



About

The "European Open Science Cloud" (EOSC) tries to overcome the fragmentation of existing research infrastructures in Europe. Goal is the development of a collaborative approach to allow the use of research data over discipline specific borders. In the EOSC pilot projects, various European research infrastructures and organizations are taking over functions as early adopter (Science Demonstrator).



Building Blocks

Science Demonstrators

Science Demonstrators show the relevance and usefulness of EOSC Services and how they enable data reuse, and will drive EOSC development. Current science demonstrators focus on Environmental & Earth Sciences, High Energy Physics, Social Sciences, Life Sciences, Physics. More will be "on-boarded" through Open Calls.

Service Pilots

Federating data, infrastructure and services fostering multidisciplinary research across geographical borders and across time (through data preservation).

Interoperability Architecture

Defining and implementing specifications, interfaces, standards and processes to enable and underpin interoperability and sharing of EOSC data and infrastructures across disciplines and providers.

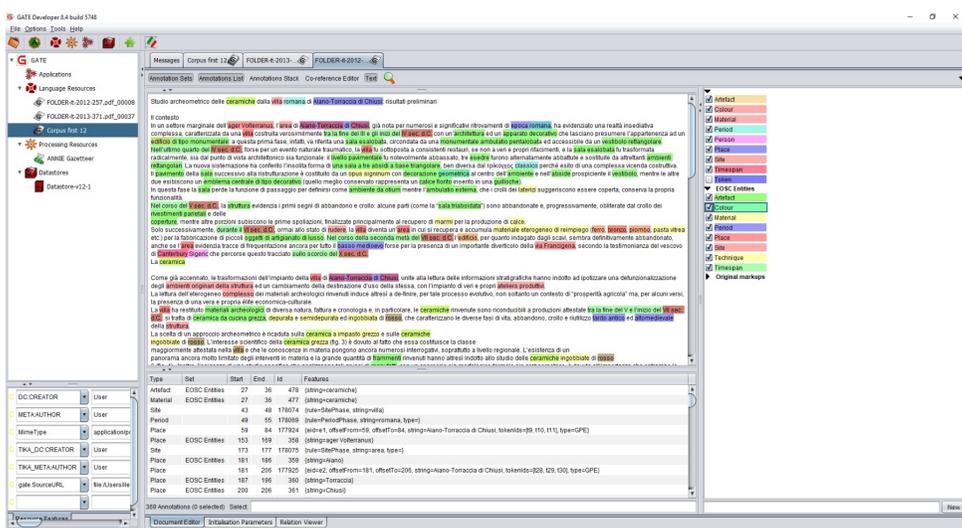
Governance Framework

Designing and piloting a stakeholder-driven governance framework with the involvement of research communities, research institutions, research infrastructures including e-infrastructures and research funding bodies, to shape and oversee future developments of the European Open Science Cloud.

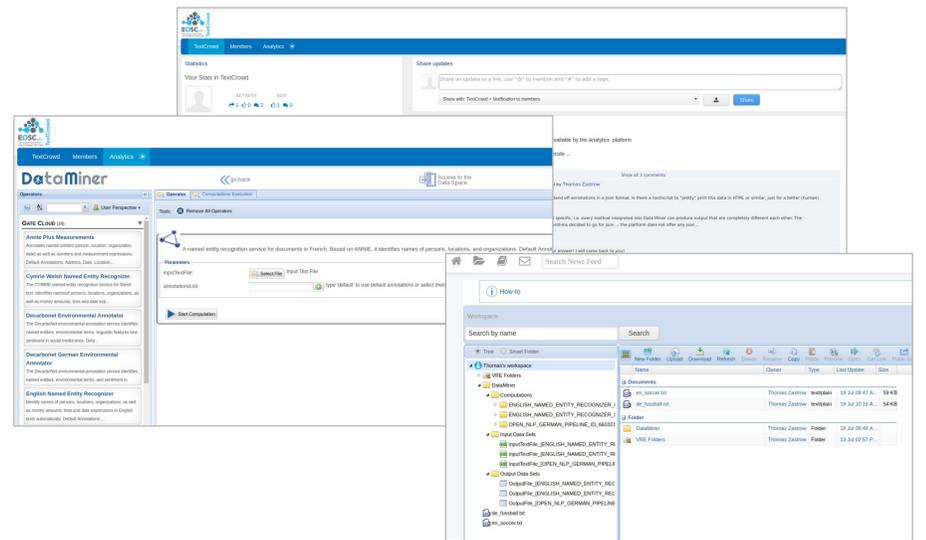
The TextCrowd Science Demonstrator

About

The Social Sciences and Humanities research communities face a fragmented research landscape that can be supported by EOSC. The EOSC would help overcome such fragmentation, by building on structuring and integrating initiatives such as the CLARIN, DARIAH and E-RIHS ERICs, and Digital Humanities Organizations (e.g. their Association ADHO) to offer advanced text-based services addressing common research needs (see recent survey by PARTHENOS). One example is [enabling the semantic enrichment of text sources](#) through cooperative, supervised crowdsourcing, based on shared semantics, and then to make this work available to others via EOSC. This would benefit many scientists in the long-tail even if delivering such a service presents real challenges around interoperability and multilingualism.



GATE toolchain with Named Entity Recognition for Italian archaeology, including the FP7 project OpenNER



Virtual research environment with user management, personal file space and workflow engine (DataMiner) with integrated GATE toolchain, operated and maintained by CNR-ISTI on the D4Science VRE

Context

Cultural heritage and humanities datasets are largely based on texts:

- Reports
- Archaeology: excavations, surveys
- Conservation: diagnosis, restoration – often mixed with numeric results
- Grey literature
- Literary/historical sources
- Research articles
- Monographs