

4-6 November, Krakow

11.00 - 12.15

Science Policy Interface

Jarosław Górniak - Centre for Evaluation and Analyses of Public Policies

Poland

Justyna Bandola-Gill — University of Edinburgh Christine Weidenslaufer — Library of National Congress in Santiago



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Science Policy Interface



Sukiennice room





4-6 November, Krakow



Broadcast permission:

- Turn on your microphone and/or camera
- Participate in the discussion



Conversations:

- General remarks
- Discussion
- News (links)



Who are the attendees?

- Speakers
- Participants



Q&A:

- (Targeted) questions
- Speakers answer the questions live



Lay out view:

Full screen, Tiled, Thumbnail







HOW TO ORGANISE EVIDENCE INFORMED POLICYMAKING
INTERNALLY AND EXTERNALLY

AN INTRODUCTION

PROF. JAROSŁAW GÓRNIAK

CENTRE FOR EVALUATION AND ANALYSIS OF PUBLIC POLICIES

VICE- RECTOR OF THE JAGIELLONIAN UNIVERSITY IN KRAKOW

IMPACT OF SCIENCE AND EVIDENCE INFORMED POLICYMAKING

- Impact of science versus impact of scientists
- Towards research-intensive policy making really?
- Out of an ivory tower social impact as part of university mission
- The case of COVID-19 pandemic a need for international comparative studies of science-policy interface

EVIDENCE INFORMED POLICY — POLICY ANALYSIS — EVALUATION

- Evidence informed policy public policy using the best available and scientifically sound research evidence
- Policy analysis as the analysis for policymaking providing policy makers with (evidence-based) advice on problems, causal mechanisms, instruments and potential consequences of the available options
- Evaluation as a source of knowledge about what works, for whom and in what circumstances

GOOD EVIDENCE

- Policy-relevant justifying the choice of policy conduct and instruments
- Trustworthy
 - Sound theory causal claims
 - Proper scientific methodology research design and measurement
 - Dependable and up-to-date data
- Conclusive providing recommendations capable of significantly reducing uncertainties of decision-makers

LIMITATIONS OF EVIDENCE INFORMED POLICY

- Policy decisions are based not only on evidence, but they are also prone to the influence of competing interests – every policy has its politics
- Institutional and cultural constraints matter
- Evidence may not match the political priorities of policymakers or societal preferences
- Priorities and societal preferences usually vary among stakeholders and across societies
- External validity of social research is more problematic than in medicine
 - ("what works there might not work here" -Cartwright & Hardie)

LIMITATIONS OF EVIDENCE INFORMED POLICY

- The issue of policy scope, size and complexity: evidence based on causal research (what works) is often restricted to selected policy problems and is of limited use for complex reforms
- Communication problems decision-makers use stories rather than pure scientific reports; there is a need for translation from the language of science into policy narratives
- Timing politicians (like businessmen) have much shorter timescales than researchers
- The job of policy makers is to anticipate, rather than explain past events and processes, whereas social scientists prefer the latter

OUR SPEAKERS

Justyna Bandola-Gill

School of Social and Political Science University of Edinburgh, UK

Associate Director of SKAPE – Centre for Science, Knowledge and Policy at the University of Edinburgh.

Co-author of the book *Impact Agenda:*Controversies, Consequences and Challenges
(Polity Press, 2020)

Her research explores the intersections between research and policy, especially the ways in which knowledge is organised, governed and mobilised to achieve political goals

Christine Weidenslaufer

Lawyer at the Library of National Congress in Santiago, Chile

She graduated from the Universidad de Valparaiso (Chile), Mary's University, in San Antonio, Texas (USA) and the University of London (UK)

Analyst and researcher, specialized in Common law

Legal advisor to senators, deputies and congressional committees

She works on understanding how science and technology can improve the legislative process integrating evidence-based information.

WELCOME TO OUR SESSION!

JAROSLAW.GORNIAK@UJ.EDU.PL

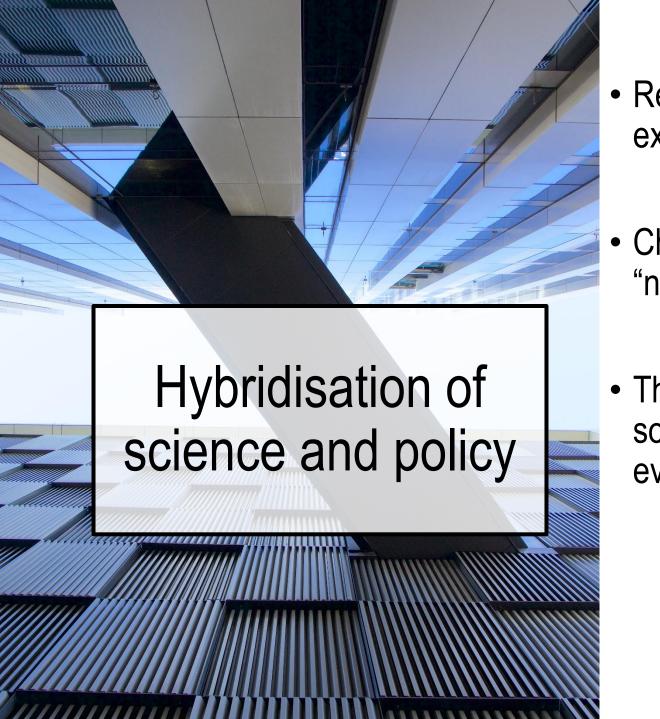
Science-Policy Interface: Navigating Political and Technocratic Accountabilities

Dr Justyna Bandola-Gill University of Edinburgh

The Impact Agenda Controversies, Consequences and Challenges

Katherine (Kat) Smith, Justyna Bandola-Gill, Nasar Meer, Ellen Stewart, Richard Watermeyer

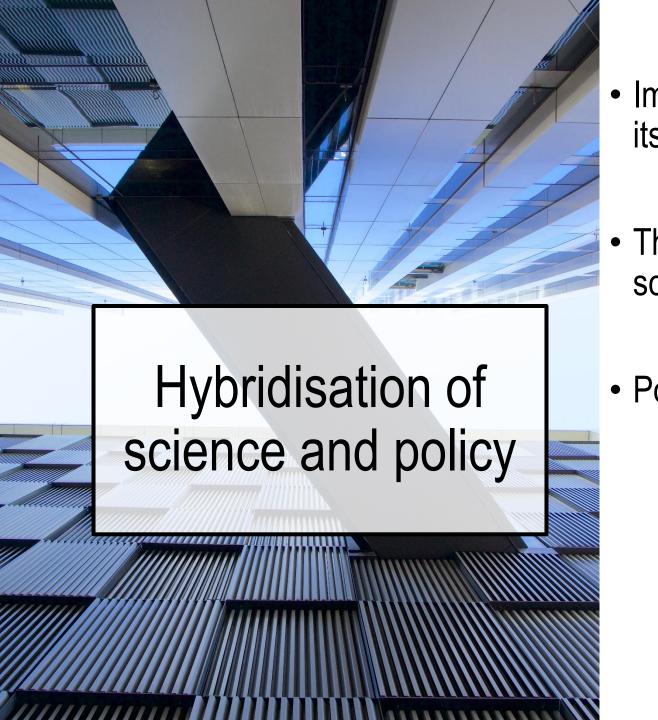




 Recent developments in Science Policy – for example the impact agenda

 Changing nature of policy problems – "normal" science is not sufficient

 The distance between Universities and their socio-economic environments is closer then ever



 Impact on how knowledge is produced and its epistemic qualities

 The difference between experts and scientists is increasingly blurry

Policy knowledge vs scientific knowledge

	PRODUCING ACADEMIC RESEARCH	TRANSLATING RESEARCH	PRODUCING POLICY RESEARCH
Type of activities/strategies	Conducting primary research, publishing	Seminars, workshops, policy briefs, blog, website, media relations	Contracted research, evaluations, rapid reviews
Relationship to context	De-contextualised	Contextualising	Contextualised
Dominant institutional setting	Academic institutions	Academic or policy institutions	Policy institutions
Timescale	Long-term	Long-term or short-term	Short-term
Quality assessment criteria	Reliability	Applicability or reliability	Applicability
Type of impacts	Conceptual	Conceptual or Instrumental	Instrumental



 Experts are legitimate as they navigate the constant tension between technocratic and political accountability

 Expert legitimacy is symbiotic – neither of the two can dominate

 This navigation happens on three levels: epistemic, individual and institutional

-0.21-6.878.87 -9.45 -3.367.02 +180.98 -0.214.75 -6.878.87 -9.45 +122.56 1.54 -3.36+140.04 7.02 +180.98 -0.214.75 Three 'bodies' of expert legitimacy 1.02 +180.98 -0.214.75 78.69 8.24 +740.21 -6.878.87 18.75 9.62 +122.56 -9.451.54 -3.367.02

Epistemic level – production of metrics

Methodological robustness vs applicability

Individual level – distance to policymakers

Informed insider vs independent assessor

Institutional level – cultures of evidence

Technocratic centralisation vs flexible decentralisation



 Science-policy interface is malleable but also characterised by important epistemic and institutional differences

Experts and academics are not the same

 Knowledge practices at the science-policy boundary require flexibility and high tolerance for paradox

METRO

More information

- Smith, K., **Bandola-Gill, J**., Meer, N., Stewart, E., & Watermeyer, R. (2020) *The Impact Agenda: Constructing, Debating and Challenging the Assessments of Research Impact in the UK*. Polity Press
- Bandola-Gill, J. (2020) The Legitimacy of Experts in Policy: Navigating Technocratic and Political Accountability In The Case Of Global Poverty Governance. Evidence and Policy. (online first)
- Bandola-Gill, J. (2019) Between relevance and excellence? Research impact agenda and the production of policy knowledge, Science and Public Policy, 46 (6) 895–905.
- Bandola-Gill, J., & Lyall, C. (2017) Knowledge Brokers and Policy Advice in Policy Formulation. In Howlett M., Mukherjee I. (eds), *Elgar Handbook of Policy Formulation*, pp. 249-265. Edward Elgar Publishing

Thank you!

Feel free to get in touch: Justyna.Bandola-Gill@ed.ac.uk

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@METROprojecteu1

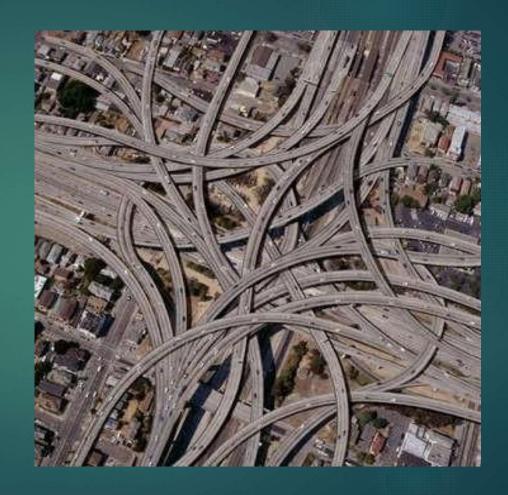
Chile's Technical Parliamentary Advisory Service (BCN-ATP):

SUPPORTING EVIDENCE-INFORMED LEGISLATION

CHRISTINE WEIDENSLAUFER

LIBRARY OF NATIONAL CONGRESS, CHILE

THE INFORMATION DYLEMMA



THE SILOS & PIPES STRATEGY (STOA, 2018)

SILOS: specialized communities of knowledge / expertise





PIPES: communication channels

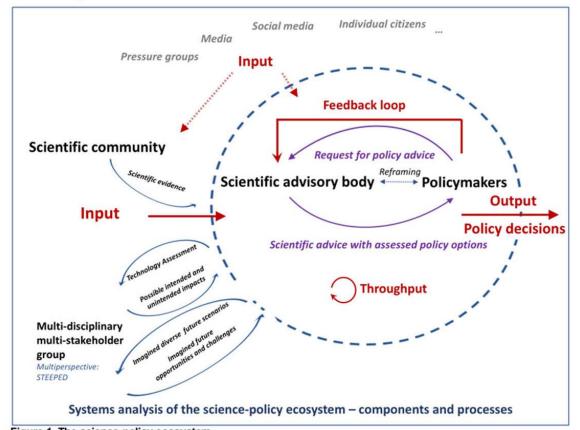


Figure 1. The science-policy ecosystem

Figure 1 depicts what Luhmann calls an 'open system', i.e., one in which the broader society exerts influence. The open system's most relevant actors are:

SCIENCE-POLICY ECOSYSTEM

(Lieve Van Woensel, 2018)

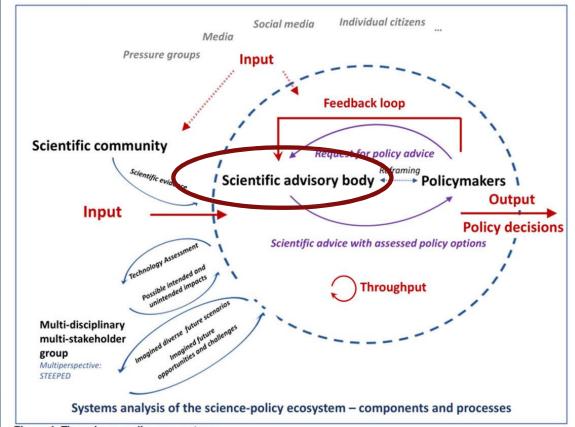


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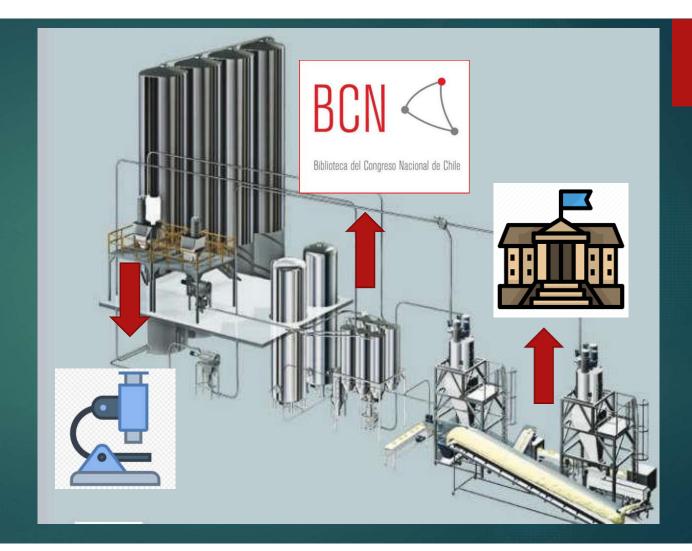


(Lieve Van Woensel, 2018)

BROKERS,

NOT

SCIENCE ADVOCATES

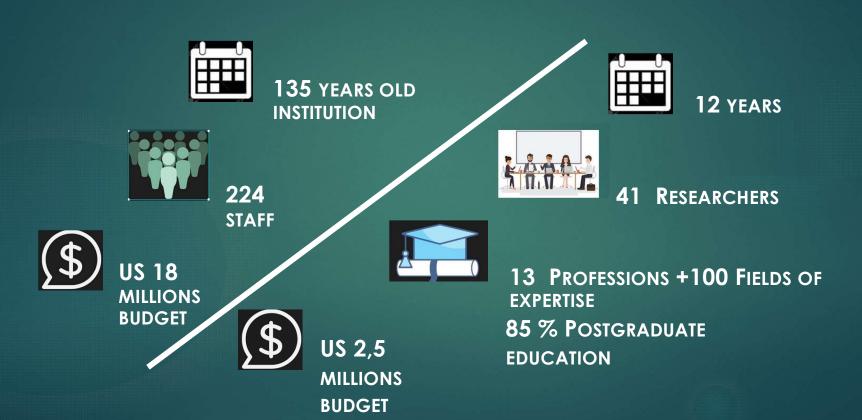


PARLIAMENTARY TECHNICAL ADVISORY SERVICE ("ATP")

- Only technical research institution within National Congress in Chile
- ▶ Goal: to reduce in part the asymmetry of information with the Executive
- Values: neutrality, technical quality, parliamentary oriented approach
- Result: high levels of public trust and recognition since 2007



BCN & ATP IN NUMBERS



KEY ROLE OF BCN-ATP RESEARCH SERVICES

- ► As trusted "key information brokers":
 - 1. Identify and reframe questions from legislators
 - Connect scientific work from research communities w/ legislators interests (silos & pipes)
 - 3. Recognize biases involved while staying neutral
 - 4. Deliver evidence in plain language w/ clear tables of findings
 - 5. In a timely manner

ORGANIZING EVIDENCE INFORMED POLICYMAKING AT THE CHILEAN CONGRESS

- Adapting research methodologies: Frontier reports, experts consultation
- Developing partnerships: ATP-Milenio Project and others
- Strengthening international networks: EPTA, Global TA, IFLA PARL

NEW METHODOLOGIES:

THE FRONTIER **REPORTS***

*English version for EPTA



This document is a translation from Spanish of: Documento Frontera Nro. 01, Available at: http://bon.cl/2crt0

Neurotechnologies: Connecting Human Brains to Computers and Related Ethical Challenges



Since 2013, billions of dollars in public funding have been allocated to the study of the human brains in the United States of America (USA)*, the European Unions, and Chinas. The international competition for creating advancement within this field is analogous to the "Space Race", which look place between the USA and the former USSR in the 20th century.

Large-scale initiatives in brain

The Human Brain Project is one of the m The Human Brain Project is one of the most ambitious EU research programmes. It involves nearly 500 scientists in 100 European universities. The Human Brain Project also engages American and Chinese entities, in the collaborative study of neuroscience, robotics, commuter science, and project in the concomputer science, and other retated fields. Its funding consists of nearly 1.3 billion dollars to be distributed over 10 years.

USA: "The Brain Research through Advancing Innovative Neurotechnologies (BRAIN) Initiative seeks to Tevolutionize our The BRAIN Initiative seeks to Tevolutionize our

indentarial material seeks to revolutionize our undentarial of the human train". It currently involves more than 500 laboratories, in the US abbratories, and it funded primarily through public investment estimated at 56 billion dollars, the constitution of the US abbratories of the US and the US to be distributed over a decade.

China: "Chinese Institute for

Announced in 2016 and launched in 2018, the Chinese Institute for Brain Research is one of the Chinese government's strategic scientific instance. In good is to strategic scientific instance, in good is to specify the brain and brain-the intelligence technologies, it expects to have 1200 researchers and technicians by 2002.

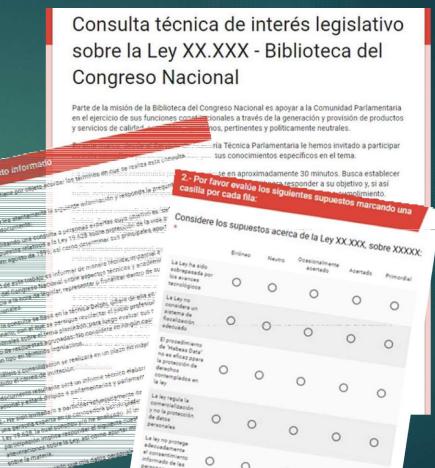
Raimundo Roberta. Email: probata@bon.cl Tel.: (56) 2270 1791

We appreciate the review work done by the following people, in alphabetical order:

- Dr. Römdo Fuentes, Research Director of the Faculty of Medicine, University of Chile
- Cra, Maria Cacilla Hiddepo, President of the National Academy of Sciences, Chile Dr. Rafael Yuste, Orector of the NauroTechnology Center, Cohemica University in New York City, USA.

NEW METHODOLOGIES:

EXPERTS CONSULTATION



ATP-MILENIO INITIATIVE:



INFORME CIENTÍFICO PARLAMENTARIO Biblioteca del Congreso Nacional-Asesoria Técnica Parlamentaria





El agua como recurso vital



El agua de la que disponemos es limitada

Considerando que el planeta está en gran parte cubierto de Consporando que el prancia esta en gran parte cualento de agua, parece dificil pensar en escasez. Sin embargo, el agua disponible para los humanos, y todas las especies que habitan los ecosistemas (biodiversidad), os sumamonto

Más del 97% del total de agua de la Tierra es salada (la mayor parte en los océanos), y sólo el 2,5% restante es dulce. De este poqueño por centaje de agua dulce, casi dos tercios están congelados en los polos o en glaciares y un terciol es agua subterrânea; solo el 12% del agua dulce está en la superficie de la Tierra (Fig. 1). Dicho de otro modor el agua dulce de rios y lagos es solo el 0.007% del

El agua dulce que no está congelada y que fluye por la superficie se acumula principalmente por precipitaciones de lluvia, nieve o deshielos en cuencas de drenaje o cuencas hidrográficas, donde el agua drena por un río o una red de cauces, que desembocan en el mar (exorreicas) o que confluyen a un valle cerrado (endorreicas).

'Un mapeo de las cuencas permite entender los flujos de agua superficiales y calcular los volúmenes de entrada y salida en una zona delimitada".

Overview

- La legislación chilena sobre aguas está en un proceso de actualización, para adaptarla a un confesdo de cambios climaticos y sociales que están medificando el escenario no solo de forma local sino mundial.
- Estos cambios principalmente se traducen en una mayor presión por el acceso al agua potable, la que repercute en la salud humana, cn cl estado del medicambiente, en la salución comúnica e incluso en la distribución teritorial. En definitiva, repercute directamente en el
- Si bien la mayor parte de la población chilena tiene acceso a agus potable y servicios sanitarios, la variación del clima en los ultimos años ha modificado el passaje, la disponibilidad y el acceso del agua de amplias aonas del país.
- Considerando que existe información dentifica y técnica disponible para comprender commander profunded at las implicancias asociadas a estos cambios, a continuación, se cutrego una visión parorámica de la información científica básica, para el estudio del apua y su situación en Chile.

En el norte del país el agua subterránea se utiliza principalmente para consumo humano y mineria. En la zona centro en cambio, es para consumo humano y agricultura, principalmente.

¿Dánde se encuentra el egue en nuestro plenete?

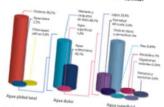


Figure 2: Distribución del agua en el planeta, información ter Tippire E. Destroscorbe dus agus des crybaness, settemación fraducida de After mater cycle: Hithery is the Cartic's Worker's del Servicio Gestageos de Audion Unidos, Original dispossible on https://goo.gt/thesilioC







AND THE FUTURE?

- Consolidate an institutional culture around evidence informed decisionmaking in Congress
- ▶ Strengthen and improve our own skills towards an effective evidence informed advisory service



(Lene Topp, JRC-EC, 2017)

Thank you!



4-6 November, Krakow

Up Next

12.15-12.45

Break

12.45-13.45

Interactive Debate: Implementing Impact Policies



