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# Colibri Initiatives: coli-ana & coli-conc

25. April 2023  
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# Colibri

A VZG Project  
Initiated by Dr.  
Ulrike Reiner in  
2003

## Context Generator & Linguistic Tools for Bibliographic Retrieval Interface



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# Colibri Research Questions

Is it possible to...

VZG Member of  
the DDC  
Consortium in  
2000

**Q1.** ...classify automatically bibliographic title records using DDC?

**Q2.** ...analyse automatically molecular DDC notations  
into atomic DDC notations?

**Q3.** ...improve automatic classification & retrieval  
by means of atomic DDC notations?

**atomic DDC notation:** a semantically indecomposable notation that represents a DDC class

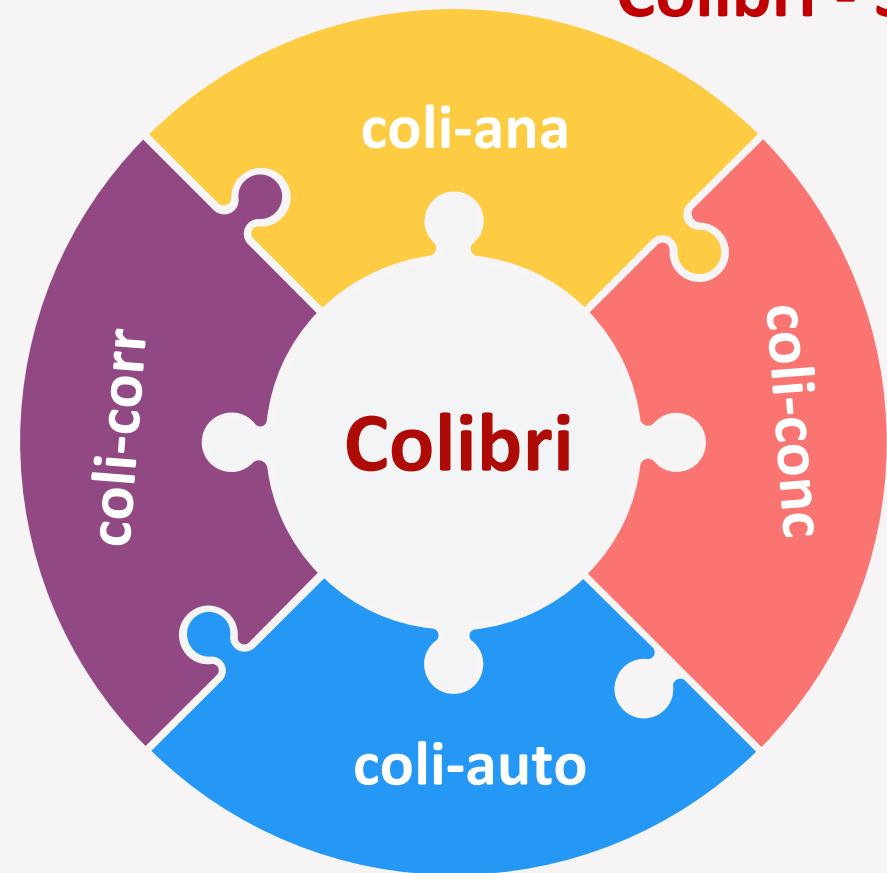
**molecular DDC notation:** a notation that is syntactically decomposable into atomic DDC notations

**DDC notation:** dno

# Colibri - Subprojects



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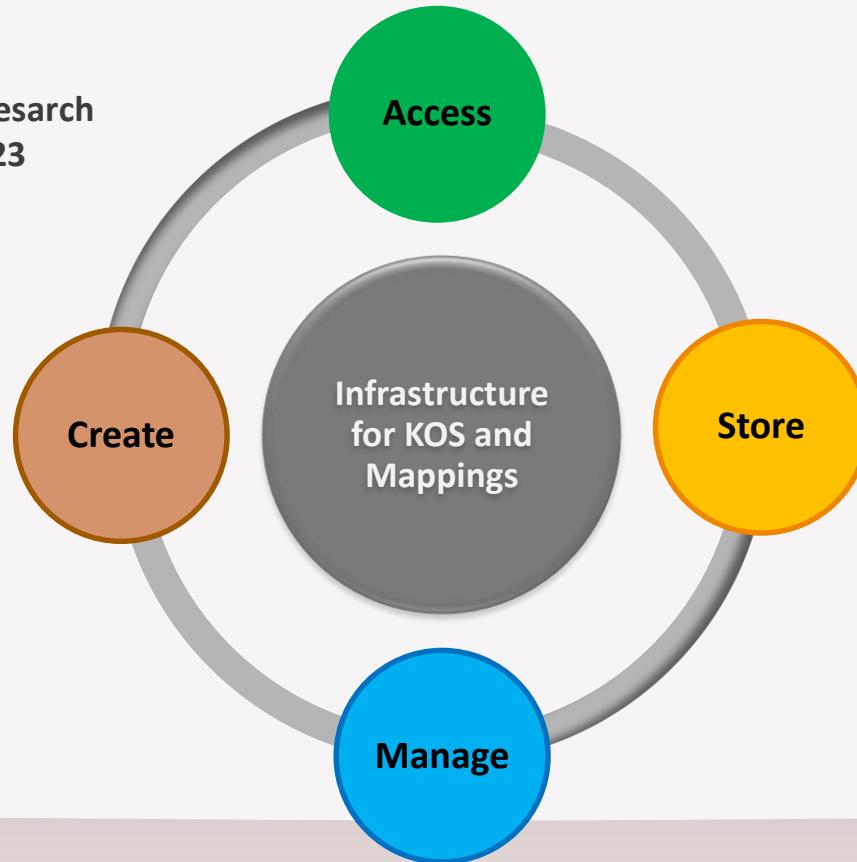


- coli-ana: automatic analysis
- coli-conc: concordances
- coli-corr: correctness
- coli-auto: automatic classification

Template by [HiSlide.io](#)

# Subproject coli-conc

Funded by the German Research Foundation 2015-2023

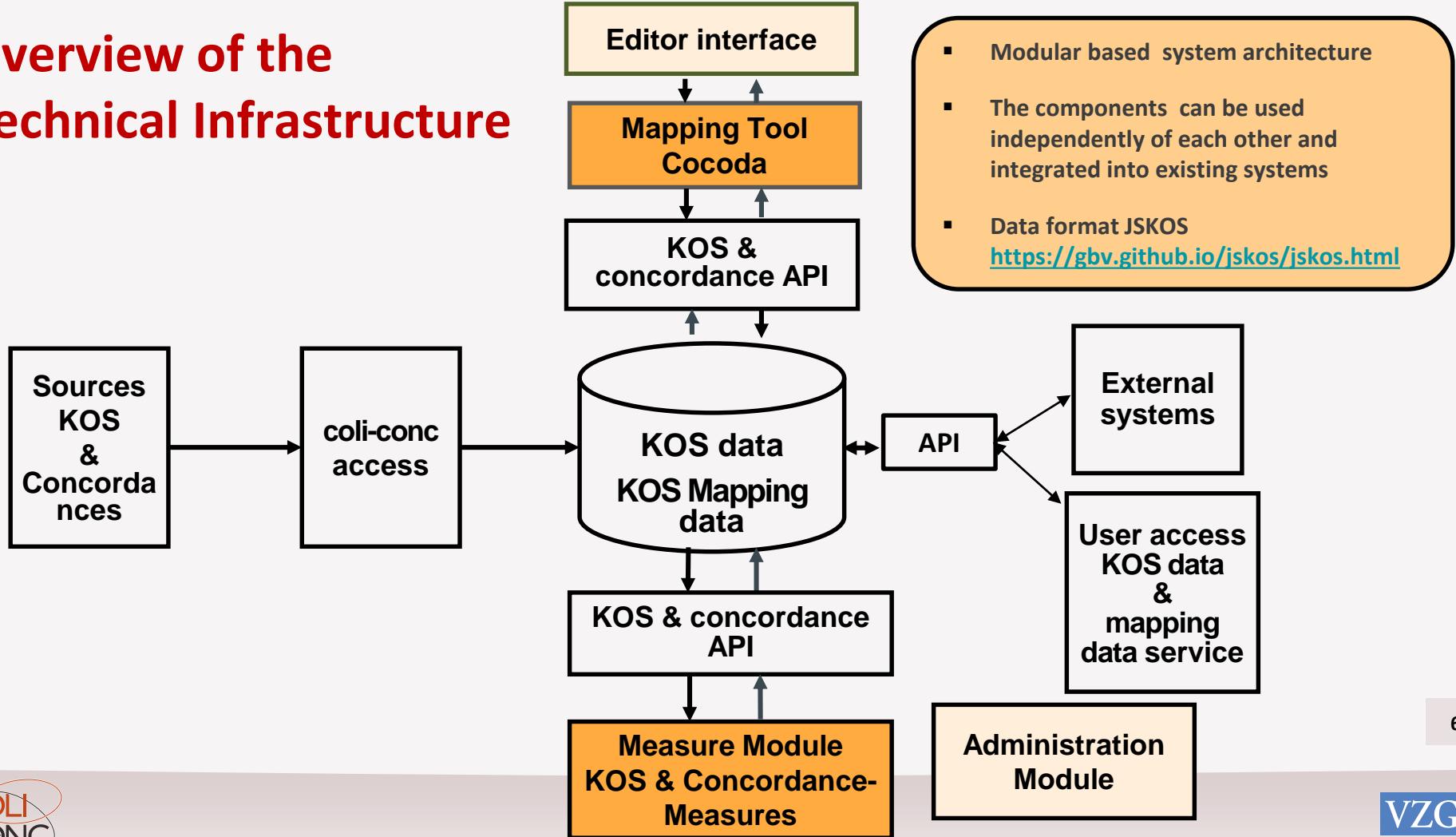


Rational

High Diversity in KOS

Need for mappings, tools and gold standards to store and manage KOS and mappings

# Overview of the Technical Infrastructure



# coli-conc Key Features

- **Open Source Software**
- KOS Registry and Concordance Registry  
(BARTOC <https://bartoc.org/>)
- **Web-based Mapping Tool** Cocoda
- Free Software to import and export KOS and Mappings
- APIs to link with external portals and systems that support subject indexing such as DA-3 and WinIBW

# Cocoda Web Interface

## <https://coli-conc.gbv.de/cocoda/app/>

Cocoda Mapping Tool

Imprint Accessibility Privacy Policy Feedback Manual ★ David-Benjamin Rohrer ⚙

RVK Regensburger Association Classification

Type to search...  
SR Allgemeines, Organisation, Ausbildung  
SQ - SU Informatik  
**SR 760 Software-Unternehmen**  
Concept Meta Links  
Software-Unternehmen preferred; de  
Softwarehaus gnd; de

SR 760 Software-Unternehmen

Concordance Registry: saved SQ-SU Informatik (David-Benjamin Rohrer)

Mappings  
Concordances Search Navigator

Concordance Registry C L W

RVK SR 760 Software-Unternehmen < DDC 338.47 Dienstleistungen und einzelne Produkte David-Benja... 2022-05-09 ±0

Hierarchy

SA - SP Mathematik  
SQ - SU Informatik  
Referateblätter und Zeitschriften  
SR Allgemeines, Organisation, Ausbildung  
SR 100 Sprachliche Wörterbücher zur Datenverarbeitung  
SR 200 Fachwörterbücher  
SR 400 Fachwörterbücher verwandter Gebiete  
SR 500 Biografien  
SR 600 Bibliografien  
SR 700 Adressverzeichnisse  
SR 710 Hardware-Kataloge  
SR 720 Software-Kataloge  
SR 750 Standardisierungsgremien (z.B. W3C)  
**SR 760 Software-Unternehmen**  
IT-Services, IT-infrastructure library  
SR 800 Geschichte der Datenverarbeitung  
SR 850 Gesellschaftliche Folgen der Datenverarbeitung  
SR 860 Organisation der Datenverarbeitung

Mapping Editor

SR 760 Software-Unternehmen < 338.47 Dienstleistungen und einzelne Produkte

DDC Dewey Decimal Classification BY-NC-ND

Software  
338.4 Sekundärer Sektor und Dienstleistungssektor  
338.1-338.3 Einzelne Arten von Industrien (Wirtschaftszweige)  
338 Produktion  
330 Wirtschaft  
310 Sozialwissenschaften  
**338.47 Dienstleistungen und einzelne Produkte**  
Concept Meta Links coli-ana  
Dienstleistungen und einzelne Produkte preferred; de  
Dienstleistungssektor alternative; gnd; de  
Immaterielle Wirtschaftsgüter alternative; de  
Verknappung–sekundärer Sektor alternative; de  
Mangel–sekundärer Sektor alternative; de  
Angebot (Güter)–Prognosen–sekundärer Sektor alternative; de  
Warenangebot–Prognosen–sekundärer Sektor alternative; de  
Güterangebot–Prognosen–sekundärer Sektor alternative; de  
Vorräte–Prognosen–sekundärer Sektor alternative; de

Hierarchy

338.1-338.4 Einzelne Arten von Industrien (Wirtschaftszweige)  
338.1-338.3 Primärer Sektor (Grundstoffindustrien)  
**338.4 Sekundärer Sektor und Dienstleistungssektor**  
338.4029 Warenverzeichnisse–verarbeitendes Gewerbe  
338.43 Finanzielle Aspekte  
338.45 Produktionseffizienz  
338.46 Freiberufliche Dienstleistungen  
**338.47 Dienstleistungen und einzelne Produkte**  
338.48 Industriepolitik  
338.5 Allgemeine Produktionswirtschaft  
338.6 Produktionsorganisation  
338.7 Unternehmen  
338.8 Konzerne  
338.9 Wirtschaftsentwicklung und Wirtschaftswachstum  
339 Makroökonomie und verwandte Themen  
340 Recht  
350 Öffentliche Verwaltung & Militärwissenschaft  
360 Soziale Probleme & Sozialdienste

VZGI

# Cocoda Key Features

- **Multi-user System**
- **Integration of any kind of KOS** with uniform browsing and searching functionality  
(Access to over 70 KOS currently)
- **Deep-Links to subject indexing** in the K10plus Catalogue
- **Look up** for und **Evaluate** existing mappings
- **Mapping-Suggestions** generated based on multiple algorithms and from multiple sources
- **Assigning Mapping types:** = exact, ≈ close, < narrower, > broader, ~ related
- **Store and Manage** own und common mappings
- **Collaborative work**
- Feedback Function for amendments
- Display and download of Mapping details in various formats

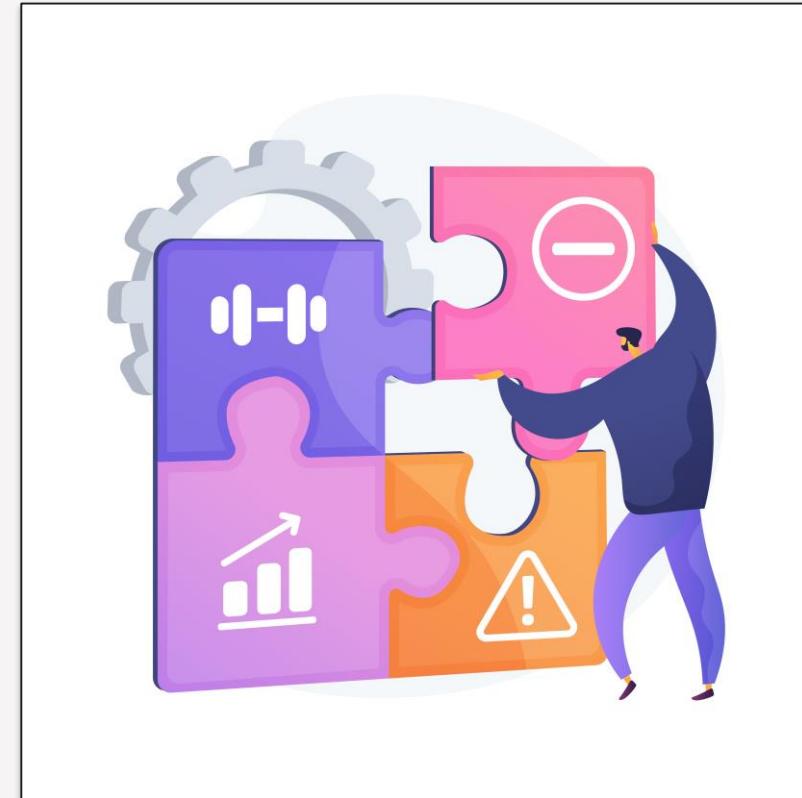
# On-going Mapping Work

- Regensburger Verbund Classification (RVK) -> Basic Classification (BK)
- 22 concordances in different subject fields
- About 14.000 Mappings

**Total No. of Mappings in Concordance Registry: over 380.000**

# Methods of Enrichment

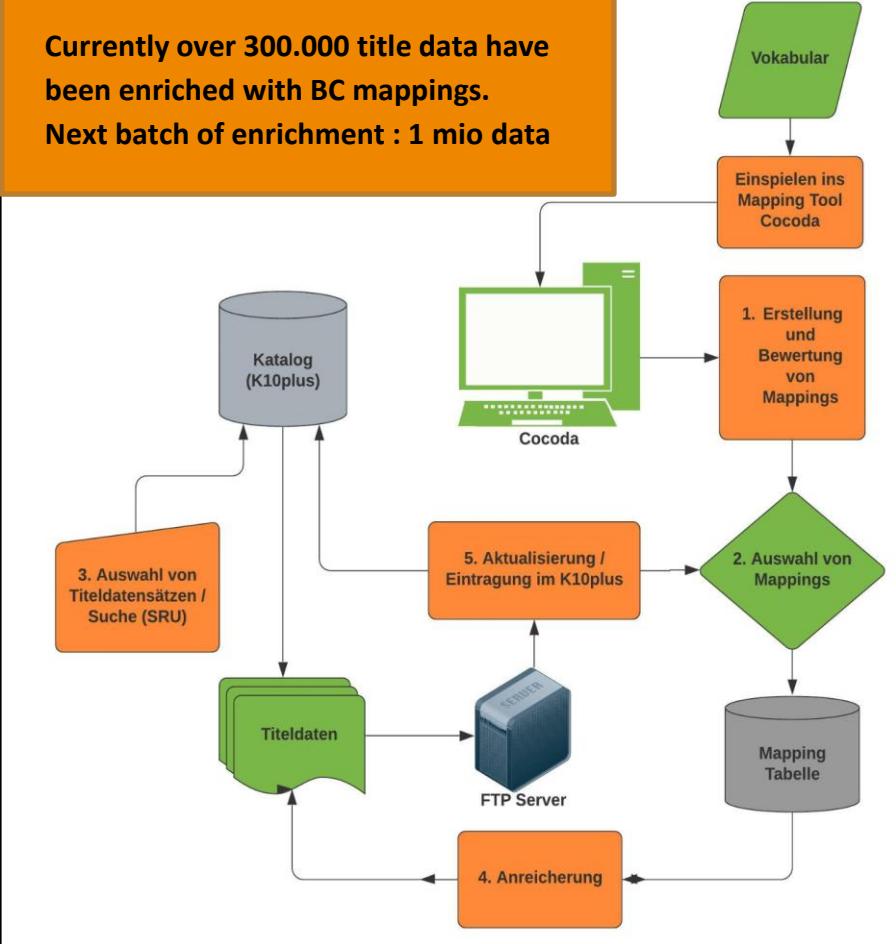
- Automatic process: coli-rich Module
- Semi-automatic process:
  - coli-rich Web
  - Display of mappings and Integration of the infrastructure with the external systems (Digitaler Assistent DA-3 , WinIBW cataloguing Software)



# coli-rich Workflow

1. Creation and Evaluation of Mappings with Cocoda
2. Examination of the completeness and correctness
3. Transfer of the selected mappings into a mapping table
4. Copy of title data to be enriched
5. Update the catalog with the enriched titles

Currently over 300.000 title data have been enriched with BC mappings.  
Next batch of enrichment : 1 mio data



# Integration into the DA-3 – Subject Indexing Tool

## DA-3-Suggestions

### Mappings in Concordance-Registry

The screenshot shows the Mapping-Editor interface. At the top, there are two boxes labeled "Konzept ziehen und hier ablegen." with an arrow between them. Below this is a toolbar with icons for file operations. The main area is divided into "Konkordanzen" and "Suche" tabs, with "Navigator" selected. A red box highlights the "Mappings" section, which lists two entries:

RVK	VW 6100 - VW	<	BK	44.41 Pharmazeutische Biologie	David-Benja...	2022-04-07	+1 ↗ ↘ ↙ ↖ ↖ ↖ ↖
	6109 Nutzpflanzen der Tropen und Subtropen						
RVK	VW 6100 - VW	~	BK	44.73 Geomedizin	Melanie Jan...	2022-04-22	±0 ↗ ↘ ↙ ↖ ↖ ↖ ↖
	6109 Nutzpflanzen der Tropen und Subtropen						

Below the mappings, there are sections for "Lokal", "Wikidata-Mappings", and "KonSys Mappings", each with a "keine Ergebnisse" message. At the bottom are buttons for "CR", "CO", and "CC".

The screenshot shows the DA-3-Suggestions interface. At the top, there is a header with "Info", "Vorschläge", "Status", "Rohdaten", and "Einstellungen". The main area lists suggestions under categories like BK, DDC, Freie Schlagwörter, and GND, each with a list of terms and associated institutions (e.g., slsp, sudoc, bvb, obv, rebiun, hebis). A red arrow points from the highlighted row in the left screenshot to the "44.41 Pharmazeutische Biologie" entry in this list.

BK	44.41 Pharmazeutische Biologie	@rvk-narrow/cc		
	44.73 Geomedizin	@rvk-related/cc		
DDC	<a href="#">615.3/21</a>	slsp, sudoc		
	<a href="#">615.32109/16 [23]</a>	bvb		
	<a href="#">615.321096 [23]</a>	obv, slsp		
	<a href="#">615.321 [23]</a>	bnf		
	<a href="#">615.321</a>	hebis		
Freie Schlagwörter	Electronic books. [Form]	obv		
	Electronic books [Form]	rebiun		
	HEALTH & FITNESS / Herbal Medications. [Sach]	rebiun		
GND	Afrika [Geo]	bvb, slsp		
	Forschung [Sach]	slsp		
	Heilpflanzen [Sach]	bvb, slsp		
	Pflanzeninhaltsstoff [Sach]	bvb, slsp		
	Phytochemie [Sach]	slsp		
	Aufsatzsammlung [Form]	slsp		
LCC	QK99.A53	obv		
LCSH	Botany, Medical -- Research -- Africa.	obv, slsp		
	Materia medica, Vegetable -- Research -- Africa.	slsp		
	Medicinal plants -- Research -- Africa.	obv, slsp		
	Materia medica, Vegetable -- Research -- Africa.	obv, slsp		
	Medicinal plants -- Research -- Africa.	slsp		
	Botany, Medical -- Research -- Africa.	slsp		
	Rameau			
	Phytotérapie -- Afrique	bnf, sudoc		
	Plantes médicinales -- Chimie	bnf, sudoc		
	Plantes médicinales -- Afrique	bnf, sudoc		

## 1. Search Title

The screenshot shows the Cocoda search interface. On the left, there's a sidebar with tabs for 'Suche', 'Bearbeiten', 'Exportliste', and 'Testsystem'. Below these are buttons for 'Nummersuche', 'Erweiterte Suche', and 'Verlauf'. A search bar contains the number '757423949'. On the right, the main area displays search results under 'Suchergebnisse' with the title 'Medicinal plant research in Africa' by Victor Kuete.

## 2. Look up suggestions

This screenshot shows the Cocoda interface with a focus on suggestions. The top navigation bar includes 'Status | Rohdaten | Einstellungen #'. Below it, a 'Vorschläge' section lists 'BK' followed by '44.41 Pharmazeutische Biologie' and '44.73 Geomedizin'. To the right, there are social media sharing icons and a link '@rvk-narrow/cc'. A red box highlights the link '[coli-conc]' next to '44.41'. Another red box highlights the link '[coli-conc]' next to '44.73'.

## 3. Create new Mappings in Cocoda

The screenshot shows the 'Mapping-Editor' window. It displays a table of mappings between RVK codes and BK codes. A new entry is being created for 'VW 6100 - VW 6109 Nutzpflanzen der Tropen und Subtropen' mapped to 'BK 44.39 Toxikologie'. The entire row for this entry is highlighted with a red border. The table also includes columns for 'Konkordanzen', 'Suche', and 'Navigator'.

## 4. Import

This screenshot shows the Cocoda interface after import. The 'Vorschläge' section now includes the imported entries: '44.39 Toxikologie', '44.41 Pharmazeutische Biologie', '44.73 Geomedizin', and 'DDC'. The 'Aktualisieren' button in the navigation bar is highlighted with a red box. To the right, there are social media sharing icons and a link '@rvk-related/cc'.

# coli-rich Web



coli-rich-web

← zurück zur coli-conc Webseite

ISIL: 12345▼

EN

DE

Semi-automatische Eintragung von Sacherschließungsdaten in PICA-Datenbanken.

Mit folgendem Formular können Titeldaten aus PICA-Datenbanken abgerufen werden, um diese mit Sacherschließungsdaten (auf Basis von coli-conc Mappings) anzureichern.

Datenbankauswahl

Titel laden

Titelangaben

PPN

Titel: Estimating Ore Grade Using Evolutionary Machine Learning Modelsinfo / Ehteram, Mohammad. - 1st ed. 2023.. -  
Singapore : Springer Nature Singapore, 2023

DDC: 549  
Sacherschließung bicssc: RBGG ; bisacsh: SCI048000  
LOC-SH: Mineralogy. ; Machine learning. ; Artificial intelligence--Data processing. ; Artificial intelligence.

Mögliche Anreicherung

Vokabular	Notation	Quelle	
BK	38.30 Mineralogie	DDC: 549 Mineralogie = BK: 38:30 Mineralogie (Autor, Datum) <a href="#">Details</a>	<input type="checkbox"/>
		DDC: 549 Mineralogie -> BK: 38:30 Mineralogie (Autor, Datum) <a href="#">Details</a>	<input checked="" type="checkbox"/>

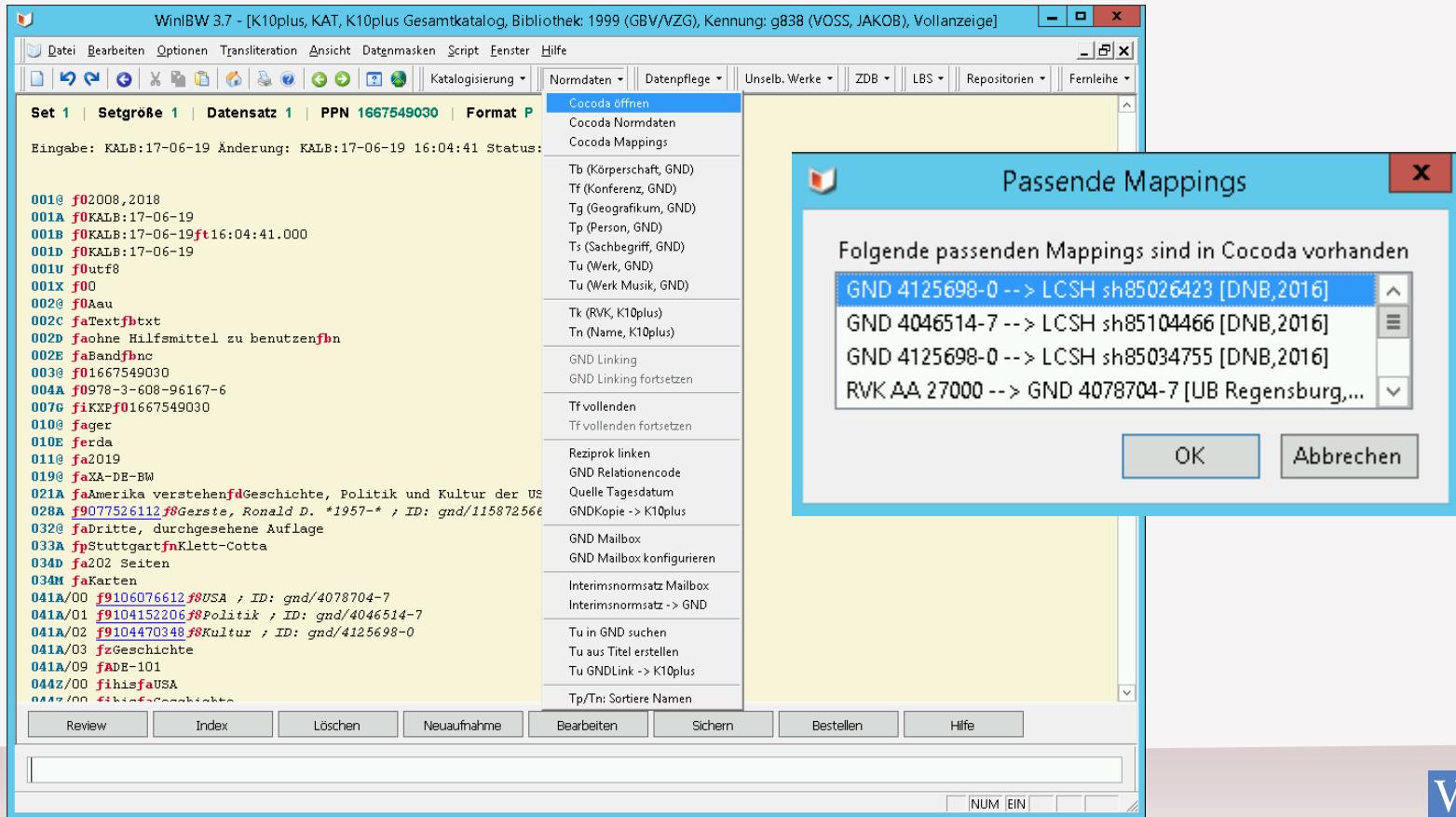
Eintragung erfolgreich! ✓

coli-rich-web ist Teil des [coli-conc Projekts](#). Der Quellcode und die technische Dokumentation werden über [GitHub](#) bereitgestellt. Dieses Tool ist noch in der Entwicklungsphase.

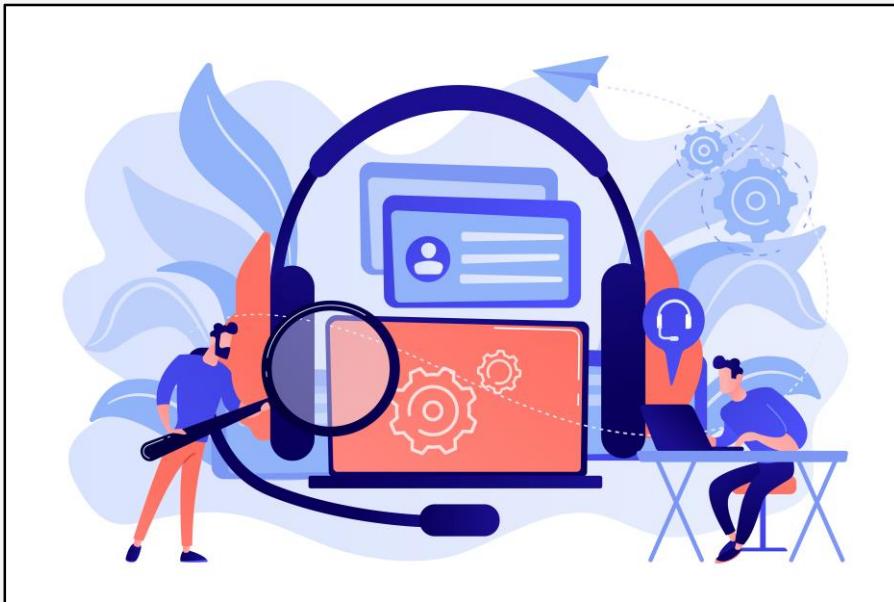
coli-conc ist ein Projekt der [Verbundzentrale des GBV \(VZG\)](#). Es wird gefördert von der Deutschen Forschungsgemeinschaft (DFG) 2015-2019 und 2021-2023.

[Impressum](#) | [Barrierefreiheit](#) | [Datenschutz](#)

# Integration into Cataloguing Software - WinIBW



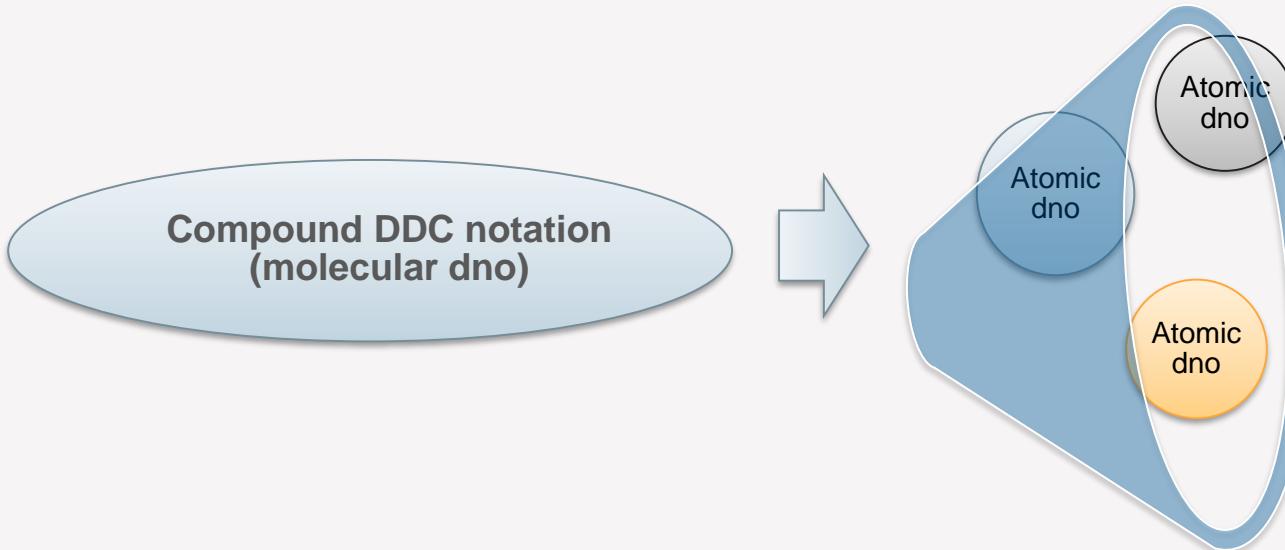
# Future Services



- **Hosting and maintenance of the Infrastructure**
- **Continuation of mapping work** for large indexing systems
- **Coli-rich catalog enrichment**
- **Assist libraries** in their mapping work with cocoda and local catalog enrichment
- **Quality Control** and editorial work

# Subproject coli-ana

A tool for automatic analysis of synthesized DDC notations



## Rational

Huge Influx of Dewey numbers into the union catalogue K10plus from external sources (Library of Congress, Worldcat)

Over 1 mio. unique DDC built numbers in K10plus

# Objectives

## Improve Retrieval

- Support of search terms (atomic dnos)  
**Example:** T1--09044 (DDf \*1940-1949 )  
returns all titles that are in any way related to the 1940s
- Extension to full text search through captions  
(all captions contained in a synthesized dno)
- Assessment and ranking of similar publications

## Improve the presentation in the catalogue

## Analyse & enhance subject indexing

**Example:** DDC 700 "Arts" and T1--0901-0905:074 "Museums, collections, exhibitions" => BC 20.13 "Art exhibition".



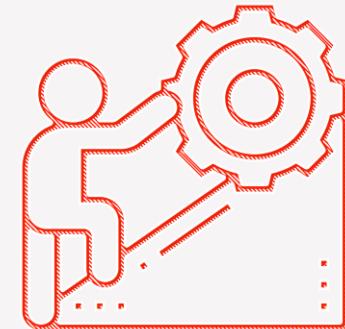
The screenshot shows a catalog record from a library system. The record includes the following fields:

K10plusPPN:	374538816
Titel:	<b>1803 - die gelehrten Mönche und das Ende einer 1000-jährigen Tradition</b> : "In den Klöstern gediehen die größten Männer"; [Ausstellung vom 28. Mai bis 24. August 2003 Museum Obermünster, Regensburg / [hrsg. vom Bischöflichen Ordinariat Regensburg. Schriftleitung: Maria Baumann]
Beteiligt:	Baumann, Maria
Körperschaft:	Diözesanmuseum Regensburg Diözese (Regensburg)
Erschienen:	Regensburg : Schnell und Steiner, 2003
Umfang:	71 S : Ill
Sprache(n):	Deutsch
Schriftenreihe:	Kataloge und Schriften / Diözesanmuseum Regensburg
ISBN:	3-7954-1587-X
Sonstige Nummern:	OCOLOC: 163150381
RVK-Notation:	G:bn S:rsg   BO 1268   LH 47480   NS 5500   NS 1925   Ähnliche Literatur
Sachgebiete:	Basisklassifikation: 11.54 (Katholizismus) SSG-Nummer(n): 8,1

A tooltip is visible over the RVK-Notation field, reading: "Benennung der RVK-Notation "BO 1268" Zur Navigation in RVK Online klicken Sie bitte auf den INFO-Button".

# Challenges in Automatic Analysis

- **Extensive System** with over **51.700** classes
- **Complex number building system**
  - Main schedule, six tables and other auxillary tables
  - Standard subdivisions, notes
  - **Over 9.987 instructions** (e.g. add note, authorisation, discontinuation, include note, class here, class elsewhere, revision,...)
    - Bundled into 60 rule parts
- **Possibility to build** fine and accurate DDC numbers that can get very lengthy Example:



# coli-ana Workflow

## Data Cleanising

Elimination of duplicate dnos and cleaning of input data from incorrect dnos

## Creation of Knowledge Base

Extraction of data for analysis based from the electronic version of the DDC 23 as facts and rules

## Ingestion of dnos into the system vc\_day

dno input into the analyser : vc\_day

## Analyse

Automatically analyse the molecular dnos from left to right

## Output

vc\_daygram

# Example vc\_daygram

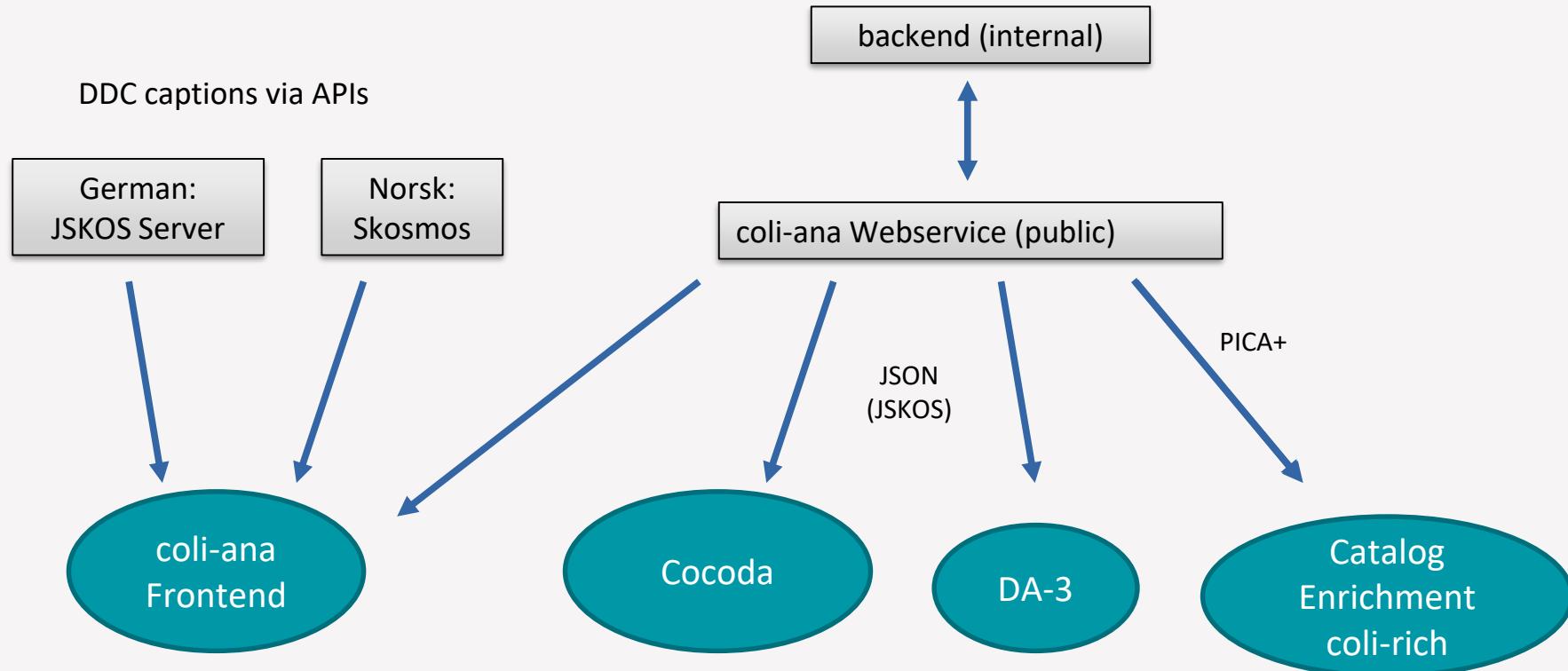
```
700.90440747471 <liu_2_to_analyze; length: 15>
7----- Arts & recreation <dno_main>
70----- Arts <dno_div>
700----- The arts <dno_sec>
700.9----- Standard subdivisions of the arts #dno_span_cen# <dno_sub_span:700.1-700.9>
700.9----- History, geographic treatment, biography of the arts #dno_syn#
700.904----- Modern arts <RI_bui>
700.904----- Modern arts <dno_bui>
-0----- <Facet Indicator> <0>
--0----- Table 1. Standard Subdivisions <tabno:T1--0>
--0.9----- History, geographic treatment, biography <tabno:T1--09>
--0.9----- Regional treatment <RI:T1--09>
--0.904----- *20th century, 1900-1999 <tabno:T1--0904>
--0.904----- Historical periods #dno_span_cen# <tabno_span:T1--0901-T1--0905>
--0.904----- Twentieth century <RI:T1--0904>
--0.9044----- *1940-1949 <tabno:T1--09044>
--0.9044----- World War II, 1939-1945 <RI:T1--09044>
----07----- Museums, collections, exhibits; collecting objects <p9->tabno_span_1:T1--0901-T1--0905:07>
----074----- Museums, collections, exhibits <p9->tabno_span_1:T1--0901-T1--0905:074>
-----7----- North America <p20_5->tabno:T2--7>
-----7----- Modern world; extraterrestrial worlds #dno_span_cen# <p20_5->tabno_span:T2--4-T2--9>
-----7----- North America <p20_5->RI:T2--7>
-----74----- Northeastern United States (New England and Middle Atlantic states) <p20_5->tabno:T2--74>
-----74----- Specific states of United States #dno_span_cen# <p20_5->tabno_span:T2--74-T2--79>
-----74----- Northeastern States <p20_5->RI:T2--74>
-----747----- New York <p20_5->tabno:T2--747>
-----747----- Middle Atlantic states #dno_span_cen# <p20_5->tabno_span:T2--747-T2--749>
-----747----- New York (State) <p20_5->RI:T2--747>
-----7471----- New York <p20_5->tabno:T2--7471>
-----7471----- New York Metropolitan Area <p20_5->RI:T2--7471>
```

# Use Cases

- **Catalogue Enrichment** : entry into the Catalogues
  - for instance K10plus) and other bibliographic retrieval systems
- **Extend** search functionality
- **Analyse and Re-use** (coli-ana webservice)
- **Map** semantic components (Mapping Tool Cocoda)
- **Digitaler Assistent** Subject Indexing tool
- **Quality** Control: improve the quality of DDC notations in catalogues



# coli-ana Technical Implementation



# coli-ana Webservice

<https://coli-conc.gbv.de/coli-ana/app/>



[← back to coli-conc website](#)

## coli-ana

### DDC Analysis

666.444

analyze

Language: Deutsch, Norsk

Examples: 700.23, 700.90440747471, 666.444, 555.55, 641.50902, 341.4202664304409443835

666.444 Glasieren--Töpferhandwerk

- 6----- Technik, Medizin, angewandte Wissenschaften (600)
- ↳ 66----- Chemische Verfahrenstechnik (660)
- ↳ 666---- Keramiktechnologie und zugeordnete Technologien (666)
- ↳ 666.4-- Materialien, Ausstattung, Verfahren im Töpferhandwerk (666.4)
- ↳ 666.444 Glasieren--Töpferhandwerk (666.444)
- .-4-- Techniken und Verfahren (738.14)
- ↳ ---.-44 Glasieren (738.144)

PICA+ 045H/20 \$eDDC23ger\$a666.444\$c666.4\$d738.144\$Acoli-ana {?}

Pica3 5420 [DDC23ger]666.444-G--666.4-H--738.144\$Acoli-ana

deep links to the title data in K10plus



<http://dewey.info/class/738.144/e23/> ↗

Analyze ↗

WebDewey (de) ↗

Cocoda ↗

analysis in the catalog record

# Integration into Cocoda

<https://coli-conc.gbv.de/cocoda/app/>

The screenshot shows a search interface for the colि-ana application. At the top, there is a search bar with the placeholder "Type to search..." and a "Settings" gear icon. Below the search bar, a list of Dewey Decimal Classification (DDC) entries is displayed:

- ▼ 600 Technik
- †660 Chemische Verfahrenstechnik
- †666 Keramiktechnologie und zugeordnete Technologien
- †666.4 Materialien, Ausstattung, Verfahren im Töpferhandwerk
- †666.44 Techniken und Verfahren
- 666.444 Glasieren** ★

Below the list, there are tabs for "Info", "Labels", "Search Links", and "coli-ana". The "coli-ana" tab is selected and highlighted in blue. To the right of the tabs are two small arrows pointing left and right. The main content area shows the detailed information for the selected entry "666.444 Glasieren":

- 666.444
- 6----- Technik (600)
- ↳ 66----- Chemische Verfahrenstechnik (660)
- ↳ 666----- Keramiktechnologie und zugeordnete Technologien (666)
- ↳ **666 .4-- Materialien, Ausstattung, Verfahren im Töpferhandwerk (666.4)**
- 666.444 Glasieren (666.444)
- .4- Techniken und Verfahren (738.14)
- ↳ --- .44 Glasieren (738.144)

At the bottom of the interface, there is a link: "Go to the [coli-ana](#) web interface for more details and information."

Create and manage mappings between atomic DDC notations and entries of other vocabularies (Wikidata, LCSH, GND)

# coli-ana in Digitaler Assistent (DA -3)

# Union Catalog - K10plus

PPN:	766834530 <a href="#">Zitier</a>
Titel:	Revolutionary Teamsters : The Minneapolis Truckers' Strikes of 1934
Verfasser:	Palmer, Bryan D.
Ort/Jahr:	Leiden : BRILL, 2013
Sprache/n:	Englisch
Umfang:	Online-Ressource (346 p)
Schriftenreihe:	Historical Materialism Book Series
Anmerkung:	Description based upon print version of record
Mehr zum Titel:	Contents; Acknowledgements; Illustrations; Chapter One The Strike; Chapter Three Uneven and Combined Depression; Chapter Five January Thaw; February Cold Snap; Chapter Six Auxiliary; Chapter Eight Rebel-Outpost: 1900 Chicago; Chapter Nine The Tribune Alley Plot and the Battle of the Streets; Chapter Ten Toward the July Days; Chapter Thirteen The Red Scare; Chapter Fifteen Martial Law and the Red-Scare; Chapter Sixteen The Great Solidarity; Chapter Nineteen Mediation's Meekness; Chapter Twenty-One After 1934: the Revenge of the United States, 1928-33; References; Index
Bibliogr. Zusammenhang:	Print version: Revolutionary Teamsters : The Minneapolis Truckers' Strikes of 1934. Leiden : Brill, 2013. ISBN 978-90-04-25420-6
ISBN:	978-90-04-25420-6 978-90-04-25486-2
Schlagwörter:	*Electronic books
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