



perisc^{ope}

PERISCOPE'S FINAL CONFERENCE

From Data Science and Socio-Economic Research to Policy and Technology

Learning from COVID-19 to Build Better Health and Care in Europe

WWW.PERISCOPEPROJECT.EU



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About PERISCOPE

PERISCOPE (PAN-EUROPEAN RESPONSE TO THE IMPACTS OF COVID-19 AND FUTURE PANDEMICS AND EPIDEMICS) is a large-scale research project that brings together 32 European institutions and is coordinated by the University of Pavia. PERISCOPE is a Horizon 2020 research project that was funded with almost 10 million Euros under the Coronavirus Global Response initiative launched in May 2020 by the European Commission President Ursula von der Leyen.

The goal of PERISCOPE is to shed light into the broad socio-economic and behavioral impacts of COVID-19. It brings together a multidisciplinary consortium of experts encompassing all aspects of the ongoing outbreak, including clinical and epidemiological, socio-economic and political, statistical, and technological expertise.

The PERISCOPE's objectives encompassed mapping and analyzing the unintended consequences of the COVID-19 outbreak, developing solutions and guidance for policymakers and health authorities to mitigate its impact, enhancing Europe's preparedness for future similar events, and reflecting on the future of multi-level governance in health and other domains affected by the outbreak.

Message from the project coordinator

Significant knowledge gaps on the effects of the COVID-19 pandemic persist, especially in terms of the socio-economic and behavioural impacts of the pandemic, and the costs and benefits of alternative government policies. While natural scientists managed to develop new research and shed light on the biological dynamic of the pandemic, socio-economic scientists have been increasingly faced with the need to provide rapid support to urgent policy decisions, with a substantial lack of data and statistical models.

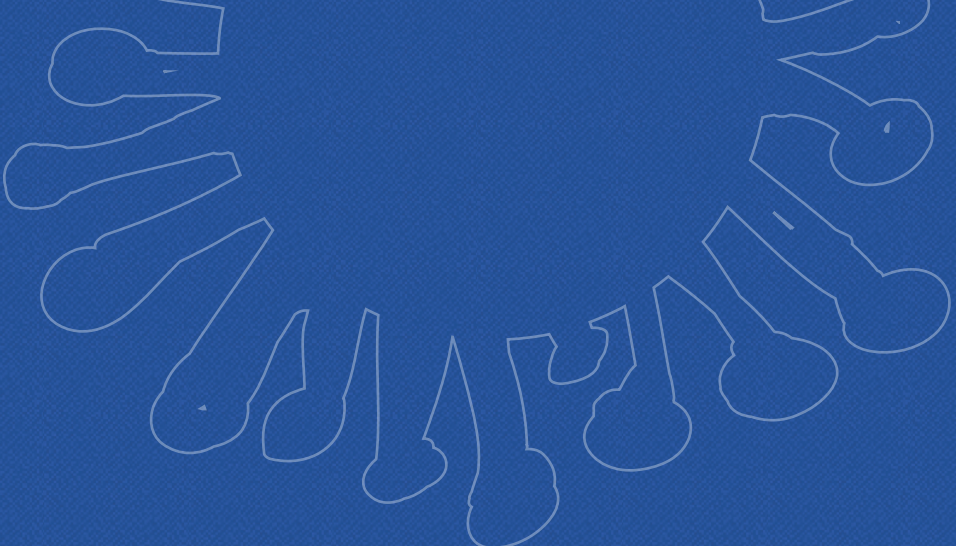
Against this background, the PERISCOPE project is contributing to a deeper understanding of the socio-economic and behavioural impacts of the pandemic, leading to new scientific evidence, collected in an integrated data atlas, from which statistical models of the impacts and their risk of future occurrence can be built, and alternative policy scenarios be compared. Besides learning the impacts and risks of the pandemic, the project is proposing an overarching policy response strategy, composed of innovative policies, policy guidance, and a plan for multi-level governance of the pandemic, and at deploying technological tools and training modules to test, validate and disseminate such proposals.

During its first year of activity, the project has made progress that has advanced the state-of-the-art research concerning the identification of the socio-economic, mental health, health system, and behavioural “impacts” of the pandemic. On the “data” side, it has released the first version of its Data Atlas, and it has developed original and relevant research in the field of statistics, producing models can accurately forecast the evolution of the pandemics. In the first year, the project has also laid down the foundational aspects for its “policies” and “technologies” parts and has built its dissemination strategy, centred around the project website.



PROF. PAOLO GIUDICI

Paolo is a Professor of Statistics and Financial Data Science at University of Pavia. His research activity concerns the development of statistical models to obtain forecasts and risk measurements of socio-economic impacts of innovations, to make them sustainable. He is author of several scientific publications, with an h-index of 45 (Google scholar), 32 (Scopus), 26 (Clarivate), which mainly concern statistical learning models to obtain predictions and/or risk measures in economics and finance. Coordinator of 12 funded scientific projects, among which the European Horizon2020 projects “PERISCOPE: Pan-European response to the impacts of covid-19 and future pandemics and epidemics (2020-2023)” and “FIN-TECH: Financial supervision and Technological compliance” (2019-2020).



During the second year of activity, the project has further expanded the state-of-the-art research on the socio-economic, mental health, health systems, and behavioural impacts. It has completed the structure of the Data Atlas and has extended forecast statistical models in a spatio-temporal perspective. The project has also advanced the state of the art on the policy side, with innovative responses to the pandemic, and related guidance and governance models; in particular with TRUSTWORTHY AI methods and with the PERSEUS-COVE tool. During the second year, the project has also completed the structure of two technological tools that can improve social and financial inclusion: COCTEAU and S-PEEK, and of new training modules, implemented in corresponding MOOCs.

The third year of the project is being dedicated to the consolidation of the activities of the first two years: research publications, technological tools, dissemination events, which will be showcased during the PERISCOPE's Final Conference - From Data Science and Socio-Economic Research to Policy and Technology - Learning from COVID-19 to Build Better Health and Care in Europe.

Programme Agenda

09:30 – 10:00	Reception
10:00 – 10:05	Welcome and introduction , Prof. Andrea Renda (CEPS)
10:05 – 10:45	Opening Session - What have policymakers in the EU and Member States learnt from the COVID-19 pandemic?
	Ms Maya Matthews (DG SANTE), Prof. Steven Van Gucht (SCIENSANO)
10:45 – 11:45	Panel Session 1 - Mental health and behavioural insights
	Effects of COVID-19 on mental health, Dr. Pär Flodin (KI) Behavioural Research on the COVID-19 pandemic and Policy Implications to Enhance Preparedness for Future Pandemics, Prof. Tim Büthe (TUM)
11:45 – 12:00	Coffee break
12:15 – 13:15	Panel Session 2 - Policy learning from data and digital tools
	Data Atlas: lessons learned, Prof. Manuel Ottaviano (UPM) Digital Technologies for public health policy, Prof. Marco Brambilla (POLIMI) Statistical models to measure the socio-economic impacts and risks of the pandemic, Prof. Paolo Giudici (UniPV)
13:15 – 14:30	Networking Lunch
14:30 – 15:15	Panel Session 3 - Public health governance
	How to increase health system resilience? Lessons from across Europe, Dr. Thomas Czepionka (IHS) Lessons learned for EU public health governance, Dr. Timothy Yeung (CEPS) The EU as a rising actor in global health governance, Dr. Clare Wenham (LSE)
15:15 – 15:45	Panel Session 4 - Innovations in Pandemic Preparedness and Response
	Imagining next best practices: a comparison with past best practices and the role of AI, Prof. Roberto Verganti (SSE), Prof. Mattia Bianchi (SSE), and Riccardo Masiero (SSE)
15:45 – 16:00	Coffee break
16:00 – 17:00	Discussion Panel - The future of EU public health: The next building blocks for an effective European Health Union
	What should the EU do for public health in the next mandate? Moderator: Michele Calabro (EUREGHA) Panelists: Prof. George Griffin (FEAM), Claudia Louati (EPF), Fatima Awil (MHE), Marco Di Donato (EUREGHA)
17:00 – 17:10	Closing Remarks , Prof. Andrea Renda (CEPS)
17:10 – 19:00	Drinks reception

Introduction

The PERISCOPE's Final Conference - From Data Science and Socio-Economic Research to Policy and Technology - Learning from COVID-19 to Build Better Health and Care in Europe explores the socio-economic and behavioural impacts resulting from the policies implemented in response to the pandemic and examine how policy responses have influenced the path towards better health outcomes in Europe. Throughout the project's duration, PERISCOPE's team has been at the forefront of pioneering work in data science, economic research, and technological innovation as responses to the COVID-19 crisis. As the project's culmination approaches, it is now an opportune moment to contemplate the collective contributions and the valuable insights gained.



The consortium's dedicated efforts have led to theoretical and experimental research that significantly advances our understanding of both the short- and long-term impacts of the pandemic and the measures enacted to control it. These research-intensive activities enable the consortium to propose comprehensive guidelines to prepare Europe for future pandemics and epidemics. The experts who have participated in this research include community leaders, public health practitioners, academic experts, national medical experts, national-level scientific advisors, and EU and global health officials.



PROF. ANDREA RENDA

Andrea Renda is a Senior Research Fellow and Head of the CEPS Unit on Global Governance, Regulation, Innovation and the Digital Economy (GRID). He is Adjunct Professor of Digital Policy at the School of Transnational Governance of the European University Institute.



MAYA MATTHEWS

Maya Matthews has worked in public health for the past 20 years. Ms Maya Matthews is the Acting Director of Digital, EU4Health and Health Systems Modernisation (SANTE.C) of DG SANTE of the European Commission.



PROF. STEVEN VAN GUCHT

Steven Van Gucht is the Head of Viral Diseases at Sciensano (Belgium). He started his career at Sciensano in December 2005 as Scientific Co-worker at the National Reference Laboratory of Rabies. He was nominated as Head of the Service of Viral Diseases in 2010. Since 2014, he is also appointed as Visiting Professor at the Laboratory of Virology at the Faculty of Veterinary Medicine, Ghent University.

Sessions and Speakers

First Panel Session - Mental health and behavioural insights

Mental health and behavioral insights have emerged as critical areas of concern in the context of the COVID-19 pandemic. This global crisis has not only strained healthcare systems but has also had profound effects on the psychological well-being of individuals. This panel brings together experts in mental health and behavioral science to address these impacts.



DR. PÄR FLODIN (KI)

Pär Flodin is a research specialist at the Karolinska Institute. His work involves research in psychiatric epidemiology and mapping the prevalence and causes of mental illness. He completed his PhD at the Karolinska Institute in 2015, focusing on the effects of clinical interventions on brain functioning, cognition, and behaviour.



PROF. TIM BÜTTHE

Tim Bütthe is Professor and Chair for International Relations at the Munich School of Politics and Public Policy, the School of Social Sciences & Technology and the School of Management, all at Technical University of Munich, as well as Technology Policy Scholar at The Stanford School of Public Policy at Duke University. He previously was a Robert-Wood-Johnson Foundation Scholar in Health Policy Research at the University of California Berkeley's School of Public Health and at US San Francisco.

Second Panel Session – Policy learning from data and digital tools

Policy learning from data and the utilization of digital tools have become indispensable strategies in the fight against the COVID-19 pandemic. This unprecedented global crisis has highlighted the importance of agile and data-driven decision-making processes in shaping effective public health responses. In this panel discussion, speakers will provide a comprehensive perspective on how technology, data science, healthcare, and statistics can collectively contribute to a better understanding of and more effective responses to the various impacts of the COVID-19 pandemic.



DR. MANUEL OTTAVIANO

Manuel is assistant professor of computer science and researcher in digital health and well being at Universidad Politécnica de Madrid, Spain. He teaches future engineers the concept of software architecture, advanced databases, data visualization, project management and specific methods to design digital health solutions in the field of telemedicine and clinical engineering.

His contributions to PERISCOPE were the design and semantic integration of the ATLAS and the overall ethics assessment of the project.



PROF. MARCO BRAMBILLA

Marco Brambilla is full professor at Politecnico di Milano. He is active in research and innovation, both at industrial and academic level. His research interests include data science, software modelling languages and design patterns, crowdsourcing, social media monitoring, and big data analysis. He has been visiting researcher at CISCO, San José, and the University of California, San Diego. He authorises various international books, including Model Driven Software Development in Practice (II Edizione, Morgan- Claypool, 2017, adopted in 100+ universities worldwide), and Web Information Retrieval (Springer, 2013).



PROF. PAOLO GIUDICI

Paolo Giudici is the coordinator of the PERISCOPE project. He is a Professor of Statistics and Financial Data Science at University of Pavia. His research activity concerns the development of statistical models to obtain forecasts and risk measurements of socio-economic impacts of innovations, to make them sustainable.

Third Panel Session – Public health governance

Public health governance has been thrust into the global spotlight amid the COVID-19 pandemic. The crisis has underscored the critical role of effective governance structures and strategies in responding to public health emergencies. This panel presentation brings together experts in public health policy, healthcare systems and global health security.



DR. TIMOTHY YEUNG

Dr. Timothy is a Research Fellow in the Global Governance, Regulation, Innovation and Digital Economy unit at CEPS. Timothy obtained his PhD in Economics from Toulouse School of Economics in 2016. He has contributed significantly to PERISCOPE as the main researcher in CEPS-leading tasks and the EPRS study on the Lessons for Future Cross-border Health Threats. His research on public health ranges from vaccine and vaccination strategies, to civil society involvement, and the impact of democracy on confinement measures.



DR. THOMAS CZYPIONKA

Dr. Thomas Czypionka is Senior Researcher and head of the research group Health Economics and Health Policy at the Institute of Advanced Studies (IHS), Vienna. He is both an economist and MD, and received his doctorate for the latter under the auspices of the president of the republic of Austria. He has been leading applied research projects commissioned by Austrian stakeholders, the European commission, and the London School of Economics and Political Science (LSE), with a special focus on health services research, healthcare financing, and healthcare reform.



DR. CLARE WENHAM

Clare Wenham is an Assistant Professor of Global Health Policy at the London School of Economics and Political Science (LSE). She specialises in global health security and the politics and policy of pandemic preparedness and outbreak response through analysis of influenza, Ebola, Zika, and COVID/19. She is the Director of the MSc in Global Health Policy and sits on the steering committee of the LSE Global Health Initiative. Her work has been featured in *The Lancet*, *BMJ*, *Security Dialogue*, *International Affairs*, *BMJ Global Health* and *Third World Quarterly*.

Fourth Panel Session – Innovations in Pandemic Preparedness and Response

Pandemic preparedness and response have taken center stage in the global healthcare landscape in recent years, particularly in the wake of the COVID-19 pandemic. The challenges posed by pandemics have spurred remarkable innovations across various sectors, from healthcare and technology to public policy and communication. These innovations are geared towards improving our ability to detect, respond to, and mitigate the impacts of pandemics. This panel will explore some key innovations in pandemic preparedness and response (PPR) that have emerged in response to the challenges posed by the COVID-19 pandemic.



PROF. ROBERTO VERGANTI

Roberto Verganti is Professor of Leadership and Innovation at the Stockholm School of Economics – House of Innovation, where he is Director of The Garden – Center for Design and Leadership. He also in the Faculty of the Harvard Business School, where he teaches Design Theory and Practice. Roberto is co-founder of Leadin’Lab, the laboratory on the LEAdership, Design and Innovation at the School of Management of Politecnico di Milano. Roberto is an Ambassador of the European Innovation Council, at the European Commission.



PROF. MATTIA BIANCHI

Mattia Bianchi holds the Matts Carlgren Chair in Business Administration. He is a Professor of Innovation Management at the House of Innovation, Stockholm School of Economics (SSE). Mattia holds a BSc, MSc and PhD in Management, Economics and Industrial Engineering from Politecnico di Milano and an International Diploma in Management from Imperial College London, UK. Mattia has also been visiting scholar at University of Calgary and Universidad Carlos III de Madrid. Mattia’s research interests are in the fields of innovation management, new product development and entrepreneurship, with a special focus on open innovation, lean and agile development processes and design thinking.



RICCARDO MASIERO

Riccardo earned a Master of Science in Space Engineering from Politecnico di Milano in May 2021 with a thesis on the use of satellite data for the development of the new space economy. In August 2021, he started his Ph.D. program at the House of Innovation of the Stockholm School of Economics, where he is researching radical innovation processes for technological and social change. He is affiliated with The Garde, the Center for Design and Leadership of the school, where he is focusing on the role of aesthetic metaphors and signs for organizing reframing.

Discussion Panel – The future of EU public health: The next building blocks for an effective European Health Union

The COVID-19 pandemic has underscored the critical need for a stronger and more coordinated approach to public health within the European Union (EU). In response to this pressing demand, discussions have revolved around the concept of creating an “European Health Union.” This union aims to foster greater collaboration, standardization, and resilience in the realm of public health across EU member states. This panel discussion brings together experts with a comprehensive range of knowledge and experience, encompassing clinical medicine, patient advocacy, mental health, regional healthcare systems, and EU health policy, making them well-equipped to discuss the future of EU public health.



PROF. GEORGE GRIFFIN

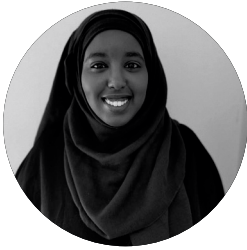
Professor George Griffin is the Vice-President of the Federation of European Academies of Medicine (FEAM). Professor George Griffin is a Fellow of the UK Academy of Medical Sciences and Emeritus Professor of Infectious Diseases and Medicine at the St George’s University of London. He is also a Board member of Public Health England where he helps shaping the strategy for research and clinical development. Professor Griffin’s principal clinical contributions to knowledge have been in the characterisation of intestinal disease in HIV infection, mechanism of weight loss in HIV and definition of loss of mucosal immune response in advanced HIV infection.



CLAUDIA LOUATI

Claudia Louati is Head of Policy at the European Patients Forum (EPF) since May 2023. She leads EPF’s policy and advocacy work at EU level and conveys EPF’s cross-disease perspective on EU policy and regulatory issues that have an impact on patients. Before joining EPF, Claudia worked for almost seven years at the Europe Office of the U.S. Food and Drug Administration fostering international regulatory collaboration on medical products.

In the context of Periscope, EPF conducted a survey in 2022 across its membership to understand the difficulties faced by patients with pre-existing chronic diseases during the pandemic as well as the impacts of long Covid on these patients.



FATIMA AWIL

Fatima is Mental Health Europe's Policy and Knowledge Officer. MHE is a PERISCOPE partner, collaborating in work packages 2,8, 11 and 14. Fatima has a background in human rights research, policy and advocacy with NGOs. Before joining Mental Health Europe, Fatima worked as the Advocacy and Policy Officer for End Female Genital Mutilation European Network. Fatima holds a BA (Hons) in Law and Human Rights, and an LLM in International Law and International Relations.



MICHELE CALABRO

Michele is Director at EUREGHA, the European reference network for Regional and Local Health Authorities. As EUREGHA Director, he leads the work of the association's secretariat, covering advocacy, knowledge exchange and partnerships, communication and projects.

Prior to joining EUREGHA, Michele worked at the European Health Management Association at the European Patients' Forum, and at DIGITALEUROPE. Throughout his career, Michele worked on several strategic EU-level projects including TO-REACH, DigitalHealthEurope, PERISCOPE, IN-4-AHA and BeWell.



MARCO DI DONATO




Marco Di Donato is a Policy and Project Officer at EUREGHA, the European reference network for Regional and Local Health Authorities, and assists the Secretariat in EU health policy monitoring and research and the implementation of EU-funded projects. In PERISCOPE, he followed and supported the activities related to the collection of evidence on policy measures at the regional level and the development of a PERISCOPE online course focusing on the regional response to pandemic situations. Marco was and is currently involved in other strategic EU health-related projects such as BOOST, BeWell, and Health InnoFacilitator.

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