# Dataverse: Switchboard plugin

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ISTI - CNR

## The Language Resource Switchboard (LRS)

- Language Resource Switchboard
- Development started within the CLARIN-PLUS project.
- The LRS can be seen as a Virtual Tool Registry.
- For a given resource uploaded on LRS:
  - Identifies all tools that can process the resource
  - Allows a user to select and invoke one tool
  - Transfers to the tool all relevant information about the resource
- Tools are sorted in terms of the tasks they perform

#### The Harvard Dataverse

- The Harvard Dataverse is an open source web application to share, preserve, cite, explore research data.
- Dataverse is developed and maintained by the Institute for Quantitative Social Science (IQSS) at Harvard University since 2006
- A large open Dataverse instance is hosted Harvard University Library, 69 known installations of Dataverse exist throughout the world (as of today, <a href="https://dataverse.org/installations">https://dataverse.org/installations</a>)

#### Users can

- deposit and describe data files using DDI and Dublin Core-compliant standards, as well as certain discipline-specific metadata standards,
- generate PIDs and data citations,
- assign access permissions and licence terms
- link the dataset to related publications and datasets
- 0 ..

## Switchboard plugin: roadmap

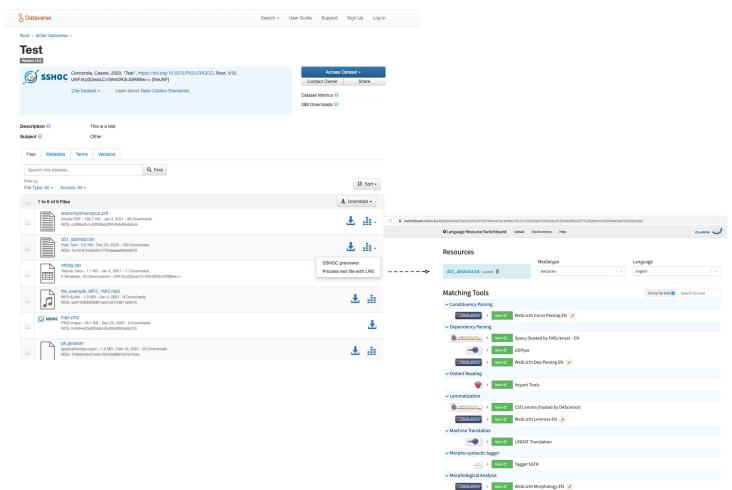
- Switchboard integration. Integrating the Switchboard in Dataverse such that a user that browses the Dataverse catalogue UI can select a specific data object and invoke the Switchboard. Done
- 2. **Text processing and dictionary lookup**. In Dataverse it is possible to pre-view text and pdf by invoking specific viewers. We can enable the text processing and dictionary lookup functionality offered by services integrated in the Switchboard. **Done**
- 3. **Data resubmission by Switchboard invoked services**. For some services it may make sense to enable resubmission of a service processing result into Dataverse. This has to be enabled in the specific service itself.

**In Progress** 

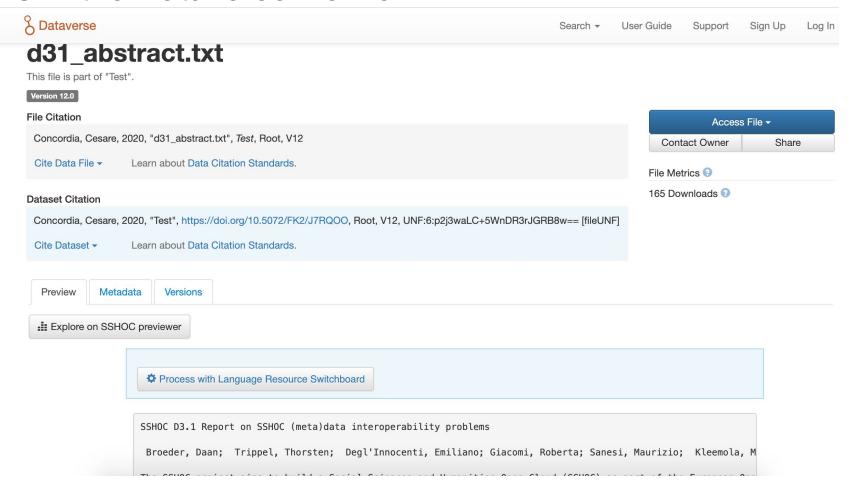
## Dataverse External Tool Integration

- The Dataverse system enables developers to integrate external tools that can provide additional features that are not part of Dataverse itself, such as data file previews, visualization, and curation.
  - https://guides.dataverse.org/en/latest/admin/external-tools.html
- An integration module has been developed to enable the Resource Switchboard to be integrated in Dataverse as an external tool.
  - previewers are based on:
     <a href="https://github.com/GlobalDataverseCommunityConsortium/dataverse-previewers">https://github.com/GlobalDataverseCommunityConsortium/dataverse-previewers</a>
- Three possible integrations

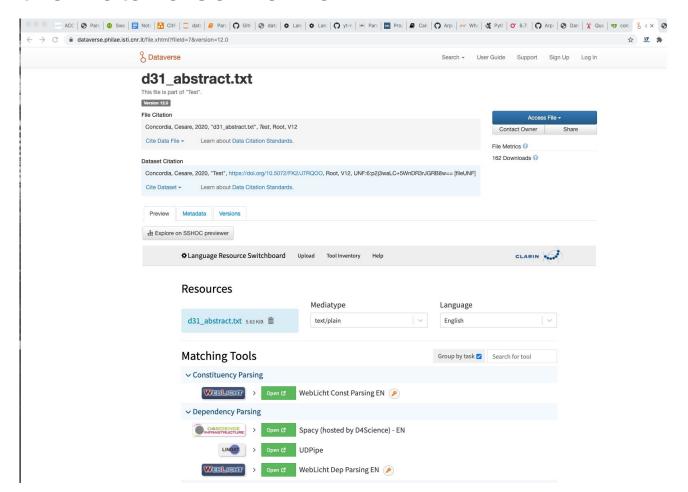
#### File sent to LRS from the Dataverse Dataset View



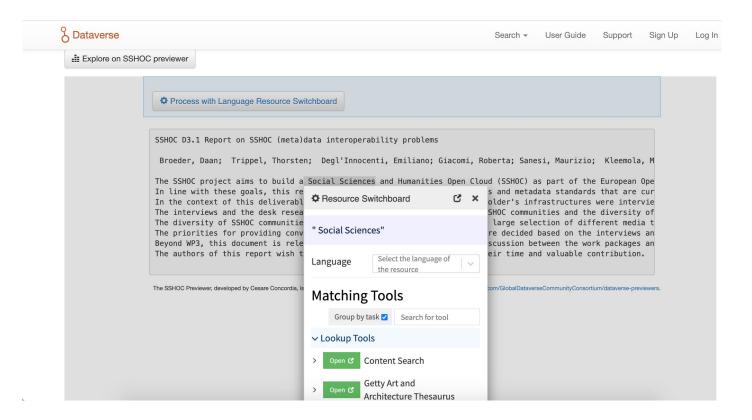
#### LRS in the Dataverse file view 1



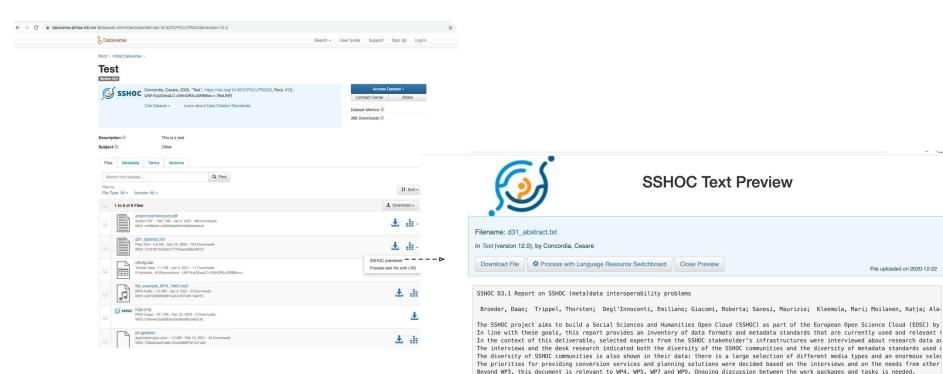
#### LRS in the Dataverse file view 2



## LRS in the Dataverse file view: popup menu



## LRS & Dataverse file previewer



The SSHOC Previewer, developed by Cesare Concordia, is based on the one developed by QDR and maintained at https://github.com/GlobalDataverseCommunityConsortium/dataverse-previewers

The authors of this report wish to thank the interviewed informants for their time and valuable contribution.

File uploaded on 2020-12-22

### Documentation, source code and test installation

- Technical documentation and source code: <a href="https://gitea-s2i2s.isti.cnr.it/concordia/dataverse-lrs">https://gitea-s2i2s.isti.cnr.it/concordia/dataverse-lrs</a>
- User documentation: <u>https://docs.google.com/document/d/1N-TXWzinCUjsFF7kI5ev5QQheR3FEmhhZwNI2</u> 2wHYr4/edit#
- Test installation and demo: <a href="https://dataverse.philae.isti.cnr.it/">https://dataverse.philae.isti.cnr.it/</a>

## Questions?

• Thank you.