

# Appendices

The Appendices comply with the request of experts working with the Data Management System of Leiden University. The idea is that the data produced in the research and presented in the thesis should be enumerated collectively in a single, accessible source.

This part of the thesis contains 6 Appendices (1 to 6).

- Appendix 1: iContracts Ontology Engineering
- Appendix 2: Contract Risk Ontology Engineering
- Appendix 3: End User Visualisation & Survey
- Appendix 4: Application Engineering
- Appendix 5: LegalTech & Applications
- Appendix 6: Technology Adoption

Within each Appendix there are subdivisions, which are lettered, ranging as follows.

- Appendix 1: 1A to 1H
- Appendix 2: 2A to 2N
- Appendix 3: 3A to 3C
- Appendix 4: 4A to 4I
- Appendix 5: 5A to 5E
- Appendix 6: 6A to 6B

## **Appendix 1: iContracts Ontology Engineering**

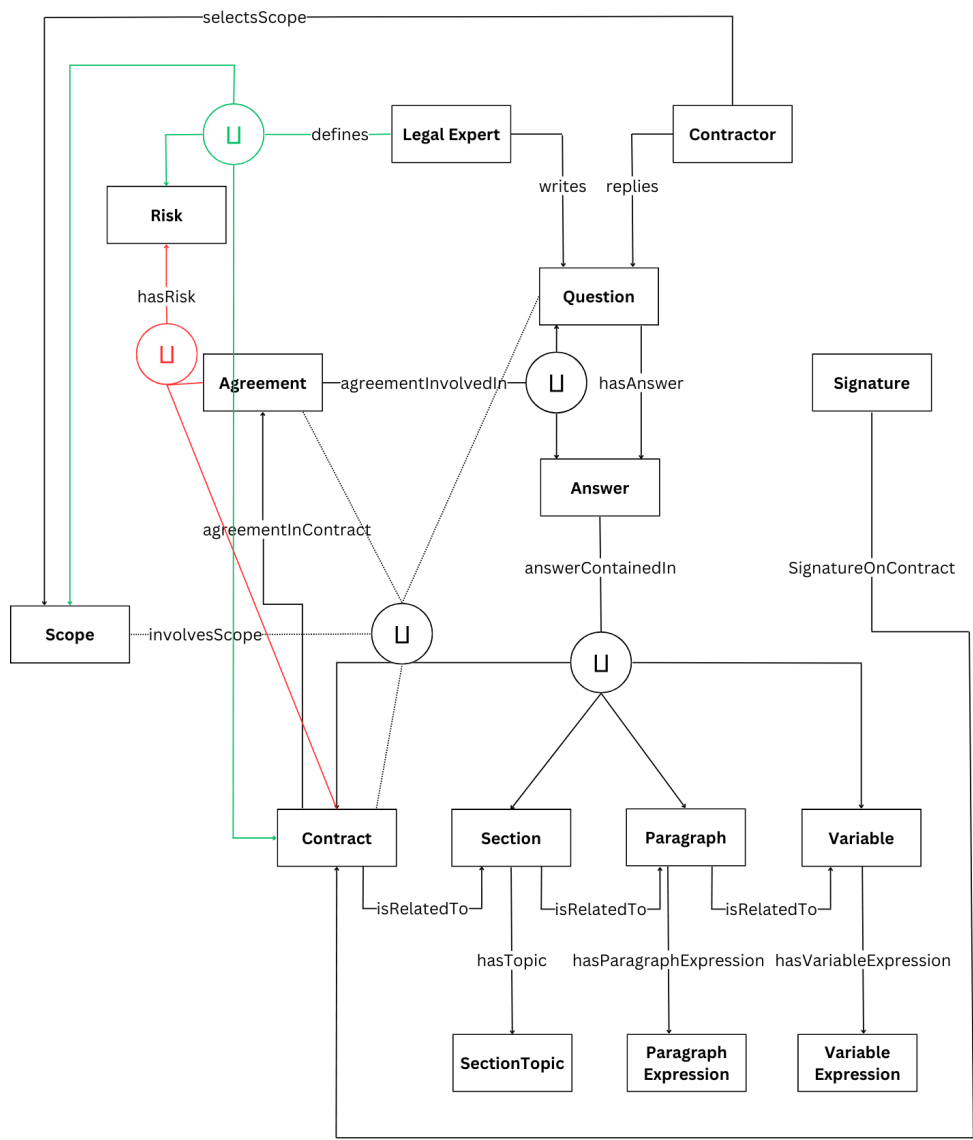
The Appendix addresses 7 subappendices (also called Appendix), which are as follows.

- 1A: State-of-the-Art & Main Pitfalls
- 1B: Onassis Ontology (Simplified)
- 1C: Onassis Ontology (Scientific)
- 1D: LegalTech Solutions Application Domains
- 1E: Onassis Ontology Knowledge Graph (Simplified)
- 1F: Onassis Ontology Knowledge Graph (Scientific)
- 1G: Additional Knowledge Graph Validation Examples
- 1H: Dauer Matrix

Appendix 1A: State-of-the-Art & Main Pitfalls

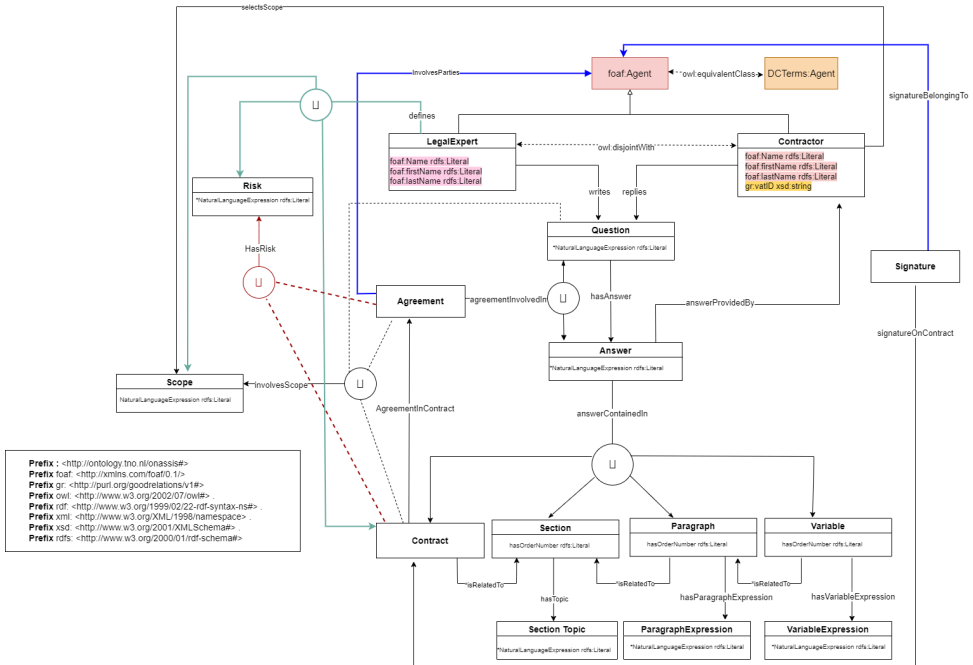
	State-of-the-Art	Main Pitfall
Communications Data	Chatbot	Low trustworthiness
Risk Data	Bow-Tie Method	Time-consuming
Communications and Risk Data	Implicit connection	Requires human analysis
Ontology Engineering	Contract Data	Limited and restricted data

Appendix 1B: Onassis Ontology (Simplified)



## Appendix 1C: Onassis Ontology (Scientific)

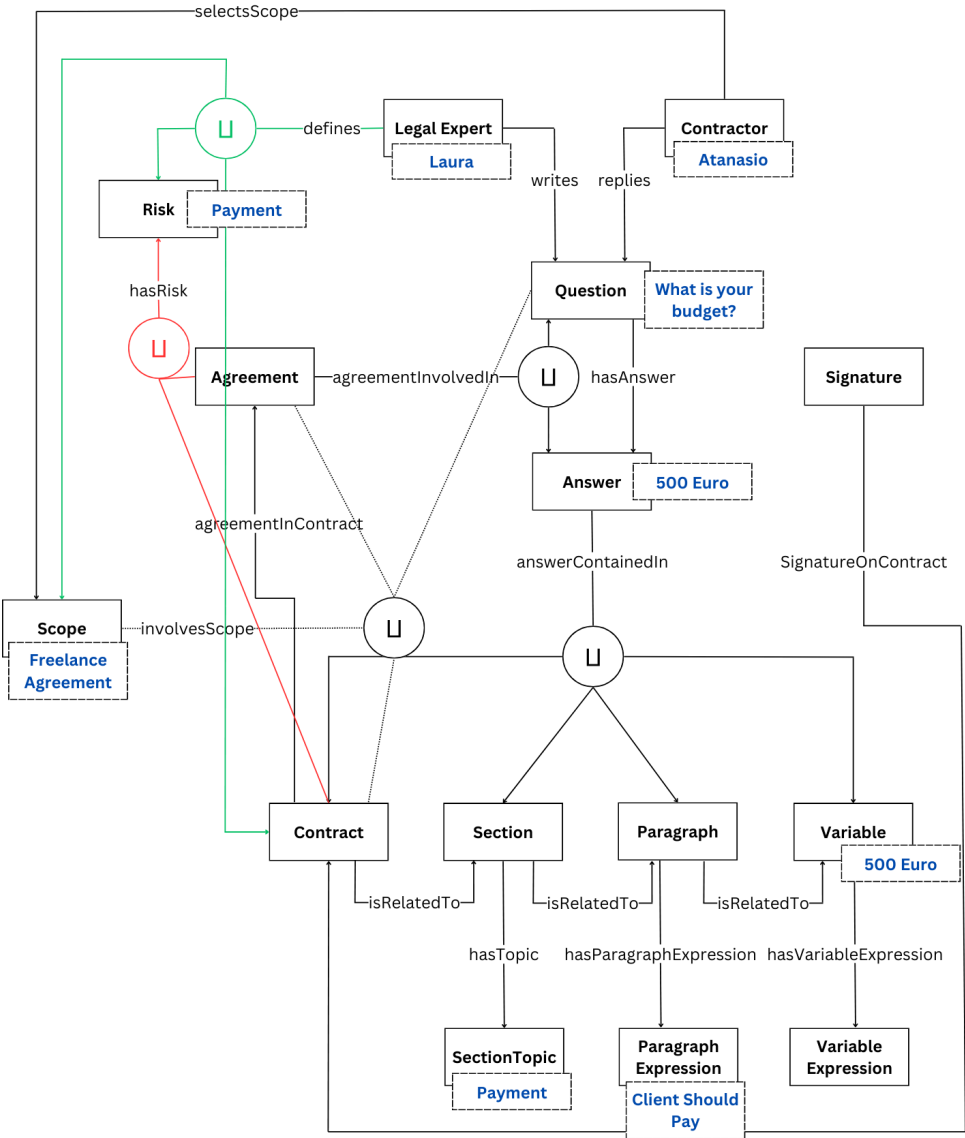
To view the visualisation with higher degree of clarity please visit this link:  
<https://github.com/onassisontology/onassisontology>



**Appendix 1D: LegalTech Solutions Application Domains**

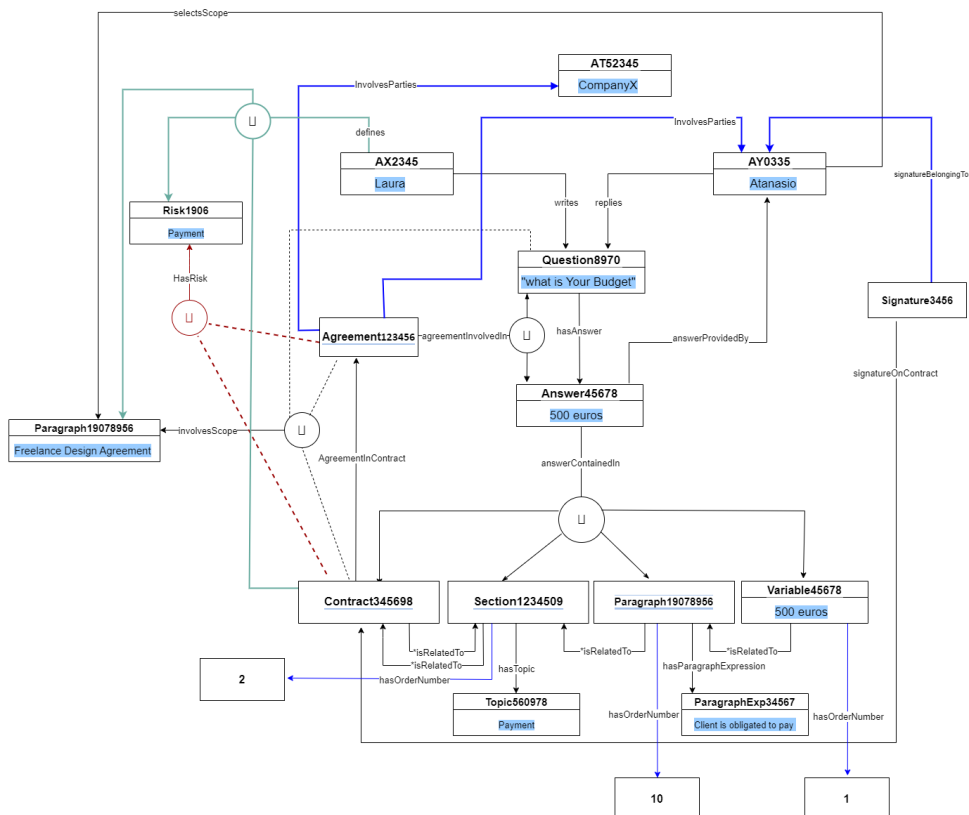
Top	Automation	Application	Communications	Application	Risk	Application
1	Infor	Industry Cloud	Vlocity (Salesforce)	Cloud and Mobile Software	Aravo Solutions	Third-Party Management
2	DocuSign	eSignature	Pactum	Negotiations	Epoq	Legal Documents
3	Icrtis	Contract Management	Robin AI	Contract Management	Powerlytics	Predictive Analytics
4	Seismic	Customer Management	Spendflo	SaaS Buying Optimization	Intellinetics	Document Management
5	Workfront (Adobe)	Project Management	Trim	Bill Negotiations	Hypernative	Web3 Asset Protection
6	Snapdocs	eClosing	ParelyPro	Contract Management	Nayms	Insurance Marketplace
7	Ontra	Legal Operating System	Common Paper	Contract Management	Sparrow	Digital Asset Solutions
8	Coda	Document Management	Along	Customer Management	Insurdata	Geocoding Data Management
9	Onit	Legal Workflow	Contraktor	Contract Management	DocLogix	Document Management
10	AirSlate	Document Workflow	Valla	Workers Platform	Finch	Personal Finance

Appendix 1E: Onassis Ontology Knowledge Graph (Simplified)





To view the visualisation with higher degree of clarity please visit this link:  
<https://github.com/onassisonontology/onassisonontology>



**Appendix 1G: Additional Knowledge Graph Validation Examples**

Category	Question	Answer/Variable	Risk	Rule
Insurance	What is the number of your professional liability insurance?	12345	Insurance coverage	Freelancer must possess professional liability insurance
Payment Terms	What is your preferred payment method?	Final Delivery Payment	Delayed payments	Client should comply with the payment schedule
Confidentiality	How many years should confidential protection last	5	Information leak	Freelancer should maintain all information confidential
Intellectual Property	What type of intellectual property protection do you prefer	Full IP Protection	IP Ownership	Client reserves all IP rights
Scope Changes	What is your preferred way to be informed about potential scope changes	In writing	Delayed changes	Potential scope changes should be communicated explicitly
Delivery	What is the deadline for the delivery of your work in full?	22/5/2023	Project completion	Professional should deliver the necessary work by the stipulated deadline
Communication	What is your preferred communication channel?	Whatsapp	Lack of sufficient communication	The project communication should occur via the specified channels
Dispute Resolution	What jurisdiction should regulate the resolution of a potential dispute	Dutch Law	Dispute	All disputes should be resolved in accordance with the specified law
Termination	How should the parties communicate about the potential termination of the project	In writing	Project Termination	A project should be terminated in accordance with the specified procedure
Acceptance Criteria	What type of client rating is necessary to stipulate an acceptable deliverable	7 in scale from 1 to 10	Quality Control	A client should rate each deliverable from a scale of 1 to 10

**Appendix 1H: Dauer Matrix**

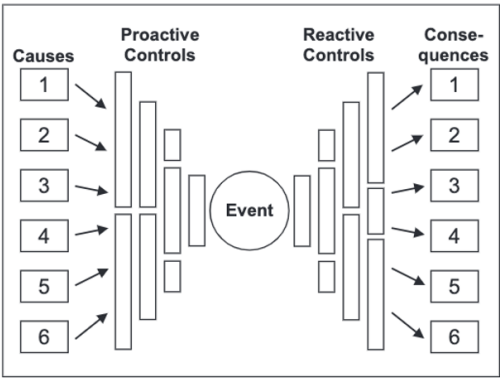
	Direct Parties	Third Parties	Government Regulation or Facilitation	Physical Environment
<b>1a. Planning:</b> Imagine the risks				
<b>1b. Planning:</b> Imagine various structures and methods to prevent problems from arising				
<b>2. Addressing Problems:</b> Use early warning systems and resulting information to prevent problems from escalating into "disputes"				
<b>3. Dispute Resolution:</b> Take steps to resolve disputes fairly and efficiently, using a succession of methods				
<b>4a. Feedback and Follow-up:</b> Anticipate and foreclose ad- verse spill-over effects of the res- olution itself				
<b>4b. Feedback and Follow-up:</b> Feedback the nature of the prob- lem and dispute to Step 1, the planning process				

## **Appendix 2: Contract Risk Ontology Engineering**

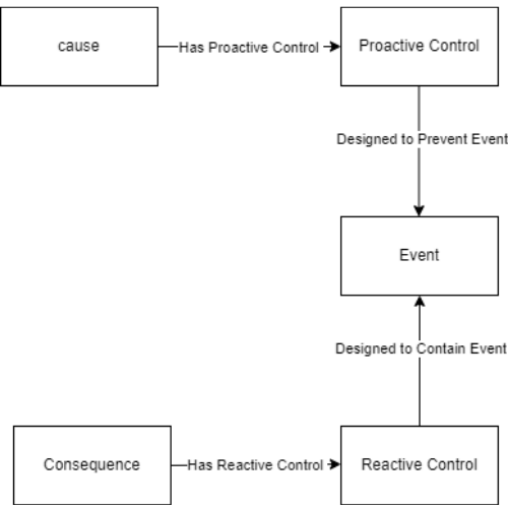
The Appendix addresses 4 subappendices, which are as follows.

- 2A: Bow-Tie Method
- 2B: Bow-Tie Centred Ontology
- 2C: Enriched Bow-Tie Ontology (Simplified)
- 2D: Enriched Bow-Tie Ontology (Scientific)

Appendix 2A: Bow-Tie Method

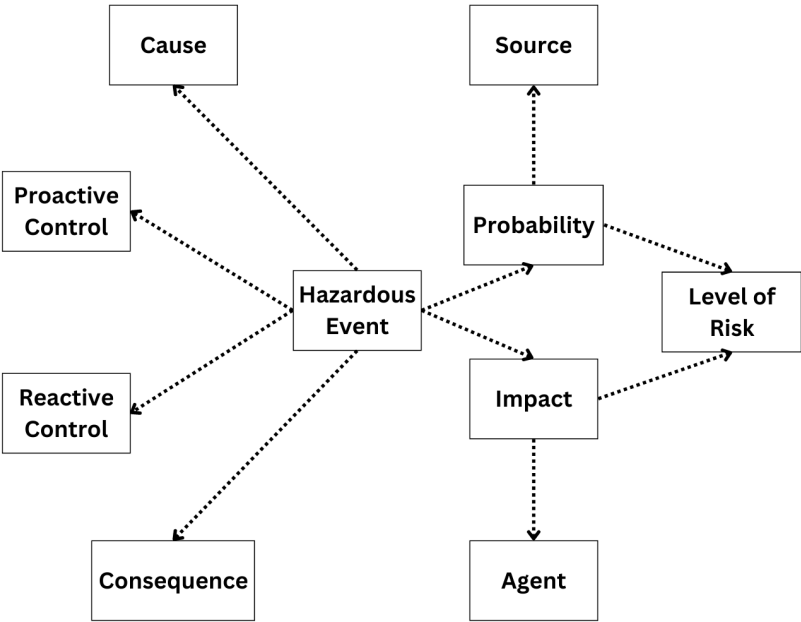


Appendix 2B: Bow-Tie Centred Ontology



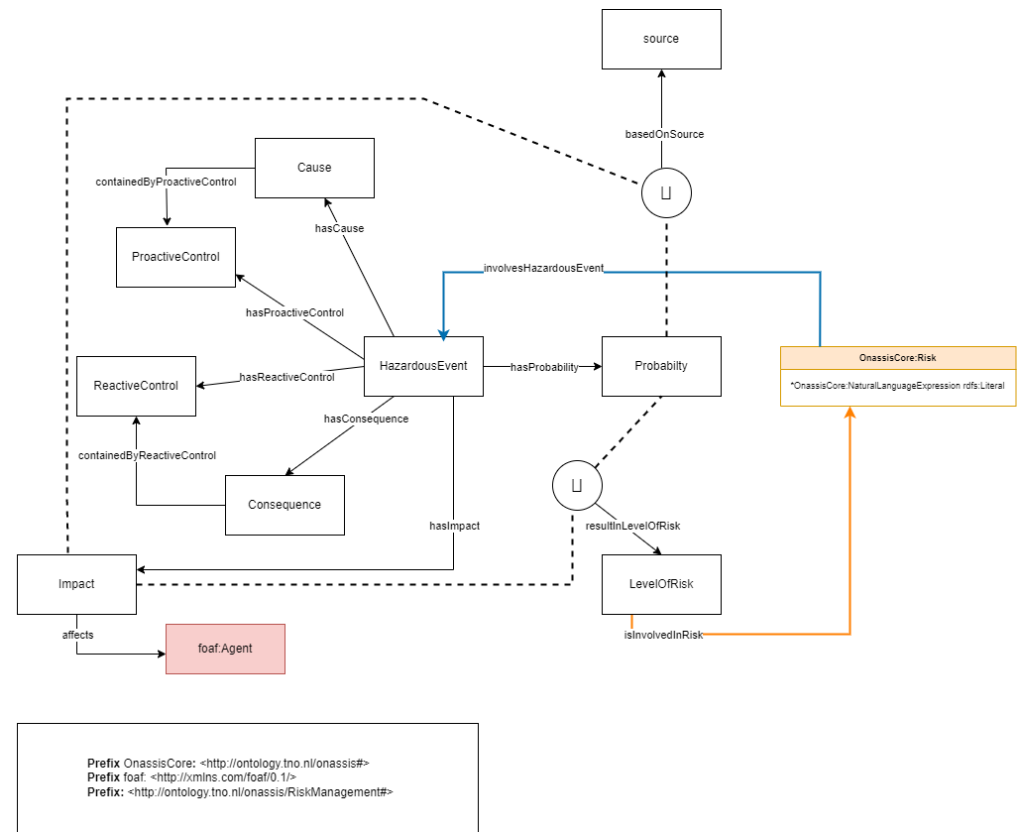


Appendix 2C: Enriched Bow-Tie Ontology (Simplified)



Appendix 2D: Enriched Bow-Tie Ontology (Scientific)

To view the visualisation with higher degree of clarity please visit this link:  
<https://github.com/onassisontology/onassisontology>



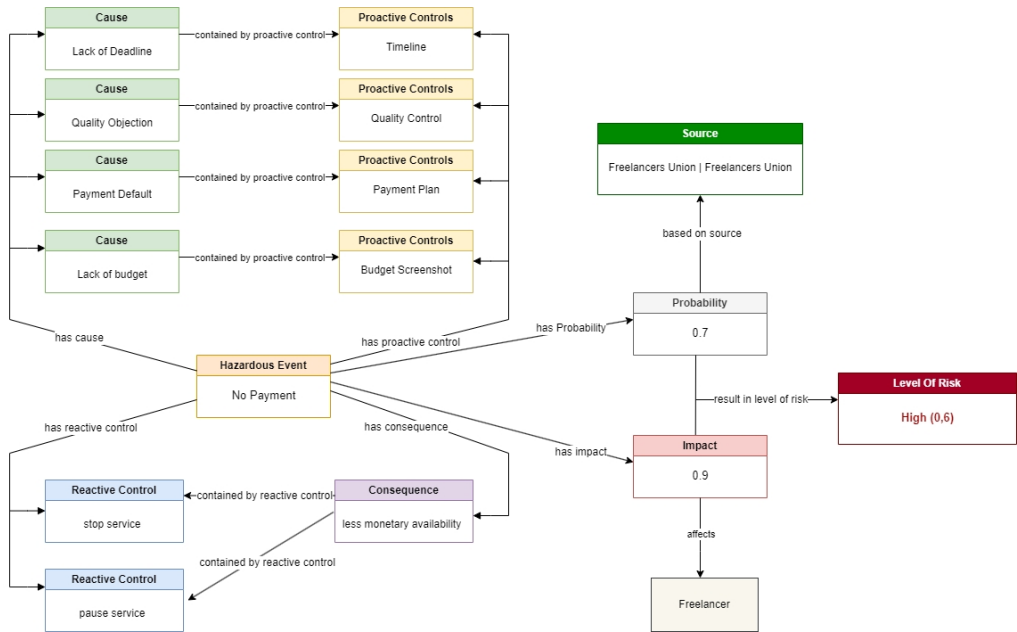
### **Appendix 3: End User Visualisation & Survey**

The Appendix addresses 3 subappendices, which are as follows.

- 3A: Payment Risk Analysis Visualisation
- 3B: Explorative Research Survey
- 3C: Exporative Survey Data

Appendix 3A: Payment Risk Analysis Visualisation

To view the visualisation with higher degree of clarity please visit this link:  
<https://github.com/onassisontology/onassisontology>



## Appendix 3B: Explorative Research Survey

### Title

Research Survey

### Guidelines

The purpose of the survey is to measure the extent to which your trustworthiness over legal question-answering for a contract is affected by the visual explanation of risk. By filling out the form below you consent to the processing of your data for the purposes of this research, and you declare that you are above 18 years old.

### Background Information

Before answering the survey, please fill out the following information to help us understand your digital affinity background.

1. What is your age?
2. What is your education level?
3. What is your occupation?
4. What is your gender?
5. What is your English language level?

### Legal Question-Answering

The context of the survey is that you are a freelancer interested in signing a contract with one of your clients for the provision of your services. The main legal risk you are facing is the payment risk. You have three options to create a contract.

#### *OPTION 1*

Consult with a lawyer who will explain your potential legal risks in depth and provide you with an appropriate contract for the provision of services to your client.

Example: You are having a conversation with a lawyer, he explains your legal risk consequences, you provide your preferences, and he sends you a contract.

#### *OPTION 2*

Fill in an online form that will automatically generate a contract for you, which does not explain your potential legal risks.

Example: You are filling a form and then a contract is generated for you.

#### *OPTION 3*

Fill in an online form that includes a specific level of risk for each potential option you have in a contract and visually explains your legal risk, before automatically generating a contract for you.

Example: You are filling a form, select answers with the level of legal risk you are interested in taking, if desired you advise the visualization of risk and if necessary, you provide a request for additional legal risk protection, and only thereafter a contract is generated.

See below a visual example of how Option 3 works:

A. What is your preferred milestone plan?

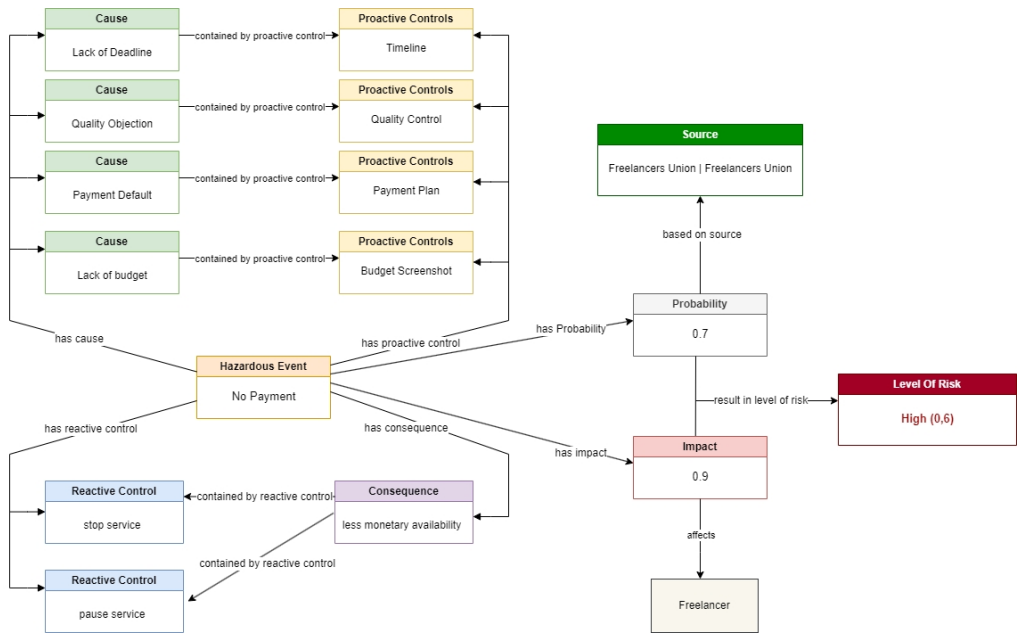
1. Final Delivery (Higher Risk)
2. Intake Final Delivery (Medium Risk)
3. Intake, Intermediate Milestones Final Delivery (Lower Risk)

B. What is your preferred payment schedule?

1. Final Delivery (Higher Risk)

- 2. Intake Final Delivery (Medium Risk)
- 3. Intake, Intermediate Milestones Final Delivery (Lower Risk)

If desired, consult the visualization of legal risk below and request additional legal risk protection before completing the questionnaire.



After consulting the questionnaire, would you be interested in additional legal risk protection?

Write answer:

**Main Question**

If you assume that from a scale of 1 to 10, Option 1 (lawyer) is the highest source of trustworthiness with level 10, Option 2 (form) is the lowest source of trustworthiness with level 1, then how would you rate Option 3 (form with legal risk explanation) from 1 to 10 in relation to trustworthiness?

By *trustworthy* we mean the level of trust you feel while answering the questions in relation to your legal rights and obligations.

Before rating Option 3, please consider the following measurements:

- 1 – 2 = not trustworthy
- 3 – 4 = slightly trustworthy
- 5 – 6 = quite trustworthy
- 7 – 8 = significantly trustworthy
- 9 – 10 = very trustworthy

Please rate Option 3 by highlighting one of the numbers below:

1 2 3 4 5 6 7 8 9 10

**Additional Questions**

Help us understand how Option 3 may affect your work. Before providing your answers, please consider the following measurements:

- 1 – 2 = not much
- 3 – 4 = slightly
- 5 – 6 = quite much
- 7 – 8 = significantly
- 9 – 10 = very much

To what extent does your productivity level increase with Option 3?

1 2 3 4 5 6 7 8 9 10

To what extent does your anxiety level decrease with Option 3?

1 2 3 4 5 6 7 8 9 10

To what extent does your satisfaction level increase with Option 3?

1 2 3 4 5 6 7 8 9 10

How likely are you to refer the Option 3 way of working to your peers?

1 2 3 4 5 6 7 8 9 10

**Your Feedback**

We would appreciate your qualitative feedback regarding this survey, please write it here:

**The end**

Thank you for participating in our survey.

To finalize your submission please save your document in PDF and send it back to us.

Appendix 3C: Explorative Survey Data

Reaction	
Trustworthiness	Increased by 6.9
Productivity	Increased by 6.7
Anxiety	Decreased by 6.7
Satisfaction	Increased by 6.9
Referral	Increased by 7.5



## **Appendix 4: Application Engineering**

The Appendix addresses 8 subappendices, which are as follows.

- 4A: Abstract Structure of Abduction
- 4B: Cohen's Kappa Coefficient Formula
- 4C: Cohen's Kappa Data For Raters
- 4D: Rater 1 and Rater 2 Values
- 4E: Contingency Table
- 4F: Onassis Ontology Web Application
- 4G: Example Onassis Ontology-Based Contract Data File
- 4H: LLM Experiment
- 4I: Logocratic Method Experiment

### Appendix 4A: Abstract Structure of Abduction

Premise $\varepsilon_1$	$\Theta$ [some phenomenon to be explained, the <i>explanandum</i> ]
Premise(s) $\varepsilon_{2n-m}$	For each candidate $\Phi_i$ , ' $\Phi_i \vee \rightarrow \Theta$ ' is true.  [' $\Phi_i \vee \rightarrow \Theta$ ' is the <i>plausibly serviceable explanation conditional</i> , read as 'if explanans $\Phi_i$ were true or otherwise warranted, it would provide a <i>plausibly serviceable explanation</i> of $\Theta$ .']
Premises $\varepsilon_3$ and $\varepsilon_4$	For candidate $\Phi_n$ , ' $\Phi_n \vee\vee \rightarrow \Theta$ ' is true.  [' $\Phi_n \vee\vee \rightarrow \Theta$ ' is the <i>most serviceable explanation conditional</i> , that is, the one member of the set of proposed explanations that, in the abductive reasoner's judgement, is the <i>most serviceable among the set of plausibly serviceable explanations</i> . This step is constituted by the disconfirmation of all of those plausibly serviceable explanations identified in the articulation of Premise(s) $\varepsilon_{2n-m}$ until one, $\Phi_n$ is 'left standing' to be endorsed as <i>the most serviceable explanation</i> . The Logocratic explanation of abduction, like the accounts that regard abduction as inference to a single best explanation among those that are plausible, regards all abductions as instances of what some philosophers refer to as <i>contrastive inferences</i> . <sup>67</sup> ]
Conclusion h	$\Phi_n$  [ $\Phi_n$ is the explanation identified in step $\varepsilon_3$ that is settled on as <i>the explanation</i> , the <i>explanans</i> of the explanandum.]

**Appendix 4B: Cohen's Kappa Coefficient Formula**

$$\kappa = \frac{p_0 - p_e}{1 - p_e},$$

## Appendix 4C: Cohen's Kappa Data For Raters

Number	Topic	Conversation	Clause	Main Risk	1. Do you identify variables in the conversation to update the clause? (Yes / No)	2. Are the variables equal to or more than three? (Yes / No)	3. Is the likelihood of the risk happening high? (Yes / No)	4. Is the impact of the risk happening high? (Yes / No)	5. Are the identified variables sufficient proactive controls to prevent the risk from occurring? (Yes / No)
1	Anti-Assignment	CR: Good morning, John. We want to ensure that MA cannot transfer any rights under this agreement without our prior written approval. MR: I understand, but the clause is restrictive. We need flexibility to manage operations. Can we adjust? CR: What adjustments do you propose? MR: Prior approval for internal transfers adds delays. Can we have exceptions for transfers within our corporate group? CR: We can consider that, with prior notification instead of approval. MR: Also, could criteria be set for third-party transfers, so approval isn't unreasonably withheld? CR: Agreed, with a 30-day response time and clear grounds for refusal. MR: Agreed. Let's draft the revised terms. MA may not assign, sell, lease or otherwise transfer in whole or in part any of the rights granted pursuant to this Agreement without prior written approval of Company. (Page 12) The clause might be overly restrictive, limiting MA's ability to manage its business effectively without sufficient flexibility.							
2	Audit Rights	CR: Good morning, John. We want transparency in sales records, requiring them within ten business days each month. MR: I understand, but ten days is tight. Could we extend it to twenty business days? CR: Twenty days is too long; how about fifteen business days? MR: Fifteen is better, but can we add a provision for extensions during peak times or system issues? CR: Agreed, with an extension of up to five days with notice. Also, we'll specify that reviews are conducted by authorized personnel with confidentiality agreements. MR: Agreed, and let's focus reviews on relevant records only. CR: Agreed. Let's draft the revised terms. MA shall keep accurate records of the sales of the Technology and Maintenance, including Client Registration Cards and shall make these records available for review by a representative of Company within ten (10) business days following the end of each month. (Page 4) Delayed access to records							
3	Cocenant not to Sue - Release of Claims	VR: Good morning, John. We need to discuss the non-contesting clause for intellectual property. We want to ensure mutual protection and avoid disputes. NR: Good morning, Jane. We're concerned about agreeing not to contest each other's IP indefinitely as it could limit our future strategies. Can we allow challenges if significant new information arises? VR: What mechanism do you suggest? NR: Allow challenges only with a significant, substantiated basis, and include mediation or an expert review before contesting. VR: Agreed. We'll define criteria, require mediation or expert review within 60 days, and ensure confidentiality. NR: Perfect. I'll draft the changes. Thanks for your flexibility. VR: Thank you, John. Let's finalize the details. "In addition, Neoforma shall not now or in the future contest the validity of VerticalNet's Intellectual Property. (Page 8) In addition, VerticalNet shall not now or in the future contest the validity of Neoforma's Intellectual Property (Page 8)" Potential disputes over the validity of intellectual property.							
4	Insurance	DR: Good morning, John. We need to discuss the insurance clause, particularly adding the Distributor to your insurance and maintaining adequate product liability coverage. SR: Good morning, Jane. AU\$10 million coverage is too high for us and would raise our premiums. Could we lower it to AU\$5 million? DR: AU\$5 million is lower than desired but could work with regular reviews. We need a guarantee for coverage increases if reviews indicate it's insufficient. Adding us to your insurance certificate is crucial. SR: Agreed on AU\$5 million with annual reviews and a 90-day adjustment period. We'll use a reputable insurer and ensure comprehensive terms. DR: That's acceptable. I'll draft the changes for review. Thanks, John. SR: Thank you, Jane. Let's finalize the details. "The Supplier shall add the distributor to their current insurance certificate. (Page 9) During the Term, the Supplier shall maintain product liability insurance with a reputable insurer of no less than AU\$10 million for any one occurrence for any and all liability (however arising) for a claim that the Products are faulty or defective. (Page 9)" Financial risk associated with inadequate product liability insurance coverage							
5	IP Ownership Agreement	VR: Good morning, John. We need to discuss the ownership clause for VOTOCAST Materials to ensure all rights are vested in VOTOCAST. LR: Good morning, Jane. We're concerned about automatic transfers affecting our IP rights. Can we clarify what constitutes "VOTOCAST Materials" to exclude pre-existing and independently developed IP? VR: We can define "VOTOCAST Materials" to include only materials developed for VOTOCAST. For improvements, how about a non-exclusive license to use them while you retain ownership? LR: That works, provided we retain commercialization rights. We also need a process for documenting improvements and compliance with IP laws. VR: Agreed. We'll include non-exclusive licenses, quarterly reviews, and ensure legal compliance. LR: That's acceptable. I'll draft the revisions. Thanks for your flexibility. VR: Thank you, John. Let's finalize the details. To the extent, if any, that ownership of the VOTOCAST Materials does not automatically vest in VOTOCAST by virtue of this Agreement or otherwise, Licensee hereby transfers and assigns to VOTOCAST all rights, title and interest which Licensee may have in and to the VOTOCAST Materials. (Page 3) Risk of inadvertently transferring pre-existing and independently developed intellectual property (IP)							
6	IP Ownership Assignment	CR: Good morning, John. We need to ensure that any trademark rights benefiting the Distributor are assigned back to the Company without charge. DR: Good morning, Jane. Automatic assignment without charge could impact our investments in marketing. Can we acknowledge our contributions to the brand? CR: How should we structure this recognition? DR: We could document significant marketing investments and offer co-branding opportunities or a marketing fund contribution in return. CR: Agreed, with immediate assignment of rights and concurrent recognition or compensation. We'll define significant investments and ensure the Distributor only receives recognition, not ownership. DR: Quarterly reviews for transparency sound good. I'll draft the							

terms. CR: Thank you, John. Let's finalize the details. Distributor shall assign to Company, without charge, any rights in the trademarks of Company that may inure to the benefit of Distributor pursuant to this Agreement or otherwise. (Page 10) Dispute over the evaluation and recognition of significant marketing investments.

- 7 License SR: Good morning, John. We need to discuss non-exclusive rights to use our Trade Marks for promoting and selling Products. We want to balance rights with brand protection. DR: Good morning, Jane. Non-exclusive rights might limit our market presence. Can we have some level of exclusivity in sub-territories or channels? SR: We can consider limited exclusivity in defined areas based on performance metrics like sales targets and marketing efforts. How about a three-year term with renewal options? DR: Agreed on the term and renewal options. We also need clear guidelines on trademark usage and regular brand audits. SR: We'll include those guidelines and quarterly audits. I'll draft the revised terms. DR: Thanks, Jane. Let's finalize the details.

The Supplier hereby grants to the Distributor the non-exclusive right, in the Territory, to use the Trade Marks in the promotion, advertisement and sale of the Products, subject to, and for the duration of, this agreement. (Page 7) Market Penetration Risk

- 8 Liquidated Damages AR: Good morning, John. We need to discuss the penalty clause of eighteen months' gross salary for violations. BR: Good morning, Jane. Eighteen months is too high and could be financially burdensome. Can we reduce it to twelve months? AR: Twelve months is lower than intended. How about fifteen months? BR: Fifteen months is closer but still concerning. Can we include mediation before enforcing the penalty, to resolve issues without immediate financial impact? AR: Agreed on mediation with a 30-day timeframe. The penalty will apply only to intentional and significant violations, and salary calculations will be based on the employees' current salary. BR: That works. I'll draft the revised terms. AR: Thanks, John. Let's finalize the details. In case of violation of this article, the Party shall pay to the other Party an equivalent of eighteen (18) months gross salary of the respective employee. (Page 28) Ambiguity in Salary Calculation

- 9 Minimum Commitment LR: Good morning, John. We need to discuss the clause requiring ten Licensed Programs to be available for free trials at all times. RR: Morning, Jane. Maintaining ten programs is demanding, especially with popular content. Can we reduce this to five programs, rotating them quarterly? LR: Five programs is a significant change, but quarterly rotation is appealing. We need to ensure a mix of popular and new content. RR: Agreed. We'll also provide additional marketing support and quarterly performance reports, including metrics and user feedback. We'll replace underperforming programs with mutual agreement. LR: That works. I'll draft the revised terms. RR: Thanks, Jane. Let's finalize the details. Licensor shall make available to Rogers, on a free trial basis and at no cost to Rogers, not less than ten (10) Licensed Programs at all times during the Term (each, a Promotional Program) for distribution and exhibition on the ROD Service to promote the Licensed Programs and the ROD Service. (Page 5) Demand on Resources

- 10 Most Favored Nation IR: Good morning, John. We need to discuss the clause on Page 3 about adjusting "free goods" limits if third-party licenses impose lower limits. This is crucial for compliance. TLR: Morning, Jane. We're concerned about unpredictable changes affecting our strategies. Can we include a notification and consultation process? IR: Agreed. We'll notify each other within 15 business days and hold a meeting to discuss adjustments. How about a 30-day grace period before new limits take effect? TLR: That works. We'll also make proportional adjustments and document the rationale and third-party requirements. IR: Perfect. I'll draft the revised terms. TLR: Thanks, Jane. Let's finalize the details. If for any reason, Integrity and TL are subject to lower "free goods" limits by any third party license, the foregoing shall be adjusted to comply with any such license(s). (Page 3) Lack of Transparency

**Appendix 4D: Rater 1 and Rater 2 Values**

No.	Identify Variables	Variables $\geq 3$	Risk Likelihood	Risk Impact	Sufficient Controls
1	Yes	Yes	Yes	Yes	No
2	Yes	Yes	Yes	Yes	No
3	Yes	No	Yes	Yes	Yes
4	Yes	Yes	Yes	Yes	No
5	Yes	Yes	Yes	Yes	No
6	Yes	Yes	Yes	Yes	Yes
7	Yes	Yes	Yes	Yes	Yes
8	Yes	No	Yes	Yes	No
9	Yes	Yes	Yes	Yes	No
10	Yes	Yes	Yes	Yes	No

No.	Identify Variables	Variables $\geq 3$	Risk Likelihood	Risk Impact	Sufficient Controls
1	Yes	Yes	Yes	Yes	No
2	Yes	No	Yes	Yes	Yes
3	Yes	No	Yes	Yes	Yes
4	Yes	No	Yes	Yes	No
5	Yes	Yes	Yes	Yes	No
6	Yes	Yes	Yes	Yes	Yes
7	Yes	Yes	Yes	Yes	Yes
8	Yes	Yes	Yes	Yes	No
9	Yes	Yes	Yes	Yes	No
10	Yes	Yes	Yes	Yes	No


**Appendix 4E: Contingency Table**

	<b>Yes</b>	<b>No</b>
<b>Yes</b>	39	2
<b>No</b>	2	7



Appendix 4F: Onassis Ontology Web Application

Front End user interface  
Startpage



OVERVIEW

Intelligent Contracts Experiment instructions

What is your name?

name

What is the name/number/identifier of the contract you will work on?

contract

Select the scope of the contract:

FREELANCE AGREEMENT

My name is .

I am working on contract .

With scope .


I am a

CLIENT

FREELANCER

LEGAL EXPERT

Entered user details  
Users: freelancer or client contractor, or legal expert



OVERVIEW

EVALUATE CONTRACT

VIEW FINAL CONTRACT DATA

Intelligent Contracts Experiment instructions

name

Klaas

What is your name?

contract

2

What is the name/number/identifier of the contract you will work on?

My name is *Klaas*.

I am working on contract *2*.

With scope *Freelance Agreement*.

I am a *legal\_expert*

CHANGE

You can now go to the contract drafting or evaluation page in the top menu

Answer contract template questions  
User: Contractor

Onassis

Contract

OVERVIEW

CONTRACT DRAFTING

Questions for *freelancer pieterman* for drafting contract 2

Please answer the following questions in order to come to a contract agreement.

What is your preferred milestone plan?

☐ Information gathering

☐ Draft design selection

☒ 1st Draft delivery

☐ 2nd Draft delivery

☐ Final delivery

Provide any additional information:

I want first ~~draft~~ as a ~~milestone~~

What is your preferred payment method?

☒ Cash

☐ Bank transfer

☐ Bitcoin

Provide any additional information:

What is your preferred payment schedule?

☒ Prepayment

Answer more contract template questions and additional questions  
User: Contractor

Onassis Contract

OVERVIEW

CONTRACT DRAFTING

What is your expected price for this project?

☐ €500-1000

☐ €1000-1500

☐ €1500-2000

☐ €2000-2500

☐ €2500-3000

Provide any additional information:

☐ I agree that my answers shall be subject to analysis for research purposes, and that all data will be stored and processed in accordance with the GDPR.

SUBMIT

CHECK FOR ADDITIONAL QUESTIONS

Question: what is problem?

ANSWER QUESTION

Let the legal expert know (e.g., via email) that you have answered this additional question.

Question: test

ANSWER QUESTION

Let the legal expert know (e.g., via email) that you have answered this additional question.

Question: as asd

ANSWER QUESTION

Let the legal expert know (e.g., via email) that you have answered this additional question.

Evaluate answers and draft contract text  
User: Legal expert

Grassis

Contract

OVERVIEW

EVALUATE CONTRACT

VIEW FINAL CONTRACT DATA

Evaluation of contract 2 by Legal expert *Klaas*

Please evaluate the following answers + questions to identify contract variables and risks.

Question: What is your preferred milestone plan? (MILESTONES)

Freelancer: [ "Draft design selection", "1st Draft delivery" ] (copy to contract)

Additional information provided: 111

Client: [ "Information gathering", "Draft design selection" ] (copy to contract)

Contract input:

Draft design selection,1st Draft delivery

Question: What is your preferred payment schedule? (DEADLINES)

Freelancer: [ "Final payment" ] (copy to contract)

Additional information provided: 222

Client: [ "Milestone payment" ] (copy to contract)

Additional information provided: Nee

Contract input:

Milestone payment

Question: What is your budget for this project? (amount)

(Question for freelancer: What is your expected price for this project?)

Freelancer: [ "2500-3000" ] (copy to contract)

Additional information provided: 333

Client: [ "2500-3000" ] (copy to contract)

Additional information provided: dd

Contract input:

2500-3000

Question: What is your preferred payment method? (X)

Freelancer: [ "Bitcoin" ] (copy to contract)

Additional information provided: 111

Client: [ "Cash" ] (copy to contract)

contract text

Freelance Agreement

A SCOPE

1 The undersigned, asdasd and pieterman are having discussions regarding the provision of freelance work by asdasd to pieterman.

B MILESTONES

1 asdasd and pieterman agree to schedule payments based on the following milestone plan: Draft design selection,1st Draft delivery Milestone payment.

C PAYMENT

1 The total budget is 2500-3000 and the payment method is Cash.

2 On the deadline of each milestone the pieterman will examine the quality of asdasd services and only if the quality is sufficient comply with payment obligation.

3 The asdasd has no obligation to deliver the services if any payment is not completed.

4 Refund is not possible.

D SIGNATURES

asdasd

pieterman

Evaluate risks, proactive controls, ask additional questions, evaluation additional answers (replies)  
User: Legal expert

Onasis Contract

OVERVIEWEVALUATE CONTRACTVIEW FINAL CONTRACT DATA

After evaluating the risks below and possibly asking additional questions, you can finalize the contract:

FINALIZE CONTRACT

Status message: successfully checked for additional question

Additional questions:

Ask additional question to freelancer and contractor:

ASK QUESTION

Question asked: what is problem?  
Question asked: test  
Question asked: as asd  
**Additional answers:**  
Question: what is problem?  
Answer (: no tienk  
Question: what is problem?  
Answer (:  
Question: what is problem?  
Answer (client): best  
Question: what is problem?  
Answer (freelancer): YAAAA  
Question: test  
Answer (client): yes  
Question: what is problem?  
Answer (client): nothienk  
Question: what is problem?  
Answer (client): Neeel

CHECK FOR MORE ANSWERS

RISKS:


- Event: no payment, [cause: lack of budget, proactive control: budget screenshot] [consequence: less work, less money, proactive control: stop services] affected party: both
- Event: no payment, [cause: payment default, proactive control: payment plan] [consequence: , proactive control: pause services] affected party: freelancer
- Event: no payment, [cause: quality objection, proactive control: quality control check] [consequence: , proactive control: pause services] affected party: both
- Event: no payment, [cause: lack of deadline, proactive control: timeline] [consequence: , proactive control: pause services] affected party: freelancer
- Event: exceeded deadline, [cause: delayed delivery, proactive control: consistent contract] [consequence: distribution of costs, proactive control: increase contact after delay for limited time] [consequence: seller reduced payment, proactive control: seller fine due to responsibility] affected party: client
- Event: exceeded deadline, [cause: delayed information provision, proactive control: strict deadline] [consequence: distribution of costs, proactive control: set mitigation deadlines] [consequence: buyer higher costs, proactive control: buyer fine due to responsibility] affected party: freelancer
- Event: exceeded deadline, [cause: false information provision, proactive control: quality control] [consequence: distribution of costs, proactive control: extend deadline bilaterally] [consequence: buyer higher costs, proactive control: buyer fine due to responsibility] affected party: freelancer
- Event: exceeded deadline, [cause: force majeure interruption, proactive control: ] [consequence: distribution of costs, proactive control: extend deadline bilaterally] affected party: client

Add additional risks:

name:

event:

Final contract overview  
Users: Legal expert and contractors



OVERVIEW

EVALUATE CONTRACT

VIEW FINAL CONTRACT DATA

Final contract 2

Your contract has been evaluated and is now ready

**Contract Text:**

Freelance Agreement

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3 The asdasd has no obligation to deliver the services if any payment is not completed.

4 Refund is not possible.

D SIGNATURES

asdasd

pieterman

**Linked Data version:**

@prefix dc: <http://purl.org/dc/elements/1.1/> .

@prefix owl: <http://www.w3.org/2002/07/owl#> .

@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .

@prefix xml: <http://www.w3.org/XML/1998/namespace> .

@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .

@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .

@prefix dcterms: <http://purl.org/dc/terms/> .

## Appendix 4G: Example Onassis Ontology-Based Contract Data File

```

@prefix dc: <http://purl.org/dc/elements/1.1/> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
@prefix xml: <http://www.w3.org/XML/1998/namespace> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix dcterms: <http://purl.org/dc/terms/> .
@prefix onassis: <http://ontology.tno.nl/onassis#> .
@prefix risk: <http://ontology.tno.nl/onassis/RiskManagement#> .
@prefix ex: <http://ontology.tno.nl/onassis/data#> .

ex:890 rdf:type onassis:Contract .
ex:890 onassis:contractID 100 ""^rdfs:Literal .

ex:890 onassis:involvesScope ex:5678 .
ex:5678 rdf:type onassis:Scope .
ex:5678 onassis:NaturalLanguageExpression Freelance Agreement""^rdfs:Literal .

ex:890 onassis:AgreementInContract ex:678 .
ex:678 rdf:type onassis:Agreement .

#connect contract to sections paragraphs and variables
ex:890 onassis:isRelatedTo ex:9000 .
ex:890 onassis:isRelatedTo ex:9001 .
ex:890 onassis:isRelatedTo ex:9002 .
ex:890 onassis:isRelatedTo ex:9003 .

ex:123 rdf:type onassis:Signature .
ex:123 onassis:signatureOnContract ex:890 .

ex:1 rdf:type onassis:Contractor .
ex:1 foaf:name contractorName1 ""^rdfs:Literal .
ex:1 onassis:NaturalLanguageExpression client ""^rdfs:Literal .
ex:678 onassis:involvesParties ex:1 .
ex:1 onassis:selectsScope ex:5678 .
ex:123 onassis:signatureBelongingTo ex:1

ex:2 rdf:type onassis:Contractor .
ex:2 foaf:name contractorName ""^rdfs:Literal .
ex:2 onassis:NaturalLanguageExpression freelancer ""^rdfs:Literal .
ex:678 onassis:involvesParties ex:2 .
ex:1 onassis:selectsScope ex:5678 .
ex:123 signatureBelongingTo ex:2

ex:3 rdf:type onassis:LegalExpert .
ex:3 foaf:name LegalPersonName ""^rdfs:Literal .
ex:678 onassis:involvesParties ex:3 .
#defines contract
ex:3 onassis:defines ex:890 .
#defines scope
ex:3 onassis:defines ex:5678 .

ex:14 onassis:hasVariableExpression ex:141 .
ex:141 rdf:type onassis:VariableExpression .
ex:141 onassis:NaturalLanguageExpression Draft design selection,1st Draft delivery""^rdfs:
Literal .

ex:15 onassis:hasVariableExpression ex:151 .
ex:151 rdf:type onassis:VariableExpression .
ex:151 onassis:NaturalLanguageExpression Milestone payment""^rdfs:Literal .

ex:16 onassis:hasVariableExpression ex:161 .
ex:161 rdf:type onassis:VariableExpression .
ex:161 onassis:NaturalLanguageExpression 2500 -3000""^rdfs:Literal .

ex:17 onassis:hasVariableExpression ex:171 .
ex:171 rdf:type onassis:VariableExpression .
ex:171 onassis:NaturalLanguageExpression Cash ""^rdfs:Literal .

#milestones question + answer
ex:140 rdf:type onassis:Question .
ex:140 onassis:NaturalLanguageExpression What is your preferred milestone plan?""^rdfs:Literal .

```



```

ex:1 onassis:replies ex:140 .
ex:2 onassis:replies ex:140 .
ex:3 onassis:writes ex:140 .
ex:678 onassis:agreementInvolvedIn ex:140 .
ex:140 onassis:hasAnswer ex:142 .
ex:140 onassis:hasAnswer ex:143 .

ex:142 rdf:type onassis:Answer .
ex:678 onassis:agreementInvolvedIn ex:142 .
ex:142 onassis:answerContainedIn ex:141
ex:142 onassis:answerProvidedBy ex:1
ex:142 onassis:NaturalLanguageExpression Information gathering , Draft design selection ""^rdfs:
Literal .

ex:143 rdf:type onassis:Answer .
ex:678 onassis:agreementInvolvedIn ex:143 .
ex:143 onassis:answerContainedIn ex:141
ex:143 onassis:answerProvidedBy ex:2
ex:143 onassis:NaturalLanguageExpression Draft design selection , 1st Draft delivery ""^rdfs:
Literal .

#deadlines(payment.schedule) question + answer
ex:150 rdf:type onassis:Question .
ex:150 onassis:NaturalLanguageExpression What is your preferred payment schedule?""^rdfs:Literal
.

ex:1 onassis:replies ex:150 .
ex:2 onassis:replies ex:150 .
ex:3 onassis:writes ex:150 .
ex:678 onassis:agreementInvolvedIn ex:150 .
ex:150 onassis:hasAnswer ex:152 .
ex:150 onassis:hasAnswer ex:153 .

ex:152 rdf:type onassis:Answer .
ex:678 onassis:agreementInvolvedIn ex:152 .
ex:152 onassis:answerContainedIn ex:151
ex:152 onassis:answerProvidedBy ex:1
ex:152 onassis:NaturalLanguageExpression Milestone payment""^rdfs:Literal .

ex:153 rdf:type onassis:Answer .
ex:678 onassis:agreementInvolvedIn ex:153 .
ex:153 onassis:answerContainedIn ex:151
ex:153 onassis:answerProvidedBy ex:2
ex:153 onassis:NaturalLanguageExpression Final payment""^rdfs:Literal .

#amount(price) question + answer
ex:160 rdf:type onassis:Question .
ex:160 onassis:NaturalLanguageExpression What is your budget for this project?""^rdfs:Literal .
ex:1 onassis:replies ex:160 .
ex:2 onassis:replies ex:160 .
ex:3 onassis:writes ex:160 .
ex:678 onassis:agreementInvolvedIn ex:160 .
ex:160 onassis:hasAnswer ex:162 .
ex:160 onassis:hasAnswer ex:163 .

ex:162 rdf:type onassis:Answer .
ex:678 onassis:agreementInvolvedIn ex:162 .
ex:162 onassis:answerContainedIn ex:161
ex:162 onassis:answerProvidedBy ex:1
ex:162 onassis:NaturalLanguageExpression 2500 -3000""^rdfs:Literal .

ex:163 rdf:type onassis:Answer .
ex:678 onassis:agreementInvolvedIn ex:163 .
ex:163 onassis:answerContainedIn ex:161
ex:163 onassis:answerProvidedBy ex:2
ex:163 onassis:NaturalLanguageExpression 2500 -3000""^rdfs:Literal .

#x(payment.method) question + answer
ex:170 rdf:type onassis:Question .
ex:170 onassis:NaturalLanguageExpression What is your preferred payment method?""^rdfs:Literal .
ex:1 onassis:replies ex:170 .
ex:2 onassis:replies ex:170 .
ex:3 onassis:writes ex:170 .
ex:678 onassis:agreementInvolvedIn ex:170 .
ex:170 onassis:hasAnswer ex:172 .
ex:170 onassis:hasAnswer ex:173 .

ex:172 rdf:type onassis:Answer .
ex:678 onassis:agreementInvolvedIn ex:172 .

```

```

ex:172 onassis:answerContainedIn ex:171
ex:172 onassis:answerProvidedBy ex:1
ex:172 onassis:NaturalLanguageExpression   Cash   ""^rdfs:Literal .

```

```

ex:173 rdf:type onassis:Answer .
ex:678 onassis:agreementInvolvedIn ex:173 .
ex:173 onassis:answerContainedIn ex:171
ex:173 onassis:answerProvidedBy ex:2
ex:173 onassis:NaturalLanguageExpression   Bitcoin ""^rdfs:Literal .

```

```

#additional question + answer
ex:1800 rdf:type onassis:Question .
ex:1800 onassis:NaturalLanguageExpression   what   is problem?""^rdfs:Literal .
ex:2 onassis:replies ex:1800 .
ex:3 onassis:writes ex:1800 .
ex:678 onassis:agreementInvolvedIn ex:1800 .
ex:1800 onassis:hasAnswer ex:1801 .

```

```

ex:1801 rdf:type onassis:Answer .
ex:678 onassis:agreementInvolvedIn ex:1801 .
ex:1801 onassis:NaturalLanguageExpression   no tienk ""^rdfs:Literal .
ex:1801 onassis:answerProvidedBy ex:2 .
ex:2 onassis:replies ex:1800 .

```

```

#additional question + answer
ex:1801 rdf:type onassis:Question .
ex:1801 onassis:NaturalLanguageExpression   what   is problem?""^rdfs:Literal .
ex:2 onassis:replies ex:1801 .
ex:3 onassis:writes ex:1801 .
ex:678 onassis:agreementInvolvedIn ex:1801 .
ex:1801 onassis:hasAnswer ex:1802 .

```

```

ex:1802 rdf:type onassis:Answer .
ex:678 onassis:agreementInvolvedIn ex:1802 .
ex:1802 onassis:NaturalLanguageExpression   undefined ""^rdfs:Literal .
ex:1802 onassis:answerProvidedBy ex:2 .
ex:2 onassis:replies ex:1801 .

```

```

#additional question + answer
ex:1802 rdf:type onassis:Question .
ex:1802 onassis:NaturalLanguageExpression   what   is problem?""^rdfs:Literal .
ex:2 onassis:replies ex:1802 .
ex:3 onassis:writes ex:1802 .
ex:678 onassis:agreementInvolvedIn ex:1802 .
ex:1802 onassis:hasAnswer ex:1803 .

```

```

ex:1803 rdf:type onassis:Answer .
ex:678 onassis:agreementInvolvedIn ex:1803 .
ex:1803 onassis:NaturalLanguageExpression   best   ""^rdfs:Literal .
ex:1803 onassis:answerProvidedBy ex:1 .
ex:1 onassis:replies ex:1802 .

```

```

#additional question + answer
ex:1803 rdf:type onassis:Question .
ex:1803 onassis:NaturalLanguageExpression   what   is problem?""^rdfs:Literal .
ex:2 onassis:replies ex:1803 .
ex:3 onassis:writes ex:1803 .
ex:678 onassis:agreementInvolvedIn ex:1803 .
ex:1803 onassis:hasAnswer ex:1804 .

```

```

ex:1804 rdf:type onassis:Answer .
ex:678 onassis:agreementInvolvedIn ex:1804 .
ex:1804 onassis:NaturalLanguageExpression   YAAAA ""^rdfs:Literal .
ex:1804 onassis:answerProvidedBy ex:2 .
ex:2 onassis:replies ex:1803 .

```

```

#additional question + answer
ex:1804 rdf:type onassis:Question .
ex:1804 onassis:NaturalLanguageExpression   test   ""^rdfs:Literal .
ex:2 onassis:replies ex:1804 .
ex:3 onassis:writes ex:1804 .
ex:678 onassis:agreementInvolvedIn ex:1804 .

```

```

ex:1804 onassis:hasAnswer ex:1805 .

ex:1805 rdf:type onassis:Answer .
ex:678 onassis:agreementInvolvedIn ex:1805 .
ex:1805 onassis:NaturalLanguageExpression yes ""^^rdfs:Literal .
ex:1805 onassis:answerProvidedBy ex:1 .
ex:1 onassis:replies ex:1804 .

#additional question + answer
ex:1805 rdf:type onassis:Question .
ex:1805 onassis:NaturalLanguageExpression what is problem?""^^rdfs:Literal .
ex:2 onassis:replies ex:1805 .
ex:3 onassis:writes ex:1805 .
ex:678 onassis:agreementInvolvedIn ex:1805 .
ex:1805 onassis:hasAnswer ex:1806 .

ex:1806 rdf:type onassis:Answer .
ex:678 onassis:agreementInvolvedIn ex:1806 .
ex:1806 onassis:NaturalLanguageExpression nothienk ""^^rdfs:Literal .
ex:1806 onassis:answerProvidedBy ex:1 .
ex:1 onassis:replies ex:1805 .

#additional question + answer
ex:1806 rdf:type onassis:Question .
ex:1806 onassis:NaturalLanguageExpression what is problem?""^^rdfs:Literal .
ex:2 onassis:replies ex:1806 .
ex:3 onassis:writes ex:1806 .
ex:678 onassis:agreementInvolvedIn ex:1806 .
ex:1806 onassis:hasAnswer ex:1807 .

ex:1807 rdf:type onassis:Answer .
ex:678 onassis:agreementInvolvedIn ex:1807 .
ex:1807 onassis:NaturalLanguageExpression Nee !""^^rdfs:Literal .
ex:1807 onassis:answerProvidedBy ex:1 .
ex:1 onassis:replies ex:1806 .

ex:250 rdf:type onassis:Risk
ex:250 onassis:NaturalLanguageExpression budget ""^^rdfs:Literal .
ex:250 risk:involvesHazardousEvent ex:251 .
ex:3 onassis:defines ex:250 .
ex:890 onassis:hasRisk ex:250 .
ex:678 onassis:hasRisk ex:250 .

ex:251 rdf:type risk:HazardousEvent .
ex:251 onassis:NaturalLanguageExpression no payment""^^rdfs:Literal .
ex:251 risk:hasProbability ex:2505 .
ex:251 risk:hasImpact ex:2503 .

ex:2502 rdf:type risk:Source .
ex:251 onassis:NaturalLanguageExpression ""^^rdfs:Literal .

ex:2503 rdf:type risk:Impact .
ex:251 onassis:NaturalLanguageExpression ""^^rdfs:Literal .
ex:2503 risk:resultInLevelOfRisk ex:2504 .
ex:2503 risk:basedOnSource ex:2502 .
ex:2503 risk:affects ex:1
ex:2503 risk:affects ex:2

ex:2504 rdf:type risk:LevelOfRisk .
ex:251 onassis:NaturalLanguageExpression ""^^rdfs:Literal .
ex:2504 risk:isInvolvedInRisk ex:250 .

ex:2505 rdf:type risk:Probability .
ex:251 onassis:NaturalLanguageExpression ""^^rdfs:Literal .
ex:2505 risk:resultInLevelOfRisk ex:2504 .
ex:2505 risk:basedOnSource ex:2502 .

ex:2507 rdf:type risk:Cause .
ex:2507 onassis:NaturalLanguageExpression lack of budget""^^rdfs:Literal .
ex:251 risk:hasCause ex:2507 .
ex:2509 risk:containedByReactiveControl ex:2508 .

ex:2508 rdf:type risk:ProactiveControl .
ex:2508 onassis:NaturalLanguageExpression budget screenshot""^^rdfs:Literal .
ex:251 risk:hasProactiveControl ex:2508 .

```

```

ex:2511 rdf:type risk:Consequence .
ex:2511 onassis:NaturalLanguageExpression less work, less money""^rdfs:Literal .
ex:251 risk:hasConsequence ex:2511 .
ex:2511 risk:containedByReactiveControl ex:2512 .

ex:2512 rdf:type risk:ReactiveControl .
ex:2512 onassis:NaturalLanguageExpression stop services""^rdfs:Literal .
ex:251 risk:hasReactiveControl ex:2512 .

ex:2506 rdf:type onassis:Risk
ex:2506 onassis:NaturalLanguageExpression payment ""^rdfs:Literal .
ex:2506 risk:involvesHazardousEvent ex:2507 .
ex:3 onassis:defines ex:2506 .
ex:890 onassis:hasRisk ex:2506 .
ex:678 onassis:hasRisk ex:2506 .

ex:2507 rdf:type risk:HazardousEvent .
ex:2507 onassis:NaturalLanguageExpression no payment""^rdfs:Literal .
ex:2507 risk:hasProbability ex:2511 .
ex:2507 risk:hasImpact ex:2509 .

ex:2508 rdf:type risk:Source .
ex:2507 onassis:NaturalLanguageExpression ""^rdfs:Literal .

ex:2509 rdf:type risk:Impact .
ex:2507 onassis:NaturalLanguageExpression ""^rdfs:Literal .
ex:2509 risk:resultInLevelOfRisk ex:2510 .
ex:2509 risk:basedOnSource ex:2508 .
ex:2509 risk:affects ex:2

ex:2510 rdf:type risk:LevelOfRisk .
ex:2507 onassis:NaturalLanguageExpression ""^rdfs:Literal .
ex:2510 risk:isInvolvedInRisk ex:2506 .

ex:2511 rdf:type risk:Probability .
ex:2507 onassis:NaturalLanguageExpression ""^rdfs:Literal .
ex:2511 risk:resultInLevelOfRisk ex:2510 .
ex:2511 risk:basedOnSource ex:2508 .

ex:2513 rdf:type risk:Cause .
ex:2513 onassis:NaturalLanguageExpression payment default""^rdfs:Literal .
ex:2507 risk:hasCause ex:2513 .
ex:2515 risk:containedByReactiveControl ex:2514 .

ex:2514 rdf:type risk:ProactiveControl .
ex:2514 onassis:NaturalLanguageExpression payment plan""^rdfs:Literal .
ex:2507 risk:hasProactiveControl ex:2514 .

ex:2517 rdf:type risk:Consequence .
ex:2517 onassis:NaturalLanguageExpression ""^rdfs:Literal .
ex:2507 risk:hasConsequence ex:2517 .
ex:2517 risk:containedByReactiveControl ex:2518 .

ex:2518 rdf:type risk:ReactiveControl .
ex:2518 onassis:NaturalLanguageExpression pause services""^rdfs:Literal .
ex:2507 risk:hasReactiveControl ex:2518 .

ex:2512 rdf:type onassis:Risk
ex:2512 onassis:NaturalLanguageExpression quality ""^rdfs:Literal .
ex:2512 risk:involvesHazardousEvent ex:2513 .
ex:3 onassis:defines ex:2512 .
ex:890 onassis:hasRisk ex:2512 .
ex:678 onassis:hasRisk ex:2512 .

ex:2513 rdf:type risk:HazardousEvent .
ex:2513 onassis:NaturalLanguageExpression no payment""^rdfs:Literal .
ex:2513 risk:hasProbability ex:2517 .
ex:2513 risk:hasImpact ex:2515 .

ex:2514 rdf:type risk:Source .
ex:2513 onassis:NaturalLanguageExpression ""^rdfs:Literal .

ex:2515 rdf:type risk:Impact .
ex:2513 onassis:NaturalLanguageExpression ""^rdfs:Literal .
ex:2515 risk:resultInLevelOfRisk ex:2516 .
ex:2515 risk:basedOnSource ex:2514 .
ex:2515 risk:affects ex:1
ex:2515 risk:affects ex:2

```

```

ex:2516 rdf:type risk:LevelOfRisk .
ex:2513 onassis:NaturalLanguageExpression    ""^rdfs:Literal .
ex:2516 risk:isInvolvedInRisk ex:2512 .

ex:2517 rdf:type risk:Probability .
ex:2513 onassis:NaturalLanguageExpression    ""^rdfs:Literal .
ex:2517 risk:resultInLevelOfRisk ex:2516 .
ex:2517 risk:basedOnSource ex:2514 .

ex:2519 rdf:type risk:Cause .
ex:2519 onassis:NaturalLanguageExpression    quality    objection""^rdfs:Literal .
ex:2513 risk:hasCause ex:2519 .
ex:2521 risk:containedByReactiveControl ex:2520 .

ex:2520 rdf:type risk:ProactiveControl .
ex:2520 onassis:NaturalLanguageExpression    quality    control    check""^rdfs:Literal .
ex:2513 risk:hasProactiveControl ex:2520 .

ex:2523 rdf:type risk:Consequence .
ex:2523 onassis:NaturalLanguageExpression    ""^rdfs:Literal .
ex:2513 risk:hasConsequence ex:2523 .
ex:2523 risk:containedByReactiveControl ex:2524 .

ex:2524 rdf:type risk:ReactiveControl .
ex:2524 onassis:NaturalLanguageExpression    pause    services""^rdfs:Literal .
ex:2513 risk:hasReactiveControl ex:2524 .

ex:2518 rdf:type onassis:Risk
ex:2518 onassis:NaturalLanguageExpression    deadline    ""^rdfs:Literal .
ex:2518 risk:involvesHazardousEvent ex:2519 .
ex:3 onassis:defines ex:2518 .
ex:890 onassis:hasRisk ex:2518 .
ex:678 onassis:hasRisk ex:2518 .

ex:2519 rdf:type risk:HazardousEvent .
ex:2519 onassis:NaturalLanguageExpression    no    payment""^rdfs:Literal .
ex:2519 risk:hasProbability ex:2523 .
ex:2519 risk:hasImpact ex:2521 .

ex:2520 rdf:type risk:Source .
ex:2519 onassis:NaturalLanguageExpression    ""^rdfs:Literal .

ex:2521 rdf:type risk:Impact .
ex:2519 onassis:NaturalLanguageExpression    ""^rdfs:Literal .
ex:2521 risk:resultInLevelOfRisk ex:2522 .
ex:2521 risk:basedOnSource ex:2520 .
ex:2521 risk:affects ex:2

ex:2522 rdf:type risk:LevelOfRisk .
ex:2519 onassis:NaturalLanguageExpression    ""^rdfs:Literal .
ex:2522 risk:isInvolvedInRisk ex:2518 .

ex:2523 rdf:type risk:Probability .
ex:2519 onassis:NaturalLanguageExpression    ""^rdfs:Literal .
ex:2523 risk:resultInLevelOfRisk ex:2522 .
ex:2523 risk:basedOnSource ex:2520 .

ex:2525 rdf:type risk:Cause .
ex:2525 onassis:NaturalLanguageExpression    lack    of    deadline""^rdfs:Literal .
ex:2519 risk:hasCause ex:2525 .
ex:2527 risk:containedByReactiveControl ex:2526 .

ex:2526 rdf:type risk:ProactiveControl .
ex:2526 onassis:NaturalLanguageExpression    timeline    ""^rdfs:Literal .
ex:2519 risk:hasProactiveControl ex:2526 .

ex:2529 rdf:type risk:Consequence .
ex:2529 onassis:NaturalLanguageExpression    ""^rdfs:Literal .
ex:2519 risk:hasConsequence ex:2529 .
ex:2529 risk:containedByReactiveControl ex:2530 .

ex:2530 rdf:type risk:ReactiveControl .
ex:2530 onassis:NaturalLanguageExpression    pause    services""^rdfs:Literal .
ex:2519 risk:hasReactiveControl ex:2530 .

ex:2524 rdf:type onassis:Risk
ex:2524 onassis:NaturalLanguageExpression    delivery    delay""^rdfs:Literal .

```

```

ex:2524 risk:involvesHazardousEvent ex:2525 .
ex:3 onassis:defines ex:2524 .
ex:890 onassis:hasRisk ex:2524 .
ex:678 onassis:hasRisk ex:2524 .

ex:2525 rdf:type risk:HazardousEvent .
ex:2525 onassis:NaturalLanguageExpression exceeded deadline""^rdfs:Literal .
ex:2525 risk:hasProbability ex:2529 .
ex:2525 risk:hasImpact ex:2527 .

ex:2526 rdf:type risk:Source .
ex:2525 onassis:NaturalLanguageExpression ""^rdfs:Literal .

ex:2527 rdf:type risk:Impact .
ex:2525 onassis:NaturalLanguageExpression ""^rdfs:Literal .
ex:2527 risk:resultInLevelOfRisk ex:2528 .
ex:2527 risk:basedOnSource ex:2526 .
ex:2527 risk:affects ex:1

ex:2528 rdf:type risk:LevelOfRisk .
ex:2525 onassis:NaturalLanguageExpression ""^rdfs:Literal .
ex:2528 risk:isInvolvedInRisk ex:2524 .

ex:2529 rdf:type risk:Probability .
ex:2525 onassis:NaturalLanguageExpression ""^rdfs:Literal .
ex:2529 risk:resultInLevelOfRisk ex:2528 .
ex:2529 risk:basedOnSource ex:2526 .

ex:2531 rdf:type risk:Cause .
ex:2531 onassis:NaturalLanguageExpression delayed delivery""^rdfs:Literal .
ex:2525 risk:hasCause ex:2531 .
ex:2533 risk:containedByReactiveControl ex:2532 .

ex:2532 rdf:type risk:ProactiveControl .
ex:2532 onassis:NaturalLanguageExpression consistent contract""^rdfs:Literal .
ex:2525 risk:hasProactiveControl ex:2532 .

ex:2535 rdf:type risk:Consequence .
ex:2535 onassis:NaturalLanguageExpression distribution of costs""^rdfs:Literal .
ex:2525 risk:hasConsequence ex:2535 .
ex:2535 risk:containedByReactiveControl ex:2536 .

ex:2536 rdf:type risk:ReactiveControl .
ex:2536 onassis:NaturalLanguageExpression increase contact after delay for limited time""^
rdfs:Literal .
ex:2525 risk:hasReactiveControl ex:2536 .

ex:2537 rdf:type risk:Consequence .
ex:2537 onassis:NaturalLanguageExpression seller reduced payment""^rdfs:Literal .
ex:2525 risk:hasConsequence ex:2537 .
ex:2537 risk:containedByReactiveControl ex:2538 .

ex:2538 rdf:type risk:ReactiveControl .
ex:2538 onassis:NaturalLanguageExpression seller fine due to responsibility""^rdfs:Literal .
ex:2525 risk:hasReactiveControl ex:2538 .

ex:2532 rdf:type onassis:Risk
ex:2532 onassis:NaturalLanguageExpression information delay""^rdfs:Literal .
ex:2532 risk:involvesHazardousEvent ex:2533 .
ex:3 onassis:defines ex:2532 .
ex:890 onassis:hasRisk ex:2532 .
ex:678 onassis:hasRisk ex:2532 .

ex:2533 rdf:type risk:HazardousEvent .
ex:2533 onassis:NaturalLanguageExpression exceeded deadline""^rdfs:Literal .
ex:2533 risk:hasProbability ex:2537 .
ex:2533 risk:hasImpact ex:2535 .

ex:2534 rdf:type risk:Source .
ex:2533 onassis:NaturalLanguageExpression ""^rdfs:Literal .

ex:2535 rdf:type risk:Impact .
ex:2533 onassis:NaturalLanguageExpression ""^rdfs:Literal .
ex:2535 risk:resultInLevelOfRisk ex:2536 .
ex:2535 risk:basedOnSource ex:2534 .
ex:2535 risk:affects ex:2

ex:2536 rdf:type risk:LevelOfRisk .

```

```

ex:2533 onassis:NaturalLanguageExpression    ""^rdfs:Literal .
ex:2536 risk:isInvolvedInRisk ex:2532 .

ex:2537 rdf:type risk:Probability .
ex:2533 onassis:NaturalLanguageExpression    ""^rdfs:Literal .
ex:2537 risk:resultInLevelOfRisk ex:2536 .
ex:2537 risk:basedOnSource ex:2534 .

ex:2539 rdf:type risk:Cause .
ex:2539 onassis:NaturalLanguageExpression    delayed    information provision""^rdfs:Literal .
ex:2533 risk:hasCause ex:2539 .
ex:2541 risk:containedByReactiveControl ex:2540 .

ex:2540 rdf:type risk:ProactiveControl .
ex:2540 onassis:NaturalLanguageExpression    strict    deadline""^rdfs:Literal .
ex:2533 risk:hasProactiveControl ex:2540 .

ex:2543 rdf:type risk:Consequence .
ex:2543 onassis:NaturalLanguageExpression    distribution    of costs""^rdfs:Literal .
ex:2533 risk:hasConsequence ex:2543 .
ex:2543 risk:containedByReactiveControl ex:2544 .

ex:2544 rdf:type risk:ReactiveControl .
ex:2544 onassis:NaturalLanguageExpression    set    mitigation deadlines""^rdfs:Literal .
ex:2533 risk:hasReactiveControl ex:2544 .

ex:2545 rdf:type risk:Consequence .
ex:2545 onassis:NaturalLanguageExpression    buyer    higher costs""^rdfs:Literal .
ex:2533 risk:hasConsequence ex:2545 .
ex:2545 risk:containedByReactiveControl ex:2546 .

ex:2546 rdf:type risk:ReactiveControl .
ex:2546 onassis:NaturalLanguageExpression    buyer    fine due to responsibility""^rdfs:Literal .
ex:2533 risk:hasReactiveControl ex:2546 .

ex:2540 rdf:type onassis:Risk
ex:2540 onassis:NaturalLanguageExpression    false    information""^rdfs:Literal .
ex:2540 risk:involvesHazardousEvent ex:2541 .
ex:3 onassis:defines ex:2540 .
ex:890 onassis:hasRisk ex:2540 .
ex:678 onassis:hasRisk ex:2540 .

ex:2541 rdf:type risk:HazardousEvent .
ex:2541 onassis:NaturalLanguageExpression    exceeded    deadline""^rdfs:Literal .
ex:2541 risk:hasProbability ex:2545 .
ex:2541 risk:hasImpact ex:2543 .

ex:2542 rdf:type risk:Source .
ex:2541 onassis:NaturalLanguageExpression    ""^rdfs:Literal .

ex:2543 rdf:type risk:Impact .
ex:2541 onassis:NaturalLanguageExpression    ""^rdfs:Literal .
ex:2543 risk:resultInLevelOfRisk ex:2544 .
ex:2543 risk:basedOnSource ex:2542 .
ex:2543 risk:affects ex:2

ex:2544 rdf:type risk:LevelOfRisk .
ex:2541 onassis:NaturalLanguageExpression    ""^rdfs:Literal .
ex:2544 risk:isInvolvedInRisk ex:2540 .

ex:2545 rdf:type risk:Probability .
ex:2541 onassis:NaturalLanguageExpression    ""^rdfs:Literal .
ex:2545 risk:resultInLevelOfRisk ex:2544 .
ex:2545 risk:basedOnSource ex:2542 .

ex:2547 rdf:type risk:Cause .
ex:2547 onassis:NaturalLanguageExpression    false    information provision""^rdfs:Literal .
ex:2541 risk:hasCause ex:2547 .
ex:2549 risk:containedByReactiveControl ex:2548 .

ex:2548 rdf:type risk:ProactiveControl .
ex:2548 onassis:NaturalLanguageExpression    quality    control""^rdfs:Literal .
ex:2541 risk:hasProactiveControl ex:2548 .

ex:2551 rdf:type risk:Consequence .
ex:2551 onassis:NaturalLanguageExpression    distribution    of costs""^rdfs:Literal .
ex:2541 risk:hasConsequence ex:2551 .
ex:2551 risk:containedByReactiveControl ex:2552 .

```

```

ex:2552 rdf:type risk:ReactiveControl .
ex:2552 onassis:NaturalLanguageExpression extend deadline bilaterally ""^rdfs:Literal .
ex:2541 risk:hasReactiveControl ex:2552 .

ex:2553 rdf:type risk:Consequence .
ex:2553 onassis:NaturalLanguageExpression buyer higher costs ""^rdfs:Literal .
ex:2541 risk:hasConsequence ex:2553 .
ex:2553 risk:containedByReactiveControl ex:2554 .

ex:2554 rdf:type risk:ReactiveControl .
ex:2554 onassis:NaturalLanguageExpression buyer fine due to responsibility ""^rdfs:Literal .
ex:2541 risk:hasReactiveControl ex:2554 .

ex:2548 rdf:type onassis:Risk
ex:2548 onassis:NaturalLanguageExpression force majeure ""^rdfs:Literal .
ex:2548 risk:involvesHazardousEvent ex:2549 .
ex:3 onassis:defines ex:2548 .
ex:890 onassis:hasRisk ex:2548 .
ex:678 onassis:hasRisk ex:2548 .

ex:2549 rdf:type risk:HazardousEvent .
ex:2549 onassis:NaturalLanguageExpression exceeded deadline ""^rdfs:Literal .
ex:2549 risk:hasProbability ex:2553 .
ex:2549 risk:hasImpact ex:2551 .

ex:2550 rdf:type risk:Source .
ex:2549 onassis:NaturalLanguageExpression ""^rdfs:Literal .

ex:2551 rdf:type risk:Impact .
ex:2549 onassis:NaturalLanguageExpression ""^rdfs:Literal .
ex:2551 risk:resultInLevelOfRisk ex:2552 .
ex:2551 risk:basedOnSource ex:2550 .
ex:2551 risk:affects ex:1

ex:2552 rdf:type risk:LevelOfRisk .
ex:2549 onassis:NaturalLanguageExpression ""^rdfs:Literal .
ex:2552 risk:isInvolvedInRisk ex:2548 .

ex:2553 rdf:type risk:Probability .
ex:2549 onassis:NaturalLanguageExpression ""^rdfs:Literal .
ex:2553 risk:resultInLevelOfRisk ex:2552 .
ex:2553 risk:basedOnSource ex:2550 .

ex:2555 rdf:type risk:Cause .
ex:2555 onassis:NaturalLanguageExpression force majeure interruption ""^rdfs:Literal .
ex:2549 risk:hasCause ex:2555 .
ex:2557 risk:containedByReactiveControl ex:2556 .

ex:2556 rdf:type risk:ProactiveControl .
ex:2556 onassis:NaturalLanguageExpression ""^rdfs:Literal .
ex:2549 risk:hasProactiveControl ex:2556 .

ex:2559 rdf:type risk:Consequence .
ex:2559 onassis:NaturalLanguageExpression distribution of costs ""^rdfs:Literal .
ex:2549 risk:hasConsequence ex:2559 .
ex:2559 risk:containedByReactiveControl ex:2560 .

ex:2560 rdf:type risk:ReactiveControl .
ex:2560 onassis:NaturalLanguageExpression extend deadline bilaterally ""^rdfs:Literal .
ex:2549 risk:hasReactiveControl ex:2560 .

ex:9000 rdf:type onassis:section .
ex:9000 onassis:hasOrderNumber 1 .
ex:9000 onassis:hasTopic ex:888 .
ex:888 rdf:type onassis:SectionTopic .
ex:888 onassis:NaturalLanguageExpression A Scope ""^rdfs:Literal .

ex:9000 onassis:isRelatedTo ex:901 .

#paragraph locus 1 in section ex:9000 .

ex:901 rdf:type onassis:Paragraph .
ex:901 onassis:isRelatedTo ex:9000 .
ex:901 onassis:hasOrderNumber 1 .

#paragraph expression locus 1 in paragraph ex:901. It reads: 1 The undersigned, .

```



```

ex:901 onassis:hasParagraphExpression ex:78.
ex:78 rdf:type onassis:ParagraphExpression.
ex:78 onassis:NaturalLanguageExpression 1 The undersigned""^rdf:Literal.
ex:78 onassis:hasOrderNumber 1.

#variable locus 2 in paragraph ex:901. [NAME1]

Ex901 onassis:hasVariable ex:08.
ex:08 rdf:type onassis:Variable.
ex:08 onassis:hasOrderNumber 2.

#paragraph expression locus 3 in paragraph ex:901. It reads: and .

ex:901 onassis:hasParagraphExpression ex:79.
ex:79 rdf:type onassis:ParagraphExpression.
ex:79 onassis:NaturalLanguageExpression and ""^rdf:Literal.
ex:79 onassis:hasOrderNumber 3.

#variable locus 4 in paragraph ex:901. [NAME2]

Ex901 onassis:hasVariable ex:09.
ex:09 rdf:type onassis:Variable.
ex:09 onassis:hasOrderNumber 4.

#paragraph expression locus 5 in paragraph ex:901. It reads: are having discussions regarding
the provision of freelance work by .

ex:901 onassis:hasParagraphExpression ex:80.
ex:80 rdf:type onassis:ParagraphExpression.
ex:80 onassis:NaturalLanguageExpression are having discussions regarding the provision of
freelance work by ""^rdf:Literal.
ex:80 onassis:hasOrderNumber 5.

#variable locus 6 in paragraph ex:901. [NAME1]

Ex901 onassis:hasVariable ex:08.
ex:08 onassis:hasOrderNumber 6.

#paragraph expression locus 7 in paragraph ex:901. It reads: to .

ex:901 onassis:hasParagraphExpression ex:81.
ex:81 rdf:type onassis:ParagraphExpression.
ex:81 onassis:NaturalLanguageExpression to ""^rdf:Literal.
ex:81 onassis:hasOrderNumber 7.

#variable locus 8 in paragraph ex:901. [NAME2]
Ex901 onassis:hasVariable ex:09.
ex:09 onassis:hasOrderNumber 8.

#section locus 2 and section topic B MILESTONES.

ex:9001 rdf:type onassis:section.
ex:9001 onassis:hasOrderNumber 2.
ex:9001 onassis:hasTopic ex:889.
ex:889 rdf:type onassis:SectionTopic.
ex:889 onassis:NaturalLanguageExpression B MILESTONES""^rdf:Literal.
ex:9001 onassis:isRelatedTo ex:902.

#paragraph locus 1 in section ex:9001 .

ex:902 rdf:type onassis:Paragraph.
ex:902 onassis:isRelatedTo ex:9001.
ex:902 onassis:hasOrderNumber 1.

#paragraph expression locus 1 in paragraph ex:902. It reads: 1 .

ex:902 onassis:hasParagraphExpression ex:200.
ex:200 rdf:type onassis:ParagraphExpression.
ex:200 onassis:NaturalLanguageExpression 1 ""^rdf:Literal.
ex:200 onassis:hasOrderNumber 1.

#variable locus 2 in paragraph ex:902. [NAME1]
Ex902 onassis:hasVariable ex:08.
ex:08 onassis:hasOrderNumber 2.

#paragraph expression locus 3 in paragraph ex:902. It reads: and .

```

```

ex:902 onassis:hasParagraphExpression ex:201.
ex:201 rdf:type onassis:ParagraphExpression.
ex:201 onassis:NaturalLanguageExpression and ""^rdfs:Literal.
ex:201 onassis:hasOrderNumber 3.

#variable locus 4 in paragraph ex:902. [NAME2]
Ex902 onassis:hasVariable ex:09.
ex:09 onassis:hasOrderNumber 4.

#paragraph expression locus 5 in paragraph ex:902. It reads: agree to schedule payments based on
the following milestone plan: .

ex:902 onassis:hasParagraphExpression ex:202.
ex:202 rdf:type onassis:ParagraphExpression.
ex:202 onassis:NaturalLanguageExpression agree to schedule payments based on the following
milestone plan: ""^rdfs:Literal.
ex:202 onassis:hasOrderNumber 5.

#variable locus 6 in paragraph ex:902. [MILESTONES]
Ex902 onassis:hasVariable ex:14.
ex:14 rdf:type onassis:Variable.
ex:14 onassis:hasOrderNumber 6.

#variable locus 7 in paragraph ex:902. [DEADLINES]
Ex902 onassis:hasVariable ex:15.
ex:15 rdf:type onassis:Variable.
ex:15 onassis:hasOrderNumber 7.

#section locus 3 and section topic C Payment.

ex:9002 rdf:type onassis:section.
ex:9002 onassis:hasOrderNumber 3.
ex:9002 onassis:hasTopic ex:7000.
ex:7000 rdf:type onassis:SectionTopic.
ex:7000 onassis:NaturalLanguageExpression C PAYMENT""^rdfs:Literal.
ex:9002 onassis:isRelatedTo ex:600.
ex:9002 onassis:isRelatedTo ex:601.
ex:9002 onassis:isRelatedTo ex:602.
ex:9002 onassis:isRelatedTo ex:603.

#paragraph locus 1 in section ex:9002 .

ex:600 rdf:type onassis:Paragraph.
ex:600 onassis:isRelatedTo ex:9002.
ex:600 onassis:hasOrderNumber 1.

#paragraph expression locus 1 in paragraph ex:600. It reads: 1 The total budget is .

ex:600 onassis:hasParagraphExpression ex:50.
ex:50 rdf:type onassis:ParagraphExpression.
ex:50 onassis:NaturalLanguageExpression 1 The total budget is ""^rdfs:Literal.
ex:50 onassis:hasOrderNumber 1.

#variable locus 2 in paragraph ex:600. [amount]
ex:600 onassis:hasVariable ex:16.
ex:16 rdf:type onassis:Variable.
ex:16 onassis:hasOrderNumber 2.

#paragraph expression locus 3 in paragraph ex:600. It reads: and the payment method is .
ex:600 onassis:hasParagraphExpression ex:51.
ex:51 rdf:type onassis:ParagraphExpression.
ex:51 onassis:NaturalLanguageExpression and the payment method is ""^rdfs:Literal.
ex:51 onassis:hasOrderNumber 3.

#variable locus 4 in paragraph ex:600. [x]
ex:600 onassis:hasVariable ex:17.
ex:17 rdf:type onassis:Variable.
ex:17 onassis:hasOrderNumber 4.

#paragraph locus 2 in section ex:9002 .

ex:601 rdf:type onassis:Paragraph.
ex:601 onassis:isRelatedTo ex:9002.
ex:601 onassis:hasOrderNumber 2.

```

#paragraph expression locus 1 in paragraph ex:601. It reads: 2 On the deadline of each milestone the .

```
ex:601 onassis:hasParagraphExpression ex:40.
ex:40 rdf:type onassis:ParagraphExpression.
ex:40 onassis:NaturalLanguageExpression 2 On the deadline of each milestone the ""^rdfs:
Literal.
ex:40 onassis:hasOrderNumber 1.
```

#variable locus 2 in paragraph ex:601. [NAME2]  
Ex601 onassis:hasVariable ex:09.  
ex:09 onassis:hasOrderNumber 2.

#paragraph expression locus 3 in paragraph ex:601. It reads: 2 On the deadline of each milestone the .

```
ex:601 onassis:hasParagraphExpression ex:41.
ex:41 rdf:type onassis:ParagraphExpression.
ex:41 onassis:NaturalLanguageExpression will examine the quality of ""^rdfs:Literal.
ex:41 onassis:hasOrderNumber 3.
```

#variable locus 4 in paragraph ex:601. [NAME1]  
Ex601 onassis:hasVariable ex:08.  
ex:08 onassis:hasOrderNumber 4.

#paragraph expression locus 5 in paragraph ex:601. It reads: services and only if the quality is sufficient comply with payment obligation. .

```
ex:601 onassis:hasParagraphExpression ex:42.
ex:42 rdf:type onassis:ParagraphExpression.
ex:42 onassis:NaturalLanguageExpression services and only if the quality is sufficient comply
with payment obligation. ""^rdfs:Literal.
ex:42 onassis:hasOrderNumber 5.
```

#paragraph locus 3 in section ex:9002 .  
ex:602 rdf:type onassis:Paragraph.  
ex:602 onassis:isRelatedTo ex:9002.  
ex:602 onassis:hasOrderNumber 3.

#paragraph expression locus 1 in paragraph ex:602. It reads: 3 The .

```
ex:602 onassis:hasParagraphExpression ex:30.
ex:30 rdf:type onassis:ParagraphExpression.
ex:30 onassis:NaturalLanguageExpression the ""^rdfs:Literal.
ex:30 onassis:hasOrderNumber 1.
```

#variable locus 2 in paragraph ex:602. [NAME1]  
Ex602 onassis:hasVariable ex:08.  
ex:08 onassis:hasOrderNumber 2.

#paragraph expression locus 3 in paragraph ex:602. It reads: has no obligation to deliver the services if any payment is not completed. .

```
ex:602 onassis:hasParagraphExpression ex:31.
ex:31 rdf:type onassis:ParagraphExpression.
ex:31 onassis:NaturalLanguageExpression has no obligation to deliver the services if any
payment is not completed. ""^rdfs:Literal.
ex:31 onassis:hasOrderNumber 1.
```

#paragraph locus 4 in section ex:9002 .  
ex:603 rdf:type onassis:Paragraph.  
ex:603 onassis:isRelatedTo ex:9002.  
ex:603 onassis:hasOrderNumber 1.

#paragraph expression locus 1 in paragraph ex:603. It reads: 4 Refund is not possible.

```
ex:603 onassis:hasParagraphExpression ex:32.
ex:32 rdf:type onassis:ParagraphExpression.
ex:32 onassis:NaturalLanguageExpression 4 Refund is not possible.""^rdfs:Literal.
ex:32 onassis:hasOrderNumber 1.
```

#section locus 4 and section topic D Signature .

ex:9003 rdf:type onassis:section.

```
ex:9003 onassis:hasOrderNumber 1.  
ex:9003 onassis:hasTopic ex:777.  
ex:777 rdf:type onassis:SectionTopic.  
ex:777 onassis:NaturalLanguageExpression "D Signature"^^rdfs:Literal .
```

## Appendix 4H: LLM Experiment

The results of ChatGPT's command 1 (i.e., write a payment clause for a freelancer contract) are as follows:

- The Client agrees to pay the Freelancer the sum of [insert amount] for the completion of the services outlined in this agreement.
- Payment will be made to the Freelancer upon completion of the services outlined in this agreement, and upon the Freelancers submission of an invoice for payment.
- The Freelancer agrees to submit an invoice for payment upon completion of the services outlined in this agreement.
- Payment will be made to the Freelancer within [insert number] days of receipt of the invoice.
- All payments will be made in [insert currency] and will be exclusive of any applicable taxes.
- If the Client fails to make payment as outlined in this agreement, the Freelancer reserves the right to terminate this agreement and retain any payments already received as compensation for work completed.

The results of ChatGPT's command 2 (i.e., write a payment clause for a freelancer contract that includes PCD1, PCD2, PCD3, etc.) are as follows:

- The Client agrees to pay the Freelancer the sum of [insert amount] for the completion of the services outlined in this agreement.
- The payment will be made in [insert currency] and will be exclusive of any applicable taxes.
- The payment will be divided into [insert number] milestones, each corresponding to a specific deliverable as outlined in the project timeline.
- The Freelancer agrees to deliver each milestone on or before the deadline as outlined in the project timeline.
- The Client reserves the right to inspect and approve each milestone for quality control before making payment for that milestone.
- The Freelancer agrees to provide the Client with a screenshot of the budget for the project as it stands after the completion of each milestone, for review and approval.
- Payment for each milestone will be made within [insert number] days of the Clients approval of the milestone, and upon receipt of the Freelancers invoice for payment.
- If the Freelancer fails to deliver a milestone on or before the deadline or if the Client finds the quality of the milestone to be unsatisfactory, the Freelancer will be given [insert number] days to rectify the issue before payment will be made.
- If the issue is not rectified within the allotted time, the Client reserves the right to terminate the agreement and retain any payments already made as compensation for work completed up to that point.

## Appendix 4I: Logocratic Method Experiment

First, we conducted a deductive representation of timeline as Proactive Data.

E1 = No Payment is a Hazardous Event  
 E2 = Lack of Deadline is a Cause of No Payment  
 E3 = Timeline is a Proactive Control of Lack of Deadline  
 H = Timeline is a Proactive Control of No Payment

Second, we conducted an inductive representation of timeline as Proactive Data.

E1 = No Payment<sub>1</sub> is a Hazardous Event<sub>1</sub> AND Lack of Deadline<sub>1</sub> is a Cause<sub>1</sub> of No Payment<sub>1</sub>  
 E2 = No Payment<sub>2</sub> is a Hazardous Event<sub>2</sub> AND Lack of Deadline<sub>2</sub> is a Cause<sub>2</sub> of No Payment<sub>2</sub>  
 ...  
 E1000 = No Payment<sub>1000</sub> is a Hazardous Event<sub>1000</sub> AND Lack of Deadline<sub>1000</sub> is a Cause<sub>1</sub> of No Payment<sub>1000</sub>  
 H1/E1001 = Lack of Deadline is a Cause of No Payment  
 E1002 = Timeline is a Proactive Control for Lack of Deadline  
 H2 = Timeline is a Proactive Control for No Payment

Third, we conducted an abductive representation of timeline as Proactive Data.

E1 = Timeline is a Proactive Control for the Lack of Deadline as Cause of the No Payment Hazardous Event (Q)  
 E2 = If Timeline is applied as a proactive control the likelihood of the No Payment Hazardous Event reduces (F1), therefore is true.  
 E3 = When Timeline is applied as a proactive control the likelihood of the No Payment Hazardous Event reduces (Fn), therefore is true.  
 Therefore  
 H = When Timeline is applied as a proactive control the likelihood of the No Payment Hazardous Event reduces (Fn)

## Appendix 5: LegalTech & Applications

The Appendix addresses 5 subappendices, which are as follows.

- 5A: LegalTech Categories
- 5B: Low Risk Case Study
- 5C: Mid Risk Case Study
- 5D: High Risk Case Study
- 5E: Legal & Ethical Gaps of AI-Act

**Appendix 5A: LegalTech Categories**



Category	Subcategory	Description	Customers/Buyers	Top Private Company
FinTech		Innovative technology for financial services, such as blockchain, digital payments, and mobile banking**	Banks, consumers, businesses	Stripe
WealthTech		Focusses on wealth management and investment, including robo-advisors and online trading**	Investors, financial advisors, banks	Betterment
RiskTech	Security	Protects digital/physical assets and systems from unauthorised access, theft, or damage**	All industries, governments	CrowdStrike
	Insurance	Streamlines insurance processes and offerings through data analytics, Machine Learning (ML), and AI**	Insurance companies, brokers	Lemonade
	GRC	Manages regulatory, compliance, governance, and risk strategies with automated processes and technologies, contract management, and automation**	All industries, governments	MetricStream
LegalTech		Technology for legal services and processes, such as contract drafting and AI-driven research**	Law firms, legal departments	Clio
SmartTech	Image Recognition	Analyses visual data using computer vision, ML, and AI for various applications**	All industries, governments	DeepMind
	Audio Recognition	Processes and analyses audio data for voice assistants, transcription, and sentiment analysis**	All industries, governments	Nuance Communications
	Text Analytics	Uses NLP, ML, and AI to analyse unstructured text for insights and patterns**	All industries, governments	OpenAI
	Data Analytics	Analyses large data sets for patterns, trends, and insights to make data-driven decisions**	All industries, governments	Palantir Technologies
	Automation	Employs technology for tasks with minimal human intervention, such as in robotics and process automation**	All industries, governments	UiPath
CivicTech		Enhances civic engagement, government services, and transparency with technology solutions**	Governments, NGOs, citizens	SeeClickFix

Appendix 5B: Low Risk Case Study

	Most Serviceable Explanation	Less Serviceable Explanation 1	Less Serviceable Explanation 2
<b>Risk Source</b>	Personal history and behaviour pose minimal risk.	Age and previous underage drinking are not relevant risks.	Car ownership history is more important than age.
<b>Proactive Control</b>	Offer standard coverage with no special conditions.	Special conditions are not necessary due to low overall risk.	Additional driver safety courses might help.
<b>Hazardous Event</b>	Minor accidents or occasional speeding violations.	Extreme accidents or driving under influence are highly unlikely.	Catastrophic accidents are too rare to consider.

As seen in Table 2, the generated data propose as proactive control a standard coverage with no special conditions based on the personal history of a driver’s behaviour, considering the risk of minor accidents and violations. The disqualified explanations concern not considering the prior history and behaviour or the age as risky. Proactive control, in this case, seems rational and reminisces that of a human expert.

Appendix 5C: Mid Risk Case Study

	Most Serviceable Explanation	Less Serviceable Explanation 1	Less Serviceable Explanation 2
<b>Risk Source</b>	Falling objects or accidents pose moderate risk.	Residents' views are not a relevant safety concern.	Tall buildings are inherently safe, and nets are unnecessary.
<b>Proactive Control</b>	Install safety nets to prevent injuries.	Prioritise aesthetics; nets are visually unappealing.	Invest in better warning signs instead of nets.
<b>Hazardous Event</b>	Accidental falling objects harming people.	Residents' view obstruction is not a major issue.	Falls are rare, and nets will ruin the building's appearance.

As for Table 3, the generated data propose proactive control of installing safety nets despite blocking the potential view of surrounding residents. It prioritises the risk of human falls higher than the risk of potential lawsuits by surrounding residents. It is an excellent example of generated data because this proactive control is rarely the choice of a human expert. As seen in the less serviceable explanations, the risk of a lawsuit from residents is not considered a significant issue, and the generated data do not recognise it as an actual risk.

Appendix 5D: High Risk Case Study

	Most Serviceable Explanation	Less Serviceable Explanation 1	Less Serviceable Explanation 2
<b>Risk Source</b>	Riot poses an immediate threat to public safety.	Concerns about predictive policing' judgement are unwarranted.	The riot situation is not as dangerous as it seems; no system needed.
<b>Proactive Control</b>	Deploy predictive policing system for rapid response.	Human intervention is sufficient for handling the situation.	Wait for more information about the predictive policing readiness.
<b>Hazardous Event</b>	Potentially wrongful prosecution of rioter.	Rioters' intentions are not as harmful as they appear.	Predictive policing judgement may not be harmful, no risk.

As for Table 4, the proposed proactive control is the deployment of predictive policing for rapid prediction, even when there is a risk of potential wrongful judgement. As given above, one of the less serviceable explanations is waiting for more information about the predictive policing system's readiness, considering that the system can arrive at a wrong judgement. It is a convincing example of generated data because it shows that the official eventually should take the decision-making in conjunction with the advice received from the technological system. If the official faces alternative explanations, yet before deciding, the official should interpret the proposal suggested by the PLT.

Appendix 5E: Legal & Ethical Gaps of AI-Act

	Transparency Gap	Accountability Gap	Liability Gap
Description	Lack of visibility over explanations supporting decisions	Inability to hold specific parties accountable	Inability to assign liability to responsible parties in fair manner
Root Causes	Explanations are focussed on inductive models	Lack of sufficient explanations supporting decisions	AI-Act applies strict-liability for high-risk AI
	Privacy, security and strategic objections	Lack of explanations creates lack of visibility	Lack of rules for transparent explanations
	Lack of explanation culture across AI chain	Human inputs to AI decisions are unclear	Narrow focus of explainability for inductive models
When Incurred	All phases	All phases	All phases
Responsible Parties	All parties	All parties	All parties
Risk	Inability to explain AI decisions	Inability to assign responsibility	Inability to apply shared liability

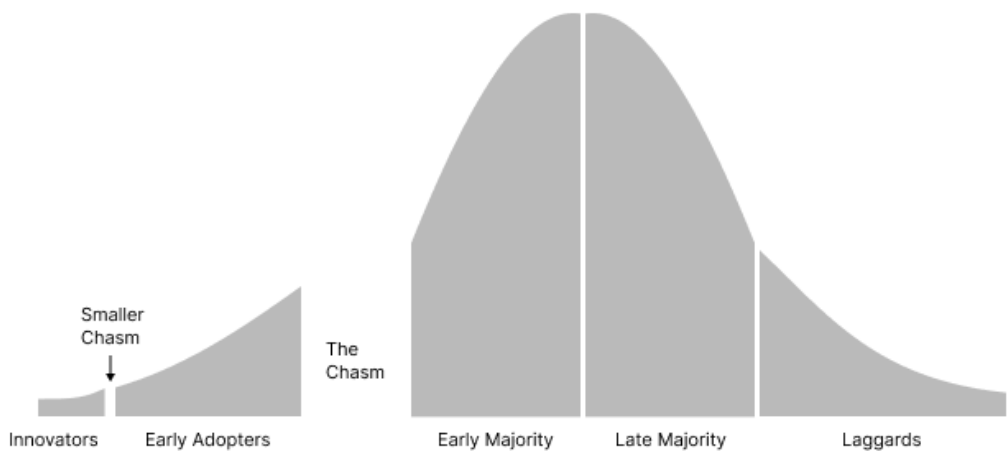
The table identifies three vital legal and ethical AI categories: transparency, accountability and liability. For each category, it identifies the central gap based on the application of the AI-Act to the case studies. After describing its gap, we explain its root causes, show when they occur and who are the responsible parties, as well as the relevant risk.

**Appendix 6: Technology Adoption**

The Appendix addresses 2 subappendices, which are as follows.

- 6A: Moore's Crossing the Chasm
- 6B: Rate of Contract Technology Adoption

Appendix 6A: Moore’s Crossing the Chasm



Appendix 6B: Rate of Contract Technology Adoption

	Physical	Digital	Smart	Intelligent
Contract Negotiation	High	Mid	Low	Low
Contract Risk Management	High	Mid	Low	Low
Contract Drafting	High	Mid	Mid	Low
Contract Extraction	Low	High	Mid	Low
Contract Management	High	High	Mid	Low