

Roadmap of Large Infrastructures for Research, Experimental Development and Innovation of the Czech Republic

Social Sciences and Humanities

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The Czech Research Infrastructures Roadmap

- EU level: ESFRI 2002 → Roadmap in 2006
- CZ: 1st roadmap created in 2010, update 2011, 2016



What is a research infrastructure?

Research infrastructures (RIs) are facilities, resources and services used by the science community for **research & innovation.**

They include: major scientific **equipment**, collections, archives or **scientific data**, e-infrastructures such as data and **computing systems**, and communication networks.

RIs can be **single-sited** (a single resource at a single location), **distributed** (a network of distributed resources), or **virtual** (the service is provided electronically).

...often in the form of “**ERIC**”:
European Research Infrastructure Consortium



Research Infrastructures in the Czech Republic

- Uniqueness
- Nation-wide impact
- International overlap (membership in ERICs)
- Open access to facilities
- Excellence
- Location:
 - Entirely in the Czech Republic
 - with international impact, national node of EU RI
 - Access point to RI located internationally
 - Located abroad (partly owned/operated by the CR)

Research Areas

- Physical Sciences (CERN, ELI Beamlines)
- Energy (COMPASS, LVR)
- Environmental Sciences (SoWa)
- Biomedical Sciences (Elixir-CZ)
- Social Sciences and Humanities
- ICT/e-infrastructures (CESNET)

Research Infrastructures in Social Sciences and Humanities in the CR

- AIS CZ (Archaeology)
- Czech Literary Bibliography (Literature)
- Czech National Corpus (Language)
- LINDAT/CLARIN (Language Technology)
- RIDIOS (Diarhronic Studies)
- Joint CLARIN and DARIAH
- CSDA (Social Sciences Data Archive)
- ESS-CZ (European Social Survey)
- SHARE-CZ (Survey – Health & Aging)

2020-2022

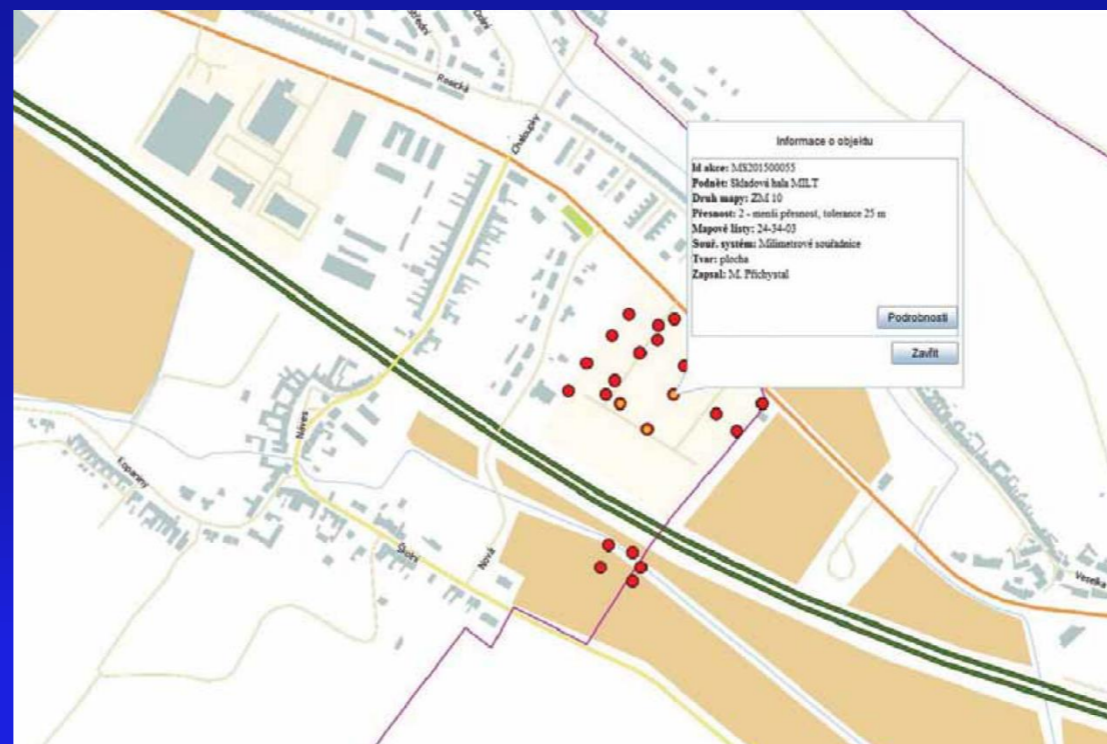
Archaeology: AIS CR

- Institutes of Archaeology, Academy of Sciences of the Czech Republic, Prague & Brno

“AIS CR will provide comprehensive, interlinked and easily accessible information concerning archaeological excavations, digital archive, access to maps with excavation visualisations and tutorials.”

<http://www.idav.cz>

<http://www.arub.smartgis.cz>



Czech Literary Bibliography

- Institute of Czech Literature, Academy of Sciences of the Czech Republic

“CLB sources are a primary source for studying literary and more broadly cultural life in the Czech lands in all its historical and linguistic varieties.”

<https://clb.ucl.cas.cz/en>



Czech National Corpus: CNC

- Faculty of Arts, Charles University, Prague

“CNC is continuously mapping the Czech language by building large general-purpose language corpora and providing access to them ... including written, spoken and diachronic Czech [as well as] translations.”

<https://korpus.cz/>

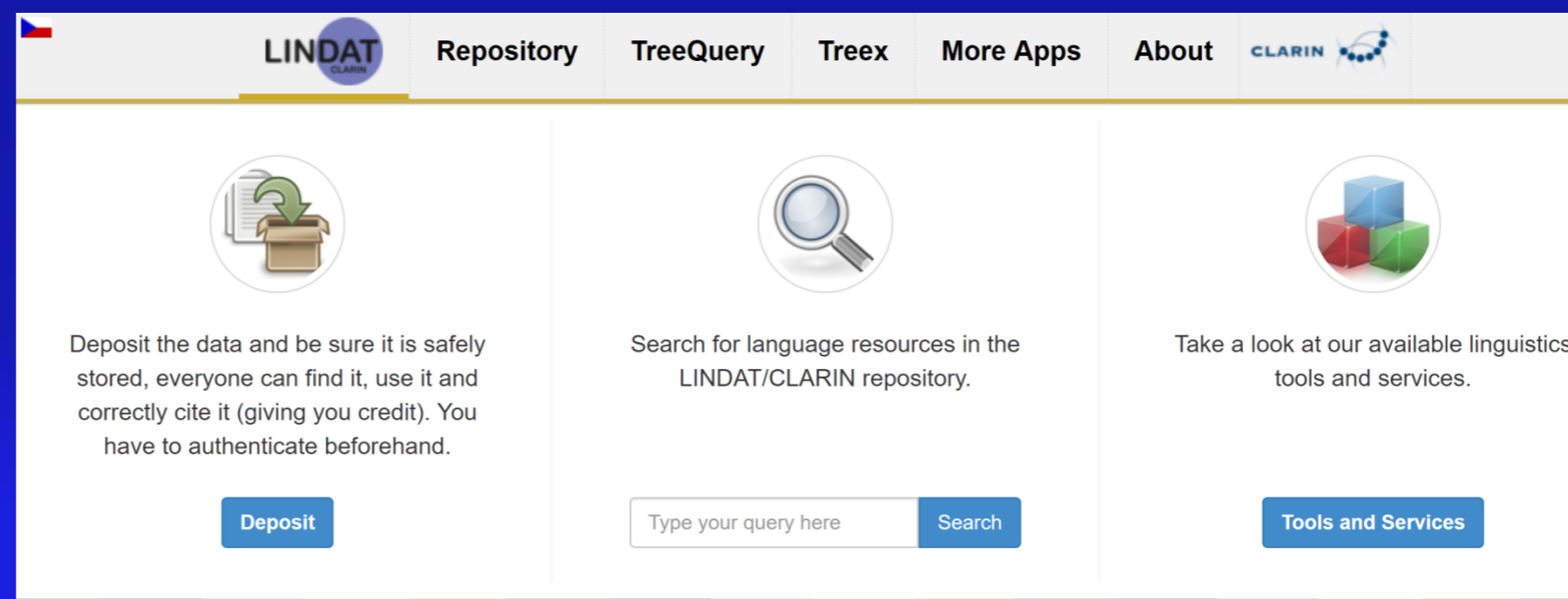


LINDAT/CLARIN (2010-2019)

- Faculty of Mathematics and Physics, Charles Univ.
- Institute of Czech Language, Czech AS
- Faculty of Informatics, Masaryk University, Brno
- Faculty of Applied Sciences, Univ. of West Bohemia, Pilsen

“LINDAT/CLARIN is a Czech national node of CLARIN, Common Language Resources and Technology Infrastructure. The aim of LINDAT/CLARIN is to provide **open and free access** to language research data through a certified repository and language **technology and services** to be used in social sciences and humanities.”

<https://lindat.cz/>



Upcoming: LINDAT/CLARIAH-CZ (2019-2022)

- 11 institutions: universities, academic institutes, national cultural institutions
 - Led by Charles University, Prague
- Combines DARIAH-CZ and LINDAT/CLARIN
- Czech Republic will be member of two ERICs:
 - CLARIN ERIC (Utrecht, Netherlands)
 - DARIAH ERIC (Paris, France)

LINDAT/CLARIAH-CZ (2019-2022)

- Data repositories, software tools and services in:
 - Linguistics and computational linguistics
 - History, historical bibliography
 - Study of culture
 - History of art
 - Philosophy
 - Film and film history including new audiovisual media
 - Visual arts
 - Musicology and history of music
 - Ethnology
 - Archaeology/Egyptology
 - ... and interdisciplinary areas of the above

Integration SSH RIs into the European Research Area

- Czech Republic is a member of
 - CESSDA ERIC (CSDA)
 - CLARIN ERIC (LINDAT/CLARIN, CNC)
 - ESS (ESS CZ)
 - SHARE (SHARE CZ)
- Cooperation with
 - EHRI (to become ERIC)
 - Europeana
- Soon to become member of DARIAH ERIC

Thank you!

- <http://www.msmt.cz/vyzkum-a-vyvoj-2/cestovni-mapa-cr-velkych-infrastruktur-pro-vyzkum>
- <https://ec.europa.eu/research/infrastructures/?pg=about>
- <https://ec.europa.eu/research/infrastructures/index.cfm?pg=esfri-national-roadmaps>