20 YEARS ANNIVERSARY

What's new in the Workbench



Menno Gülpers



Gerhard de Graaf



Ronald Heller

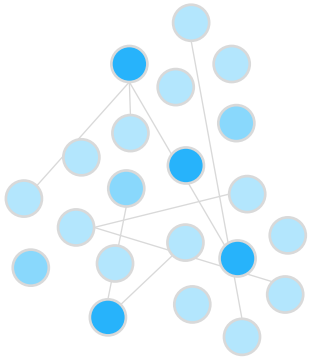
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Workbench – the last 3 years

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The specific problem we solve

Rules and operations remain disconnected and “lost in translation”



Rules, regulation, and official sources

How as a business can I interpret regulations transparently, determine which ones apply to me, stay up-to-date with changes?

How as a regulator can I assess and improve regulatory quality and reduce regulatory burden?

Disconnected silos



Your organizational “operating model”

How do I assess the impact of regulatory changes on my specific operational reality (organization and processes) and use cases and ensure we stay aligned and compliant?

How as an executive ministry or agency do I ensure more effective business- and citizen-friendly services?

Disconnected silos



Your business operations

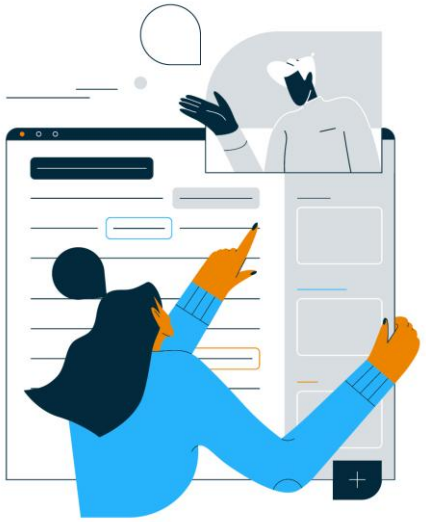
How do I ensure cost-effective day-to-day compliance across my organization and stay out of trouble?

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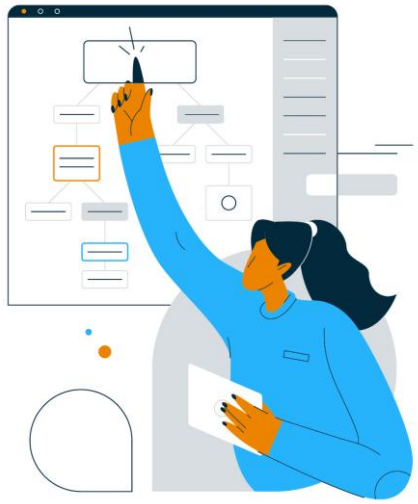
Be Informed Regtech Platform

Navigating the journey from regulation to application



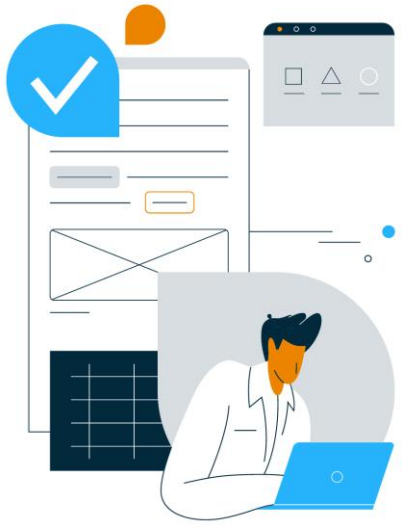
Interpret

Our Workbench helps to take control of your compliance sources by interpreting and translating regulations into machine-readable formats. Ensuring complete traceability to the origins of regulations.



Model

With our Studios you harness the potential of interpretation and rule-based services. Develop models defining your business, gaining profound insights for compliant operations.



Enforce

In our Runtime, we combine the Workbench's foundational elements, the insights from Modeling, and specific domain knowledge to create end-to-end compliant applications.

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Our Platform

Interpret



Workbench

Interpret sources



Work management

Annotate regulations & requirements

Interpret regulations & requirements

Discuss & review

Model



Studios

Business Modeling Studio (BMS)

Add business design



Define components

Design processes

Relate and detail

Test business rules

Application Modeling Studio (AMS)

Add application behavior



Detail behavior

Configure integrations

Preview behavior

Test behavior

Enforce



Runtime

Run compliant application



Run model-driven applications

Automatic audit trail

Secure

Robust

Curate



Documentation portal

Publish interpretations

Publish business design

Collect feedback

Fully traceable and explainable using open standards

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Translating regulations and company policies in working applications & automated compliance

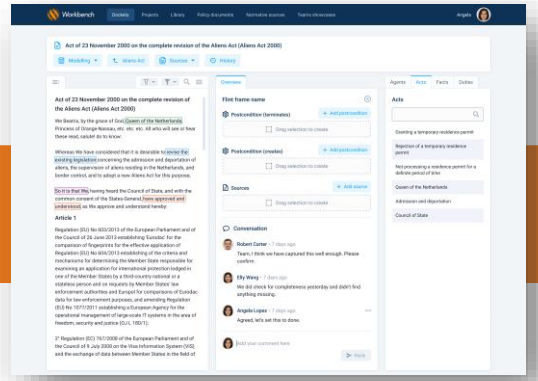
Interpret sources of norms

Add business design

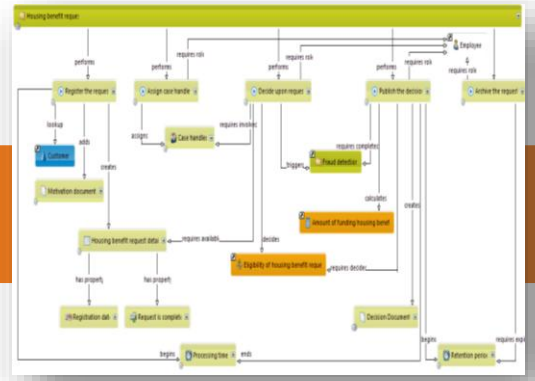
Add application behavior



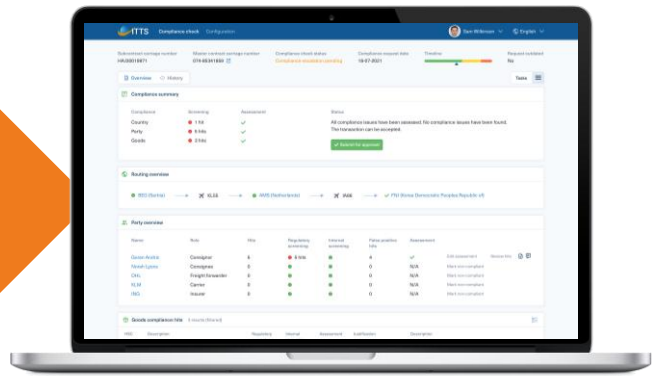
Sources



Workbench



Studio / Portal



Application

Traceable and explainable using open standards

Regulations & other sources of norms & requirements written in natural language.

Unambiguous interpretation understandable by humans, processable by computers

Executable business models plus educational content and work instructions plus specifications

Working business applications eg Permit Advisor, Permit Manager Compliance Engine

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… for large scale adoption we are working with academic and government partners to develop open standards

Legal Analysis (Wetsanalyse)

FLINT

lkif core
LKIF-Core Ontology
A core ontology of basic legal concepts

Akoma Ntoso
XML for parliamentary, legislative & judiciary documents

CEN MetaLex
Open XML Interchange Format for Legal and Legislative Resources

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Applications

- Customer journeys across policy domains
- Context aware information, forms and applications
- Efficient and compliant processes
- Enforcement of compliance
- Policy making

Intelligent services

- Navigate, query, reason or inference knowledge graph to deliver intelligent services: Virtual Advisor, Cross domain comparison, Decision, Classification

Explicit interpretation

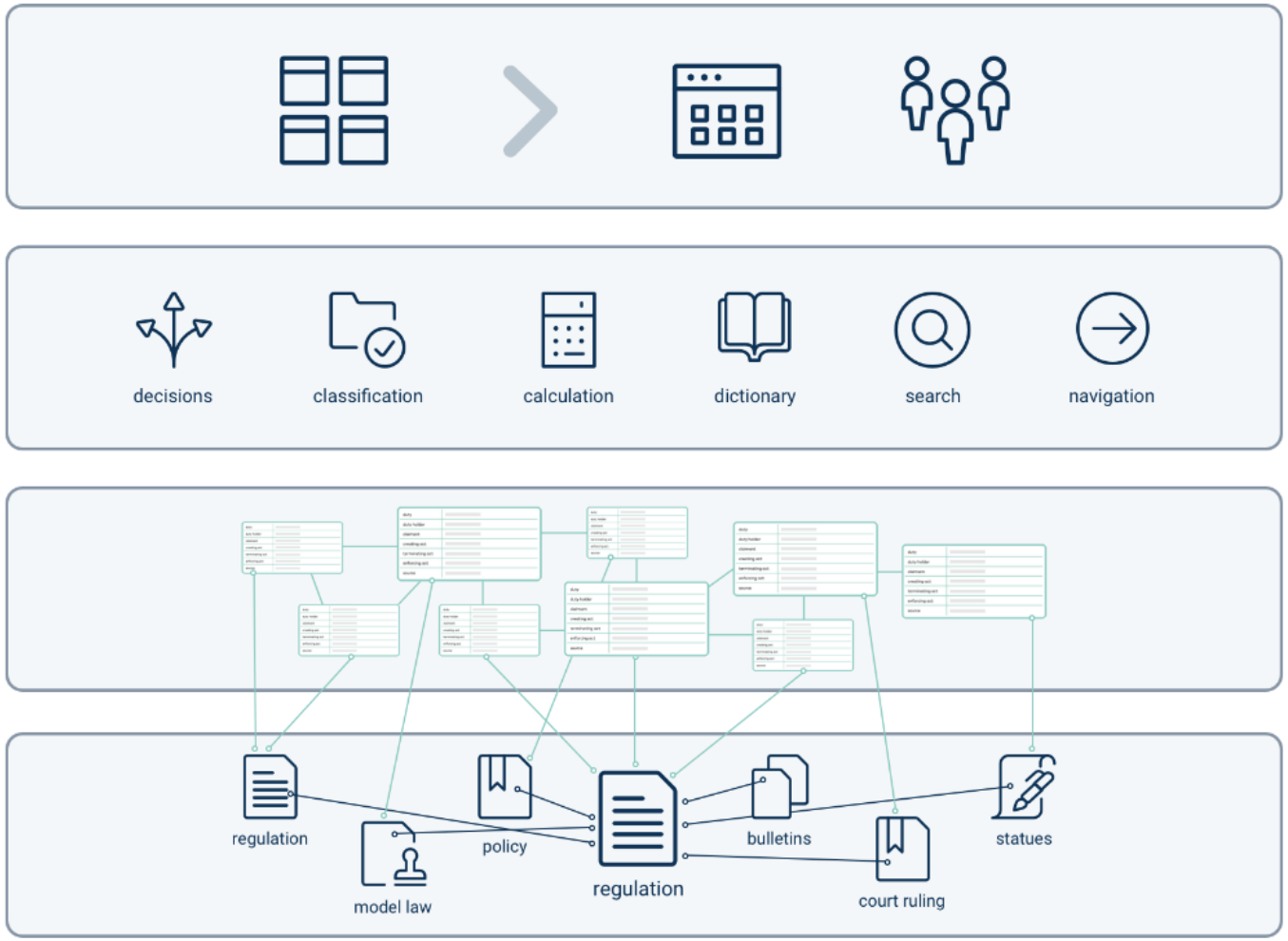
- Flint: formal language for interpretation of sources of norms (IEEE candidate)
- Act Frames, Fact Frames, Duty Frames are linked to sources of norms by the reference mechanism offered by the legal markup standard
- Supporting technology standards: JSON/LD, RDF, SPARQL

{JSON} JSON-LD

Normative sources

- Supporting technology standards: JSON/LD, RDF, SPARQL
- URI-based persistent identifiers: JuriConnect (NL)
- Supporting W3C standards: XML, XML Schema, RDF, SPARQL

USLM 2.0 XML MetaLex/CEN W3C RDF



Digital Regulatory Twin

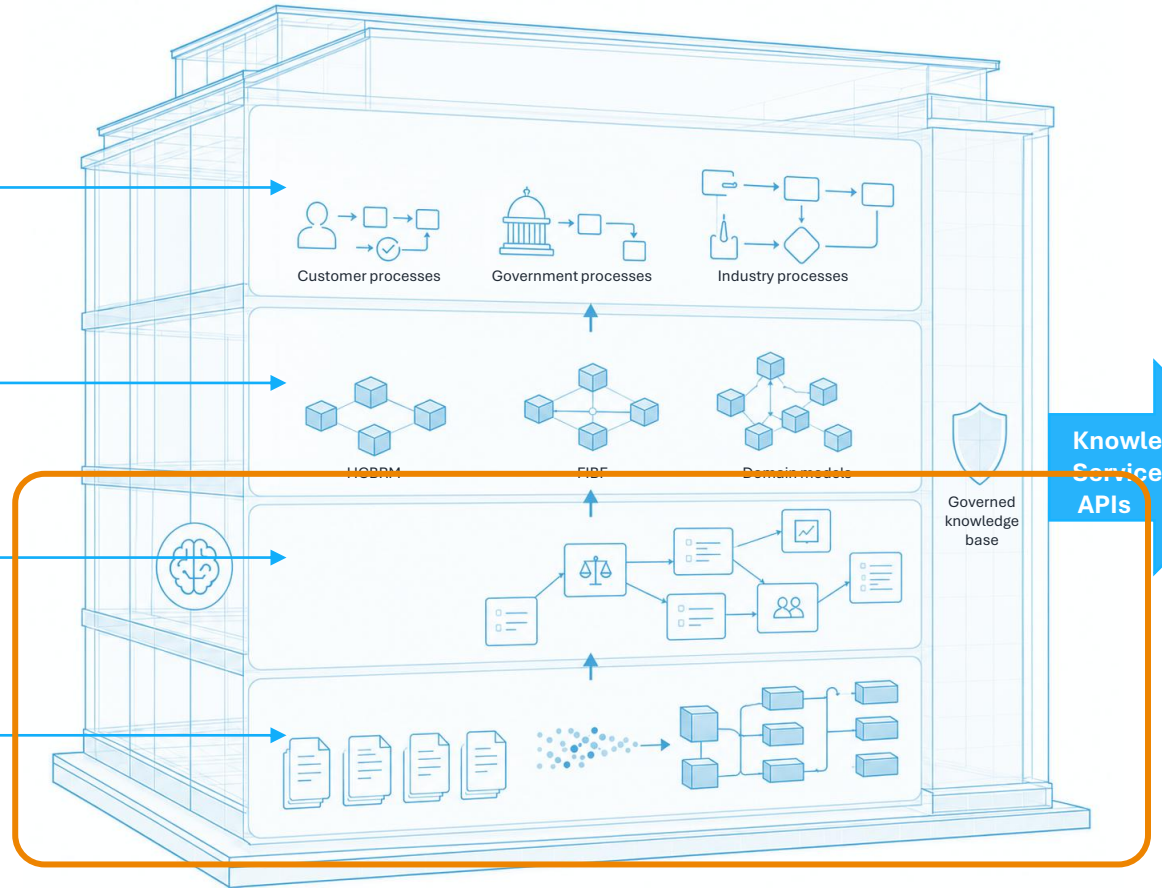
Workbench scope

4 **Execution Model**
Business operation & processes

3 **Operating Model**
Reference models

2 **Legal Model**
Legal interpretation
Governed expert knowledge

1 **Machine-readable regulations**
Structured legal content



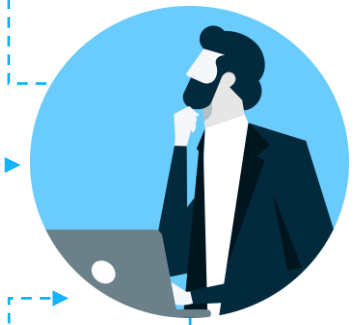
Knowledge Services / APIs

STANDARD APPLICATIONS
- Documentation Portal

CUSTOM APPLICATIONS
- Regulatory Explorer
- Compliance Assistant
- Impact Analyzer

ENTERPRISE APPLICATIONS
- AMS
- Third- party systems

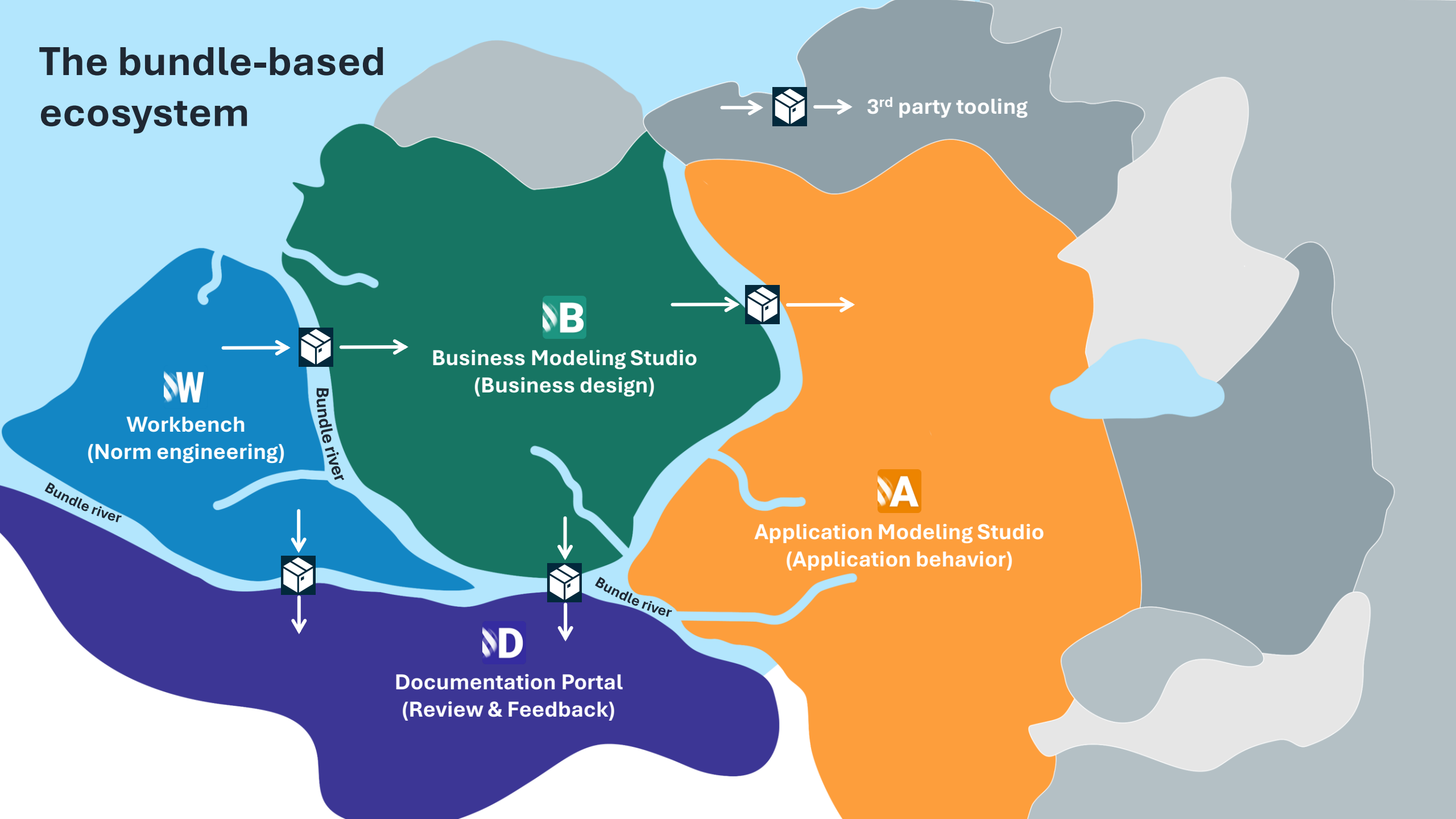
- What are my obligations?
- Which requirements apply?
- What changed?
- Why was this decision made?



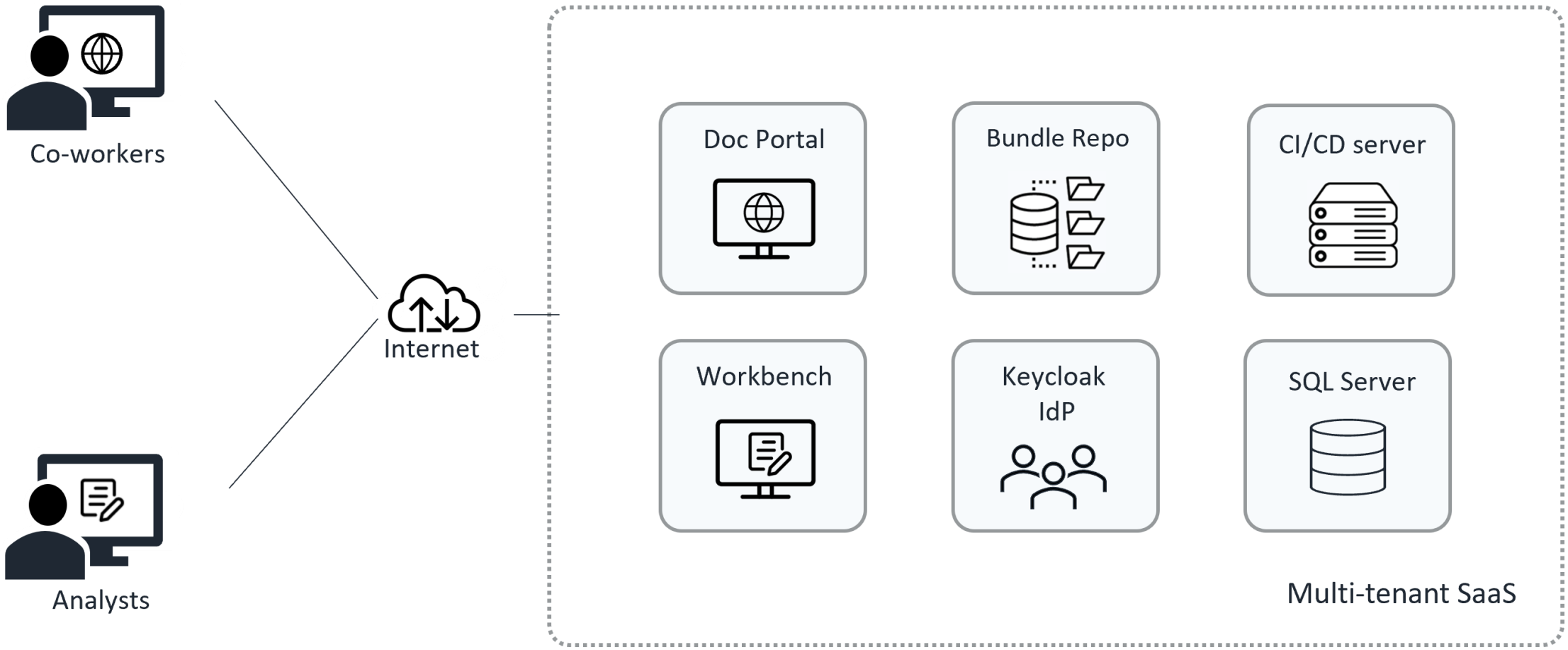
Continuous improvement through expert knowledge and AI-assisted modeling

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The bundle-based ecosystem
3rd party tooling
B
Business Modeling Studio
(Business design)
W
Workbench
(Norm engineering)
Bundle river
Bundle river
Bundle river
A
Application Modeling Studio
(Application behavior)
D
Documentation Portal
(Review & Feedback)

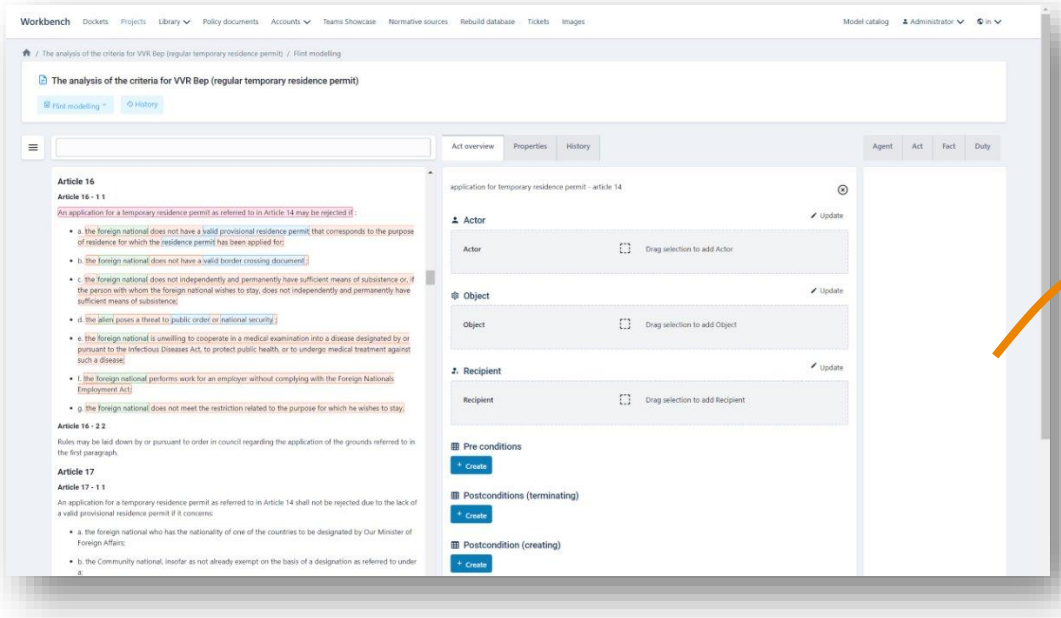
Workbench Fully Saas with SSO



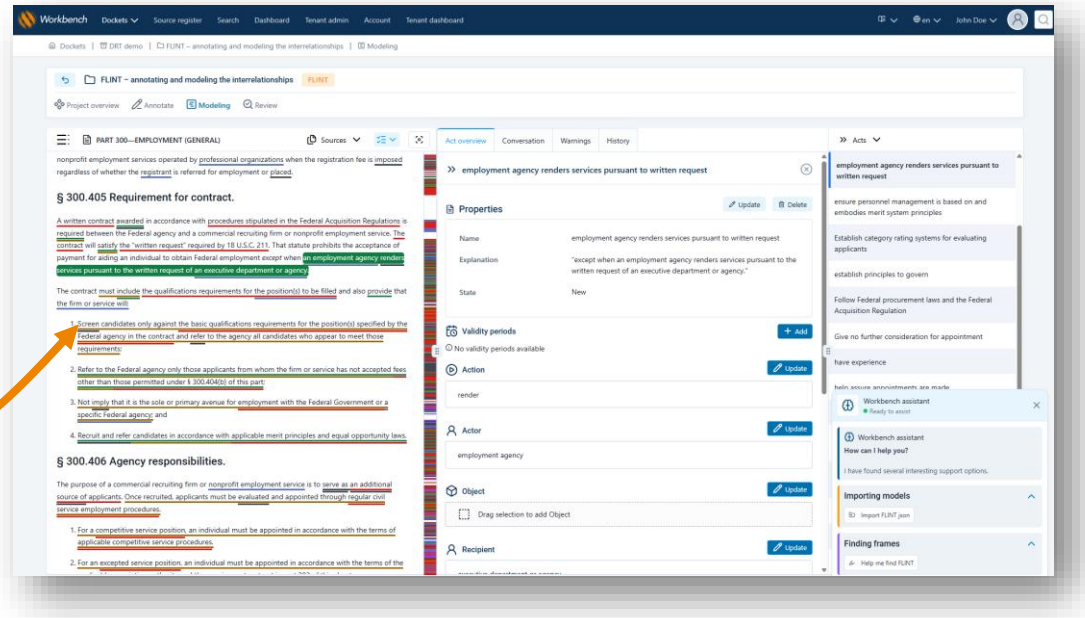
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Workbench | Our journey



2023

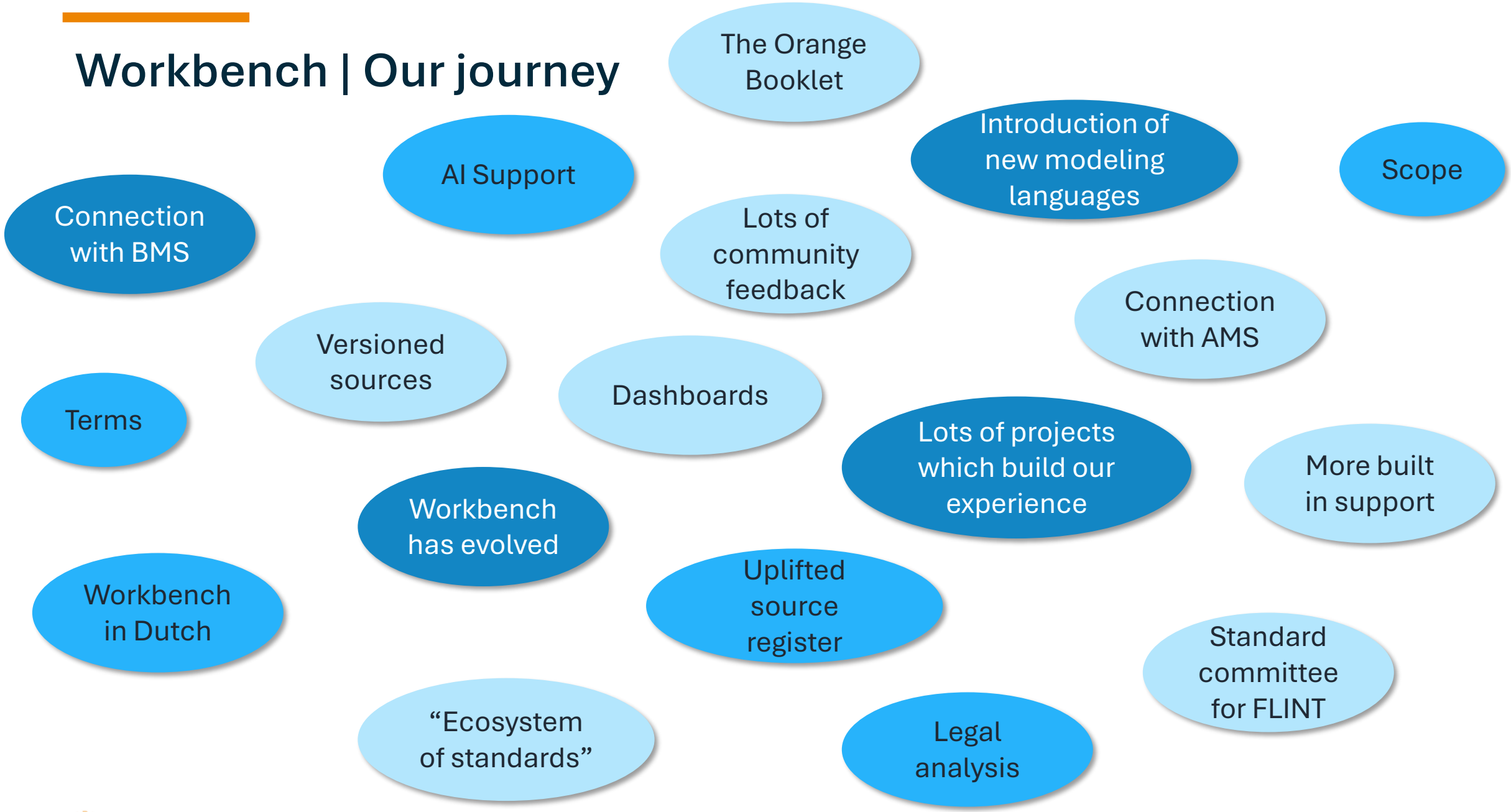


2026

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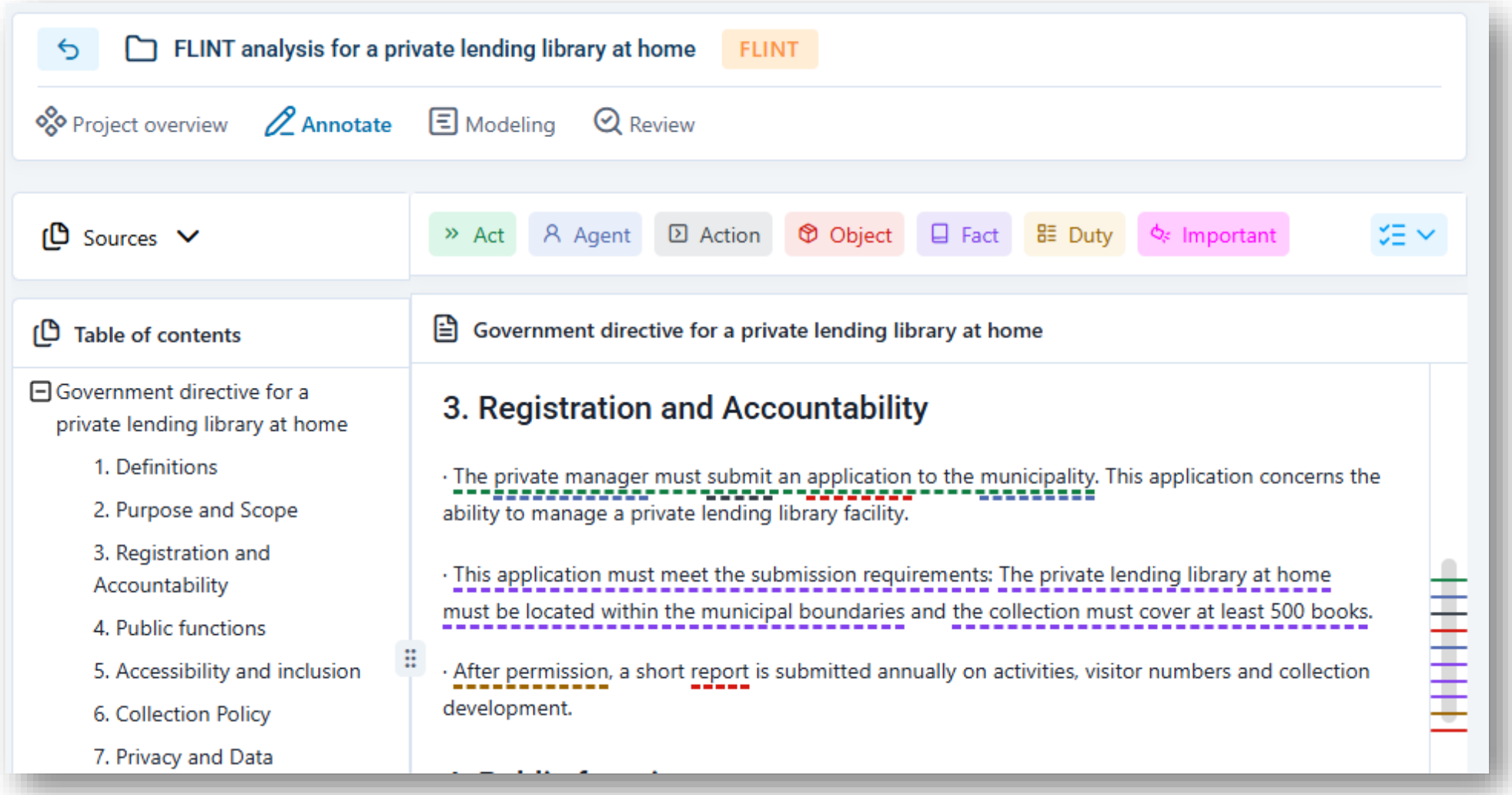
Workbench | Our journey



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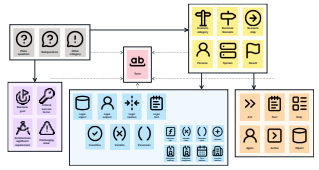
Annotations

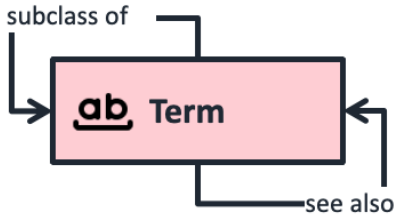


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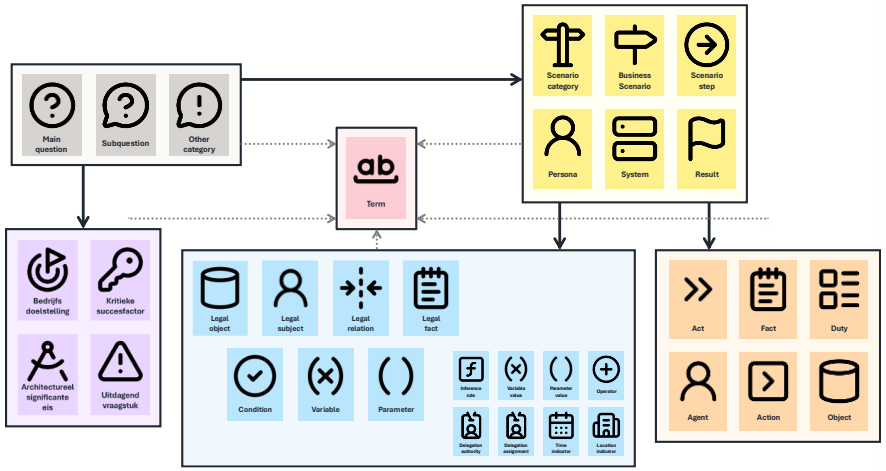
Terms

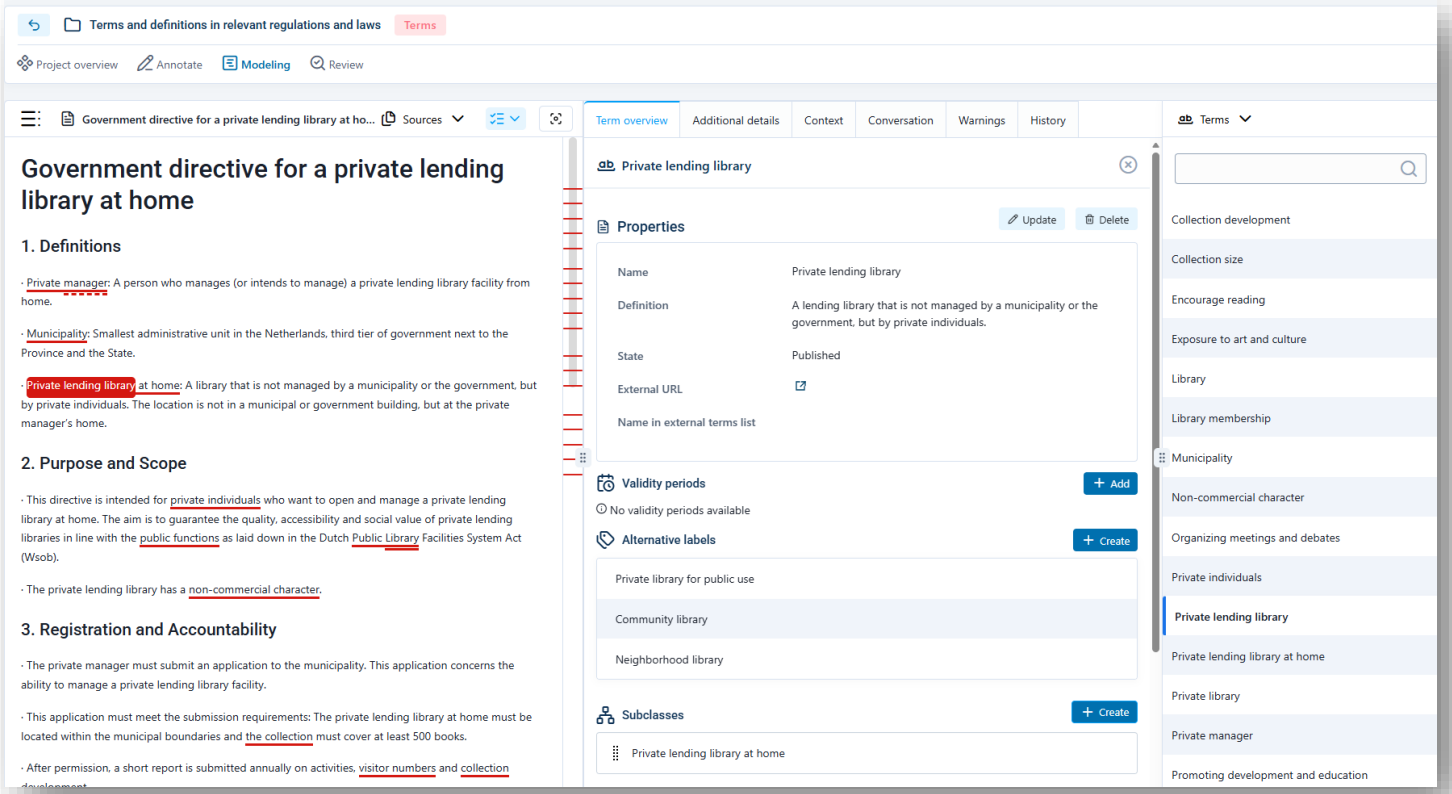
Terms





- Capture your terms and their definitions
- Initially based on SKOS
- Now adding NL-SBB "properties"
- Term references from **all** other DSL's
- A central term docket to refer to from different dockets



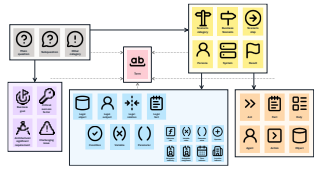


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Term references

Terms



Term overview | Additional details | Context | Conversation | Warnings | History

Grant Offer Letter

Is subclass of

Name
Terms and Conditions

Is related to frame(s)

Frame name	Frame type
Offer the grant Letter	Duty

Agent Overview | Context | Conversation | Warnings | History

Applicant

Properties — Update | Delete

Name	Applicant
Explanation	An individual or organization that formally submits a request — typically for funding, approval, or participation — in response to a call or opportunity issued by a funding organization or governing body.
State	In progress

Validity periods — + Add

No validity periods available

Related term — + Add | + Create term from frame

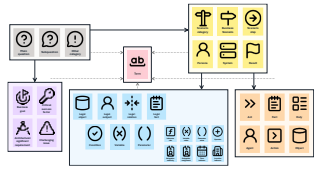
Docket name	Name	Definition
Research Grant	Amount of grant	The term "Amount of grant" refers to the total sum of money awarded to an individual, organization, or institution as part of a grant agreement. Grant...

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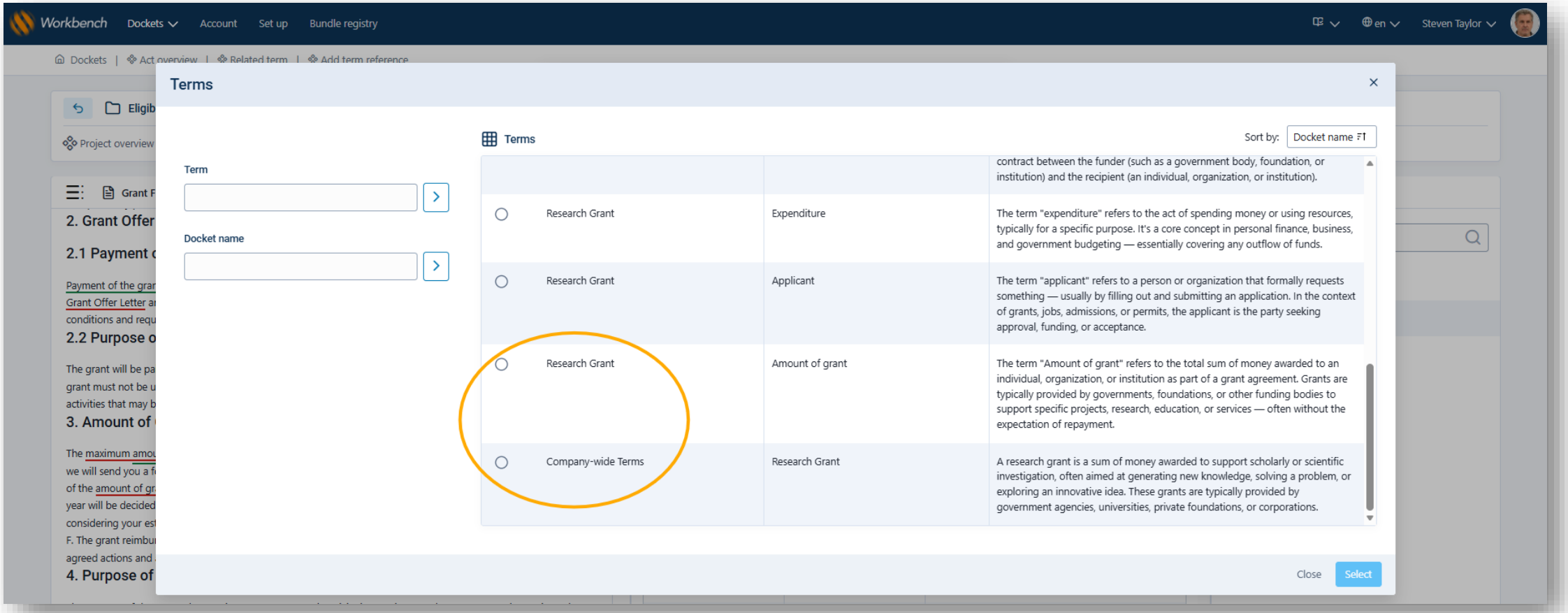
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Terms reusability

Terms



You can specify that a docket can be referenced, allowing its terms to be reused across other dockets.

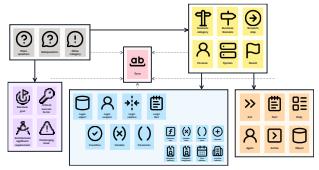


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Terms supporting NLSBB

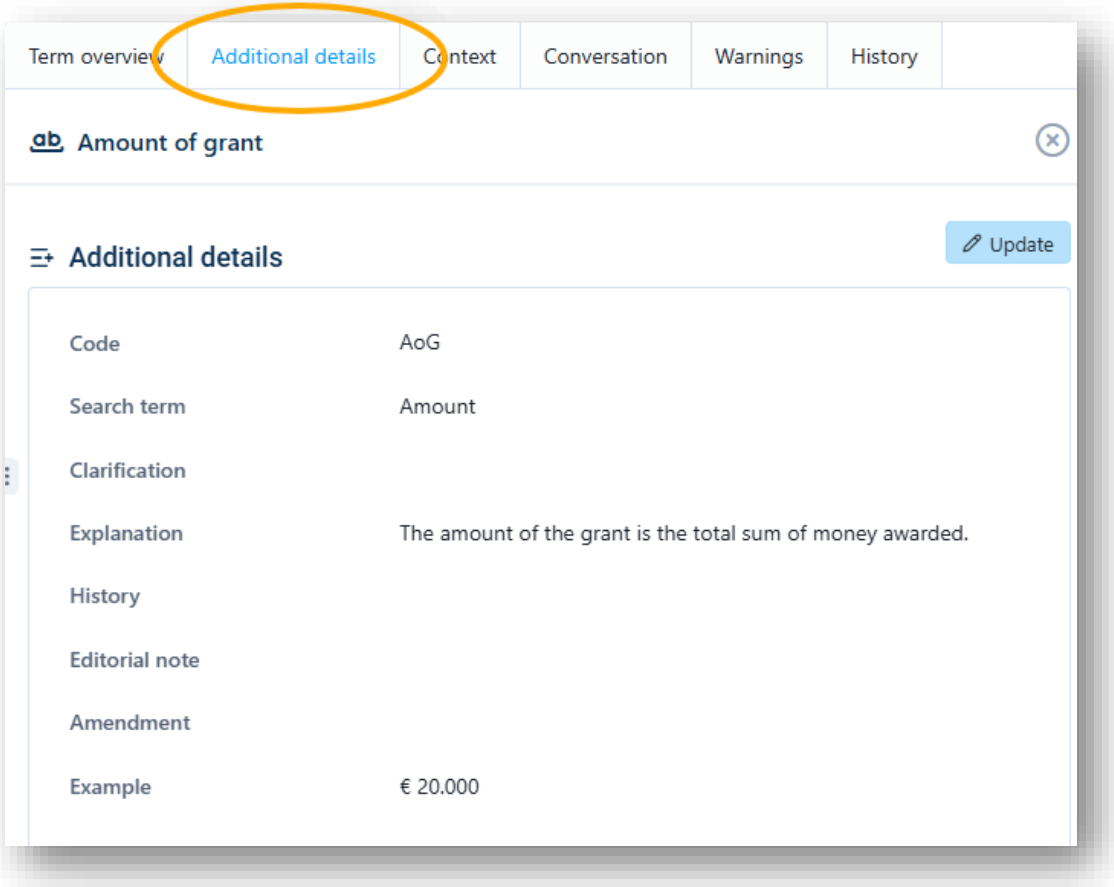
Terms



- Name
- Definition
- State
- External URL (and name in that external list)
- Code
- Search term
- Clarification
- Explanation
- History
- Editorial note
- Amendment
- Example

Terms also have:

- Alternative labels
- Subclass relations to other terms
- See also relations to other terms
- Source references



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Scope domain specific language



Main Question

Name	Description
Main question	Enter your main question here...

Subquestions + Add

Name	Description
Eigendom en de overdracht van de boeken	Hoe wordt het eigendom en de overdracht van de boeken en inventaris juridisch geregeld, bijvoorbeeld bij donaties, aankopen via Marktplaats of faillissementsverkopen?
Verplichtingen en rechten bij het lenen van boeken	Welke verplichtingen en rechten ontstaan bij het lenen van boeken, en hoe kunnen toe uitbreidingen zoals reserveringen of spelhoeken juridisch veilig worden ingevoerd?
Wettelijke kaders en interne regels	Welke wettelijke kaders en interne regels zijn relevant voor lidmaatschap, boetes, leenlimieten en leeftijdsgebonden privileges? Hoe verhouden interne reglementen zich tot bestaande wetgeving?

Other categories + Add

Name	Description
Eigendom & donaties	Juridische status van boeken, aankopen, faillissementsverkopen, donaties.
Juridische scenarios	Een juridisch scenario is een beschrijving van een praktijksituatie waarin één of meer regels uit een wet of regeling een rol spelen. Het scenario maakt zichtbaar hoe de wet werkt in de praktijk — wie er betrokken zijn, wat er gebeurt, welke handelingen worden uitgevoerd, en welke juridische gevolgen of verplichtingen daaruit voortkomen.
Uitleenvoorwaarden	Leenperiode, verlengingen, boetes, maximale aantallen boeken.

Main question overview | Conversation | History

What is involved when a private individual wants to open a lending library at their home?

Properties Update

Name	What is involved when a private individual wants to open a lending library at their home?
Description	In this docket we want to analyze what is involved when a private individual wants to open a private lending library at home. Is this allowed? Are there guidelines or directives? Are permits needed? Et cetera.
State	Published

Documents + Add

Name	Used version	Latest version	Reason for adding this document
Government directive for a private lending library at home	0.1.3	0.1.3	Rules by the government that must be met

Local sources + Add

Name	Document type	Reason for adding this document
Riet and Frits open a private lending library at home	Casus	A practical example to clarify the case

Related term + Add

Docket name	Name	Definition
Opening a private lending library	Private lending library at home	A lending library that is not managed by a municipality or

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Scope documents



Sources and documents in this Scope project

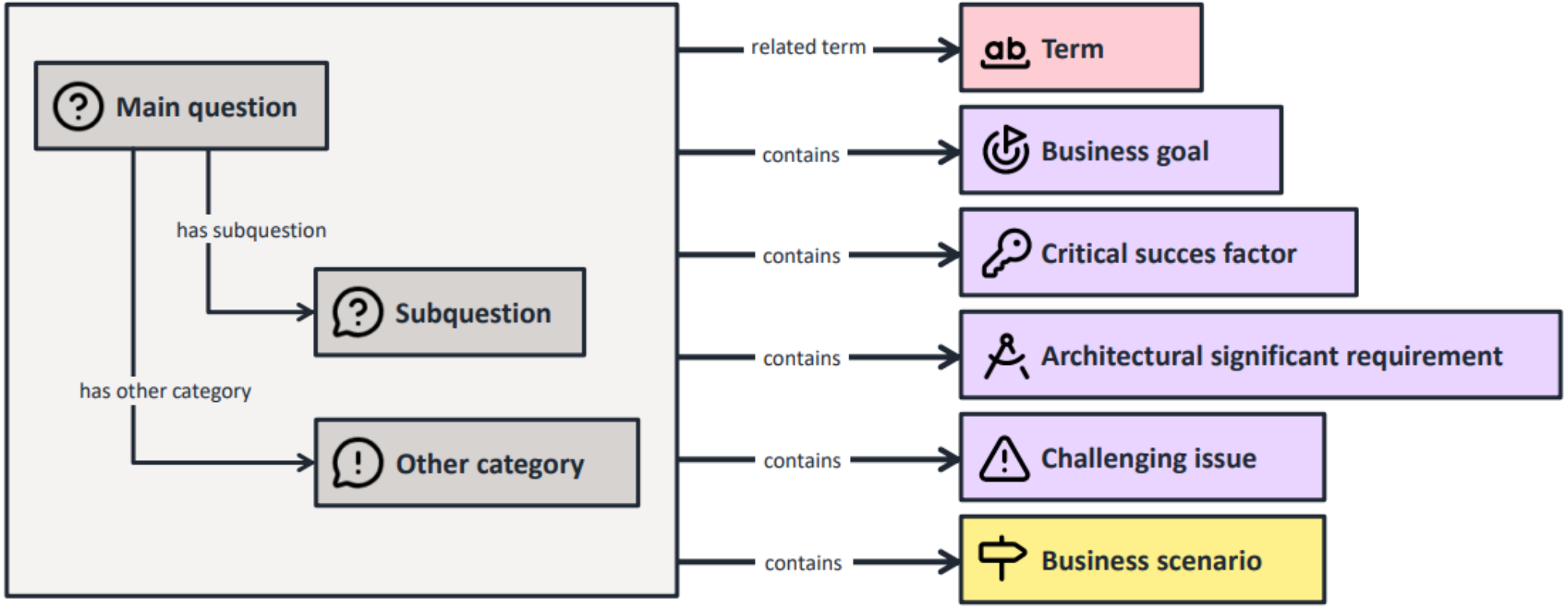
Document	Project	Project type	Document location
Reglement	Eigendom en de overdracht van de boeken	Subquestion	In source register
Stappenplan	Wettelijke kaders en interne regels	Subquestion	In source register
Heel Lent Leest	Wettelijke kaders en interne regels	Subquestion	In source register
Overheidsrichtlijnen	Wettelijke kaders en interne regels	Subquestion	In source register
Juridisch scenario: Anja over boeken lenen en herinneringen	Juridische scenarios	Other category	Local document
Juridisch scenario: Piet gaat elke donderdag naar de bibliotheek	Juridische scenarios	Other category	Local document
Juridisch scenario: Thomas houdt van klassieke muziek	Juridische scenarios	Other category	Local document
Juridisch scenario: Joris neemt vaak meerdere boeken tegelijk mee uit de bibliotheek.	Juridische scenarios	Other category	Local document
Juridisch scenario: Sophie is student en helpt haar huisgenoot Kim	Juridische scenarios	Other category	Local document

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Structure of the Scope DSL





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Scope in Documentation portal



Documentation Portal | Scope | Scenarios | Legal analysis | FLINT | Requirements | Business design | Sources | Terms

Scope | What is involved when a private individual wants to open a lending library at their home? 31-08-2026

What is involved when a private individual wants to open a lending library at their home? Main question

Subquestion: Are permits needed? | Is registration needed?

Other category: Outside scope (for now) | Requirements regarding physical access

Definition

In this docket we want to analyze what is involved when a private individual wants to open a private lending library at home. Is this allowed? Are there guidelines or directives? Are permits needed? Et cetera.

Source references

2. Purpose and Scope	This directive is intended for private individuals who want to open and manage a private lending library at home
Riet and Frits open a private lending library at home	Until about 20 years ago, Lent had a library. Since the closure, the residents of Lent have had to rely on the libraries

Related concepts

Terms

Is related to

Private lending library at home

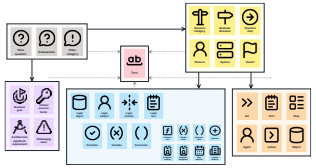
Tickets

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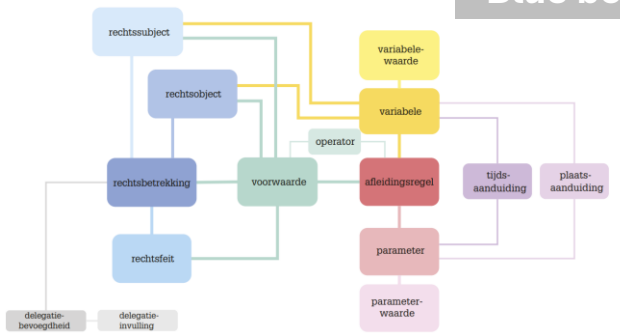
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Legal analysis (Wetsanalyse)

Legal analysis



Blue book



Workbench

Rechtssubject | Rechtsobject | Rechtsbetrekking | Rechtsfeit | Voorwaarde | Afleidingsregel | Variabele | Variabelewaarde

Parameter | Parameterwaarde | Operator | Tijdsaanduiding | Locatieaanduiding | Delegatiebevoegdheid | Delegatie-invulling

Legal object | Legal subject | Legal relation | Legal fact

Condition | Variable | Parameter

Frames and their relations

Inference rule | Variable value | Parameter value | Operator

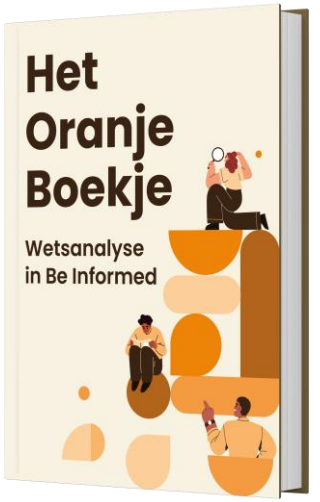
Delegation authority | Delegation assignment | Time indicator | Location indicator

Referenced annotations / Properties

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Process support for legal analysis



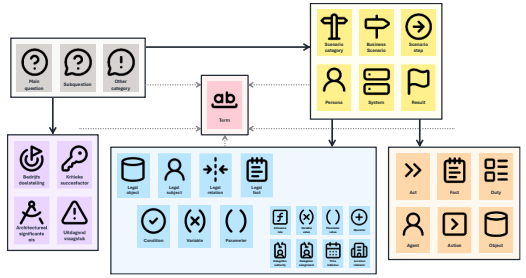
Projects

Project name	Project status	Project type	State	Time limit type	Indicator	Expiration date	Assignments
Scope definition: rationale, context, and objective(s) of this Legal Analysis	In progress	Scope		Project time limit		07-01-2026	
Determining the meaning of legislation - terms and definitions	In progress	Terms		Project time limit		07-01-2026	
Capturing the additional requirements that must be included in the analysis	In progress	High level requirements		Project time limit		07-01-2026	
Modelling and validating the various described scenarios	In progress	Business scenarios		Project time limit		07-01-2026	
Legal analysis - annotating and modelling the mutual relationships	In progress	Legal analysis		Project time limit		07-01-2026	
Development of the FLINT model	In progress	FLINT		Project time limit		07-01-2026	

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Workbench | Standards & Interoperability



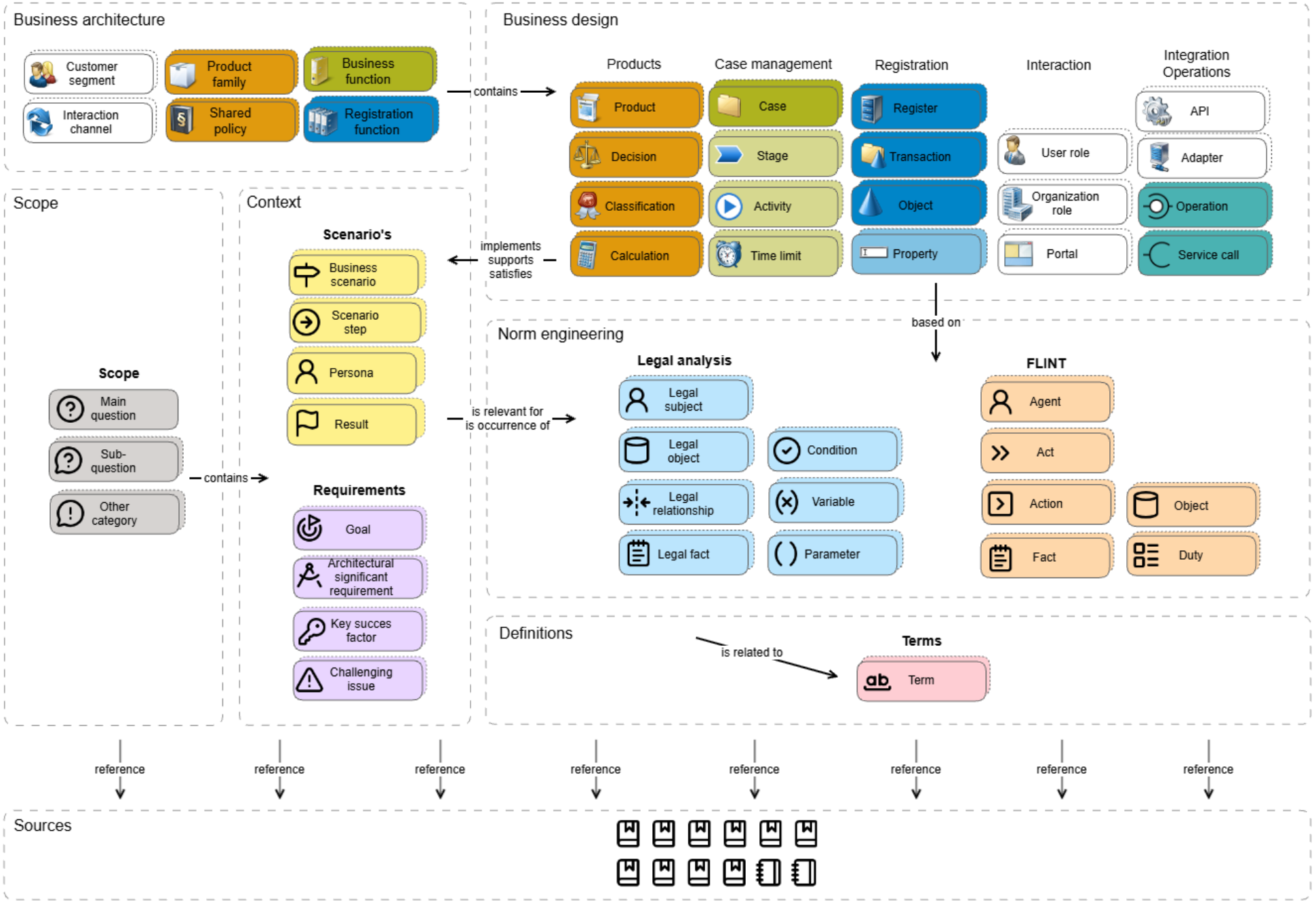
Scope	Legal landscape	json
Business scenarios	Open Group | TOGAF	json
High level requirements	Archimate	json
FLINT	FLINT | Calculemus	Flint json, ttl, html
Legal analysis	Juridisch Analyse Schema	json
Terms	SKOS | NLSBB	json, ttl

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How all DSLs are connected

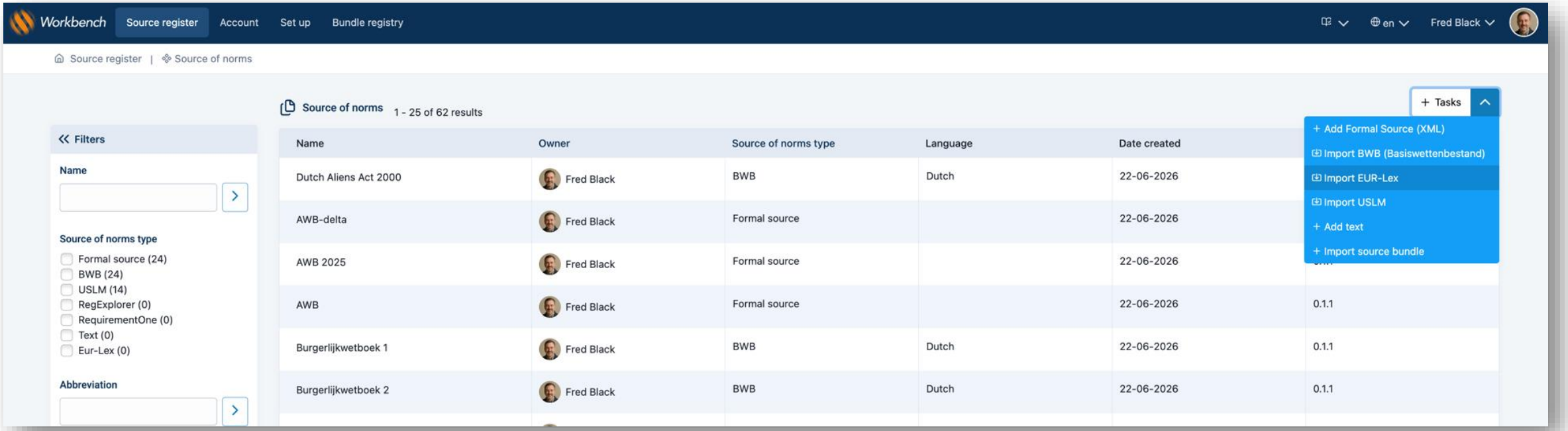
(and in BMS: feel free to add your own connections and create your own metamodels)



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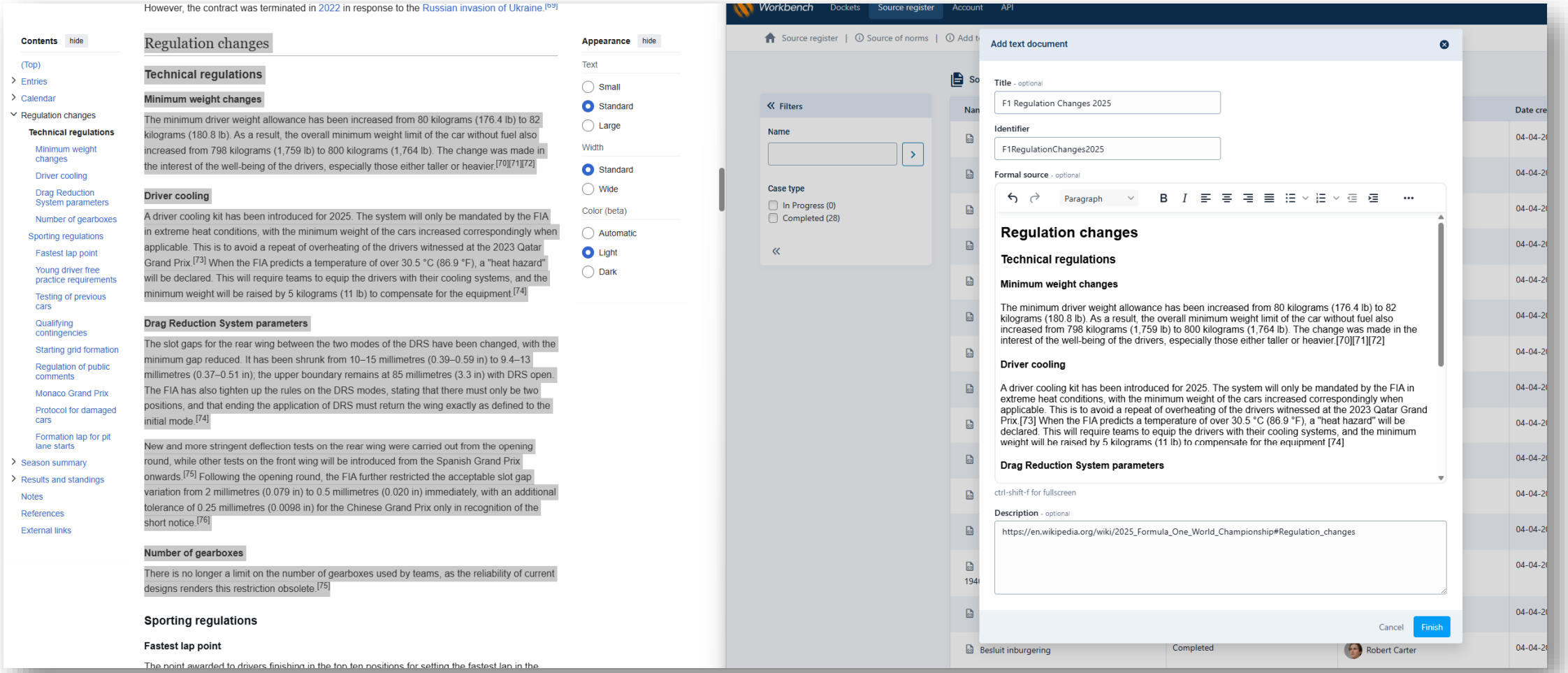
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Importing different types of sources



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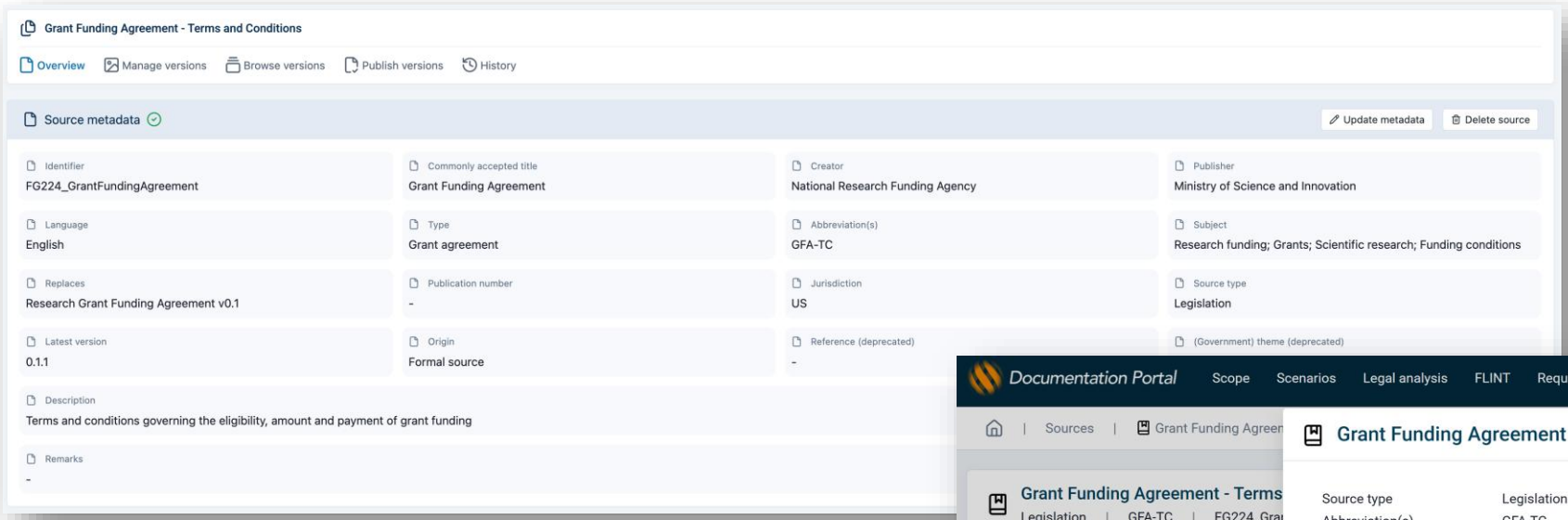
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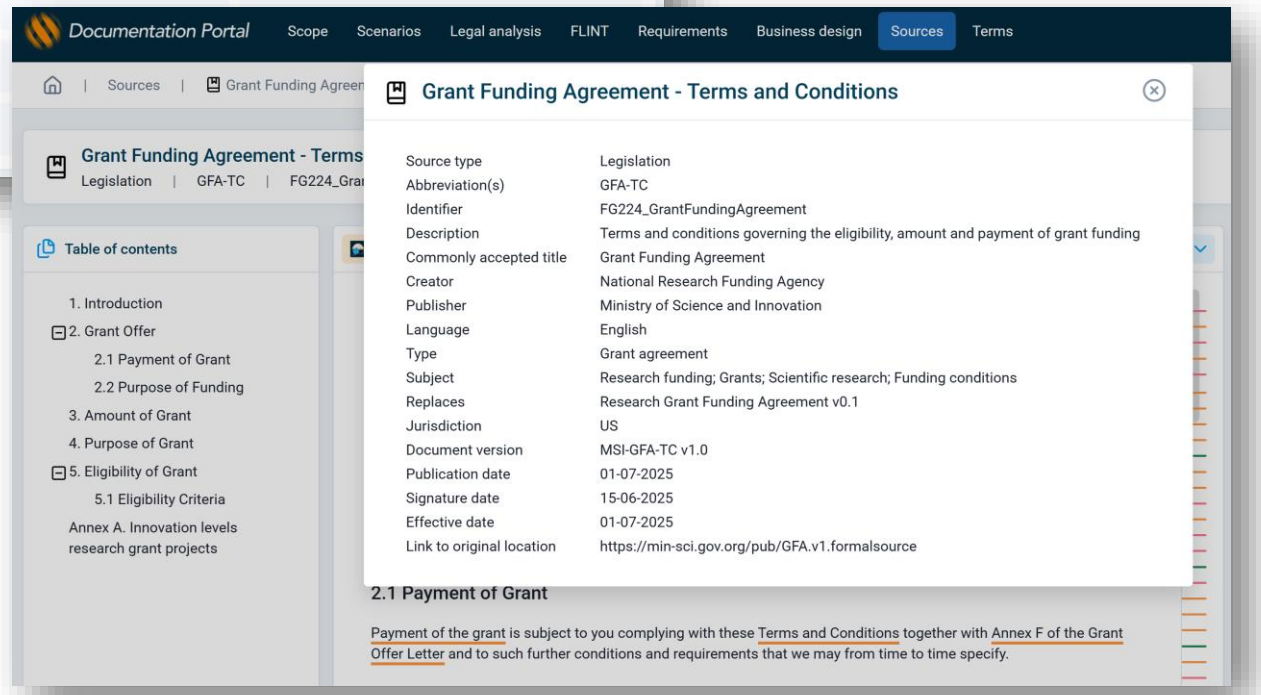


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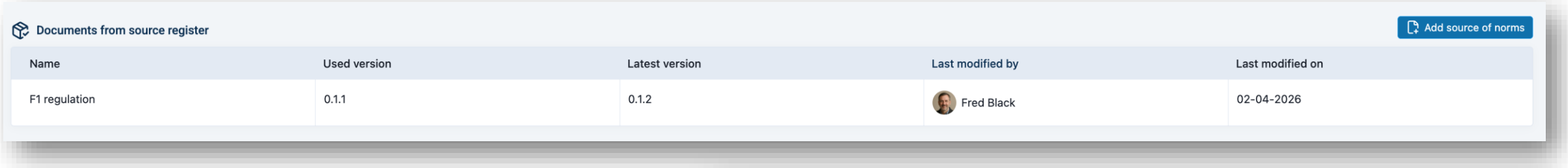


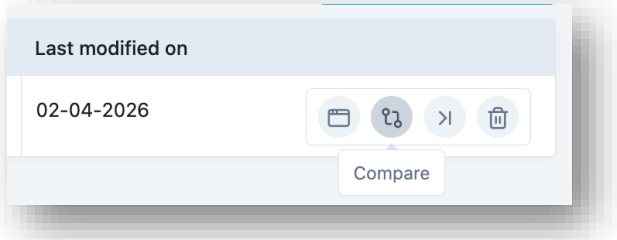
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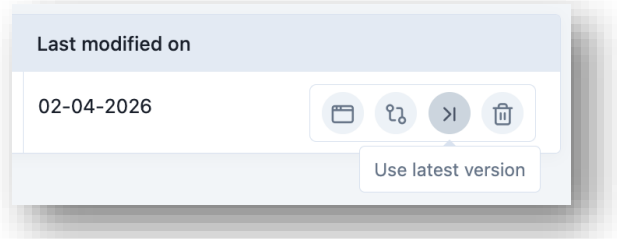
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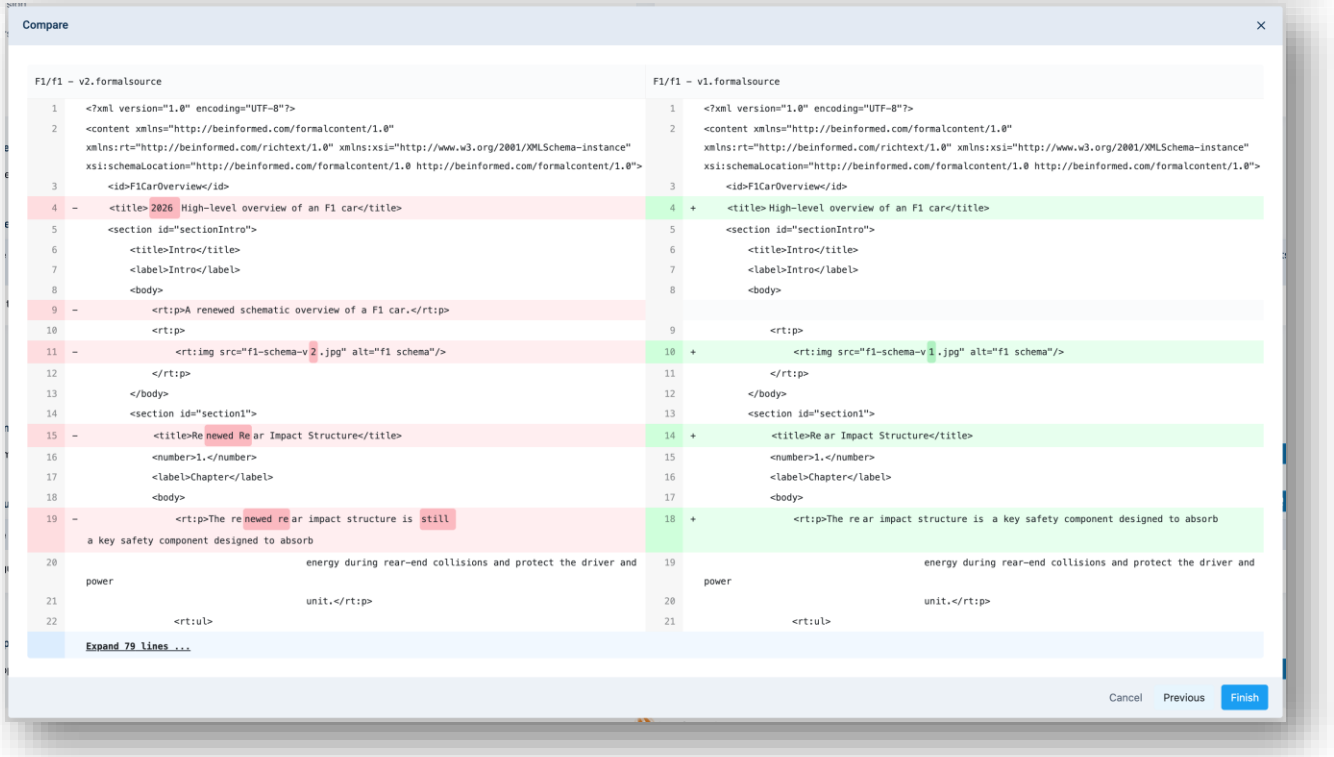
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Sources and versions





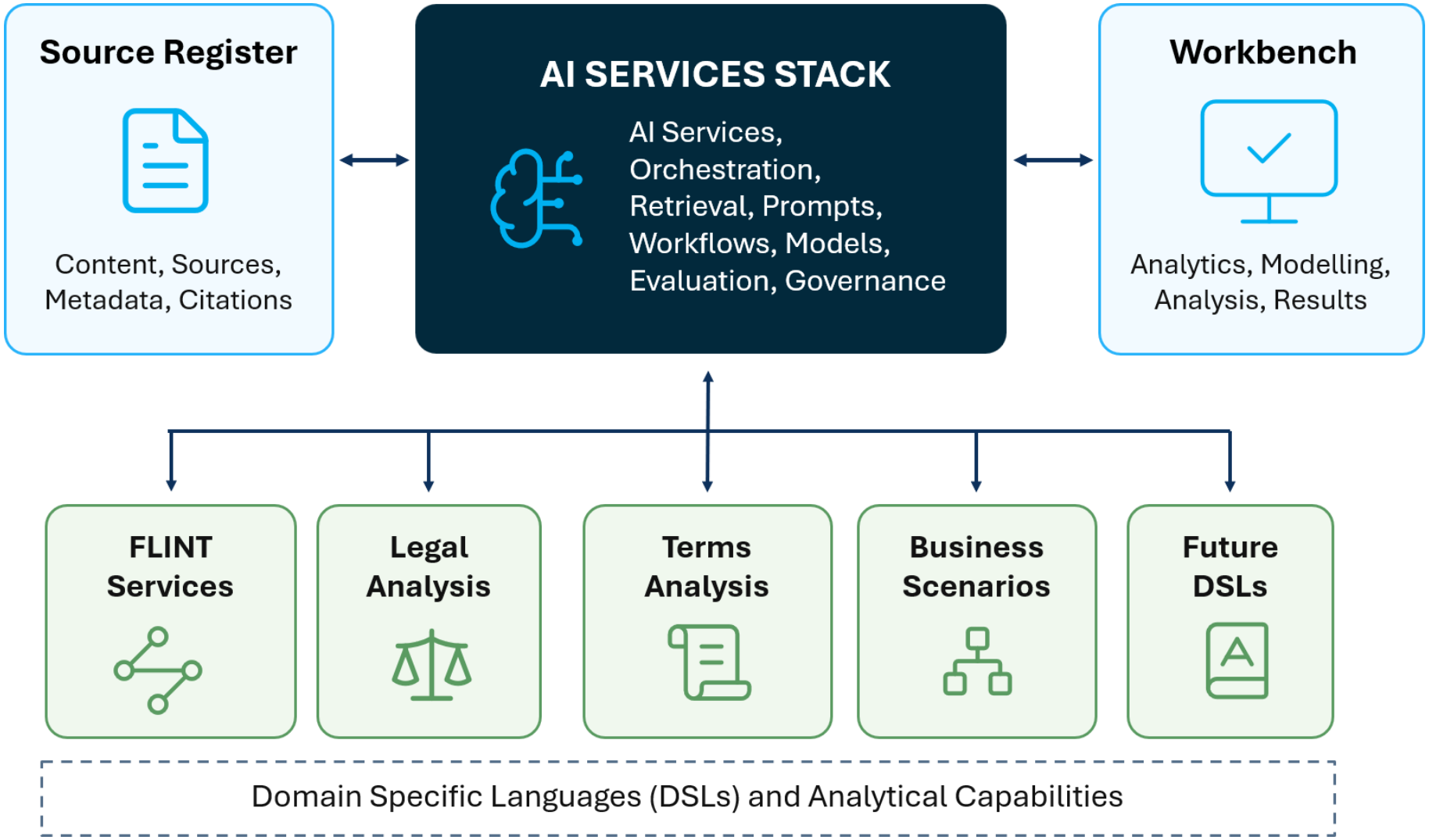




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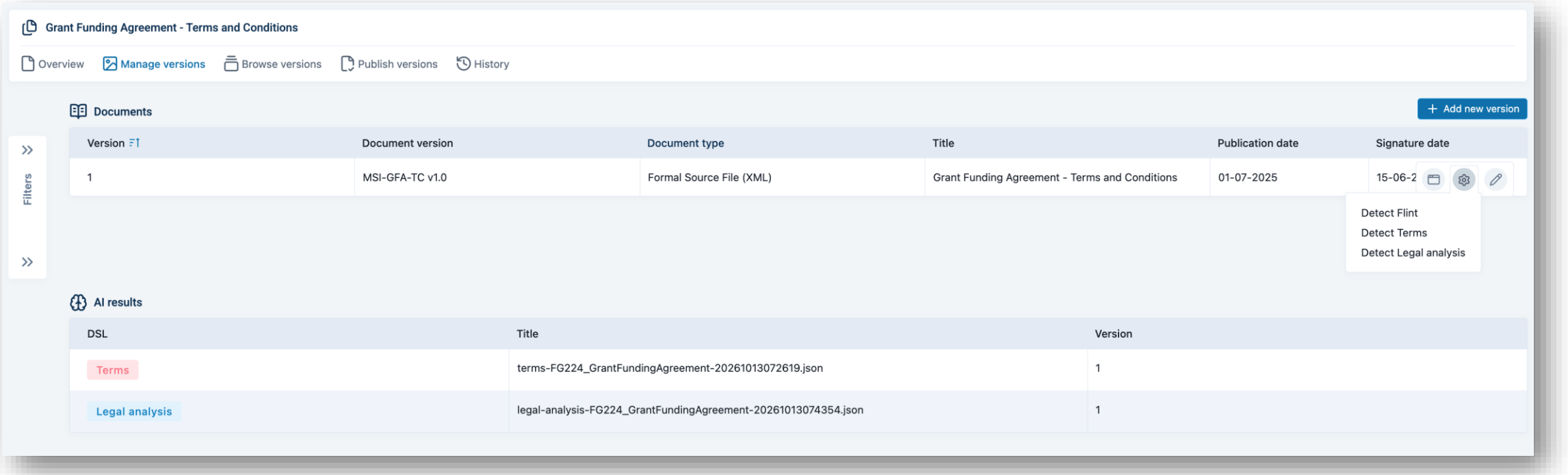
AI Support



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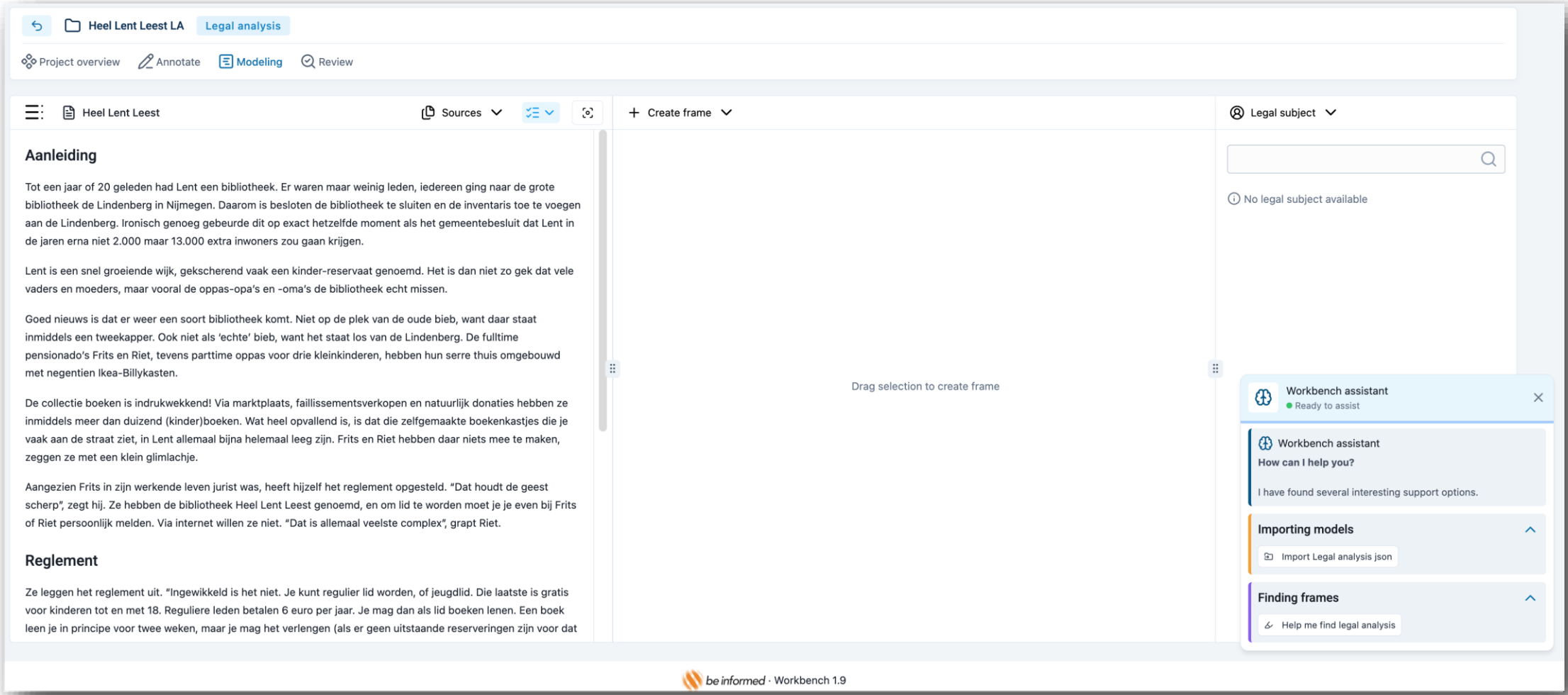
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AI support | Source register



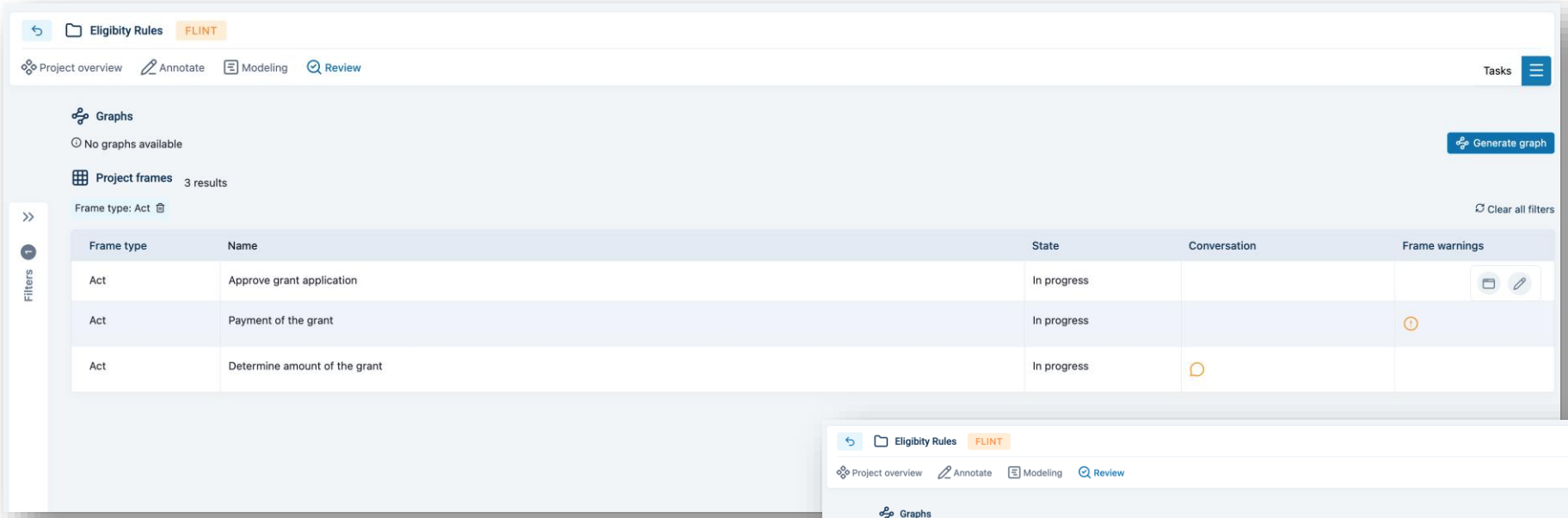
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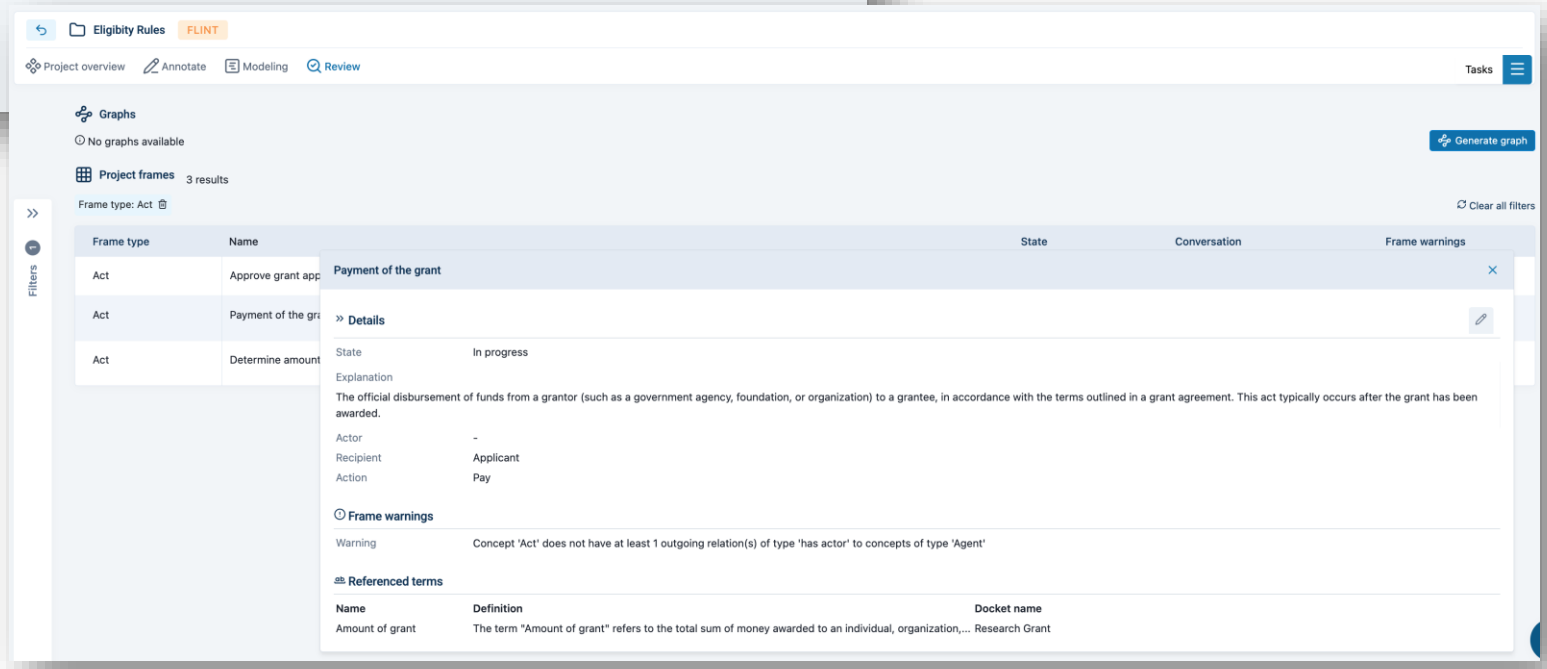
AI support | Workbench assistant



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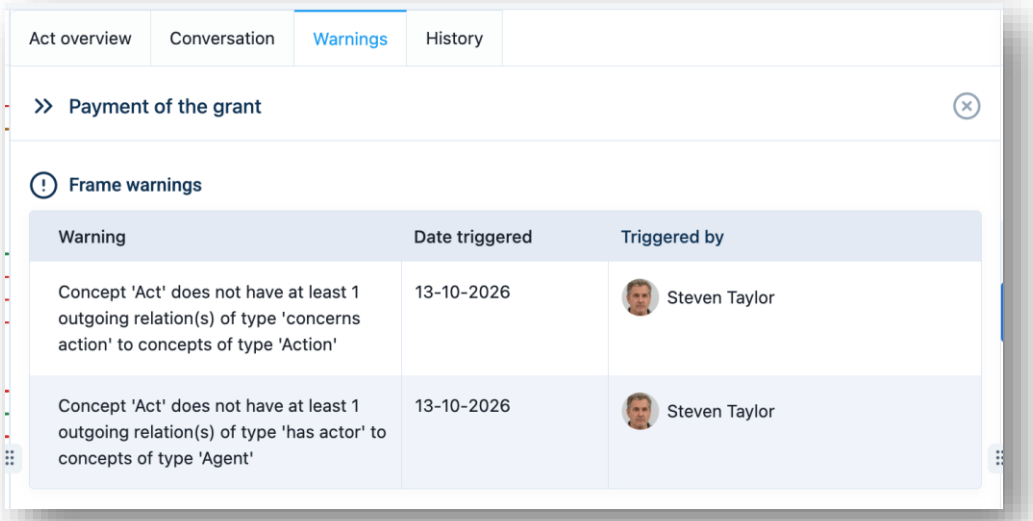
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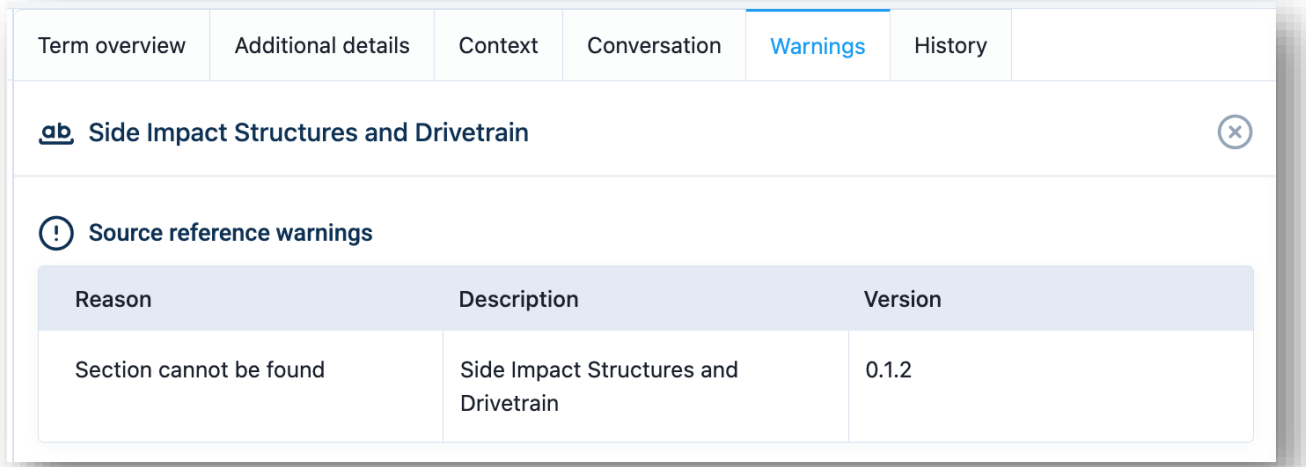


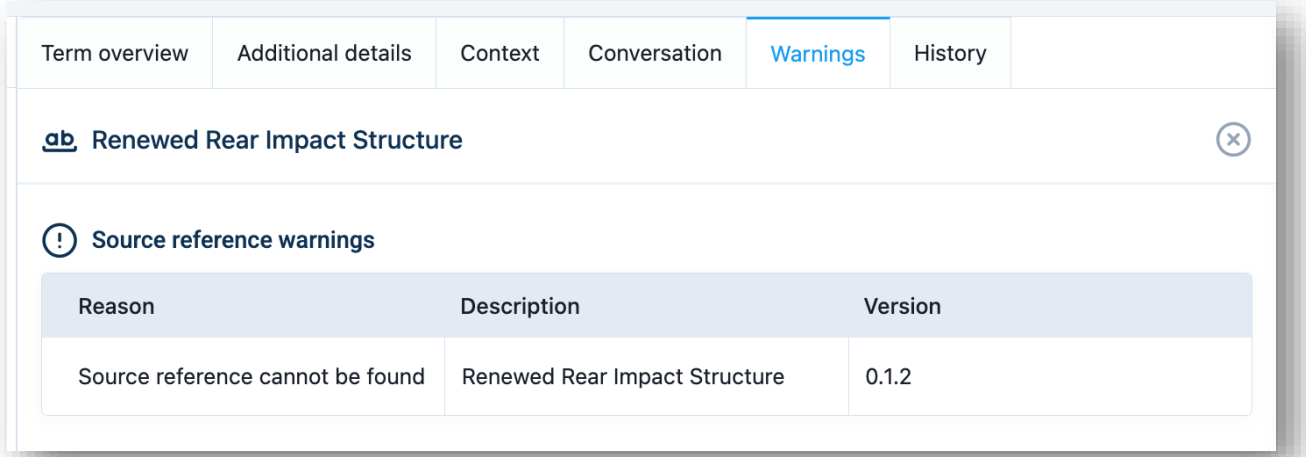


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Reviewing and collaboration | Frame warnings



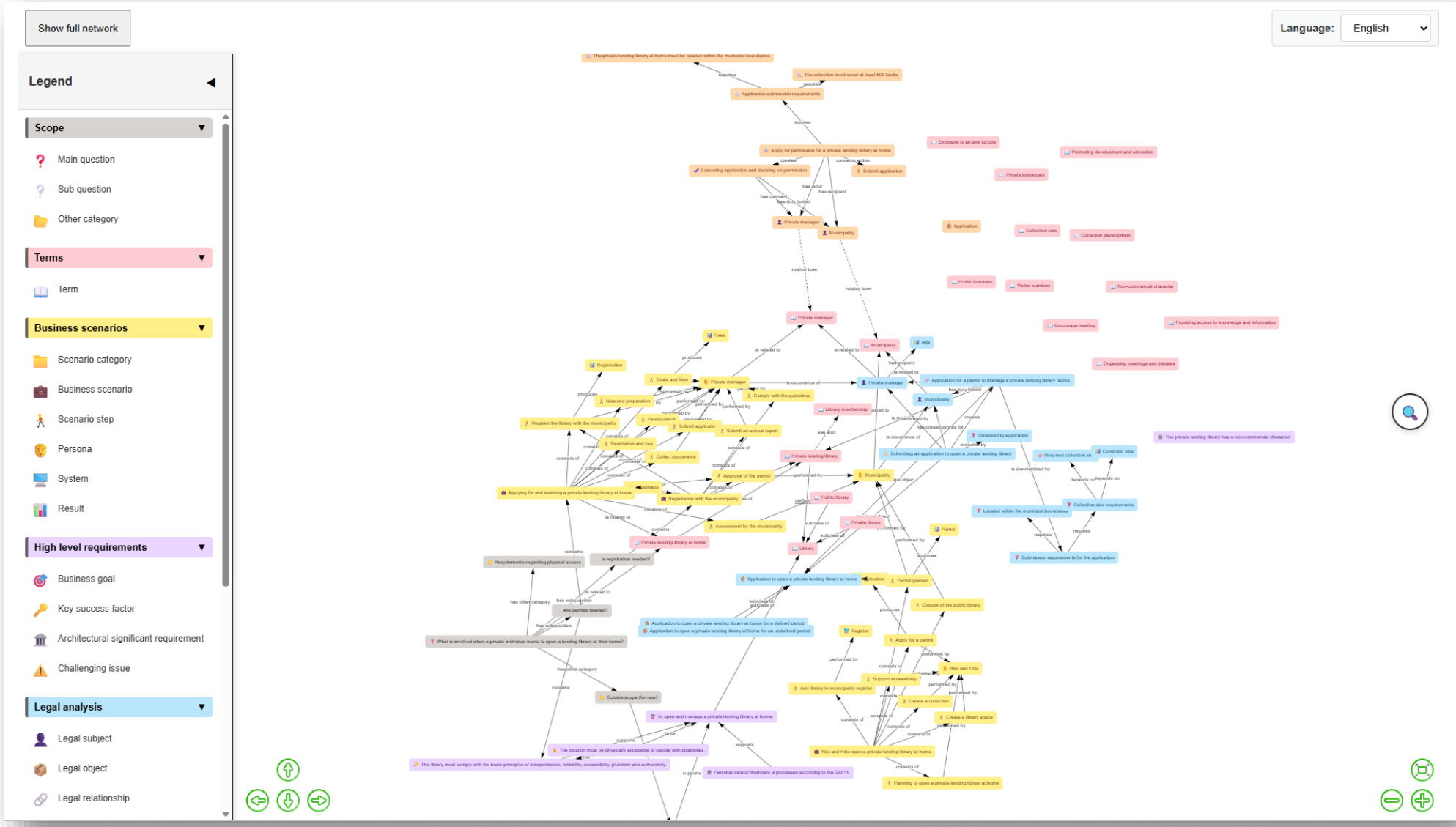




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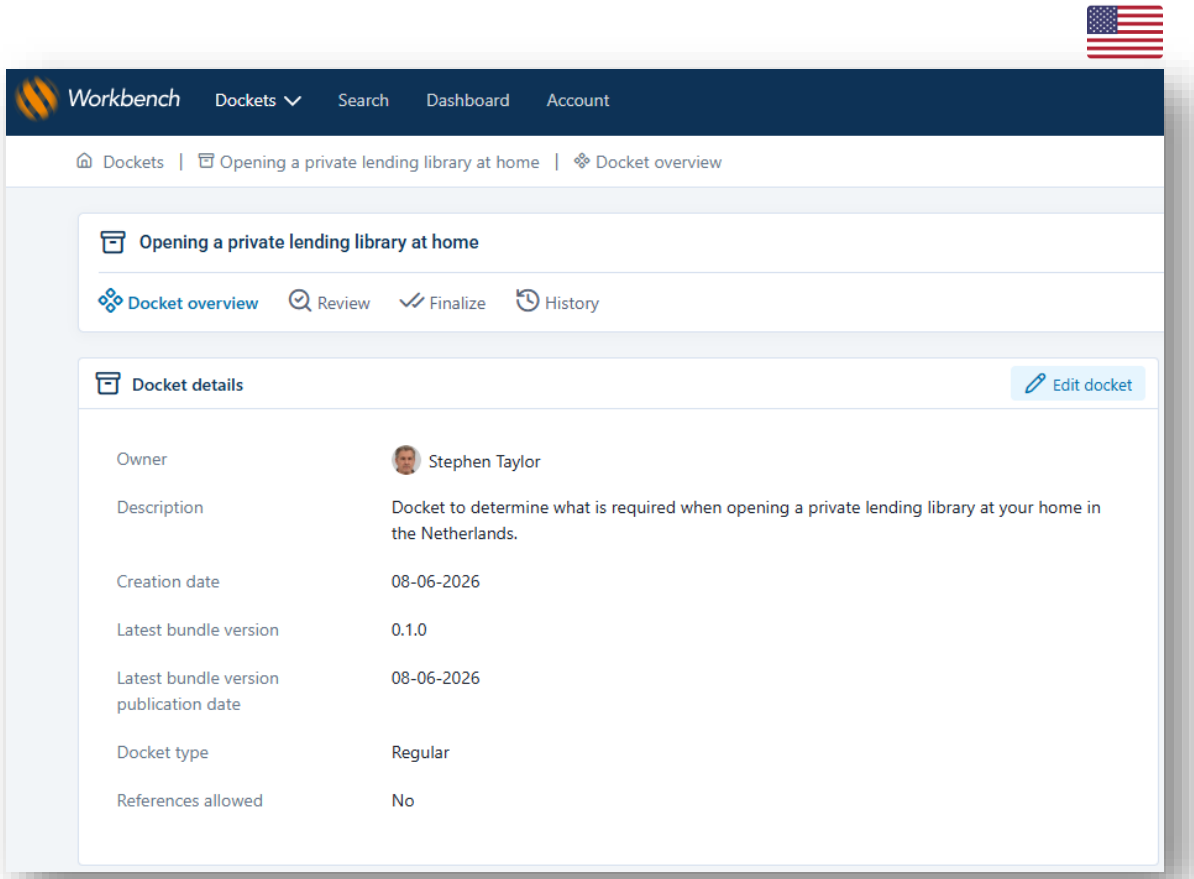
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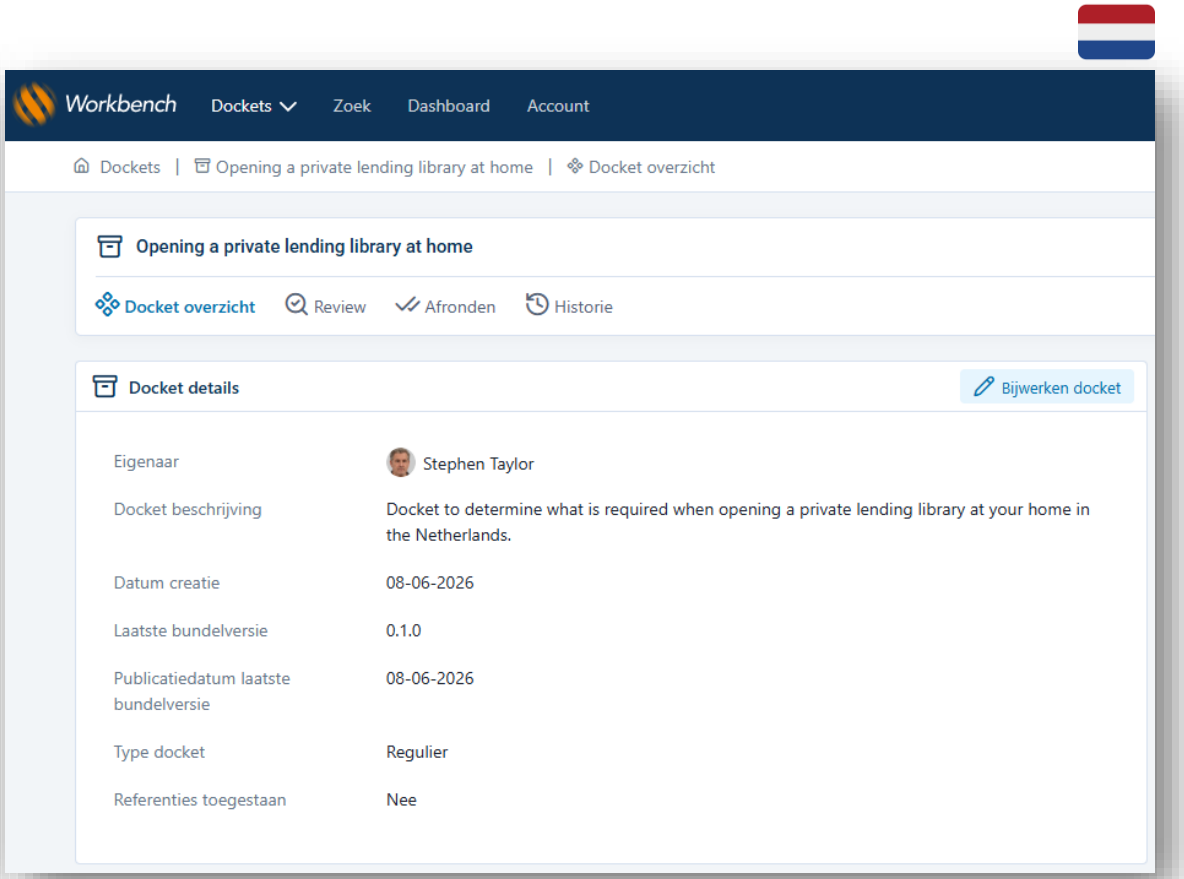
Reviewing and collaboration | Project & Docket Graph



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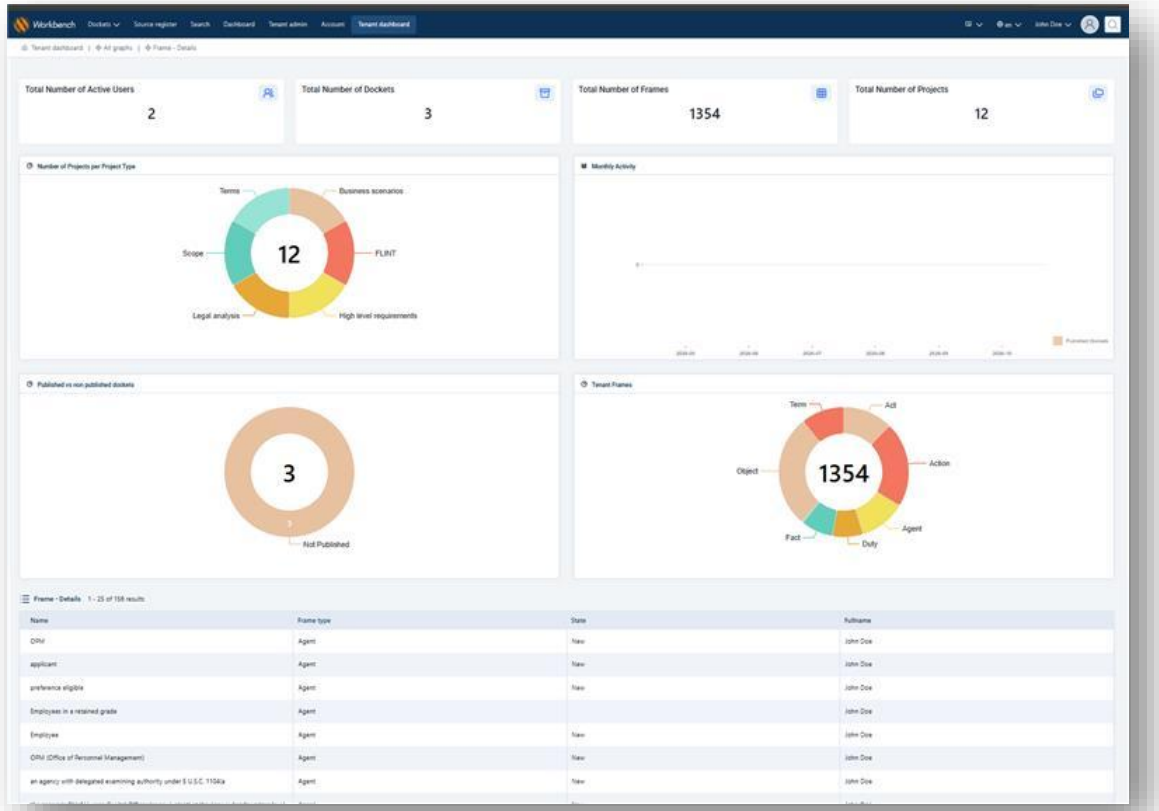


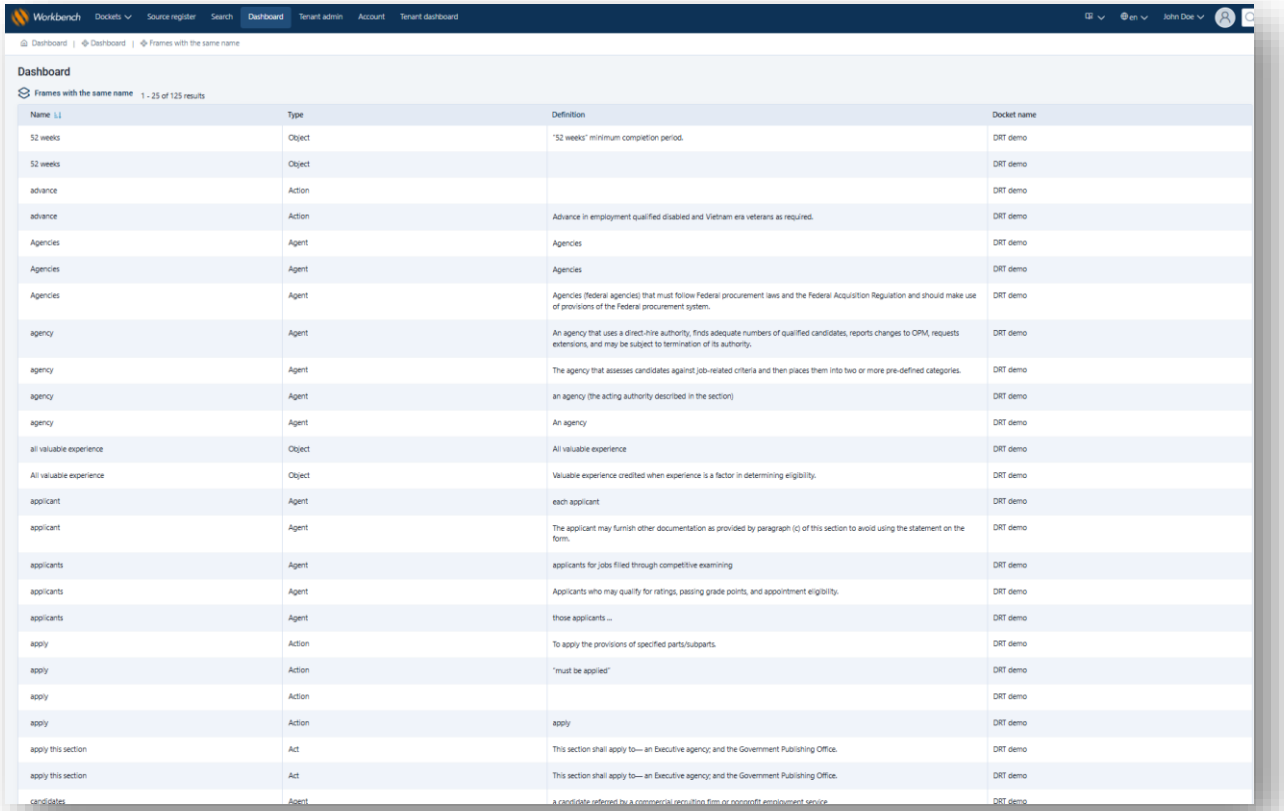


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Overviews & Dashboards





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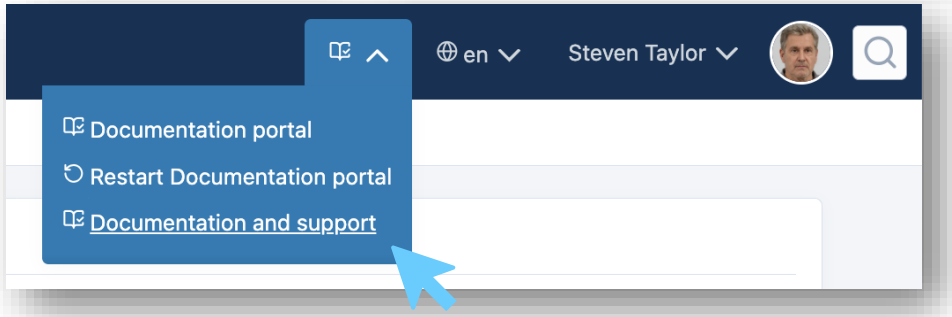
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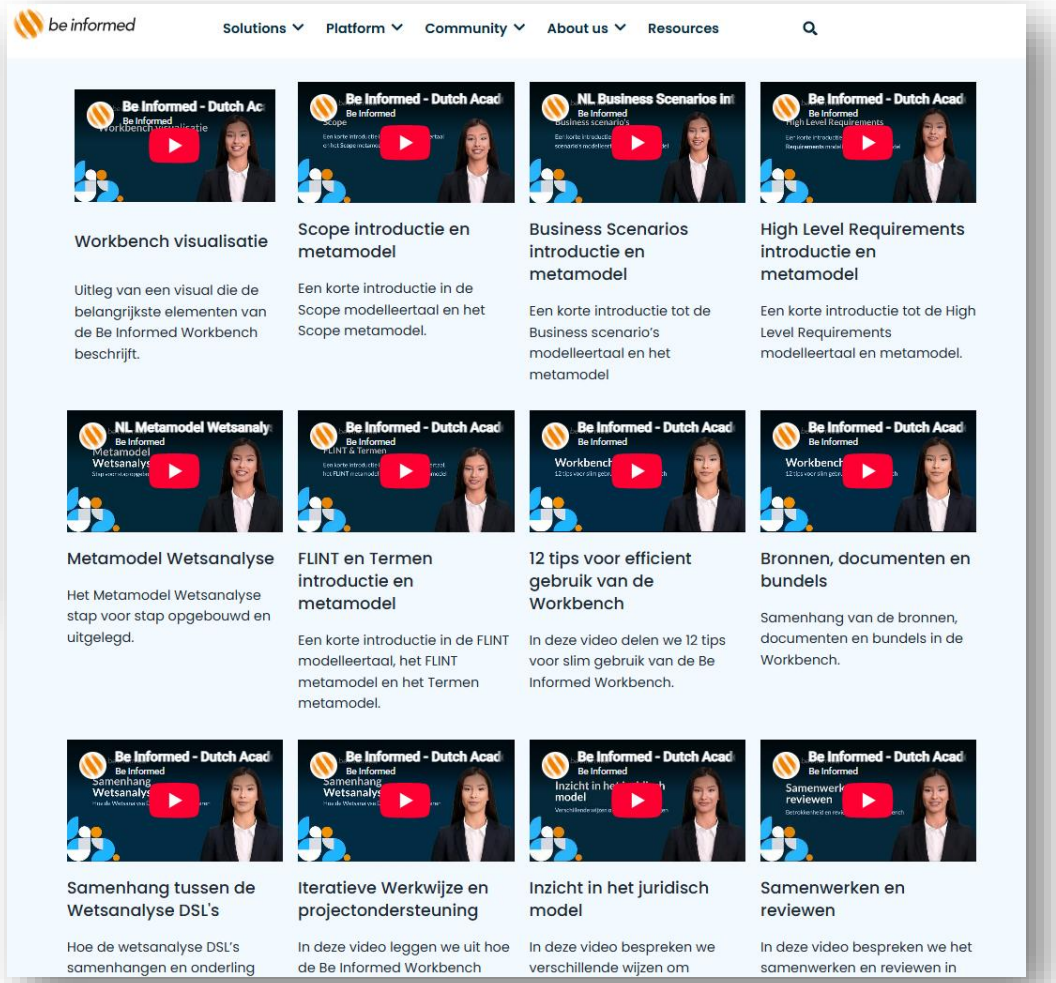
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