

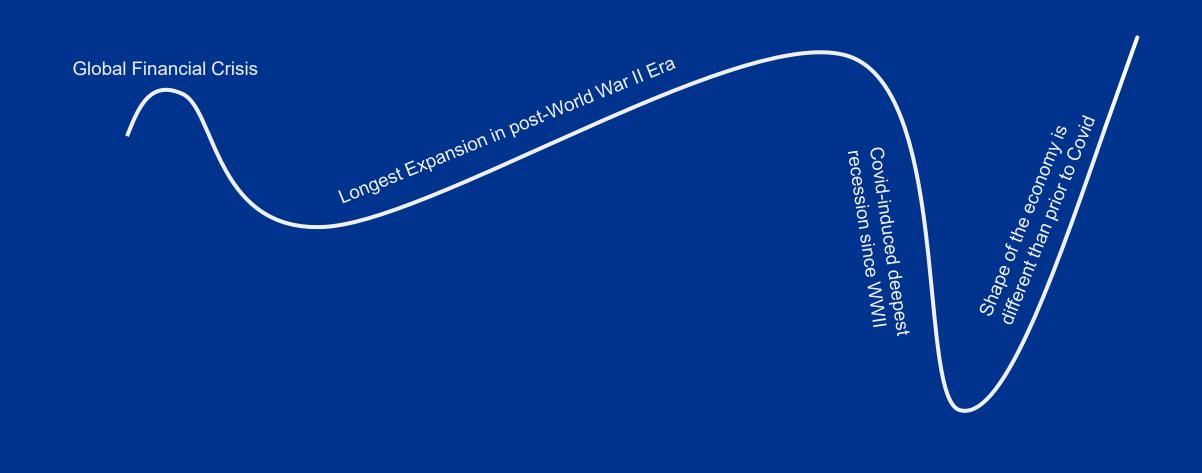
Shape Shifting: How the pandemic is changing the contours of the economy.

October 13, 2021 KPMG Economics

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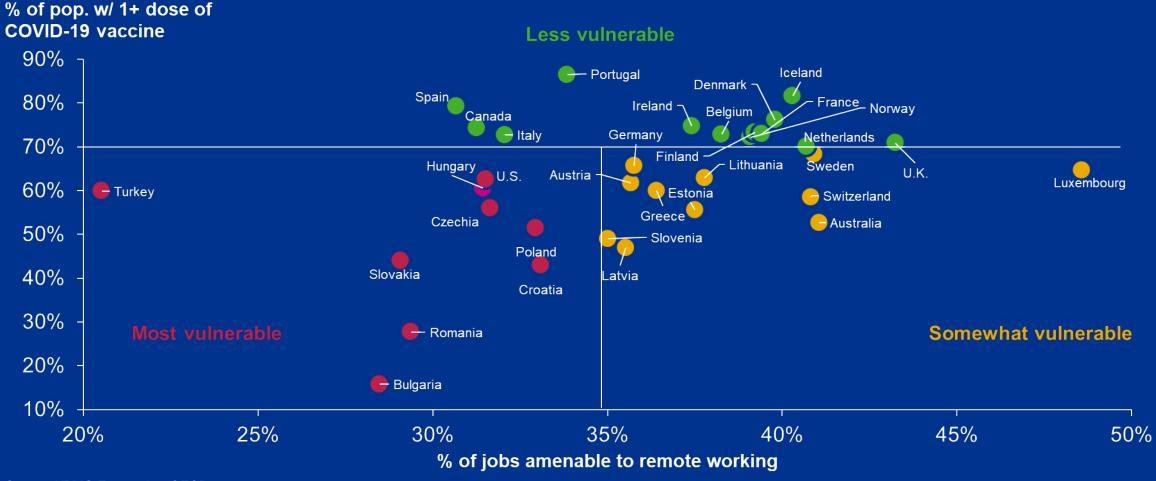
Covid has changed the shape of the economy



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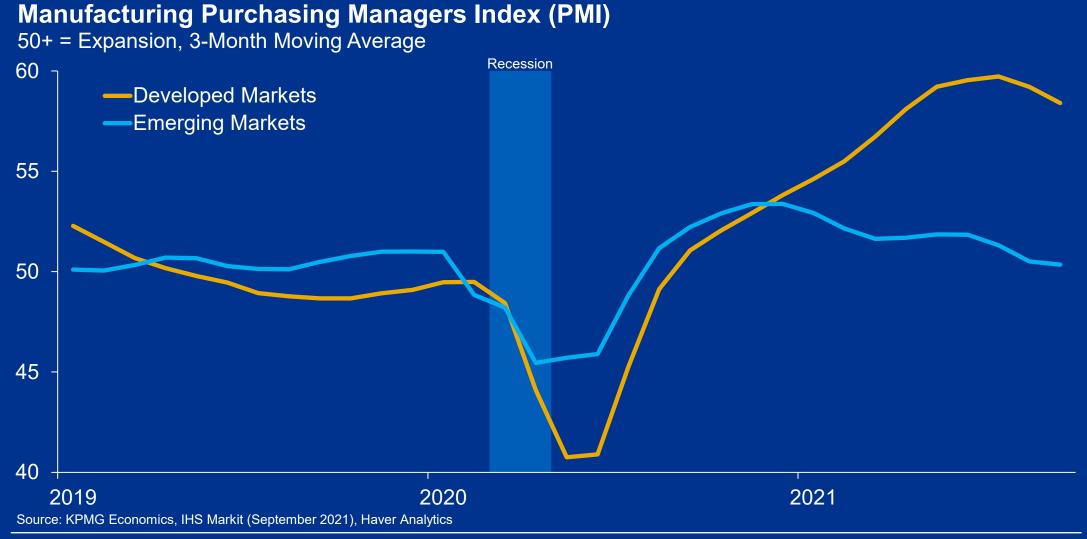
Countries with low WFH and low vaccination rates most vulnerable

Economic and health vulnerability correlated with WFH and Vaccination rates



Source: KPMG Economics, OECD

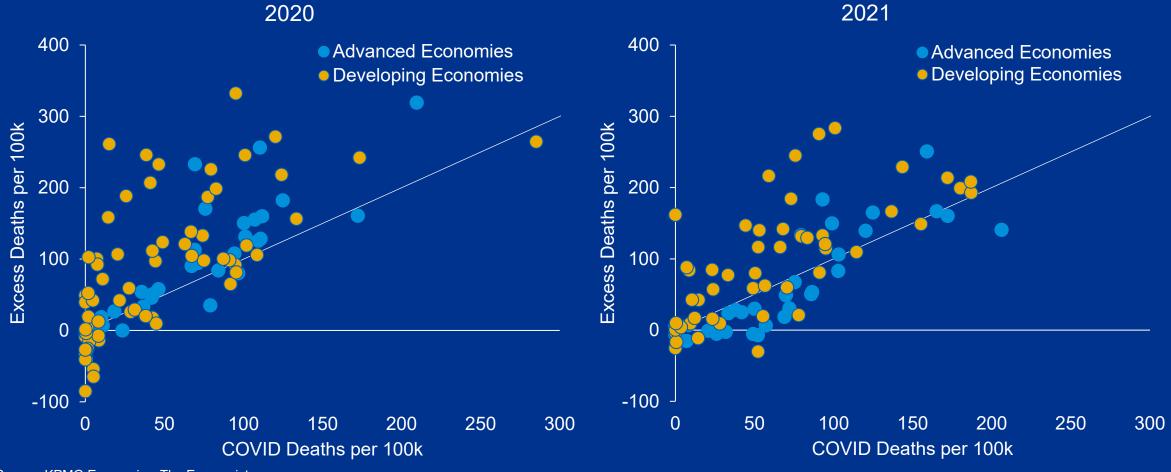
Emerging markets see greater toll from COVID



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Emerging economies see higher excess deaths, particularly in 2021

Excess Deaths vs. COVID Deaths



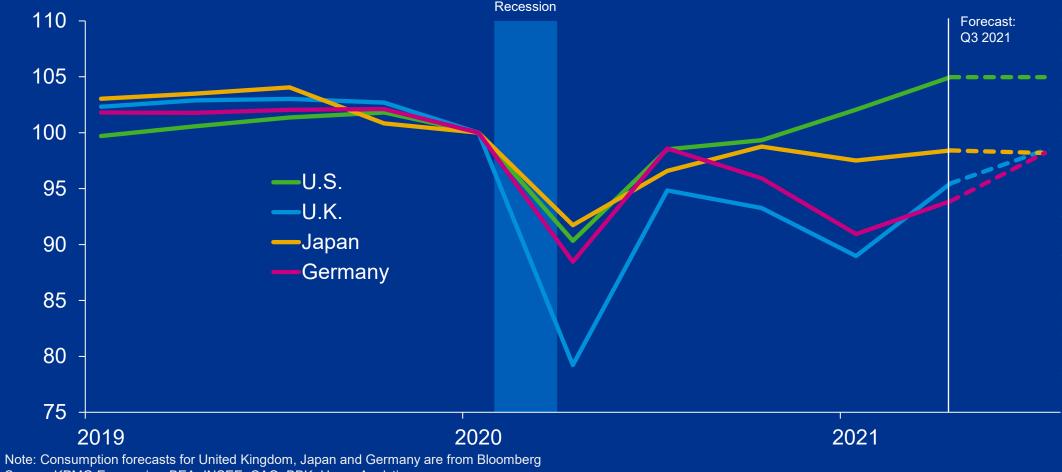
Source: KPMG Economics, The Economist



Delta slows Q3 consumption in impacted countries

Consumption Heavily Impacted by Path of Pandemic

Indexed to Q1-2020

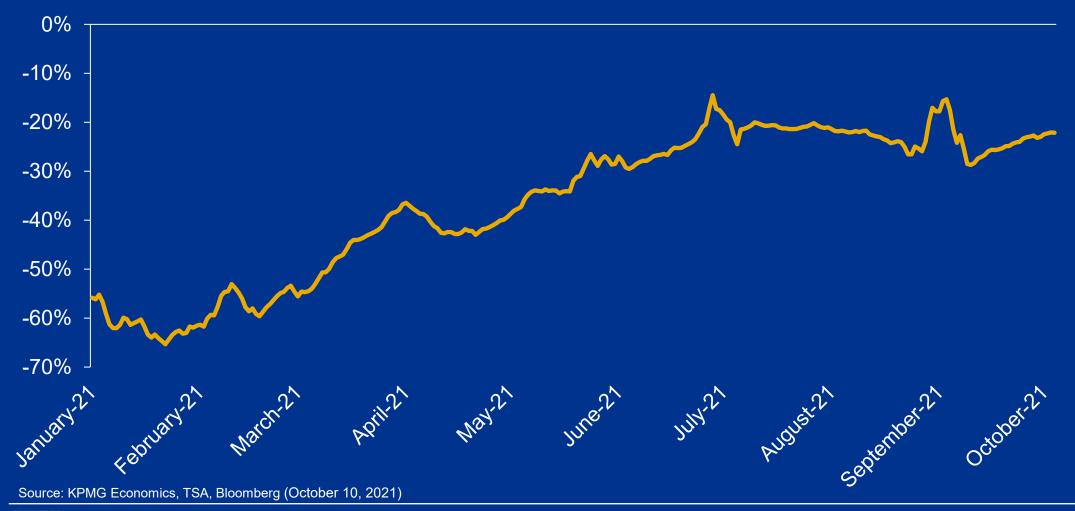


Source: KPMG Economics, BEA, INSEE, CAO, BBK, Haver Analytics



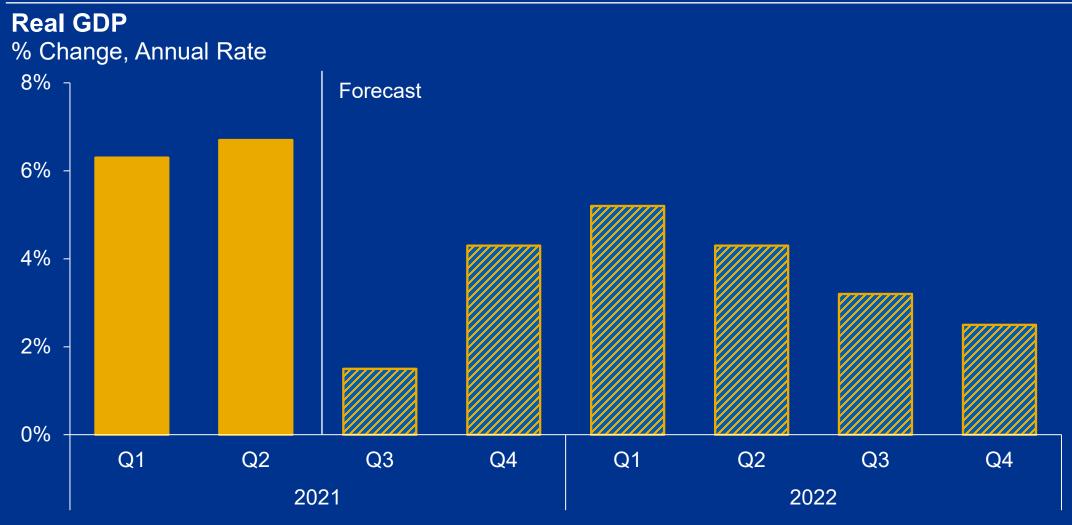
Air travel gives an early signal services consumption

2021 TSA Passenger Volume Versus 2019 Volume





Delta variant a speedbump in the pace of the recovery



Source: KPMG Economics, Bureau of Economic Analysis, Macroeconomic Advisors by IHS



Q3 GDP forecasts came down as Delta took hold

Real GDP Forecasts – Q3 2021

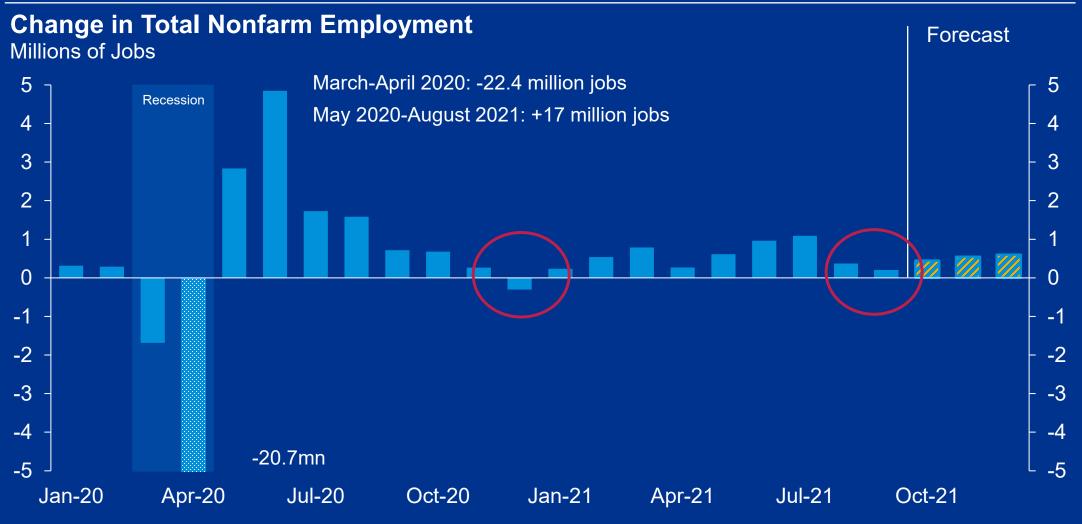
10% 10% Pre-Delta August & September 7.9% 8% 8% 7.0% 6.1% 6% 6% 4.8% 4.2% 3.8% 4% 4% 1.7% 2% 2% 1.3% 0% 0% WSJ **KPMG - July** NY Fed GDP KPMG -NY Fed GDP Atlanta Fed Bloomberg Atlanta Fed Economist NowCast -GDPNow -2021 Economist NowCast -GDPNow -September Survey - July 2021 July 2021 July 2021 Survey -September October 2021 2021 August 2021 2021

Q3 2021 GDP Forecast (% Change, SAAR)

Source: KPMG Economics, WSJ, Bloomberg, Federal Reserve Bank of New York, Federal Reserve Bank of Atlanta, Macroeconomic Advisors by IHS



Jobs growth to reaccelerate as Delta recedes

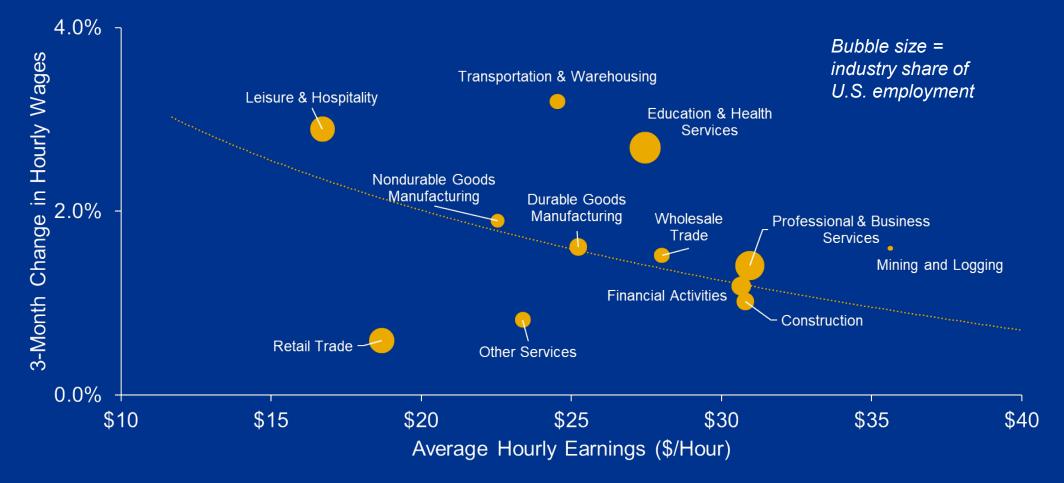


Source: KPMG Economics, BLS (September 2021), Haver Analytics



Lower paid workers see the greatest average wage growth

Industry Wage Growth and Wage Level



Source: KPMG Economics, Bureau of Labor Statistics (September 2021), Haver Analytics

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Labor force changes shape as work force becomes more educated

Working-age population (20-64) growth by education group

5-year % change



Source: KPMG Economics, The Conference Board, US Census Bureau, IPUMS-ACS, University of Minnesota



Fastest growing jobs concentrated in healthcare and STEM

Bureau of Labor Statistics Employment Projections 2020-30

Excluding Pandemic Recovery

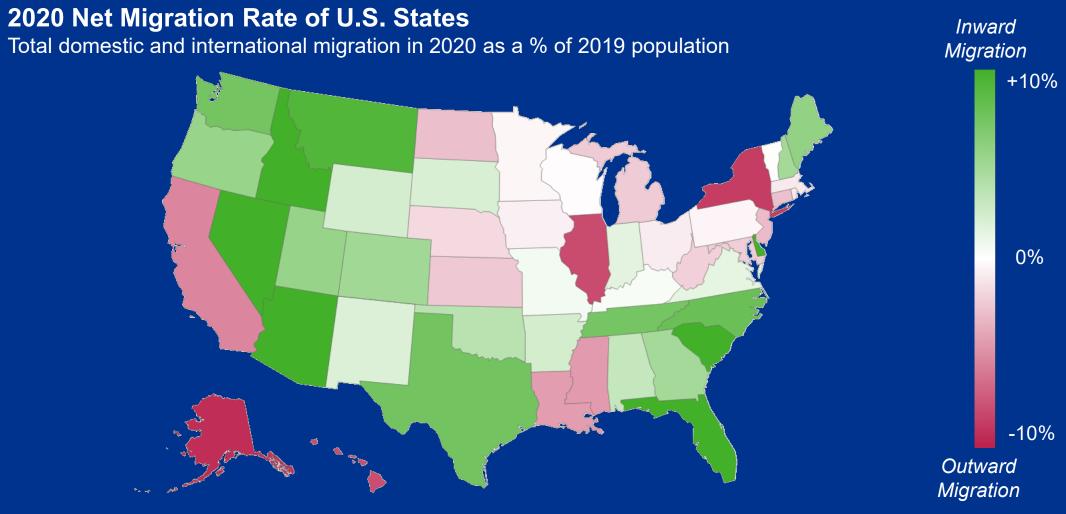
Top 10 fastest growing occupations	Percent change, projected 2020-30	Employment change, projected 2020- 30 (in thousands)	Median annual wages, May 2020
Wind turbine service technicians	68.2%	4.7	\$56,230
Nurse practitioners	52.2%	114.9	\$111,680
Solar photovoltaic installers	52.1%	6.1	\$46,470
Statisticians	35.4%	14.9	\$92,270
Physical therapist assistants	35.4%	33.2	\$59,770
Information security analysts	33.3%	47.1	\$103,590
Home health and personal care aides	32.6%	1129.9	\$27,080
Medical and health services managers	32.5%	139.6	\$104,260
Data scientists and mathematical	31.4%	19.8	\$98,230
Physician assistants	31.0%	40.1	\$115,390

Source: KPMG Economics, Bureau of Labor Statistics

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Shifts out of urban areas drove changing demand for goods



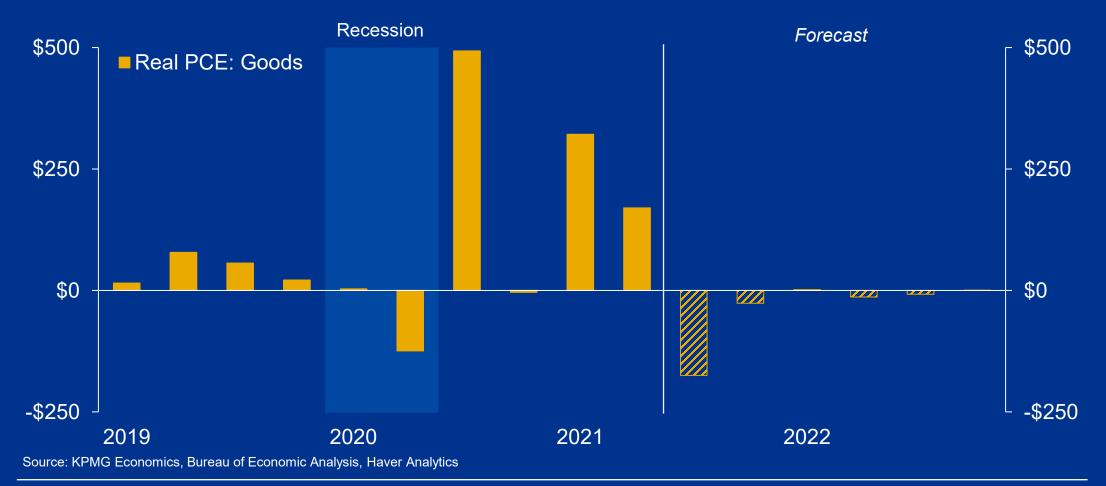
Source: KPMG Economics, U.S. Census Bureau, Haver Analytics



Goods consumption will not continue at the H1 pace

Goods Consumption Boom Had Knock-on Effects

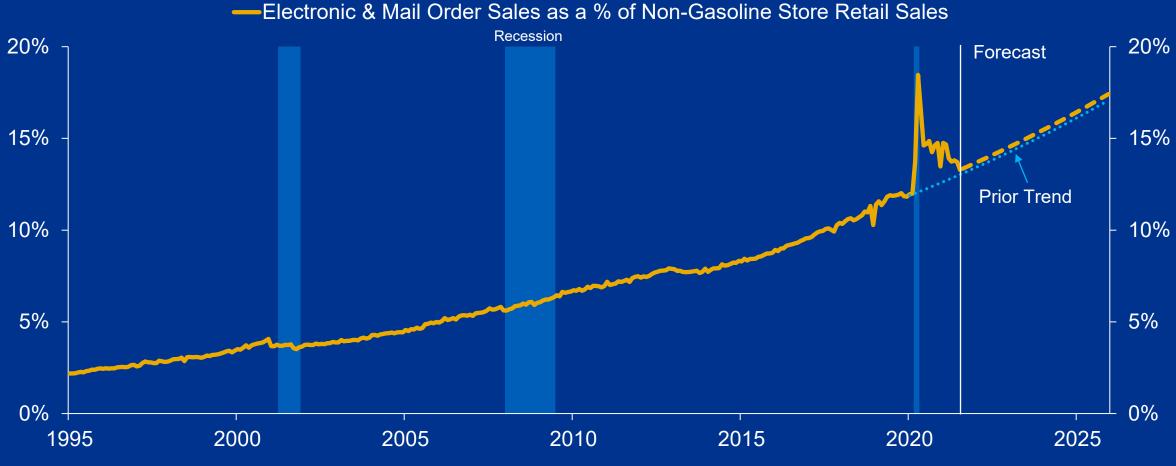
Change in Real PCE Expenditures: Goods, Billions of 2012 Dollars



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Online sales likely to map to the pre-Covid trend

E-Commerce as a Share of Retail Sales

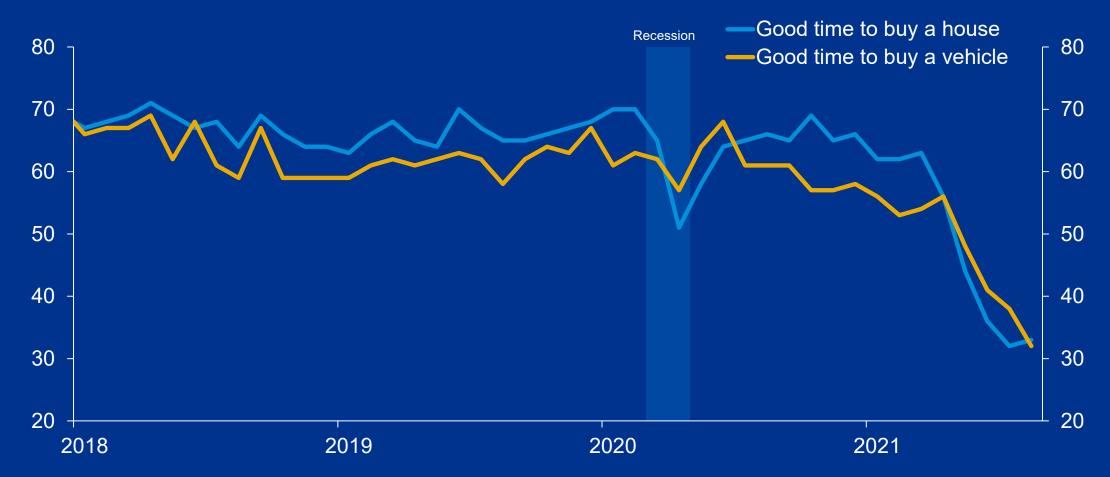


Source: KPMG Economics, Census Bureau (July 2021), Haver Analytics

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Consumer appetite for goods consumption wanes

Rising Pessimism for Large Purchases

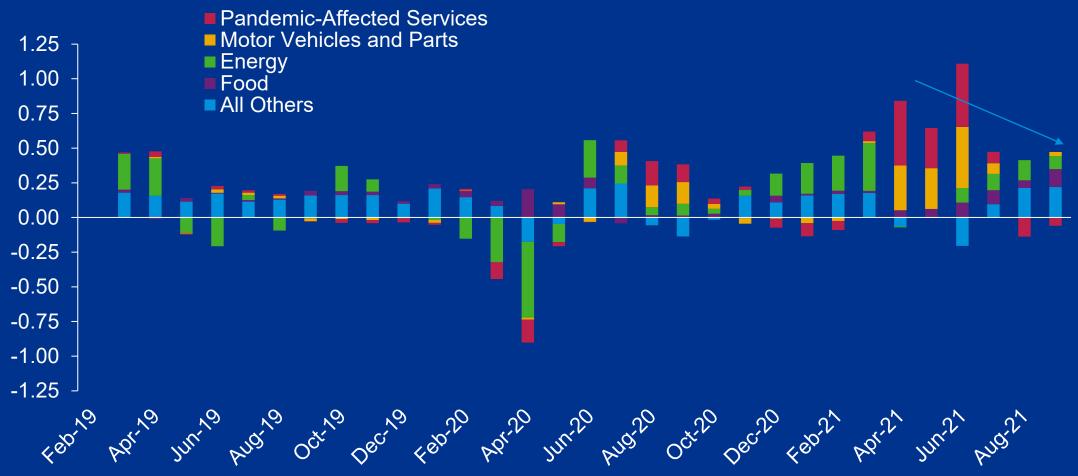


Source: KPMG Economics, University of Michigan (August 2021), Haver Analytics



Pandemic-related inflation pressures abate for now

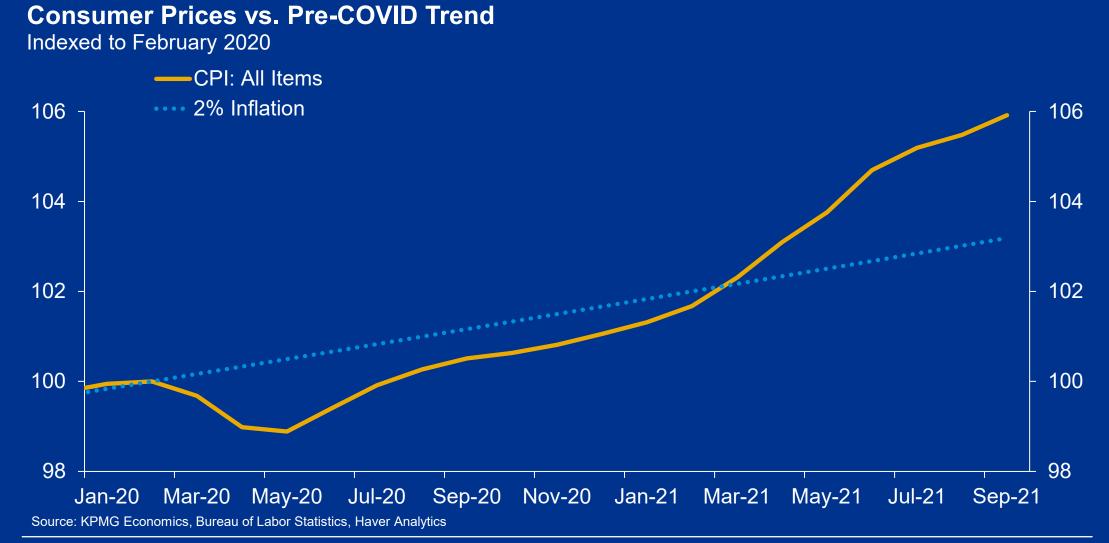
Contributions to Month-Over-Month CPI Growth



Source: KPMG Economics, Bureau of Labor Statistics, Council of Economic Advisors, Haver Analytics



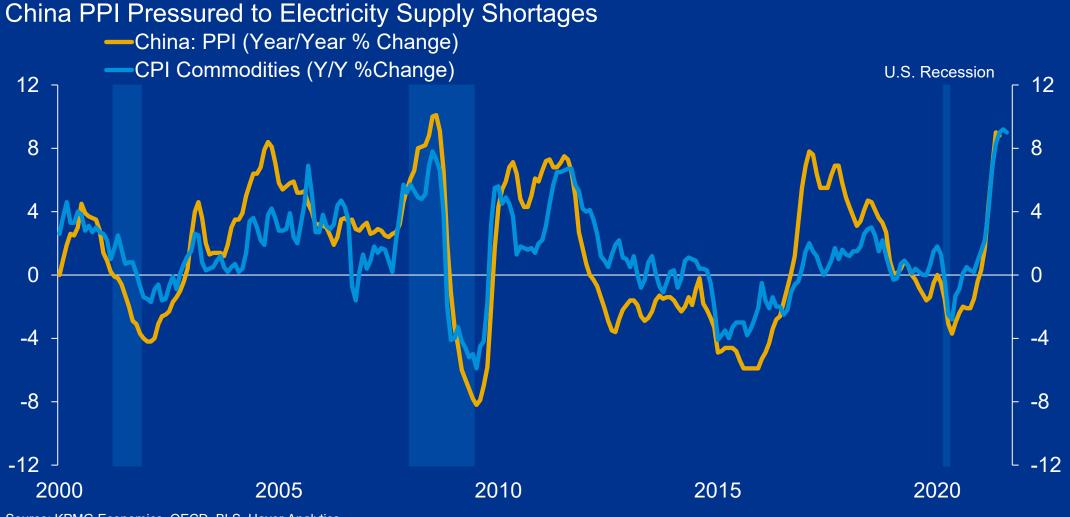
Prices have more than made up for pandemic slump



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China PPI has influences U.S. commodity prices

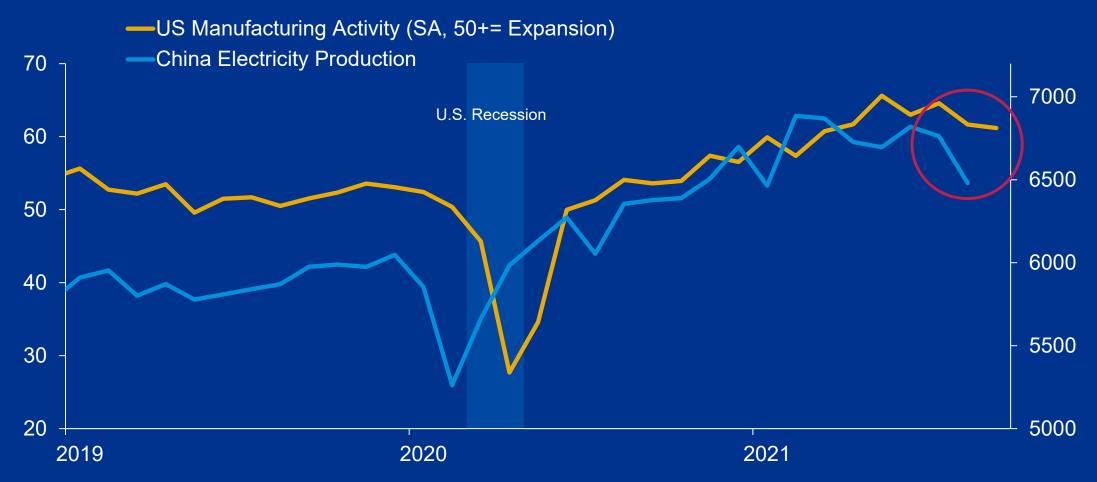


Source: KPMG Economics, OECD, BLS, Haver Analytics



Fall in Chinese electricity production to weigh on U.S. supply

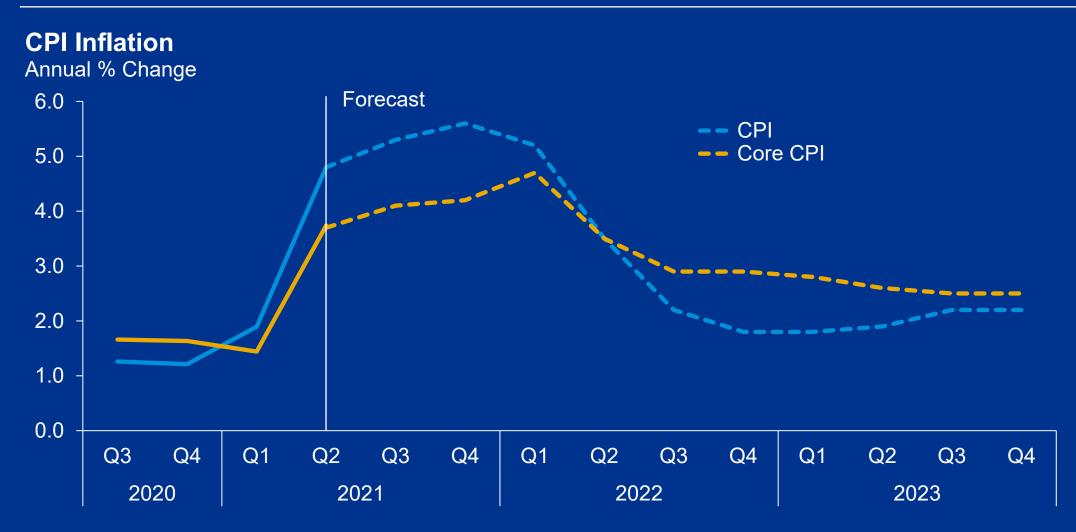
China Electricity Production and U.S. Manufacturing Demand



Source: KPMG Economics, IHSM, CNBS, Haver Analytics



CPI to remain above 2.0% through 2023 with upside risks



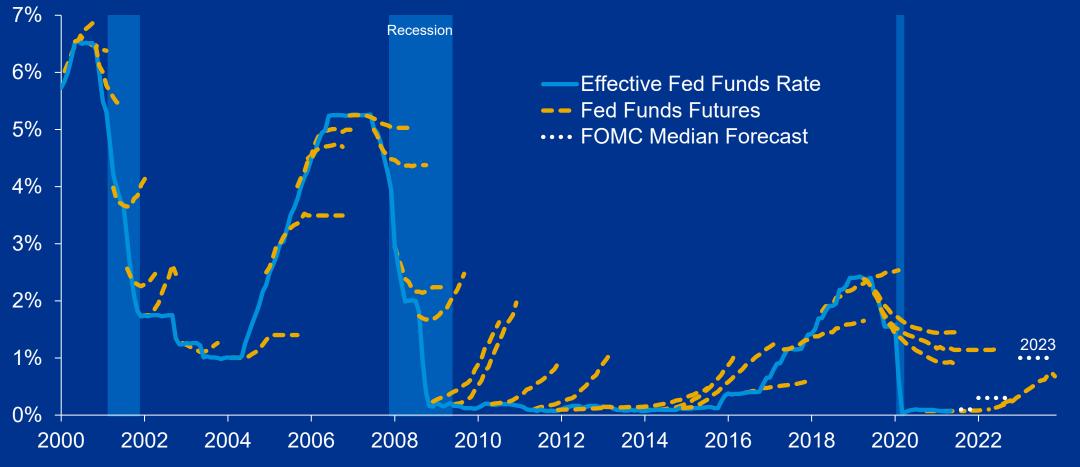
Source: KPMG Economics, Bureau of Labor Statistics, Haver Analytics



However Federal Reserve not taking chances on runaway inflation

Fed Funds Futures Paths

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Source: KPMG Economics, Federal Reserve Board, Bloomberg (October 11, 2021)

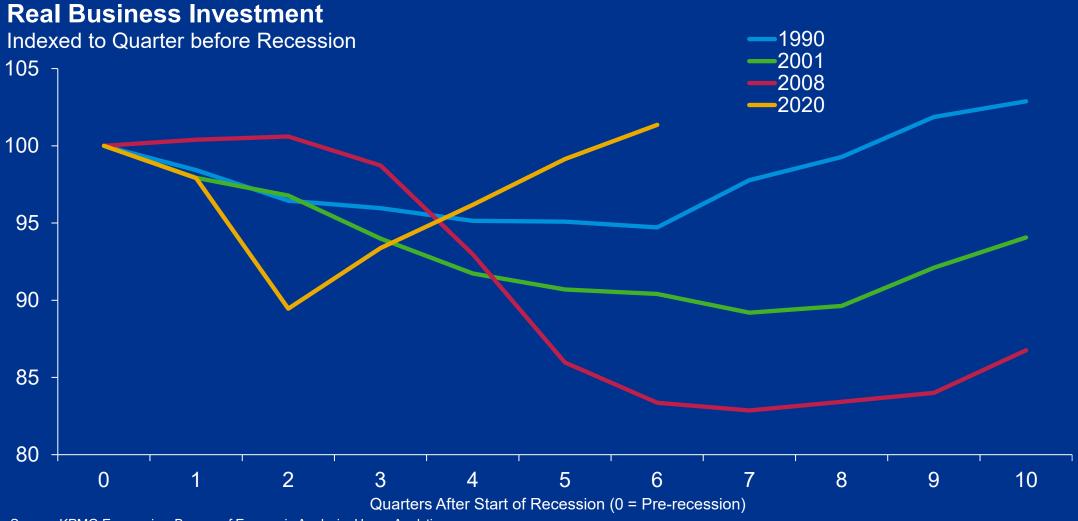
GDP to slow into 2023 but still grows above trend



Source: KPMG Economics, Bureau of Economic Analysis, Haver Analytics



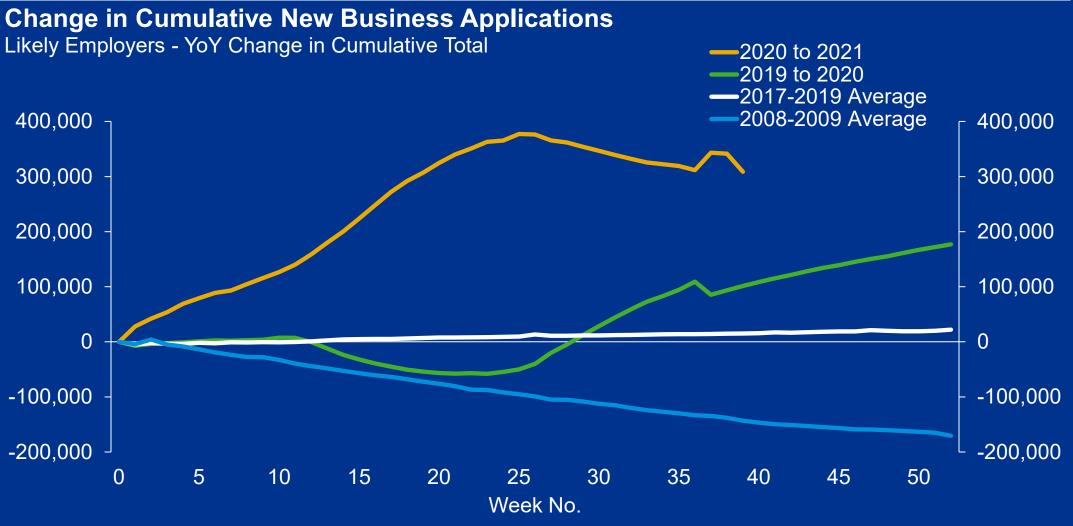
The shock of the pandemic turbo charged capex



Source: KPMG Economics, Bureau of Economic Analysis, Haver Analytics

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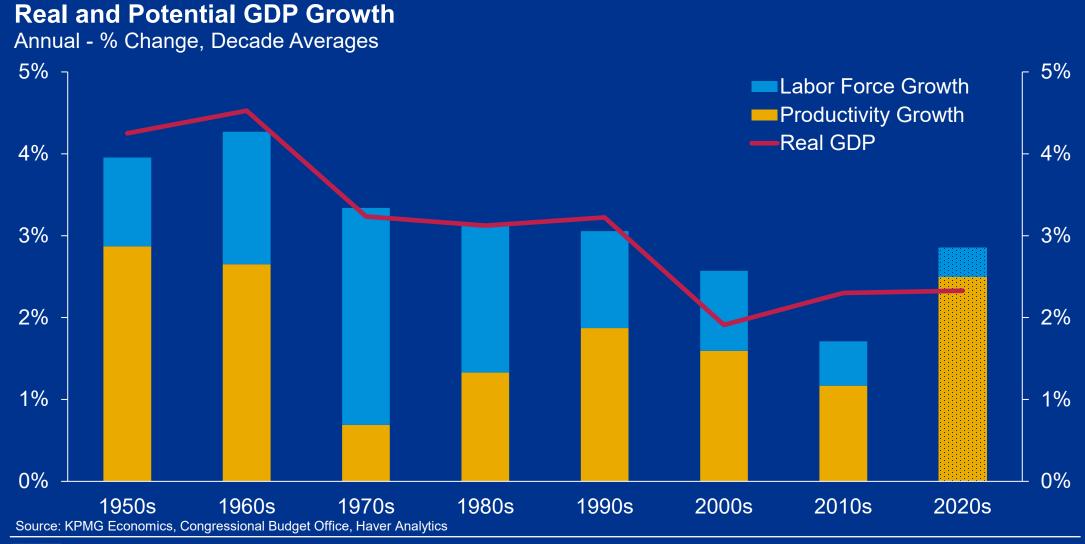
Business formation rebound encouraging sign for productivity



Source: KPMG Economics, U.S. Census Bureau

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If higher productivity is durable, higher growth is possible







Thank you

For more information, please see KPMG's COVID-19 resource page: https://www.kpmg.us/insights/2020/COVID-19-resilience-readiness.html



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