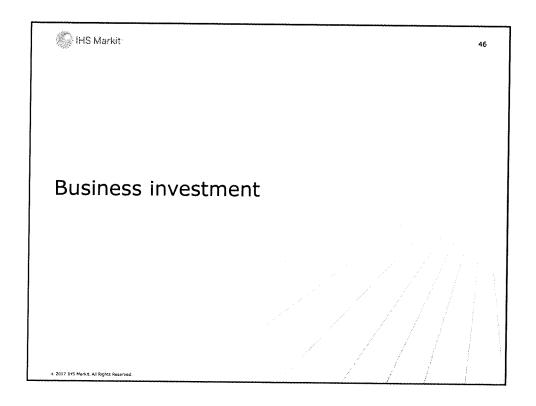
- Housing demand is supported by sustained growth in employment and real incomes. Mortgage rates are still low, but rising.
- Supply is constrained by shortages of labor and developed lots.
- As demand outpaces supply, home prices are rising.
- With many new households choosing to rent rather than own, the US homeownership rate has fallen to a 51-year low.
- Lean inventories of unsold homes, low rental vacancy rates, and rising prices will encourage builders to step up construction activity.
- Multifamily units will account for one-third of starts.

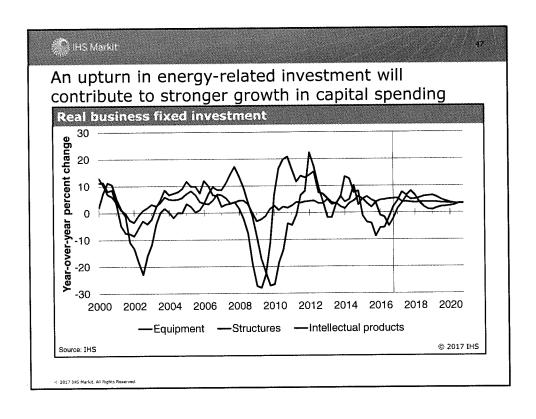


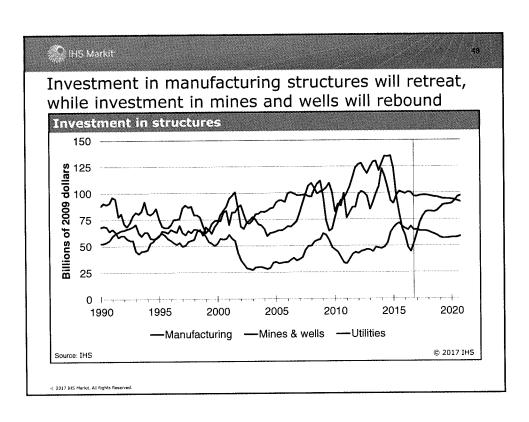
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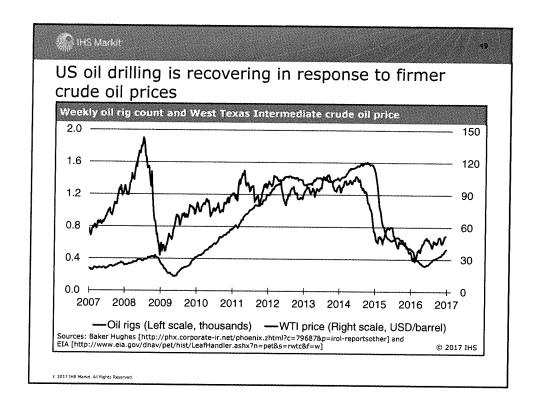


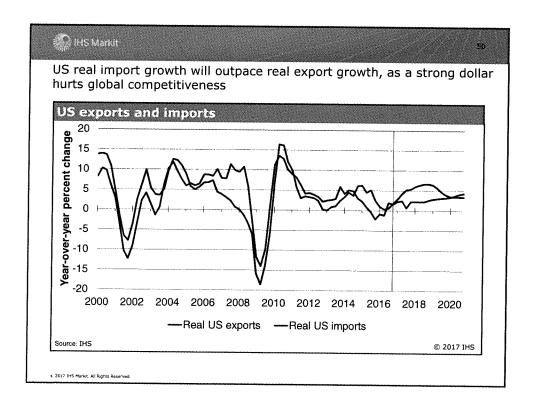


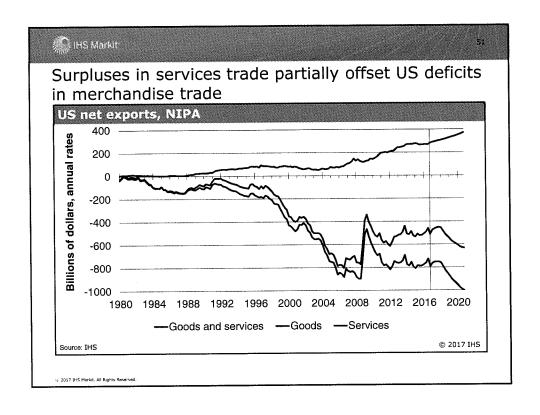


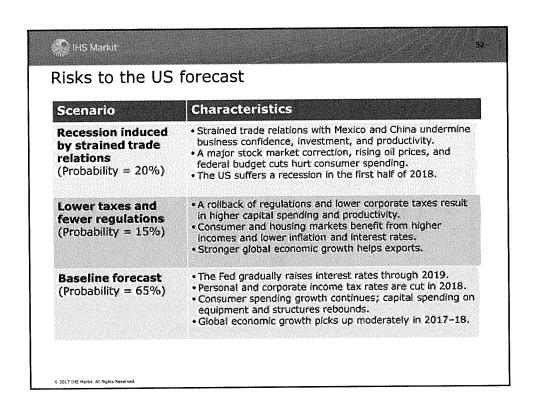










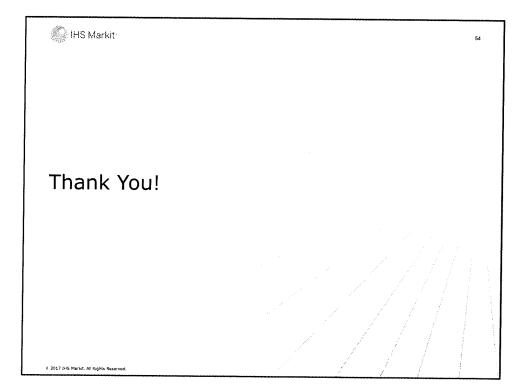




### Bottom line for the US economy

- Real GDP growth is projected to pick up from 1.6% in 2016 to 2.3% in 2017 and 2.6% in 2018.
- Consumer spending will be supported by solid gains in employment, real disposable incomes, and household net worth.
- Business fixed investment will benefit from an improving tax and regulatory environment, along with a recovery in energy prices.
- Foreign trade will remain a drag on real GDP growth, due to a strong dollar and sluggish expansions in some major export markets.
- Wage and price inflation will rise in 2017.
- The Federal Reserve will gradually raise the federal funds rate to an equilibrium level of 3% by the end of 2019.

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