Research lifecycle in the EOSC cloud using CLARIN technology / Ikerketa prozesua EOSC lainoan CLARIN teknologiak erabilita.

Proposer(s) / Proposatzailea(k):

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Description / Deskribapena

The student can choose a hot topic in Digital Humanities and follow the following use-case with her/his research topic:

Searching for tools & processing the dataset

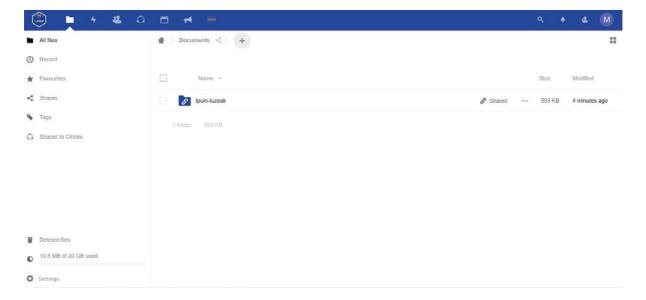
1. EOSC portal search

- At the <u>EOSC Portal market place</u>, the researcher searches for <u>"language analysis"</u>. This leads to 1 result: the Language Resource Switchboard.
- In the description of the <u>Language Resource Switchboard</u>, several relevant analysis methods are listed (e.g. Topic Modelling and Stylometry). It also states it can be invoked from <u>B2DROP</u>.
- Researcher goes to the <u>B2DROP</u> landing page in the EOSC-portal market place and goes to the <u>actual application</u>.

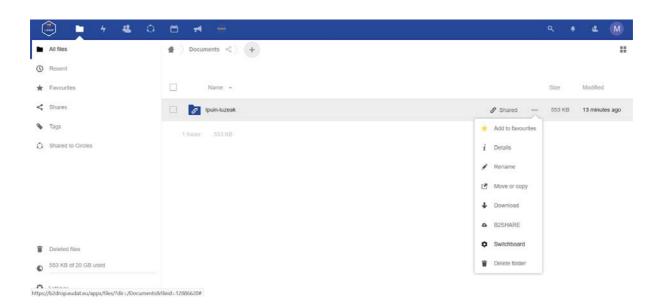


2. B2DROP file upload

- The researcher uses single-sign-on (B2ACCESS) to login to his B2DROP workspace.
- There she uploads the dataset and shares the file with a **Share Link**.
 - O Basque tales (from 3 to 6 years): https://b2drop.eudat.eu/s/naW8Hcaadmaf8ds

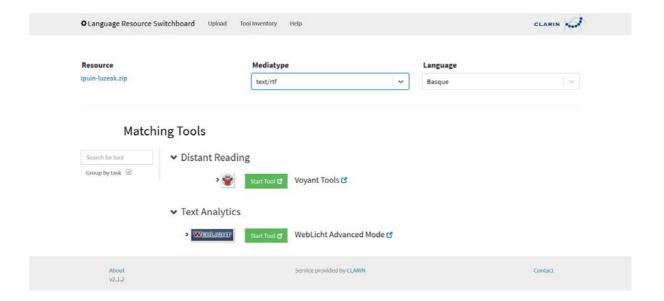


• Now he clicks on the ... icon next to the file and selects Switchboard.

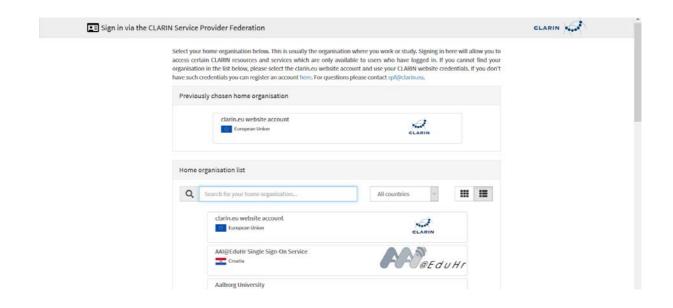


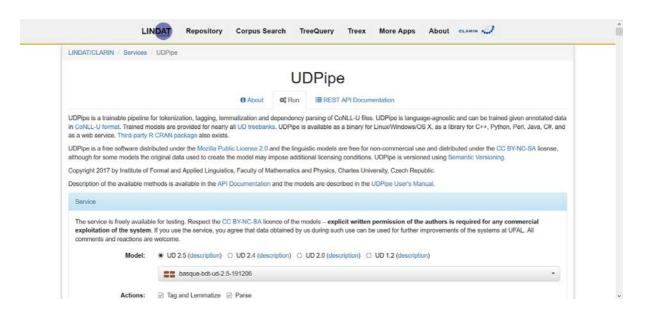
3. Language Resource Switchboard

• After being redirected to the Language Resource Switchboard, she indicates that the input file contains BASQUE data.

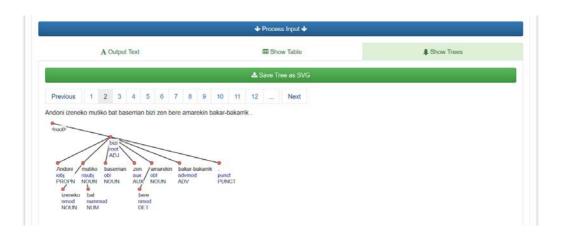


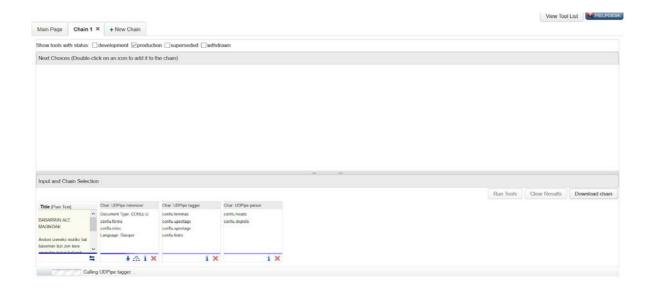
- Then he clicks on Show Tools.
- This combination results in 1 available tool, WEBLIHGT. She clicks on this tool to see more details.
- Now he invokes WEBLIHGT via the **Click to start tool** button.

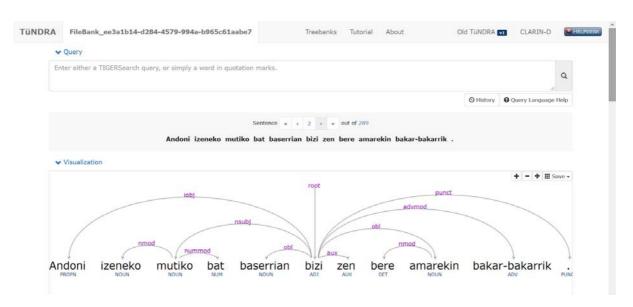










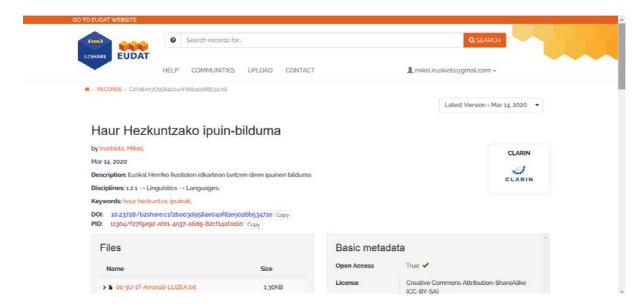


5. Publishing the results in B2SHARE



- At the <u>EOSC-portal market place</u>, the researcher searches for "Store and publish research data". Then he finds <u>B2SHARE</u> as potential publication platform.
- From there he navigates to <u>B2SHARE</u> and uses single-sign on to authenticate. Since he authenticated to B2DROP before, it is not necessary anymore to enter a username and password.

- He clicks on the Create a new record button, enters a title, selects the CLARIN community and finally clicks on Create Draft Record.
- After entering the necessary metadata, he checks the **Submit draft for publication** checkbox and clicks on the **Save and Publish** button. This will make the dataset available via a persistent identifier.
- Her submissions will be findable in the <u>Virtual Language Observatory</u> and <u>B2FIND</u> within a day.



Alternative data publication option

Many CLARIN centres are providing depositing services.

Goals / Helburuak

Study and carry out how CLARIN tools can be used to perform the complete research lifecycle in the cloud using EOSC services.

Requirements / Betebeharrak

Computer scientists or linguist

Framework / Esparrua

In collaboration with CLARIN and IXA-CLARIN-k.

Tasks and plan / Atazak eta plana

- 1. Study and understand how EOSC and CLARIN works:
- 2. Design a small research lifecycle using CLARIN data and technologies.
- 3. Compare the results with other methods and tools.

References:

Krauwer, S., & Hinrichs, E. (2014). The CLARIN research infrastructure: resources and tools for e-humanities scholars. In Proceedings of the Ninth International Conference on Language Resources and Evaluation (LREC-2014) (pp. 1525-1531). European Language Resources Association (ELRA).

Bassett, S., Wessels, L., Krauwer, S., Maegaard, B., Hollander, H., Admiraal, F., ... & Uiterwaal, F. (2019, March). Connecting the Humanities through Research Infrastructures.

https://www.clarin.eu/eosc