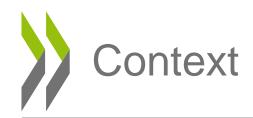


Luiz de Mello, Director, Economics Department, OECD

SUERF, April 2020

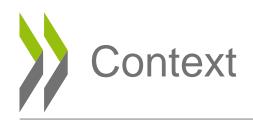




• Policy question: reduce the spread of the virus while minimising the economic costs of containment (and public health) policies

#### Containment measures

- stay-at-home requirements, school and workplace closings, restriction on gatherings and public events, closure of public transport, travel bans, etc.
- Public health measures
  - TTI, mask-wearing, testing and visit restrictions in care homes, etc.

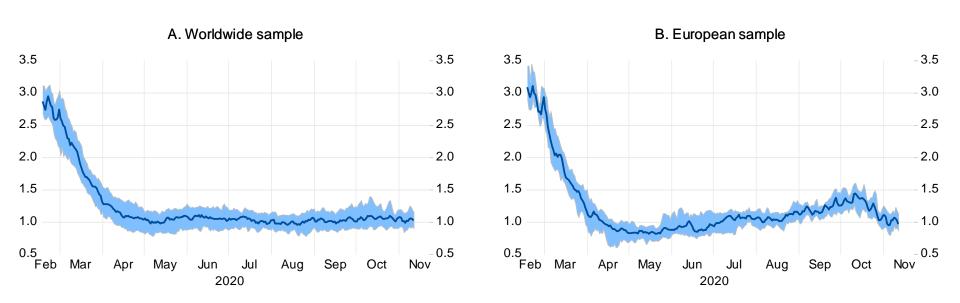


- Empirical evidence based on first wave of pandemic (2021H1)
  - Egert, Guillemette, Murtin and Turner (WP 1633, 2020)
- Analysis of the effects of policies on the reproduction rate, R, and mobility as proxy for economic activity;
  - OECD and Oxford indicators; daily data, 70+ countries



## The reproduction rate fell after the first lockdown, but variation across countries

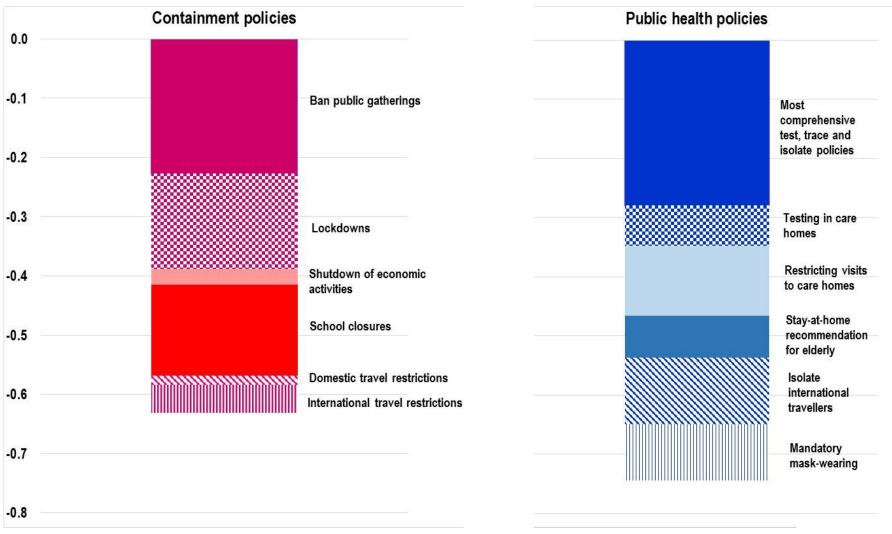
#### Median and interquartile range for effective reproduction rate (R)



Note: The chart summarises trends in R for a selection of worldwide (Panel A) or European (Panel B) countries for which R can be computed over the full sample period.



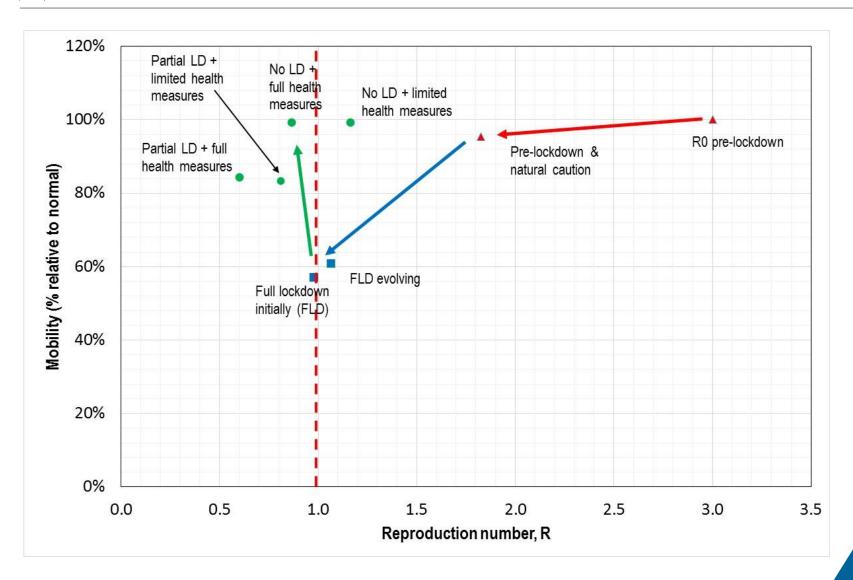
### Main finding: policies reduce (logged) R; effects vary across countries



Note: Average of coefficients estimated using OECD and Oxford University policy indicators.



## Stylised scenarios: policies to minimise the economic cost of containment



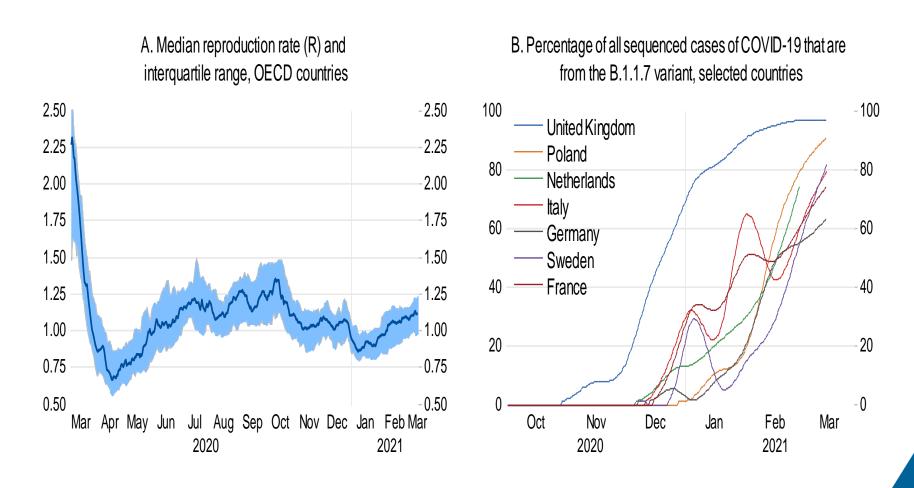


#### What works best?

- HIGH infection rate => containment policies required, but big negative effect on mobility
- LOW infection rate => test-and-trace a better alternative.
  - More effective with comprehensive contact tracing & effective isolation, also extended to care homes.
- Other public health policies effective at little or no mobility cost:
  - Mandating mask-wearing in public indoor environments;
  - restricting visits to care homes;
  - and stay-at-home recommendations for the elderly.
- Still may need to resort to selective containment measures.

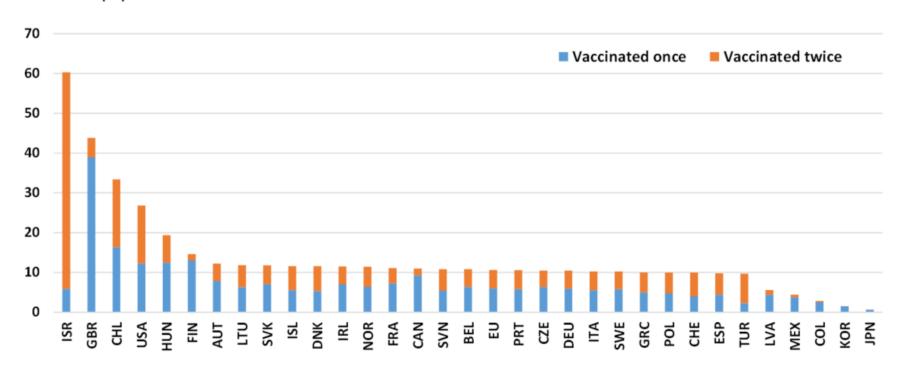


# New elements: more infectious variants can boost R for a given policy package



### To come: the key role of vaccination, but rates vary across countries

Per cent of population vaccinated as of end-March 2021



Source: Official data collated by Our World in Data



#### Thank you

Reference: Egert, Guillemette, Murtin and Turner (2020), "Walking the Tightrope: Avoiding a Lockdown While Containing the Virus", OECD Economics Working Paper, No. 1633, OECD, Paris.