

2020 FUTURE  
OPERATIONS

## Thematic Session 6

**How do science and public policy interact in times of crisis?**

# Brief Overview

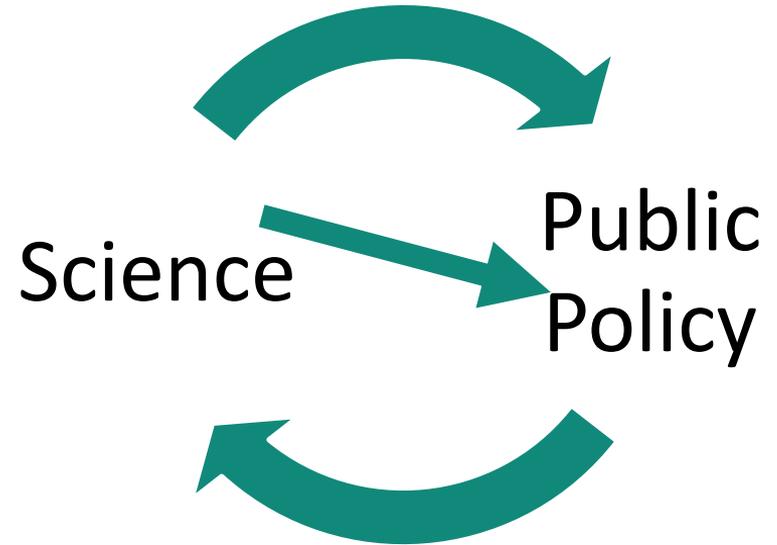
- **Thomas König** – Introduction
- **Claudio Radaelli** (European University Institute) – Regulatory procedures, evidence, and governance outcomes (online)
- **Susanne Forstner** (Institute for Advanced Studies – IHS) – Research and policy advice during the pandemic: experiences in the field of economics
- **Claudia Hahl** (Austrian National Public Health Institute) – Crisis management during the pandemic from the perspective of GÖG as a boundary organization

## Goal of this session

How do science and public policy interact in times of crisis?

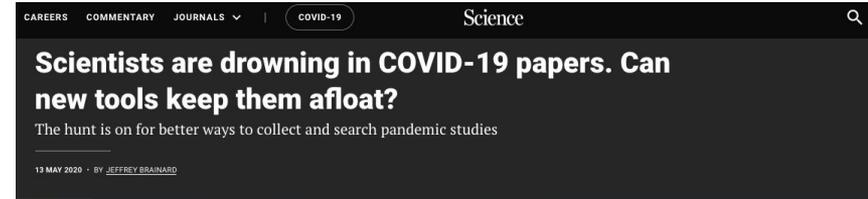
### Science – Policy – Relationship

- “Science for Policy”
  - Science Advise
  - Indirect
- “Policy for Science”
  - Funding for science (research)
  - Governance of scientific organisations
- “Science of Policy”



# A surge in research ...

When it comes to Corona:  
A surge in studies and papers



As of January 7, 2022, the NCRC will no longer be updating our website with new reviews each week although, on occasion, we may still review and upload summaries for key papers. Please feel free to reach out to us at [NCRC@jhu.edu](mailto:NCRC@jhu.edu) with any inquiries.



2019 Novel Coronavirus Research Compendium (NCRC)



# ... tracking government interventions ...

BSG Working Paper Series

Providing access to the latest  
policy-relevant research



<https://doi.org/10.1038/s41562-020-01009-0>

Check for updates

## Ranking the effectiveness of worldwide COVID-19 government interventions

Nils Haug<sup>1,2,7</sup>, Lukas Geyrhofer<sup>1,2,7</sup>, Alessandro Londei<sup>3</sup>, Elma Dervic<sup>1,2</sup>, Amélie Desvars-Larrive<sup>1,2,4</sup>, Vittorio Loreto<sup>1,2,3,5</sup>, Beate Pinior<sup>1,2,4</sup>, Stefan Thurner<sup>1,2,6</sup> and Peter Klimek<sup>1,2</sup>

Assessing the effectiveness of non-pharmaceutical interventions (NPIs) to mitigate the spread of SARS-CoV-2 is critical to inform future preparedness response plans. Here we quantify the impact of 6,068 hierarchically coded NPIs implemented in 79 territories on the effective reproduction number,  $R_e$ , of COVID-19. We propose a modelling approach that combines four computational techniques merging statistical, inference and artificial intelligence tools. We validate our findings with two external datasets recording 42,151 additional NPIs from 226 countries. Our results indicate that a suitable combination of NPIs is necessary to curb the spread of the virus. Less disruptive and costly NPIs can be as effective as more intrusive, drastic, ones (for example, a national lockdown). Using country-specific ‘what-if’ scenarios, we assess how the effectiveness of NPIs depends on the local context such as timing of their adoption, opening the way for forecasting the effectiveness of future interventions.

## Variation in government responses to COVID-19

BSG-WP-2020/032

Version 13.0

March 2022

Thomas Hale	Beatriz Kira	Hao Zha
Jessica Anania	Maria Luciano	Yuxi Zhang
Bernardo Andreelli de Mello	Saptarshi Majumdar	Adam Wade
Noam Angrist	Radhika Nagesh	
Roy Barnes	Anna Petherick	
Thomas Boby	Toby Phillips	
Emily Cameron-Blake	Annalena Poff	
Alice Cavalieri	Julia Sampaio	
Marina Di Folco	Helen Tatlow	
Benjamin Edwards	Samuel Webster	
Lucy Ellen	Andrew Wood	
Jodie Elms		
Rodrigo Furst		
Kallyn Green		

... and questioning scientific policy advice



Name	Where	Whom	What	Composition
<b>Taskforce (C)</b>	BMSGPK	BMSGPK	Medizinisch-virologischer Frame	Transdisziplinär: Interner Beraterstab des BMSGPK (Verwaltung) + externer BS: Wissenschaft (Medizin, Virologie, Mikrobiologie Gesundheitswissenschaften/Bioethik) + Krankenhausmanagement, Intensivmedizin, Einsatzorganisationen, Ärzte- und Apothekerkammer (Multidisz.)
<b>OSR</b>	BMSGPK	BMSGPK	Medizinische Beratung	Transdisziplinär: Medizin (versch. Fächer) + Stakeholder (Patientenanzweltschaft/Pflege/ pflegende Angehörige/Public Health; Ärzte-/Apothekerkammer) + BMSGPK
<b>GECKO (C)</b>	BKA	Kabinett	Interdisziplinär/ politischer Auftrag	Transdisziplinär: Wissenschaft (inkl. nicht-medizinischer/naturwissenschaftlicher Fachgebiete wie Kommunikation oder Modellierung), Operative Expertise, Ländervertreter, Einsatzorganisationen
<b>FOB (C)</b>	Frei	alle	Interdisziplinär, selbstständig	Multidisziplinär: v.a. Wirtschafts- und Sozialwissenschaften (und vereinzelt Behörden)
<b>SKKM</b>	BMI	Politik/ Verwaltung	entscheidend	Krisenmanagement, Verwaltung
<b>COVID-Prognose-Konsortium (C)</b>	BMSGPK	BMSGPK/ GECKO/ Corona-K.	Modellierung	Modellierung/GÖG
<b>Corona-K. (C)</b>	BMSGPK?	Bund/ Länder	Risiko-Abschätzung	politische Vertreter*innen der Länder und des Bundes (SKKM, BKA, BMSGPK, BMBWF) + vom Bund nominierte (medizinische/public health) Expert*innen
<b>NIG</b>	BMSGPK	BMSGPK	Med. Beratung	Medizin (Corona: AG Safety Board)
<b>Bioethik-kommission</b>	BKA	BKA	selbstständig + Auftrag	Multidisziplinär: wissenschaftlich besetzt

Legend:  
(C) =  
created for  
COVID-19

*italic* = not  
formalised

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and Team

