

State of the Problem: Towards a Virtual Observatory D for Culture

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Towards a Virtual Observatory for Culture

- The apparently marginal role of humanities
- Towards a paradigm shift in the humanities
- Future perspectives



Electronic journals play only a marginal role in the humanities

- Careers in the humanities are largely based on the traditional publication of books and monographs
- Data sets relevant to the humanities are heterogeneous, fragmented, and widely distributed
- Holders of data often have different interests from scholars, including commercial interests
- There is no-self-sustaining dynamics tending to open-access, only scout solutions, exploring but not settling a new territory and the activities of the big players, aiming at conquest rather than at sustainable infrastructures.





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- In both cases we are dealing with the acquisition of fragmented, distributed data sets for which longevity is critical.
- In both cases we are dealing with data that are artificially separated by the methods with which they have been acquired.





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• the role of standards

- the role of a sustainable, interactive infrastructure for data, tools, and research results
- the role of open-access of high-quality data as a condition for federating data
- build seed collections around objects and themes, not institutions or disciplines
- meta-data without data are empty, data without metadata are lost

*•• the need to avoid reinventing the wheel

- the agora principle: co-development of data, tools, and research in a growing universal working environment
- the 90-10 rule: build 10 percent of the services that are used by 90 percent, let the users build the rest from the components
- the possibility of making discoveries at the borderlines

Iegal issues are central because holders of source data are not necessarily part of the scientific community

- language technology largely plays the role of algorithms as a glue of the virtual observatory
- the need to create web-weavers for processing data according to content
- the need for handling enriched (scholarly) metadata and creating dynamic ontologies
- the potential of turning research results into data structures
- the potential of turning global link structures into meaningful relations



 Status quo in the humanities: learning from existing agora communities and building up overarching infrastructures

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Vorderasiatisches Museum, Berlin,

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Thomas Cooper Thesaurus Linguae Romanae et Britannicae

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Metior, metîri., pen. prod. mensus sum, metíri. Cic.

To meate or measure: to passe or go ouer: to esteeme: to indge. Interuallis æqualibus aliquid metiri. Cic. To draw out with equall spaces betweene. Agrum aliquem metiri. Cic. Frumentum metiri. Cic. Parcè & paulatim metiri frumentum. Cæsar. To serue out corne sparingly by litle and litle. Mundi magnitudinem metiri. Cic. Stipendium. Curt. In hasta. metiri se. Stat. Aunum metiri sol dicitur. Ouid. Æternitas nulla temporis circunscriptione metitur. Cicer. 'E'uerlastingnesse hath no boundes or limits of time. Oculo



 There is a constant exchange between specific projects such as CDLI and overarching infrastructures such as ECHO



- Characteristics of a center capable of maintaining a dynamic exchange with specific projects:
 - -local developmental resources
 - mixture of scholarly and technical competencies
 - -high mobility of personal
 - -availability of matching funds



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 The major obstacle to bring cultural heritage to the Internet is the lack of an infrastructure adequate to the scholarly needs of the humanities and of cultural heritage as a whole.