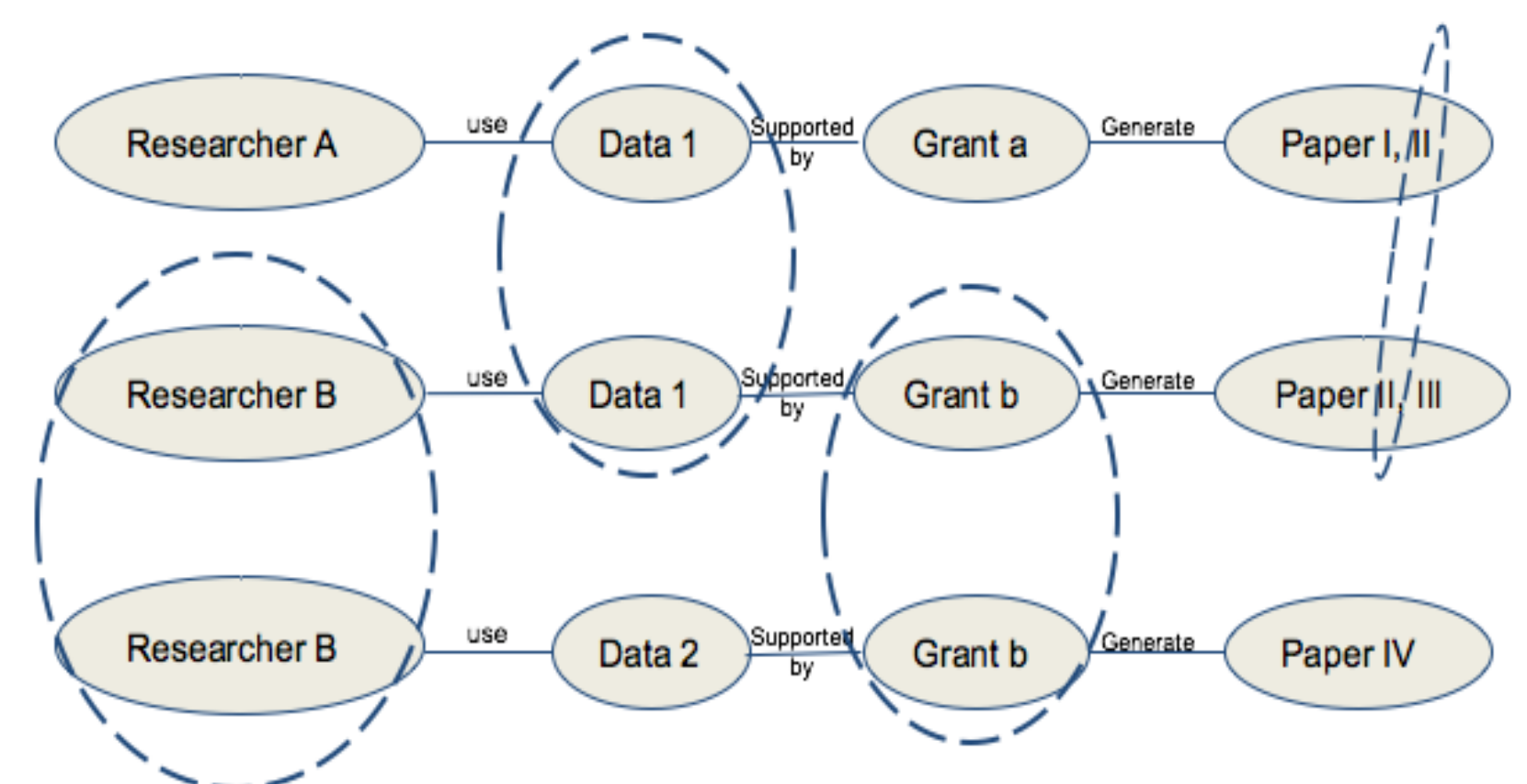


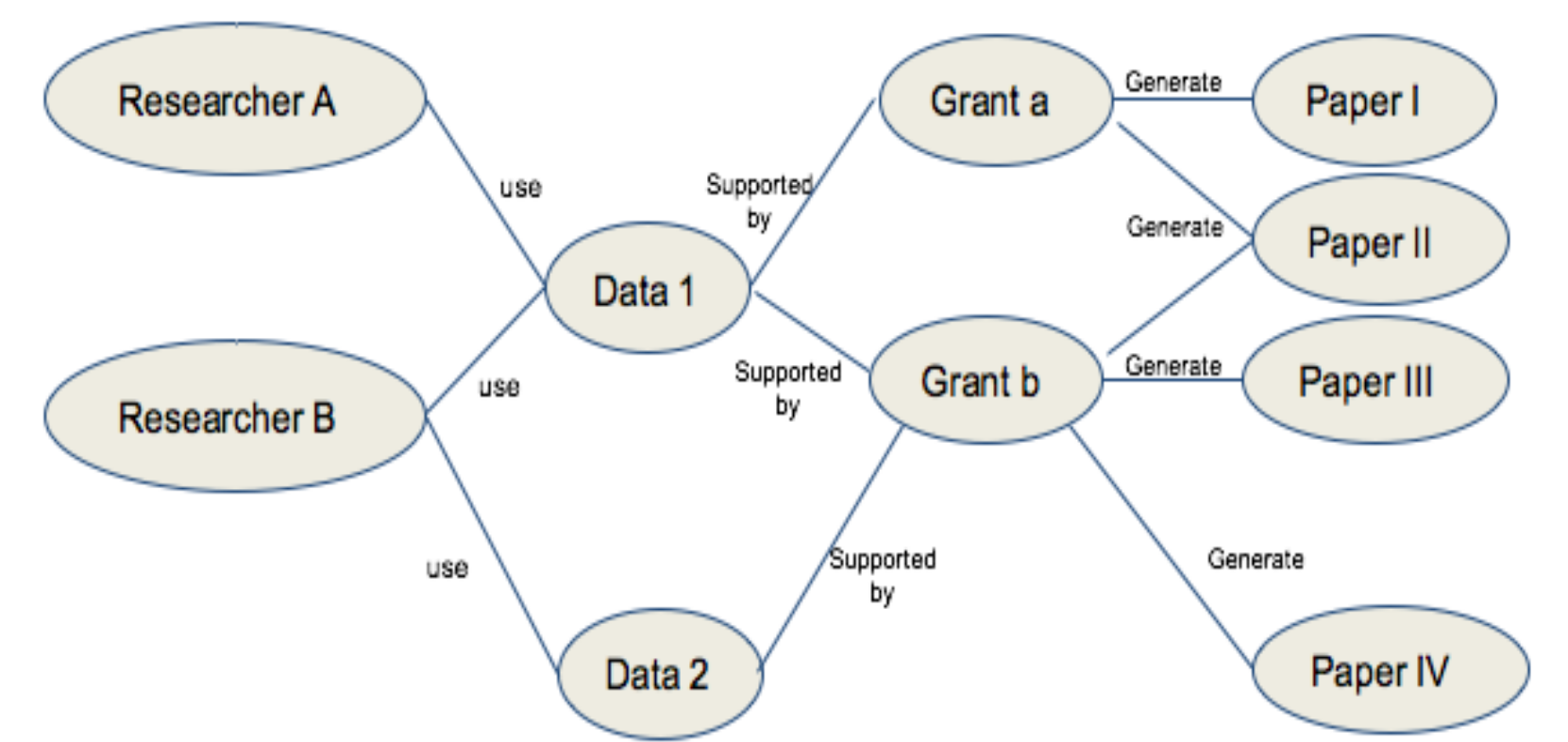
1. Driver: the ability to connect datasets to grants researchers and resultant publications

Making research data connected, discoverable and reusable are key enablers of the data-intensive revolution. Using the Research Data Switchboard (www.rd-switchboard.org) for the data catalogue for NCI Australia, we show how connectivity graphs can enable machine-actionable literature searches to discover links between researchers, publications and datasets. RD-Switchboard can also detect errors in the metadata catalogue, thus improving the quality of information in it.

1A. RD-Switchboard enabled a transition from individual metadata records that describe linear relationships...

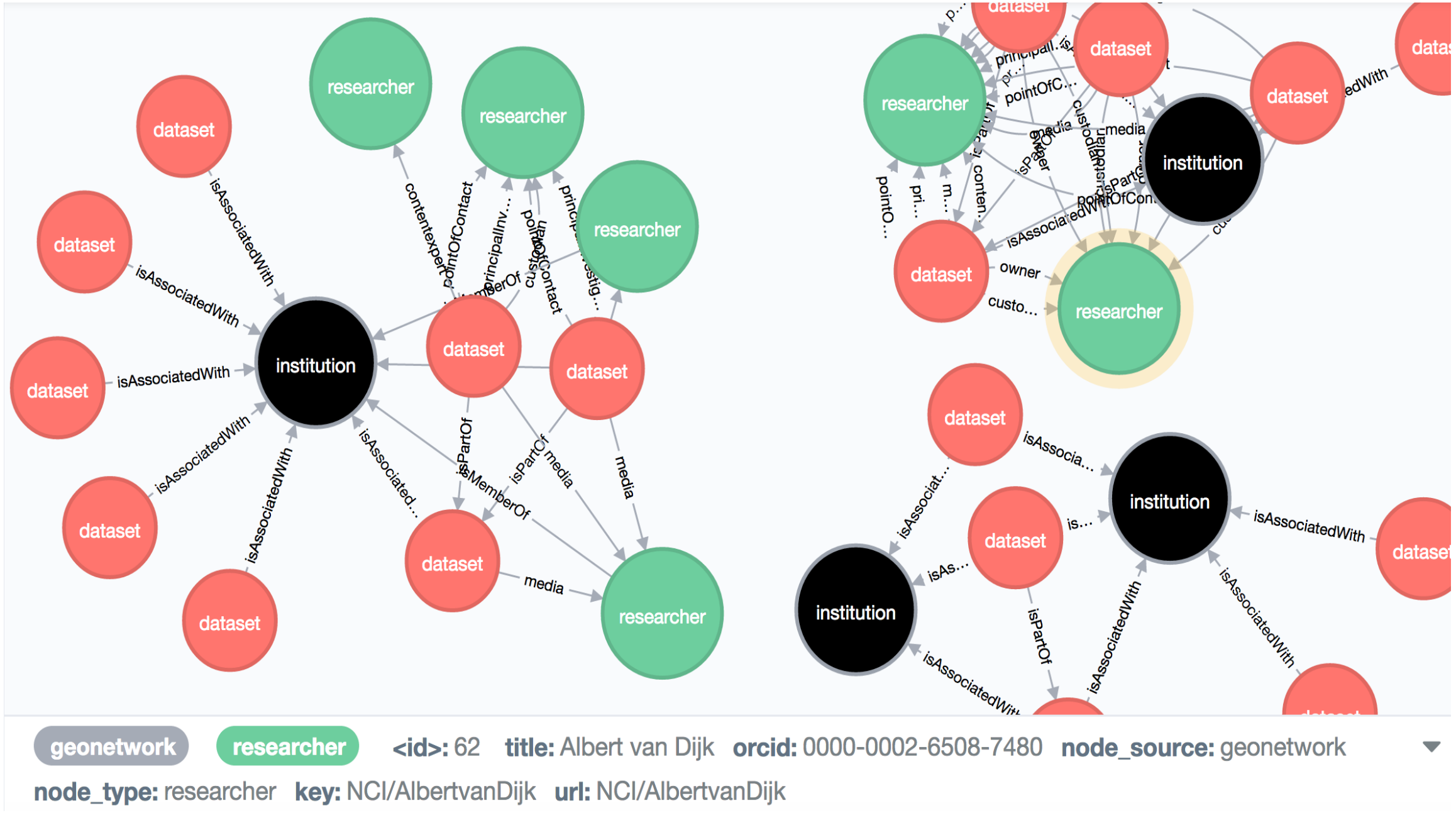


1B. ...to graph connections made through using identifiers such as DOI, ORCID, etc.



2. Introducing RD-Switchboard

2A. RD-Switchboard output of NCI's metadata connections

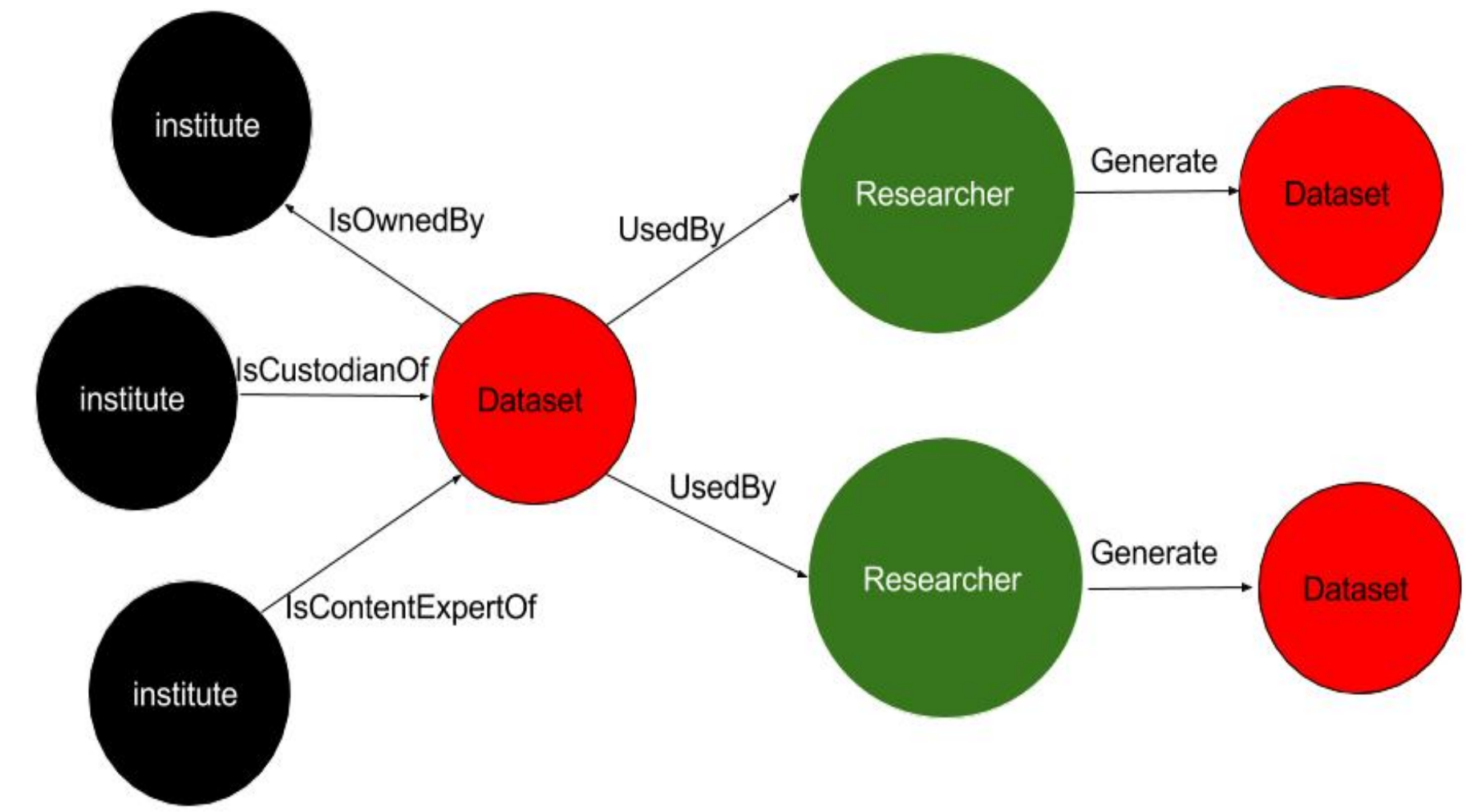


2B. Questions RD-Switchboard can answer

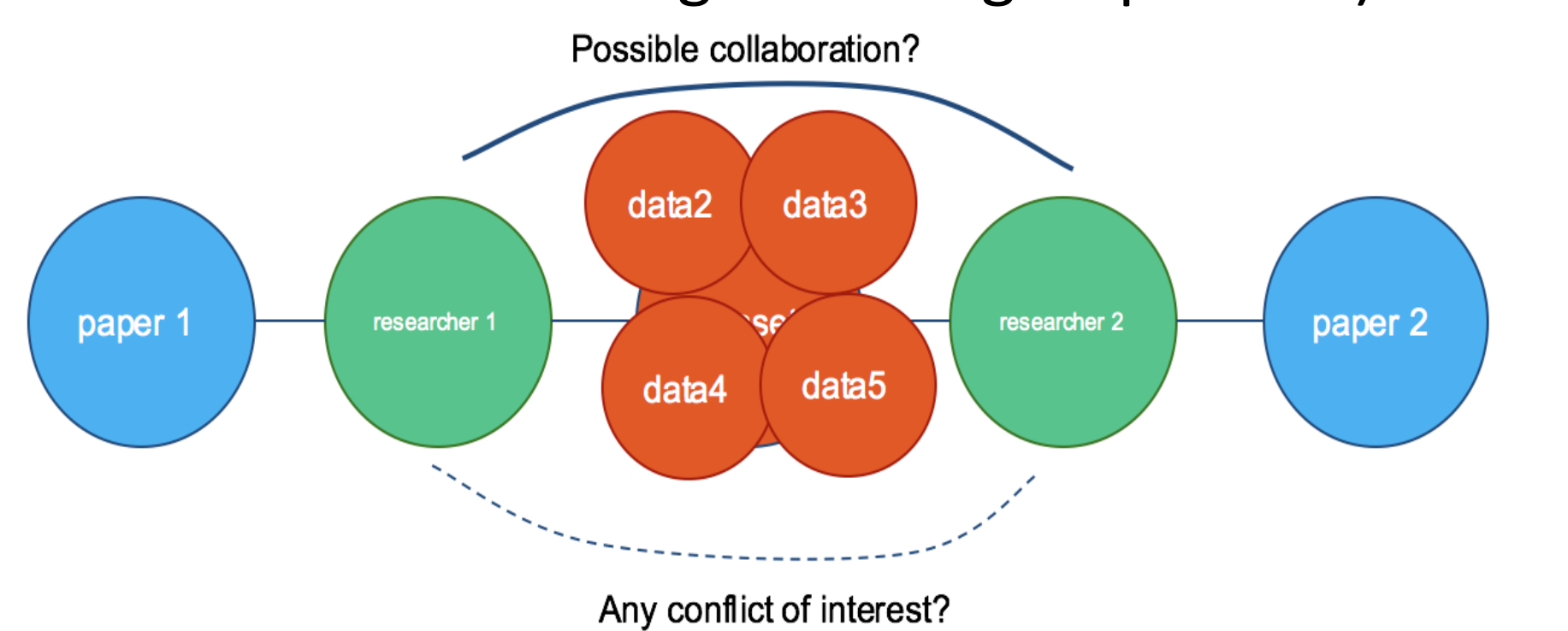
User Question?	RD-Switchboard answer
Which NCI datasets underpin high impact publications?	List of datasets published at NCI that are being referenced in research journal articles.
What is the awareness of NCI datasets within the research community?	Number and location of researchers/institutes that are connected to NCI datasets.
Who do I contact to find more about how to use this dataset?	Who has used this data set in their publications and for what.
What other research has been done using this dataset?	Finding connections between NCI datasets and international repositories such as CERN and ORCID.

3. Types of outputs from RD-Switchboard

3A. Centralised view on multiple relationships and multi-thread data provenance.



3B. Information exchange hub: who else is using this data set? (e.g., one group is downloading a climate dataset not knowing another group is also).



4. Future plans: <http://researchgraph.org>

