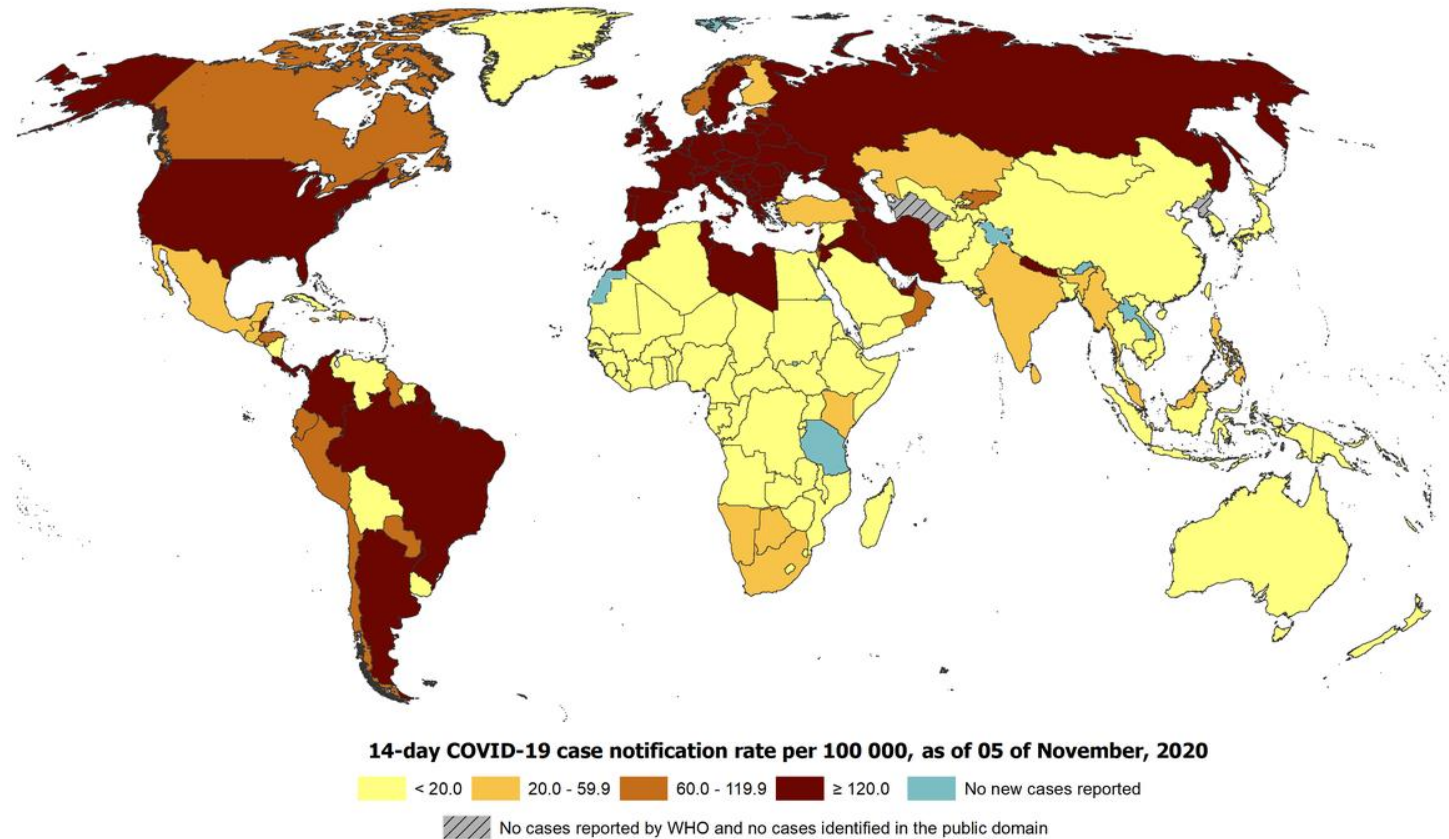


Knowledge translation of burden of disease studies in the era of Covid-19

Dr Henk Hilderink and Dr Elena Pallari

8th and 9th of December 2020



Administrative boundaries: © EuroGeographics © UN-FAO © Turkstat.
 The boundaries and names shown on this map do not imply official endorsement or acceptance by the European Union.

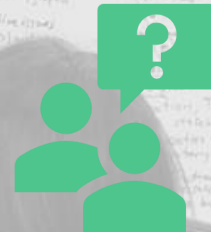
Date of production: 05/11/2020

World Congress on Public Health 2020

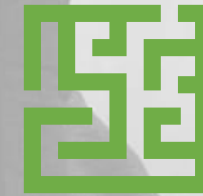
Co-development in practice



Knowledge translation:
guideline, evidence-based
practice model,
implementation program
etc.



Health policy framework:
context, content-factors
(enablers, facilitators),
processes and stakeholders
(actors)



Implementation challenge: of
converting a piece of evidence
into a useable form

Next steps



Making an inventory of good practices



Use the DALYs and effectiveness data (QALYs)



A diagram of 'policy-making' communication/ guidance on steps, challenges, opportunities, infographics



Impact of infographics on policy-makers on what works and what doesn't



Estimates are published, but impact is not evaluated

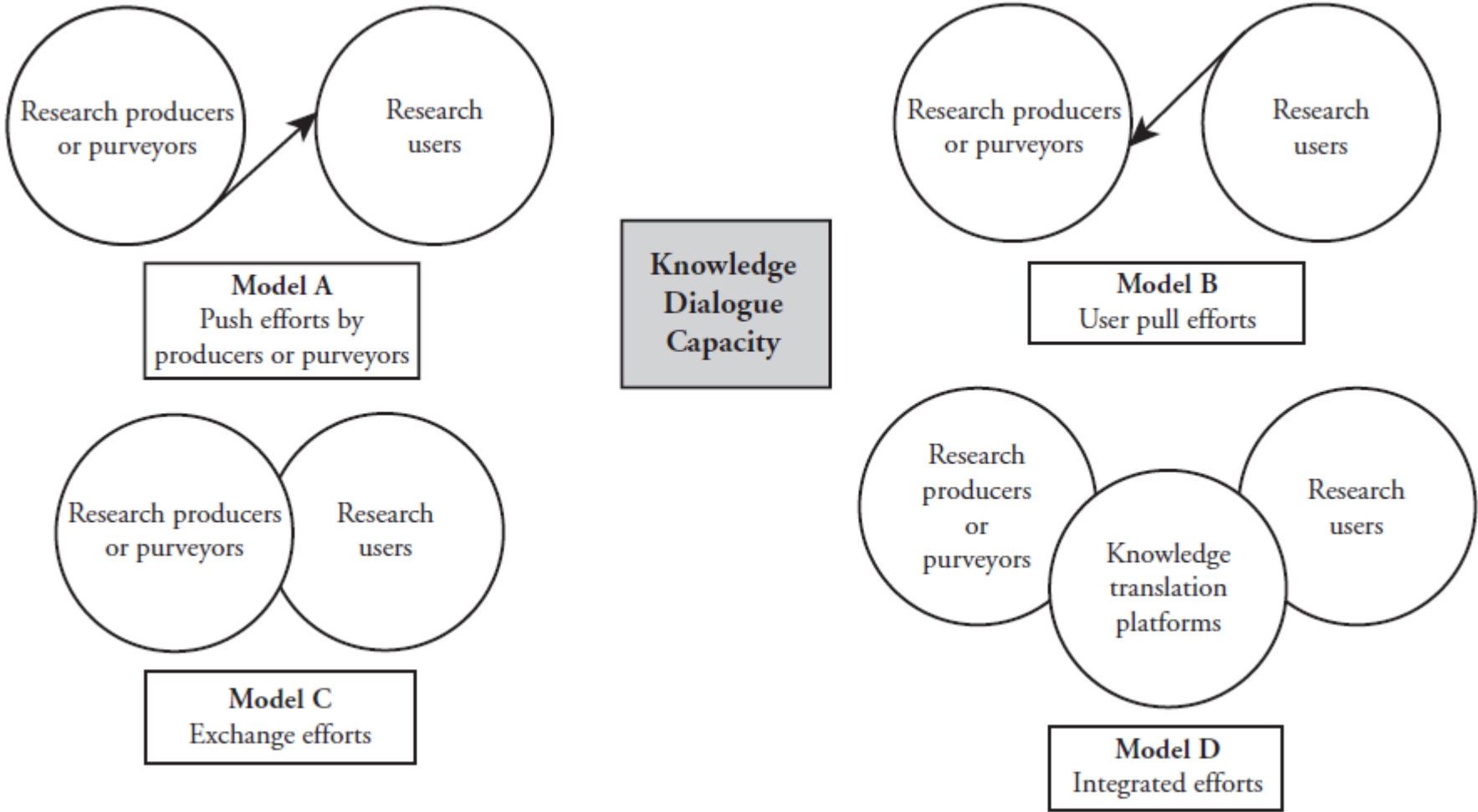
What does knowledge translation mean to you?



Knowledge Translation

- Knowledge Translation, Knowledge Exchange, Knowledge Transfer, Knowledge Transfer and Exchange, Research into action, knowledge-to-action, research into policy *etc.*
- According to the World Health Organization (WHO): Knowledge translation (KT) is *the synthesis, exchange, and application of knowledge by relevant stakeholders to accelerate the benefits of global and local innovation in strengthening health systems and improving people's health*

Models of Knowledge Translation



Source: Adapted from Lavis, J., J. Lomas, M. Hamid and N. Sewankambo. 2006. "Assessing Country-level Efforts to Link Research to Action." *Bulletin of the World Health Organisation*, 84: 620–628.

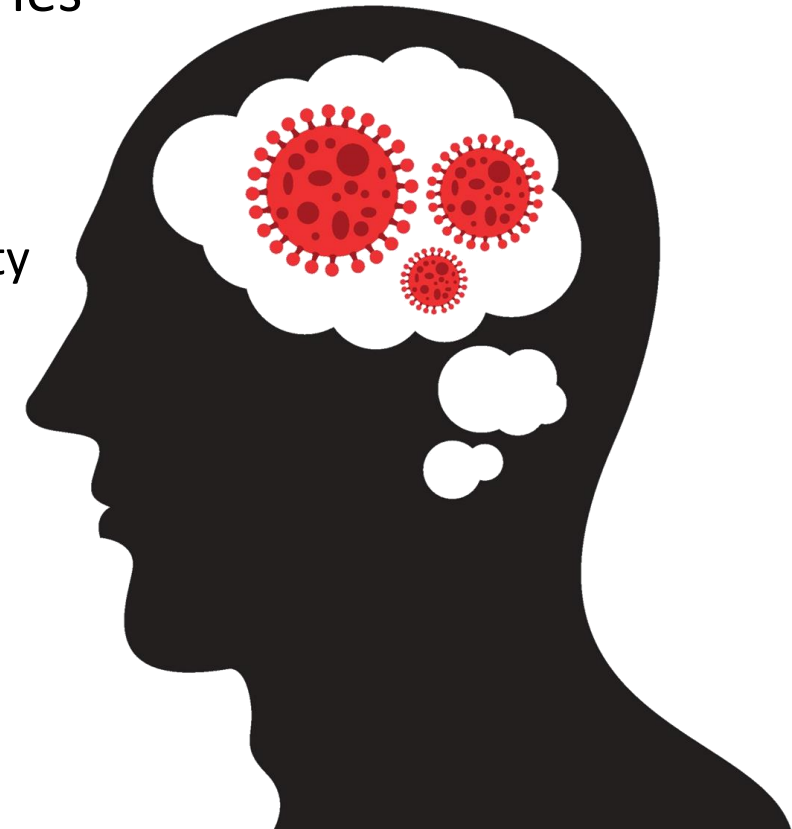
Campbell, S., Schryer-Roy, A.M. and Jessani, N., 2008. Knowledge translation toolkit: a resource for researchers.

How are Covid-19 data being used by policy makers and/or researchers in your country?

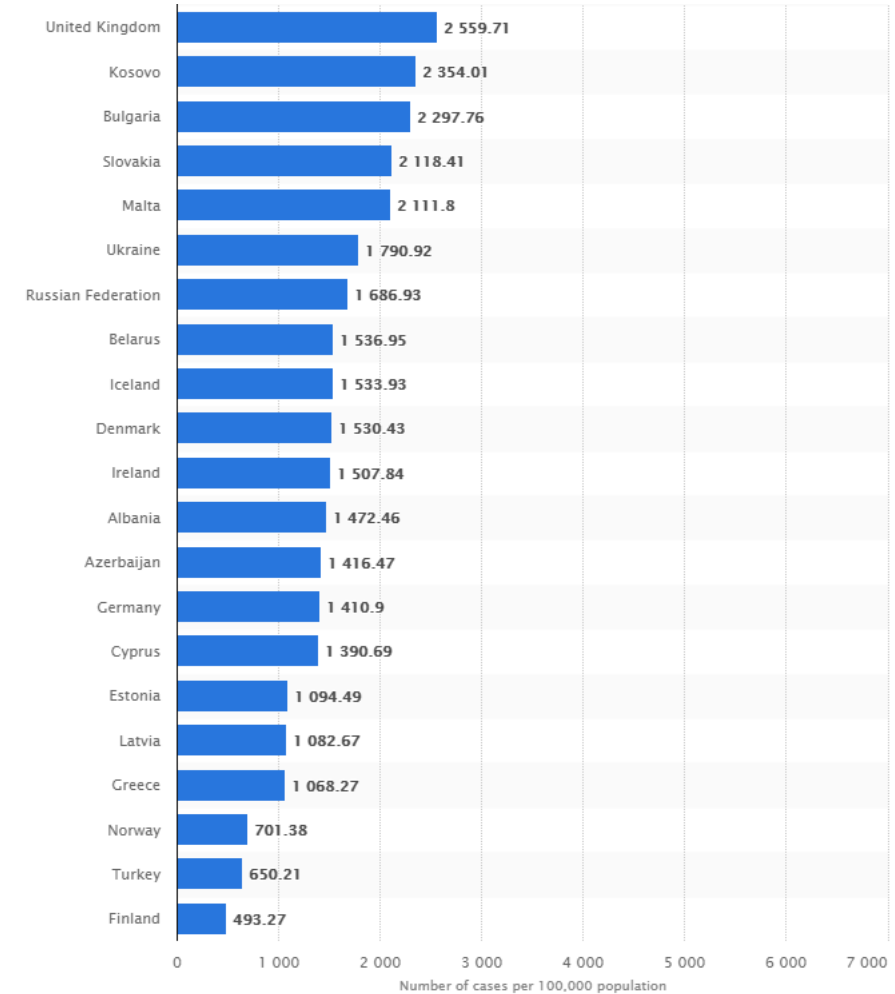
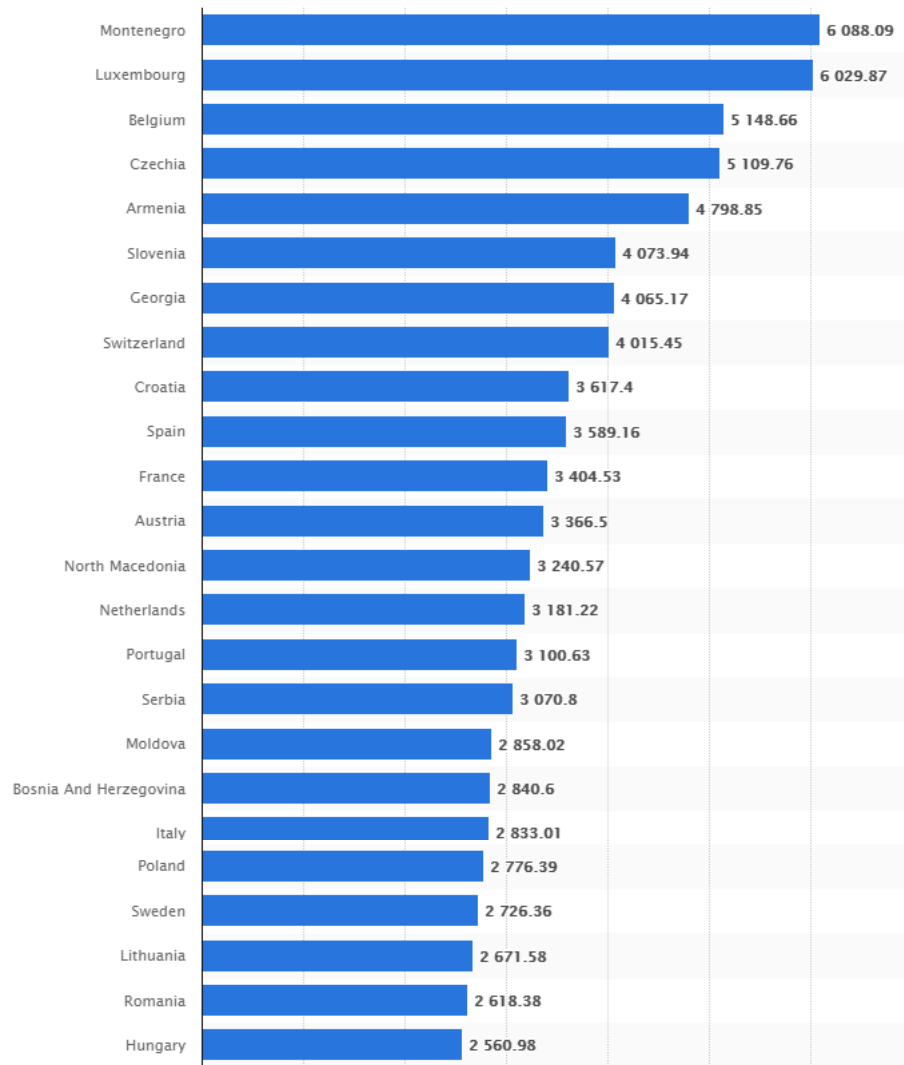


COVID-19

- Rapid translation of COVID-19 evidence
 - Good examples in Europe (and beyond)
 - Bad examples and sharing of learning with other countries
- Yet, the second wave is much worse than the first
 - Need to identify potential solutions
 - Strengthening the public health policy and healthcare capacity
 - Close the 'know-do' gap → how?
- Long-term effects on health
 - adversely affect their quality of life



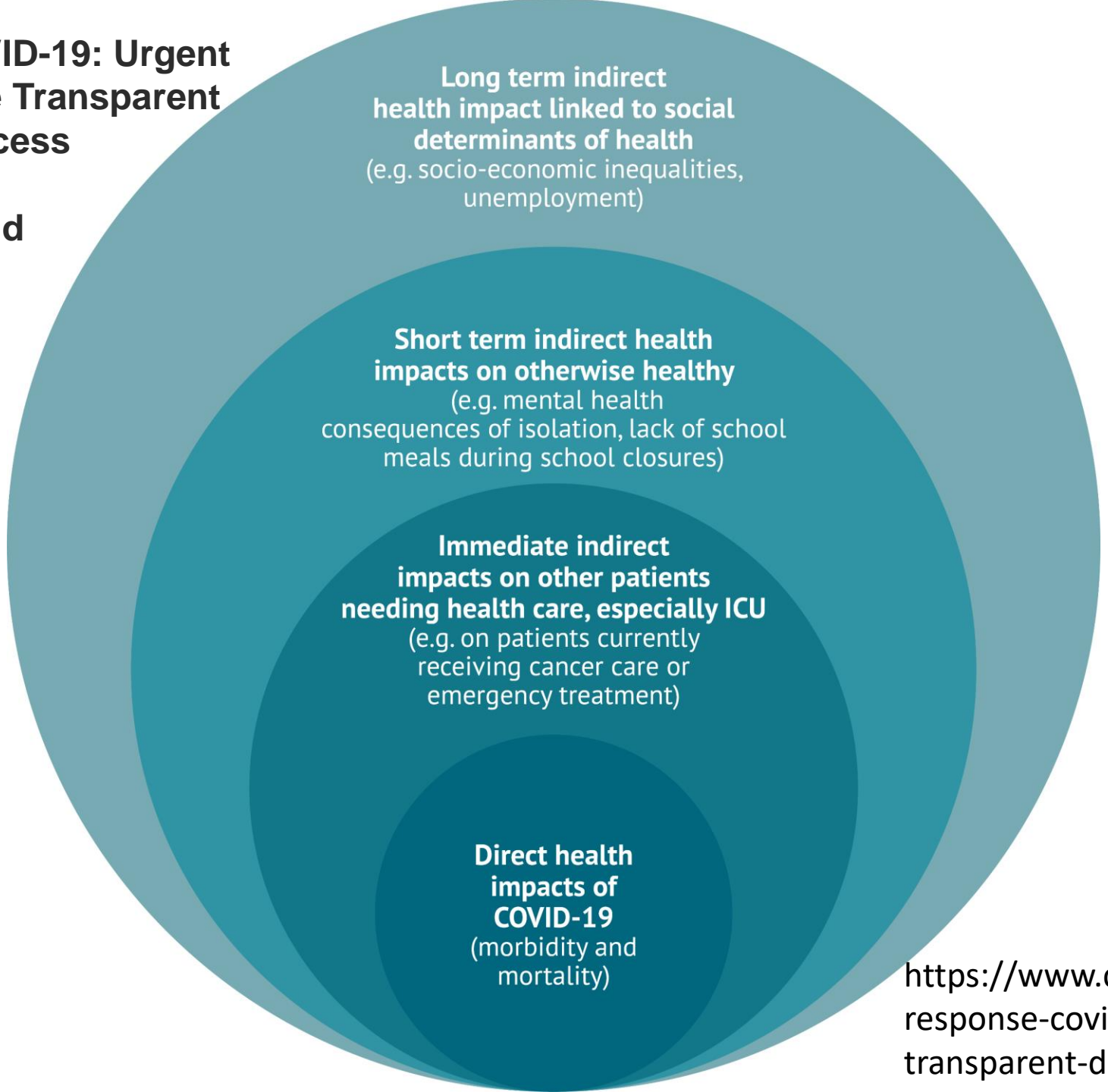
Coronavirus (COVID-19) cases per 100,000 in Europe 2020, by country



<https://www.statista.com/statistics/1110187/coronavirus-incidence-europe-by-country/>

**UK Response to COVID-19: Urgent
Need for An Inclusive Transparent
Decision Making Process**

**Kalipso Chalkidou and
Francis Ruiz**



[https://www.cgdev.org/blog/uk-
response-covid-19-urgent-need-inclusive-
transparent-decision-making-process](https://www.cgdev.org/blog/uk-response-covid-19-urgent-need-inclusive-transparent-decision-making-process)

Cyprus



COVID-19 spread in Cyprus



Data by Municipality / Community with more than 100 reports

Confirmed Cases Incident Reports



Confirmed Cases by Gender

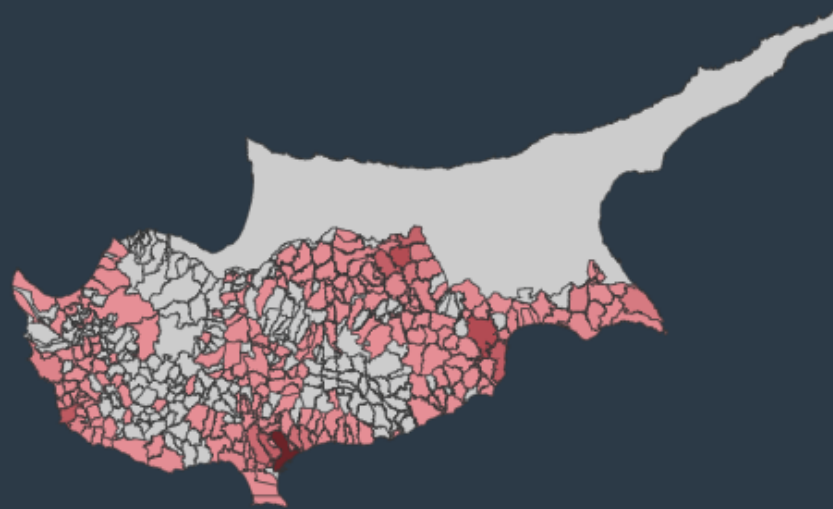


Confirmed Cases by Citizenship

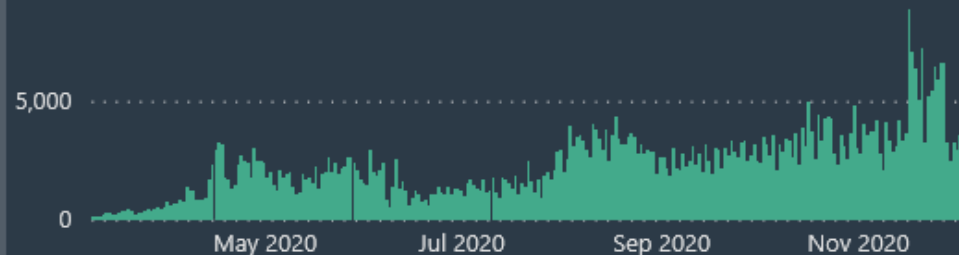


Confirmed Cases by Age Group

Confirmed Cases by Municipality / Community



Tests for Covid-19 by day (PCRtest)



Tests for COVID-19

639,047

451,162

Confirmed Cases

12,451

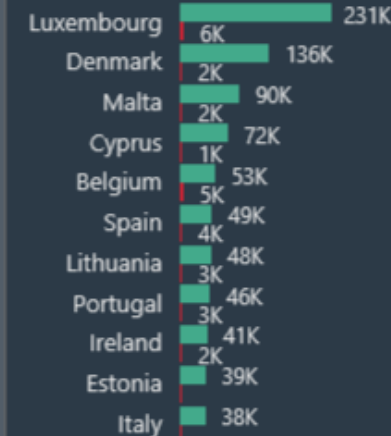
10322

Deaths due to COVID-19

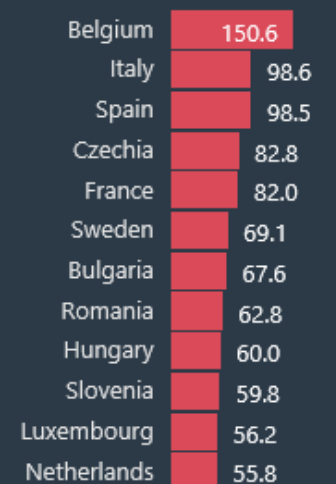
61

2,057

Tests and Confirmed Cases per 100,000 population in European Union



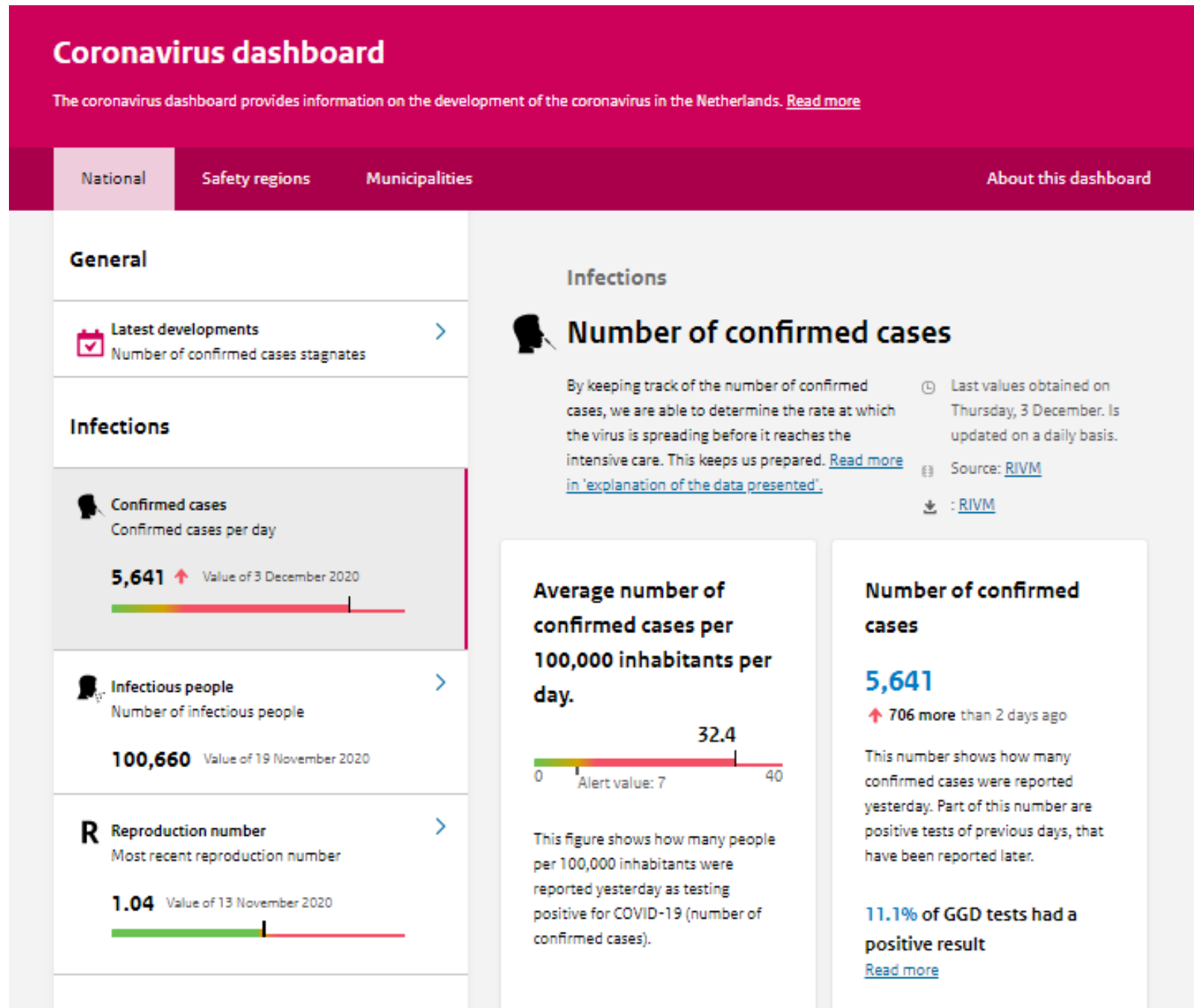
Deaths per 100,000 population in European Union



Confirmed Cases per 100,000 population by District



The Netherlands



High burden of disease first wave COVID-19

The COVID-19 disease burden during the first wave has been estimated at 58,500 Disability-Adjusted Life Years (DALYs). In an average influenza season, the estimated burden of disease is an average of 12,000 DALYs. The disease burden of COVID-19 is therefore almost five times higher than an average influenza season. Most DALYs due to COVID-19 (99%) are related to years of life lost due to premature death. In the first wave, 6,142 people died who were diagnosed with COVID-19.

Small fluctuations R-number, big consequences

It is uncertain how the corona pandemic will continue. We therefore sketch the future on the basis of three scenarios. This shows that small differences in the distribution of SARS-CoV-2 can have major consequences for the number of intensive care (IC) recordings. Three scenarios have been developed that show the possible future developments of the possible future course of the corona pandemic.

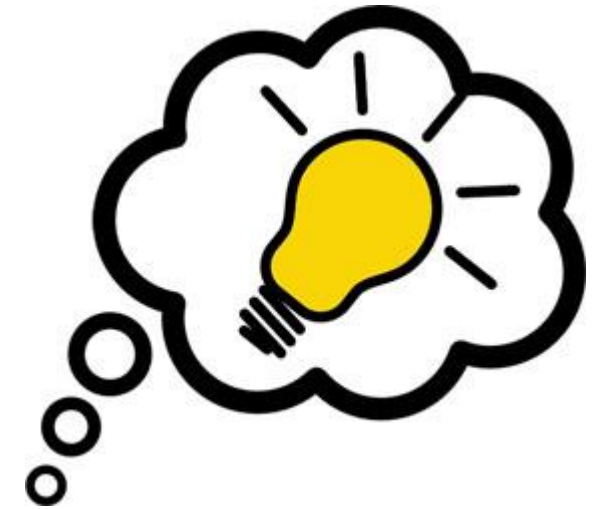
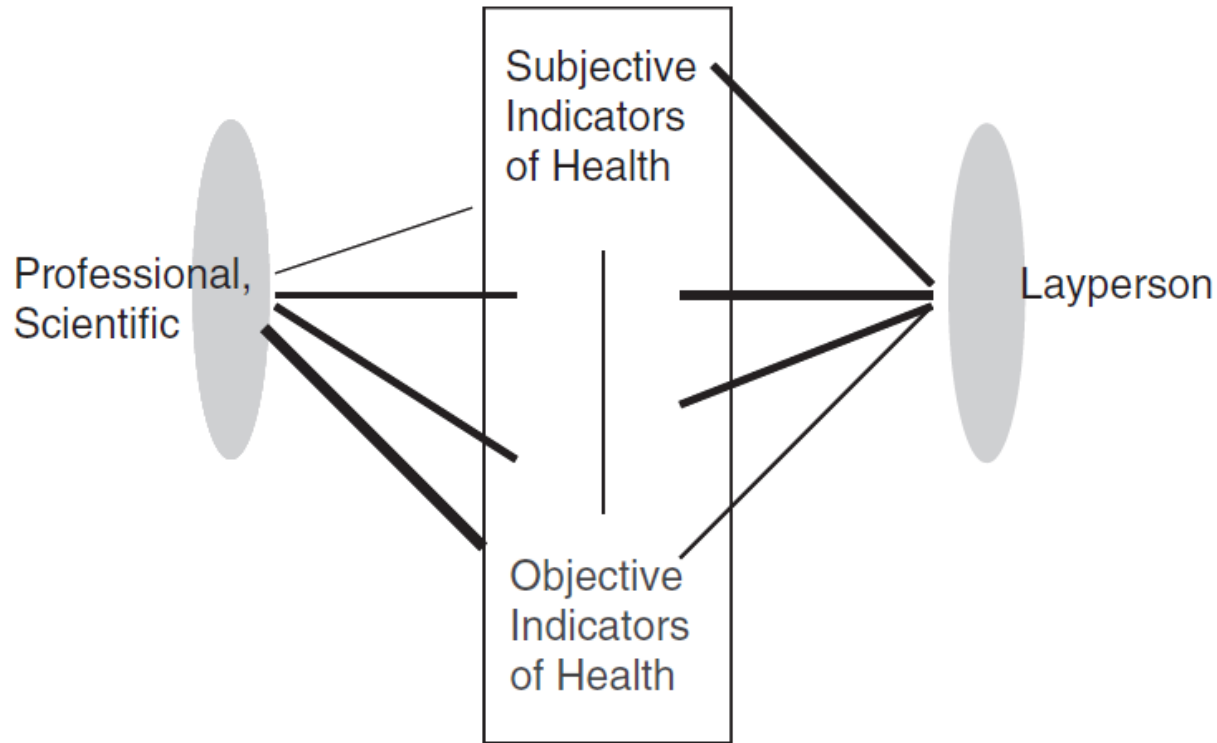
Vulnerability of the population is increasing

There is a possibility that SARS-CoV-2 or another coronavirus will continue to cause outbreaks in the future, even if there is a vaccine against it. The Dutch population is aging, and the

Belangrijkste risicofactoren ernstig beloop COVID-19



The Lenses of Scientists, Health Professionals and Lay People



How can the KT process be improved for COVID-19 and more broadly BoD studies?



Thank you for listening :)

Acknowledgements

COST Action CA18218 Workshop
participants and collaborators



Please get in touch:

info@burden-eu.net

