





#### **ABOUT OXFORD ECONOMICS**

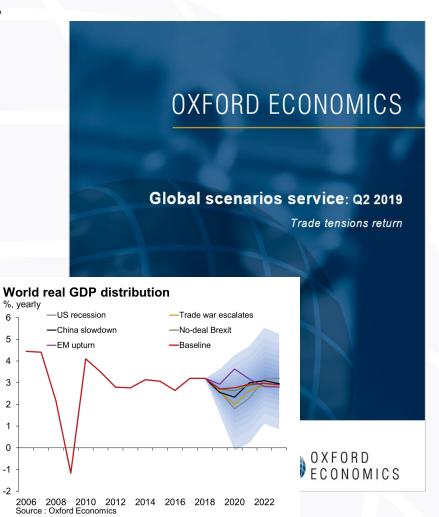
- Oxford Economics is a world leader in global forecasting and quantitative analysis. Our worldwide client base comprises over 1,500 international corporations, financial institutions, government organisations, and universities.
- Founded in 1981 as a commercial venture with Oxford University's business college, Oxford Economics is now a leading independent economic consultancy.
- Headquartered in Oxford, with offices around the world, we employ over 300 people, including 200 economists.
- Our best-of-class global economic and industry models and analytical tools give us an unparalleled ability to forecast external market trends and assess their economic, social and business impact.





#### **GLOBAL SCENARIO SERVICE**

- Our quarterly Global Scenario Service provides timely updates on the outlook to global risks and alternative scenarios.
- Global Risk Survey informs choice of scenarios.
- Scenarios Quantified using the Oxford Global Economic Model.





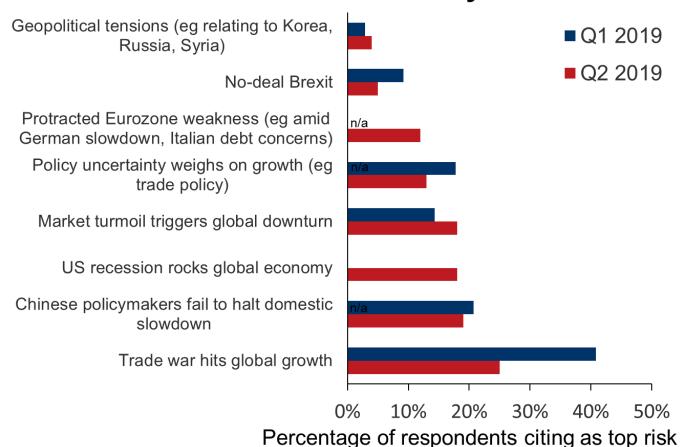
#### DRIVERS BEHIND THE MODEL

- The Oxford model is an eclectic model designed to capture the key relationships in the global economy.
  - Keynesian in the short run
  - Neo-classical in the long run
- In the short run, shocks to demand will generate economic cycles that can be influenced by fiscal and monetary policy.
- But over the long-run, output is determined by supply side factors: investment, demographics, labour supply, and productivity.



## Trade war dominates...with the US an emerging concern

# What do you see as the top 3 downside global economic risks over the next two years?



Source : Oxford Economics Global Risk Survey



## Q2 2019 GSS scenarios

- 1. US recession
- 2. Trade war escalation
- 3. China slowdown
- 4. No-deal Brexit
- 5. EM upturn as trade war fears fade

Scenarios quantified using the Oxford Global Economic Model





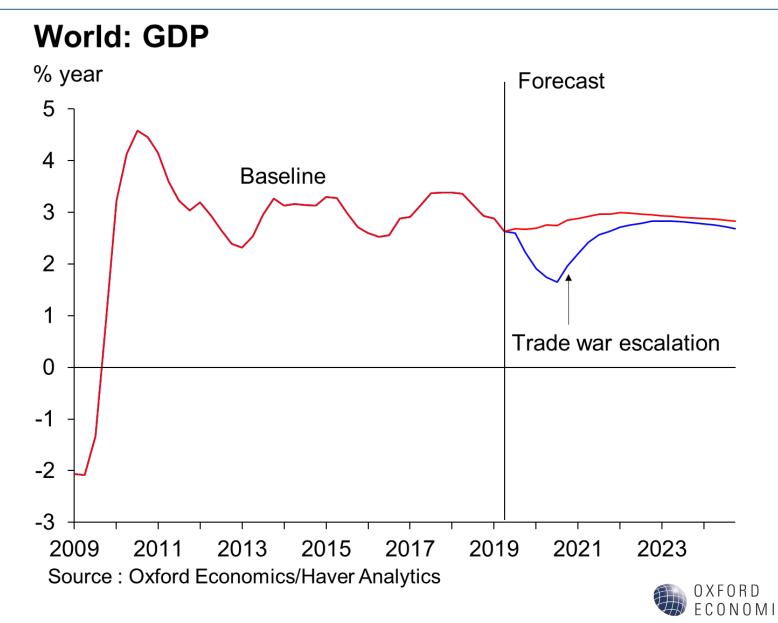


### Trade War Escalation – scenario outline

- Trade tensions escalate dramatically on 4 fronts
  The US imposes:
- (i) 25% tariffs on goods imports from China
- (ii) 25% tariffs on goods imports from Mexico
- (iii) 25% tariffs on goods imports from the global auto sector
- (iv) 10% tariffs on goods imports from the EU
- In each case, trading partners retaliate in kind
- Financial markets react immediately: equities fall back sharply; advanced economy bond yields are compressed but EM risk premia rise; and the US dollar appreciates across most currencies

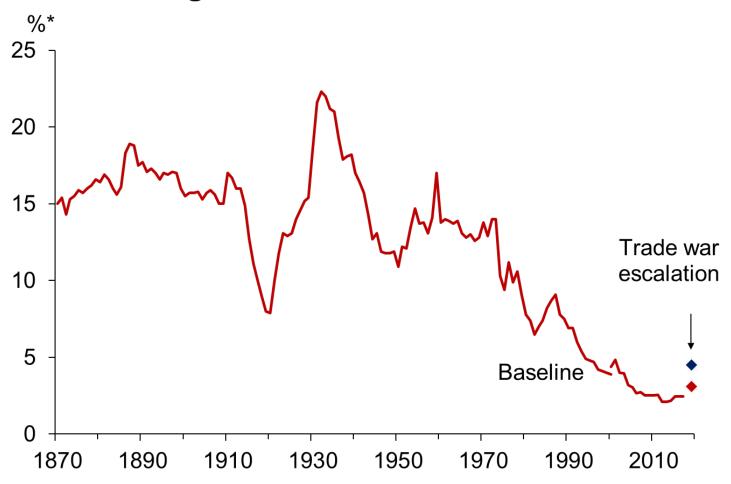


# Global growth slows sharply...



# ...in response to the substantial rise in tariffs

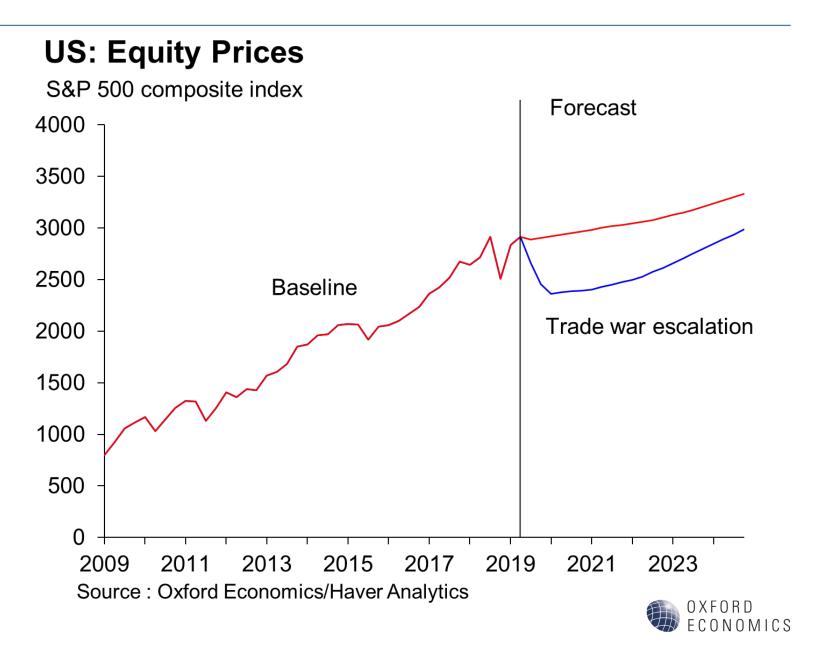
## World average tariff rate



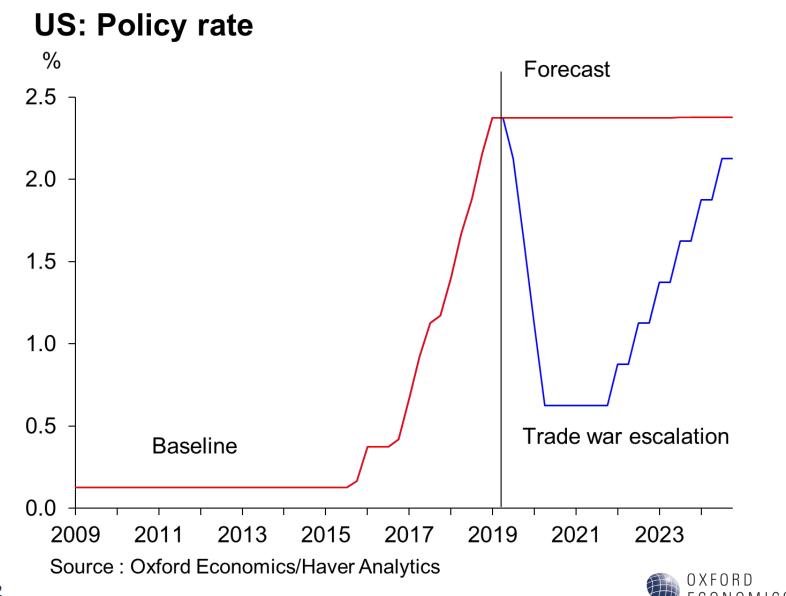
Source: Oxford Economics/Coatsworth & Williamson/World Bank \*21st c. data from World Bank; historical data from Coatsworth & Williamson (2002).



## ...and the deterioration in market sentiment

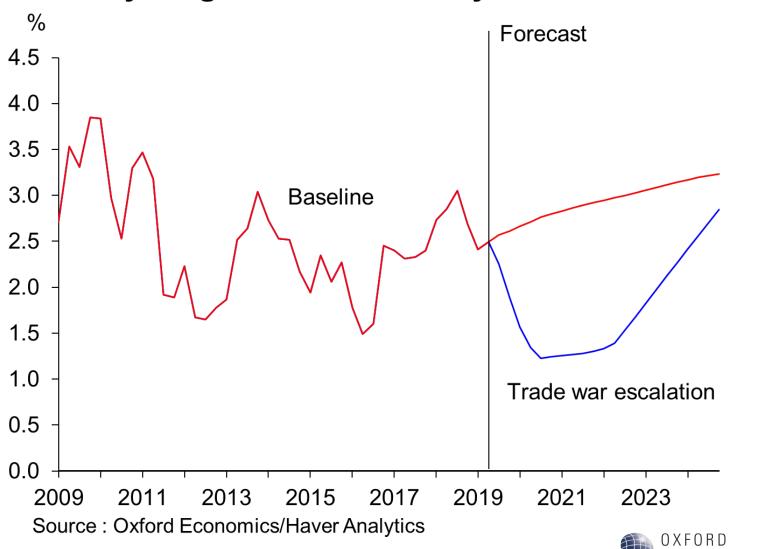


# ...despite the Fed's aggressive reaction



## ...which drives a dramatic fall in Treasury yields

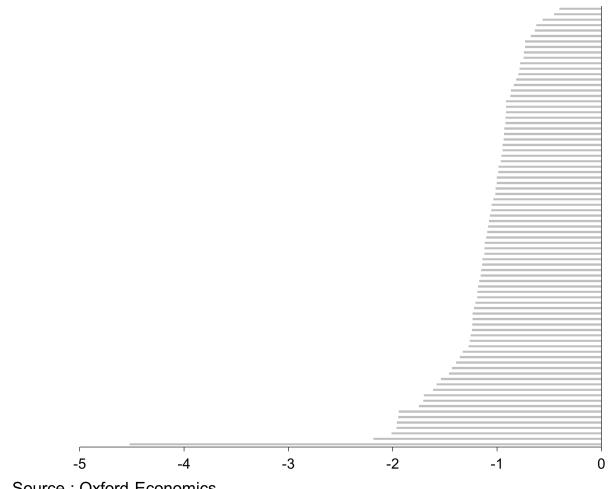




## **Trade War Escalation- scenario results**

#### Impact on GDP

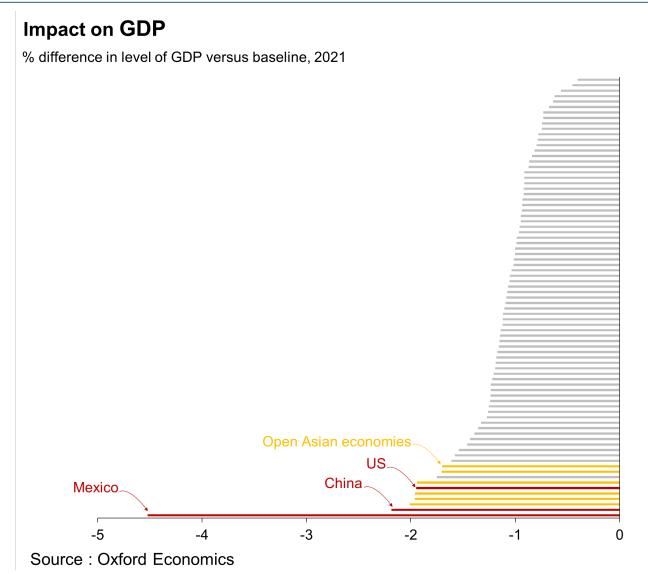
% difference in level of GDP versus baseline, 2021



Source: Oxford Economics



## **Trade War Escalation—scenario results**







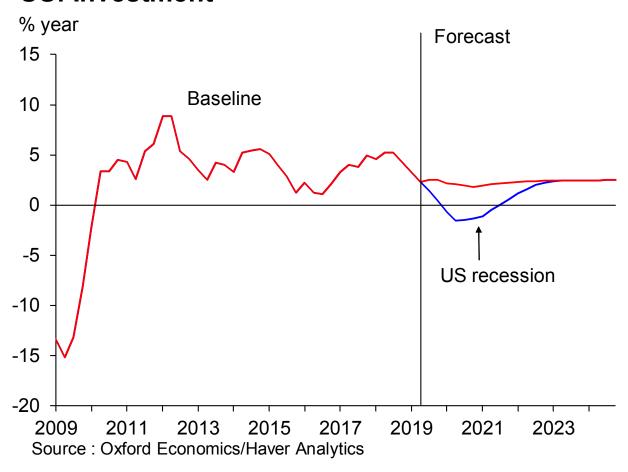
#### **US Recession – scenario outline**

- Domestic developments trigger a deterioration in the late-cycle US economy
- Corporate profits weaken, with Q3 earnings reports surprising to the downside
- Business and household confidence are shaken
- Investor sentiment deteriorates, with US equities dropping by around 30%
- Within a year, the US economy has fallen into recession
- Global spill overs, particularly to vulnerable EMs



# US businesses delay investment as profits weaken...

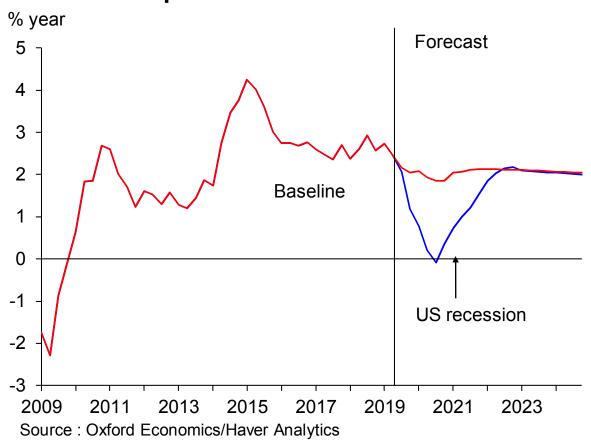
#### **US: Investment**





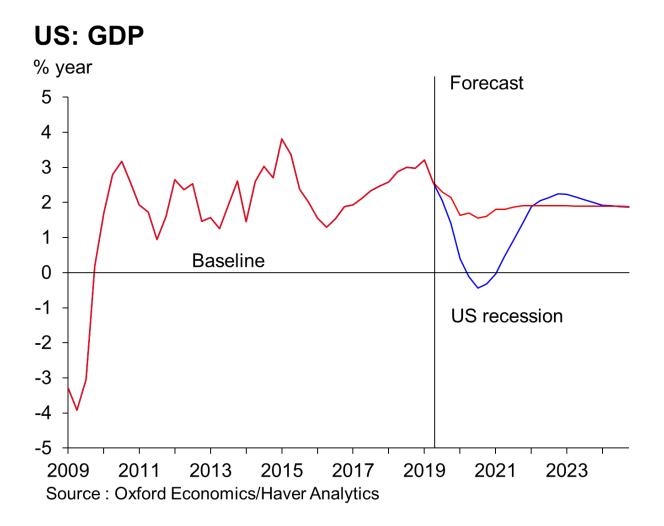
# ...and weaker confidence hits consumer spending

## **US: Consumption**





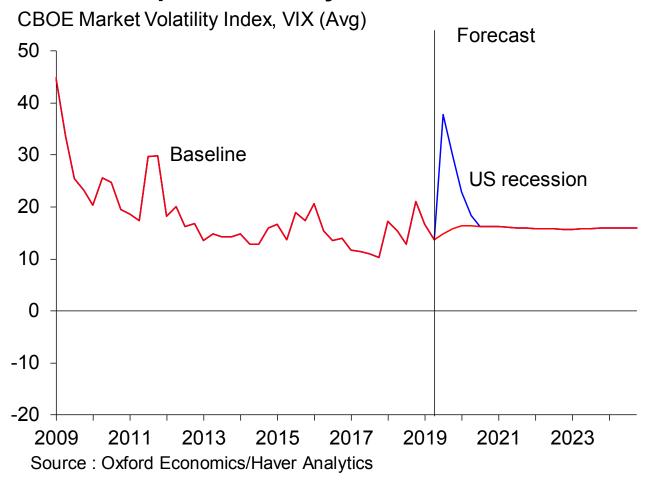
# The US falls into recession within a year...





# ...triggering spike in financial market volatility

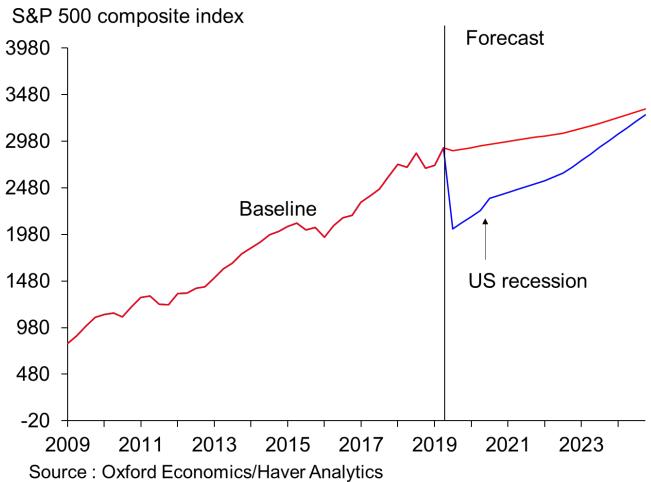
## **US: VIX implied volatility**





#### ...as investor sentiment deteriorates

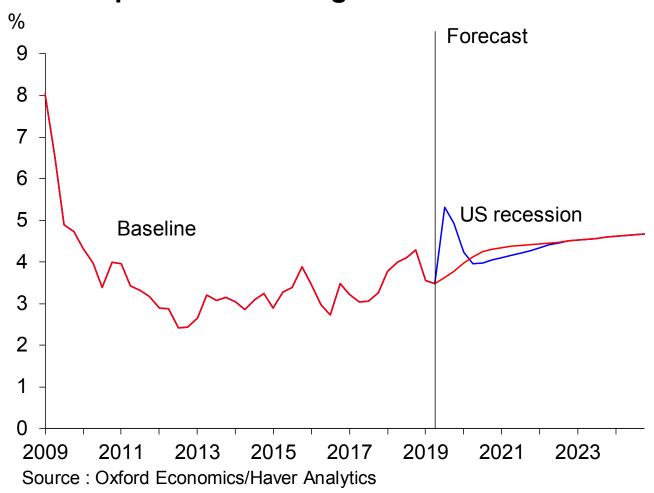
# **US: Equity prices**





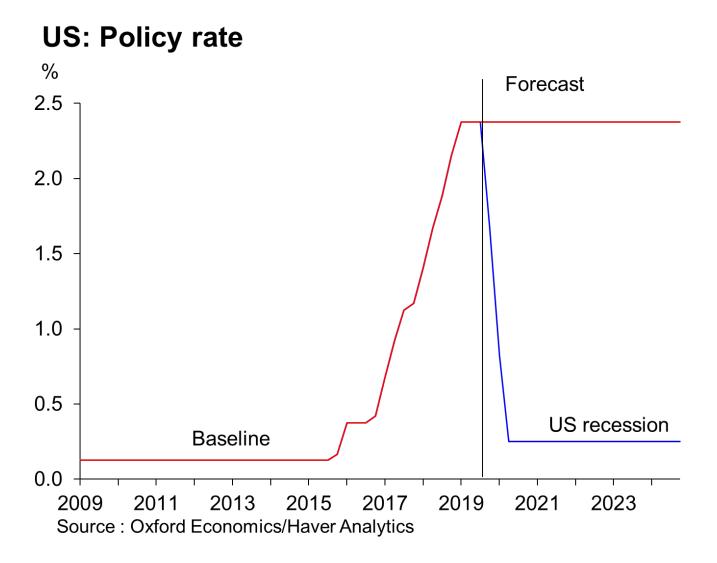
# ...and corporate spreads widen

## **US:** Corporate borrowing rate





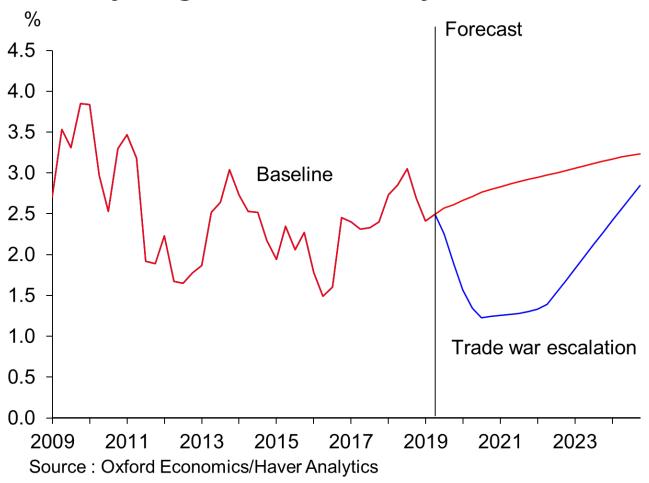
## Rates effectively return to the zero lower bound...





# ...which drives a dramatic fall in Treasury yields

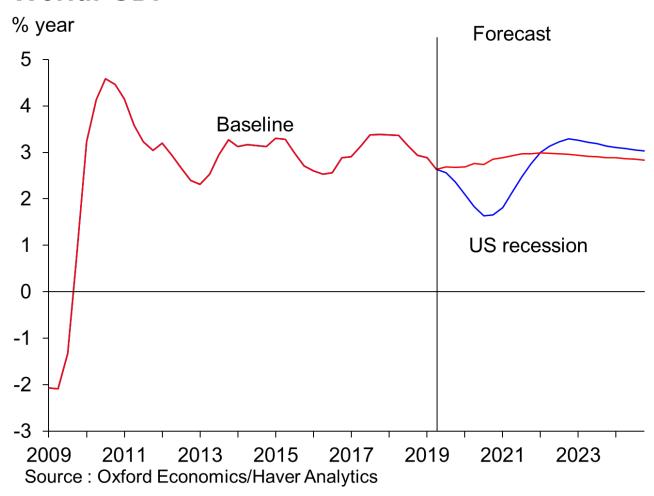
## **US: 10-year government bond yields**





# The US shock spills over globally...

#### World: GDP

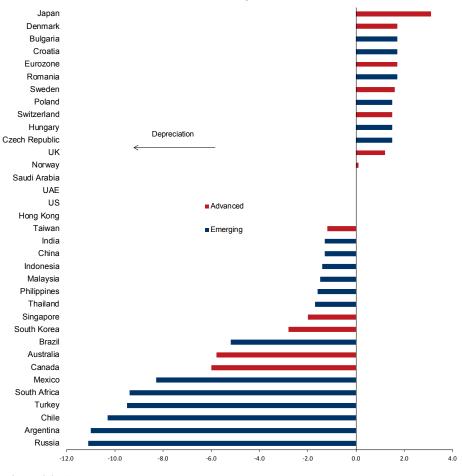




# ...with vulnerable EM exchange rates depreciating

#### World: US dollar exchange rates - US recession







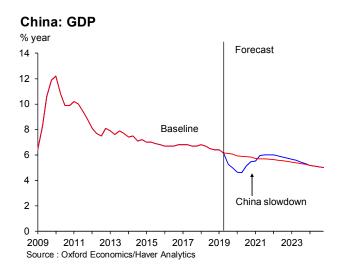


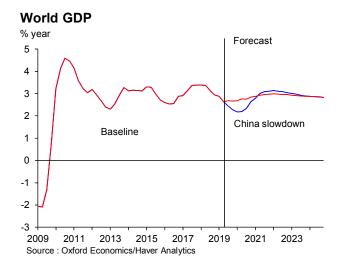




# China Slowdown – key impacts

- Global GDP growth falls to 2.6% in 2019 and 2.3% in 2020 (compared with 2.7% and 2.8% in the baseline).
- Most affected:
  - (i) China
  - (ii) Open Asian economies
  - (iii) Commodity exporters
- At the global level, weaker activity and subdued commodity prices cause inflationary pressures to weaken considerably
  - Oil prices fall to around \$45/brl by 2020





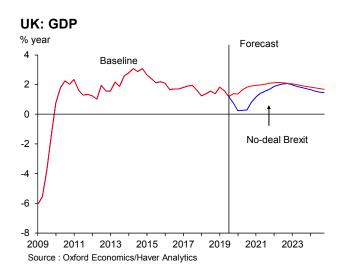


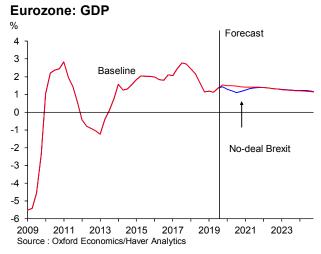




## No Deal Brexit – key impacts

- Global GDP growth barely affected!
- Most affected:
  - (i) UK (1.7% below baseline by end 2020)
  - (ii) Ireland (1% below baseline by end 2020)
- Overall impact on eurozone growth is relatively limited
  - Eurozone GDP is just 0.4% below baseline by the end of 2020







#### Conclusion

- Trade tensions remains the biggest concern for businesses, based on our latest risk survey – but a US recession is an emerging concern
- Our modelling suggests that:
  - Trade war escalation (with US measures v China, Mexico, EU and global auto sector) could take 1ppt off 2021 global growth
  - A US recession triggered by domestic developments could be similarly harmful for the global economy in the near term
  - Brexit presents risks mainly to the UK and Ireland, and to a lesser extent Europe
  - But upside risks remain we find that trade peace and looser policy in China could support a 0.9ppt boost to global growth





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