

tcworld conference - 2025

iiRDS as a Multipurpose Enabler

From Content to Conversation with Chatbots

- Introduction of the speakers and the project
- What is iiRDS?
- Project overview
- Use case: Chatbots with iiRDS as their database
- Outlook and vision
- Q&A/discussion

Niko Schad

Head of Technical Documentation



Gebr. HELLER Maschinenfabrik

- Gebr. HELLER Maschinenfabrik
- Machine tool manufacturer based in Nürtingen
- 2,100 employees worldwide at 5 production sites in Europe, Asia, and North and South America
- Sales of individual machines through to fully automated turnkey manufacturing systems
- Customers from the automotive industry and its suppliers, general mechanical engineering, energy technology, fluid technology, aerospace, and many other industries



Fabienne Rothenberg

Team Leader Consulting

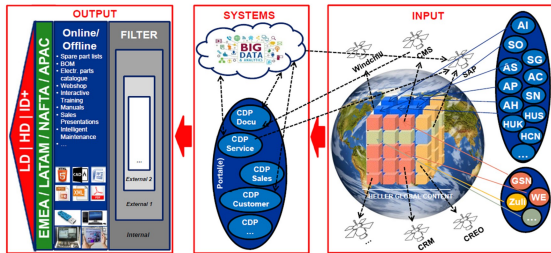
plusmeta GmbH

- Software company based in Karlsruhe, Germany
- Use of AI for automated metadata assignment and information process automation
- Creation of standard exchange formats (iiRDS, VDI 2770, AASX, etc.)
- Preparation of documents for modern applications such as CDP

Project Presentation

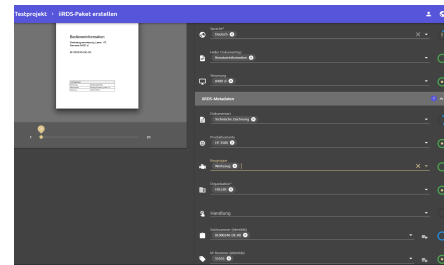
Initial situation and development to date

Idea & Big Picture



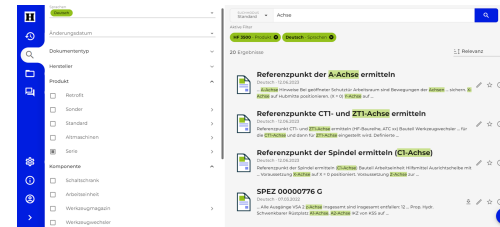
2015

Plusmeta Pioneer Program



2020

Metadata iiRDS for customer documentation



2022

Metadaten iiRDS for HELLER ASK.me

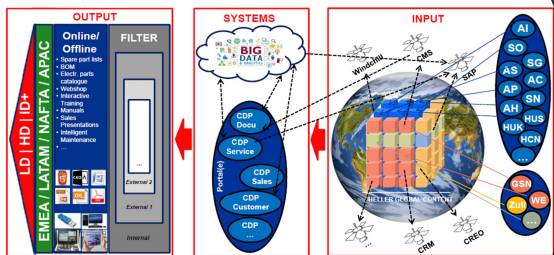


2025

Project Presentation

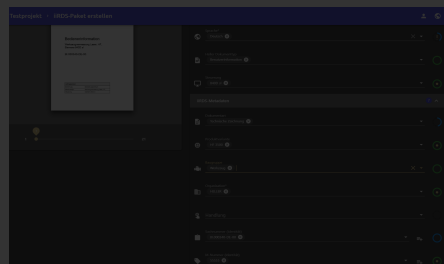
Initial situation and development to date

Idea & Big Picture



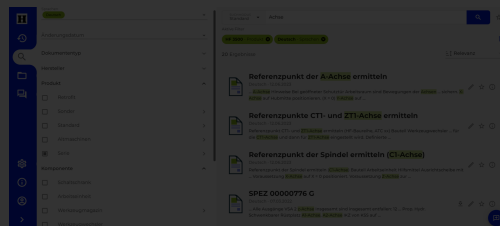
2015

Plusmeta Pioneer Program



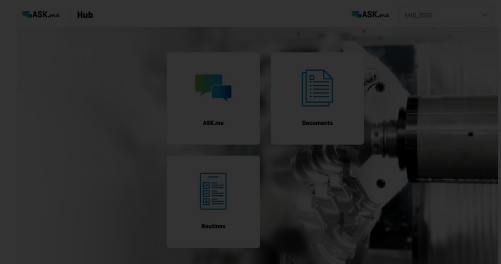
2020

Metadata iiRDS for customer documentation



2022

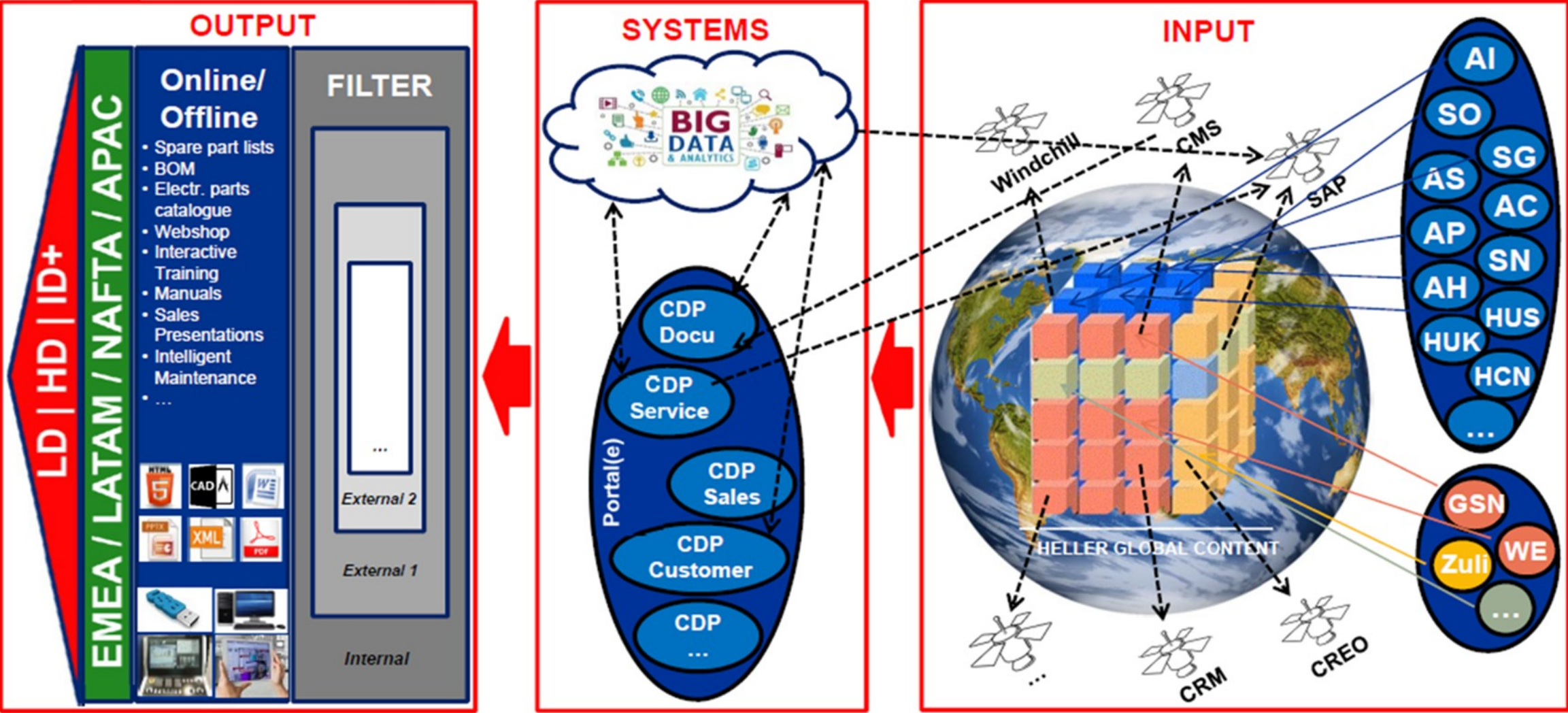
Metadata iiRDS for HELLER ASK.me



2025

Project Presentation

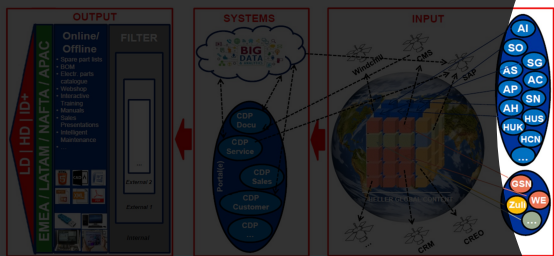
2015 Idea & Big Picture



Project Presentation

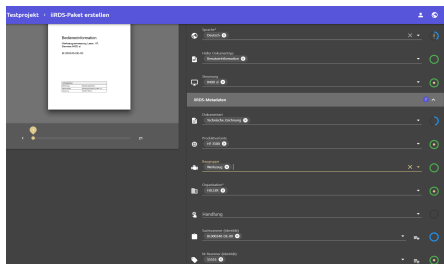
Initial situation and development to date

Idea & Big Picture



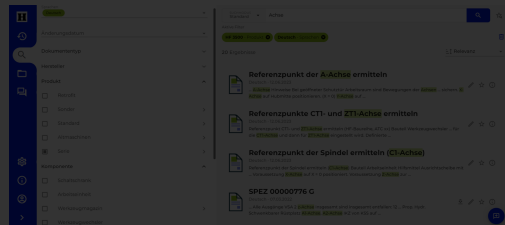
2015

Plusmeta Pioneer Program



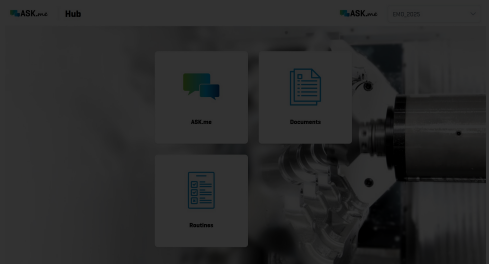
2020

Metadata iiRDS for customer documentation



2022

Metadata iiRDS for HELLER ASK.me



2025

Project Presentation

2020 Pioneer Program with plusmeta

Test project > Create iiRDS package

Bedienerinformation

Werkzeugvermessung Laser, HF,
Siemens 840D sl

BI.000340-DE-00

Auftragsdaten	
Benennung	Bestellungsdatum
Rechnungstyp	Werkzeugvermessung Laser, HF
Steuerung	Siemens 840D sl

1

21

Sprache*

Deutsch

Language*

German

Heller Dokumenttyp

Benutzerinformation

Heller document type

user information

Steuerung

840D sl

Control

840D sl

iiRDS-Metadaten

iiRDS metadata

Dokumentart

Technische Zeichnung

Document type

Produktvariante

HF 3500

Product variant

Baugruppe

Werkzeug

Assembly

Organisation*

HELLER

Organization*

Handlung

Action

Sachnummer (Identität)

BI.000340-DE-00

M-Nummer (Identität)

55555

HELLER

Initial situation and development to date

[illegible]

Project Presentation Projekt

2022 Metadata iiRDS for customer documentation

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⚙️

ℹ️

👤

>

Sprachen

Deutsch

Language

▼

Änderungsdatum

Date Modified/Last Updated

▼

Dokumententyp

Document type

▼

Hersteller

Manufacturer

▼

Produkt

Product

^

☐ Retrofit

☐ Sonder

☐ Standard

☐ Altmaschinen

☒ Serie

☐ Retrofit

☐ Special

☐ Standard

☐ Old machines

☐ Series

Komponente

Component

^

☐ Schaltschrank

☐ Arbeitseinheit

☐ Werkzeugmagazin

☐ Werkzeugwechsler

☐ Control cabinet

☐ Work unit

☐ Tool magazine

☐ Tool changer

SUCHMODUS

Standard

▼

Achse

🔍

☆

Aktive Filter

HF 3500 - Produkt

Deutsch - Sprachen

🗑️

20 Ergebnisse

⌵ Relevanz

▼

Referenzpunkt der A-Achse ermitteln

Deutsch · 12.06.2023

... A-Achse Hinweise Bei geöffneter Schutztür Arbeitsraum sind Bewegungen der Achsen ... sichern. X-Achse auf Hubmitte positionieren. (X = 0) Y-Achse auf ...

Referenzpunkte CT1- und ZT1-Achse ermitteln

Deutsch · 12.06.2023

Referenzpunkt CT1- und ZT1-Achse ermitteln (HF-Baureihe, ATC xx) Bauteil Werkzeugwechsler ... für die CT1-Achse und dann für ZT1-Achse eingestellt wird. Definierte ...

Referenzpunkt der Spindel ermitteln (C1-Achse)

Deutsch · 12.06.2023

Referenzpunkt der Spindel ermitteln (C1-Achse) Bauteil Arbeitseinheit Hilfsmittel Ausrichtscheibe mit ... Voraussetzung X-Achse auf X = 0 positioniert. Voraussetzung Z-Achse zur ...

SPEZ 00000776 G

Deutsch · 07.03.2022

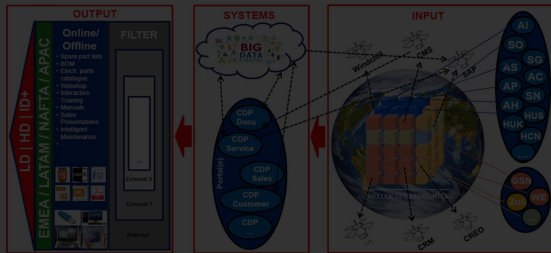
... Alle Ausgänge VSA 2 z-Achse Insgesamt sind insgesamt entfallen: 12 ... Prop. Hydr. Schwenkbarer Rüstplatz A1-Achse, A2-Achse IKZ von KSS auf ...

+

Project Presentation

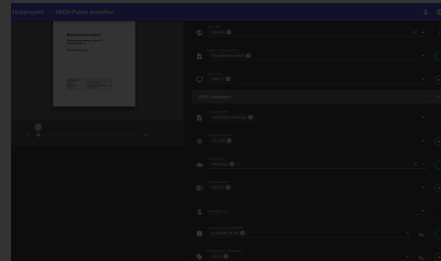
Initial situation and development to date

Idea & Big Picture



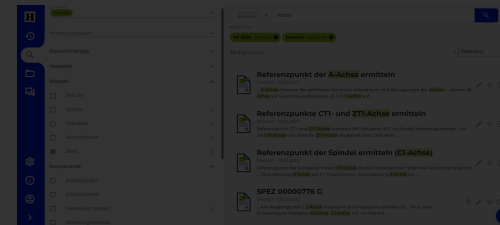
2015

Plusmeta Pioneer Program



2020

Metadata iiRDS for customer documentation



2022

Metadata iiRDS for HELLER ASK.me



2025

Project Presentation

2025 Metadata iiRDS for HELLER ASK.me

ASK.me

New Chat

Agents

manuals

production.data

HSI

machine.status

PLUS

Chats

Alt+C

Ausstoßmaß der Spindel

Was bedeutet sbbk?

How can i rethighthen the chain magaz...

HOW MUCH POWER THIS MACHINE DID...

Wie fülle ich das Hydrauliköl an der Ma...


Show me diagram of the spindletemp...

What kind oil do I need for the machine?

Wie fülle ich das Hydrauliköl nach?


EMO_2025

Welcome to




ASK.me is an AI-powered chatbot that assists you with all questions related to machine documentation, maintenance, and production data.

Just ask your question...



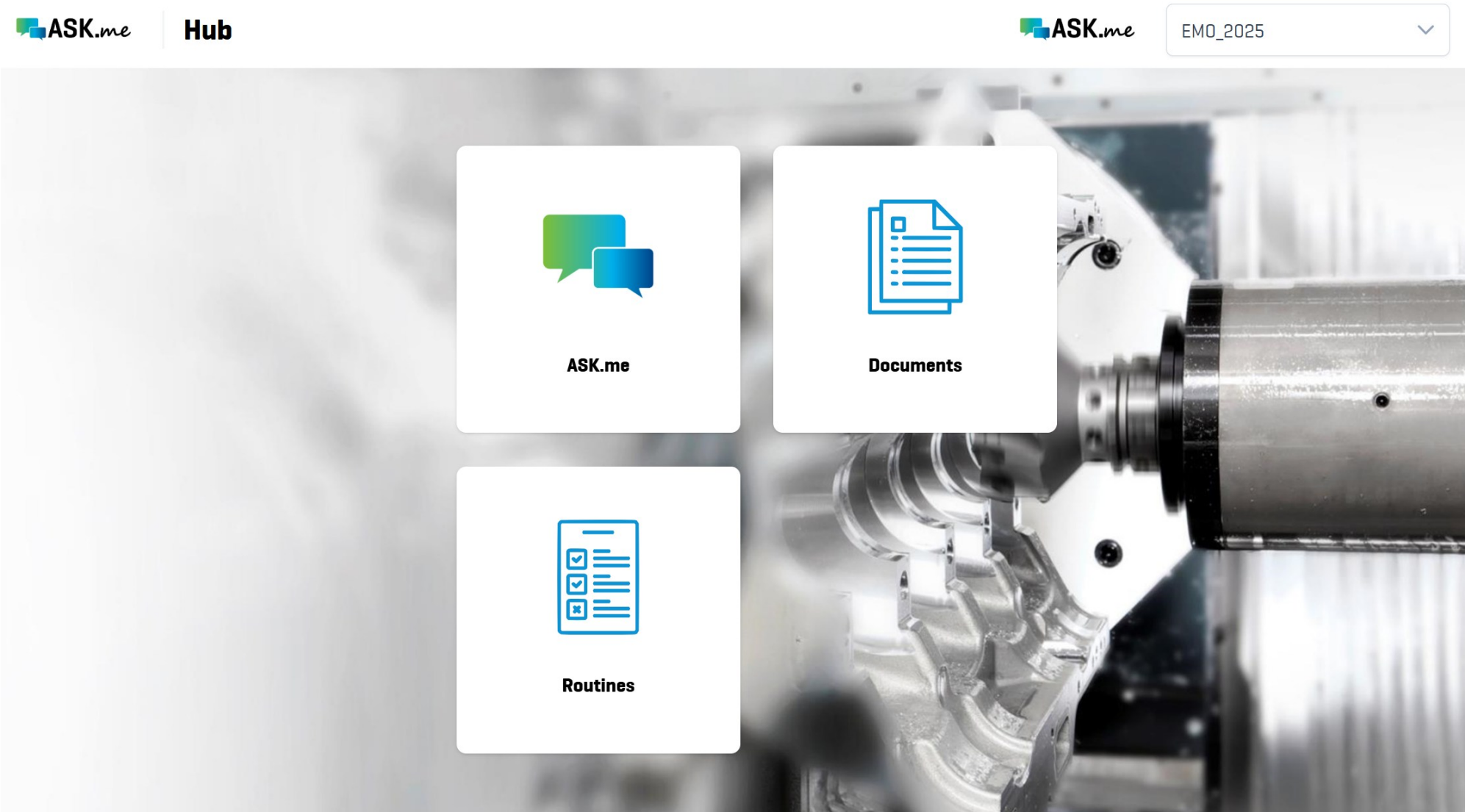
Send a message to ASK.me...



HELLER

Project Presentation

2025 Metadata iiRDS for HELLER ASK.me



iiRDS

Basics

Special features

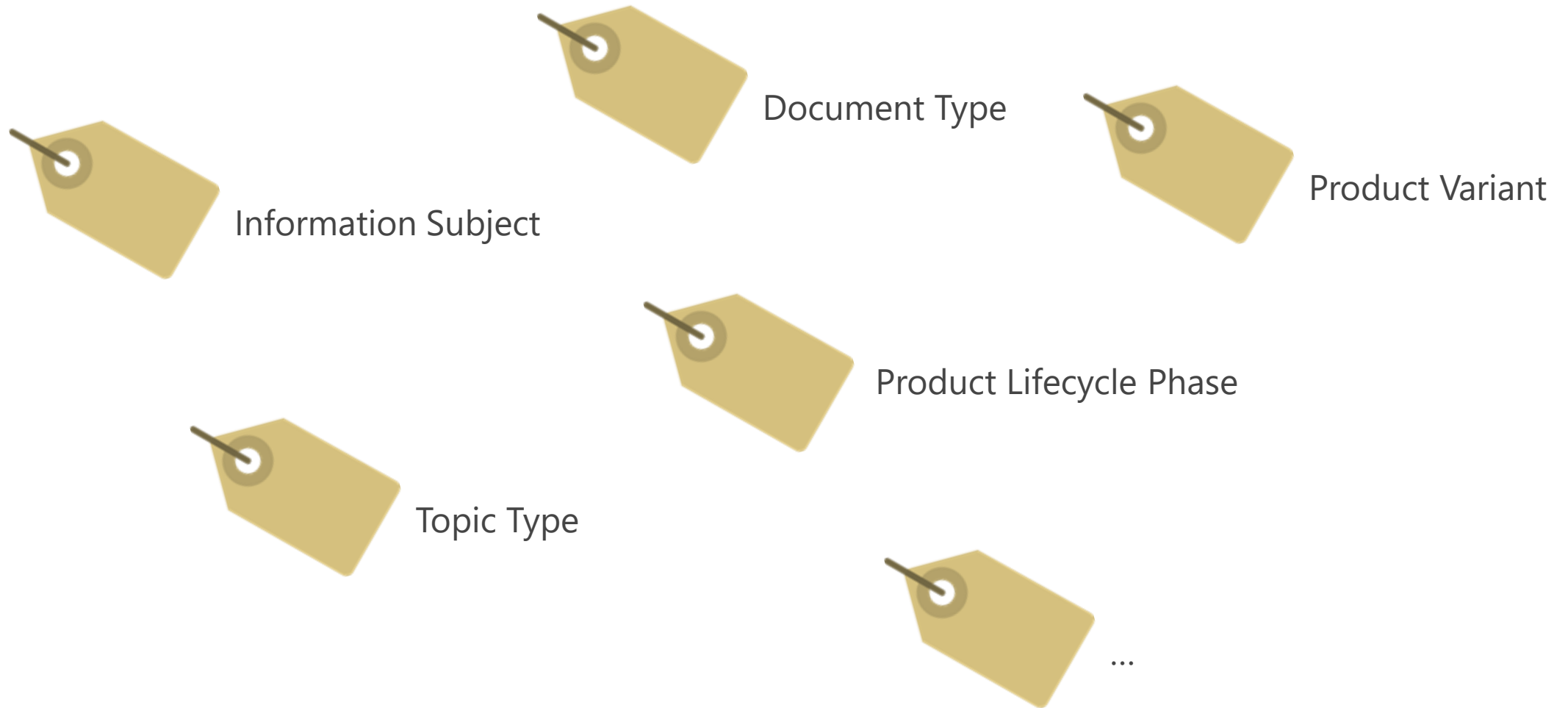
- Ontological data model
- Classes are not assigned
- Standard vocabulary for common metadata values (e.g., document types and topic types)
- Extensibility: Values with "generic"



```
<iirds:ProductVariant rdf:about="http://www.pi-fan-ag.de/metadata#t3-h1">
  <rdfs:label>T3-H1</rdfs:label>
  <iirds:relates-to-party>
    <iirds:Party rdf:about="urn:uuid:83721339-e266-59c9-a6f7-e32b8f91902f/manufacture">
      <iirds:has-party-role rdf:resource="http://iirds.tekom.de/iirds#Manufacturer"/>
      <iirds:relates-to-vcard>
        <vcard:Organization rdf:about="urn:uuid:83721339-e266-59c9-a6f7-e32b8f91902f">
          <vcard:fn>PI-Fan AG</vcard:fn>
        </vcard:Organization>
      </iirds:relates-to-vcard>
    </iirds:Party>
  </iirds:relates-to-party>
</iirds:ProductVariant>
```

Supported Formats







Document Type



Operating instructions



Maintenance instructions



Your document type



...

Custom Metadata Values



Product Variant



Product A



Product B

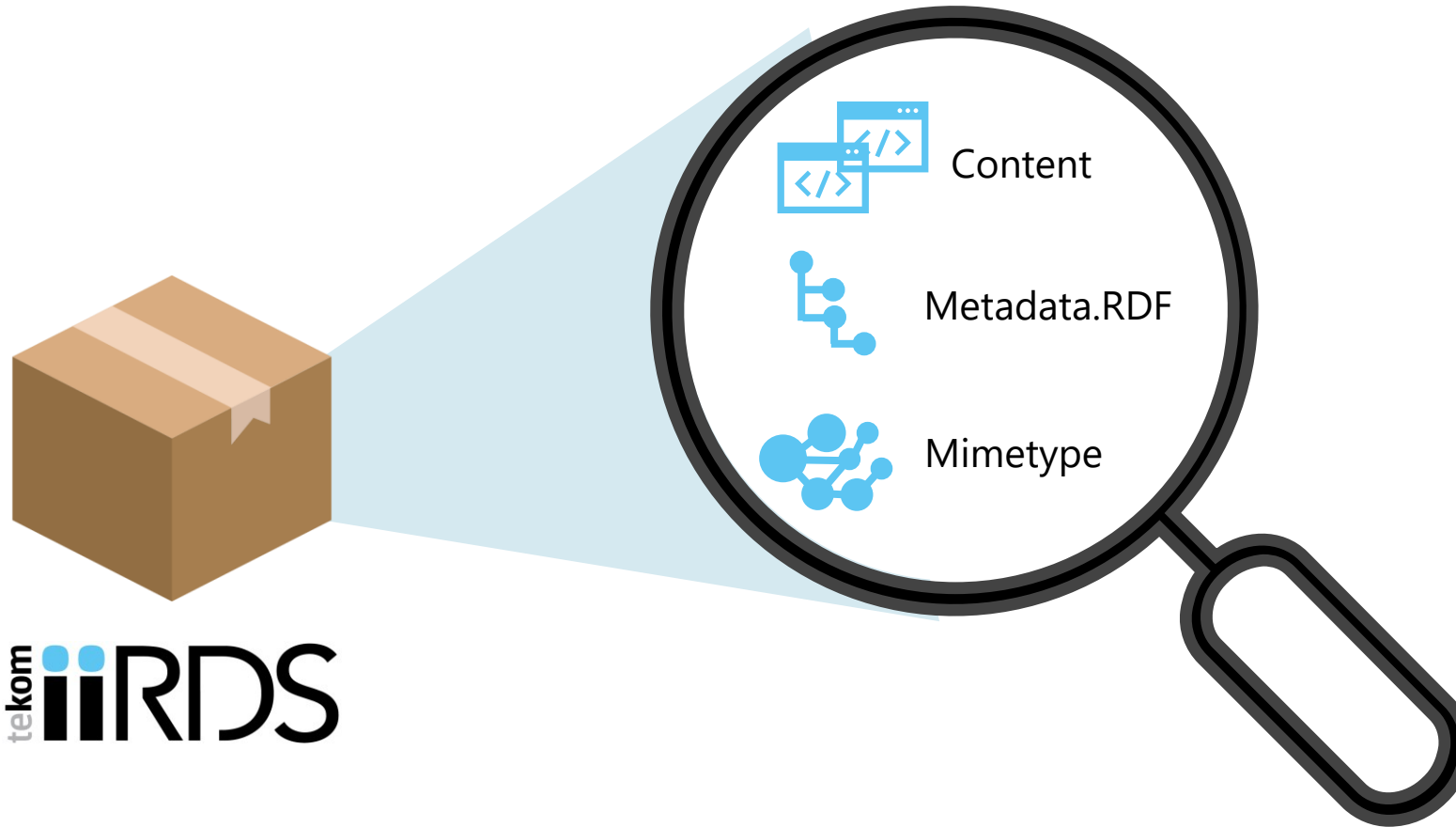


Product C

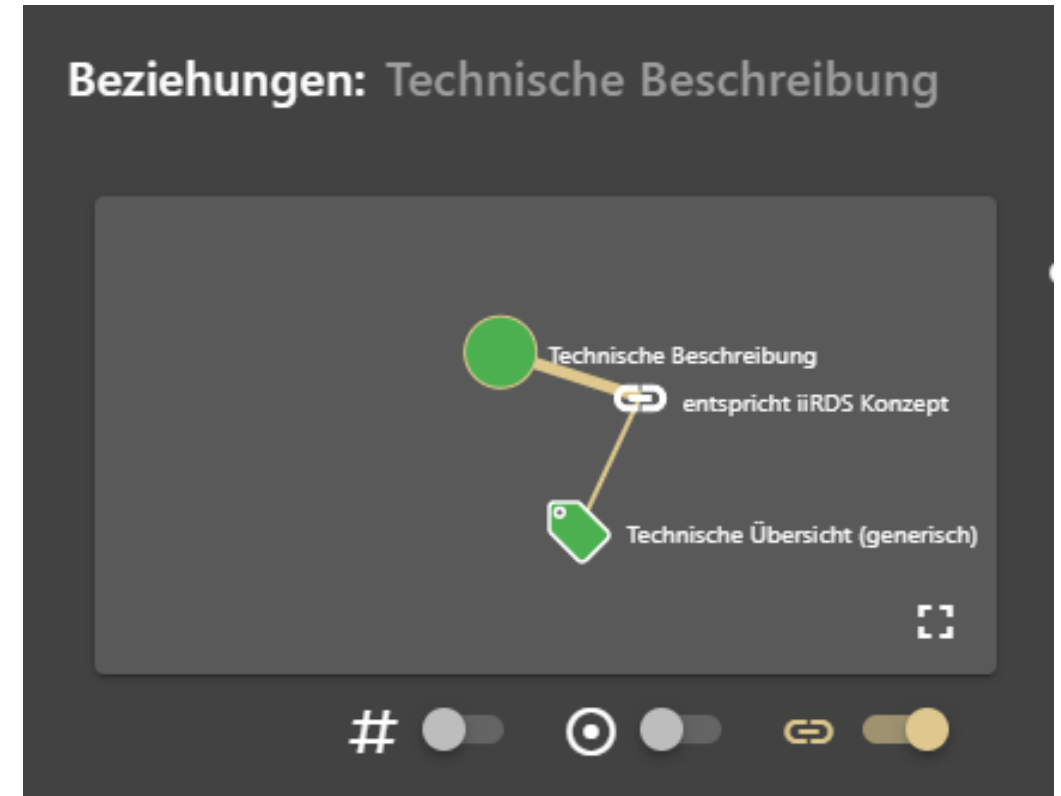


...

What does the iiRDS package contain?



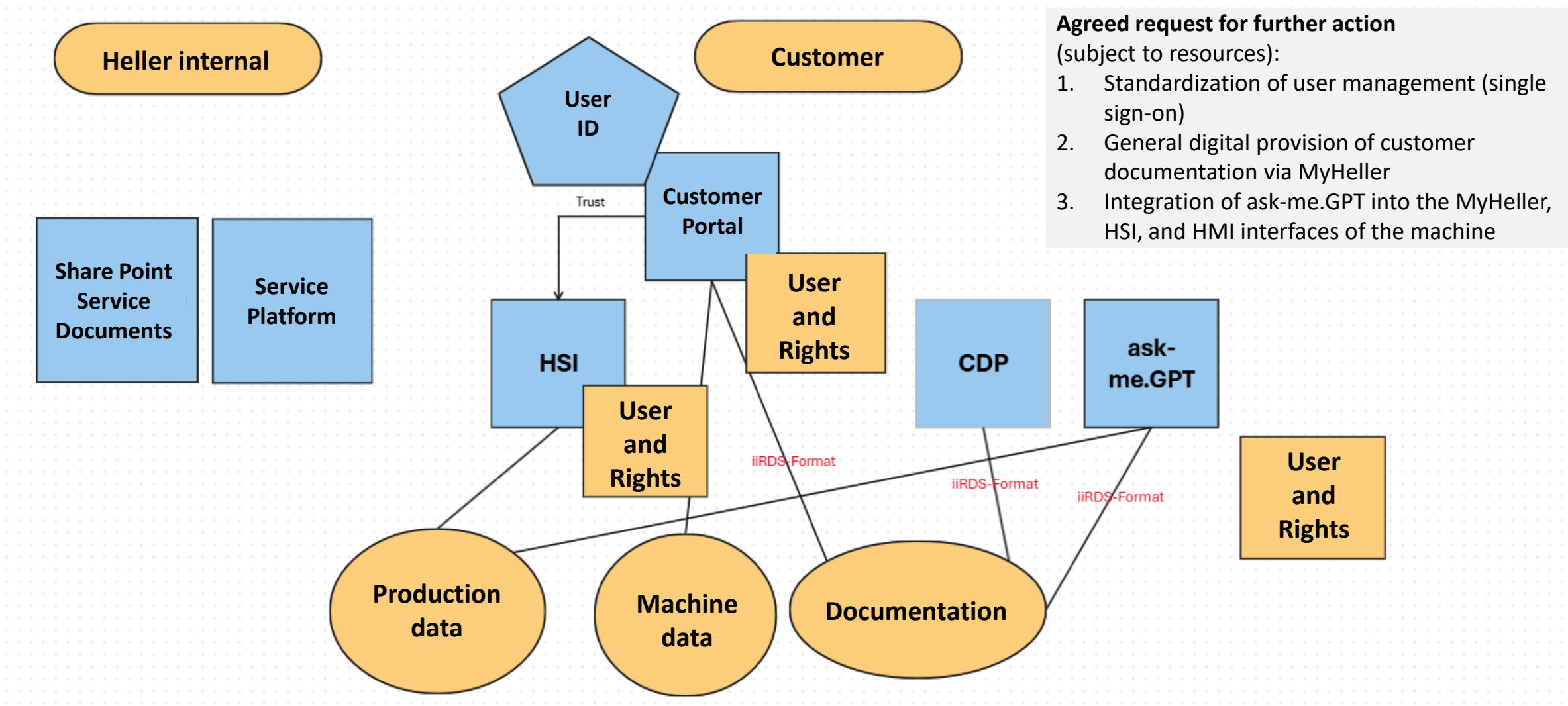
- **Reasons for standardized metadata**
 - Avoid vendor lock-in, ensure interchangeability
 - Use best practices, apply industry standards
 - Use standard APIs, e.g., for content delivery
 - Harmonize data sources across the board
- **Typical activities**
 - Map your own metadata model (mapping)
 - Define extensions (modeling)



Project Overview

Objective

Use iiRDS for LLM Chatbots as well



Optimization of Output Data

Updating metadata requirements for documentation

Metadata	CURRENT	FUTURE	Indicators	Examples
Metadatam Title	Cleaned Filename	For HELLER documents: <i>Title PDF</i>	Language code filename AI Recognition	Programming Manual, PA.000186-DE-00
Language	AI-driven	<i>For ZULI- documents: Generated Title</i>	Hybrid recognition rule-based & AI-driven	BI.001111-DE-00
HELLER Document Type	Rule-based	Hybrid recognition rule-based & AI-driven	Rule-based	Programming Manual, PA.000186-DE-00
HELLER Document Type	Rule-based	Rule-based	Rule-based	Programming Manual, PA.000186-DE-00
Control	Rule-based	Defined Assignment AI-driven	Control Labels	840D SL
iiRDS Document Type	AI-driven	Mapping of HELLER Document Type Indicators	iiRDS Document Types Labels in Document	Operation → Operator Manual
iiRDS Product Variant	Rule-based	Rule-based	HELLER Product Variants	HF3500
iiRDS Assembly Group	Rule-based	Rule-based	HELLER Assembly Groups	Work Unit
iiRDS Organization	Rule-based	HELLER AssentyGroups	HELLER Organizations	Siemens
iiRDS Activity	Rule-based	Rule-based	Rule-based	Work Unit
iiRDS Asset Number (ID)	Rule-based	Date Acronym + HELLER Activities	Asset Acronym + Identifier Length	00.750381
iiRDS Asset Number (ID)	Rule-based	Asset Acronym + Identifier Length	Asset Acronym + Identifier Length	00.750381
iiRDS Material Number (ID)	Rule-based	M-Number Acronym + [L1] M-Number Acronym + [L1]	Assembly → Assembling	M62345
iiRDS Material Number (ID)	Rule-based	M-Number Acronym + [L1]	M-Number Acronym + [L1]	M62345

Enricht metadata at project level (internal + supplier documentation)

M59095_HF3500_Messe25_DE > iiRDS-Paket erstellen

Inhalte hinzufügenMetadaten erkennenMetadaten prüfen und vergebeniiRDS-Paket generieren

Vorgaben ⓘ

M-NUMMER
(IDENTITÄT)

PRODUKTVARIANTE

SPRACHE

STEUERUNG

📁 59095

⚙️ HF 3500

🌐 Deutsch

💻 One

Alle Objekte

Suche

🔄 ⬇️ ⚙️ 🏠

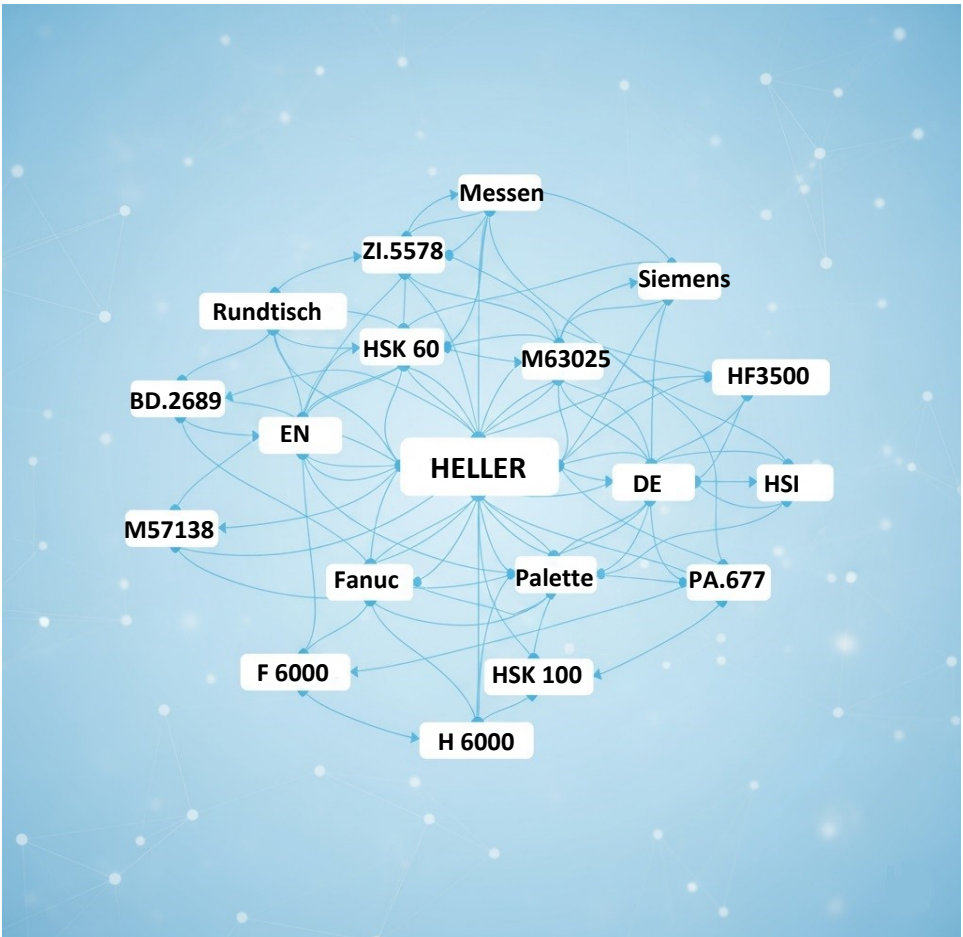
BI 001111 DE 000 00 BI AutoCal Bedienerinformation 1 1 DOKUMENT + 1 KI-BASIERT	✓
BI 001113 DE 000 00 BI Waermewachstumskorrektur Linearachsen Bedienerinformation 1 1 DOKUMENT + 1 KI-BASIERT	✓
BS 000544 DE 000 00 BI Technologiehandbuch Fraesen Formenbau Programmieranleitung CNC 1 1 DOKUMENT	✓
BS 000549 DE 000 00 BI Funktionshandbuch Transformationen Bedienungsanleitung Steuerung 1 1 DOKUMENT + 1 KI-BASIERT	✓
BS 000550 DE 000 00 BI Bedienhandbuch Drehen Bedienungsanleitung Steuerung 1 1 DOKUMENT + 2 KI-BASIERT	✓
BS 000553 DE 000 00 BI Einfacher Fraesen mit ShopMill Bedienungsanleitung Steuerung 1 1 DOKUMENT + 1 KI-BASIERT	✓
BS 000560 DE 000 00 BI Bedienhandbuch SINUMERIK ONE Bedienungsanleitung Steuerung 1 1 DOKUMENT + 1 KI-BASIERT	✓
BS 000561 DE 000 00 BI Diagnosehandbuch Alarme SINUMERIK ONE Bedienungsanleitung Steuerung 1 1 DOKUMENT + 1 KI-BASIERT	✓
BS 000562 DE 000 00 BI Programmierhandbuch SINUMERIK ONE Bedienungsanleitung Steuerung 1 1 DOKUMENT + 1 KI-BASIERT	✓
BS 000563 DE 000 00 BI Programmierhandbuch Messzyklen Bedienungsanleitung Steuerung 1 1 DOKUMENT + 1 KI-BASIERT	✓
HB 000409 DE 000 03 BI 7 fach Medienschnittstelle Vorrichtungshandbuch 2 2 DOKUMENT + 2 KI-BASIERT	✓
IA 005779 DE 000 00 BI HF 3500 Gen2 Kette80 HSK63 Sin Instandhaltungsanleitung 2 2 DOKUMENT + 1 KI-BASIERT	✓

Enrich metadata with documentation (internal + supplier documentation)



iiRDS as an Information Booster for Chunking

iiRDS as part of the chunking strategy and for distinguishing semantic proximity



Chatbots with iiRDS



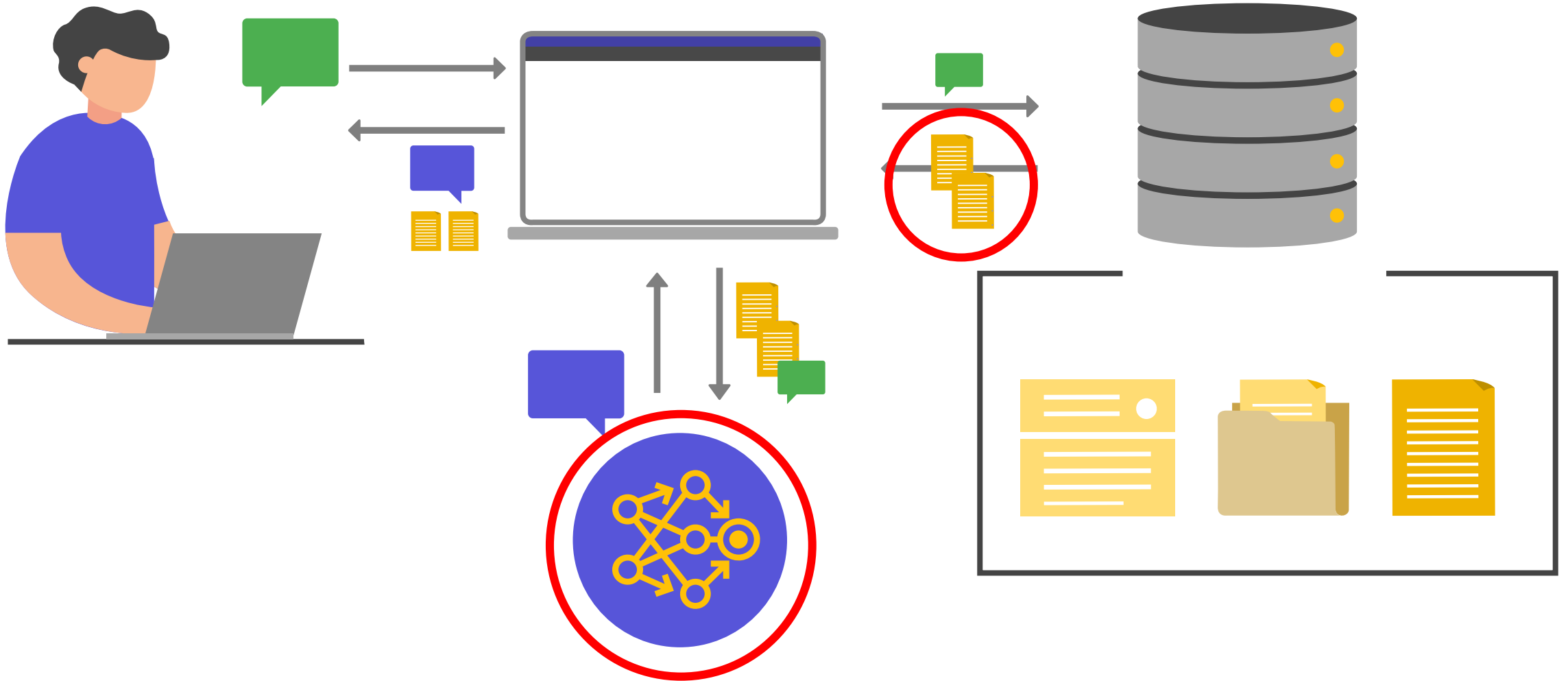
Accuracy



Correctness



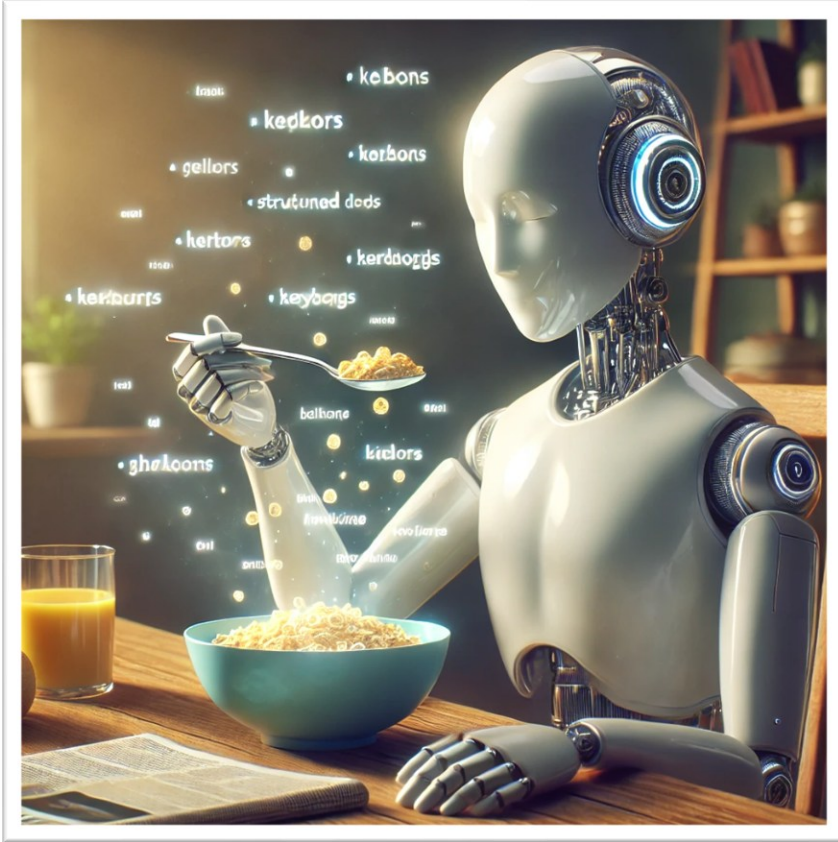
Traceability



What are the advantages of RAG technology in the context of generative AI?

- With the help of RAG technology, an LLM can be applied to company-specific knowledge/documents/systems and questions can be asked of this pool of information.
- The LLM has access to information that may be more up-to-date than the data used to train the LLM.
- The data in the RAG architecture's knowledge repository can be continuously updated without significant cost.
- The RAG knowledge repository can contain data that is more context-specific than that in a generalized LLM.
- The source of the information in the RAG vector database can be identified. And since the data sources are known, incorrect information in the RAG can be corrected or deleted. (Whiteboxing, traceability to the original source)
- RAG improves the quality of generative AI

Chatbots consume content differently than humans do.




- **The target audience for the content is the chatbot, not the user**
- A sequential context as found in documents is not relevant or available
- The sources must be verified, linked, and as homogeneous as possible
- Structuring, contextualization, and optimization are required

Typical Vulnerabilities: Hallucinations

Hallucinations often go unnoticed, but can be critical in the context of technical information.

Wie kann ich in plusmeta ein neues Metadatum konfigurieren?

 In plusmeta lässt sich ein neues Metadatum in der Regel über die Admin-Oberfläche konfigurieren. Der Prozess sieht grundsätzlich so aus:

1. Anmeldung und Zugriff auf den Konfigurationsbereich

- Melden Sie sich bei plusmeta mit einem Benutzerkonto an, das über Admin- oder Konfigurationsrechte verfügt.
- Navigieren Sie zum Bereich für die Metadatenverwaltung, der oft als „Metadaten-Editor“ oder „Konfiguration“ bezeichnet wird.

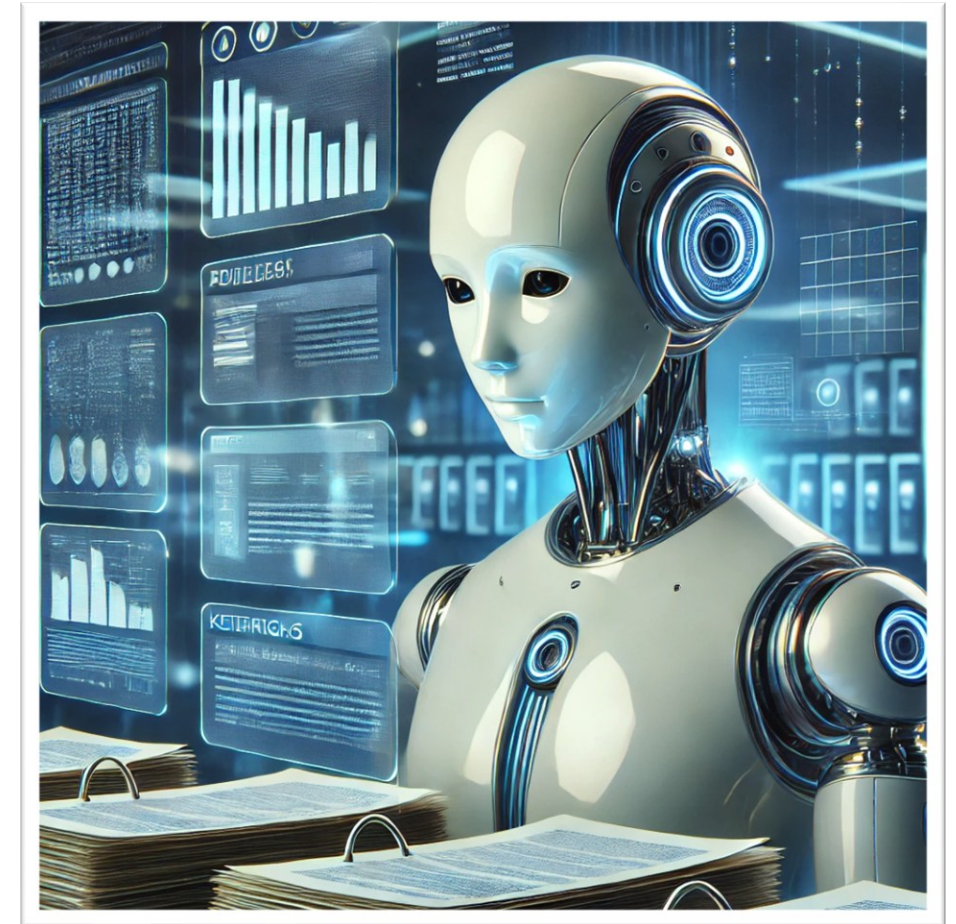
2. Erstellen eines neuen Metadatums

- Klicken Sie auf die Option zum Hinzufügen eines neuen Metadatums.
- Geben Sie dem Metadatum einen **Namen** (z.B. „Veröffentlichungsdatum“ oder „Dokumenttyp“) und, falls gewünscht, eine **Beschreibung**. Dies erleichtert die spätere Verwaltung und das Verständnis des Metadatums für andere Benutzer.
- Definieren Sie einen **Typ** für das Metadatum:
 - **Text**: Freitext-Eingaben
 - **Datum**: Eingabe im Datumsformat
 - **Auswahlfeld**: Eingabe über vordefinierte Auswahlmöglichkeiten
 - **Zahl**: Für numerische Werte
 - **Boolesch**: Ja/Nein-Feld

Role of Metadata & Structure

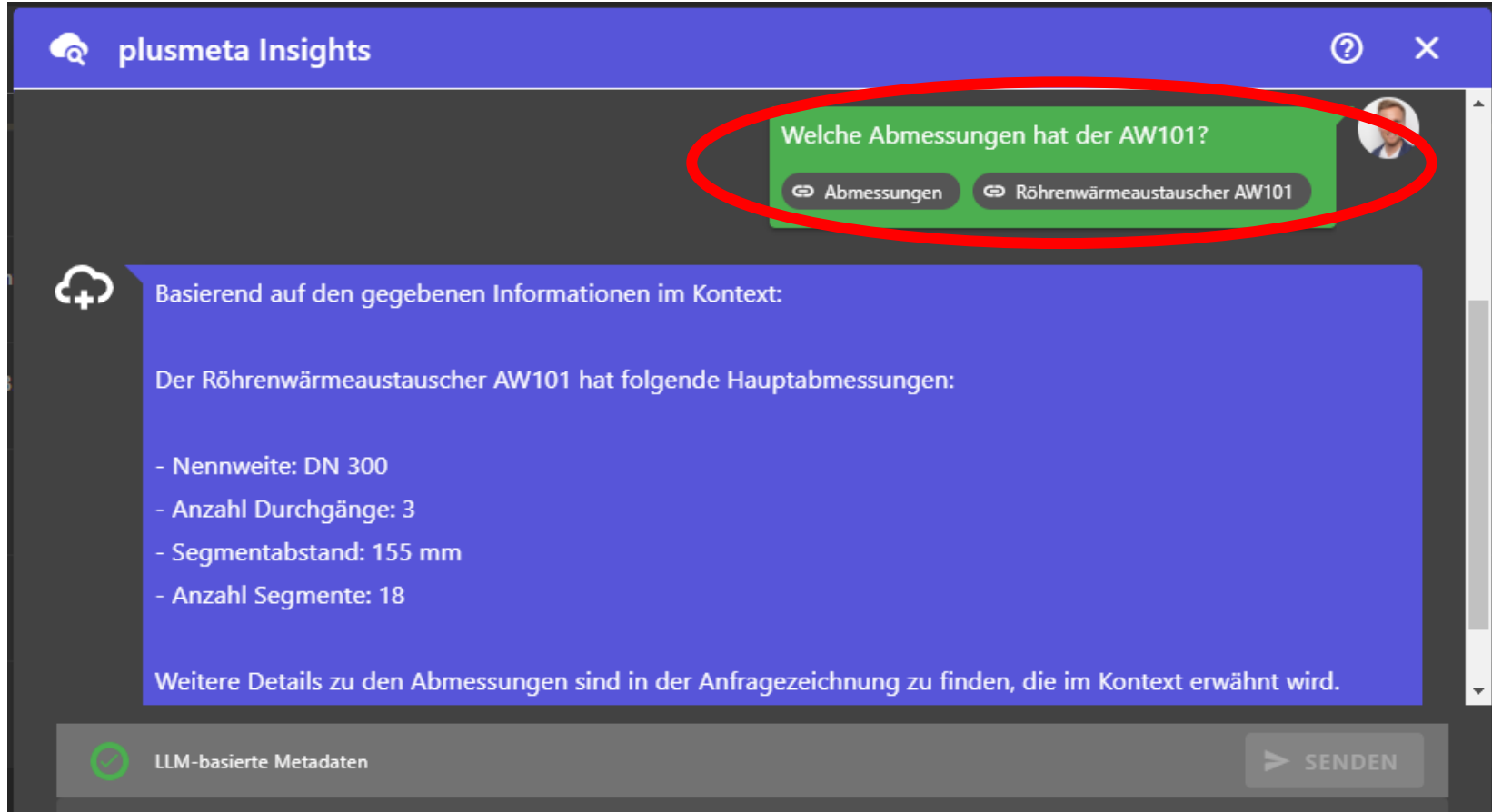
The principles of intelligent information also apply to chatbots.

- **Structure** helps chatbots understand content more easily.
- **Metadata** enables precise differentiation (technical data, product variants, etc.).
- **Semantic tagging** assigns additional meaning.



Advantages of iiRDS

- Structure & Standardization
 - iRDS offers a **uniform, machine-readable structure** for technical content.
 - **Interoperable** across systems and manufacturers – ideal for heterogeneous data sources.
- Basis for RAG Architectures
 - iiRDS packages form **structured knowledge sources** for the retrieval part
 - Reduces **hallucinations** through verified content sources
- Metadata
 - Metadata provides **precise thematic and functional context**
 - **Better relevance assessment** of content in the retrieval process
- Future-proofing & reuse
 - Already **established industry standard**
 - Promotes **content reuse** in a wide variety of use cases (portal, service, chatbot)
 - Investment in iiRDS pays off **across multiple use cases**



The screenshot displays the 'plusmeta Insights' chat interface. At the top, a blue header bar contains the 'plusmeta Insights' logo and a search icon. Below the header, a green chat bubble contains the question 'Welche Abmessungen hat der AW101?'. This bubble is circled in red. Below the question, two buttons are visible: 'Abmessungen' and 'Röhrenwärmeaustauscher AW101'. The answer is provided in a blue chat bubble, which begins with 'Basierend auf den gegebenen Informationen im Kontext:' and lists the main dimensions of the AW101 heat exchanger. The answer is preceded by a plusmeta logo. At the bottom of the interface, a grey bar shows a green checkmark icon, the text 'LLM-basierte Metadaten', and a 'SENDEN' button.

plusmeta Insights

Welche Abmessungen hat der AW101?

Abmessungen Röhrenwärmeaustauscher AW101

Basierend auf den gegebenen Informationen im Kontext:

Der Röhrenwärmeaustauscher AW101 hat folgende Hauptabmessungen:

- Nennweite: DN 300
- Anzahl Durchgänge: 3
- Segmentabstand: 155 mm
- Anzahl Segmente: 18


Weitere Details zu den Abmessungen sind in der Anfragezeichnung zu finden, die im Kontext erwähnt wird.

LLM-basierte Metadaten SENDEN


Quanos


AI Assistant


Suchen





DE






















**Ich bekomme Fehlermeldung 64.##. 323.##. 1087 Was soll ich tun?**
1.11.2024, 15:30




Basierend auf der Fehlermeldung 64.##. 323.##. 1087 handelt es sich um eine Störung des Frequenzumrichters am Abführband. Hier sind die empfohlenen Schritte:

1. Überprüfen Sie die Fehleranzeige des entsprechenden Frequenzumrichters.
2. Konsultieren Sie die Betriebsanleitung des betreffenden Frequenzumrichters für weitere Informationen und Anweisungen zur Behebung des Problems.

Diese Schritte sollten Ihnen helfen, die Ursache der Störung zu identifizieren und zu beheben.

Quellen:


DE


64.##. 323.##. 1087
in Betriebsanleitung

Sprache	Produktlebenszyklus	Informationstyp
Deutsch	Fehlerdiagnose	Störungsbehebung
Geändert		
11.10.2024, 08:57:53		

Suchkontext

Ändern

T 450 Traysealer



Modell

T 450

Produkttyp

Vollautomatisch

Produkt öffnen

plusmeta GmbH

43

Initial Results

Initial Results

iiRDS creates mapping (without metadata)

New Chat

Agents

manuals

Chats

Alt+C

Today

Welche Schläuche sind in der HF350...

Doku_Test

Today

You 10:58 AM

Welche Schläuche sind in der HF3500 verbaut?

ASK.me — manuals 10:58 AM

Es konnten keine Informationen zu den in der HF3500 verbauten Schläuchen gefunden werden. Bitte überprüfen Sie die Dokumentation oder wenden Sie sich an den zuständigen HELLER-Service.

Initial Results

iiRDS creates mapping (without metadata)

ASK.me

New Chat

Agents

manuals

production.data HSI

machine.status PLUS

Chats

Alt+C

Q

Welche Informationen zum Öl gibt es ...

Was war der letzte Alarm bei M57906?

Welche Informationen zum Öl gibt es ...

Welches Öl wird für M57906 benötigt?

Welches Öl wird für M57906 benötigt?

Settings

EMO_2025

Today

You 4:48 PM

Welche Schläuche sind in der HF3500 verbaut?

ASK.me — manuals 4:48 PM

Die HF3500 Maschine verwendet eine Vielzahl von Schläuchen, die für hydraulische Anwendungen konzipiert sind und den Normen DIN 20066 und EN857 entsprechen. Hier sind die relevanten Informationen:

- **Schlauchtypen und Spezifikationen:**
 - DIN 20066 2SC-10-[EN857]-NN-2530-P Parker D462CACA12126-2530 [1-Page 47-51](#).
 - DIN 20066 2SC-10-[EN857]-NN-2570-P Parker D462CACA12126-2570 [1-Page 47-51](#).
 - DIN 20066 2SC-8-[EN857]-NN-2530-P Parker D462CACA10105-2530 [1-Page 47-51](#).
 - DIN 20066 2SC-8-[EN857]-NN-2570-P Parker D462CACA10105-2570 [1-Page 47-51](#).
 - DIN 20066 2SC-19-[EN857]-NN-1150-P Parker D462CACF222212-1150 [1-Page 51-55](#).
 - DIN 20066 2SC-10-[EN857]-NN-700-P Parker D462CACA12126-700 [1-Page 51-55](#).
 - DIN 20066 2SC-16-[EN857]-NN-1100-P Parker D462CACA181810-1100 [1-Page 51-55](#).
- **Materialien und Hersteller:**
 - Die Schläuche stammen hauptsächlich von Parker und Hydac, zwei bekannten Herstellern von Hydraulikkomponenten [1-Page 47-51](#), [1-Page 51-55](#).

Falls weitere Details zu spezifischen Schlauchtypen oder deren Einsatz in der HF3500 benötigt werden, lassen Sie es mich wissen.

manuals X

Send a message to ASK.me...

AI-generated content may be inaccurate.

Initial Results

iiRDS creates clarity (ohne Metadaten)

Show me the instructions for the planetary gearbox for the machine M59403

 ASK.me — manuals 11:49 AM



I couldn't find any relevant information regarding the planetary gearbox for the machine M59403. If you have additional details or can clarify your query, I will gladly assist further.

You 11:54 AM

Show me the instructions for the planetary gearbox

 ASK.me — manuals 11:54 AM

Instructions for Planetary Gearbox

Below are the summarized instructions for the installation, operation, and maintenance of planetary gearboxes, along with relevant illustrations:

Safety Precautions

Customer references:

1 - ZI.005963-DE-000-00 ZID Spielarmes Kleinplanetengetriebe Vogel_1_1 [Pages: 1-3]

2 - ZI.005963-EN-000-00 ZID Low Backlash Planetary Gearbox Vogel_1_1 [Pages: 1-3]

3 - ZI.032747-DE-000-00 ZID Getriebe Wittenstein alpha_1_1 [Pages: 1-3, 15-19]

Initial Results

iiRDS creates clarity (mit Metadaten)

Show me the instructions for the planetary gearbox for the machine M59403

ASK.me — manuals 11:43 AM

Instructions for the Planetary Gearbox for Machine M59403

Mounting Instructions:

1. General Guidelines:

- Center the gearbox in the machine bed, ensuring the identification plate remains readable.
- Apply threadlocker [e.g., Loctite® 243] to fastening screws.
- Use specified screw sizes and tightening torques as outlined in the manual.

2. Mounting with Through-Holes:

- For reverse centering on the motor side, refer to the manual "Reverse centering device for motor-side installation" (doc. no. 2022-D063062).
- Avoid washers; fasten the gearbox using screws through the through-holes.

3. Mounting with Slotted Holes:

- Use only washers included with the delivery.
- Adjust the gearing backlash using slotted holes and lateral guides. Refer to the "alpha rack pinion system" manual (doc. no. 2022-D001333) for details.

4. Components Mounted to the Output Side:

- Avoid force or hammering when mounting parts onto the output shaft or flange.
- Ensure axial forces on the output bearing do not exceed permissible limits.

Operating Instructions:

1. Operating Without a Motor:

- Use a hand wheel to set and align the output pinion on the toothed rack. Avoid tilting or bending the clamping hub.

2. Safety Precautions:

- Avoid forceful assembly to prevent damage.
- Follow safety instructions for threadlocker during installation.

3. Optional Features:

- For liquid-cooled adapter plates, refer to the manual "Cooled adapter plate" (doc. no. 2022-D063351).
- Use cylinder pins for pinning the gearbox to the machine.

Additional Notes:

- Images provided illustrate key aspects such as mounting the gearbox, aligning the output pinion, and safety precautions. These visuals complement the instructions for proper installation and operation.

For further details, refer to the manuals mentioned in the instructions.

Heller references:

- 1 - Z1.032747-EN-000-00 Z10 Gear unit Wittenstein alpha_1_1.pdf (Pages: 16-18)

Outlook & Vision

Outlook and Vision

Current findings

1. It is very time-consuming and also cost-intensive.
 - Testing different RAG chunking strategies for different document types is very time-consuming.
 - Integrating customer-specific documents poses a further challenge.
 - Ingesting customer documentation currently costs around €40.
2. It is a legal challenge.
 - How binding must the applications be?
 - To what extent must the application be tested internally before it is released to the customer?
 - Review and consideration of possible legal consequences, including for the US market.
3. It is the future and there is no way around it.
 - Very high interest and demand on the part of customers
 - Information consumption is developing in this direction
 - Metadata plays a central role
 - iiRDS as a standardized metadata model provides the perfect foundation

Outlook and Vision

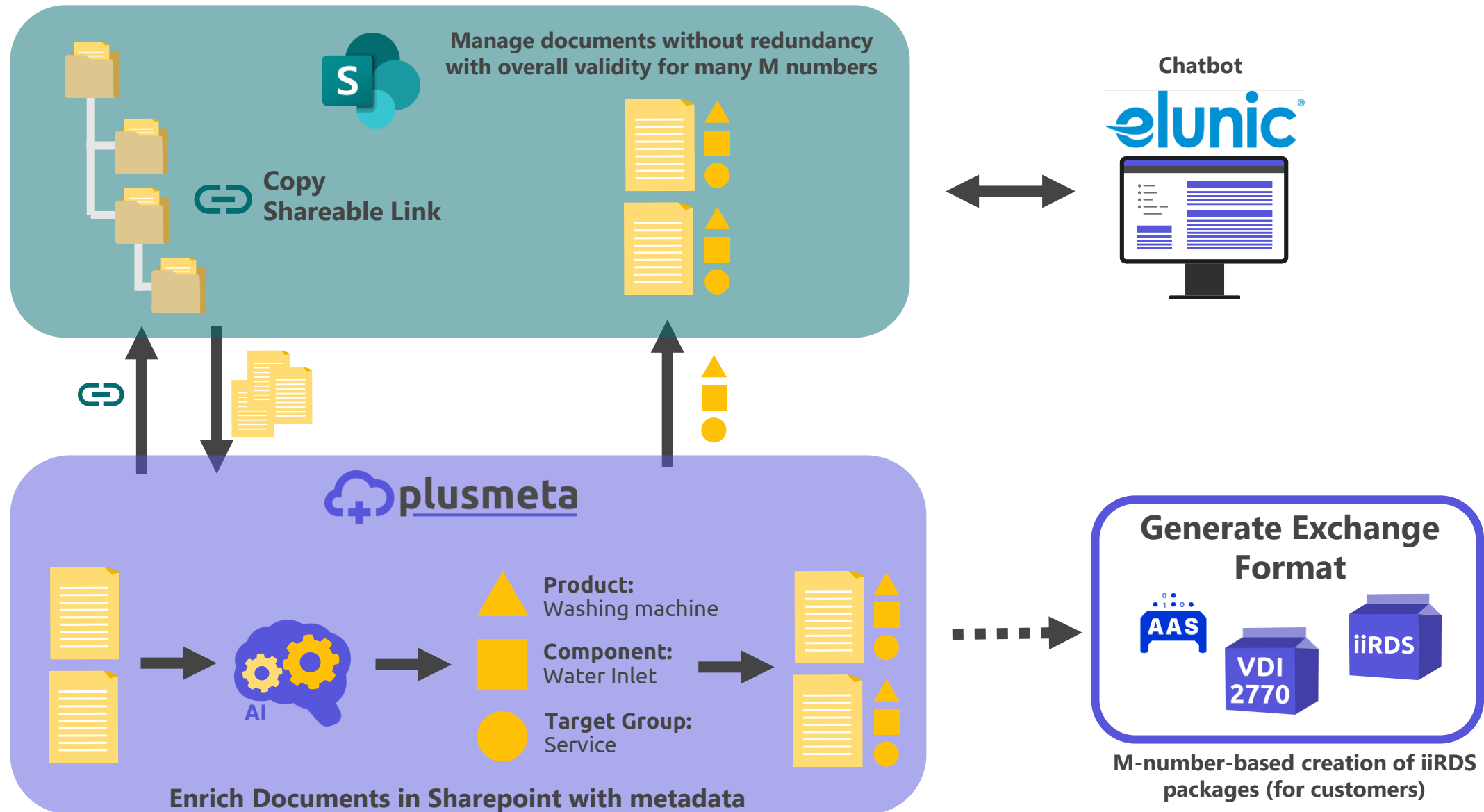
To-dos and still to be resolved...

- _ Documents should only be ingested once (no redundant data storage, reduction of costs)
- _ Assignment/enrichment/updating of metadata should be carried out centrally, e.g. via Sharepoint
- _ Transfer of the specified metadata from the source language to other languages
- _ Receive documents from suppliers in iiRDS format
- _ Visualization of the knowledge network, use of additional software?
- _ Integration of customer documents without metadata on the platform

Optimization in data preparation, packaging, connection

- Optimization of metadata recognition based on rules, AI, and mapping of existing metadata
- PoC: Semi-automated package creation with manual data upload and download for pilot customers
 - Documents are manually uploaded to plusmeta
 - Metadata is assigned based on AI and iiRDS packages are generated semi-automatically
 - iiRDS packages are manually exported from plusmeta and transferred directly to Elunic via a programmed import route
- Expansion stage 1: Interface between SAP and plusmeta (-> transfer of documents + metadata from SAP to plusmeta)
- Expansion stage 2: Connection to the target system: iiRDS packages transferred directly to Elunic via interface
- Expansion stage 3: Full automation of the entire process

SharePoint Integration + Compiling Documentation at Heller



Q&A

Do you have any questions?

HELLER Lösungen: **Wissen, wie es geht.**