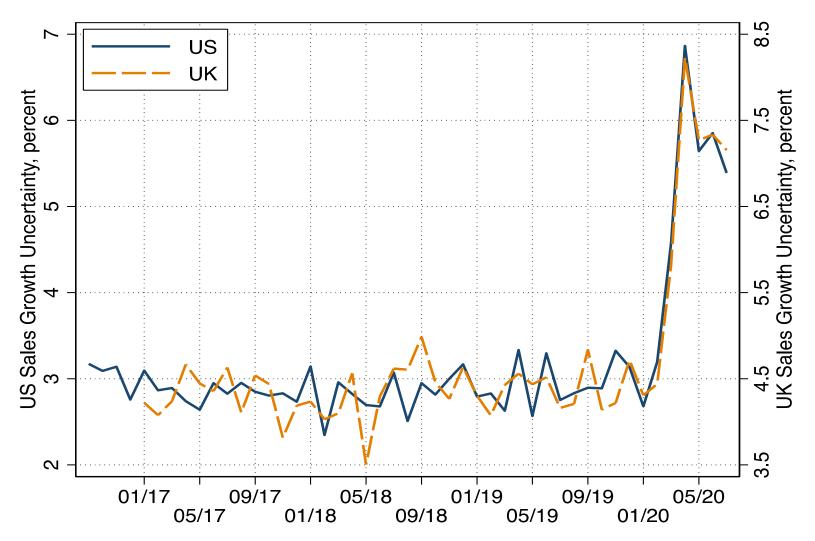
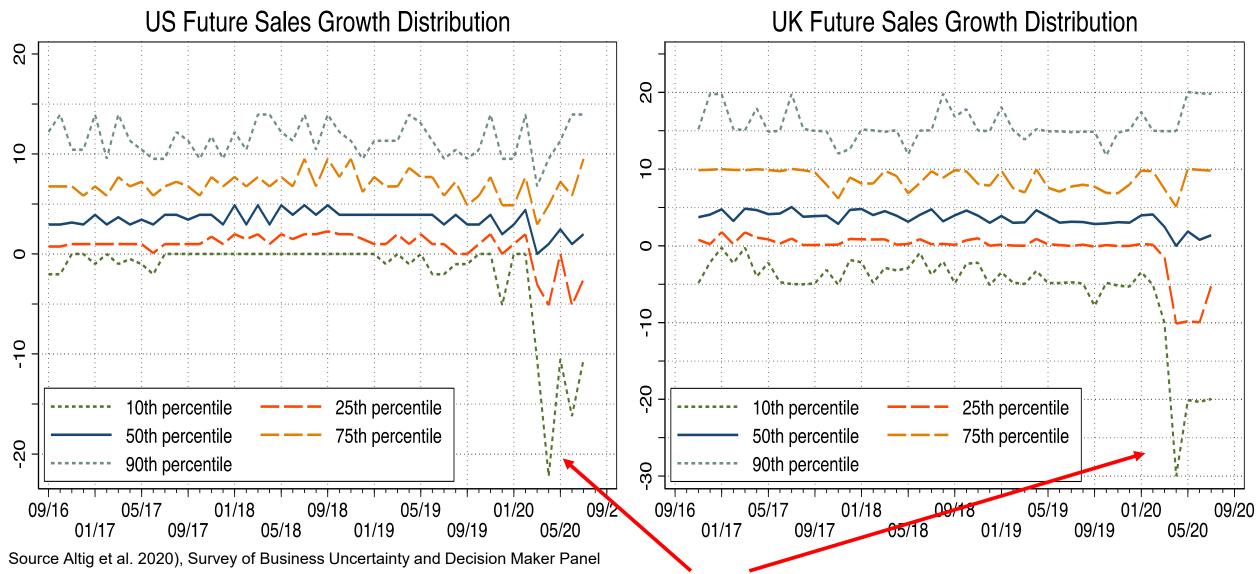
"Will Productivity and Growth Return After the COVID-19 Crisis?"

Paul Mizen University of Nottingham

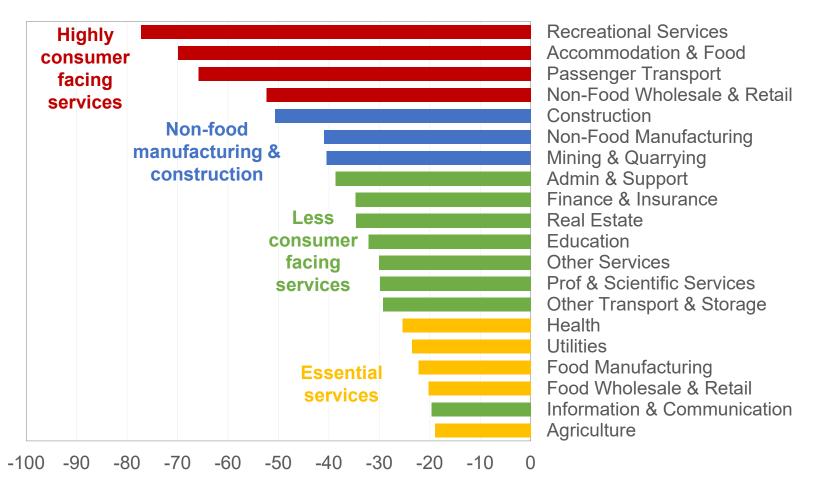
- UK (& US) Firm subjective sales uncertainty doubled due to COVID
- Covid-19 largest shock to hit the world economy for decades.
- Global effect, passed from East to West Jan 2020 – Mar 2020
- By second quarter it hit a peak.





This generated extensive downside tail-risk for UK & US firms

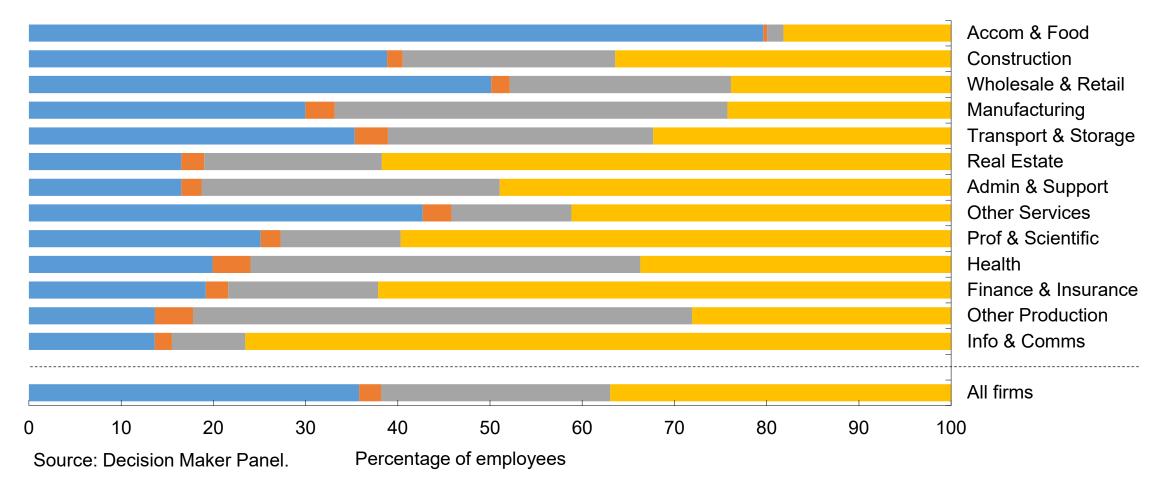
- Asymmetric effects across business sectors:
- hardest hit sectors had most social contact in consumption
- Least hit sectors were essential services



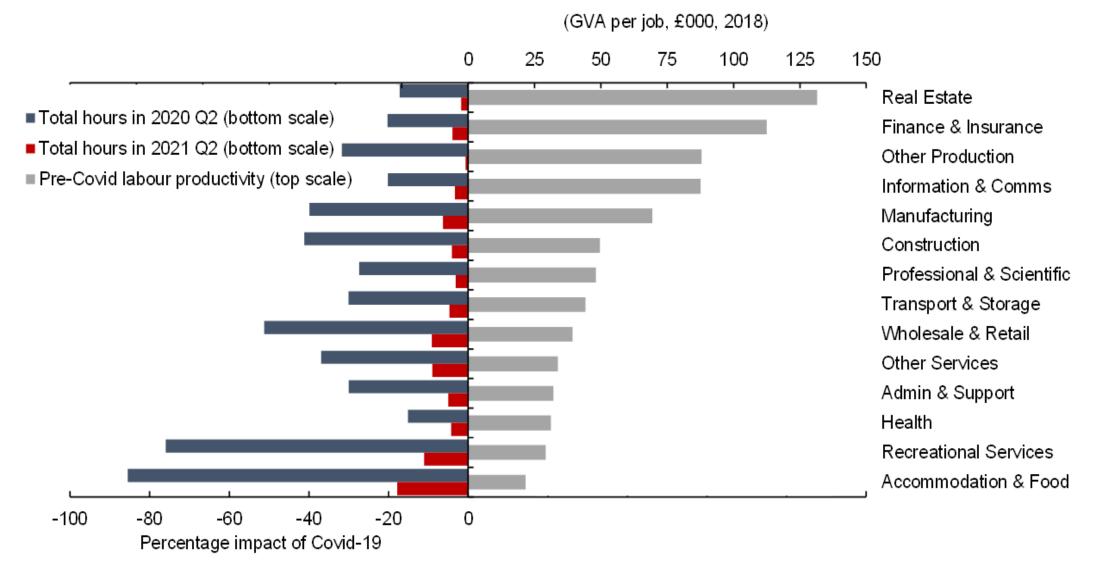
Source: Decision Maker Panel. Percentage impact of Covid-19 on sales in 2020 Q2

Impact of Covid-19 on UK employees, May 2020

Furloughed Unable to work (eg sick, self isolating) Working on business premises Working from home

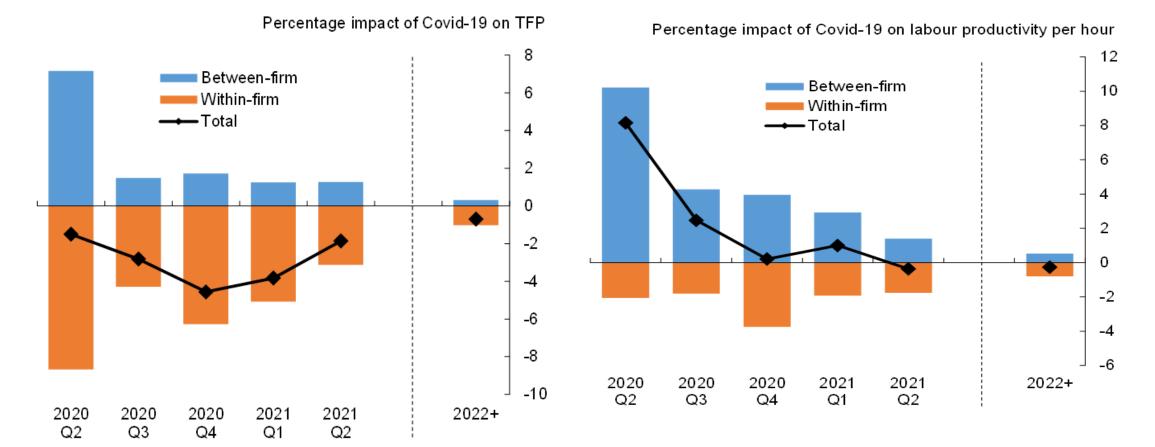


Firms in low productivity sectors recorded largest drop in hours worked



Source: Decision Maker Panel.

Impact on aggregate productivity growth

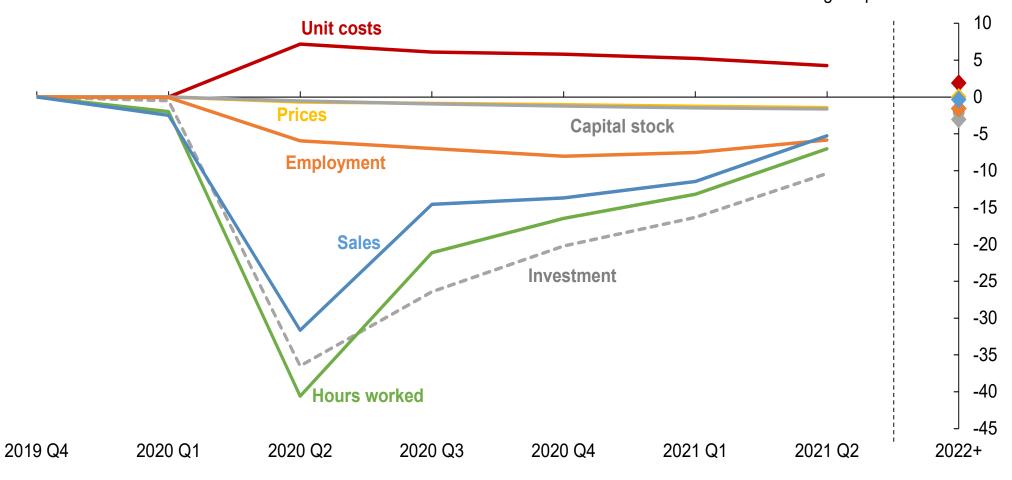


Source: Decision Maker Panel, Bloom et al (2020) NBER wp.

The within effect measures the contribution of changes in firm-level productivity for a given allocation of labour across firms, affected by new costs 7% – for PPE, screens etc., and the impact on costs from social distancing reducing capacity.

The between effect is the impact on total productivity of a reallocation of inputs towards firms with higher levels of productivity. Batting average effect.

Impact on costs, employment/hours and sales



Percentage impact of Covid-19

Source: Decision Maker Panel.

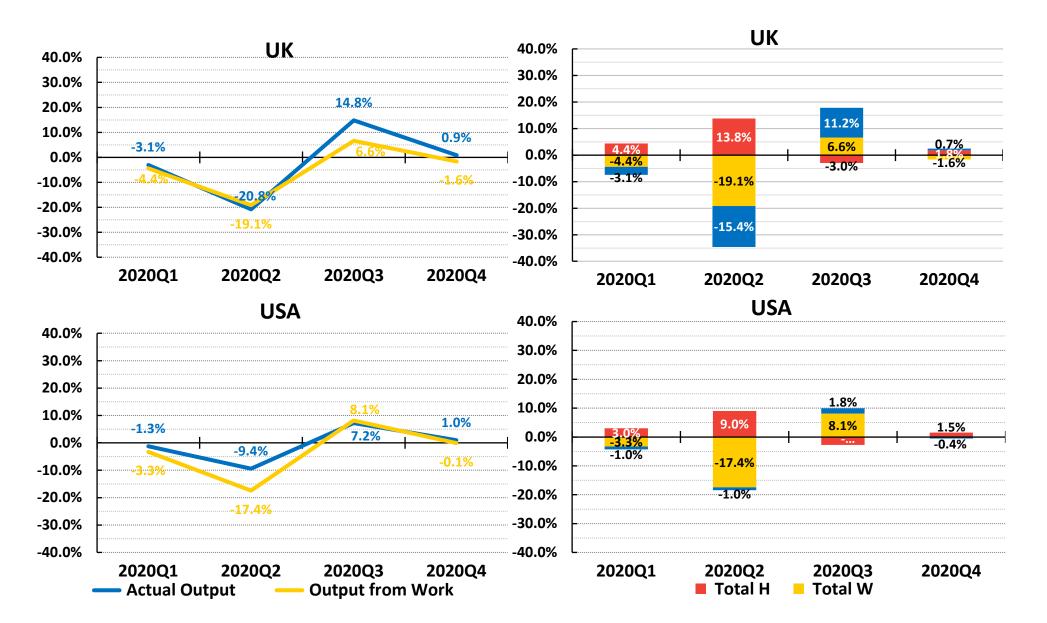
Potential Capital and WFH

- Awful as it has been, the historic collapse in output would have been <u>much worse</u>, were it not for *potential capital and WFH*
 - Potential capital = capital not utilized but made available by digital technology
 - Residential/dwellings repurposed for work use (like Uber and Airbnb)
 - And connected through the internet
- Work from home has been much-reported
 - In the UK, the number of employees reporting working from home rose from 14% (Q4 2019 and steady previously) to 35% in Q2.
 - The pandemic solved the 'collective action problem' we all had to work from home.
 - We learned how to work more productively as time went on.

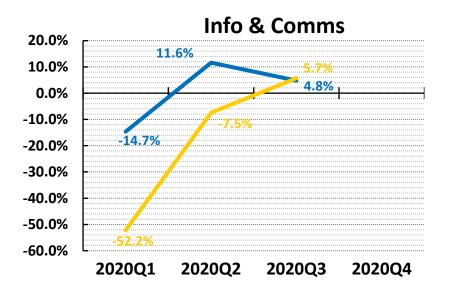


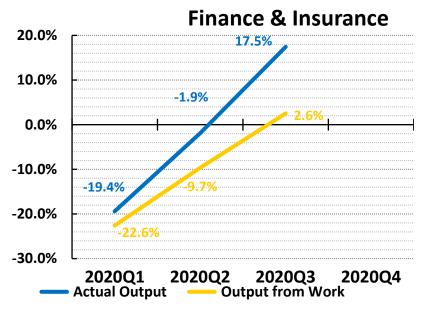


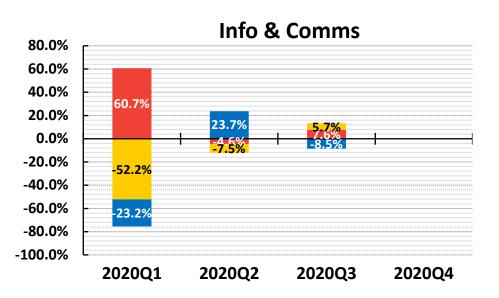
Potential Capital and WFH has changed things

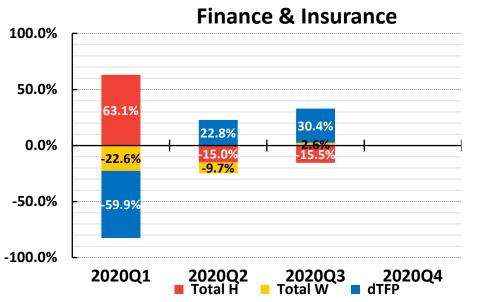


Winners - WFH - UK

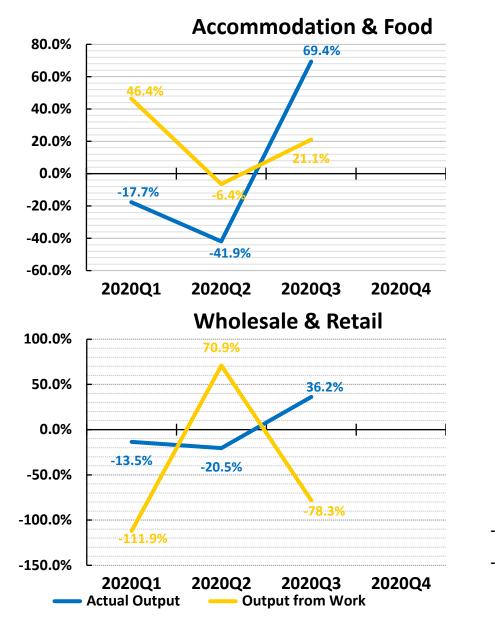






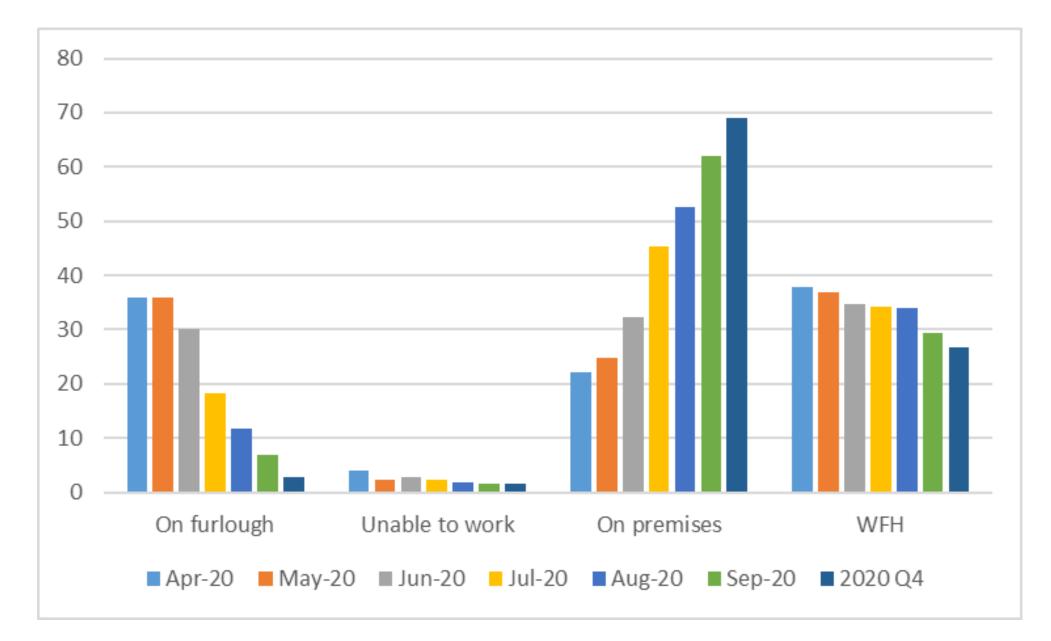


Losers - hardly any WFH - UK





Forward look - working arrangements due to Covid-19



WFH post-COVID? ... persist or reverse?

Depends on why WFH grew in 2020

- Relative prices: work on premises was expensive
 - PPE, health risks => will at least partially reverse
 - DMP suggests average unit costs were 7% 2020Q2 and Q3, falling to 5% by 2021Q2 and to 2% by 2022+.
- Collection action: Work from home was not accommodated pre-Covid
 - Large shock forced, large scale WFH => solved the collective action problem and will persist
- Learning: Work from home was not understood
 - Learning over the pandemic improved its use => will persist

Potential Capital implications

Productivity

- Perhaps the internet is not a disappointment after all resilience rather than ready growth
- If the pandemic provoked 10+% of GDP in a crisis, what else may there be?
- Contributions calculated for UK as ~3.5% from home capital alone, and 13% from labour.
- Distributional implications
 - More resilient on average
 - Not more resilience for everyone (restaurants, in-person services)

What should governments do to support and cushion?

Offer tax deductibility for employees to invest in 'potential capital'

- Internet connections for work use
- Work-related ICT, office equipment
- Support 'resilience', boost productivity using potential capital
 - Upgrade high speed internet infrastructure
 - Offer education and training in IT skills
- Support the trend towards online retail (UK: 35% of total sales, up from 20% in February 2020)
 - Facilitate transition from high street to online
 - Retraining for employees in negatively affected sectors