

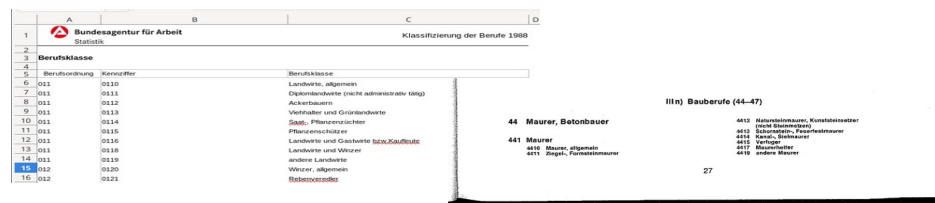
Integration of Historical Labor Market Data to GLMO

Research Question: How can we extend the German Labor Market Ontology (GLMO) with historical data, e.g. older versions of occupations and education?

Background: The German Labor Market Ontology (GLMO) provides many terms of German labor market research. However, it is currently limited to the most recent version of the KldB and will be extended to include historical versions of the KldB (1992, 1988, 1975, 1970) and documents from the German Democratic Republic (DDR).

Data: *German texts!*

- German Labor Market Ontology (GLMO)
- KldB (1992, 1988, 1975, 1970), some digitalized



Berufsklasse	Berufskennung	Berufsklasse
6	011	Landwirt, allgemein
7	011	Diplom-Ingenieur (nicht administrativ tätig)
8	011	Ackerbauern
9	011	Viehhalter und Gärtnere
10	011	Stell-, Pflanzenzüchter
11	011	Pflanzenschutz
12	011	Landwirt und Gärtner (sonstige)
13	011	Landwirt und Winzer
14	011	andere Landwirte
15	011	Winzer, allgemein
16	011	Rebenzüchter

- GDR documents

Literature:  J. Dörpinghaus, J. Binnewitt, S. Winnige, K. Hein, K. Krüger. Towards a German Labor Market Ontology: Challenges and Applications. *Applied Ontology*, vol. 18, no. 4, pp. 343-365, 2023.
- K. Kostadinovska, J. Dörpinghaus. Educational pathways in a German labor market knowledge graph. *INFORMATIK 2024*. DOI: 10.18420/inf2024_176. Bonn: Gesellschaft für Informatik e.V.. PISSN: 1617-5468. ISBN: 978-3-88579-746-3. pp. 2031-2033. Digitalization and AI for and in Education and Educational Research (DAI-EaR'24). Wiesbaden. 24.-26. September 2024

Requirements: Coding (Python); Databases (SQL); Knowledge of the German Labor Market

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