



# The good, the efficient, and the open

changing research workflows and the need to move from Open Access to Open Science

Bianca Kramer & Jeroen Bosman

Geneva Workshop on Innovations in Scholarly Communication (OAI9), Geneva, June 18, 2015



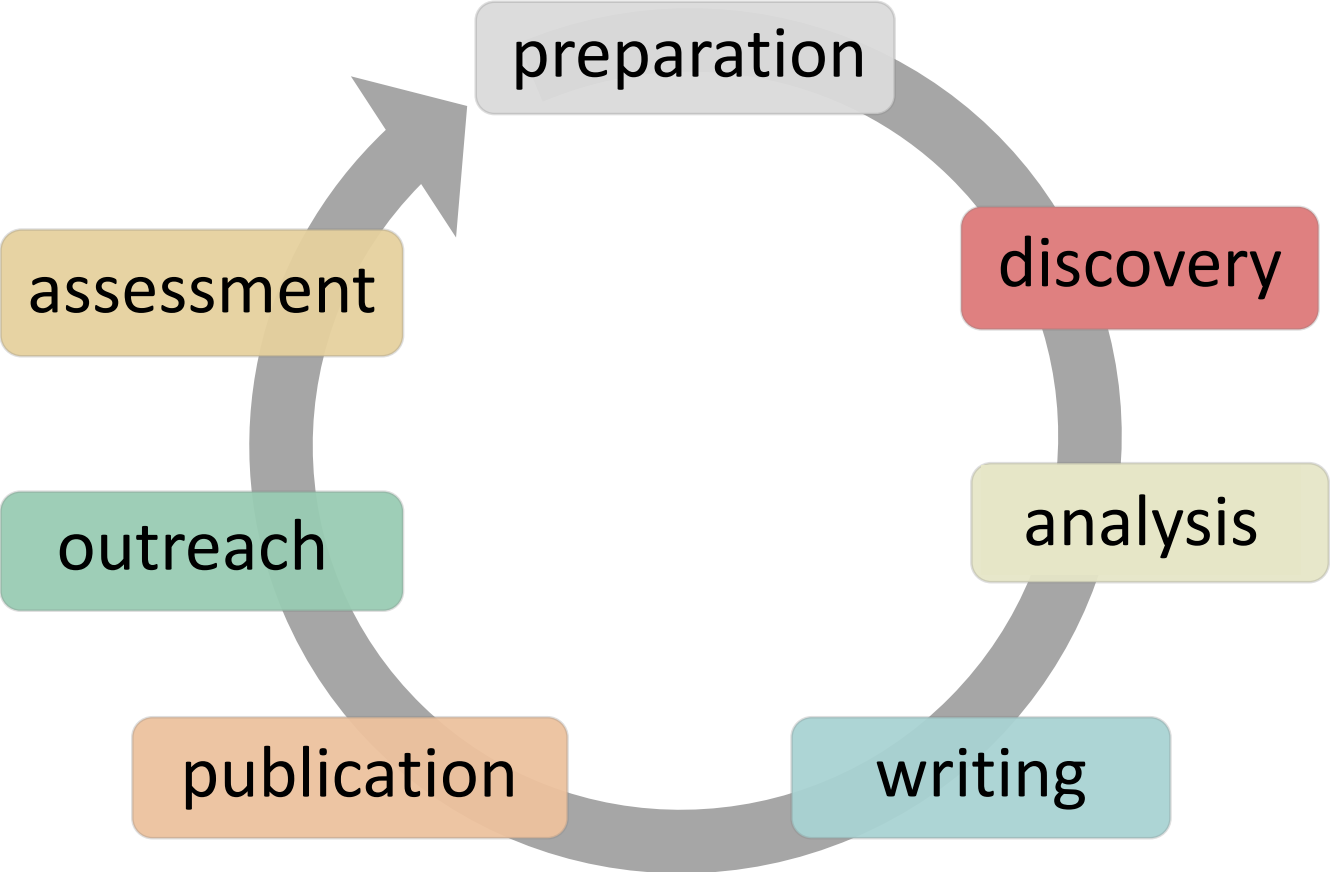
(except logo's)



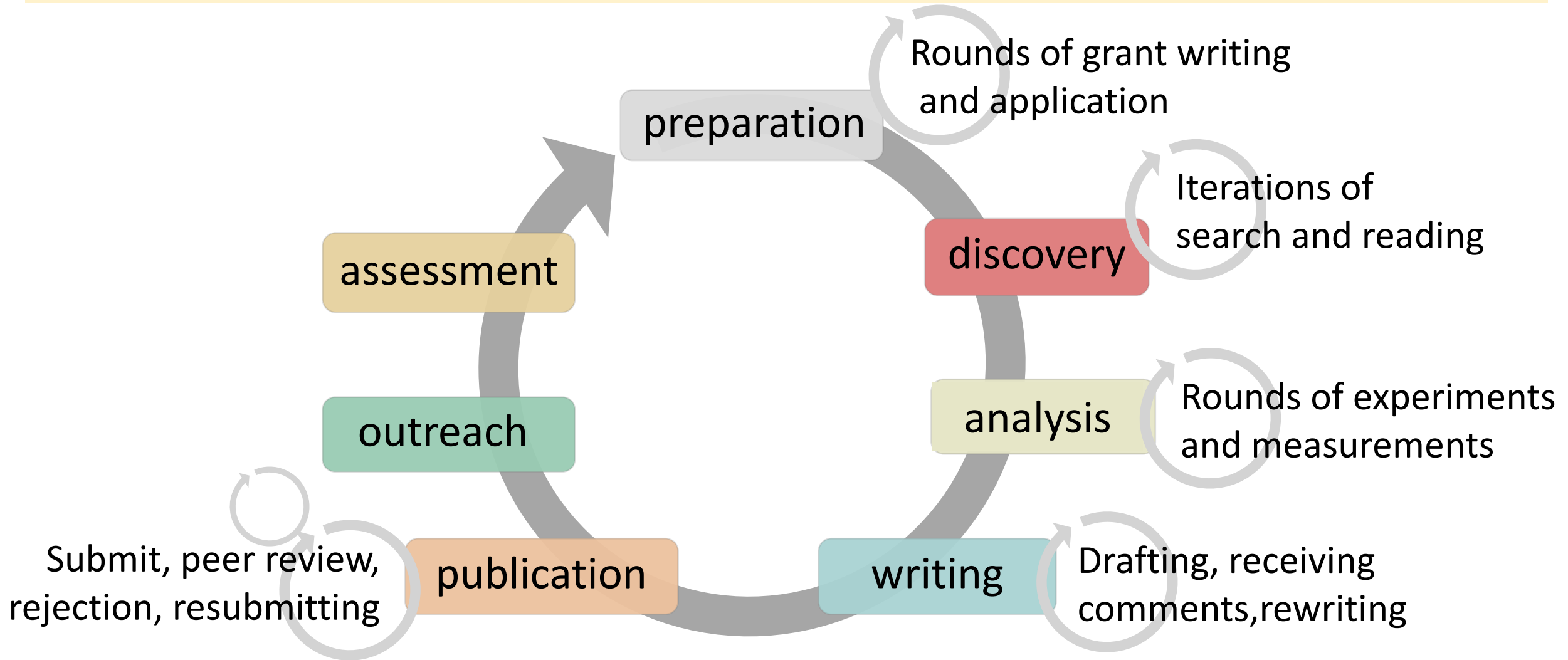
@MsPhelps  
@jeroenbosman



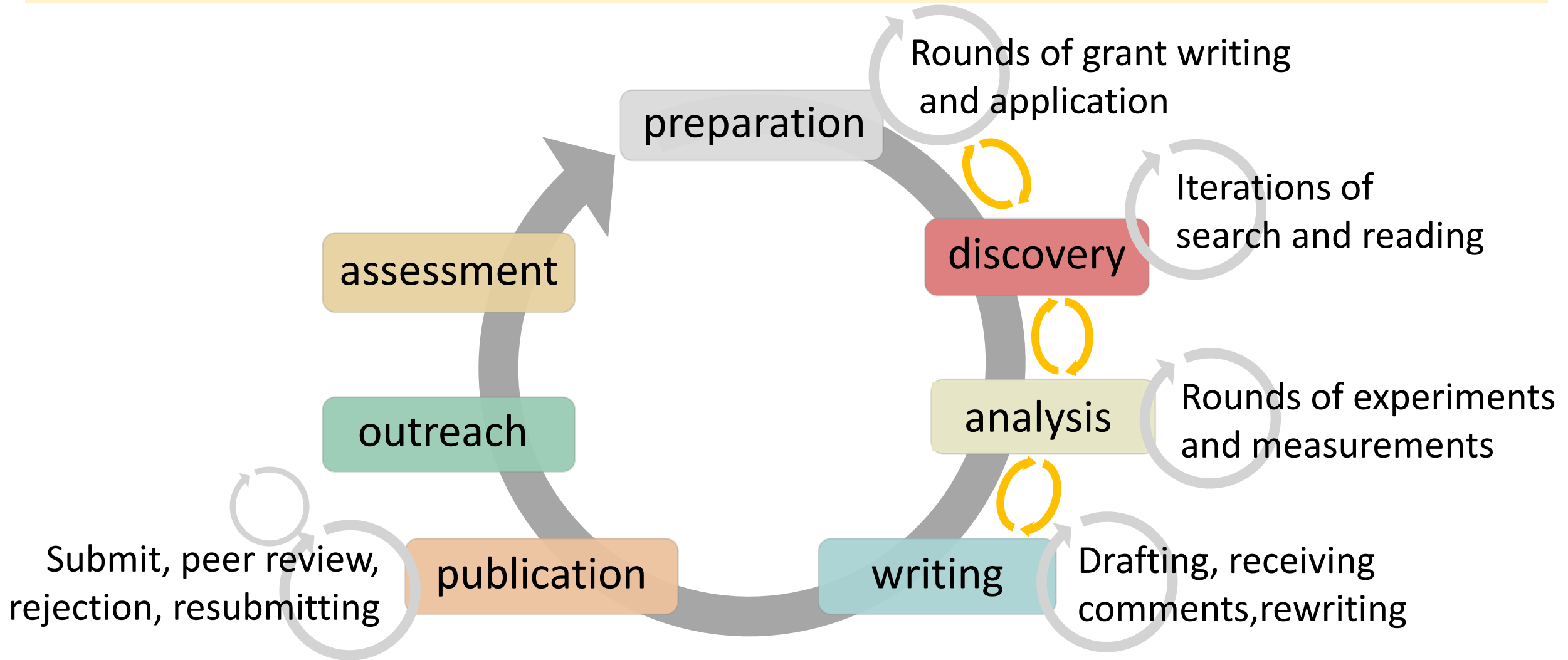
# Simple cyclic model of the research workflow



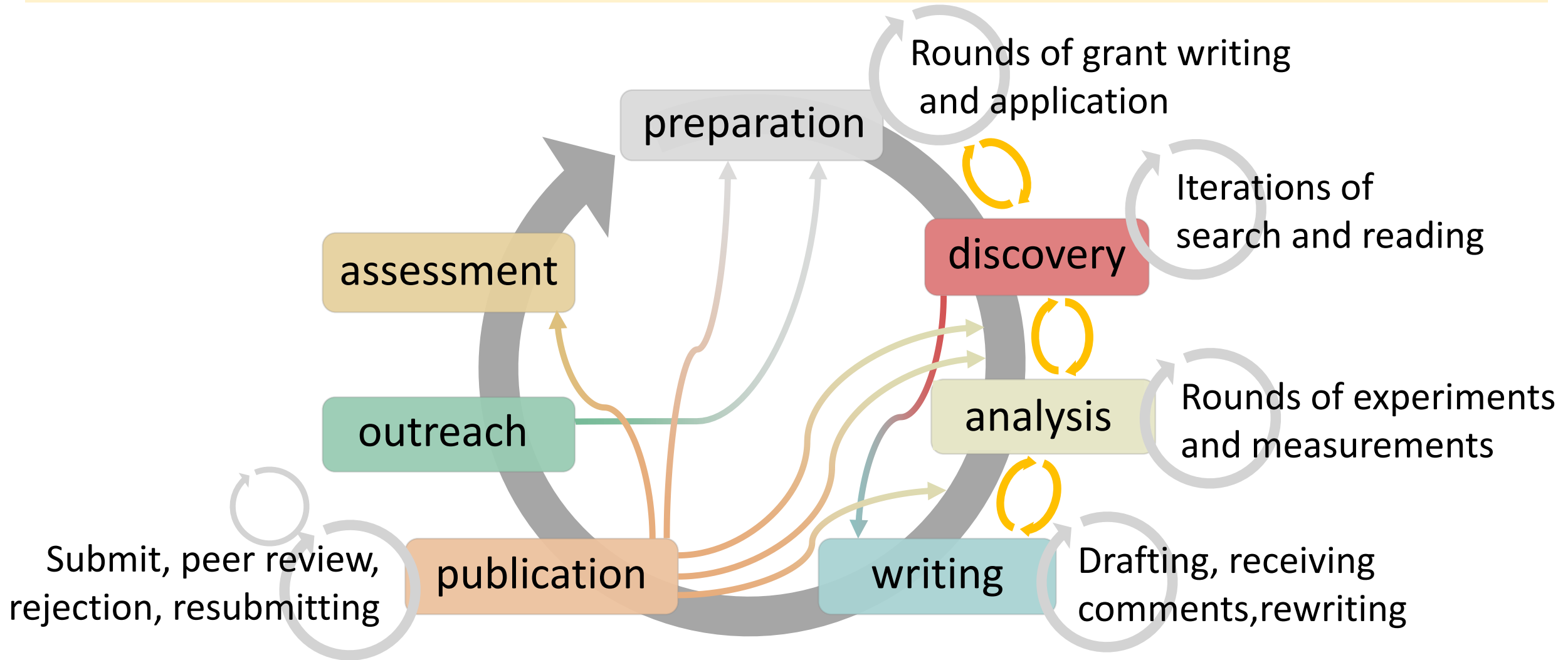
# Multi-cyclic model of the research workflow



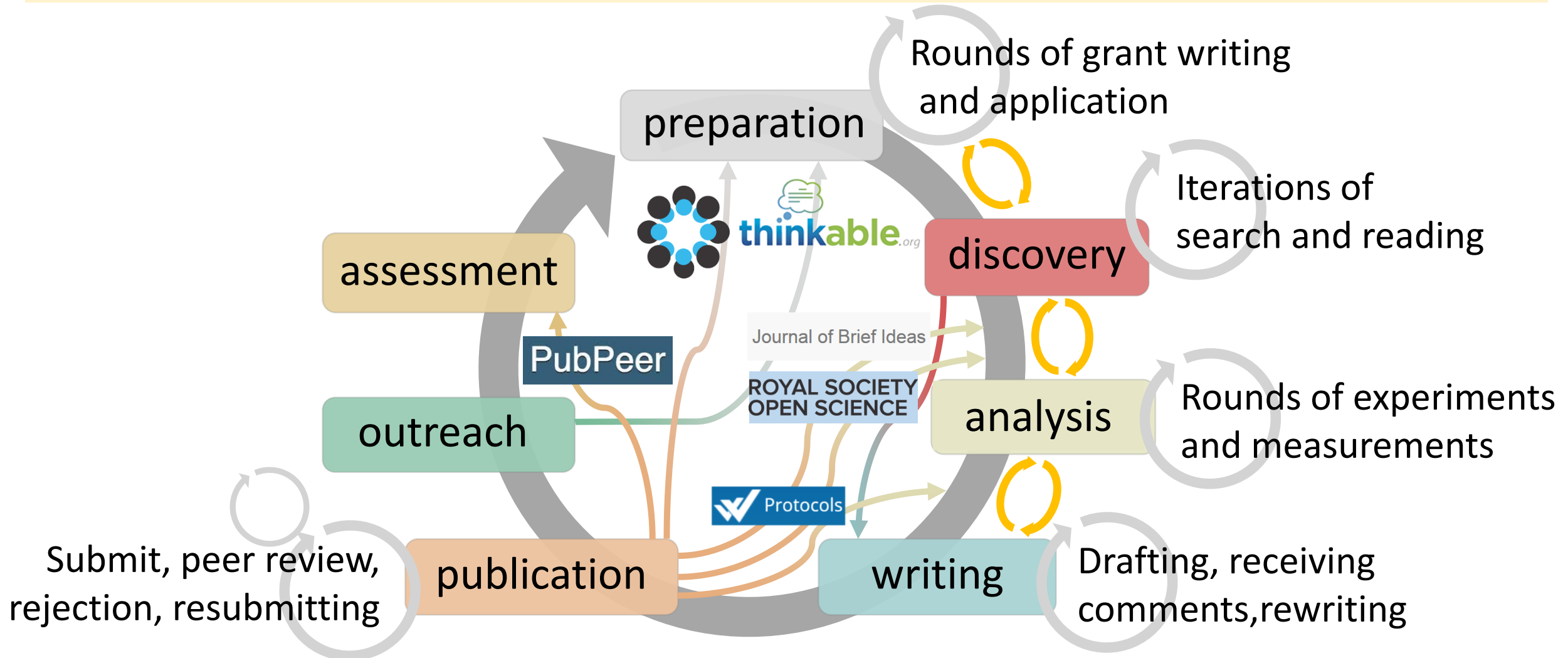
# Multi-cyclic model of the research workflow, with loops



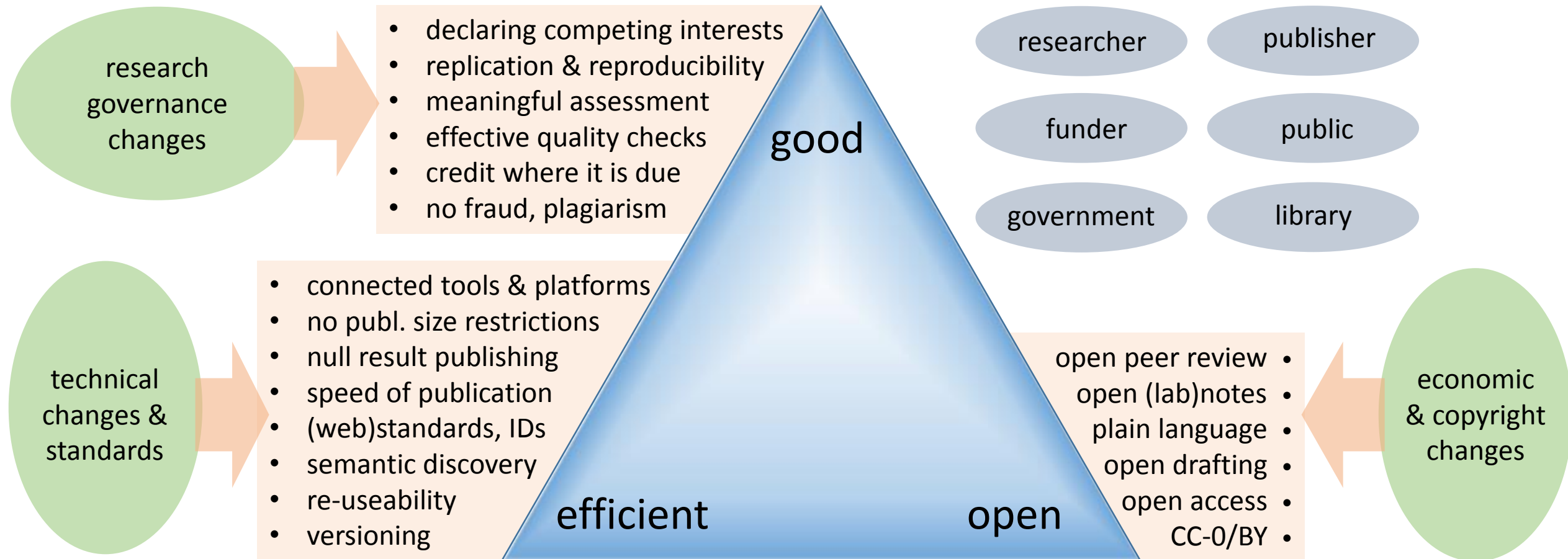
# A multi-cyclic, multi-ordered model of the research workflow, with loops



# A multi-cyclic, multi-ordered model of the research workflow, with loops

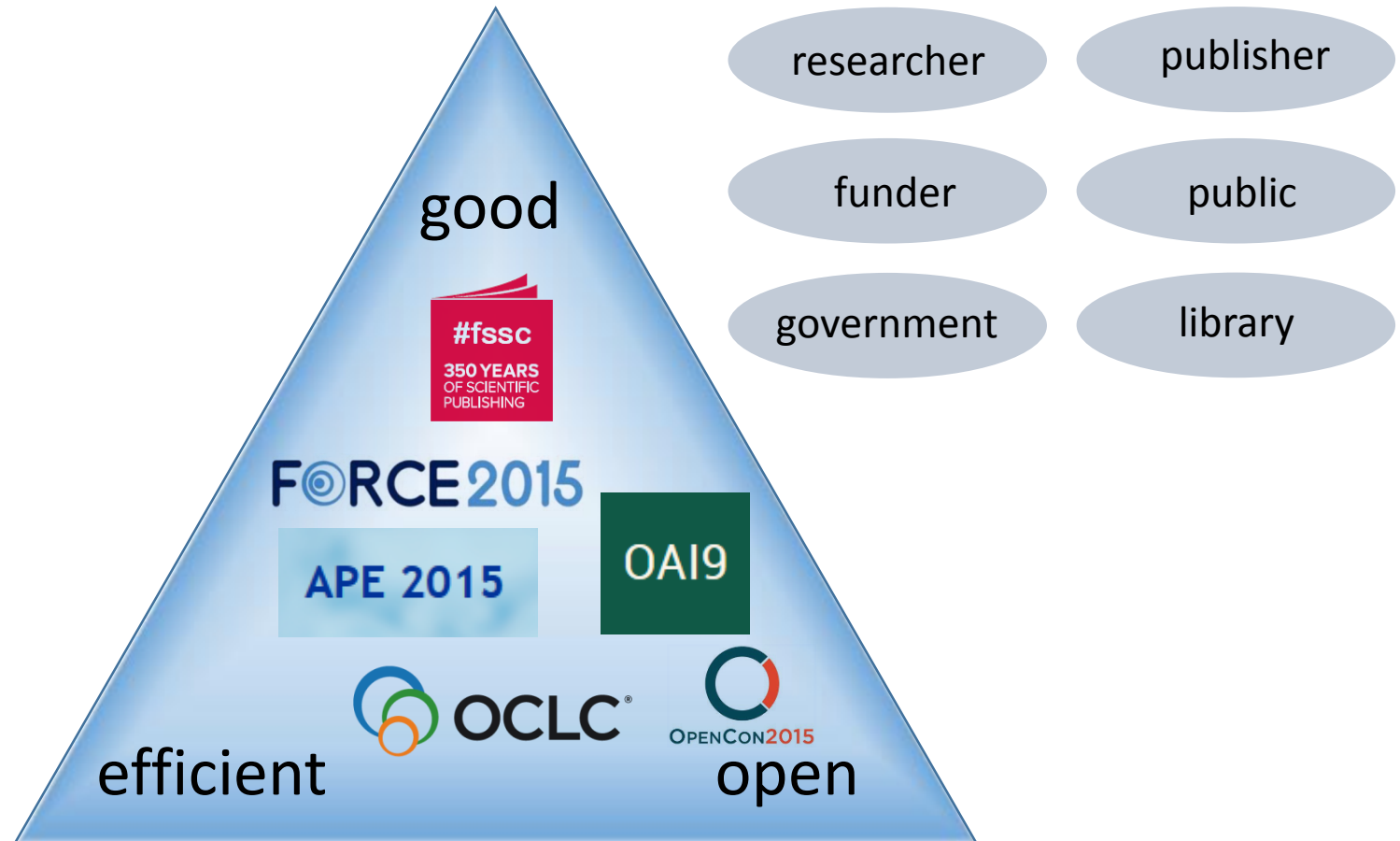


# Three goals for science & scholarship (G-E-O)

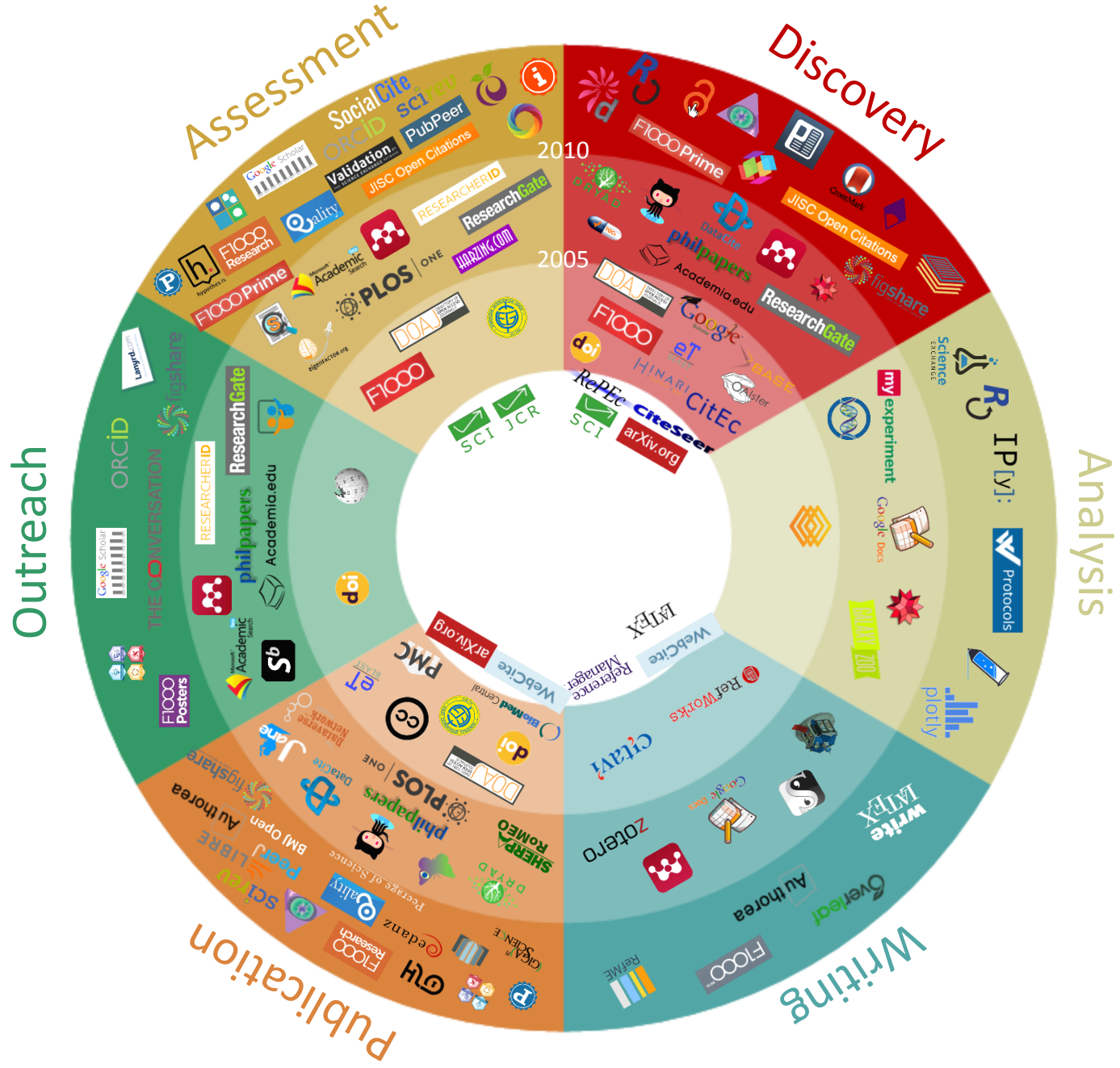




# Ongoing discussions



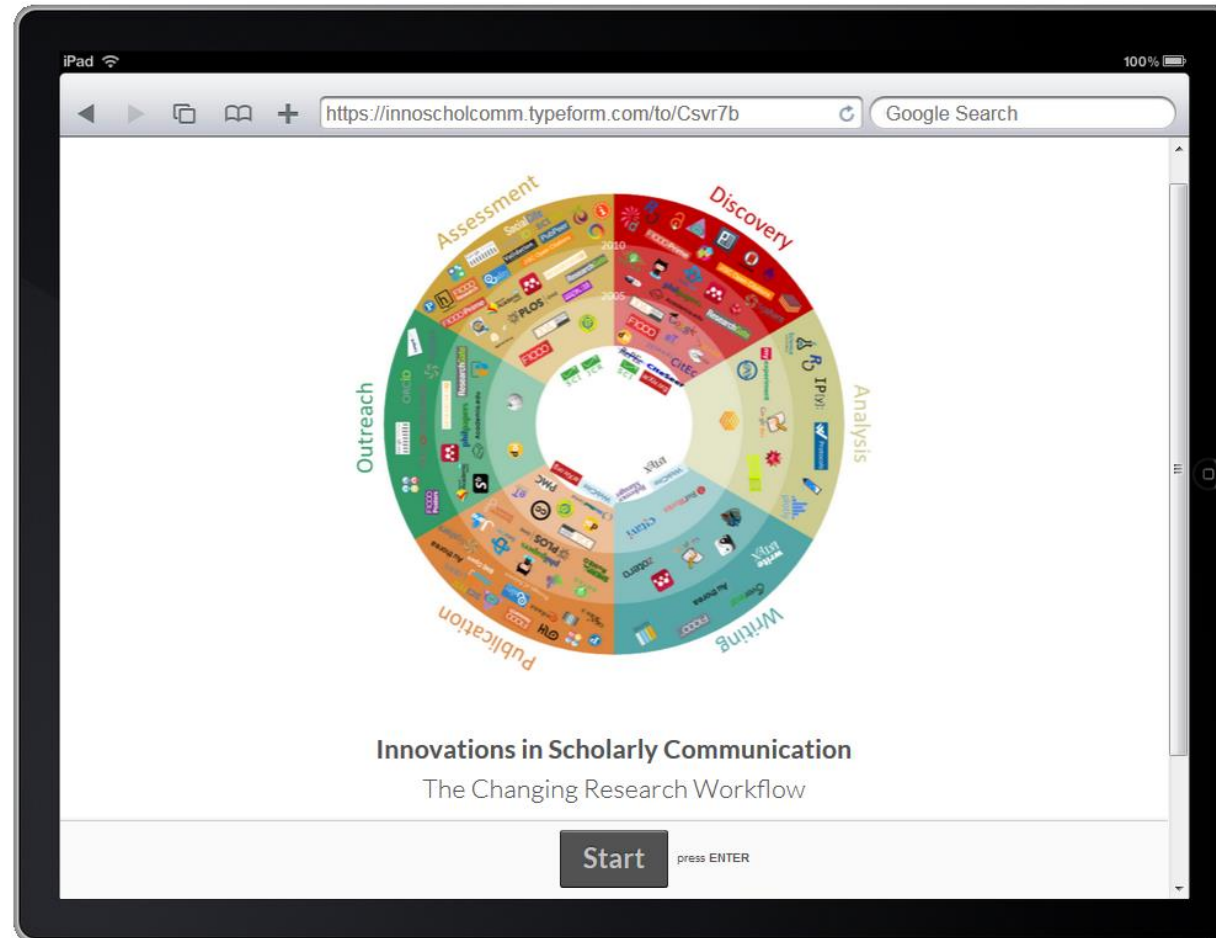




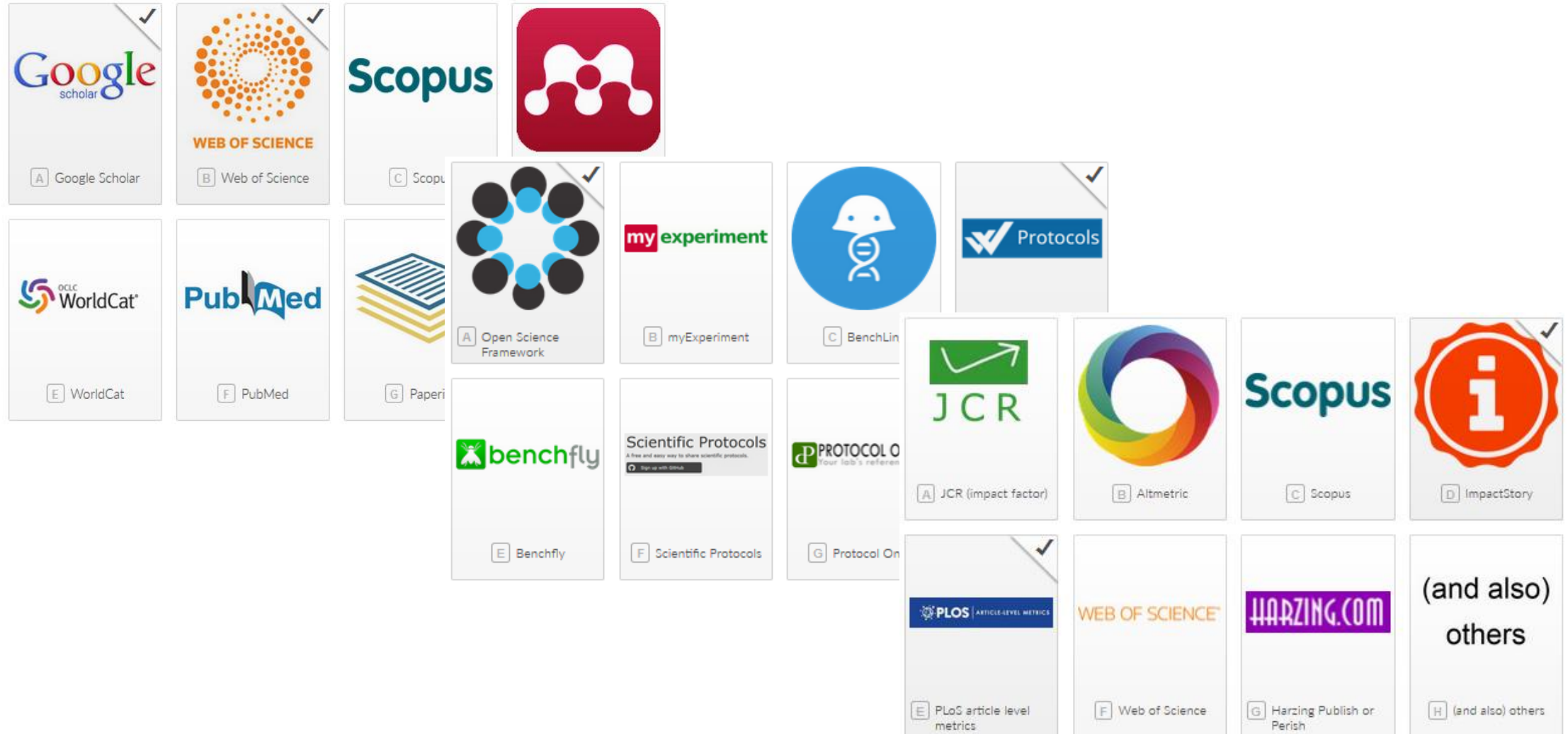
# Changing research workflows



# Survey: scholarly communication tools



# Survey: scholarly communication tools



# Survey: 1<sup>st</sup> 1000 results

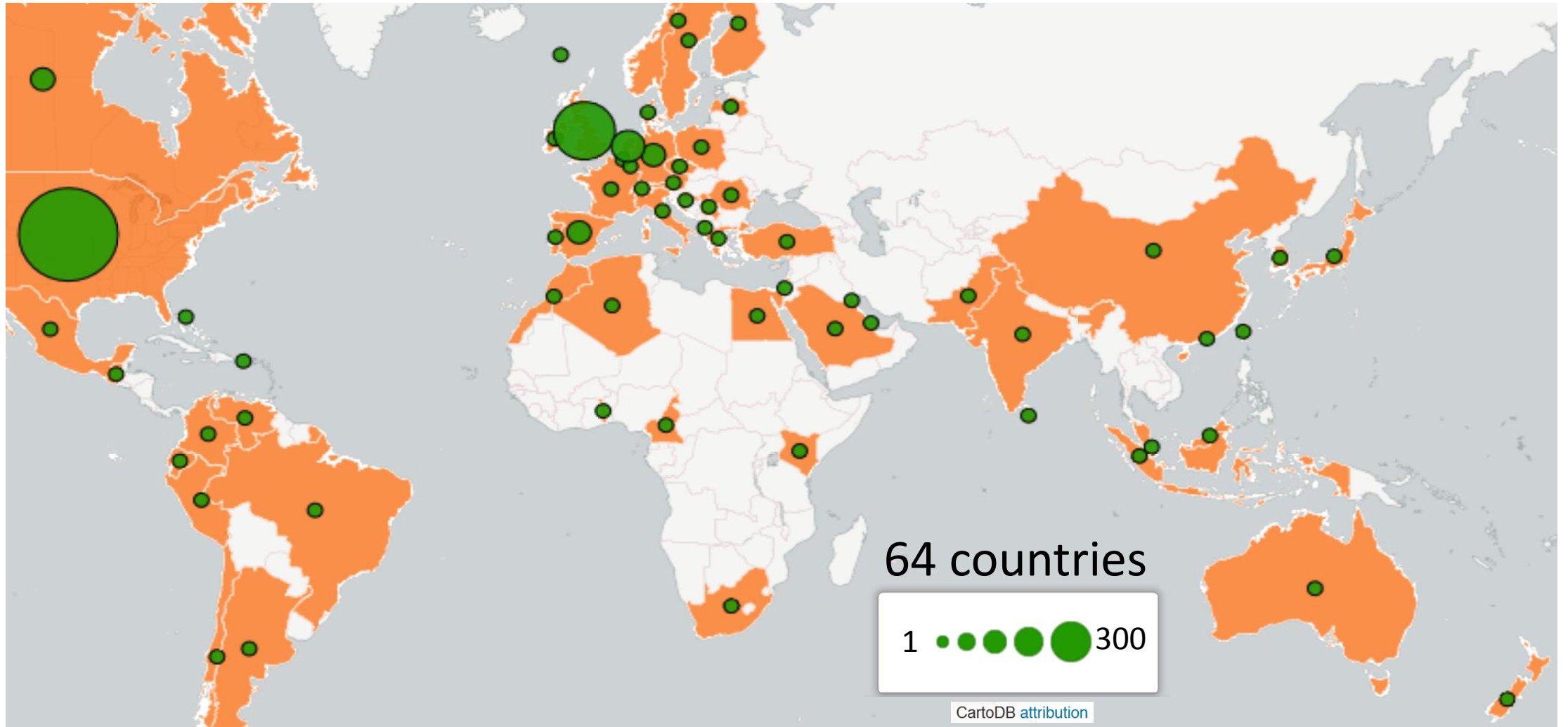
## What is your research role?

1	Librarian	262 / 26%
2	Professor / Associate professor / Assistant professor	227 / 23%
3	PhD student	213 / 21%
4	Postdoc	127 / 13%
5	Bachelor/Master student	58 / 6%
6	Other	58 / 6%
7	Industry / Government	31 / 3%
8	Publisher	24 / 2%

## What discipline are you working in?

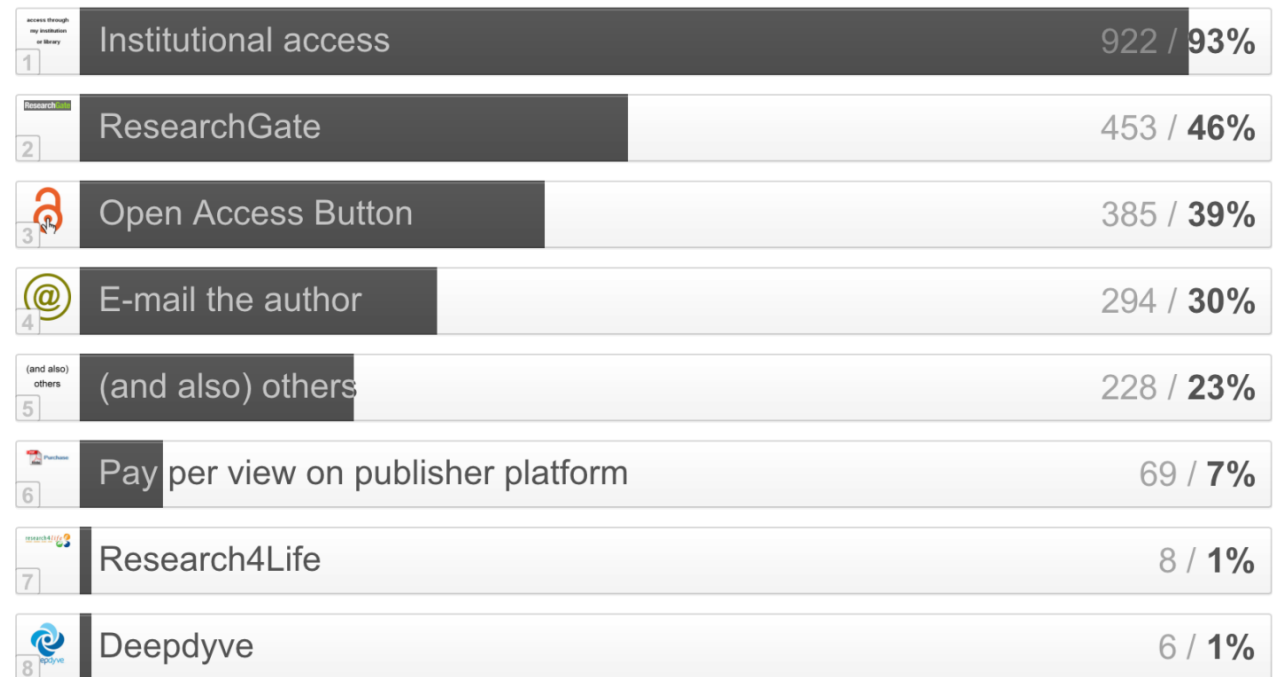
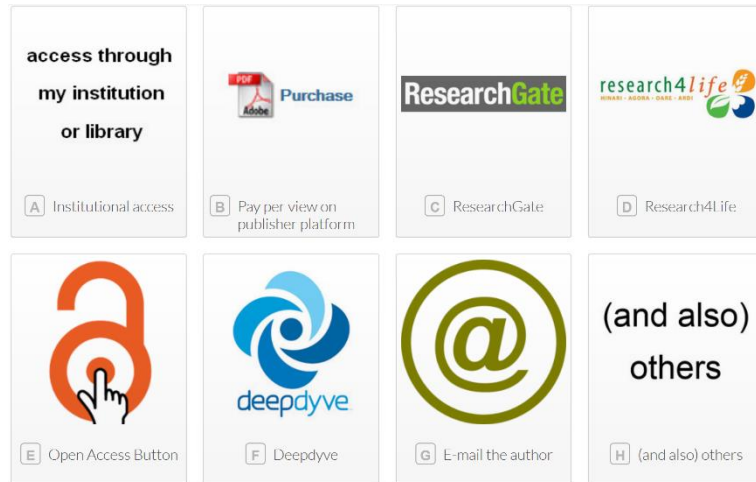
1	Social Sciences & Economics	330 / 33%
2	Life Sciences	322 / 32%
3	Engineering & Technology	249 / 25%
4	Arts & Humanities	181 / 18%
5	Medicine	177 / 18%
6	Physical Sciences	167 / 17%
7	Law	48 / 5%

# Survey: 1<sup>st</sup> 1000 results



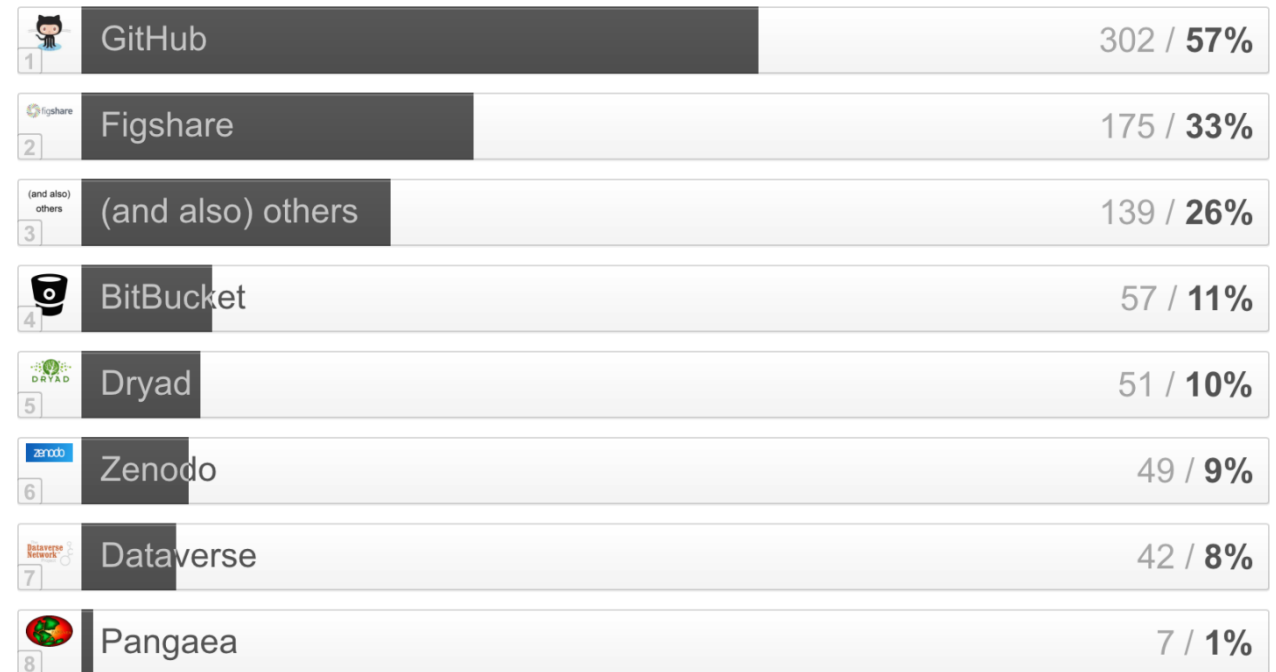
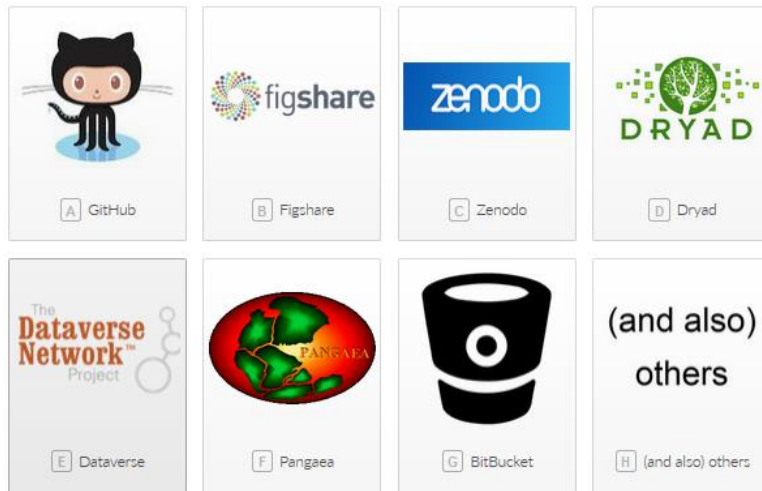


# Breakdown examples



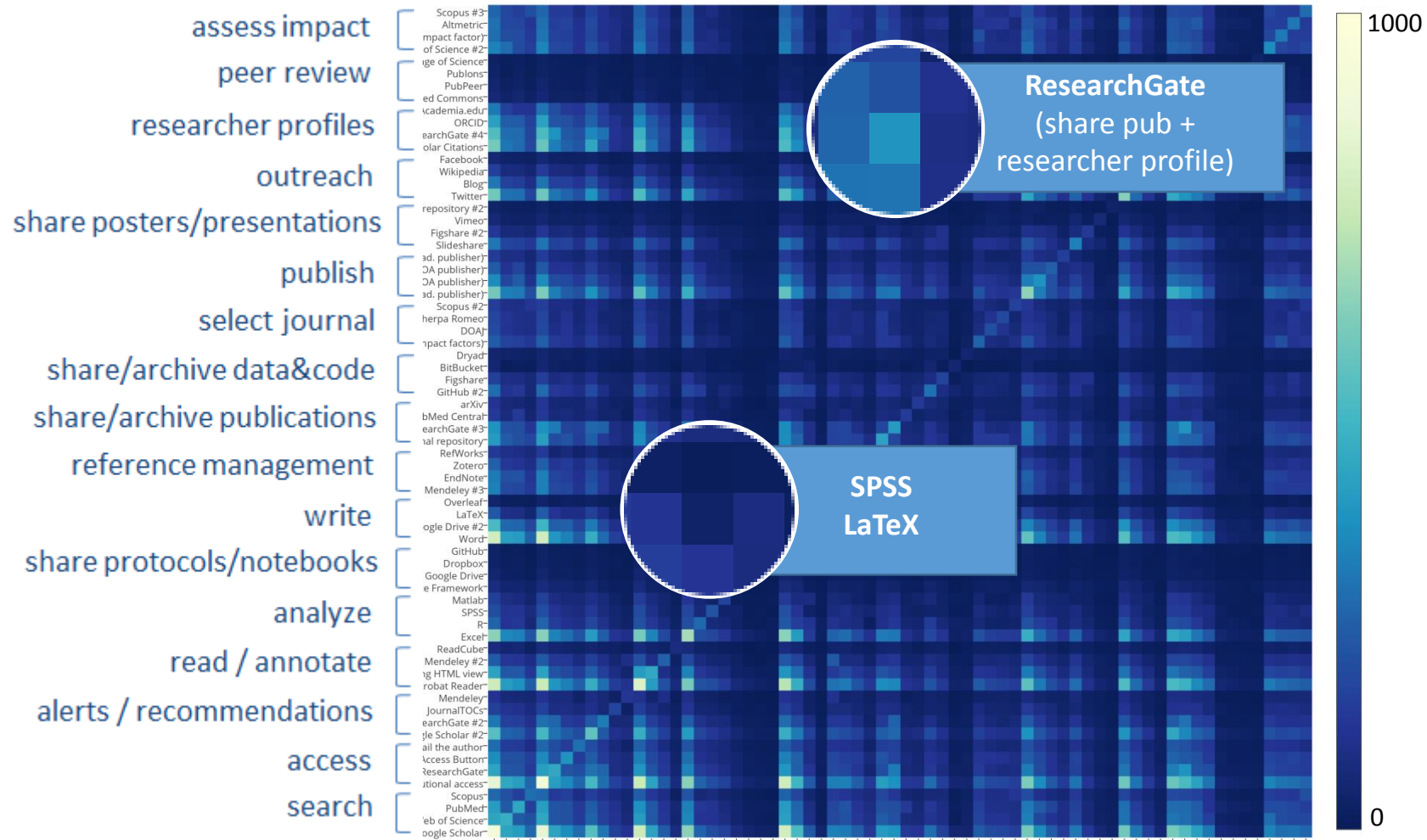
What tools do you use to get access to literature etc.?

# Breakdown examples

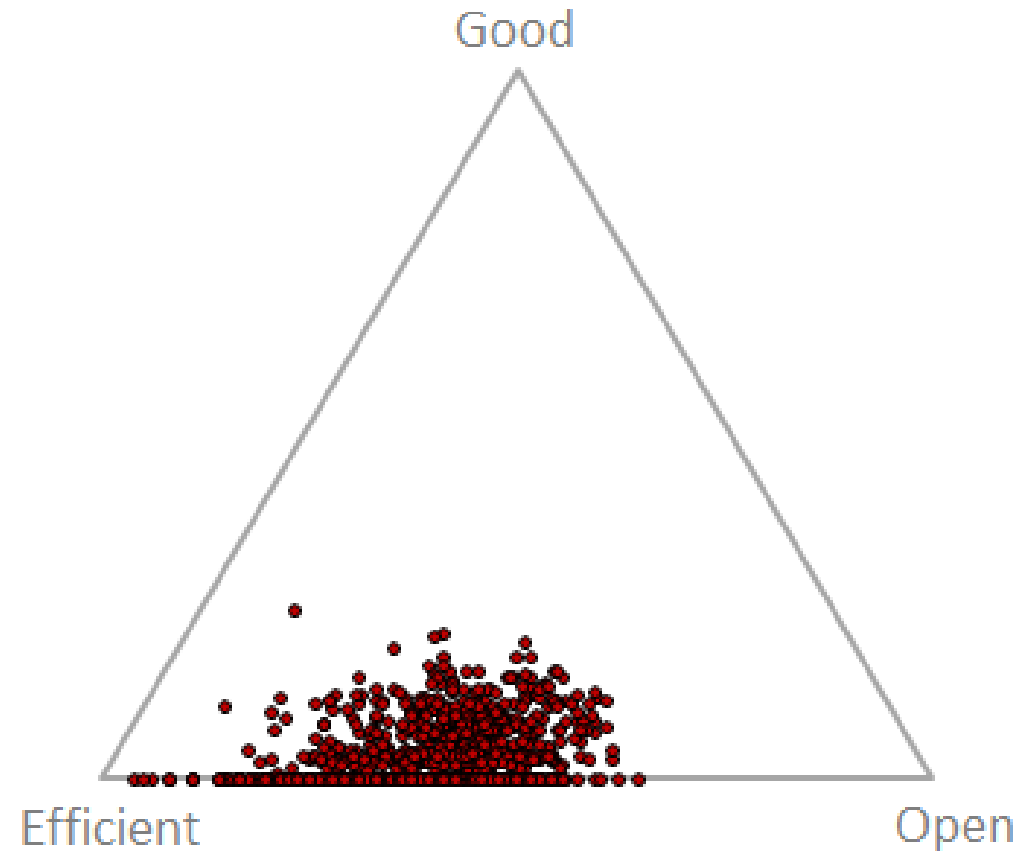
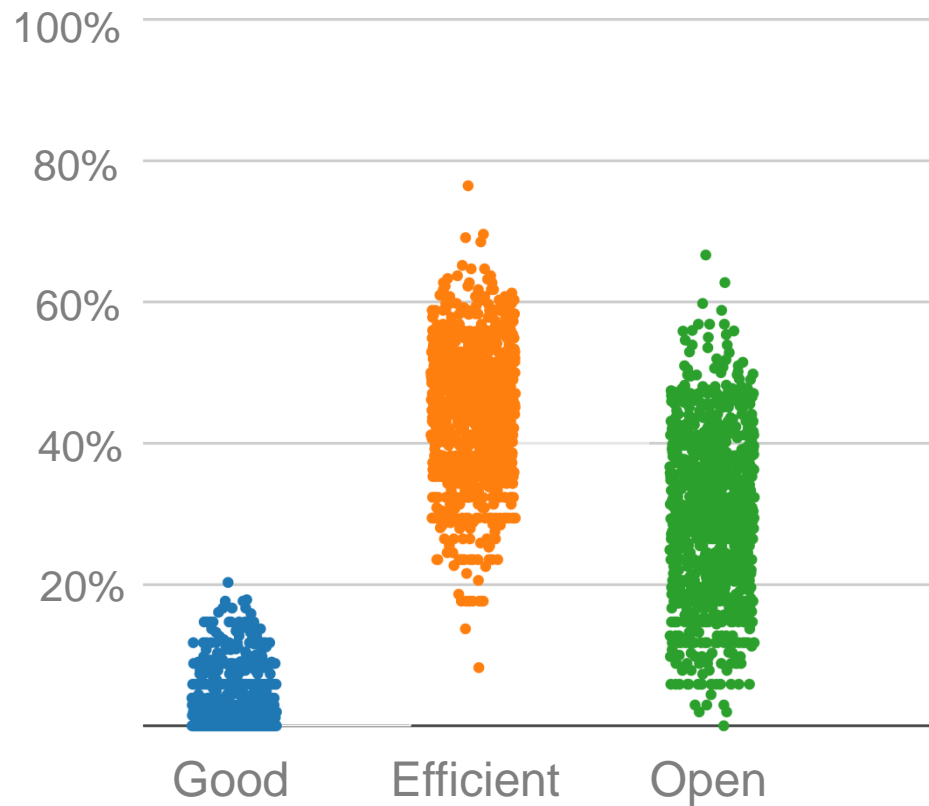


What tools do you use to archive/share data & code ?

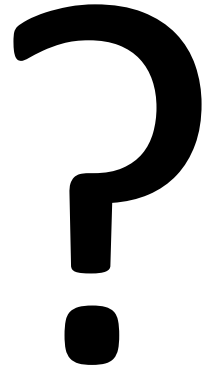
# Tool combinations in workflows



# Distribution across Good-Efficient-Open



Make these data work for you



Make these data work for you

Do Asian postdocs look more to impact factors to select a journal to publish in than their Latin American counterparts?

Make these data work for you

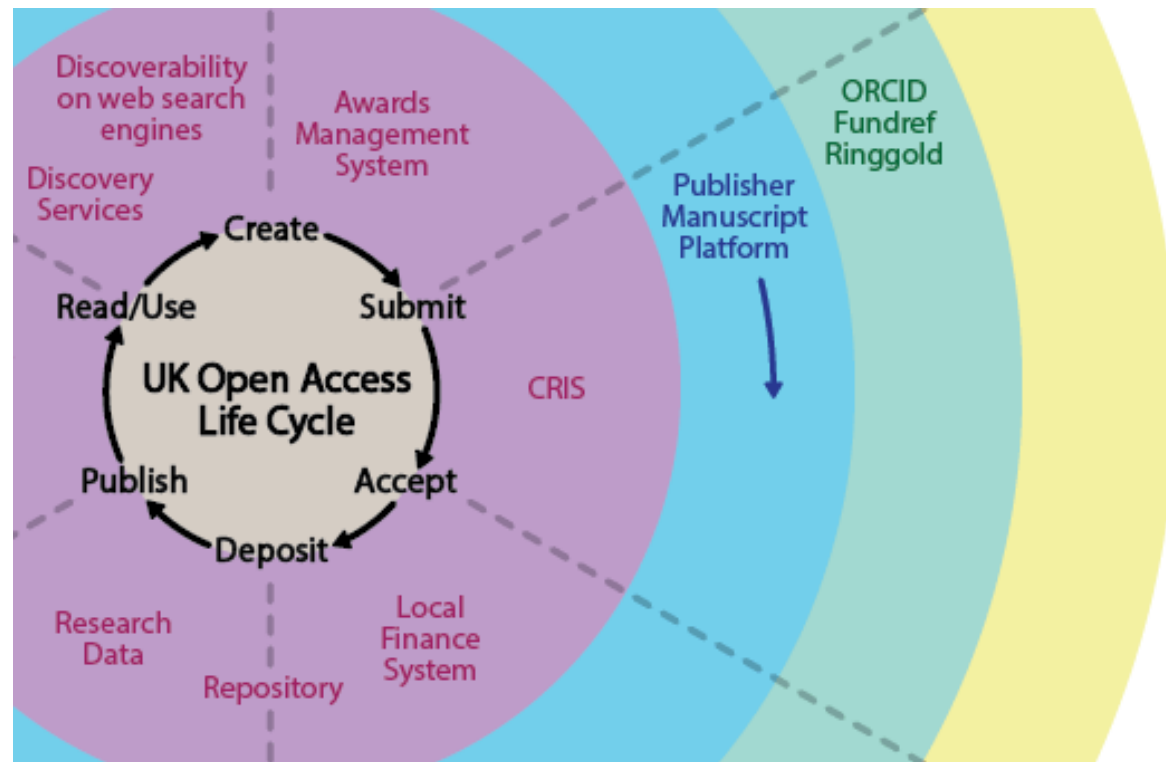
Is sharing 'preprints' gaining traction beyond the fields of astronomy, physics and math, and if so, what platforms are used?

Make these data work for you

Which tools are used in multiple research phases, and are they leading tools in any of these phases?



# Policy applications



## UK Open Access Life Cycle

University/Library

Publishers

Jisc/Above campus

Open Access Workflows for Academic Librarians (OAWAL)



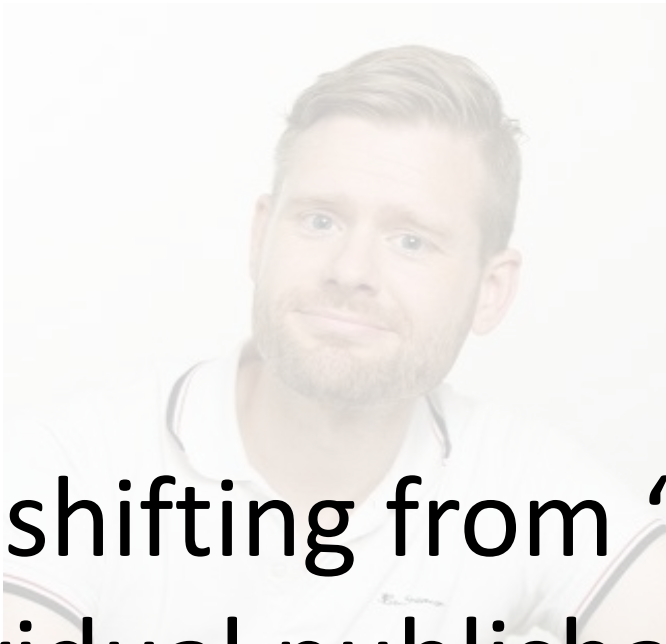
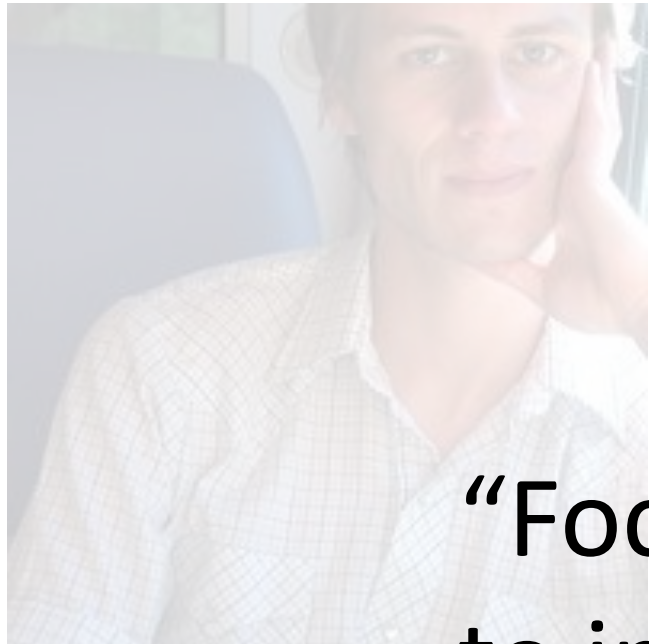
Stone, Graham, Stainthorp, Paul and Awre, Chris (2015)

# Policy applications

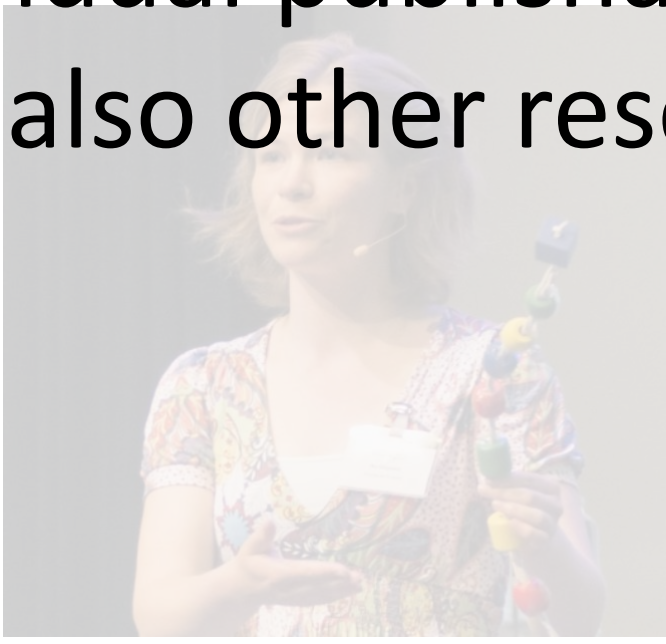
CHORUS



SHARE



“Focus shifting from ‘journals’  
to individual publishable units  
(articles, but also other research output)”



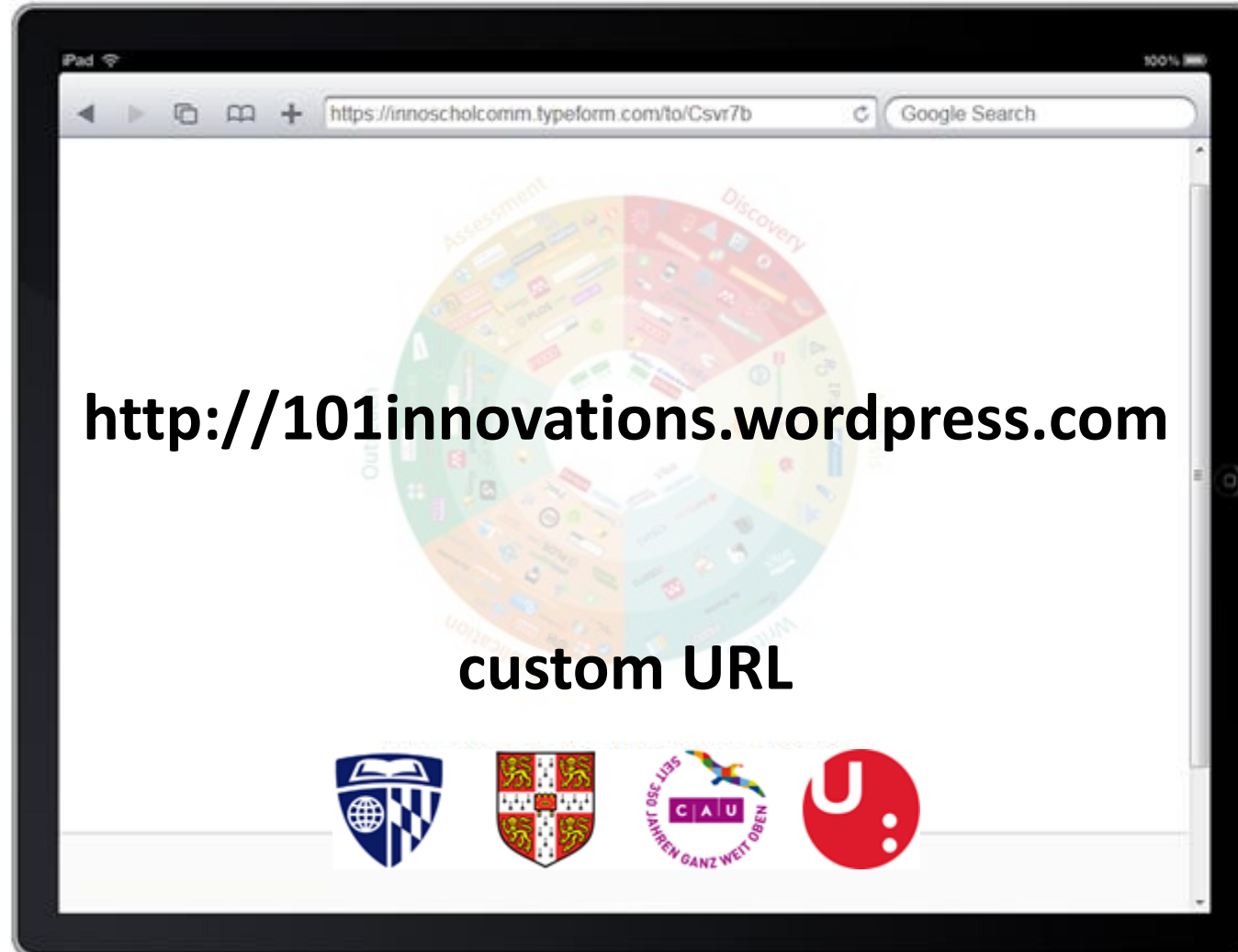


“Clear(er) shift towards open science /  
open access, leading to a diminishing  
importance of traditional journals”

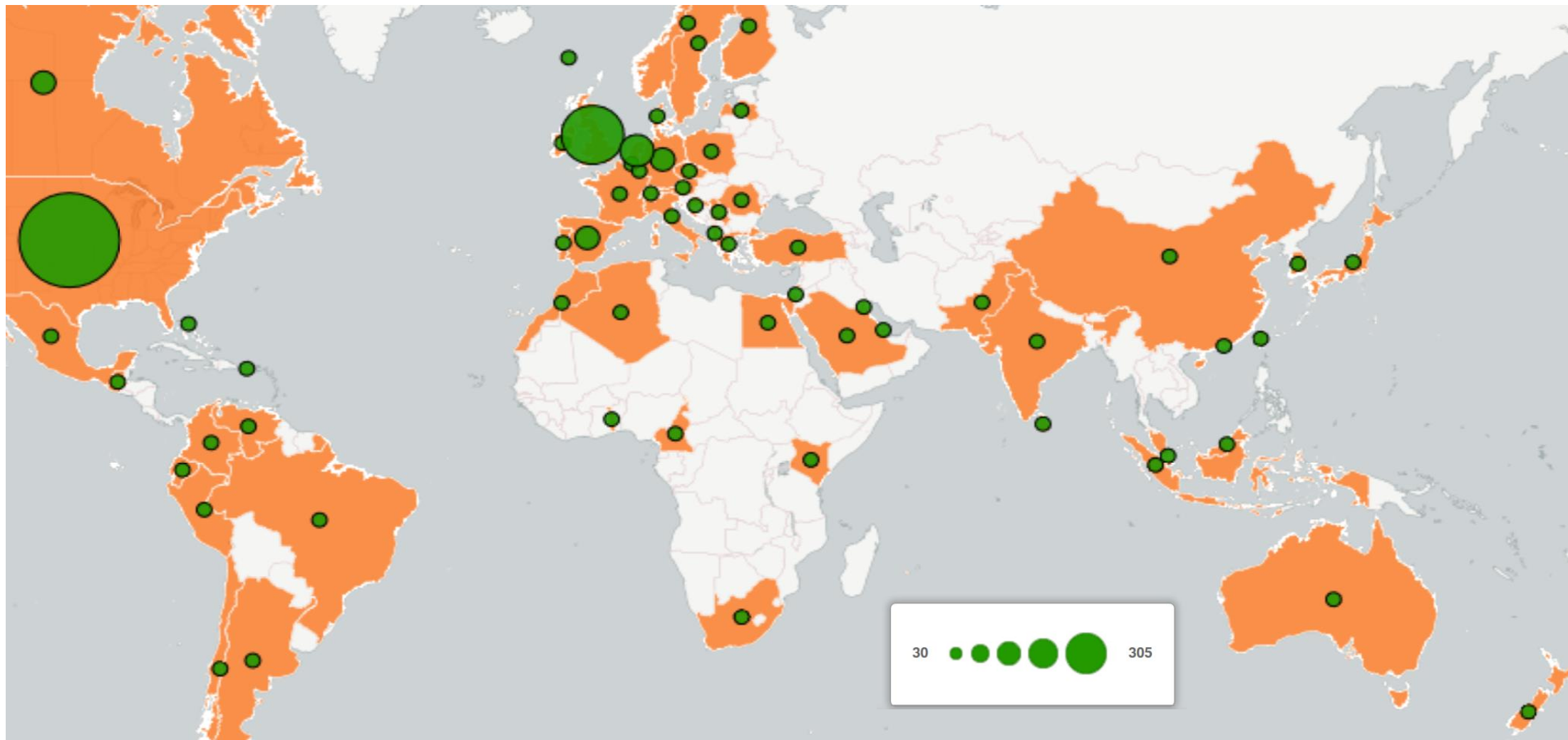
# Call to action



# Call to action



# Call to action





# INNOVATIONS IN SCHOLARLY COMMUNICATION

Changing Research Workflows

Thank you!