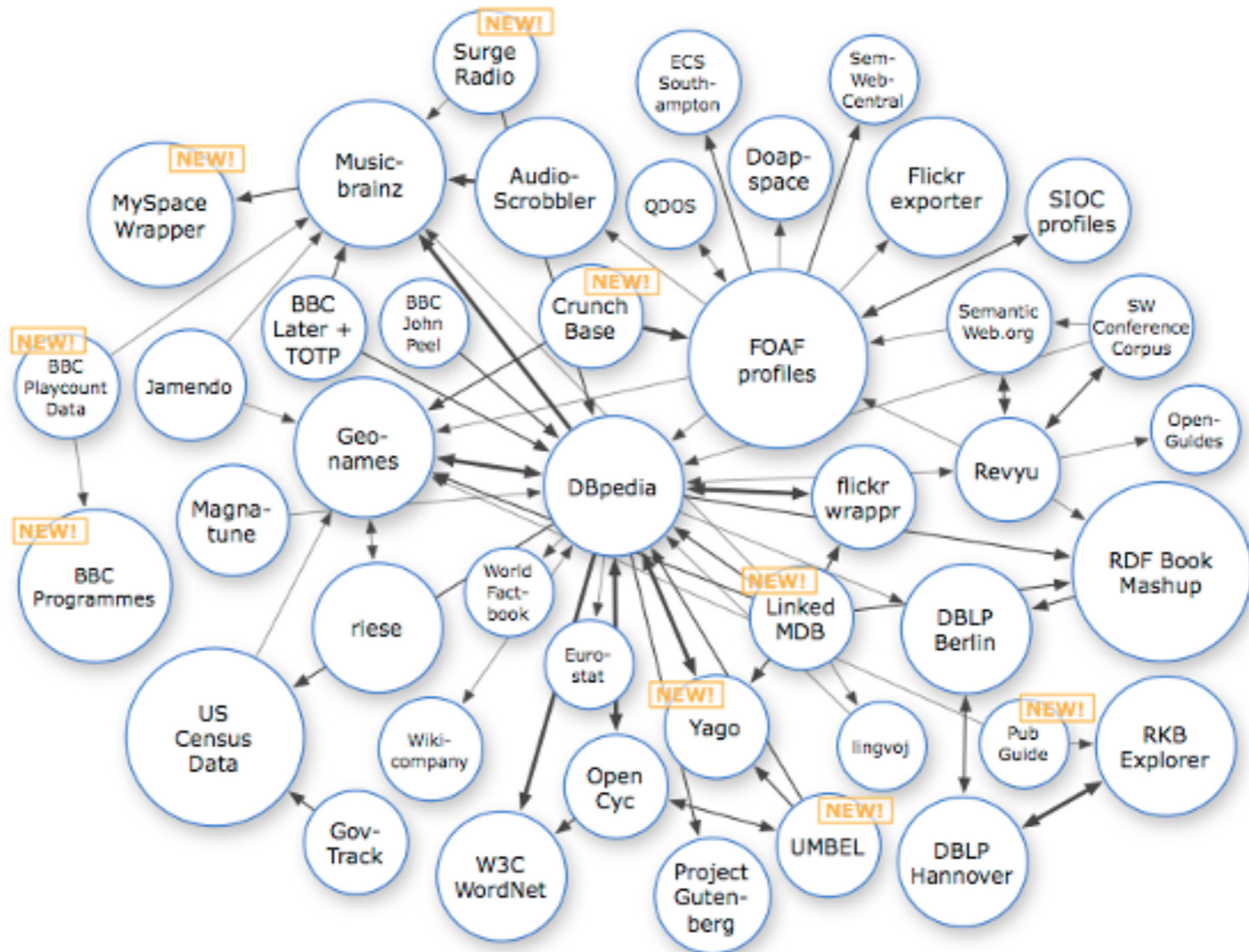# New ADS Developments

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&
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The Linked Data Cloud
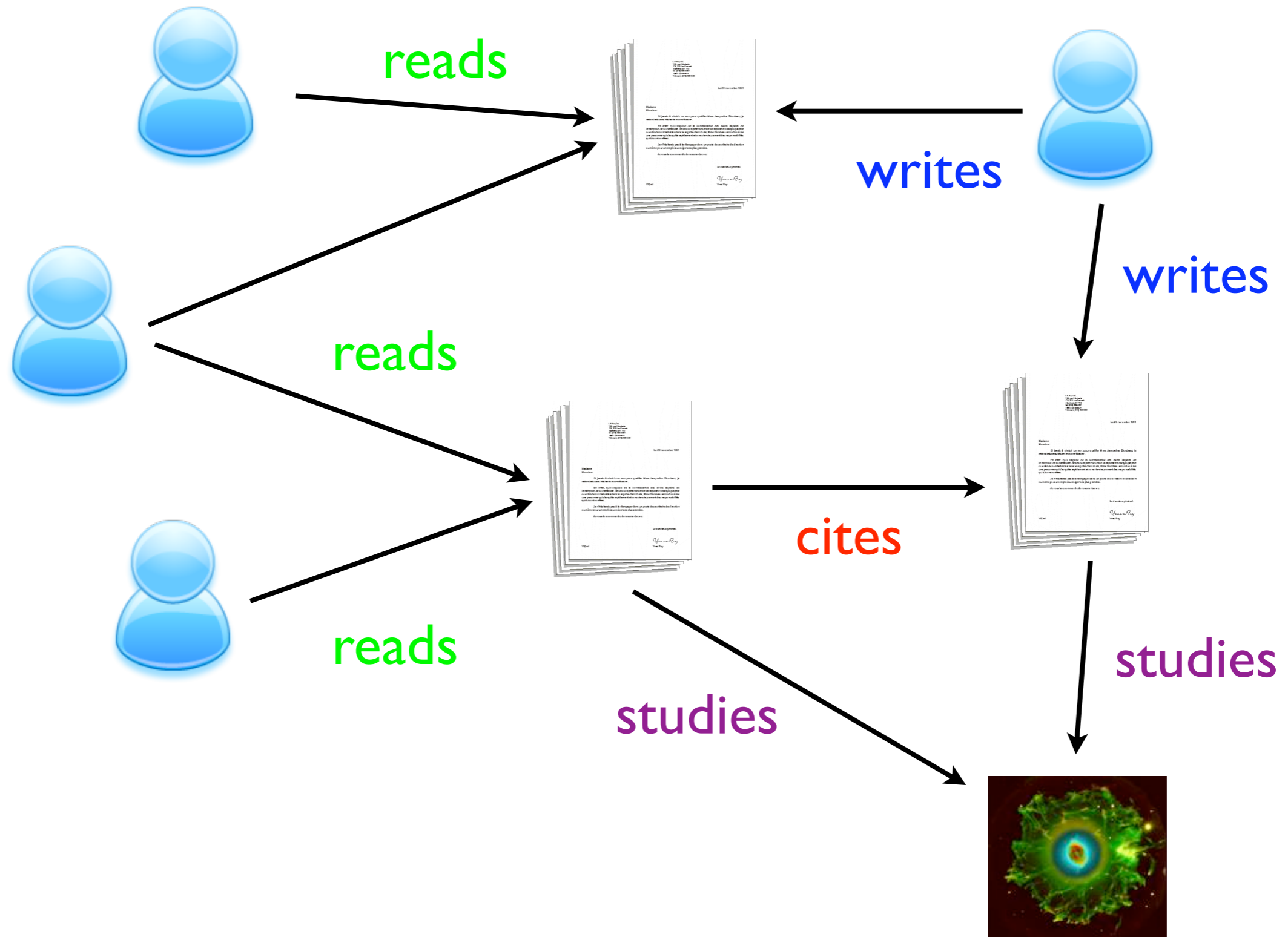

As of September 2008

The Astronomy Data Cloud

- should be "grown" from bottom-up

- we don't need more data, but more relationships between pieces of metadata

- science case: observing proposals

- venue: telescope, instrument, filter

- observational: position, time, exposure

- published data: papers, catalogs, surveys

The ADS Linked Data Cloud

What we are doing with this

- text mining of fulltext allows us to create the needed links

- clustering algorithms applied to citation and keyword co-occurrence networks create maps of astronomy research

- co-readership and co-citation networks can be used to implement new query models

- links to data allow the use of bibliographies to find relevant science products

Demo

- <u>Topic Search</u>

- <u>Data Search</u>

- <u>Keyword Topic Cluster</u>