	Request for Information (RFI)	Template Identifier	240-72663051	Rev	1	
		Document Identifier	N/A	Rev	N/A	
		Effective Date	01 August 2016			
		Review Date	September 2022			
		RFI	MWP1444CX			

PART A REQUEST FOR REQUEST FOR INFORMATION(RFI)			
Description of the works/goods/services	Distributed Ledger and Artificial Intelligence technology Implementation		
Deadline for submission	10 August 2022	At (South African Standard Time)	10:00am
Tender Office address	Eskom Megawatt Park Tender Office P.O. Box 1091 Johannesburg 2000		
Tenders are to be delivered to the following address on the stipulated closing date and time:	Eskom Megawatt Park Tender Office Northside No1 Maxwell Drive Sunninghill.		
Description of the services	Distributed Ledger and Artificial Intelligence technology implementation		


Eskom Holdings SOC Ltd (“Eskom”) invites you to participate to respond to a RFI for Distributed Ledger and Artificial Intelligence technology implementation

- This RFI is a stand-alone information-gathering and market-testing exercise, intended only to inform and assist Eskom’s further deliberation and development of a strategy on areas that

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would benefit from the implementation of a distributed ledger and artificial intelligence technology solution

- Eskom aims to obtain indicative prices, timelines as well as information regarding the different solutions offered by the market. Respondents are required to provide documentation detailing their different offerings especially around functionality, indicative pricing and requirements in order to assist Eskom.

Eskom has delegated the responsibility for this **RFI** to the signatory of this document, whose details can be found below.

We look forward to receipt of your response.


Yours faithfully

Name	Designation	Signature	Date
Nothukela Sereo	Procurement Manager		5 July 2022
Telephone Number		or e-mail address	

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PART B RESPONSE SHEET IN TERMS OF A REQUEST FOR INFORMATION To be completed by the supplier			
To	Eskom Holdings SOC Ltd	Date	
Attention	Motlagae Mokoka		
Tel no	011 800 2165	Fax no and /or e-mail address	mokokam@eskom.co.za
From		Address	
Address			
Sender			
Description of the works/goods/services	Distributed Ledger and Artificial Intelligence technology implementation		

1. INTRODUCTION

Eskom Commercial is requesting suppliers to respond to request for information on Distributed Ledger and Artificial Intelligence Technology implementation

2. BACKGROUND


Eskom Group IT aims to provide secure, robust, scalable and high performing digital environment to support Eskom's digital transformation strategy and optimise the use of technology in the business. As a first phase, Eskom is conducting research on the utilization of Distributed Ledgers and Artificial Intelligence (AI) technology. As part of the research to determine feasibility of the implementation of Distributed Ledger Technology (DLT) and AI in Eskom, the following areas have been earmarked to be assessed first namely:

- Supplier Relationship Management
- Contract Management – Smart Contracts
- Financial Management

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- Fraud Management

The requirements below are qualitative statements of business needs that are to be fulfilled by the architecture design. The scope in this phase is to determine distributed ledger and artificial intelligence technology options available in the market as well as associated estimated timelines and indicative costs for acquiring and implementing the system. This RFI will also assist Eskom in identifying areas of the business that would benefit from the implementation of a blockchain solution with particular focus on the procurement and supply chain management, finance and fraud management environment. This process would include providing a scope and context for the solution as well as possible roadmap for its delivery

2.1 OBJECTIVE

Eskom intends to use the information provided as a means of providing the following:

2.1.1 Develop the project proposal and roadmap for implementation

2.2 RFI REQUIREMENT

From an Eskom perspective, the below value chain item that can benefit from a Distributed Ledger and Artificial Intelligence technology implementation has been identified.

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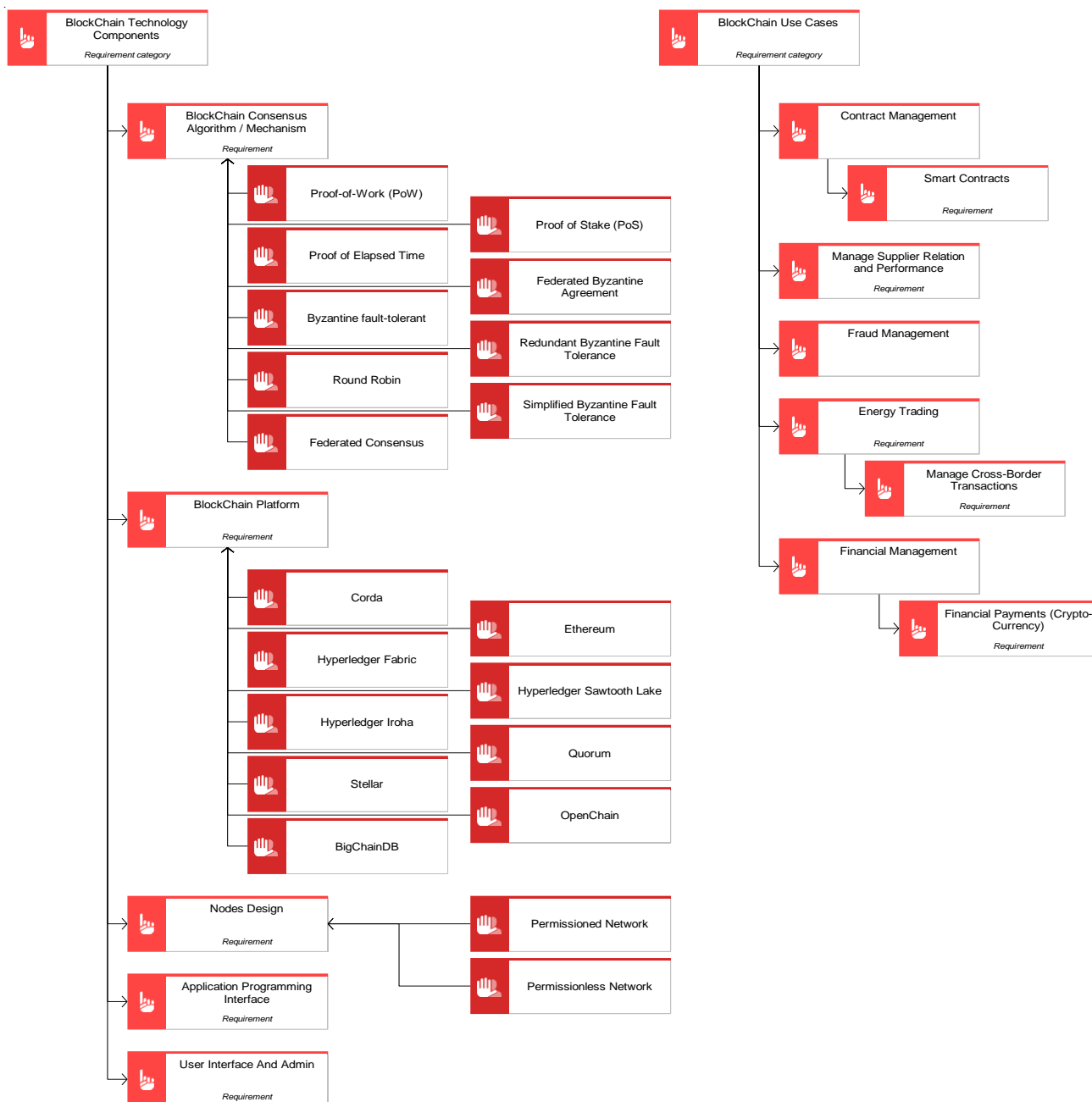
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Figure 1: Statement of Work



**** Pre-paid vending forms part of the use cases**

*****Accounts Payable is included within Financial Management**

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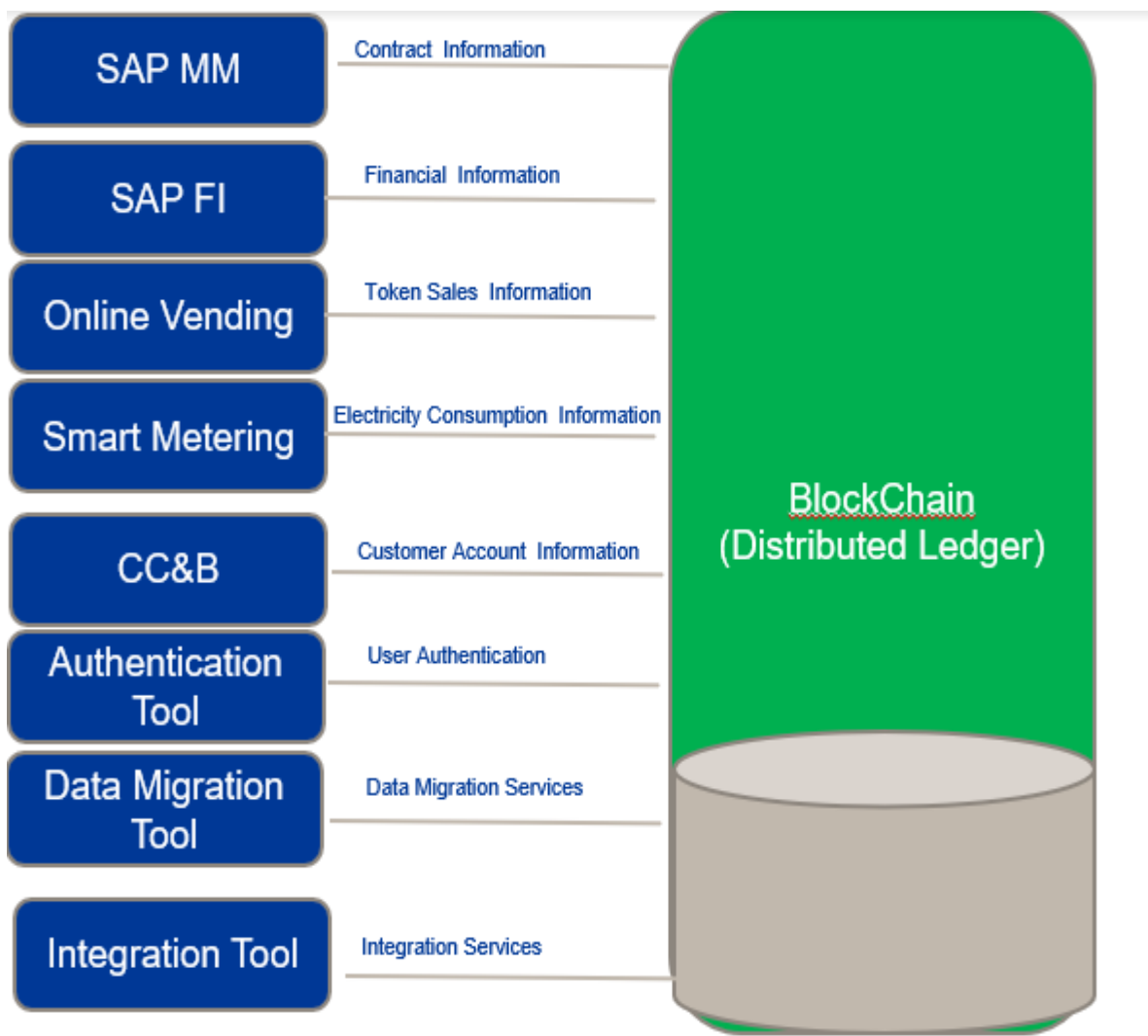
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Figure 2 Data flow diagram / Context diagram

This diagram is used to assist in understanding the scope of the business requirement. By looking at the diagram the scope of the business requirements are to be expanded upon.




**** Note Not limited to the above systems.**

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NOTE: SUPPLIERS SHOULD RESPOND TO PART C BELOW.


Please find below our response to Eskom's questions:

PART C TECHNICAL QUESTIONNAIRES																														
No.	Questionnaire for Individuals	Please indicate your response in this column																												
The service providers that respond to this RFI will be evaluated on their ability to inform the project proposal and roadmap for the Distributed Ledger and Artificial Intelligence implementation on the criteria listed in the table below:																														
1.	Your contact's name and contact details																													
2.	Company registration number																													
		<table border="1"> <thead> <tr> <th>Yes/No</th> <th>Comments</th> </tr> </thead> <tbody> <tr> <td colspan="2">The RFI responses should detail the following:</td> </tr> <tr> <td colspan="2">1. Distributed Ledger Technology (DLT) and Artificial Intelligence (AI) technology Use Cases</td> </tr> <tr> <td colspan="2">a. Use case examples in the Supply Chain, Procurement, Finance, Fraud Management, or</td> </tr> <tr> <td colspan="2">b. Use case applicable to the utility industry, or</td> </tr> <tr> <td colspan="2">c. Use case examples in other areas applicable to Eskom (e.g., Dx Meters etc)</td> </tr> <tr> <td colspan="2">2. Distributed Ledger and Artificial Intelligence technology platform</td> </tr> <tr> <td colspan="2">a. Overview of the technology platform(s)</td> </tr> <tr> <td colspan="2">b. Description of capabilities and functionalities of the technology platform(s)</td> </tr> <tr> <td colspan="2">c. Benefits of the platform(s)</td> </tr> <tr> <td colspan="2">d. On premise or off premise solution. Eskom has a cloud first policy when suitable</td> </tr> <tr> <td colspan="2">3. Design</td> </tr> <tr> <td colspan="2">a. Product architecture of the proposed technology platform</td> </tr> <tr> <td colspan="2">4. Implementation Requirements</td> </tr> </tbody> </table>	Yes/No	Comments	The RFI responses should detail the following:		1. Distributed Ledger Technology (DLT) and Artificial Intelligence (AI) technology Use Cases		a. Use case examples in the Supply Chain, Procurement, Finance, Fraud Management, or		b. Use case applicable to the utility industry, or		c. Use case examples in other areas applicable to Eskom (e.g., Dx Meters etc)		2. Distributed Ledger and Artificial Intelligence technology platform		a. Overview of the technology platform(s)		b. Description of capabilities and functionalities of the technology platform(s)		c. Benefits of the platform(s)		d. On premise or off premise solution. Eskom has a cloud first policy when suitable		3. Design		a. Product architecture of the proposed technology platform		4. Implementation Requirements	
Yes/No	Comments																													
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a. What pre-requisites need to be in place for the implementation of this technology platform?		
b. Methods of distributed ledger used (proof of stake / work etc..) recommended distributed ledger technology with reasons for it		
c. The distributed ledger consensus mechanism/algorithm used and associated node design		
d. The logical flow of the methods is described. It shows where integration points may be required		
e. Recommendations on integration requirements to the platform		
f. Indicate ability to pull historical data		
g. Any additional infrastructure requirements		
5. Training		
a. Proposed training mechanisms for the technology platform(s)		
b. Skills transfer for future maintenance and support on the technology platform(s)		
6. Service Level Agreement		
a. Nature of the Service Level Agreement for the proposed technology platform		
7. Project Management		
a. Estimated timelines for implementation of the platform. Assumptions included		
b. Indicative timelines for implementation per use case. Assumptions included		
c. Recommended methodology of implementation		
8. Indicative Pricing		
a. License or Subscription costs		
b. Support and Maintenance costs		
c. Implementation (analyse, design, build, test, deploy & project management) of the platform		
d. Implementation (analyse, design, build, test, deploy & project management) of a use case(s)		
e. Training & Change Management		
f. Integration to commonly available systems e.g., SAP, SQL and Oracle		

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g. Solution stabilisation		
h. Other		
9. Showcase Technology		
a. Is willing to demonstrate the technology platform		
10. Other		
a. Includes any other relevant information. This can include suggestions of a way forward		

Suppliers who have indicated a willingness to demonstrate their technology will be invited to do presentations.

NB: for Further questions Annexure A will be issued Demonstration requirement questionnaires

Name	Designation	Signature	Date
Telephone number		Fax and/or e-mail address	

3. SUBMISSION GUIDELINES

To ensure the receipt of communication with regard to this request for information process, kindly complete Appendix A – Acknowledgement Form and return it by email as indicated on the form within 3 days of receiving this Invitation.

4. METHOD OF RESPONDING TO THE RFI

All submissions responses must be clearly marked as follows:

- Offer Confidential Enquiry Reference no: **MWP1444CX**
- Closing date: **10 August 2022**
- Closing time: 10 am South African Standard Time.

5. HANDLING OF CORRESPONDENCE AND DOCUMENTS


The submission may not be addressed to any Eskom Holdings employee, nor may any Eskom employee deposit a tender in the tender box on behalf of a respondent, except one lodged by courier.

Eskom Holdings does not take responsibility for tenders delivered to any other site than the Tender Office as specified in the above.

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You are urged to ensure that all issues in your submission are sufficiently clear and all documentation completed and incorporated in your submission at the time of submission. Non-adherence to this will prejudice and may disqualify your offer from further consideration.

Your RFI submission should have a thorough index and reference all documentation submitted. RFI documentation should be neatly filed / bound.

6. QUERIES AND QUESTIONS

No questions, during the RFI period will be answered telephonically. Questions must be submitted in writing, either via e-mail to:

Attention: Motlagae Mokoka

E-mail: Mokoka@eskom.co.za

The closing time for clarification of questions and queries is will on the **29 July 2022**.

This submission will not be considered unless it is -

- Received on or before the time and date as indicated
- Sealed and signed by person(s) duly authorised to act on behalf of your company
- Received in full

Eskom Holdings SOC Ltd (“Eskom”) reserves the right to cancel this enquiry process at any time prior to entering into any contract that may result from this process and will not accept or incur any liability for such cancellation.

Eskom Holdings SOC Ltd (“Eskom”) is not bound to accept any of the submissions, nor give reasons for any decisions in this respect.

The Information provided may be used when going out on enquiry for a request for proposal or a quotation.

7. IMPORTANT NOTES


7.1 Please note that this enquiry is not a Request for Quotation/Proposal but a Request for information only and therefore non-committal and does not constitute a guarantee of business, or an agreement to negotiate a binding agreement.

7.2 Due to the specific need that this RFI process has to fulfil, Eskom wishes to clarify that this invitation is not intended to impede, amend or replace any current or future procurement process that Eskom has engaged in or will engage in.

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7.3 This RFI is a stand-alone information-gathering and market-testing exercise, intended only to inform and assist Eskom's further decisions. No respondent, through submission of information will gain any right to participate in any future process and participates herein on the basis that it is providing information voluntarily to strengthen a potentially beneficial process for all stakeholders. In addition, no participant shall be prevented or excluded from participation in the bidding process due to submission of information in response to this RFI.

7.4 Any information provided pursuant to this RFI process and any subsequent processes and/or engagement is not confidential, but Eskom will use the information only in the course of its process.

7.5 Through making a submission, a respondent accepts the terms and conditions which govern this process.

7.6 All participants responding to this RFI process need to ensure that they have received all information and remain solely responsible for satisfying themselves as to the information required in responding hereto and are fully responsible for all costs incurred in relation hereto and under no circumstances will any resultant cost be borne by Eskom.

7.6 Eskom reserves the right not to proceed with any further engagements on the requirements presented.

7.7 Please complete the attached Acknowledgement Form and return it by email.

8. PROJECT TIMELINES

The timetable for the RFI process is set out as follows:

Item	Action	Due Date
1	RFI issue date	5 July 2022
2	E-mail acknowledgement form	23 July 2022
3	Closing date for clarification and enquiries, this should be done via email to mokokam@eskom.co.za	29 July 2022
4	RFI closing date and time	10 August 2022

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