



# Experiment, translate & transform

Sarah de Rijcke

*Austrian Platform for Research and Technology Policy Evaluation*

24 Jan 2023



## RoRI is a partnership initiative

The Wellcome Trust, Digital Science and the Universities of Sheffield and Leiden have joined forces to create RoRI



# RoRI launches to enable more strategic, open, diverse, and inclusive research

We're thrilled to announce the launch of the Research on Research Institute (RoRI) – an international consortium of research funders, academic institutions, and technologists working to champion the latest approaches to research on research.

Co-founded by the Wellcome Trust, the universities of Sheffield and Leiden, and Digital Science, the RoRI consortium will undertake transformative and translational research on research (also known as meta-research, science of science or meta-science). By analysing research systems and experimenting with decision and evaluation data, tools

## A kinder research culture is possible

Wellcome is right to call out hyper-competitiveness in research and question the focus on excellence. But other funders must follow its move.



The focus on excellence in research can contribute to a negative working culture. Credit: James Brittain/View Pictures/UGG/Getty

Wellcome's director Jeremy Farrar didn't hold back. "The emphasis on excellence in the research system is stifling diverse thinking and positive behaviours," he wrote in a [blog post](#) last month. "The relentless drive for research excellence has created a culture in modern science that cares exclusively about what is achieved and not about how it is achieved." These are strong words, not least because Farrar acknowledges that the UK biomedical funding charity that he leads helped to create such a focus on excellence.

Wellcome is not alone – excellence is everywhere. Germany plans to spend €533 million (US\$581 million) a year on its Excellence Strategy. In the United Kingdom, £2 billion (US\$2.5 billion) of public funding is allocated annually to universities through a suite of funds that support "excellence wherever it is found". Australia's research-evaluation system is called Excellence in Research for Australia. Worldwide, research facilities are being named centres of excellence, and excellence is scattered generously in the pages of universities' strategic plans.

PDF version

### RELATED ARTICLES

Some hard numbers on science's leadership problems



Science needs to redefine excellence



"Excellence R Us": university research and the fetishisation of excellence

### SUBJECTS

Culture Funding Research data

Research management

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PDFを書き換えよう!  
今すぐ無料で試す

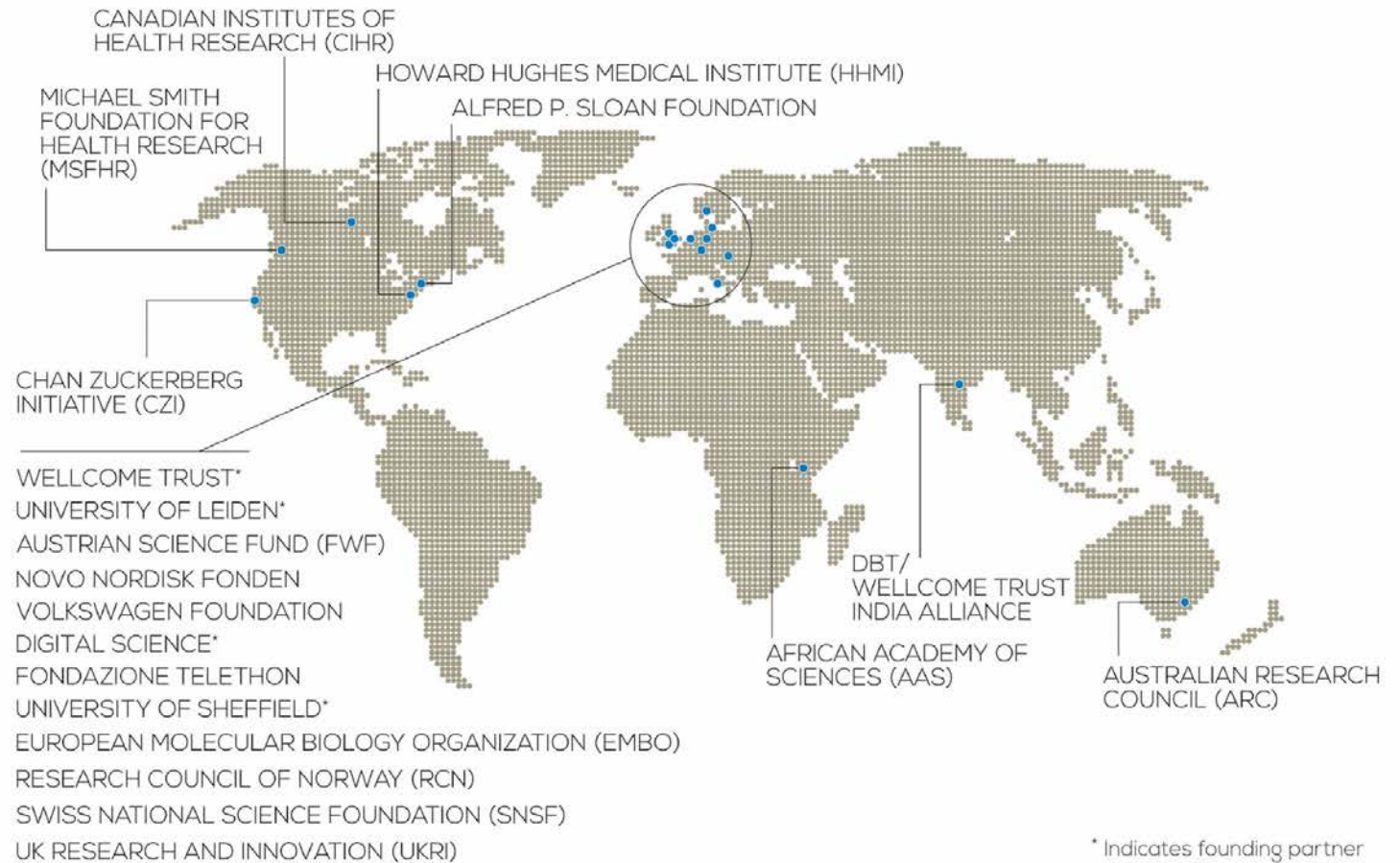
*“Wellcome and its partners in RoRI should be commended for taking an important first step. They have recognized that there are problems in research culture and that these need to be fixed. RoRI will help to probe some of the causes of distress, and suggest solutions. Now, other funders and research-management societies must join the mission...”*

**Nature editorial, 1 October 2019**

# The RoRI pilot consortium

## Founding Partners:

Wellcome Trust  
 Digital Science  
 University of Sheffield  
 CWTS, Leiden University



# Our five aims for the pilot phase (2019-2022)

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*Research  
role*

*Translation  
role*

*innovation  
role*

*Brokerage  
role*

*Facilitator  
role*

# 2019-2022: 3 themes, 5 *flagship* projects

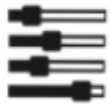
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Decision-making, allocation & evaluation

Balance & prioritisation

Research cultures, open science, EDI

**CRITERIA**



**EXCELLENCE**



**FAIRware**

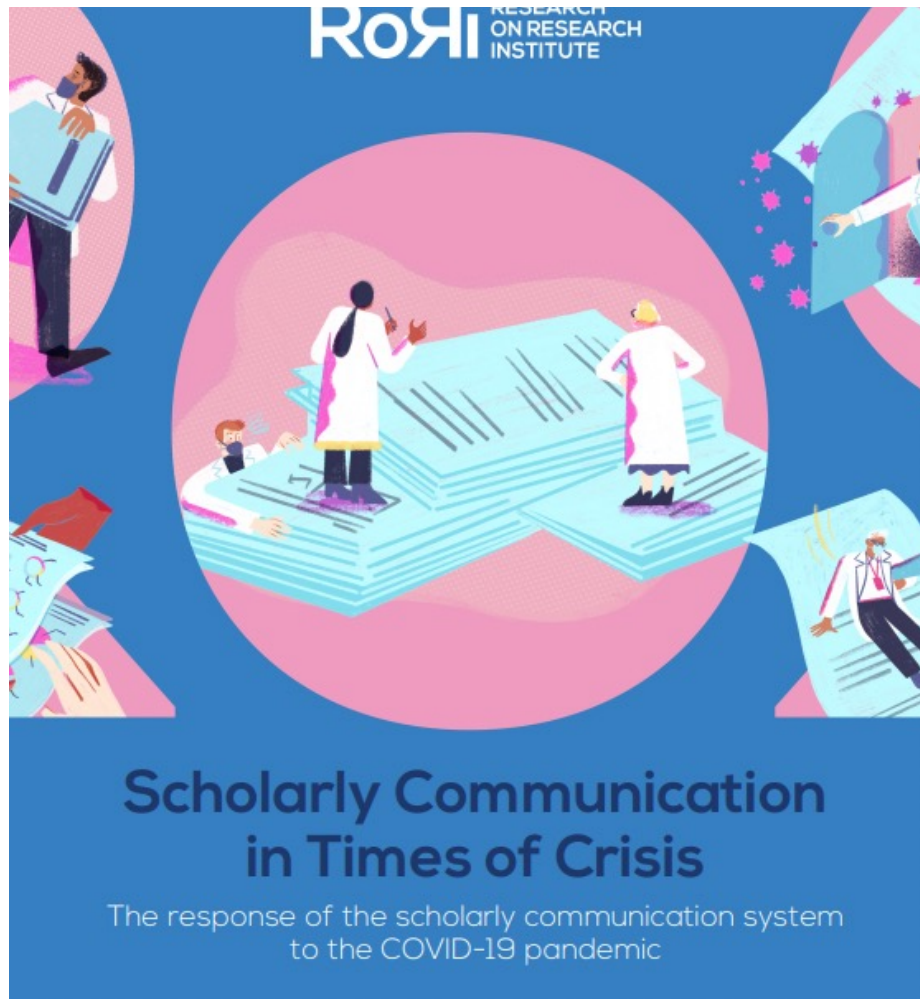


**PATHWAYS**



**RANDOMISATION**





**RoRI Funder Data Platform & CRITERIA project overview**  
 Presentation posted on 20.06.2022  
 Vincent Traag



**Where next for partial randomisation of research funding? T...**  
 Preprint posted on 20.06.2022  
 Tom Stafford



**Research on Research Institute: Independent Review of Pilot Phas...**  
 Report posted on 20.06.2022  
 Ian Carter



**The experimental handbook (Revised ...)**  
 Report posted on 20.06.2022  
 Sandra Bendisicoli



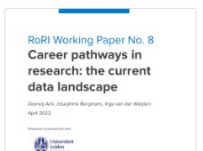
**A checklist for funder experiments with partial randomisation**  
 Online resource posted on 20.06.2022  
 Research on Research Insti...



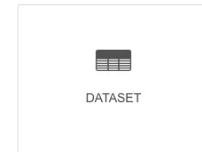
**Can we fix it? Are incremental tweaks to research practices, ...**  
 Presentation posted on 25.05.2022  
 James Wilson



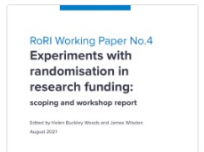
**The pandemic veneer: COVID-19 research as a mobilisation of ...**  
 Preprint posted on 07.05.2022  
 Daniel Hook



**Career pathways in research: the current data landscape (Ro...**  
 Report posted on 18.04.2022  
 Zeynep Anli



**RoRI Working Paper No. 8. Career pathways in researc...**  
 Dataset posted on 18.04.2022  
 Zeynep Anli



**Experiments with randomisation in research funding: ...**  
 Report posted on 18.04.2022  
 Helen Rurklay Woods



**21st Century PhDs: Why we need better methods of tracking...**  
 Report posted on 18.04.2022  
 RoRI Institute



**The changing role of funders in responsible research assessme...**  
 Report posted on 18.04.2022  
 Stephen Curry



Home

## Responsible Research Assessment – a virtual conference from the Global Research Council

November 23 - 27, 2020

Register Now →

### the GRC

ited to promoting the sharing of  
:tices for high-quality collaboration  
encies worldwide. It recognises the  
s previous work, such as the  
'merit review, for developing a  
ling of the topic of responsible  
nt amongst funders. With the  
ic putting a spotlight on the  
national collaboration in scientific  
ocial impact of research becoming  
e is now renewed urgency for  
gether and reconsider how research  
aluated. This conference presents a  
for research funders to come  
ether, learn and look to the future.  
) engaged discussions over the



**Professor Andrew Thompson**

UKRI Champion for International and GRC Governing Board member



**Dr. Molapo Qhobela**

CEO of NRF South Africa and Chair of the GRC Governing Board



# RoRI Working Paper No.3 The changing role of funders in responsible research assessment:

## progress, obstacles and the way ahead

Stephen Curry, Sarah de Rijcke, Anna Hatch, Dorsamy (Gansen) Pillay, Inge van der Weijden and James Wilsdon

November 2020

Produced in partnership with:



**DORA**

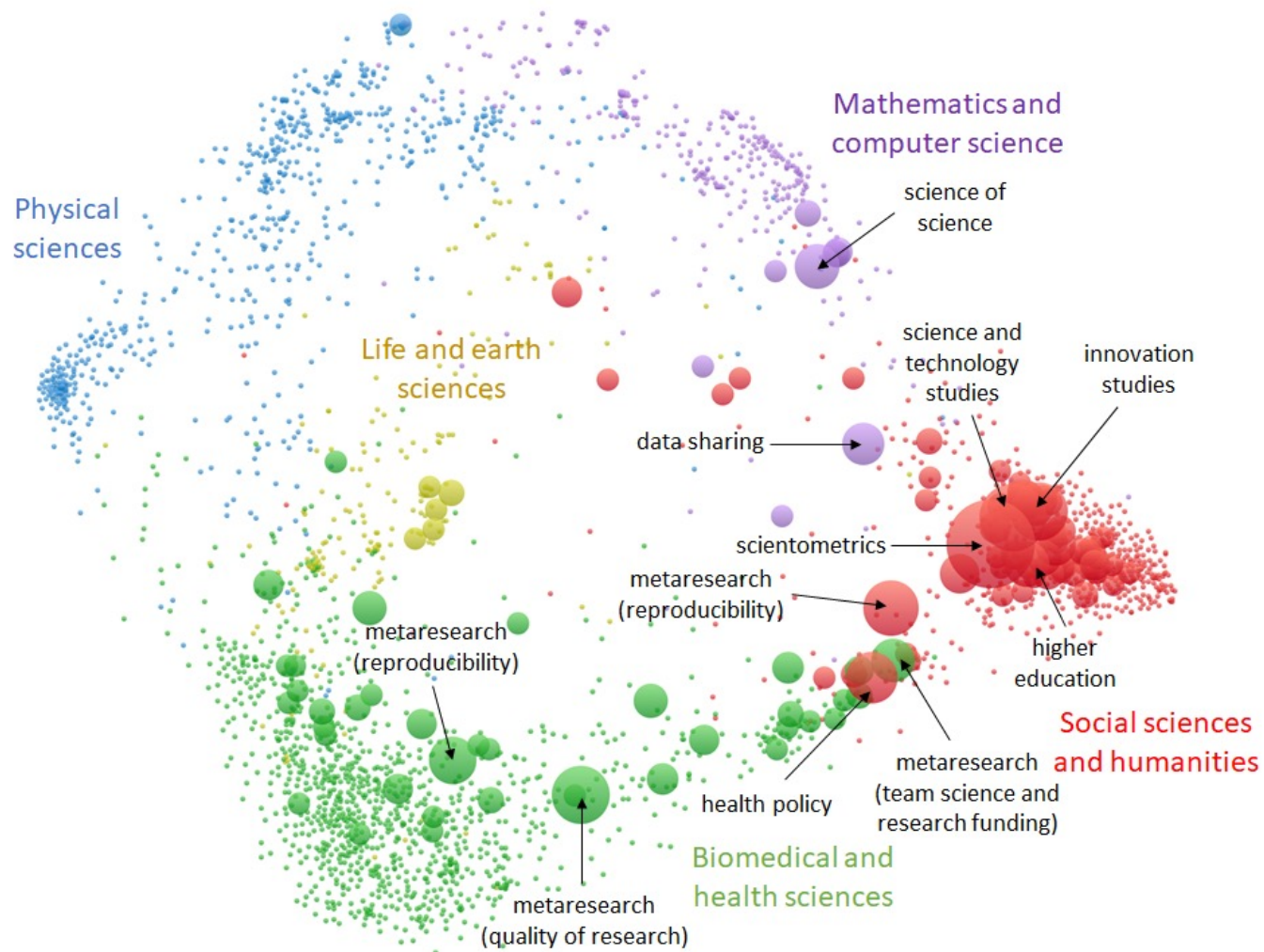


**UK Research and Innovation**



**National Research Foundation**





Go Meta?  
 Mapping the  
 changing  
 landscape for  
 research on  
 research

# RoRI 2022 and beyond

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Mission: Global network for translational RoR – focus on how research is being financed, undertaken, communicated and evaluated

Consolidate and extend consortium; horizon 5-10 years

*Cross-sector, plural, shared ownership*

Transdisciplinary, multi-method, co-design;

Translational work, relevant and applicable by multiple actors;

A safe environment for experiment, taking risks & collaboration;

## Phase 2 structure

### Core partners



12-15 research funders, universities and technology providers. Together these partners govern and sustain the core functions of RoRI.

#### Partnership board

Core partners (including those who are CIC members)  
Strategic direction, priorities, management of funds



#### Sub-committees of Partnership Board

Including Audit & Finance



#### Executive team

Day-to-day operations and oversight of projects



#### RoRI research fellows

Lead individuals from within Core Partners  
Dedicated time on RoRI projects



#### RoRI nodes / labs

Smaller nodes or labs hosted by core partners  
Operating at national or regional system level



#### RoRI Ltd

A Community Interest Company (CIC) under UK law. Brings legal and bureaucratic simplification  
Holds funds. Owns, manages and preserves infrastructure and other IP. Devolves all other responsibilities to the Partnership Board.

#### Board of directors

Nominated from CIC members.  
Light touch governance: audit, accounts



#### Infrastructure

Funder Data Platform, FAIRware etc



#### Project partners

Funders, scholarly communication platforms & publishers; researchers; tech providers.  
Ad hoc project participation & support.



#### International advisory group

Academic, policy, funder & scholarly communication leaders. Source of informal high-level guidance and advice



#### Associate faculty

Leading researchers from universities and institutions worldwide who collaborate on specific RoRI projects





**James Wilsdon, Director of RoRI; Gert V Balling (Novo Nordisk), Katrin Milzow (SNSF), Sarah de Rijcke, Co-Chairs of RoRI**

# RoRI Phase 2: current partners update

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## Confirmed Core Partner & Member of the CIC

University of Sheffield

Novo Nordisk Foundation

SNSF

Digital Science

## Confirmed Core Partner

Leiden University

Volkswagen Foundation

CIHR

Michael Smith Health  
Research BC

FNR-Luxembourg

Wellcome

NWO & ZonMW  
(Netherlands)

## Core Partner likely

Chan Zuckerberg  
Initiative

## Project Partners

FWF-Austria

EMBO

NIHR-UK

ARC-Australia

## Core or Project – live discussions

NRF-South Africa

UK Research & Innovation (UKRI)

Cancer Research UK

SSHRC-Canada

British Academy

Sloan Foundation

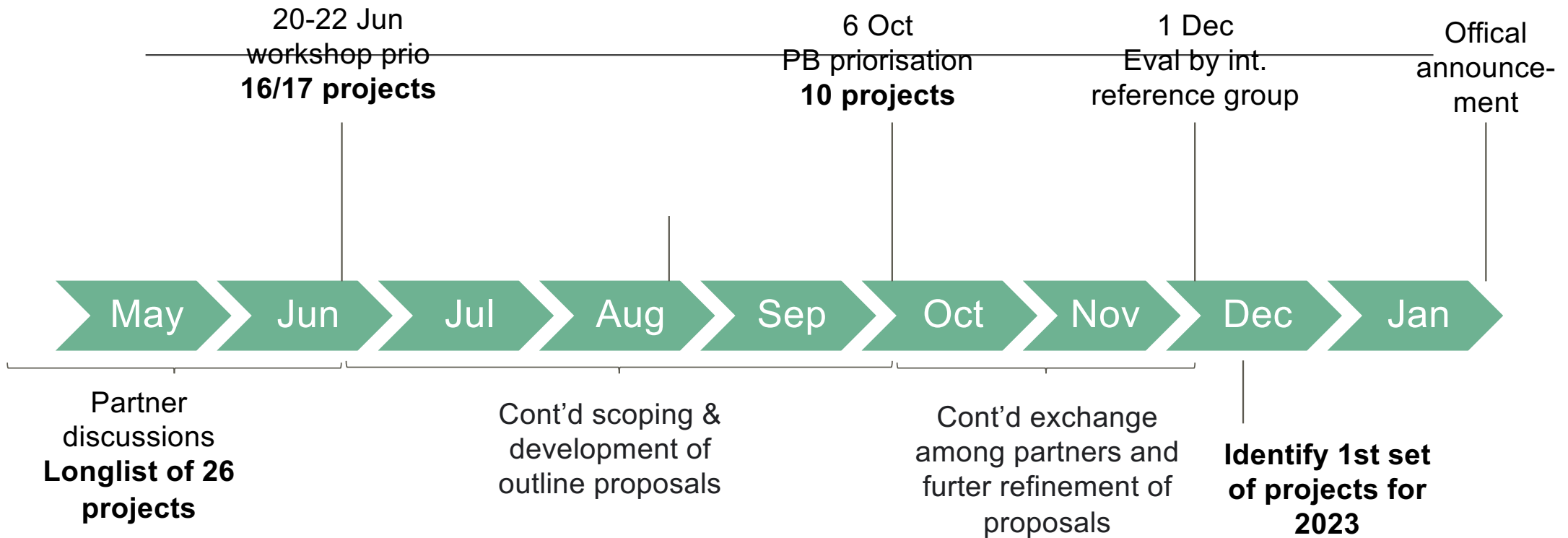
Moore Foundation (US)

India Alliance

Israel Science Foundation

African Academy of Sciences

# Timeline and Milestones





Jon Griffiths + 5 • 21h

## RoRI Phase 2 ideas

Thinking about themes and projects for phase 2

### Experiments with evaluation

wkaltenbrunner 18d

#### Inventory of challenges with this implementation of narrative CVs



**Key ideas:** Create an **inventory of challenges related to the implementation of narrative CVs across different funders, and develop strategies to tackle them** – e.g. inertia of established indicator-centric review practices, resistance to the narrative format by (some) reviewers, inertia of organizational culture, technical difficulties, effects of disciplinary culture on use etc.

### Infrastructures & Data Sharing

Helen Buckley Woods 7d

#### Research on Research on Research: a meta RoRI case study



**Key idea(s):** What can we learn from our uncommon modes of working as a large scale multi-stakeholder research consortium that will add to knowledge on practice/research co-produced projects? Considering different vectors of engagement, what lessons have we learned about bringing different knowledge types together, conducting co-produced

### Research Priorities & Portfolios

Jon Griffiths 2mo

#### Engaging the citizen. The impact of crowd knowledge on science



**Key idea(s):** A research study funded by a Marie Curie grant, led by Cindy Lopez-Bento (Head of Science of Science at FNR and Professor at the University of Leuven). 'The project...aims to increase the understanding we have of crowd science. [...an approach that allows a wide base of (non-scientific) volunteers to participate in research projects.] The project will, for example, use

### Impacts, Indicators & Culture Change

Jon Griffiths 2mo

#### The productivity and public value of research



**Key idea(s):** Over the last decade we have seen a tendency to connect more directly the setting of research agendas with the attainment of socio-economic goals through devices such as "grand challenges" and "mission driven research". At the same time, there are some indications that

### About

Jon Griffiths 2mo

#### About this board



Please comment and vote on the cards, as well as adding your own ideas.

#### Colour coding:

- Orange: Continuation and development of phase 1 projects
- Purple: Ideas from pilot phase long-list
- White: New ideas
- Blue: Infrastructure, networks and capacity-building



Add comment

# Members of international reference panel

- [Fiona Fidler](#), Professor & ARC Fellow, University of Melbourne & co-founder AIMOS
- [Sergio Salles-Filho](#), professor at University of Campinas, Brazil
- [Chiara Franzoni](#), Professor in the School of Management at the Polytechnic of Milan
- [Chonnetia Jones](#), President and Executive Director, Addgene
- [Vincent Larivière](#), professor of information science at the University of Montréal.
- [Danil Mikhailov](#), Executive Director, [Data.org](#)
- [Brian Nosek](#), Director, Center for Open Science
- [Laura Rovelli](#), Coordinator, Latin American Forum for Scientific Evaluation (FOLEC) and member of the Board of DORA
- [Cassidy Sugimoto](#), Professor and Tom and Marie Patton School Chair in the School of Public Policy at Georgia Institute of Technology



# Evaluating a narrative CV pilot project -- Wolfgang Kaltenbrunner (CWTS)

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- SNSF has conducted a narrative CV experiment in 2020
- Narrative sections, no full publication list, regulated use of metrics...
- Lots of data: Survey with applicants and reviewers, interviews, participant observation



# Participant observation

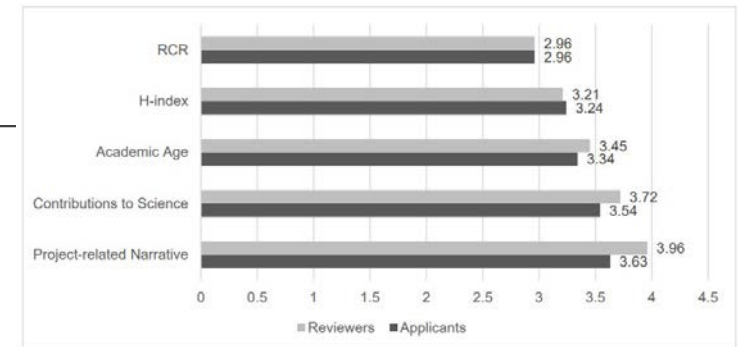
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- Reviewers regularly fell back on “traditional” information available online
- Narrative elements more used to supplement more traditional types of info
- ... but note that panel members were more senior and partly members of SNSF...



# Surveys and interviews

- **CV preferences seem to partly be a question of seniority**
  - Applicants and reviewers with less experience expressed systematically more positive opinions about the narrative elements
- **CV preferences partly a question of status (type of reviewer)**
  - Conflict about the authority to decide how peer review should be done
  - Reviewers who are members of SNSF were much more negative about narrative elements and other innovations than guest reviewers and external reviewers (who screened individual applications)



**Fig 1 Mean ratings of usefulness per SciCV elements** | The figure shows the mean usefulness ratings per SciCV element by applicants and reviewers on a scale from 1 (not at all useful), 2 (slightly useful), 3 (moderately useful), 4 (very useful), to 5 (extremely useful).

SciCV element	Applicants			Reviewers				
	Experience <sup>1</sup>		1 <sup>st</sup> time	Experience <sup>2</sup>		Type		
	Junior	Senior		Junior	Senior	External reviewer	Panel member	RC member
Project related narrative	3.87	3.44	4.13	4.05	3.53	4.14	3.56	3.05
Contributions to science	3.79	3.34	3.72	3.79	3.56	3.86	3.33	3.05
Academic Age	3.57	3.17	3.46	3.40	3.54	3.43	3.89	3.36
H-index	3.30	3.19	3.02	3.33	3.19	3.22	3.56	3.00
RCR	2.98	2.94	2.80	3.19	2.69	2.91	3.43	2.95
Omission of publication list	3.91	3.97	4.41	4.13	3.19	4.27	4.33	2.32
Overall usefulness for assessment	-	-	4.02	3.78	3.26	3.93	3.67	2.64

<sup>1</sup> For applicants "junior" is defined as <2 preceding SNSF project applications and "senior" as ≥ 3 preceding SNSF project applications.

# Conclusions so far

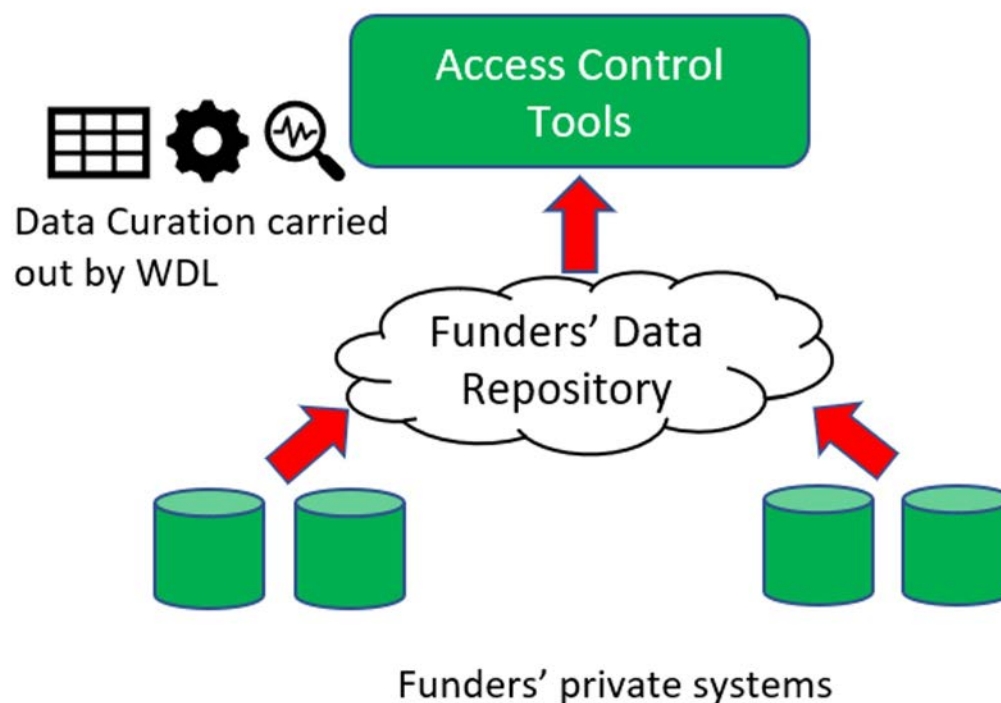
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- Changing CV practices will involve rethinking the entire design of review process, incl. composition of panels, time available for review
- Practices are malleable, but are likely to change only slowly
- Need to disentangle the politics of reform from the politics of peer review
- We don't know how learning effects on the applicant side will affect new CV practices once they stop being experiments
- **... but this is just the beginning!**

# Funder Data Platform & CRITERIA

## Vincent Traag (CWTS)

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# CRITERIA project

## Gender differences in research funding



**IndiaAlliance**  
DBT wellcome

novo  
nordisk  
**fonden**  
Benefiting people and society



Australian Government  
Australian Research Council



UK Research  
and Innovation



CIHR | Canadian Institutes of  
Health Research  
IRSC | Instituts de recherche  
en santé du Canada



MICHAEL SMITH FOUNDATION  
FOR HEALTH RESEARCH

BC's health research funding agency



The Research Council  
of Norway

# Funding programmes

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Single applicants only  
(i.e. not team-based)



Focused on research  
(i.e. not equipment,  
infrastructure, travel)



Open to all research  
(i.e. not specific call on  
specific topic)



Minimum data  
availability

**In total 44 funding programmes across 9 funders**





# Two tracks

Off-platform track



VS



On-platform track

- No personal details
- Only funding rates per gender

Simple model, no controls

- Personal details
- Funding decision (yes/no)
- Enriched by linking to Dimensions
  - Publication statistics
  - Citation statistics
  - Field information
  - Matched institutional information

Model with control variables

**IndiaAlliance**  
**DBT wellcome**

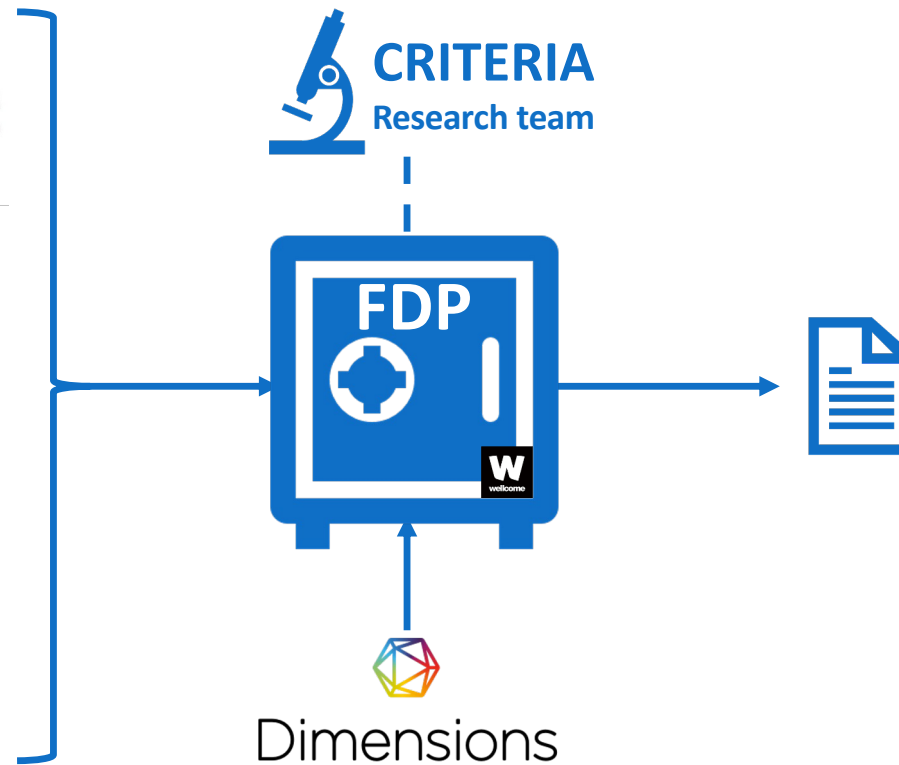


novo  
nordisk  
**fonden**  
Benefiting people and society




MICHAEL SMITH FOUNDATION  
FOR HEALTH RESEARCH

BC's health research funding agency



## All available datasets

Search 

+ Add dataset

Filter by

Organisation 

Project 

1 - 4 of 4 datasets

< Prev

1

Next >

DATASET NAME 	ORGANISATION 	LAST UPDATED 	SIZE (MB) 	FORMATS 
CRITERIA_MichaelSmithHealthResearchBC	Michael Smith Foundation for Health Research	2022-02-05	< 1	csv
CRITERIA_IndiaAlliance_data	India Alliance	2022-01-11	3.2	csv
CRITERIA_WellcomeTrust	Wellcome Trust	2021-12-16	11.3	csv
NNF application data	Novo Nordisk Foundation	2021-12-14	36.0	json

# Comparison

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Odds ratio of funding men over women

{

> 1

men more likely to be funded than women

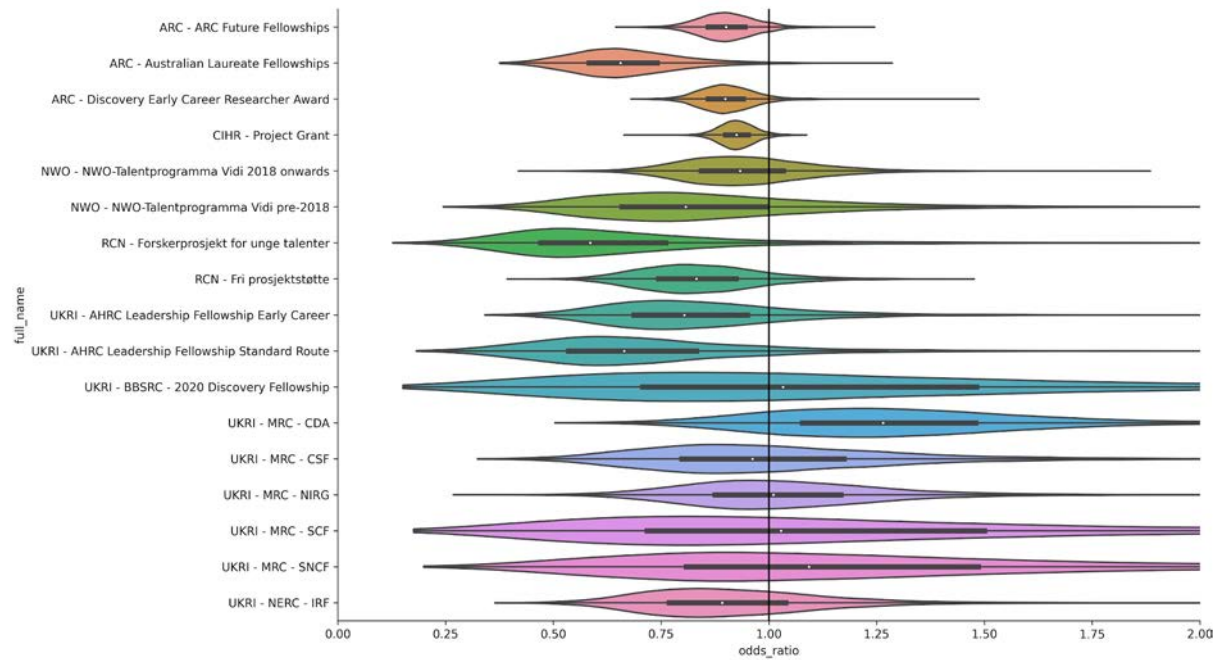
≈ 1

men equally likely to be funded as women

< 1

men less likely to be funded than women

# No clear gender differences



## Criteria that may affect gender differences



Interview stage



Letter of recommendation



Explicit diversity measures

# Thank you for your attention!

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Join us: [www.researchonresearch.org](http://www.researchonresearch.org)



## Sarah de Rijcke



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