

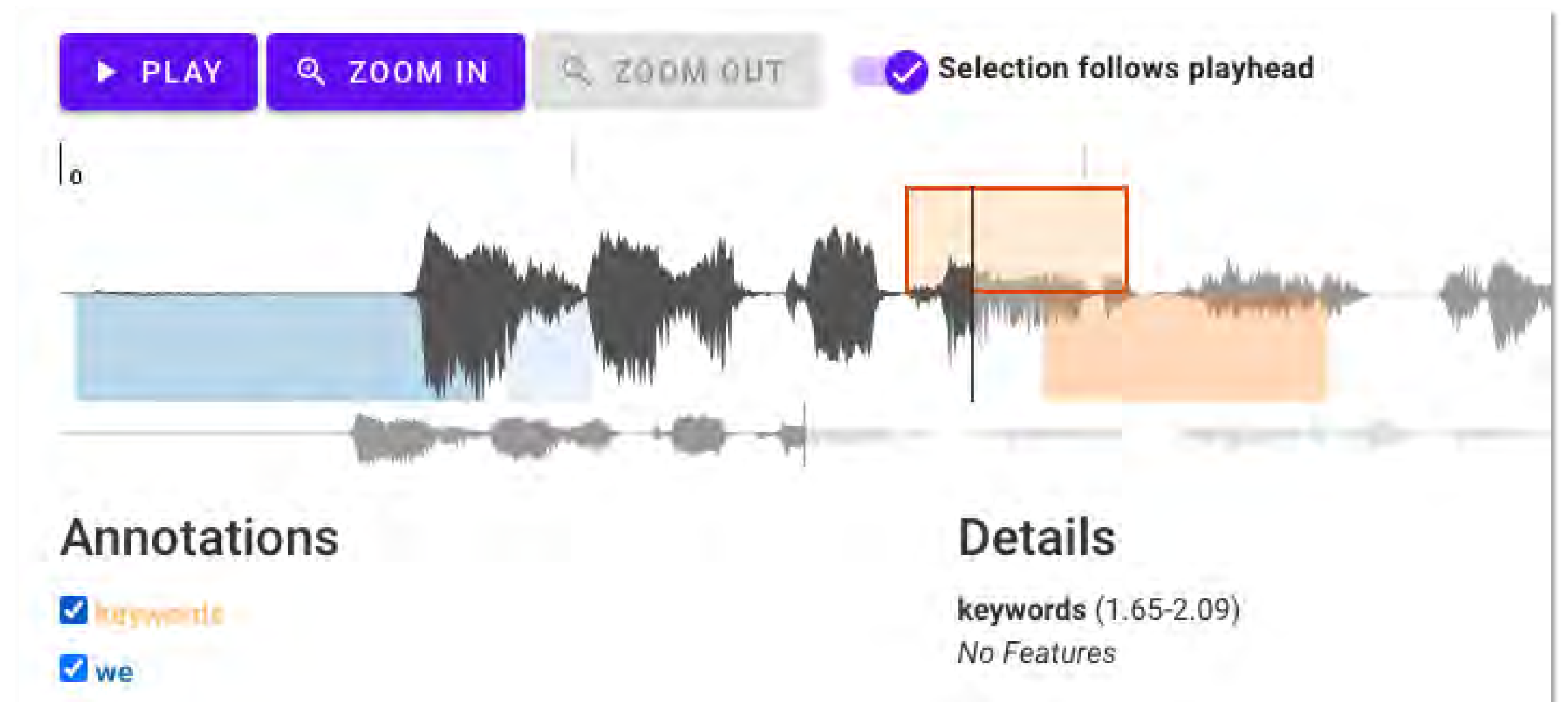
European Language Grid – META-FORUM 2021

Kalina Bontcheva – European Language Grid: LT Services and Resources

- Current State of Play
- Future Plans: Releases 3

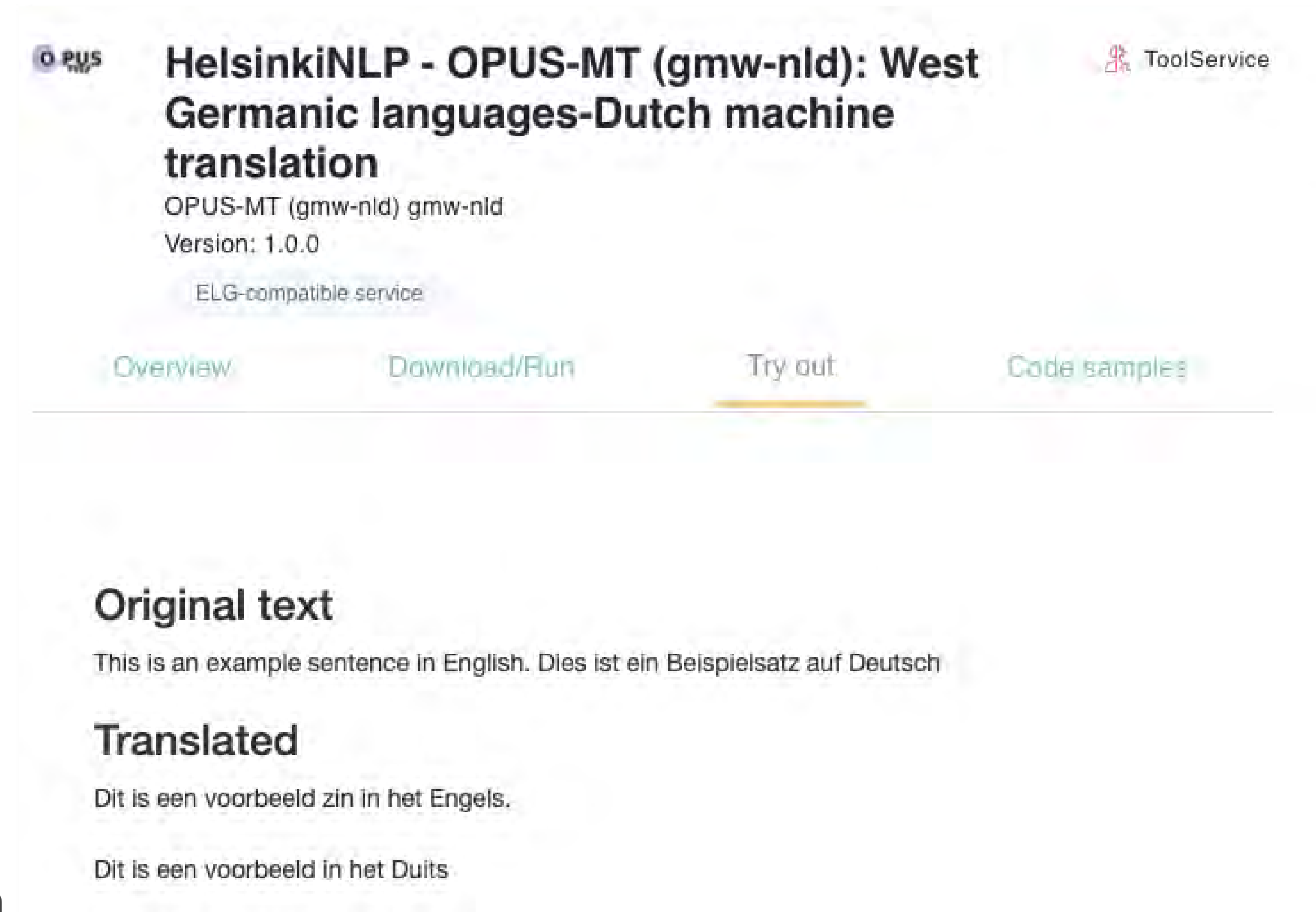
LT Services: From the consortium

- ELG Release 1 in April 2020 finalized APIs for major classes of services (ASR, IE, MT, TTS)
- Concentrated on a subset of EU languages – Czech, English, French, German, Greek, Latvian, Spanish (native languages of the ELG consortium)
 - 9 ASR services, approx. 150 distinct services for IE & Text Analytics, 24 MT, 2 TTS
- Release 2 (early 2021) added support for more EU and related languages
 - 8 further ASR services, approx. 300 IE & Text Analytics, 24 MT, 17 TTS
- ... and APIs for additional service types
 - 12 services doing keyword spotting in audio data
- Release 3 (2022) will add more languages beyond the EU (13 ASR, approx. 150 IE, 9 MT), and new service types including OCR



LT Services: From the Pilots

- Many additional services have been contributed by the ELG-funded pilot projects, more to follow for R3
- Services already integrated include:
 - Over 100 MT language pairs from OPUS-MT
 - including non-EN pairs like German-Croatian
 - and multilingual models able to take input in mixed languages
 - Clinical NER in 5 languages from E3C
 - 37 services from Lingsoft (a mix of MT, ASR & IE)
 - Basque language ASR and TTS from Elhuyar
 - Terminology extraction service from Text2TCS
 - Italian classification services from EVALITA
- ... more on some of these projects in the next session



HelsinkiNLP - OPUS-MT (gmw-nld): West Germanic languages-Dutch machine translation

OPUS-MT (gmw-nld) gmw-nld
Version: 1.0.0

ELG-compatible service

[Overview](#) [Download/Run](#) [Try out](#) [Code samples](#)

Original text

This is an example sentence in English. Dies ist ein Beispielsatz auf Deutsch

Translated

Dit is een voorbeeld zin in het Engels.

Dit is een voorbeeld in het Duits

LT Services: from elsewhere

- Other research projects have contributed services including
 - Anonymisation from COMPRISE
 - Sentiment analysis from EMBEDDIA
 - Archaeological NER from ARIADNE
 - Summarisation, document classification and language ID from QURATOR
 - Credibility assessment service from PANQURA
 - Welsh language tools from Bangor University
- Final release will open up the platform to third party *commercial* providers

Language Resources: metadata description and harvesting

- ELG has imported metadata from many other repositories:
 - ELRA Catalogue, ELRC-SHARE, ELRA-SHARE-LRs, LINDAT/CLARIAH-CZ, CLARIN PL repository, CLARIN Slovenia repository, META-SHARE-DFKI, META-SHARE-ELDA and META-SHARE-ILSP, Hugging Face, Quantum Stat, Zenodo
- Some metadata can be imported automatically, some need manual correction

The screenshot shows the ELG interface for the dataset 'The Annotated Corpus of Classical Tibetan (ACTib), Part I - Segmented version, based on the BDRC digitised text collection, tagged with the Memory-Based Tagger from TiMBL. Version: 1'. The interface includes a header with the dataset title and version, a 'Corpus' icon, and tabs for 'Overview' and 'Download'. Below the header, there is a description of the corpus and a 'Read more' button. The main content area is divided into three columns: 'Keyword' (listing terms like Trans-Himalayan Linguistics, Tibetan linguistics, memory based tagging, corpus linguistics, natural language processing, Tibetan language, Trans-Himalayan Linguistics, and Tibetan linguistics), 'Intended application' (listing Natural Language Processing), and 'Corpus subclass' (listing annotated corpus). At the bottom, there is a 'Corpus part' section with a table showing the corpus part (TEXT), language type (monolingual), language (Classical Tibetan), and annotation type (Part of Speech). On the right side, there is an 'Export' section with a dropdown menu set to 'XML', an 'All versions' section with a link to the dataset, and an 'Additional information' section with a link to the landing page and a 'Source of metadata record' section with a link to Zenodo.

The screenshot shows the ELG interface for the dataset 'The Annotated Corpus of Classical Tibetan (ACTib), Part I - Segmented version, based on the BDRC digitised text collection, tagged with the Memory-Based Tagger from TiMBL. Version: 1'. The interface includes a header with the dataset title and version, a 'Corpus' icon, and tabs for 'Overview' and 'Download'. Below the header, there is a description of the corpus and a 'Read more' button. The main content area is divided into three columns: 'Keyword' (listing terms like Trans-Himalayan Linguistics, Tibetan linguistics, memory based tagging, corpus linguistics, natural language processing, Tibetan language, Trans-Himalayan Linguistics, and Tibetan linguistics), 'Intended application' (listing Natural Language Processing), and 'Corpus subclass' (listing annotated corpus). At the bottom, there is a 'Corpus part' section with a table showing the corpus part (TEXT), language type (monolingual), language (Classical Tibetan), and annotation type (Part of Speech). On the right side, there is an 'Export' section with a dropdown menu set to 'XML', an 'All versions' section with a link to the dataset, and an 'Additional information' section with a link to the landing page and a 'Source of metadata record' section with a link to Zenodo.


Some statistics on ingested LR_s that are publicly visible

Repository	Corpora	Lexical/Conceptual Resources	Models & Computational grammars	Total
ELRA	635	545	—	1180
ELRC-SHARE	1249	50		1299
META-SHARE	52	12	7	71
ELRA-SHARE-LR _s	92	33	1	126
LINDAT/CLARIAH-CZ	274	79	—	353
CLARIN.SI	140	78	—	218
CLARIN.PL	239	15	—	254
Quantum Stat	255	5	—	260
Zenodo	137	99	24	*260
Tudatalib	1	—	—	1
HuggingFace	385	—	—	385
Others	72	28	5	105
TOTAL	3531	944	37	4512

*approx. 400 ingested resources are still under validation

Language Resources: hosted datasets

- Data resources can also be hosted at ELG for direct download, e.g., from pilot projects




European Clinical Case Corpus
E3C-Corpus
Version: 2.0.0 (09/08/2021)


Overview

Download

Related LRTs

 **Distribution**

Download



Dataset distribution form downloadable

Text feature size

151384 token

Data format

XMI

Character encoding


UTF-8

Licence

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Turku Paraphrase Corpus
TurkuParaC
Version: 1.0.0 (automatically assigned) (30/06/2021)

Overview

Download

The Turku Paraphrase corpus consists of over 100,000+ manually selected Finnish paraphrases, most of which are in their document context. The paraphrases are manually classified using a scheme capturing the degree of contextual dependence, as well as a possible subsumption relation and other flags such as style and min

Read more

Keyword

paraphrases Finnish

Swedish

meaning representation

representation learning

Intended application

Paraphrasing

Training of language models

Conversational systems building

Information Retrieval

Natural Language Generation

Corpus subclass

annotated corpus


Export


XML

All versions


Turku Paraphrase Corpus (1.0.0 (automatically assigned))

Resource provider


 TurkuNLP

 Website


Additional information

 Landing page

Contact



Corpus part

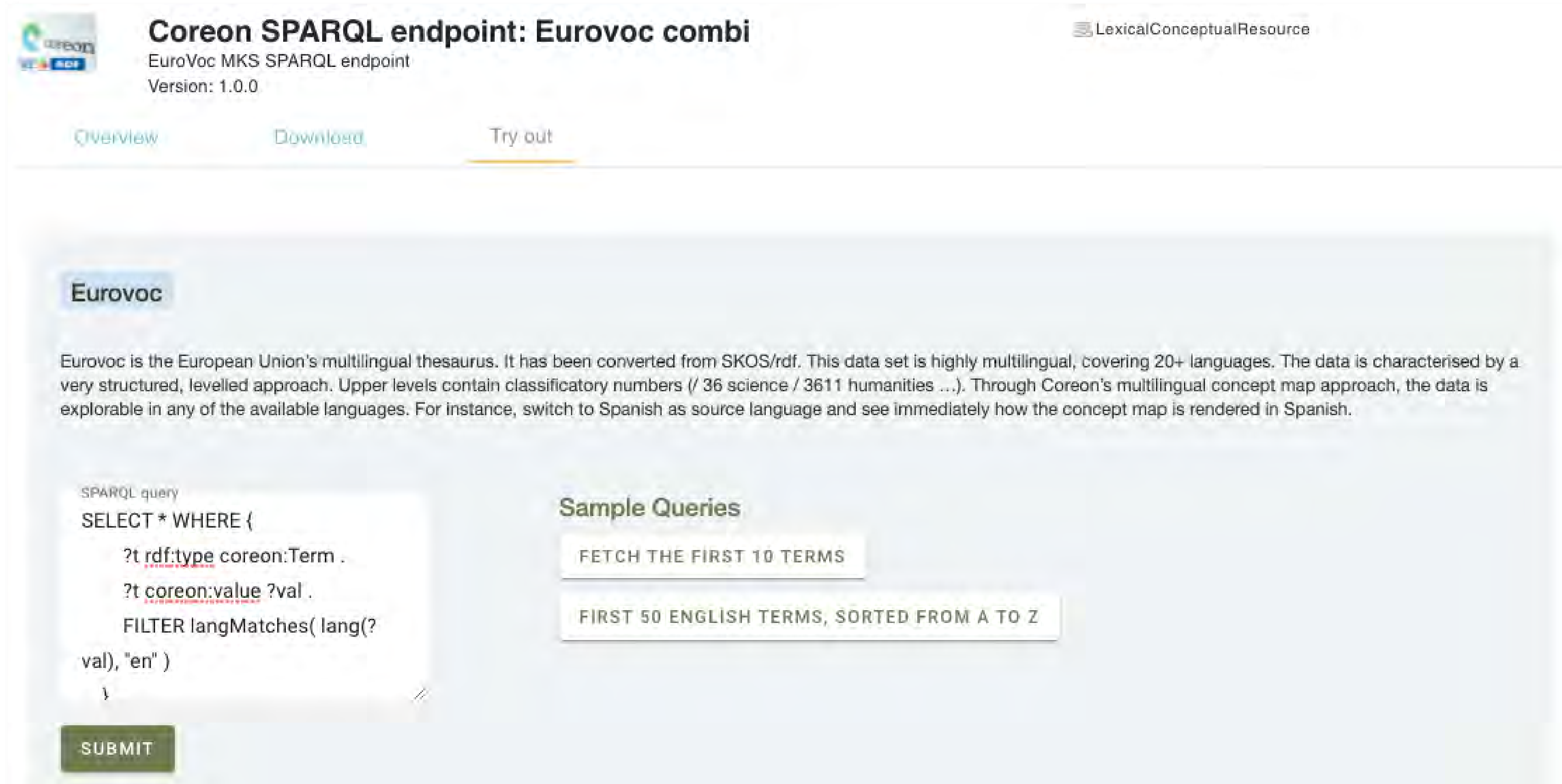
 TEXT

Linguality type

multilingual

Language Resources: other LR types

- Besides downloadable LRs, ELG also supports LRs accessed via a query interface
- Coreon pilot project integrated SPARQL endpoints queryable through ELG



The screenshot shows the 'Coreon SPARQL endpoint: Eurovoc combi' interface. At the top, there's a header with the Coreon logo, the title 'Coreon SPARQL endpoint: Eurovoc combi', the subtitle 'EuroVoc MKS SPARQL endpoint', the version 'Version: 1.0.0', and a 'LexicalConceptualResource' icon. Below the header are three tabs: 'Overview', 'Download', and 'Try out', with 'Try out' being the active tab. The main content area is titled 'Eurovoc' and contains a paragraph describing Eurovoc as the European Union's multilingual thesaurus, converted from SKOS/rdf, covering 20+ languages. Below this, there's a 'SPARQL query' section with a text area containing a query:

```
SELECT * WHERE {  
  ?t rdf:type coreon:Term .  
  ?t coreon:value ?val .  
  FILTER langMatches( lang(?  
val), "en" )  
}
```

 and a 'SUBMIT' button. To the right of the query area is a 'Sample Queries' section with two buttons: 'FETCH THE FIRST 10 TERMS' and 'FIRST 50 ENGLISH TERMS, SORTED FROM A TO Z'.

Coreon SPARQL endpoint: Eurovoc combi
EuroVoc MKS SPARQL endpoint
Version: 1.0.0

Overview Download **Try out**

Eurovoc

Eurovoc is the European Union's multilingual thesaurus. It has been converted from SKOS/rdf. This data set is highly multilingual, covering 20+ languages. The data is characterised by a very structured, levelled approach. Upper levels contain classificatory numbers (/ 36 science / 3611 humanities ...). Through Coreon's multilingual concept map approach, the data is explorable in any of the available languages. For instance, switch to Spanish as source language and see immediately how the concept map is rendered in Spanish.

SPARQL query

```
SELECT * WHERE {  
  ?t rdf:type coreon:Term .  
  ?t coreon:value ?val .  
  FILTER langMatches( lang(?  
val), "en" )  
}
```

Sample Queries

FETCH THE FIRST 10 TERMS

FIRST 50 ENGLISH TERMS, SORTED FROM A TO Z

SUBMIT

Language Resources: current state


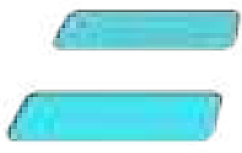
- Some large and important repositories (Zenodo, HuggingFace) are particularly complex, with sparse or variable quality metadata
 - Different strategies have been applied to handle this
- Critical issues being addressed include:
 - Duplication – the same resource in multiple repositories
 - Re-use – datasets that claim to be distinct but have data in common, e.g., WMT or RumourEval shared tasks
 - Updates – new datasets added to already imported repositories
- Legal issues
 - ELG is a complex platform with heterogeneous data flows that require monitoring for GDPR compliance
 - ELG services and datasets use over 130 different licences between them
 - Work in progress to characterise and homogenise licence conditions to aid search (e.g., user may only want data sets that are not share-alike)



Come and visit us at the ELG booth in the project expo!

→ Project expo (today, 12:00-13:30)

Summary and Next Steps

- Establish ELG as the primary platform and marketplace for Language Technology in Europe.
- An initiative *from* the European LT community *for* the European LT community.
- European LT landscape is **highly fragmented**: ELG aims to provide just the right **umbrella platform**.
- Global market size by 2025 is enormous: we want the European LT community to be a **key player**.
- We want to **increase the visibility and reach of all members of the European LT landscape**.

- ELG is a long-term initiative: we will establish a **legal entity** for sustainability, which will operate and maintain the technology platform for the whole LT community as a joint marketplace.
- Contribute to **Digital Language Equality** in Europe by giving all our languages one virtual home and umbrella platform that collects **all** services and resources (**ELE**).
 **EUROPEAN
LANGUAGE
EQUALITY**
- **Next steps**: validation of **ELG products**; attach more **data repositories**; include ELG in **relevant infrastructures** (e.g., NFDI, GAIA-X); **raise awareness** of LT for Europe; organise **META-FORUM 2022**; develop **ELG Release 3** (early 2022); establish the **ELG legal entity** (2022).

European Language Grid: An Overview

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Abstract

Making Metadata Fit for Next Generation Language Technology Platforms: The Metadata Schema of the European Language Grid

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Abstract

The current scientific and technological landscape is characterised by the increasing availability of data resources and processing tools and services. In this setting, metadata have emerged as a key factor facilitating management, sharing and usage of such digital assets. In this paper we present ELG-SHARE, a rich metadata schema catering for the description of Language Resources and Technologies (processing and generation services and tools, models, corpora, term lists, etc.), as well as related entities (e.g., organizations, projects, supporting documents, etc.). The schema powers the European Language Grid platform that aims to be the primary hub and marketplace for industry-relevant Language Technology in Europe. ELG-SHARE has been based on various metadata schemas, vocabularies, and ontologies, as well as related recommendations and guidelines.

Keywords: metadata, language technology, language technology services, language resources

1. Introduction

The rise of data-driven approaches that use Machine Learning (ML), and especially the breakthroughs in the Deep Learning field, has put data into a central place in all scientific and technological areas, Natural Language Processing (NLP) being no exception. Datasets and NLP tools and services are made available through various repositories (institutional, disciplinary, general purpose, etc.), which makes it hard to find the appropriate resources for one's purposes. Even if they are brought together in one catalogue, such as the European Open Science Cloud¹ or the Google dataset search service², the difficulty of spotting the right resources and services among thousands still remains. Metadata plays an instrumental role in solving this puzzle, as it becomes the intermediary between consumers (humans and machines) and digital resources.

In addition, in the European Union, with the 24 official and many additional languages, multilingualism, cross-lingual and cross-cultural communication in Europe as well as an inclusive Digital Single Market³ can only be enabled and firmly established through Language Technologies (LT). The boosting of the LT domain is thus of utmost importance. To this end, the European LT industry needs to be strengthened, promote its products and services, integrate them into applications, and collaborate with academia into advancing research and innovation, and bringing research outcomes to a mature level of entering the market. The European Language Grid (ELG) project⁴ aims to drive forward the European LT sector by creating a platform and establishing it as the primary hub and marketplace for the LT community. The ELG is developed to be a scalable

cloud platform, providing in an easy-to-integrate way, access to hundreds of commercial and non-commercial LTs for all European languages, including running tools and services as well as data resources. Discovery of and access to these resources can only be achieved through an appropriate metadata schema. We present here the ELG-SHARE schema, which is used for the description of LT-related resources shared through the ELG platform and its contribution to the project goals.

2. Objectives

The ELG project (Rehm et al., 2020a) aims to foster European LT by addressing the fragmentation that hinders its development; see indicatively (Rehm and Hegele, 2018; Rehm et al., 2016). To this end, it builds a platform dedicated to the *distribution and deployment of Language Resources and Technologies (LRT)*, aspiring to establish it as the primary platform and marketplace for industry-relevant LT in Europe. The *promotion of LT stakeholders and activities* and growth of their visibility and outreach is also one of its goals. Together with complementary material in the portal (e.g., training material, information on events, job offerings, etc.), ELG offers a comprehensive picture of the European LT sector.

The ELG platform⁵ will offer access to hundreds of *commercial and non-commercial LTs* and ancillary *data LRs* for all European languages and more; these include processing and generation services, tools, applications for written and spoken language, corpora, lexicons, ontologies, term lists, models, etc. All resources are accessed through their descriptions in the ELG catalogue. LRT providers can describe, upload, and integrate their assets in ELG, and LRT

¹<https://www.eosc-portal.eu>

²<https://toolbox.google.com/datasetsearch>

³<https://ec.europa.eu/digital-single-market/en>

⁴<https://www.european-language-grid.eu>

⁵The ELG platform has just been launched (alpha release) and will continue to be updated with new resources and functionalities (official release dates are on April of 2020, 2021 and 2022).

The European Language Technology Landscape in 2020: Language-Centric and Human-Centric AI for Cross-Cultural Communication in Multilingual Europe

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European Language Grid: A Joint Platform for the European Language Technology Community

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Abstract

Europe is a multilingual society, in which dozens of languages are spoken. The only option to enable and to benefit from multilingualism is through Language Technologies (LT), i.e., Natural Language Processing and Speech Technologies. We describe the European Language Grid (ELG), which is targeted to evolve into the primary platform and marketplace for LT in Europe by providing one umbrella platform for the European LT landscape, including research and industry, enabling all stakeholders to upload, share and distribute their services, products and resources. At the end of our EU project, which will establish a legal entity in 2022, the ELG will provide access to approx. 1300 services for all European languages as well as thousands of data sets.

1 Introduction

Europe is a multilingual society with 24 EU Member State languages and dozens of additional languages including regional and minority languages and languages spoken by immigrants, trade partners and tourists. The only option to enable and to benefit from multilingualism is through Language Technologies (LT) including Natural Language Processing (NLP) and Speech Technologies (Rehm, 2017). While the European LT landscape is world class, it is also massively fragmented (Vasiljevs et al., 2019; Rehm et al., 2020d).

We describe Release 2 of the European Language Grid (ELG) cloud platform.¹ This scalable system is targeted to evolve into the primary

¹<https://www.european-language-grid.eu>. We provide a screencast demo video at <https://youtu.be/LD6QadkZiM>.

platform for LT in Europe. It will provide one umbrella platform for all LTs developed by the European LT landscape, including research and industry, addressing a gap that has been repeatedly raised by the European LT community for many years (Rehm and Uszkoreit, 2013; Rehm et al., 2016b; STOA, 2017; Rehm, 2017; Rehm and Hegele, 2018; European Parliament, 2018). ELG is meant to be a virtual home and marketplace for all products, services and organisations active in the LT space in Europe (Rehm et al., 2020a). The platform can be used by all stakeholders to case, share and distribute their products, tools and resources. At the end of the ELG (2019-2022), which will establish a tity in early 2022, the platform will provide to approx. 1300 commercial and non-commercial tools and services for all European languages as well as thousands of language resource ELG will enable the European LT community to deposit and upload their technologies and and to deploy them through the grid. It is also meant to support *digital language* in Europe (STOA, 2017; European Parliament, 2018), i.e., to create a situation in which languages are supported through technologies well. The current imbalance is characterised by stark predominance of LTs for English, most all other languages are only marginally supported and, thus, in danger of digital language extinction (Rehm and Uszkoreit, 2012; Kornai, 2013; Rehm et al., 2014, 2016a; ELRC, 2019).

Section 2 gives an overview of the ELG platform and related activities. Section 3 touches upon related work. Section 4 concludes the paper.

Towards an Interoperable Ecosystem of AI and LT Platforms A Roadmap for the Implementation of Different Levels of Interoperability

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Abstract

LREC 2020 Workshop Language Resources and Evaluation Conference 11–16 May 2020

IWLTP 2020 – 1st International Workshop on Language Technology Platforms

PROCEEDINGS



Coming up:

- European Language Grid book (2022)
 - European Language Equality book (2022)
- ## Plus: ELG Online Documentation

Edited by:

Georg Rehm, Kalina Bontcheva, Khalid Choukri,
Jan Hajič, Stelios Piperidis, Andrejs Vasiljevs





European Language Technology

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This is the combined channel of the EU projects European Language Equality (ELE) and European Language Grid (ELG) – together working towards a joint network of language technology for Europe’s languages and digital language equality by 2030. Follow us for project updates, events and news from the European artificial...
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European Language Technology

74 Tweets

@EuroLangTech

The channel of the EU projects European Language Equality and European Language Grid, fostering the LT community towards digital language equality by 2030!

Europe [european-language-technology.eu](#) Joined June 2021

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More than 65k impressions already!



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European Language Technology is the combined communication channel for the sister projects European Language Grid (ELG) and European Language Equality (ELE) – funded by the European Commission.

For further information about either project – their goals, consortium partners, and contact details etc. – please click below:

<https://www.linkedin.com/company/european-language-technology>

<https://twitter.com/EuroLangTech>

<https://www.european-language-technology.eu>

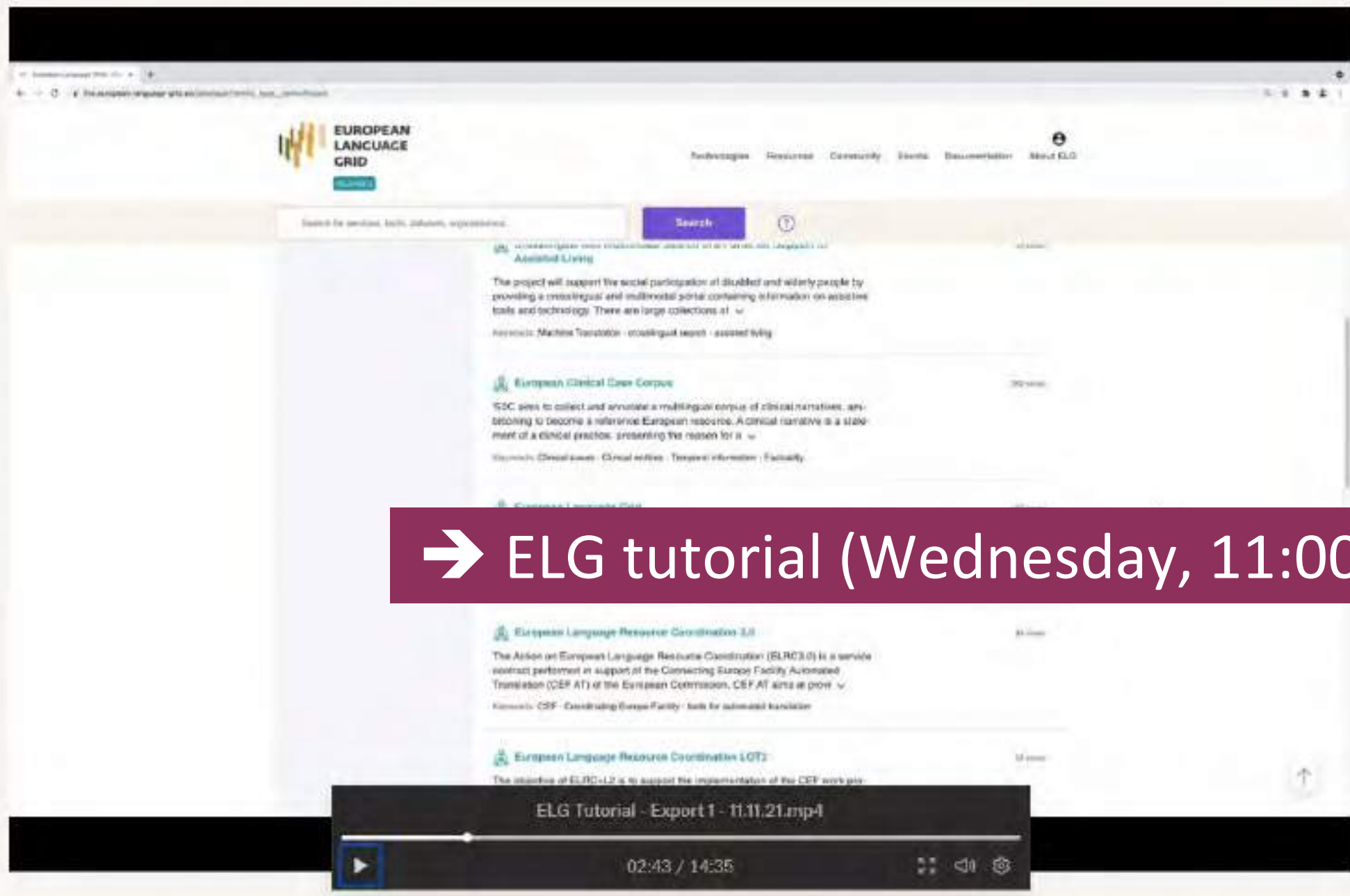
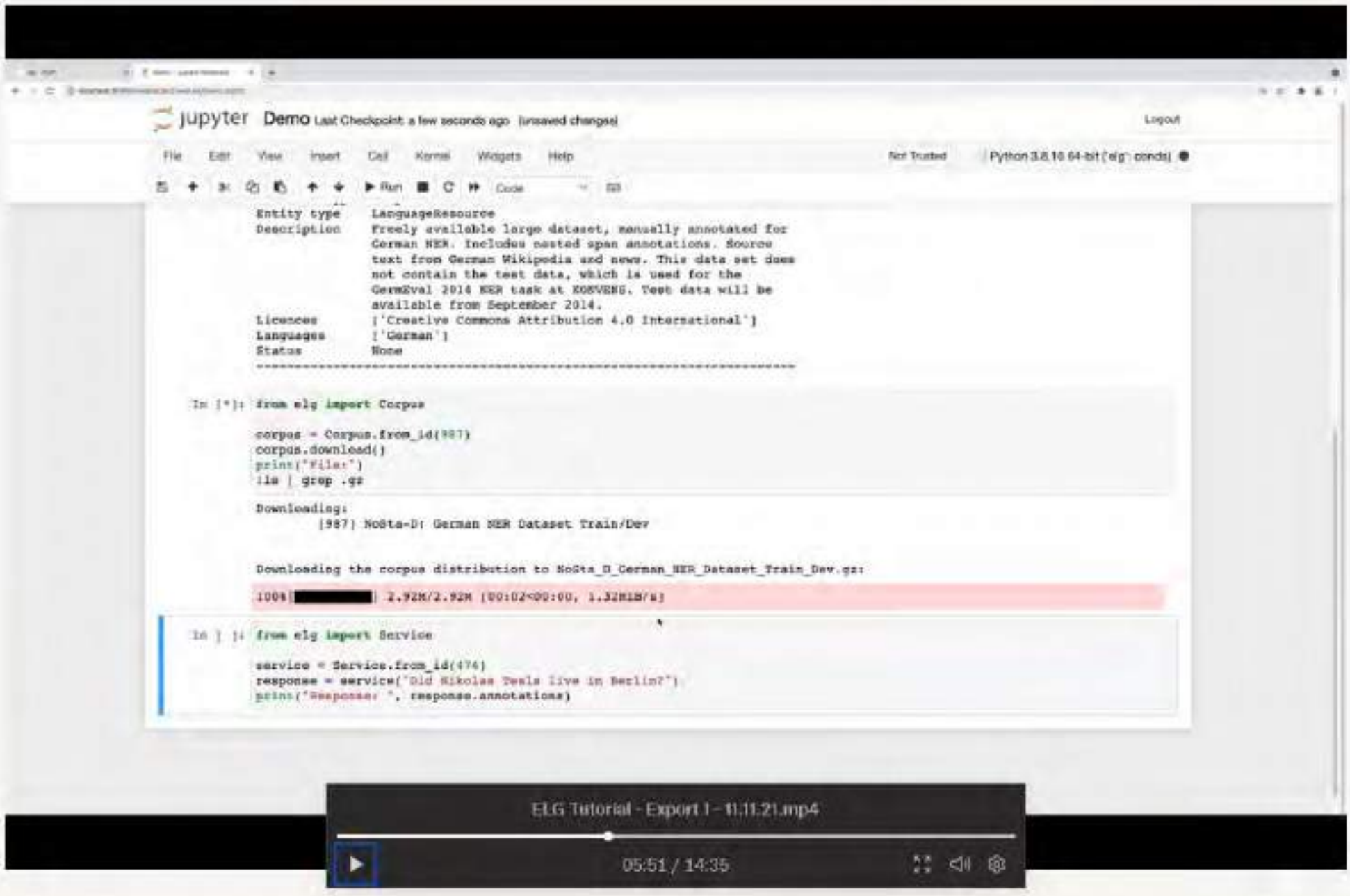
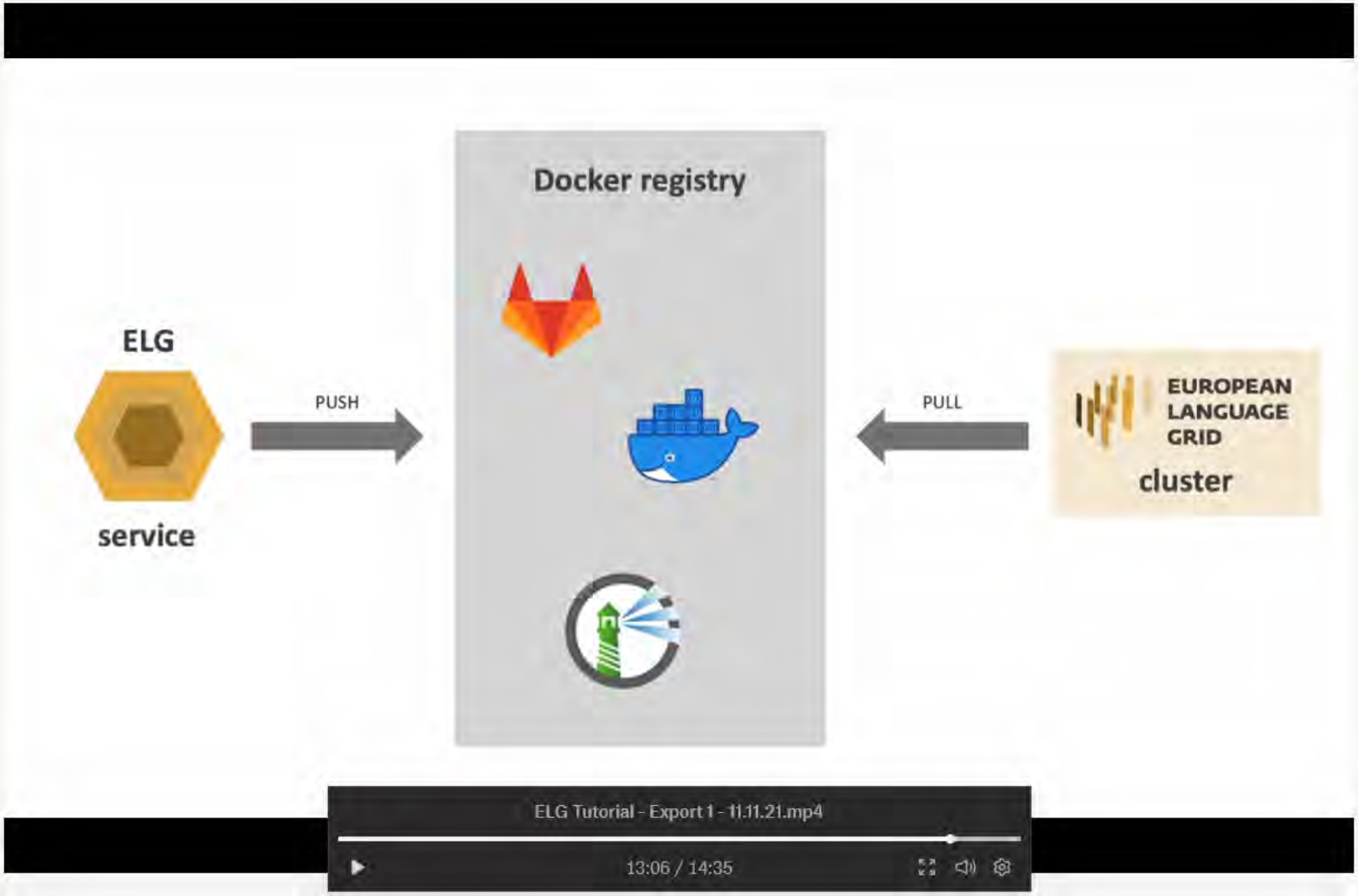
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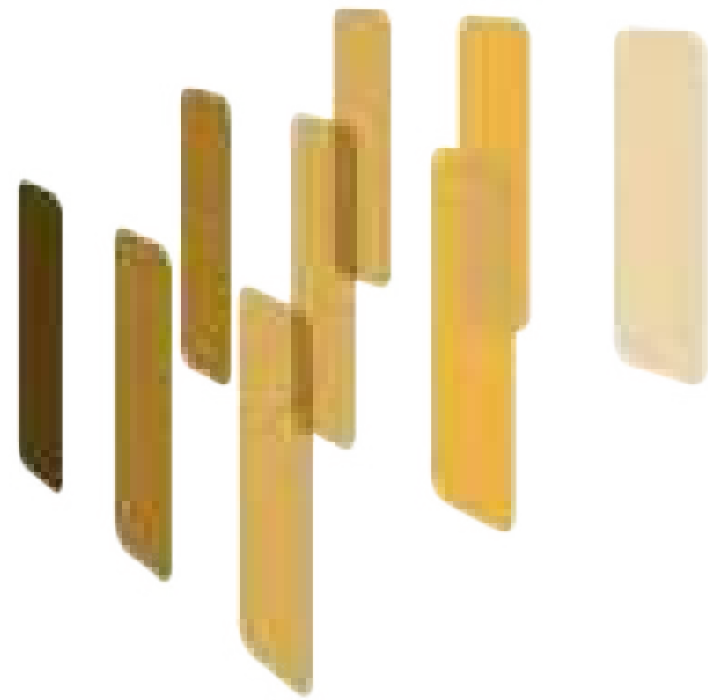
More than 2200 subscribers already!



European Language Technology

Coming soon: ELG tutorial video that explains how to make resources and tools available.





European Language Grid

Thank you!



The European Language Grid has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement № 825627 (ELG).

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15/16/17-11-2021 META-FORUM 2021 – Using the European Language Grid (virtual conference)
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