/ 1 BACKGROUND

- Successful research is a co-operative process building on dialogue and sharing of insight, data and results of earlier work.
- Increasing focus on open access to scientific information, including research data (cf. guidelines issued by e.g. The Research Council of Norway, EU-OSI, and UNESCO).
- Need for digital infrastructure for research data management.
- Request from academic community for digital tool for sharing linguistic research data.

- University Library at UiT The Arctic University of Norway (ULT) establishes TROLLing - The Tromsø Repository of Language and Linguistics, an international archive of linguistic data and statistical code.
- Officially launched on 18 June 2014.

/ 2 HIGHLIGHTS

- Built on the Dataverse Network, a SW originated from Harvard University.
- The Dataverse metadata scheme complies with the scheme from DataCite – International Data Citation Initiative, a global association of member institutions supporting data archiving.
- Compliant with CLARIN (Common Language Resources and Technology Infrastructure in the EU).
- Ensuring correct registration of metadata and persistence of data format, providing user support by creating guidelines and instruction videos and by taking care of user questions and requests, provided by UBT and TROLLing.
- Using metadata standard that ensures visibility and retrieval through international services.

/ 3 PROCESSES

1) Create user account
2) Create a study
   a. Enter descriptive information
   b. Upload data
3) Search a study
4) Reuse / cite a study

/ 5 SYSTEM FEATURES

- The system is based on Dataverse Network (DVN).
- The DVN software is a multi-tier Java enterprise application that makes use of Java Server Faces in the User Interface layer, Enterprise Java Beans in the middle tier, and PostgreSQL as the database.
- Cataloging fields and descriptions are indexed using Lucene Index Server, and are searchable across all datasets and within a dataset.
- Customizable metadata support.
- DVN generates a formal data citation with a persistent identifier (DOI or handle) and Universal Cataloging fields and descriptions are indexed using Lucene Index Server, and are searchable.
- Files uploaded in SPSS, R, STATA or GraphML offer additional sub-setting and analysis services.
- DVN generates a formal data citation with a persistent identifier (DOI or handle) and Universal Cataloging.
- The DVN software is a multi-tier Java enterprise application that makes use of Java Server Faces.
- The system is based on Dataverse Network (DVN).
- The system is based on Dataverse Network (DVN).

/ 4 PEOPLE

- Research community: Initiative and conceptual input from the TROLLing - The Tromsø Repository of Language and Linguistics board:
  - Prof. Laura A. Janda, prof. Tore Nesset (both Department of Language and Linguistics, UiT)

- System: project conduct, development and management by UBT:
  - Stein Heydalsvik, Leif Longva, Odu Obiajulu

- Curators: Approving new users and uploaded studies; ensuring correct registration of metadata and persistence of data format; providing user support by creating guidelines and instruction videos and by taking care of user questions and requests, provided by UBT - Helene N. Andreassen, Philipp Conzett

- Scientific advisory board: Advising on board matters and strategic issues
  - Maria Polinsky (Harvard University)
  - Hans Boas, a professor of linguistics at the University of Texas at Austin, Dagmar Divjak (University of Sheffield), Maria Polinsky (Harvard University)

/ 6 OUTLOOK

- UI/UX design and development.
- Raising awareness of the benefits of sharing scientific information among academic community.
- Expanding scope to new scientific fields.
- Technical issue 2: Providing better procedures for ensuring the persistence of uploaded data.
- Technical issue 1: Facilitate access to the data archive by providing standard log-in solutions (e.g., FEIDE, EduGain,...).
- Technical issue 2: Providing better procedures for ensuring the persistence of uploaded data.
- Technical issue 1: Facilitate access to the data archive by providing standard log-in solutions (e.g., FEIDE, EduGain,...).
- Raising awareness of the benefits of sharing scientific information among academic community, research advisors and students.
- Developing teaching curriculum for best practices in research data management.

/ 7 APPRAISAL

"In the age of Big Data, the creation of a general repository of datasets and statistical models for linguistic research is a welcome development. It will stimulate more research and new analyses." — Maria Polinsky, Director of the Multilingual Language Sciences Lab at Harvard University.

"TROLLing is crucial for the field of linguistics as it takes the next steps towards becoming more empirical. For the first time, it will be possible for researchers to deposit their primary linguistic data (the foundation for all research) in a central, freely accessible, online repository so that colleagues around the world have access to the same data. This invaluable resource will promote ongoing academic exchange on an empirical basis." — Hans Boas, Professor, Department of Germanic Studies and the Department of Linguistics, University of Texas at Austin.

"TROLLing is exactly what our field needs - with the potential to become the most useful data resource in linguistics." — Martin Westergård, Professor, Center for Advanced Study of Theoretical Linguistics, UiT.

"I would like to recommend that scholars deposit their data at TROLLing. I strongly believe that sharing of data and methods for analysis can play a key role in the growth of cognitive linguistics. It will be beneficial for the community of linguists to have a single searchable repository rather than having data scattered about in many places." — Laura Janda, Professor, Center for Advanced Study of Theoretical Linguistics, UiT.

/ 8 GET STARTED!

http://site.uit.no/trolling/getting-started/

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