

ATLAS

making the UK's cohorts discoverable

04/02/2020 | Phil Quinlan



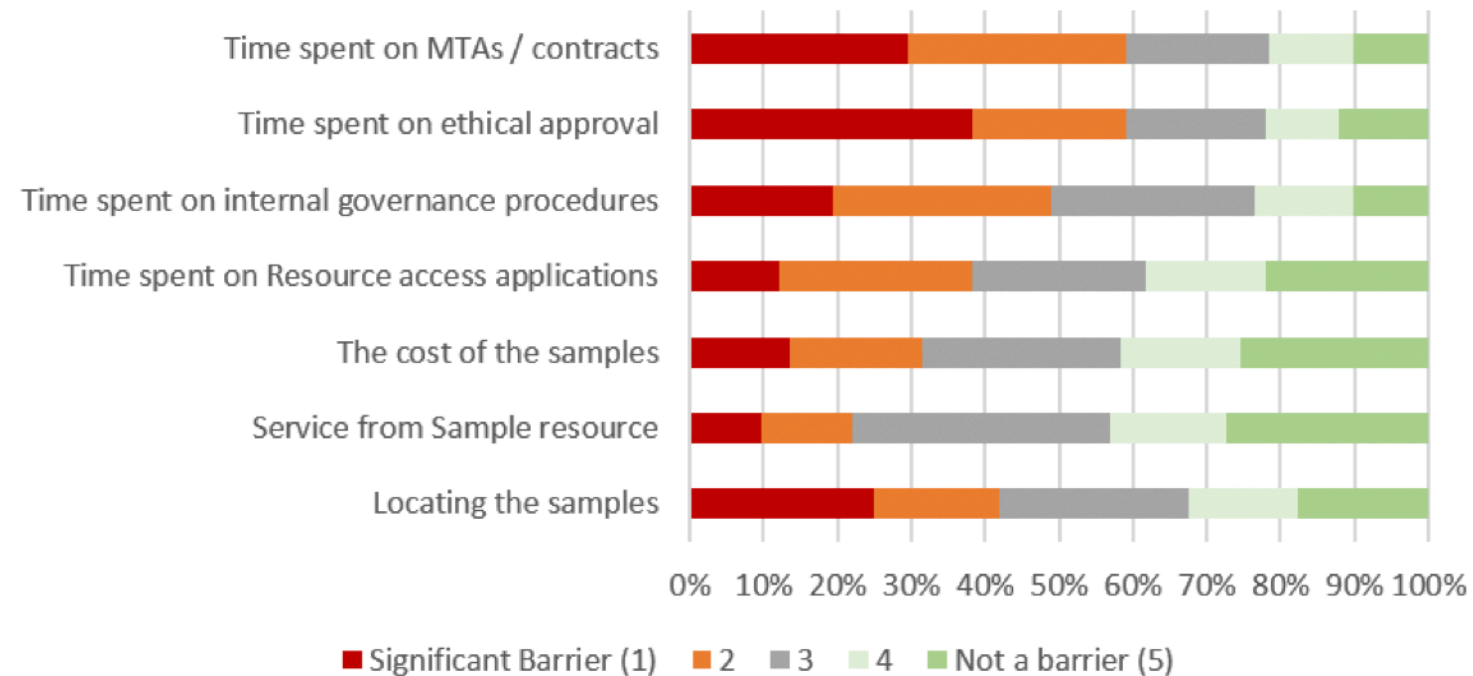
What is discovery?



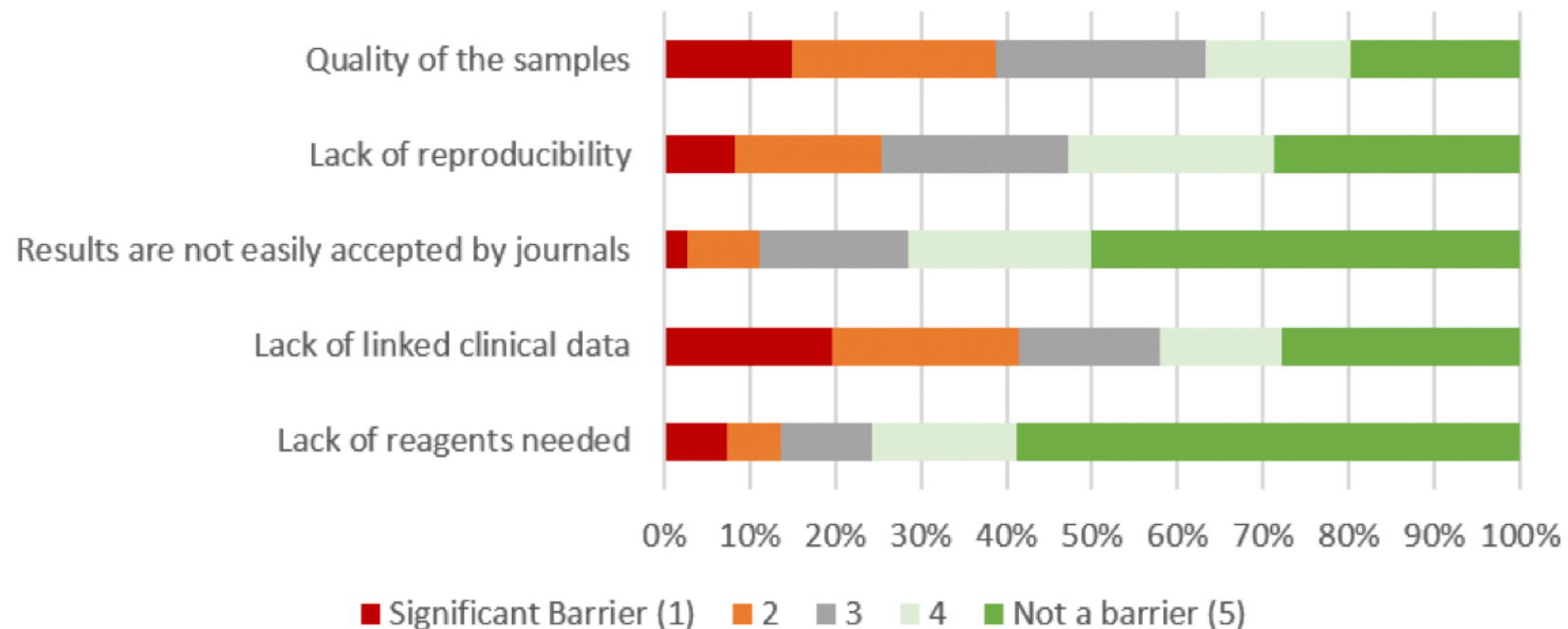
- To allow researchers to find **new** resources that they may not have considered before
- To allow researchers to **cross domains** so that communities can reach out and form collaborations
- It is the stage before the use and analysis of data

User Engagement

On a scale of 1-5 how do you rate the following as barriers to you accessing human samples for your research?



On a scale of 1-5 how do the following act as barriers to you using human samples for your research?

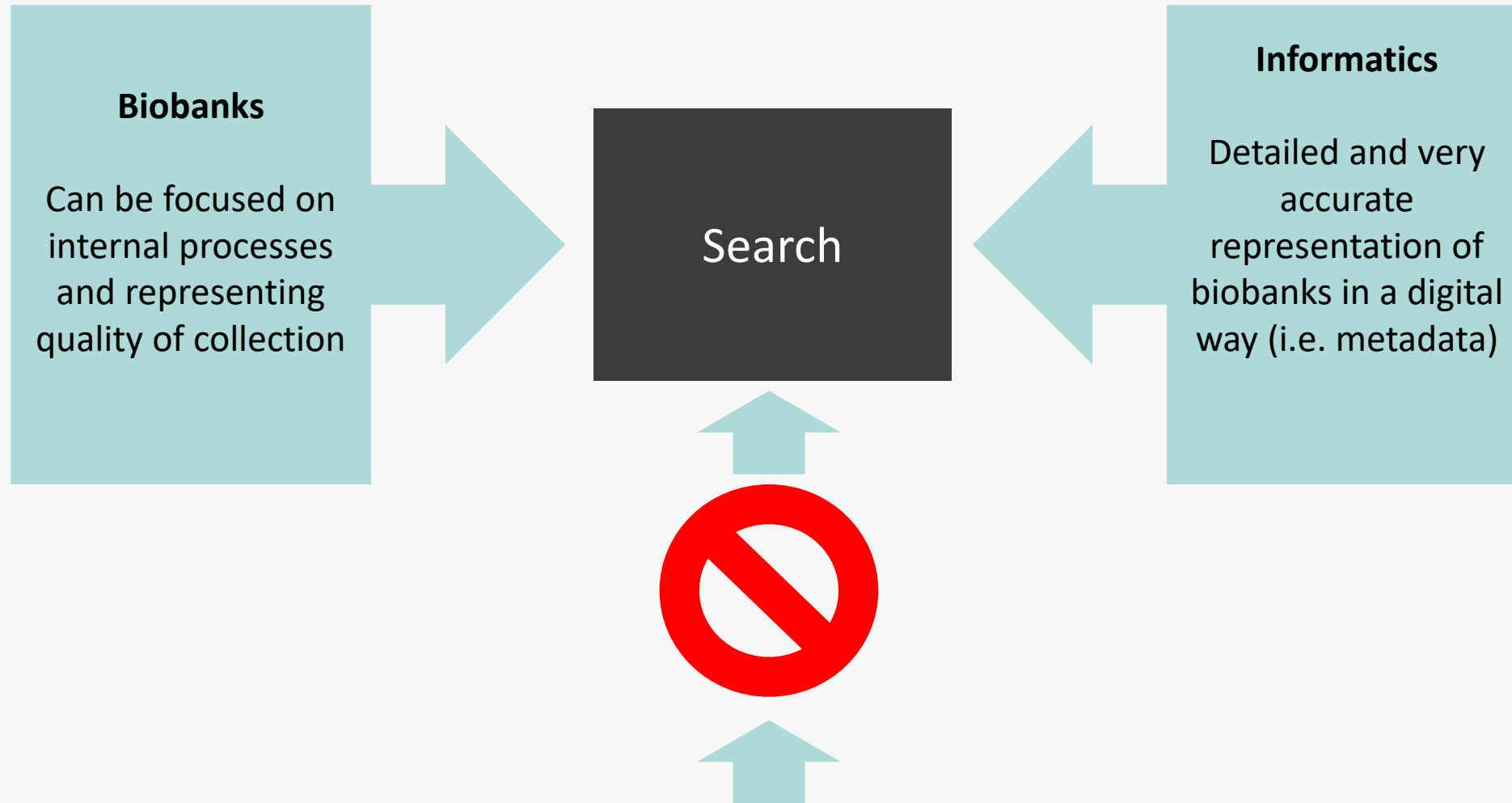


The current search environment

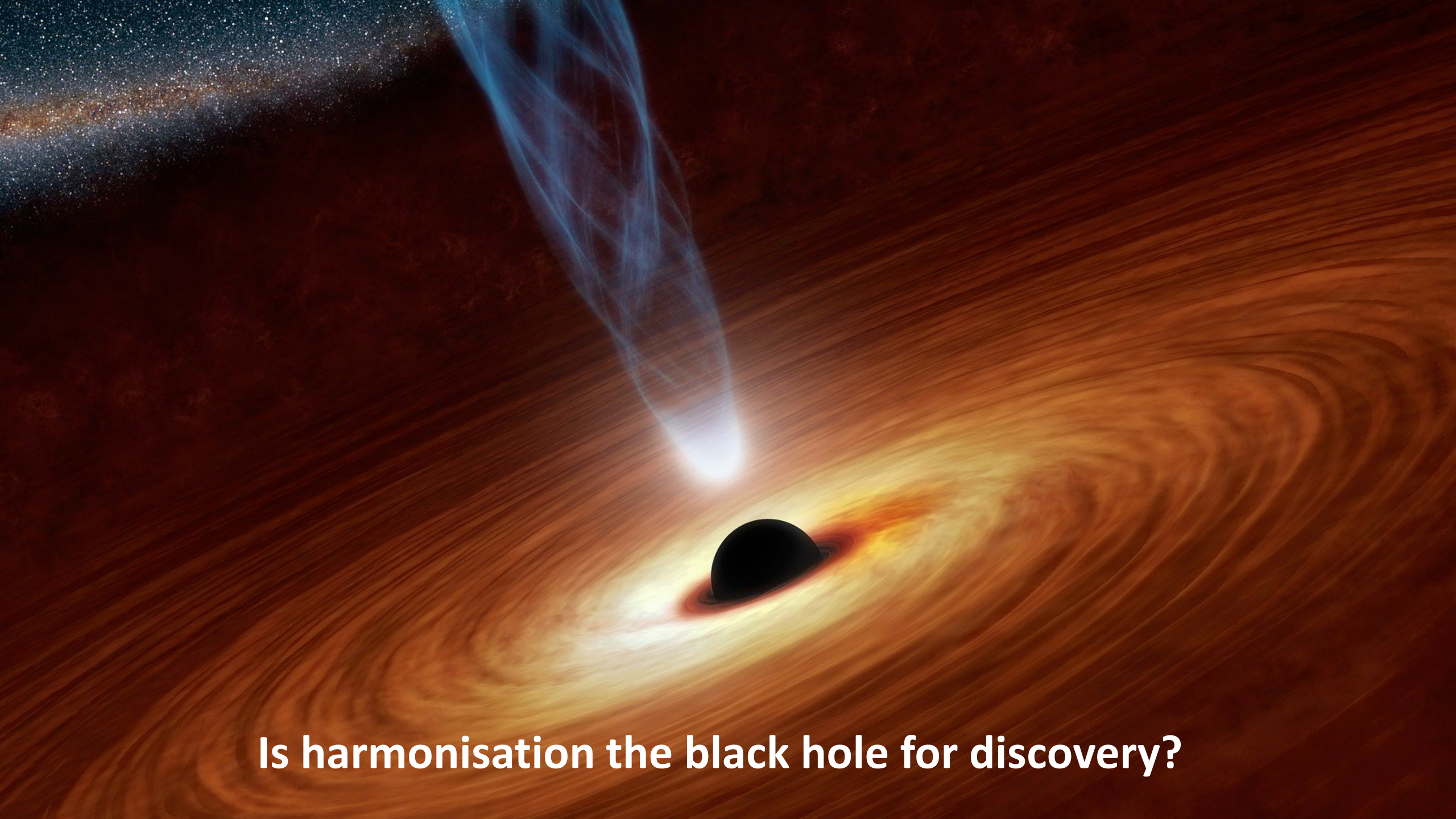
- Concerns over access procedures
- Concerns over governance
- Finding a new resource will just take time...
- There isn't even what I need, quality concerns and lack of data
- We have a very skeptical shopper!



The conflict between users

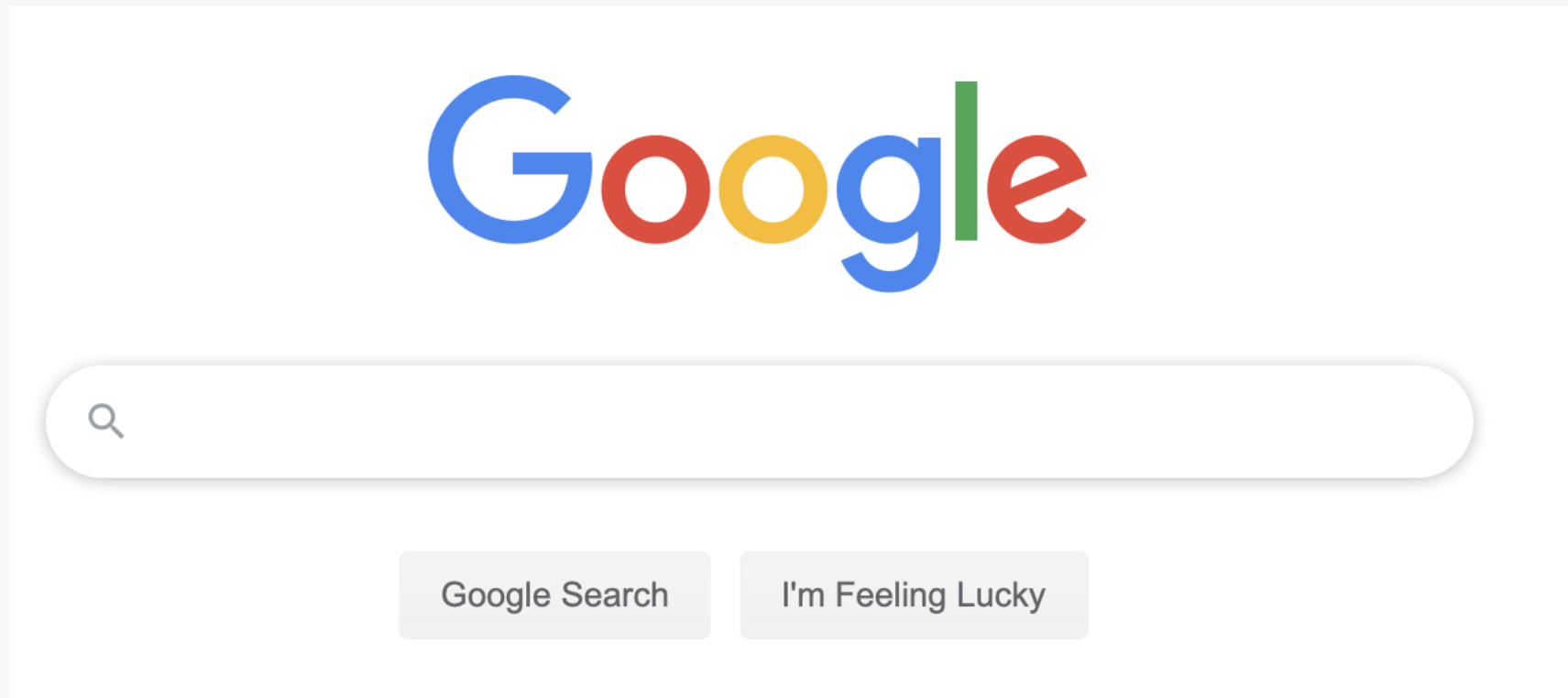


Researcher: I have an idea that over expression of heat shock proteins will cause a patient to be resistant to chemotherapy



Is harmonisation the black hole for discovery?

Do you need harmonisation for discovery?



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The Approach

- Use existing standards – OMOP
- Look for ‘obvious’ harmonisation
 - First instance this is simply word matches
- Allow the interface to reveal the options (‘Asthma’, ‘Ever had asthma’)
- Log the searches (and combinations) made
- Direct future harmonization based on user searches





ATLAS


- Harmonisation takes about 1 day of effort
- Researchers can perform 'live' harmonisation
- Immediate impact
- Allows alignment with longer term harmonisation and data standards development work


Q asthma


Condition Demographics Measurement Observation Procedure Questionnaire


Asthma 

A14: Ever had asthma 

A15a: Asthma medication is a reliever inhaler 

A15b: Asthma medication is a preventor inhaler 

A15c1: Frequency steroid tablets taken as asthma medication 

A15c: Asthma medication is steroid tablets 



Thank you!