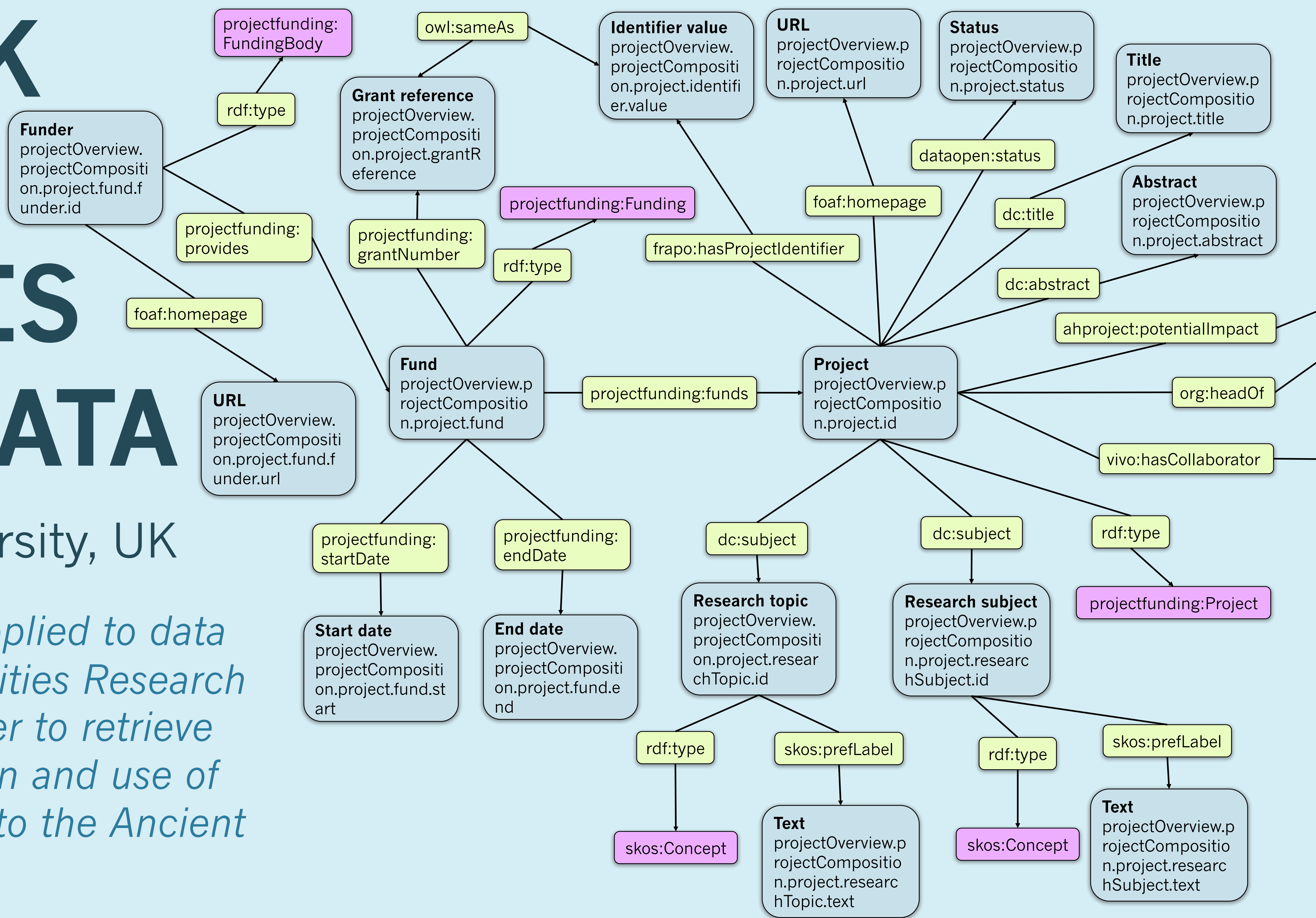


LINKING UK ARTS AND HUMANITIES PROJECT DATA

Sarah Middle, Open University, UK

Linked Data techniques were applied to data about the UK's Arts and Humanities Research Council (AHRC) projects, in order to retrieve information about the production and use of digital data by projects relating to the Ancient World.



EXTRACTION

Data relating to 5,349 research projects funded by the AHRC since 2006 was exported from the Research Councils UK's (RCUK) Gateway to Research (gtr.rcuk.ac.uk) and the field names were extracted.

CONVERSION

Using a Python script, these descriptions were converted to Resource Description Framework (RDF) triples, where a subject field and an object field are linked by a predicate, which describes the relationship between them.

DESCRIPTION

These fields, and the relationships between them, were then described using properties from existing ontologies, including the University of Oxford's Project Funding vocabulary, the Funding, Research Administration and Projects Ontology (FRAPO), and the W3C's Organization Ontology. A new ontology 'ahproject' was created to contain those terms with no existing equivalent. Part of the resulting field map is shown above.

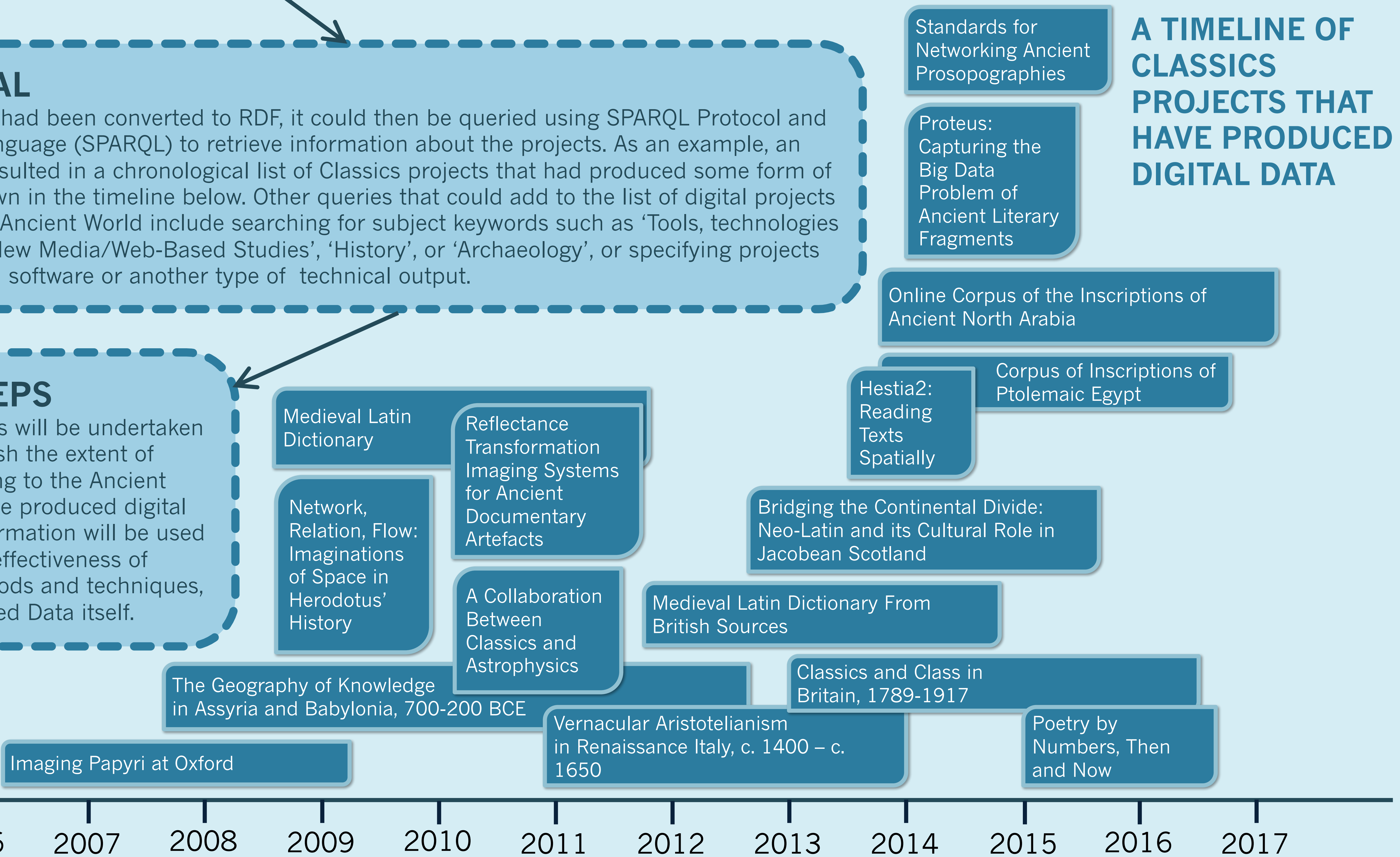
RETRIEVAL

Once the data had been converted to RDF, it could then be queried using SPARQL Protocol and RDF Query Language (SPARQL) to retrieve information about the projects. As an example, an initial query resulted in a chronological list of Classics projects that had produced some form of database, shown in the timeline below. Other queries that could add to the list of digital projects relating to the Ancient World include searching for subject keywords such as 'Tools, technologies & methods', 'New Media/Web-Based Studies', 'History', or 'Archaeology', or specifying projects that developed software or another type of technical output.

NEXT STEPS

Further queries will be undertaken to fully establish the extent of projects relating to the Ancient World that have produced digital data. This information will be used to assess the effectiveness of different methods and techniques, including Linked Data itself.

A TIMELINE OF CLASSICS PROJECTS THAT HAVE PRODUCED DIGITAL DATA



A timeline of AHRC projects with the main subject keyword 'Classics' that have identified themselves as having a 'research database and model output', funded since 2006