



# Ontology of Occupations

Ontology Engineering based on Articles from  
Early Modern Encyclopedias and Modern  
Classification Schemes

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# Introduction

“Hufschmied”

1 record			
Number	Name	Description (tasks and duties) Micro Groups	Display Titles
83110	<u>Blacksmith, General</u>	Forges and repairs articles of iron and steel, such as hand tools, hooks, chains, agricultural implements and metal structural parts, using hand or power hammers.	<u>Display Titles</u>



Medical Treatment of Horses

# Introduction

“Bader”

1 record			
Number	Name	Description (tasks and duties)	Micro Groups
57070	<b><u>Bath Attendant</u></b>	Attends to clients taking baths and may administer elementary massage.	<b><u>Display Titles</u></b>

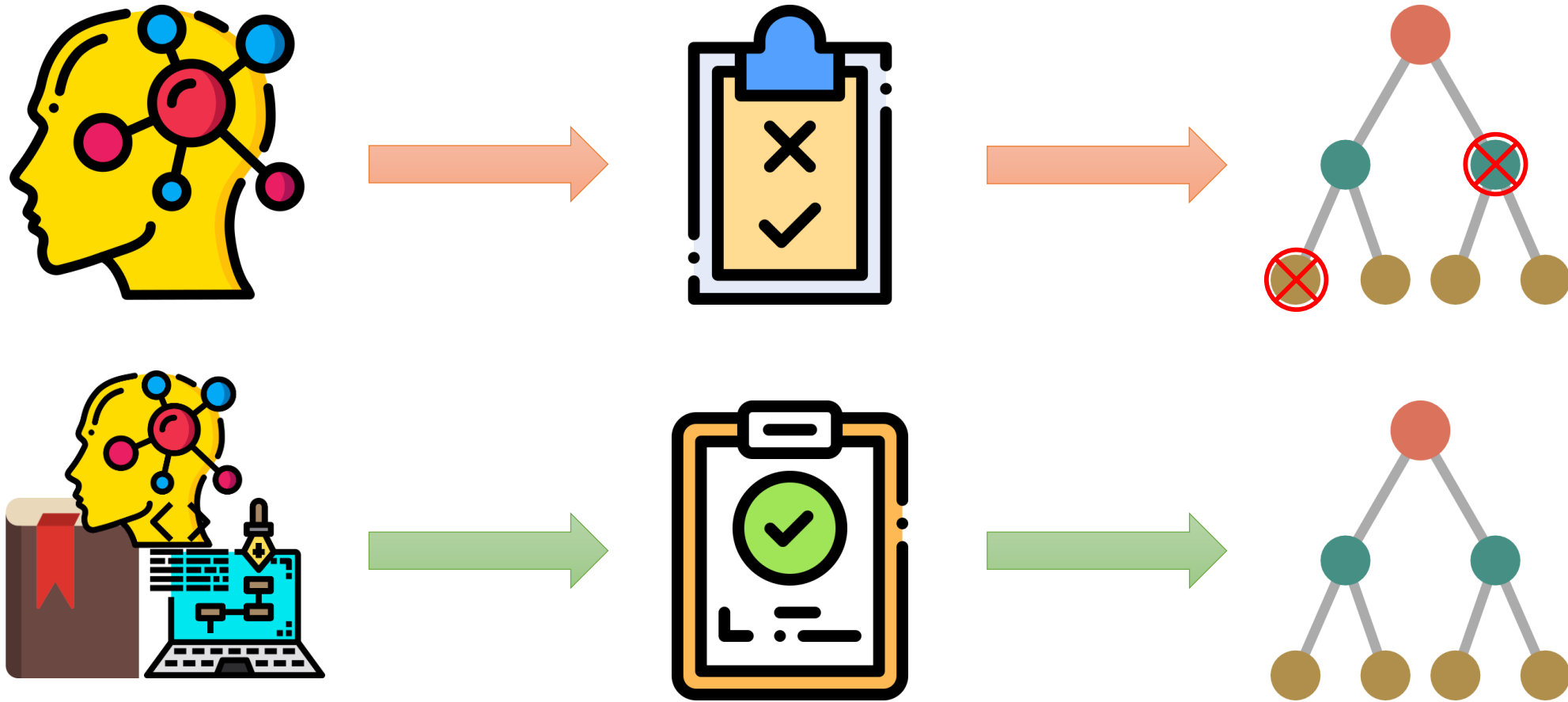
1 record



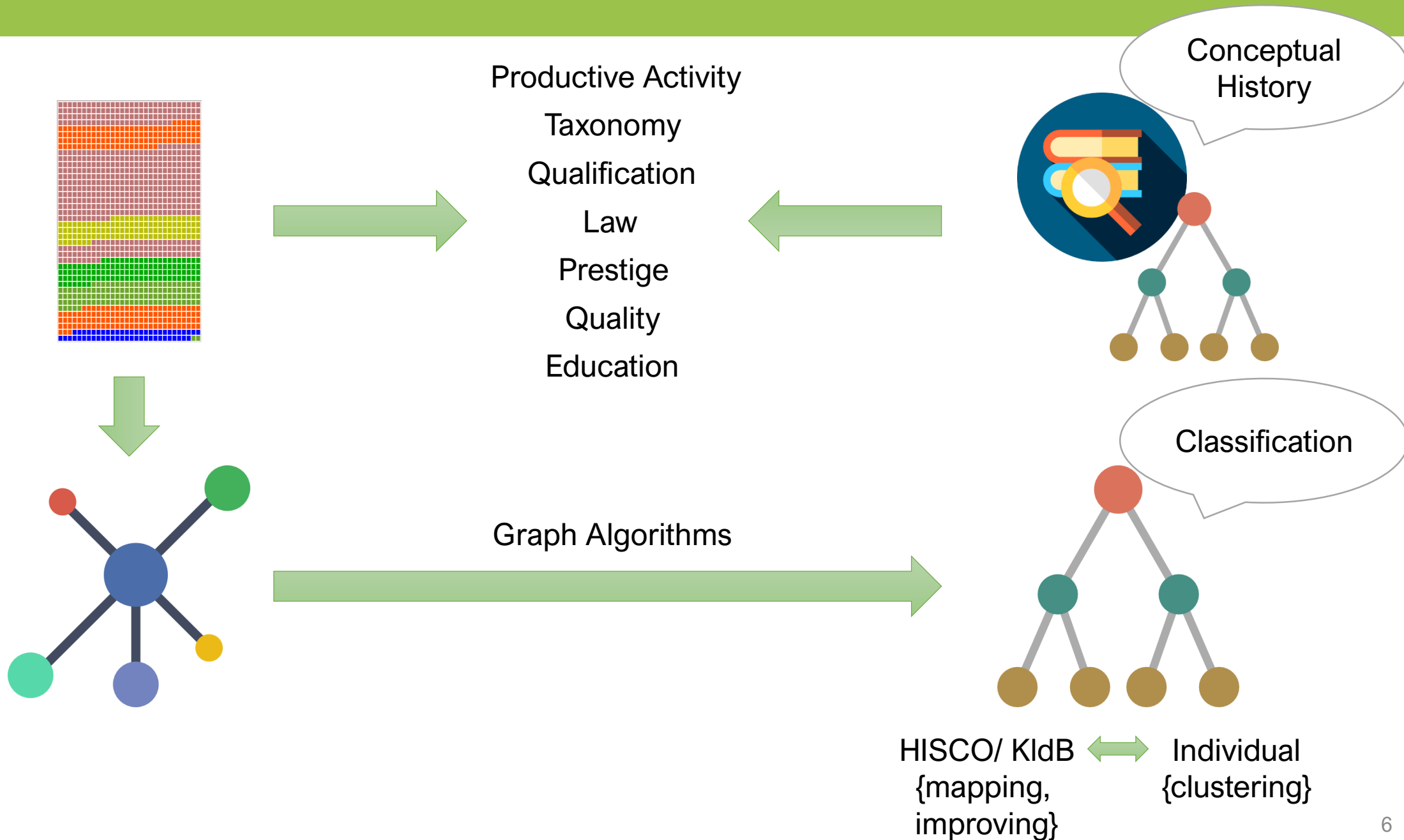
- Medical Treatment
- Surgery
- Bloodletting
- Cupping
- Hair and Beard Trimming

*...Prestige, Law, Education, Qualification...*

# Introduction



# Introduction



## Workflow - Sources



Weigels “Illustration of the main estates” (1698): 213 occupational titles



HISCO (2002): ca. 150 Micro Groups



Zedlers “Universal Lexicon” (1731-1754): 201 occupational articles



KIdB 2010: ca. 150 occupational groups

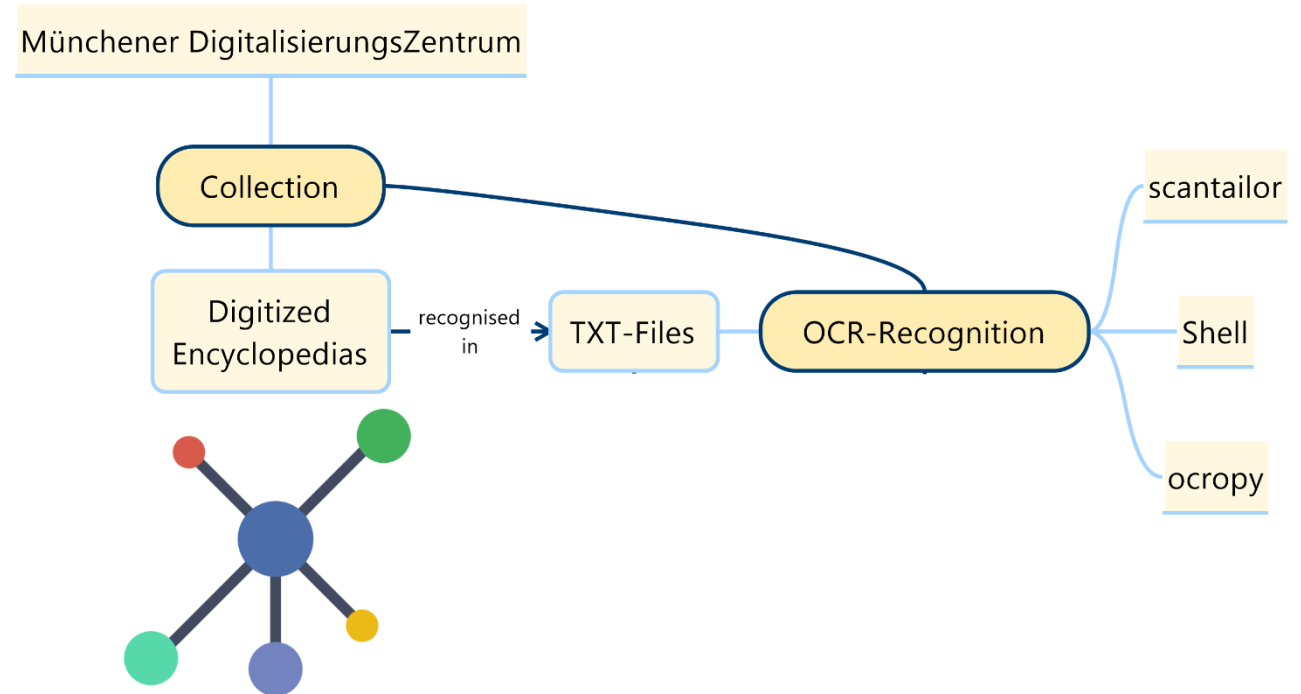


# Workflow - Sources





# Workflow – Qualitative Content Analyses and Recording



# Workflow – Qualitative Content Analyses and Recording

A goldsmith is a metalworker who specializes in working with gold and other precious metals.

Historically, goldsmiths also have made silverware, platters, goblets, decorative and serviceable utensils, ceremonial or religious items, and rarely using Kintsugi, but the rising prices of precious metals have curtailed the making of such items to a large degree.

Goldsmiths must be skilled in forming metal through filing, soldering, sawing, forging, casting, and polishing metal.

The trade has very often included jewellery-making skills, as well as the very similar skills of the silversmith.

Goldsmith, Silversmith

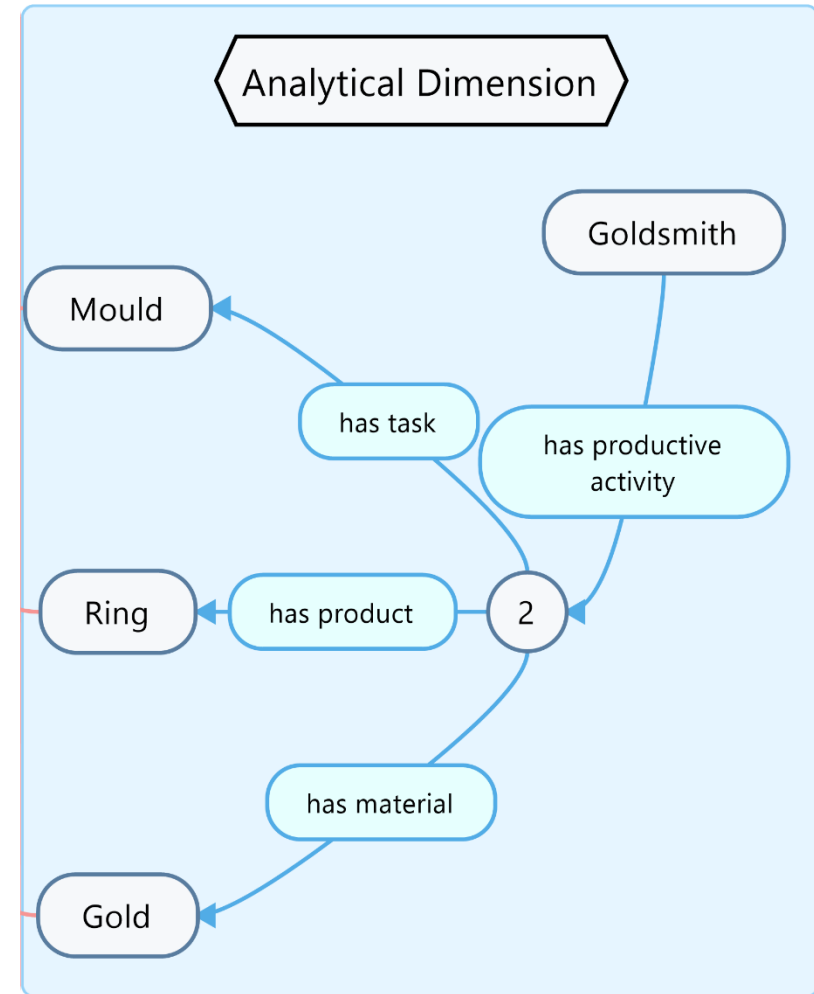
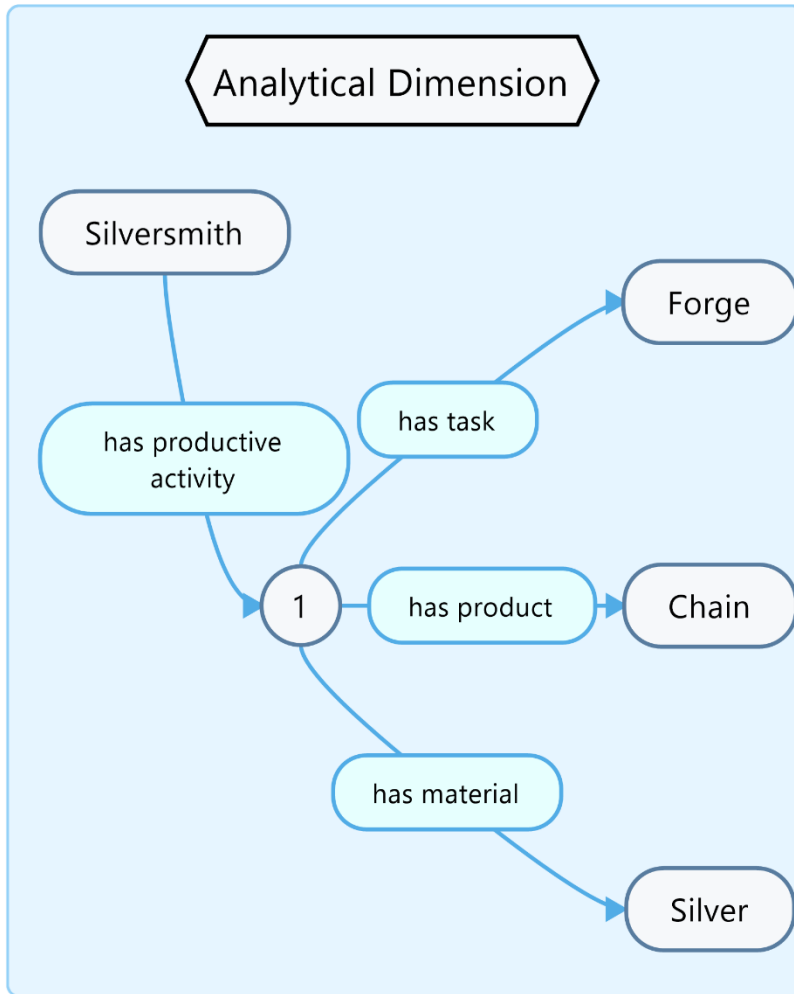
At least in Europe, goldsmiths increasingly performed many of the functions now regarded as part of banking, especially providing custody of valuable items and currency exchange, though they were usually restrained from lending at interest, which was regarded as usury.

Goldsmiths often acted as bankers, since they dealt in gold and had sufficient security for the safe storage of valuable items.

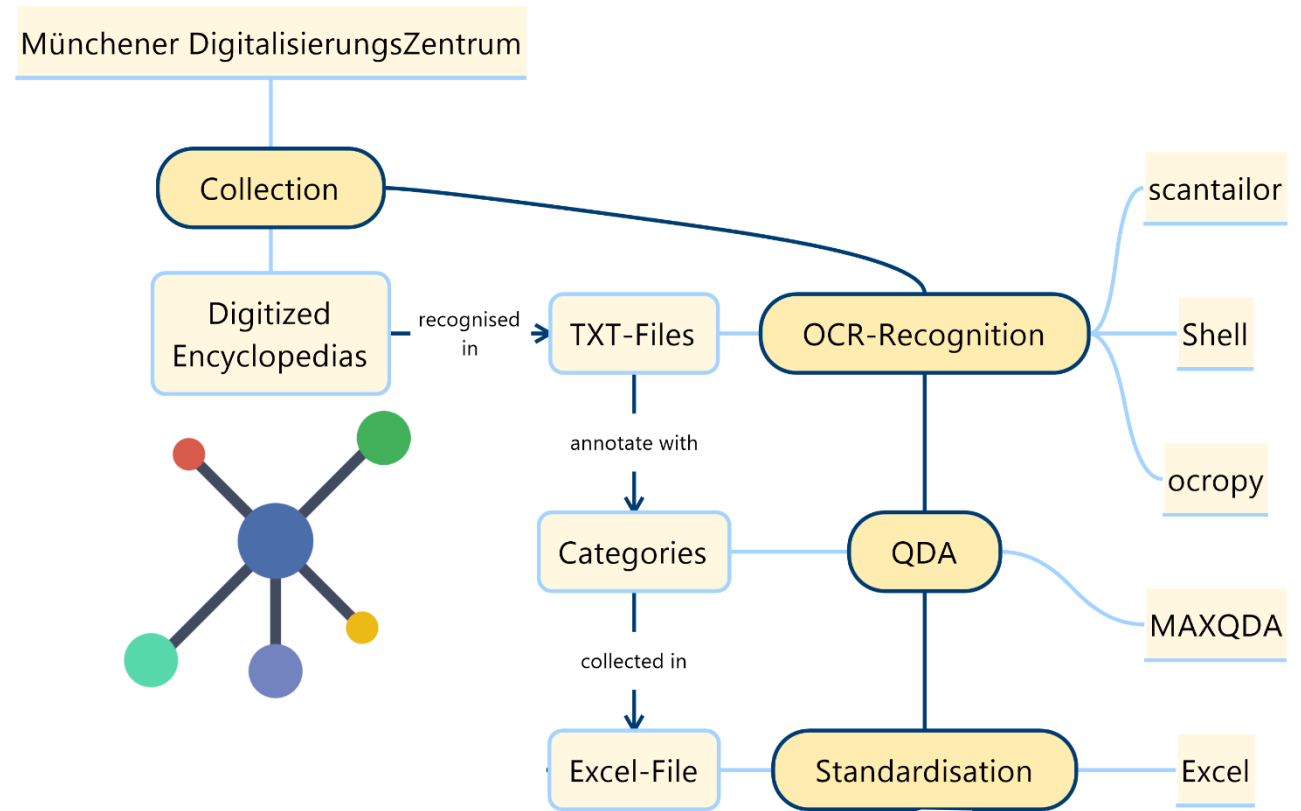
In the Middle Ages, goldsmithing normally included silversmithing as well, but the brass workers and workers in other base metals normally were members of a separate guild, since the trades were not allowed to overlap.

The printmaking technique of engraving developed among goldsmiths in Germany around 1430, who had long used the technique on their metal pieces.

TaskID	ArticleID	Page	OccuTitle	OccuID	TrueOrWrong	Modus	Condition	Time	Note	MainCategory
1	214	50	Goldsmith	22	true	source	none	temp	None	pa
CatPredicate	Predicate	CatMainObject	MainObject	Prepo1	CatObject1	Object1	Prepo2	CatObject2	Object2	
task	make	product	ware& platter& goblet& decoration& serviceable utensils& ceremonial item& religious item	from	material	gold& precious metal& silver	with	equipment	hammer& ambos& rolling mill& drawplate	

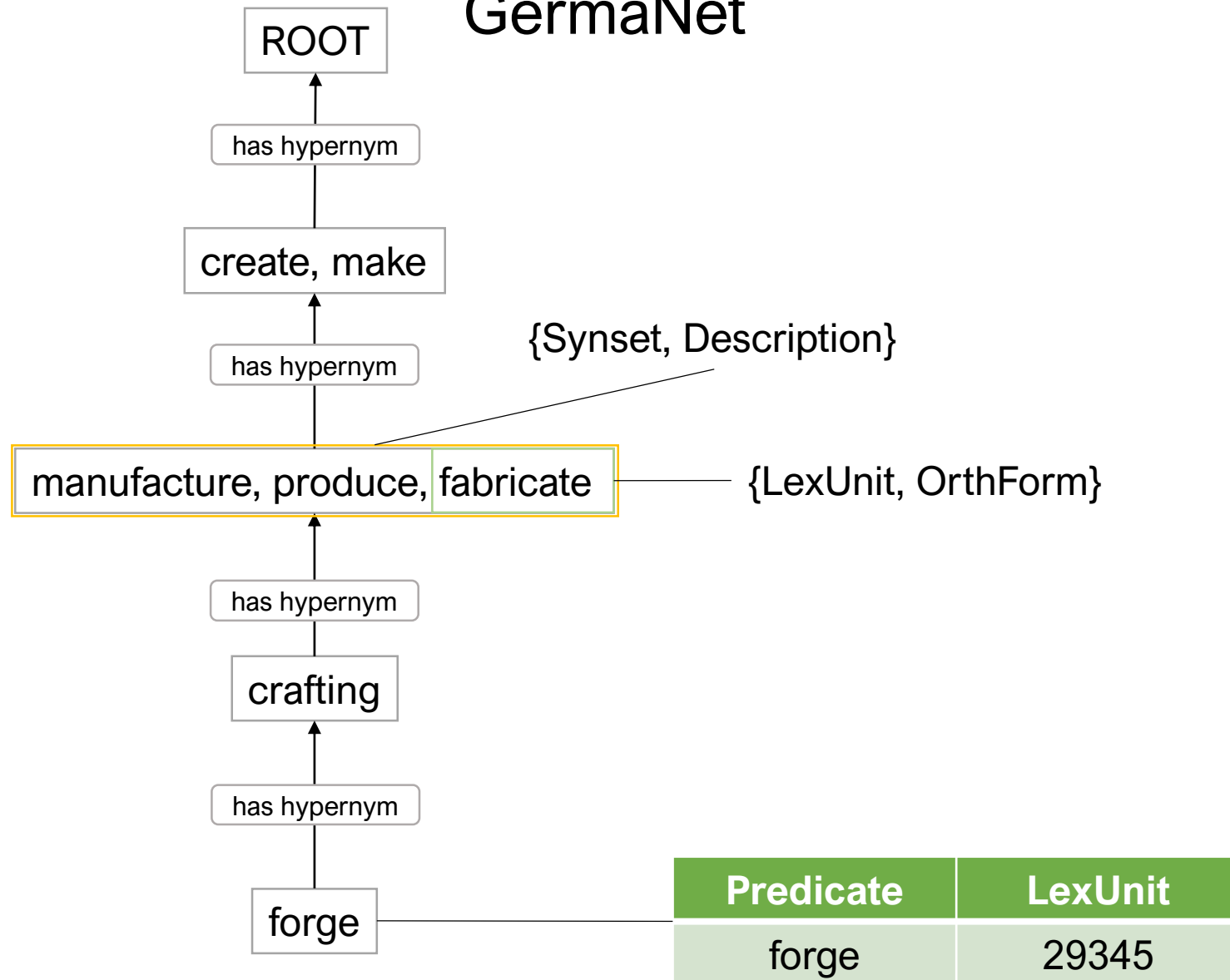


# Workflow – Word Identification and Semantic Net

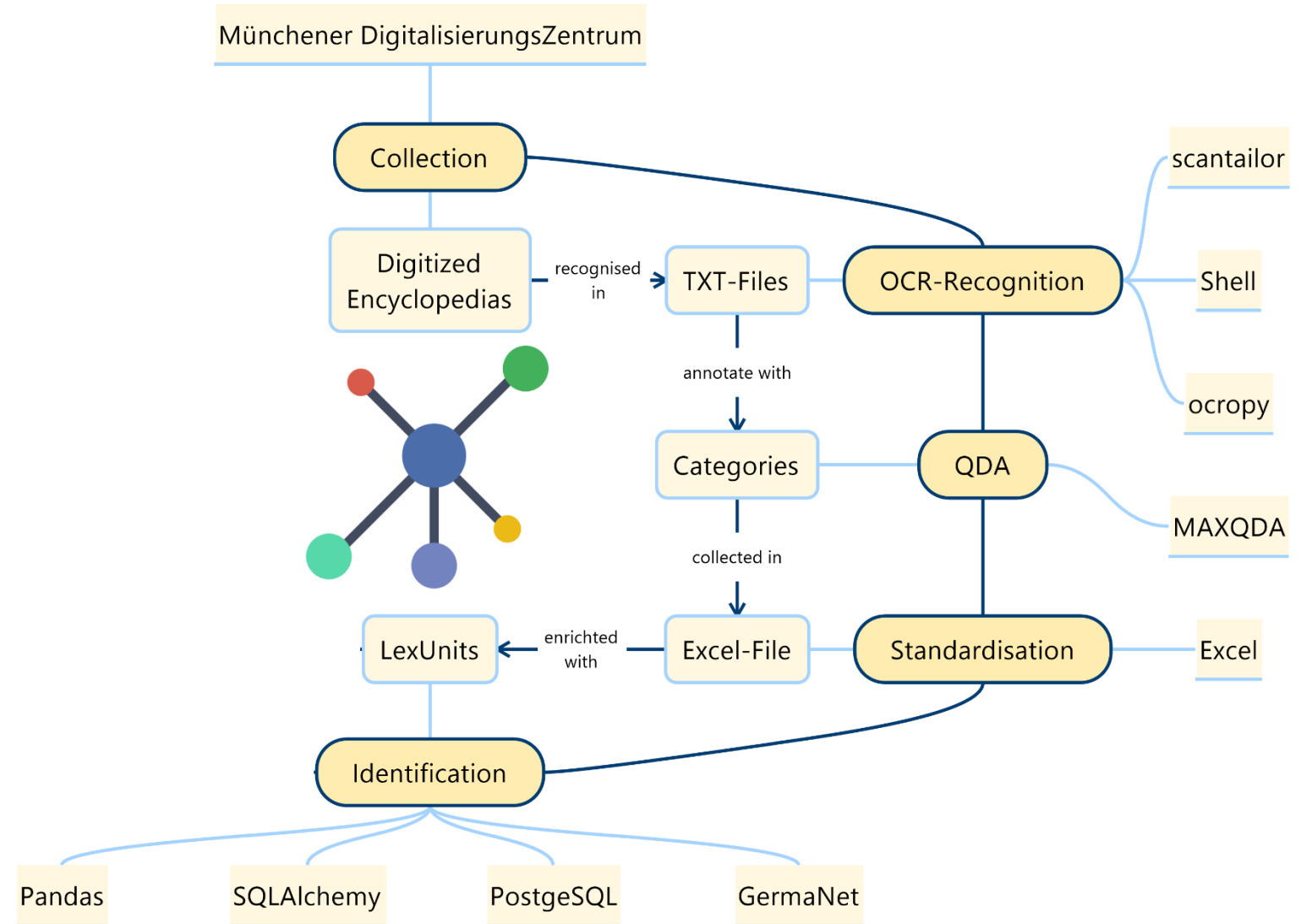


# Workflow – Word Identification and Semantic Net

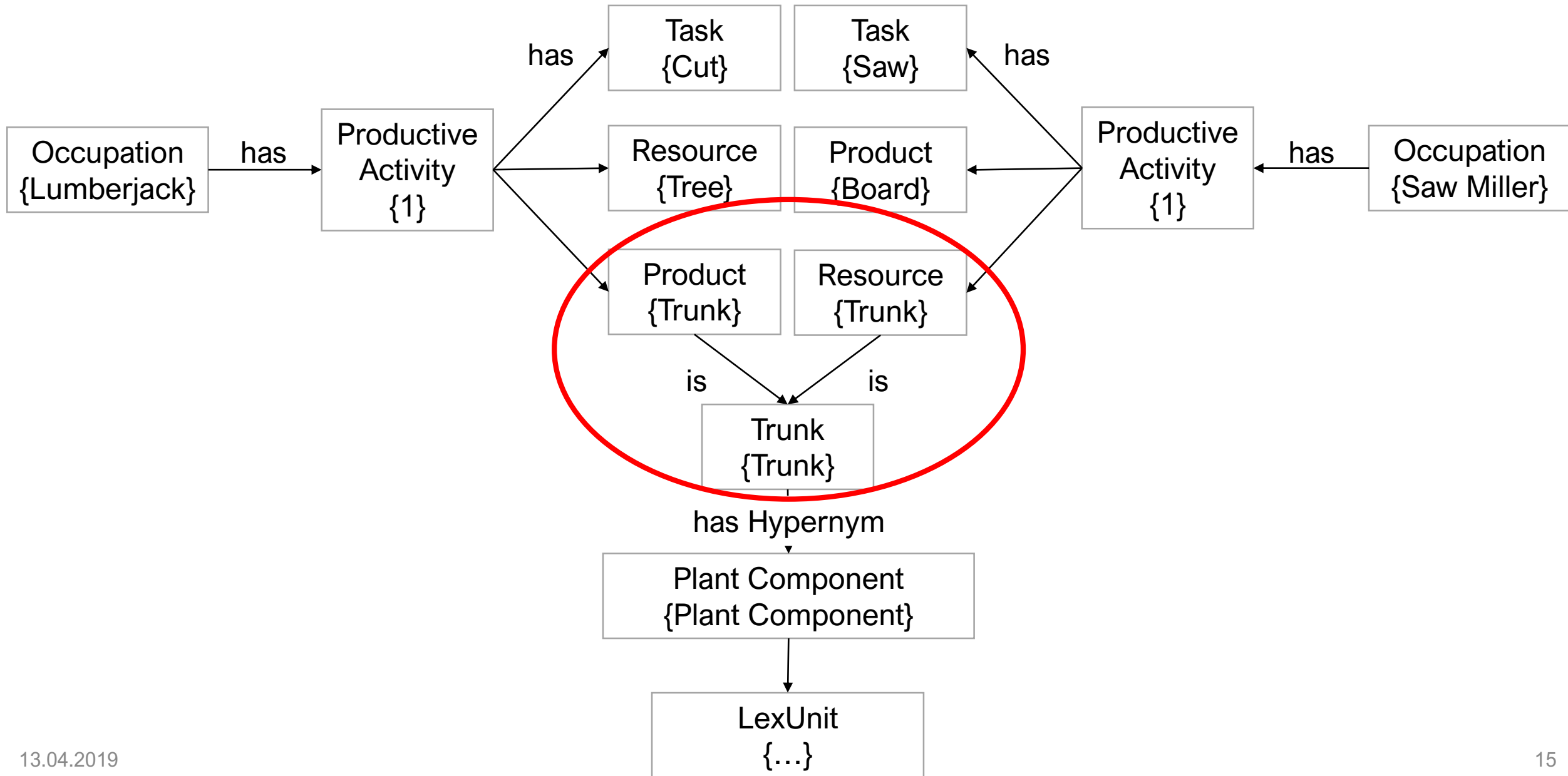
## GermaNet



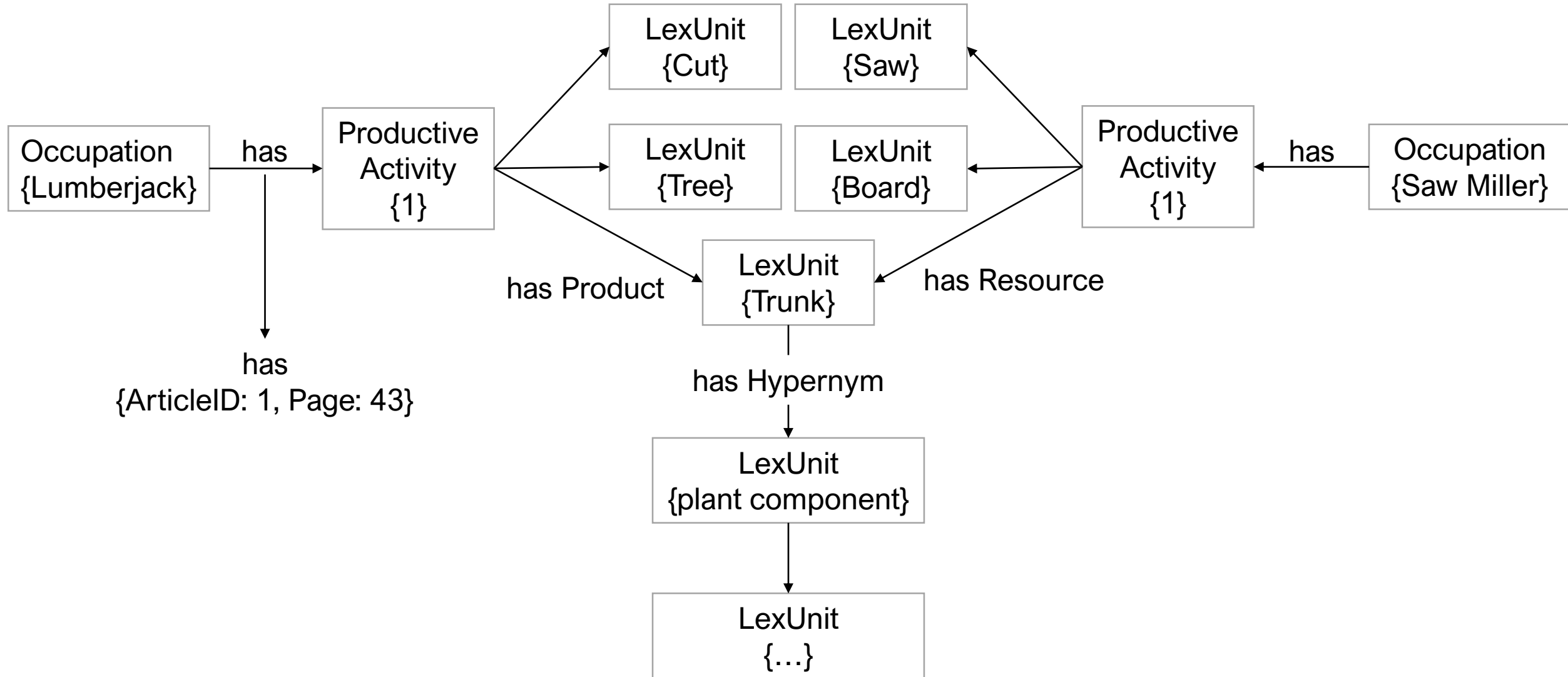
# Workflow – Graph Implementation



# Workflow – Graph Implementation



# Workflow – Graph Implementation





# Conclusion

- Using :
  - an ontology to classify occupations
  - qualitative content analyses to structure the data
  - GermaNet to identify and gather the taxonomical dimension
  - relationships rather than entities to solve ambiguity
  - labelled property graph to avoid reification

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