CLARIN in Estonia – closer to Digital Humanities or Language Technology?

Kadri Vider
Kadri.vider@ut.ee
Center of Estonian Language Resources
University of Tartu, Estonia

CELR

Center of Estonian Language Resources (CELR, ee.clarin.eu)

- The research infrastructure of national importance in the Estonian Research Infrastructures Roadmap
  - To **make Estonian language data and tools available** to everyone working with digital language materials
  - To coordinate and organise the **documentation** and **archiving** of the language data and tools
  - To develop and promote LR **standards in Estonia**
  - To draw up necessary legal contracts and **licences** for **different types of users**: public, academic, commercial, etc
- **CELR performs the obligations of Estonia as the member in CLARIN ERIC**

ee.clarin.eu

CELR

Euroopa Liit
Euroopa
Regionaalarengu Fond

Eesti tuleviku heaks

Center of Estonian Language Resources (CELR)

- Consortium of 4 partners: **University of Tartu, TalTech, Institute of Estonian Language** and **Estonian Literary Museum**
- Archives and makes available LR and LT, incl. all outcomes of NPs “Estonian Language Technology” and “Estonian Language and Culture in the Digital Age”
- Catalogue and META-SHARE Registry of Estonian LRs and LTs
- Provides know-how and expertise about Estonian LR and LT, but also supports researchers with Data Management Planning, data and (web) tools in Digital Humanities

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EESTI KEELETEHNOLOOGIA

NATIONAL PROGRAMME FOR ESTONIAN LANGUAGE TECHNOLOGY

"…to achieve a level of language technology support for the Estonian language to enable the language to successfully operate and thrive in today's information technology-based world. "

2006-2010: 33 R&D projects for software prototypes and language resources

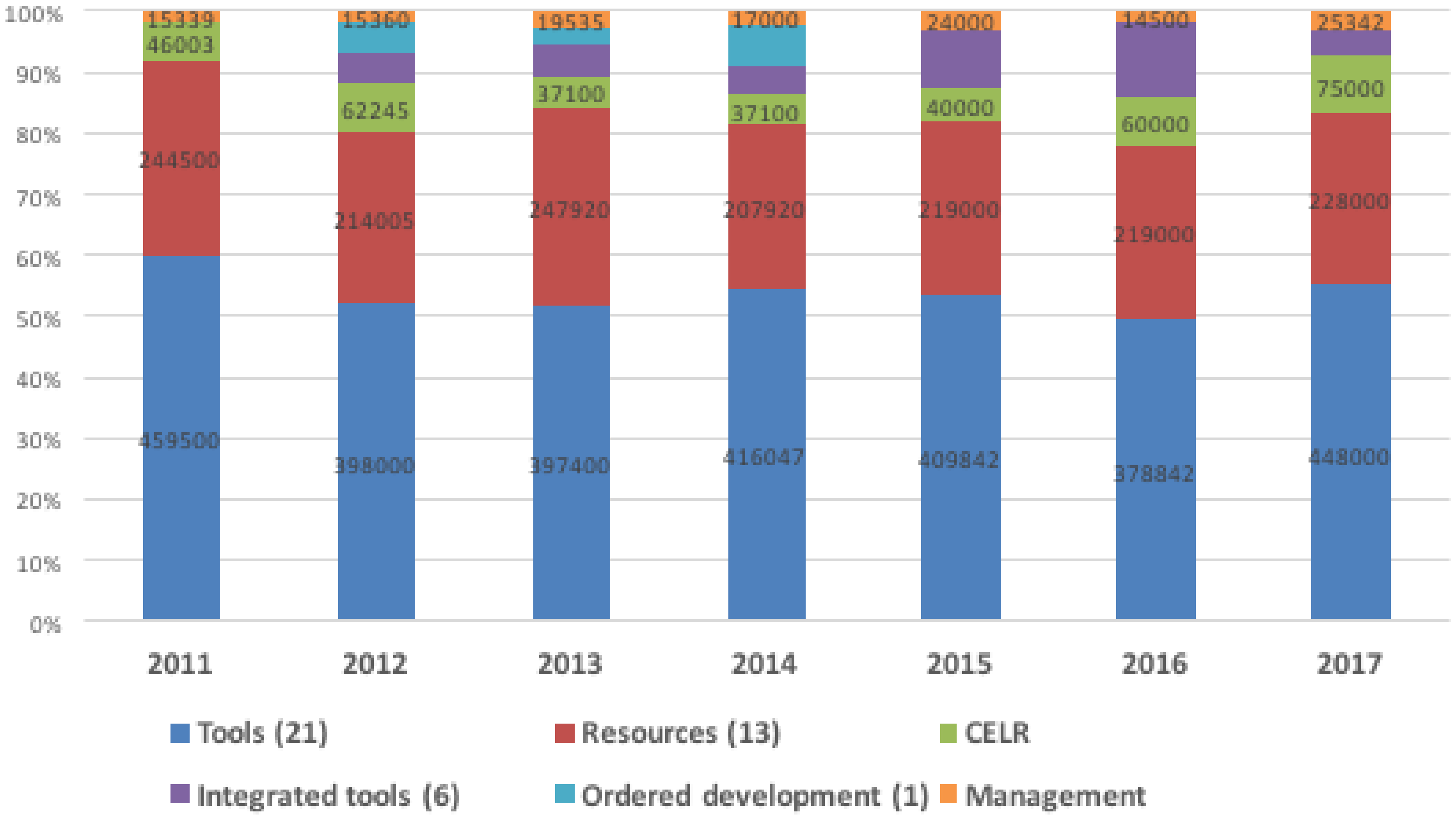
2011-2017: 43 R&D projects in 5 sub-objectives

+ **CELR** has an obligation to manage and to deposit all resources and tools developed within NPELT for preservation and long-term access

All project results (software and resources) are **Open Access, Open Data and Open Source as much as possible**.

www.keeletehnoloogia.ee

NPELT (2011 - 2017) 765 342 €/year



EESTI KEELETEHNOLOOGIA
NATIONAL PROGRAMME FOR ESTONIAN
LANGUAGE TECHNOLOGY

Current period 2018-2027

1) basic technologies and resources:

- Estonian Open Parallel Corpora
- Phonetic Corpus of Spontaneous Estonian Speech III
- Estonian Universal Syntax: Resources and Applications
- Estonian Wordnet as applicable language resource
- Further development of EstNLTK library and related web services
- Speech recognition
- Grammar checker prototype
- Neurotõlge: Adaptive, Multilingual and Reliable Machine Translation for Estonian
- Neural network based text analysis models for Estonian
- Diversification of Estonian text-to-speech synthesis

2) applications of technology:

- TEXTA Toolkit 2.0
- Võro and Seto integrated language technology and language resources

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Estonian Language and Culture in the Digital Age (2019–2027)

- compiling monolingual and bilingual dictionaries and comprehensive studies
- Support the use of language technology tools in studying the language.
- Support the prevalence of language technology applications
- Support wider implementation of data collections and technologies

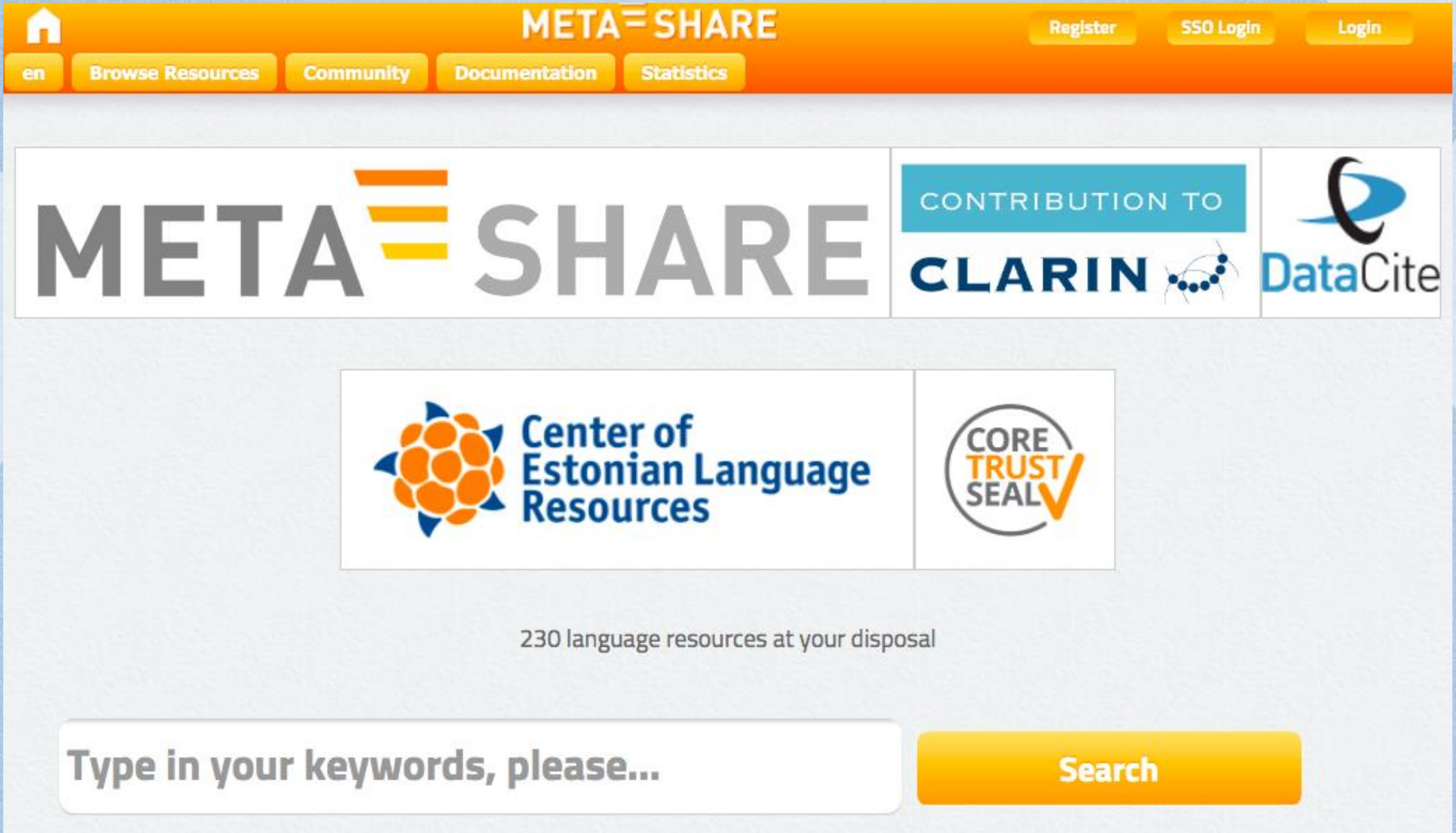
From subobjectives of the programme:
2. Introducing **digital tools in research**, especially results of NPELT
4. The results being **as widely accessible as possible** - publishing research data in repositories, and introducing their (re-)use as **FAIR Open Data**.

Estonian Language and Culture in the Digital Age 2019–2027

Current projects

- Lexis and planning of Estonian: descriptive and prescriptive aspects – Institute of Estonian Language
- Source documents in the cultural process: Estonian materials in the collections and databases of the Estonian Literary Museum - Estonian Literary Museum
- Data and corpora of Estonian children and youth multilingual communication – University of Tallinn
- Possibilities of automatic analysis of historical texts by the example of 19th-century Estonian communal court minutes - UT
- The Ethnic History of Estonian Peoples in the light of new research
- Digi-OWLDI: Five centuries of written Estonian vocablulary, morphology and phonology
- Interdisciplinary corpus of Seto
- Teen speak in Estonia
- The prosody and information structure of surprise questions in Estonian in comparison with other languages

Registry for LR-s - META-SHARE



230 language resources at your disposal

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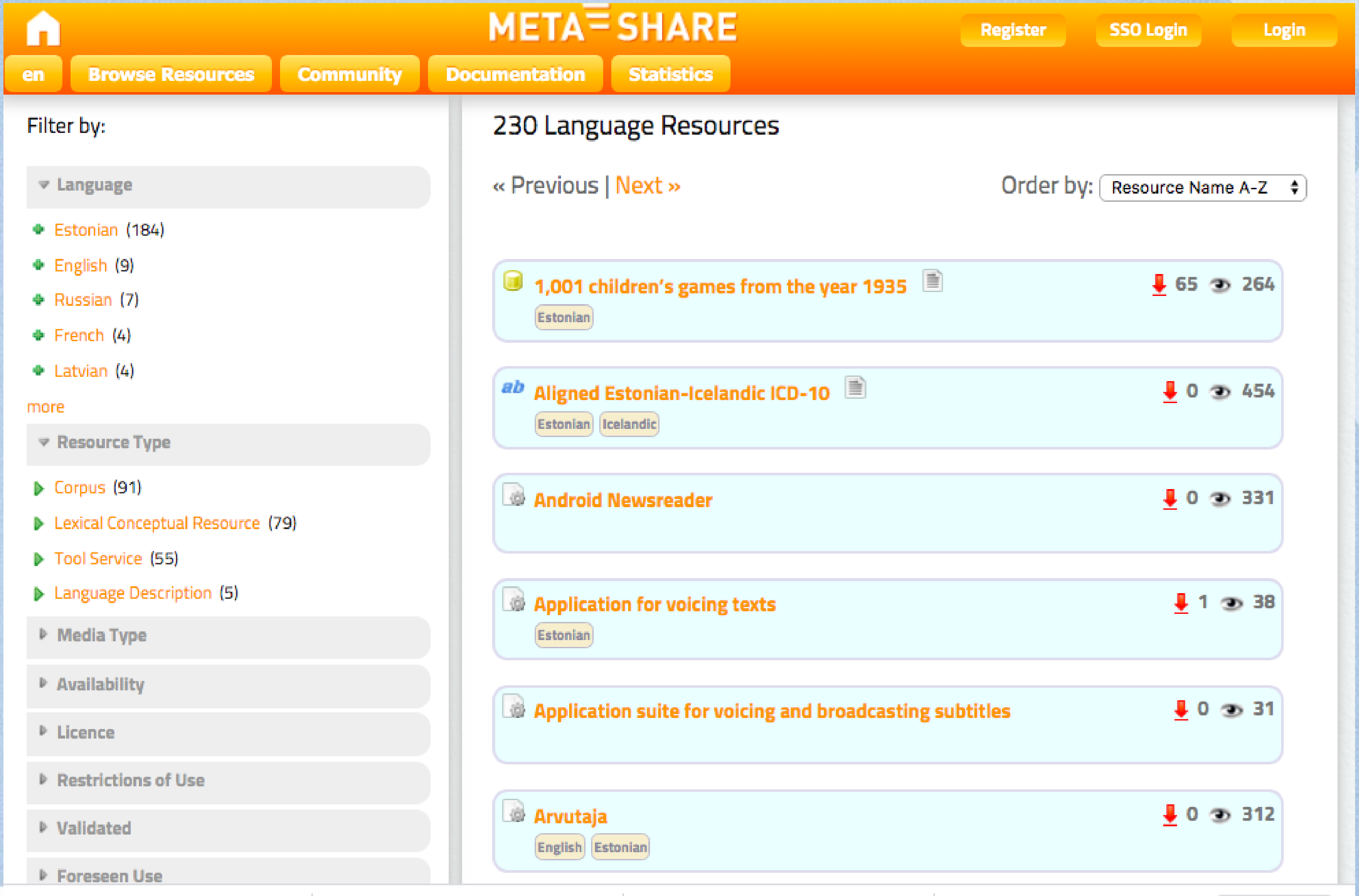
https://metashare.ut.ee

Registry for LR-s - META-SHARE



Filter by:

▾ Language

- Estonian (184)
- English (9)
- Russian (7)
- French (4)
- Latvian (4)

more

▾ Resource Type

- Corpus (91)
- Lexical Conceptual Resource (79)
- Tool Service (55)
- Language Description (5)

▸ Media Type

▸ Availability

▸ Licence

▸ Restrictions of Use

▸ Validated

▸ Foreseen Use

230 Language Resources

« Previous | Next »

Order by: Resource Name A-Z

Resource	Languages	Downloads	Views
1,001 children's games from the year 1935	Estonian	65	264
Aligned Estonian-Icelandic ICD-10	Estonian, Icelandic	0	454
Android Newsreader		0	331
Application for voicing texts	Estonian	1	38
Application suite for voicing and broadcasting subtitles		0	31
Arvutaja	English, Estonian	0	312

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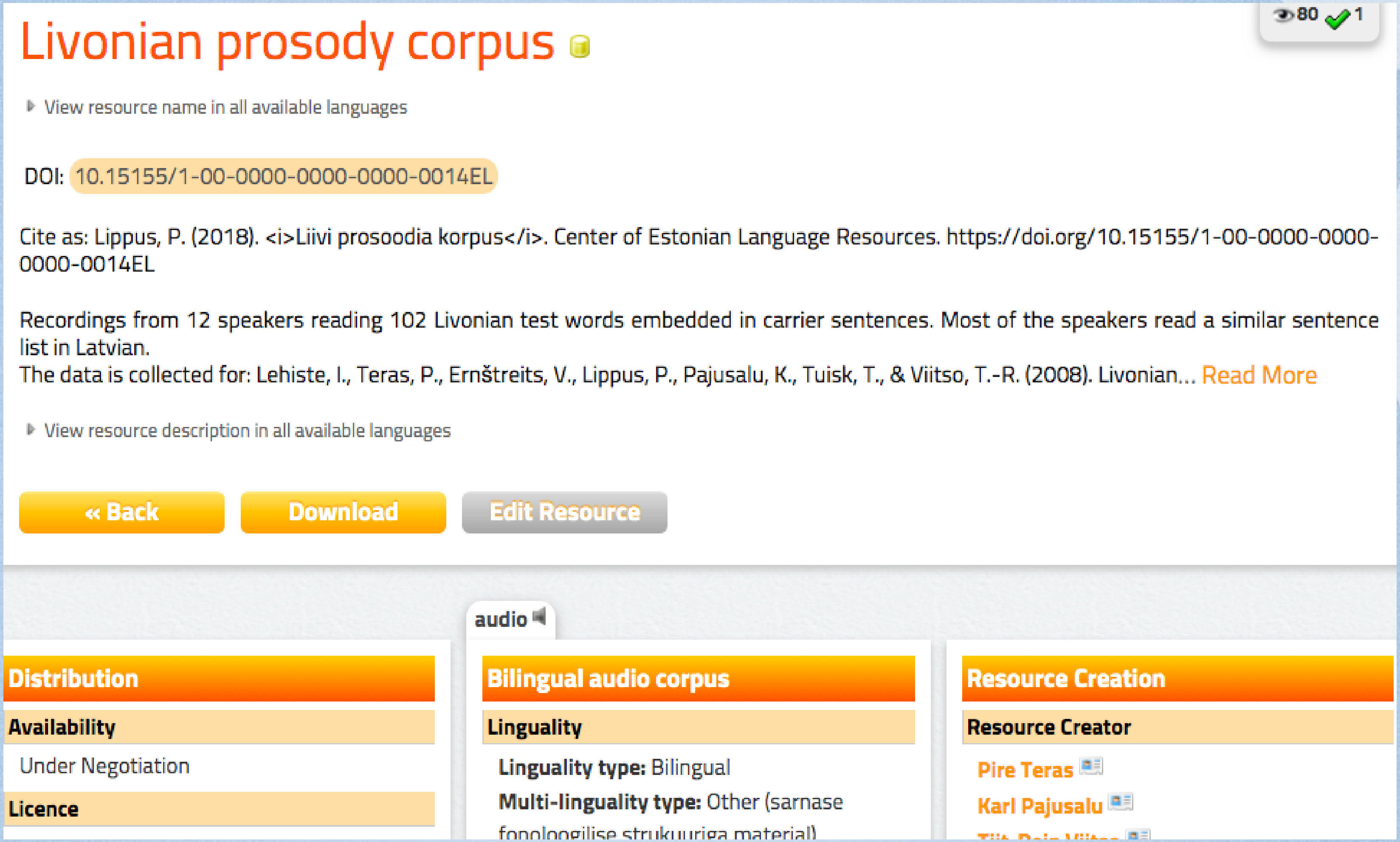
https://metashare.ut.ee

Registry for LR-s - META-SHARE



👁80 ✓1

Livonian prosody corpus

▸ View resource name in all available languages

DOI: 10.15155/1-00-0000-0000-0000-0014EL

Cite as: Lippus, P. (2018). <i>Liivi prosoodia korpus</i>. Center of Estonian Language Resources. https://doi.org/10.15155/1-00-0000-0000-0000-0014EL

Recordings from 12 speakers reading 102 Livonian test words embedded in carrier sentences. Most of the speakers read a similar sentence list in Latvian.
The data is collected for: Lehiste, I., Teras, P., Ernštreits, V., Lippus, P., Pajusalu, K., Tuisk, T., & Viitso, T.-R. (2008). Livonian... Read More

▸ View resource description in all available languages

Distribution

Availability

Under Negotiation

Licence

Bilingual audio corpus

Linguality

Linguality type: Bilingual

Multi-linguality type: Other (sarnase fonoloogilise strukuuriga material)

Resource Creation

Resource Creator

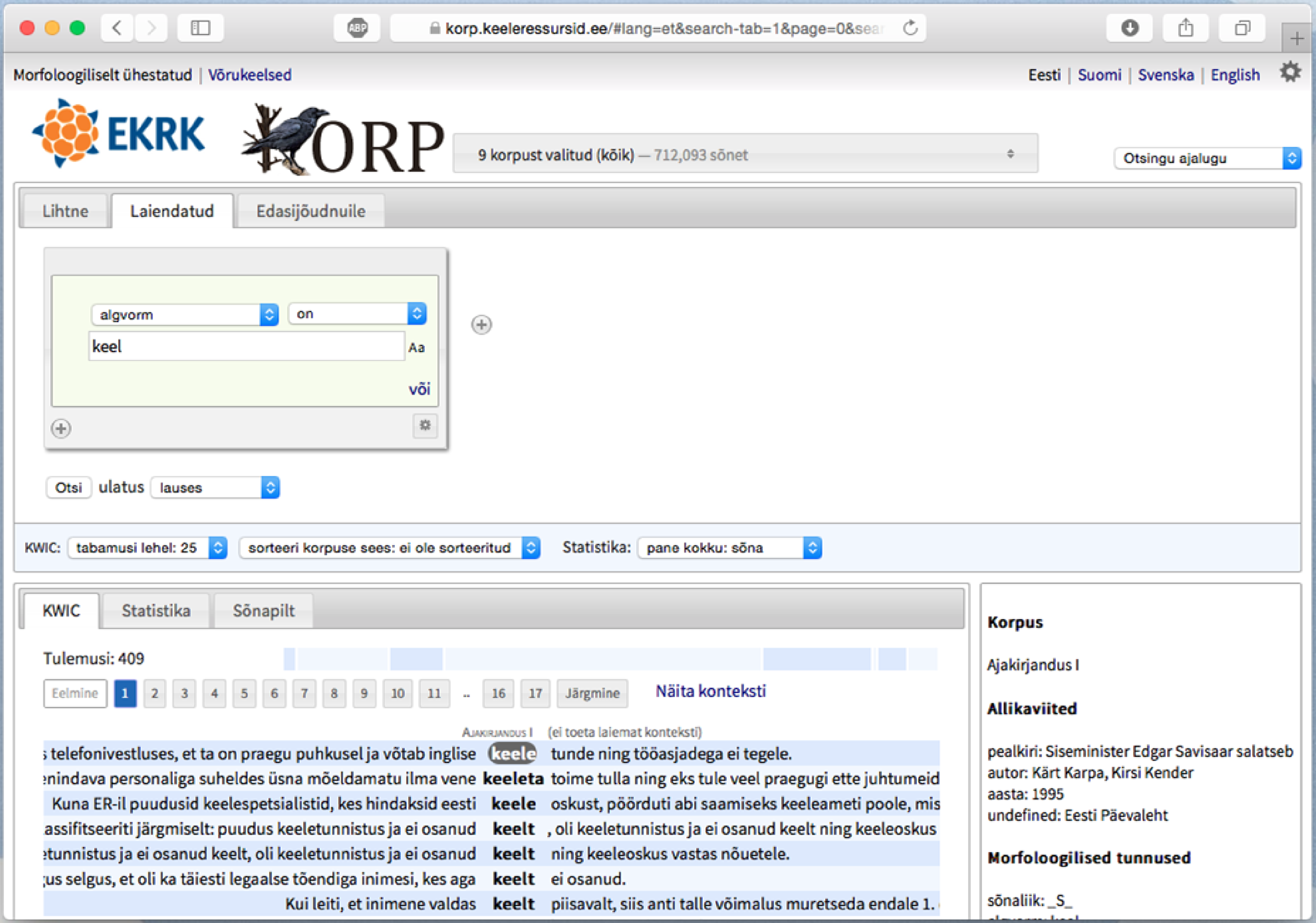
Pire Teras

Karl Pajusalu

Tiit-Rein Viitso

https://metashare.ut.ee

Corpus Query Service KORP



9 korpust valitud (kõik) — 712,093 sõnet

algvorm on keel

ulatus: lauses

KWIC: tabamusi lehel: 25 sorteeri korpuse sees: ei ole sorteeritud Statistika: pane kokku: sõna

Tulemusi: 409

AJAKIRJANDUS I (ei toeta laiemat konteksti)

; telefonivestluses, et ta on praegu puhkusel ja võtab inglise **keele** tunde ning tööasjadega ei tegele.
ɛnindava personaliga suheldes üsna mõeldamatu ilma vene **keeleta** toime tulla ning eks tule veel praegugi ette juhtumeid
Kuna ER-il puudusid keelespetsialistid, kes hindaksid eesti **keele** oskust, pöörduti abi saamiseks keeleameti poole, mis
assifitseeriti järgmiselt: puudus keeletunnistus ja ei osanud **keelt** , oli keeletunnistus ja ei osanud keelt ning keeleoskus
ɛtunnistus ja ei osanud keelt, oli keeletunnistus ja ei osanud **keelt** ning keeleoskus vastas nõuetele.
;us selgus, et oli ka täiesti legaalse tõendiga inimesi, kes aga **keelt** ei osanud.
Kui leiti, et inimene valdas **keelt** piisavalt, siis anti talle võimalus muretseda endale 1.

Korpus

Ajakirjandus I

Allikaviited

pealkiri: Siseminister Edgar Savisaar salatseb
autor: Kärt Karpa, Kirsi Kender
aasta: 1995
undefined: Eesti Päevaleht

Morfoloogilised tunnused

sõnaliik: _S_

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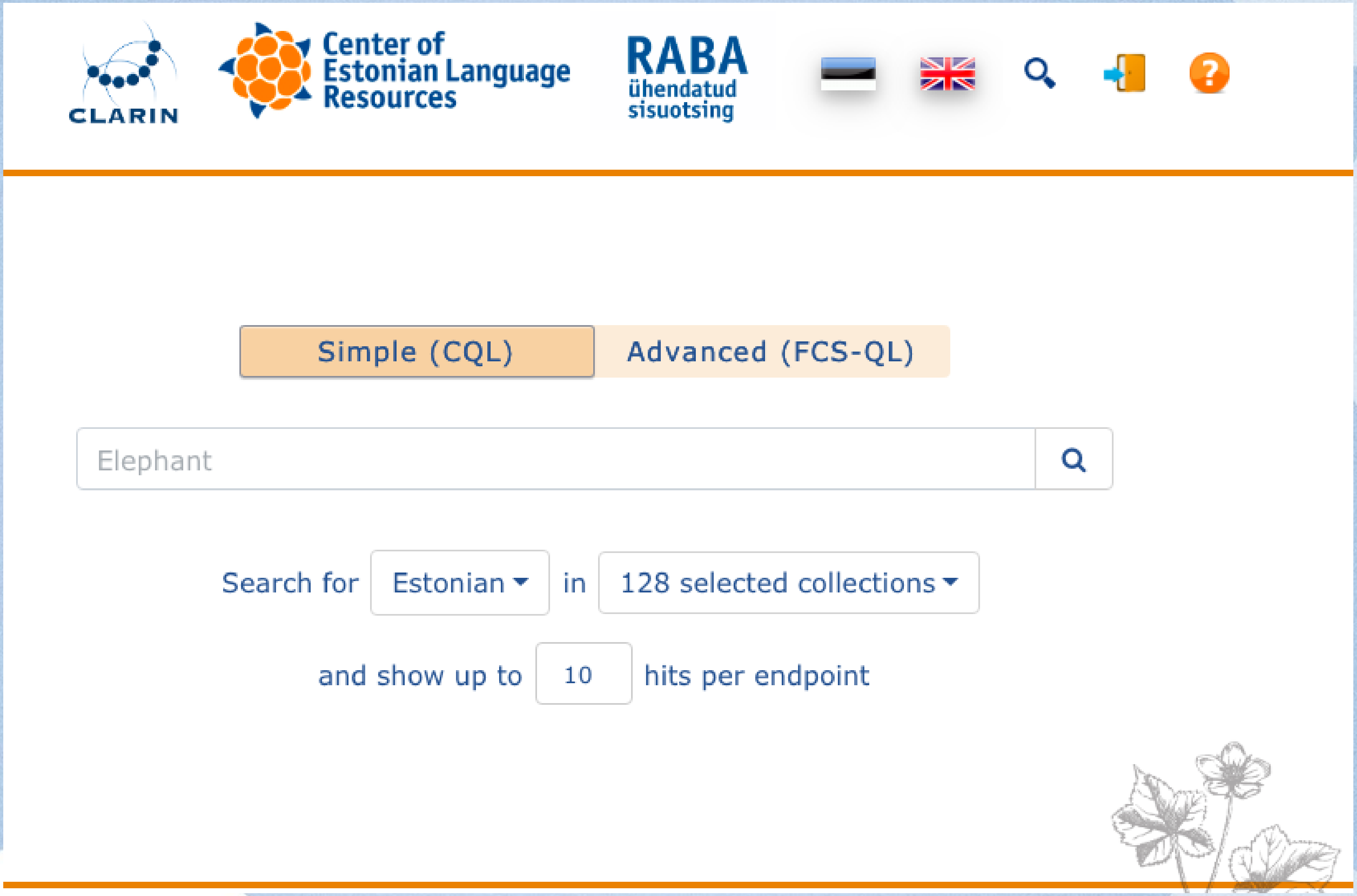
https://korp.keeleressursid.ee

Federated Content Search Raba



Elephant

Search for Estonian in 128 selected collections

and show up to 10 hits per endpoint

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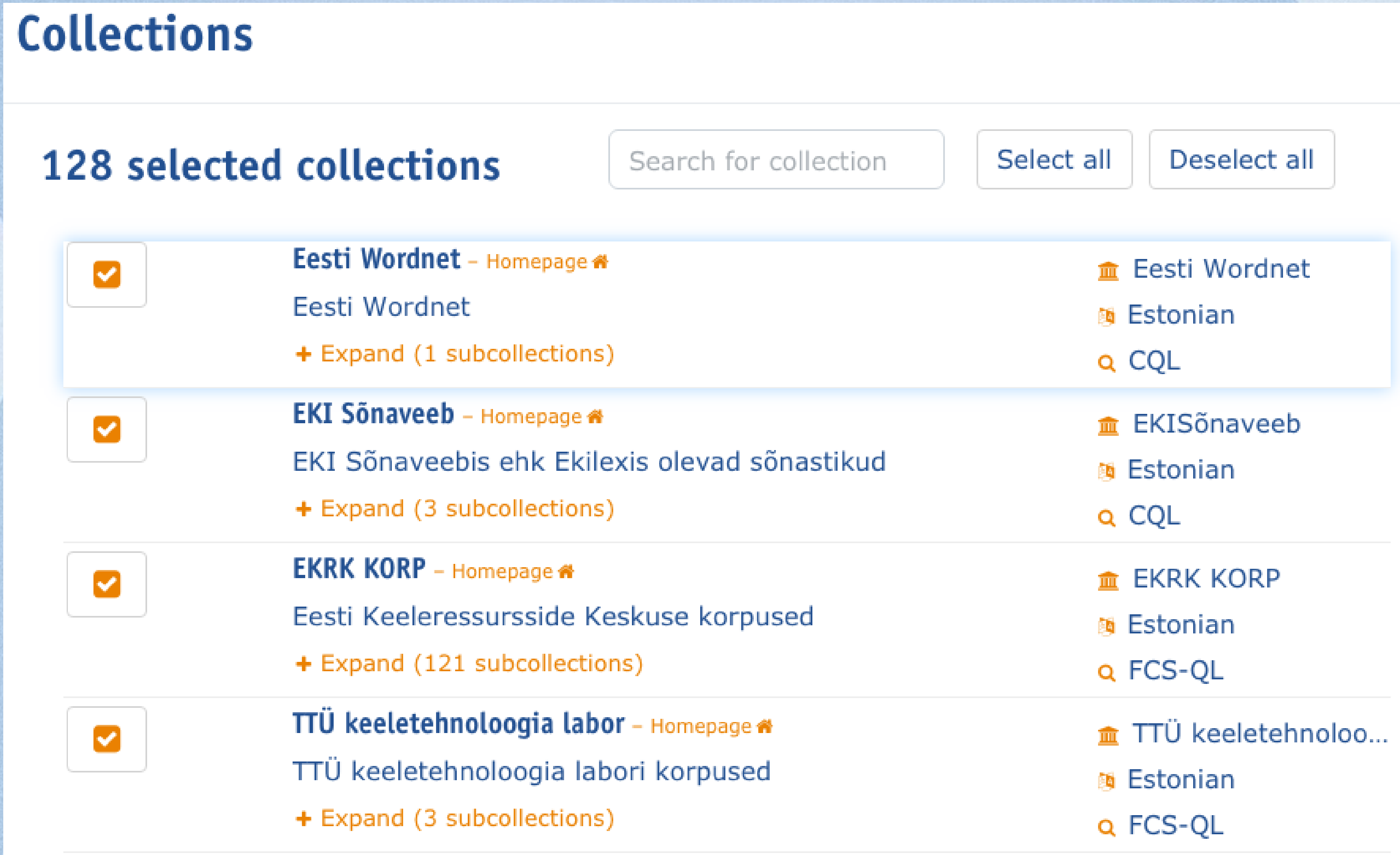
https://raba.keeleressursid.ee/

Federated Content Search Raba



Collections

128 selected collections

☑	**Eesti Wordnet** – Homepage Eesti Wordnet + Expand (1 subcollections)	Eesti Wordnet Estonian CQL
☑	**EKI Sõnaveeb** – Homepage EKI Sõnaveebis ehk Ekilexis olevad sõnastikud + Expand (3 subcollections)	EKISõnaveeb Estonian CQL
☑	**EKRK KORP** – Homepage Eesti Keeleressursside Keskuse korpused + Expand (121 subcollections)	EKRK KORP Estonian FCS-QL
☑	**TTÜ keeletehnoloogia labor** – Homepage TTÜ keeletehnoloogia labori korpused + Expand (3 subcollections)	TTÜ keeletehnoloo... Estonian FCS-QL

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https://raba.keeleressursid.ee/

Thank you!

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Lessons and risks of NPELT

- R&D projects within an open competition do not cover the full spectrum of goals to support Estonian language in technology
- Researchers are mostly interested in a result (prototype) rather than the stable application which can be integrated into software products
- Relation to IT business and production is weak
- NP does not deal explicitly with the education of new generation of language technologists
- Language data is often subject to copyright protection or sensitive personal data