

7/31/23

The following (Q&A) will serve as Amendment #1 to NYSIF's Request for Information (RFI) for Analytics, Business Intelligence and Data Science Solutions, bid number 2023-58-IT. Material in this Amendment supersedes any contradictory material in the RFI.

Please note that the due date for the submission of bids has been extended.

All bids are due 8/14/23, by 2:00 p.m.(eastern).

Sincerely,

Vincent Ginardi

Supervising Contract Management Specialist

Question	Question	Page	Section	NYSIF Response
# 1	If this RFI greenlights a solicitation, what is the estimated			Unknown at this time
-	timeframe for procurement?			orialismi de diis diffe
2	What is the anticipated contract value?			Unknown at this time
3	Is there a current vendor providing these services? If so, how may I obtain copies of any incumbent contract documents?			We cannot share this information at this time
4	Pages 4 & 5 of the RFI PDF lists the requested information. Is it required that a response addresses all points on those pages? If so, will our response be considered if we do not have experience in all of the areas?	4 & 5		All responses will be evaluated according to the RFI requirements, NYSIF is open for either a full-suite or best-of-breed solutions.
5	Is there a partcular contract that would be utilized for a purchase or would the purchase be open market?	1		Unknown at this time
6	We are New Jersey HQ small business (approved by Small Business Council), so could we respond?			This is a Request for Information - it is open to all parties.
7	Since we are women and minority owned firm, thus I am the only employee. Could I bring a larger firm with Onsite, Onshore and Offshore capabilities on Data Science, ETL, Dashboard and Data Governance? If yes, could they be my Sub?			There is not a prohibition on companies headquartered or based outside of the US, however a foreign country must: (1) Be able to provide evidence of responsibility and legal authority to do business with NY State and, (2) Not be a debarred business entity by NY State, (3) Vendors must consent to service of process, legal jurisdiction and choice of applicable laws in the State of New York, USA, and finally, (4) Security requirements may restrict storage and use of NYSIF data (in any form) to the United States.
8	Do you have an approved budget for this opportunity?			Not relevant to RFI
9	Do you have an existing vendor supporting your EDW / BI and Dashboard – Analytics requirements? If yes, why are you looking to replace them?			We cannot share this information at this time
10	It appears as though you are looking for an off the shelf solution and not something that is a custom build - is that correct?	5	6	NYSIF is open for both options
11	How many source systems/APPs are feeding data to ODS?			we cannot share this information at this time
12	Are there any external sources providing data?			We cannot share this information at this time
13	Are there any API or Micro Services involved in providing data?			We cannot share this information at this time
14	Is biodata/data lake a consideration for ODS replacement?			We cannot share this information at this time
15	Is there any existing ETL tool? (how ODS is loaded now?) Or any tool of preference based on skill availability?			we cannot share this information at this time

Question #	Question	Page	Section	NYSIF Response
16	Can copies or links be provided to the most recent New York State accessibility and security requirements to help us provide appropriate options? This request is in reference to 'Product must adhere with New York State accessibility and			NYS accessibility is available to the public on the internet
17	security requirements' What database and unstructured data storage technologies are currently being used for the source data systems that need to be analyzed?			we cannot share this information at this time
18	Are these source databases on-premise or cloud hosted?			We cannot share this information at this time
19	What is the total size of the source data that needs to be analyzed?			Data volume and annual growth can be found on page 4 of the RFI
20	Could NYSIF provide the total number of source databases and number of tables within each source database?			Data size and annual growth are in RFI page 4
21	What size growth of the source data is expected over the next 12 months?			Data volume and annual growth can be found on page 4 of the RFI
22	Could NYSIF provide a list of types of roles that would need to leverage the analytics solution?			We cannot share this information at this time
23	How many total internal end-users would need to access the analytics solution?			We cannot share this information at this time
24	How many total external end-users would need to access the analytics solution?			we cannot share this information at this time
25	Is NYSIF's preference for a real-time data solution or if the data is delayed by a day or near-real time, such as a 1hr delay, would this meet NYSIF's needs?			solution should have the capability to support all data refresh frequency (daily, weekly, and monthly, multiple time per day,)
26	Does NYSIF have an existing middleware tool that should be leveraged for any data transformations or movement of source data into the analytics solution? If so, which tool should be leveraged?			we cannot share this information at this time
27	Could NYSIF please grant an extension on the due date?			Yes, extend to (8/14/2023)
28	Is there a specific page limit for responses to the RFI?			No Page limit
29	Are there any format margins to consider when writing responses to the RFI?			No requirement
30	When it comes to writing responses to the RFI; is there a specific font size type required by NYSIF?			No requirement
31	After the solution has been decided by NYSIF, is there any expected date to release the RFP?			Unknown at this time
32	Do we have to provide any pricing Information? If yes, does NYSIF have a preferred pricing format? If not, can we use an Excel spreadsheet detailing milestones and the cost of each?			Specific pricing is not required at this time. General pricing information will assist NYSIF in developing its specifications.

Question	Question	Page	Section	NYSIF Response
#	To it was a second to include weferences in the was a second of the			No
33	Is it necessary to include references in the response? If yes, how many?			No
34	Is there an established format that must be adhered to when			No requirement
34	preparing the proposal response (eg: cover letter, company			INO requirement
	background, resume, approach)?			
35	Does NYSIF expect the vendors to provide answers for all the	4	6	Yes
	requested information mentioned in section 6?	•		
36	Is NYSIF looking for a customized solution?	4	6	NYSIF is looking for solutions that meets listed requirements regardless if it is of-
				the-shelf, services, customized, others
37	What kind of projects is NYSIF looking to release through a			Unknown at this time
	potential RFP from this RFI?			
38	Is NYSIF looking for vendors that have experience in the			None for the RIF process
	Insurance Industry?			
39	By when will NYSIF release an RFP in response to this RFI?			Unknown at this time
40			6.2(1)	
40	Can you please elaborate the scope of Data cleaning, handling	4	6.2(d)	we cannot share this information at this time
	missing values and data transformation if applicable			
41	What toolset are being used for existing data ware house?	4	6.1(a)	we cannot share this information at this time
'-	What toolset are being asea for existing data ware house:	'	0.1(a)	we cannot share this information at this time
42	Provide a catalogue of the database types that currently exist	4	6.1(a)	we cannot share this information at this time
	and specify the type of data(structured/Unstructured) they			
	contain?			
43	Please provide split between internal and external data	4	6.2(e)	We cannot share this information at this time
	sources?			
44	Share the guideline document for security and accessibility.	4	6.2(b)	NYS accessibility is available online
45	What measures are currently in place for managing data, and	4	6.1(a)	we cannot share this information at this time
	what is the configuration of the server and operating system			
46	being used? where does existing semantic layer resides?		6 2(n)	We cannot share this information at this time
46	Please specify the data masking and encryption requirement,	<u>5</u> 5		we cannot share this information at this time we cannot share this information at this time
7/	Do we need encryption at rest as well as transit?	J	0.2(u)	ואפ כמוווטג אומופ נוווא ווווטוווומנוטוו מג נוווא נווופ
	We need encryption at rest as well as transit:			
48	Do we have metadata tracking tools in place, please mention?	5	6.2(q)	solution requirements are in page 4 & 5 of the RFI
	If no do we need?	-	(-1)	

Question #	Question	Page	Section	NYSIF Response
# 49	Map data source and Target	4	6.2(d)	we cannot share this information at this time
73	Indicates the technical format of the source and target	7	0.2(u)	we cannot share this information at this time
	Specifies transformations required for all intermediate staging			
	points between source and target			
	Describes how each attribute in a final or intermediate target			
	data store will be populated			
	Describes whether data values need to be transformed.			
	Describes what calculations are required			
50	What all tools use for existing monitoring/alert if any.	5	6.2(v)	Not relevant to RFI
51	Is there any issue with existing monitoring/alert, please brief.	5	6.2(v)	Not relevant to RFI
52	What is the defined matrices for monitoring/alerts?	5	6.2(v)	Not relevant to RFI
53	What is the size of data and frequency of each data source ?	4	6.2(d)	Data volume and annual growth can be found on page 4 of the RFI
54	Do we use same ETL/ELT process for existing data sources?	4	6.2(d)	Not relevant to RFI
	Please provide toolset as per data sources and their daily size.			
	· · · · · · · · · · · · · · · · · · ·			
55	Please share the matrix to be considered as benchmark for	4	6.2(a)	We cannot share this information at this time
	performance and scalability?			
56	What is agreeable latency of data for near relative reporting?	4	6.2(a)	we cannot share this information at this time
57	What is Volumes of data analysed	4	6.2(a)	please see RFI page 4
58	What is existing Speed of transmission	4		We cannot share this information at this time
59	What is Latency between data update and availability	4		We cannot share this information at this time
60	is there any defined scope like number of report or Dashboard ?	4	6.2(f)	we cannot share this information at this time
61	"Data Exploration and visualization: Support for multiple data	4	6.2(f)	Not relevant to RFI
	analysis/visualization tools (TIBCO Spotfire, MS Excel, MS			
	Power BI, Tableau)" Which of the visualisation tool is			
	preferred?			
62	What all devices are considered for reporting?	4	6.2(f)	Not relevant to RFI
63	so we see scheduled reporting what number of report we for see to be scheduled?	4	6.2(f)	Not relevant to RFI
64	API and SDK - What is the exact scope - should we enable the	4	6.2(d)	Not relevant to RFI
	platform and test the SDK and API or do real time integrations			
65	What is existing mechanism of Authentication and	5	6.2(u)	Not relevant to RFI
	authorisation, do we have any issue to address?			
66	Please share existing data security policy if any?	5	6.2(u)	We cannot share this information at this time
67	How users gain and lose access to systems and/or applications	5	6.2(u)	Not relevant to RFI

Question	Question	Page	Section	NYSIF Response
#	Harrison and a section of the sectio	-	(2()	Was assessed allowed their forms and their black
68	How users are assigned to and removed from roles	5		We cannot share this information at this time
69	How privilege levels are monitored	5	+	We cannot share this information at this time
70	How requests for access changes are handled and monitored	5	6.2(u)	We cannot share this information at this time
71	How data is classified according to confidentiality and applicable regulations	5	6.2(u)	we cannot share this information at this time
72	How data breaches are handled once detected	5		We cannot share this information at this time
73	Do we have existing CRUD Matrix, if yes please share?	5		We cannot share this information at this time
74	What are existing Data sharing rules and agreements if any?	5	6.2(u)	we cannot share this information at this time
75	What's the required number of technical users building models with full capabilities by code or no-code? (Years 1, 2 and 3)	5	6.2(t)	we cannot share this information at this time
76	What's the number of non-technical users collaborating with the technical team on building Data Science Models, as well as having capabilities to build visual outputs (dashboards, graphs, reports,etc)? (Years 1, 2 and 3)	5	6.2(t)	we cannot share this information at this time
77	What's the number of users exploring the outputs of the models through the platform? (Years 1, 2 and 3)	5	6.2(u)	we cannot share this information at this time
78	What's the split of user-profiles building Data Science Models: coders, non-coders, citizen data scientists?	5	6.2(u)	we cannot share this information at this time
79	Is Current solution is deployed on the on premises or cloud? In case cloud which cloud.	5	6.2(w)	we cannot share this information at this time
80	In case using cloud for Datawarehouse what all services are being used?	5	6.2(w)	we cannot share this information at this time
81	is there any preference for cloud service?	5	6.2(w)	No preference
82	Please confirm if you're looking to deploy a single instance, or multiple instances. If more than one instance is needed, please confirm if four (4) environments will be enough for the Advanced Analytics & AI platform (i.e. Sandbox, Development, Test, Production). Please specify if more are needed?	5	6.2(w)	we cannot share this information at this time
83	Please share Security implementation matrix?	5		We cannot share this information at this time
84	What is existing security implementation for external source ingestion and what is expected?	5	6.2(b)	we cannot share this information at this time
85	is threat and Vulnerability assessment part of scope?	5	6.2(b)	we cannot share this information at this time
86	What is requirement for Backup, retention, date created, disaster recovery provisions	5		Not relevant to RFI
87	What are audit requirements	5	6.2(v)	we cannot share this information at this time
88	how long audit should be maintained?	5		we cannot share this information at this time

Question #	Question	Page	Section	NYSIF Response
89	What's is the data lifecycle and life of data to be active and archived?	4	6.2(d)	we cannot share this information at this time
90	Please share guidelines for any regulatory requirements.	4		We cannot share this information at this time
91	What are the boundaries for these data	4	6.1	data volume, growth and desired functionality listed on page 4 & 5 of the RFI
	warehouse/operational in terms of size, possible scope of analytical capabilities in each of the partition			
92	How often do models require retraining?	4	6.2(h)	Not relevant to RFI
93	Does this framework apply to multiple personas for	4		please see RFI page 4, item "n"
	development and for their research and analytics?		0.2()	produce see to 1 page 1, team 11
94	Does the governance involves a clear demarcation of data provided to external, internal, development, and production environment?	4	6.2(h)	We cannot share this information at this time
95	Do we need to use different privacy mechanisms for internal vs external data scientist?	4	6.2(h)	We cannot share this information at this time
96	Does the model management need to models that have generic data and customer data differently?	4	6.2(h)	We cannot share this information at this time
97	What are the business and model validation metrics?	4	6.2(h)	We cannot share this information at this time
98	Who defines these business and model validation metrics for acceptance?	4	6.2(h)	We cannot share this information at this time
99	Does the explainable AI (XAI) only for the customer facing and customer decision making models?	4	6.2.(i)	Unknown at this time
100	Who are end consumers of descriptive analysis?	4	6.2(j)	Internal users
101	What are the uses/goals for cohort analysis?	4		We cannot share this information at this time
102	Do we have the competitive pricing and NYSIF pricing over the years at individual customer level?			Question is not clear
103	Can you provide more details about the data environment at NYSIF, including the types of data sources you currently use or plan to incorporate into your analytics solutions?			We cannot share this information at this time
104	How do you manage the data growth and ensure scalability, especially with the estimated annual increase of 2.1 TB?			We cannot share this information at this time
105	What are the primary challenges NYSIF faces in utilizing analytics and business intelligence effectively? Are there any specific pain points that you hope to address with new solutions?			We cannot share this information at this time
106	How does NYSIF currently handle data preparation, data exploration, and visualization? What improvements are you seeking in these areas?			We cannot share this information at this time

Question #	Question	Page	Section	NYSIF Response
107	How important is it for NYSIF to have seamless integration with various data sets and products, including public and private datasets?			Important
108	What are your accessibility requirements, and how do you envision the new solutions adhering to New York State accessibility regulations?			NYS accessibility is available to the public on the internet
109	Could you elaborate on your specific security requirements, such as multifactor authentication, data encryption, and data governance?			We cannot share this information at this time
110	How do you expect the solutions to comply with New York State security and data protection standards?			We cannot share this information at this time
111	Can you provide examples of scenarios where real-time or near-real-time data collection would be critical for NYSIF's operations?			We cannot share this information at this time
112	What level of real-time data analysis or decision-making capabilities do you anticipate in the new solutions?			We cannot share this information at this time
113	How do you envision utilizing Machine Learning in NYSIF's operations? Are there specific use cases or processes you aim to enhance using ML?			We cannot share this information at this time
114	What are your expectations for the model management process, including model creation, training, testing, and deployment?			We cannot share this information at this time
115	Are there specific advanced analytics techniques or predictive modeling use cases you are interested in exploring further?			We cannot share this information at this time
116	How do you plan to leverage these advanced analytics capabilities to enhance decision-making and customer service at NYSIF?			We cannot share this information at this time
117	What factors will drive your decision to opt for an on-premises solution or a cloud-based implementation?			We cannot share this information at this time
118	Do you have any preferences or concerns regarding the hosting environment for the new solutions?			We cannot share this information at this time
119	How do you plan to monitor and control costs associated with the analytics, BI, and data science solutions?			We cannot share this information at this time
120	Are there specific cost-related features or functionalities you are looking for in the proposed solutions?			We cannot share this information at this time
121	How important is collaboration among different user personas (e.g., data scientists, analysts, business users) in your analytics and BI initiatives?			Important

Question #	Question	Page	Section	NYSIF Response
122	What are your expectations regarding user support, training, and user experience for the new solutions?			We cannot share this information at this time
123	How will NYSIF measure the success of the implemented solutions? What key performance indicators (KPIs) or metrics are you planning to track?			We cannot share this information at this time
124	Are there any specific business value tracking requirements you would like the solutions to fulfill?			We cannot share this information at this time
125	We would like to understand NYSIF's stance on the use of offshore resources for the delivery of the requested services. Leveraging offshore resources can often enhance the efficiency and cost-effectiveness of the project, while also providing round-the-clock support due to different time zones. Rest assured, our offshore teams uphold the same stringent quality standards, data security protocols, and service levels as our onshore teams			There is not a prohibition on companies headquartered or based outside of the US, however a foreign country must: (1) Be able to provide evidence of responsibility and legal authority to do business with NY State and, (2) Not be a debarred business entity by NY State, (3) Vendors must consent to service of process, legal jurisdiction and choice of applicable laws in the State of New York, USA, and finally, (4) Security requirements may restrict storage and use of NYSIF data (in any form) to the United States.
126	Kindly provide the list of BI tools and the current version used in the existing environment			We cannot share this information at this time
127	Is there any incumbent vendor currently providing Analytics, Business Intelligence and Data Science Solutions			We cannot share this information at this time
128	Kindly provide details on the current architecture and tech stack of NYSIF			We cannot share this information at this time
129	Kindly provide details on the preference for solution deployment (on-prem or cloud) if cloud, do you have any defined cloud strategy/roadmap?			We cannot share this information at this time
130	Kindly confirm, only the respondent to this RFI will be eligible to participate in the subsequent RFP that may arise from the RFI.	1	2	NYSIF's future procurement path is unknown at this time. However, it will not be limited to the respondents to the RFI.
131	Knidly provide details on the data volumes and classification of data (structured, unstructured and semi structured data)	4	6	data volume, growth and desired functionality listed on page 4 & 5 of the RFI. We cannot share data classification information at this time
132	Kindly provide the headcount of data scientists, citizen data scientists, data engineers, application developers and business analysts available in the NYSIF	5	6	We cannot share this information at this time
133	Access and seamless integration with various data sets/products (public and private datasets). Kindly provide more details on the number of data sets to be considered for Integration	5	6	We cannot share this information at this time
134	At present, what database do NYSIF use for transactional data?			We cannot share this information at this time
135	How many days of data is available in transactional database?			We cannot share this information at this time

Question	Question	Page	Section	NYSIF Response
# 136	How often transactional data is archived?			We cannot share this information at this time
137	How often the ETL process is run to upload data in data			We cannot share this information at this time
157	warehouse?			
138	What are the sources of data that is loaded on to the data warehouse?			We cannot share this information at this time
139	Are all the data structured?			please see RFI page 4 item e
140	At present, what data warehouse do NYSIF use for analytical data?			We cannot share this information at this time
141	How big is the combined BI, Analytics, and Data Solution team?			We cannot share this information at this time
142	What kind of latency do you experience specially with complex guery running against the data warehouse?			We cannot share this information at this time
143	Is there a bit of struggle to get analysts report in a timely manner?			We cannot share this information at this time
144	Do you currently use telemetry data? If no, do you plan to use it going forward?			We cannot share this information at this time
145	Do you do real-time analytics?			We cannot share this information at this time
146	Do you use data science and/or machine learning to gain insights from your data?			We cannot share this information at this time
147	Can you effectively answer important questions about your business from your present data warehouse environment?			We cannot share this information at this time
148	Is there a feeling that the existing data warehouse architecture will struggle to handle growth in near future?			We cannot share this information at this time
149	When was your data warehouse set up?			We cannot share this information at this time
150	Is the vendor who set it up, still maintains it?			We cannot share this information at this time
151	Is there an incumbent vendor responding to this RFI?			We cannot share this information at this time
152	Should you find a suitable solution, would you move to a new platform?			Unknown at this time
153	Do you have any preference for a database or a data warehouse?			Required capabilities are listed in the RFI
154	If you are not in the cloud, will you entertain the idea of moving to cloud? If no, is it a because you have not discussed it?			Unknown at this time
155	A 'yes' or 'no' answer is good enough - do you currently spend over \$5m/year to maintain the system and that includes licensing, the data center with DBAs, SAs, Network Engineers, Security, etc?			We cannot share this information at this time
156	How many servers are in use today in each environment? What servers are those?			We cannot share this information at this time

Question #	Question	Page	Section	NYSIF Response
157	Should you go into RFP, do you already have budget allocation for this project?			No relevant to RFI.
158	Do you currently use any micro services? If not, would you open to it?			We cannot share this information at this time
159	Would NYSIF specify the specific tools/environment it has in place now related to its use of analytics and data science?			We cannot share this information at this time
160	How would NYSIF describe its maturity level related to analytics and data science?			We cannot share this information at this time
161	If NYSIF does issue an RFP related to this RFI, what is the anticipated timeframe for such a solicitation?			Unknown at this time
162	If NYSIF does issue an RFP related to this RFI, what is the anticipated period of performance and budget for this opportunity?			Unknown at this time
163	Can NYSIF provide more detail and clarity around the business objective and/or prioritized use cases and technical requirements so that vendor may better tailor their responses?			We cannot share this information at this time
164	Would NYSIF be interested in procuring advisory support (e.g., analytics and data development) and implementation services along with tools and technology?			Unknown at this time
165	Has NYSIF conducted a current state assessment of its current infrastructure and identified its future needs (i.e., requirements)? If so, who was the vendor that performed this work?			We cannot share this information at this time
166	You seek open-source support for ML/management. Will you consider open-source solutions for the database and visualization components - assuming compatibility with TIBCO/MS/Tableau? (Apache has a strong series of offerings we have leveraged across the functions listed in your RFI, i.e., Hadoop, Spark, Kafka, Superset)			Unknown at this time
167	Would the output of a boundary object, i.e., an NLP/LLM-generated database query, to craft a data analysis/visualization meet your need for ExplainableAI (XAI)?			Unknown at this time
168	What is the existing tech stack for the NYSIF data store environments?			We cannot share this information at this time
169	What are the top ingestion performance challenges for the current solution?			We cannot share this information at this time

Question #	Question	Page	Section	NYSIF Response
170	What recurring support issues are keeping the Ops team up at night?			We cannot share this information at this time
171	Can you please provide more context describing the highest priority business applications for this solution?			We cannot share this information at this time
172	Can you please describe who the users of this solution will be?			Please refer to RFI page 5 item "n"
173	What kinds of outcomes do you expect from the research & analytics sandbox to drive business transformation?			We cannot share this information at this time
174	Please confirm this information will be updated on the NYS Contract Reporter.			All updates will be posted to www.nysif.com/procurement
175	Does this RFI specifically involve fraud detection and screening solutions for Workers Compensation Claims? If so, can you give some detail describing what would be the success criteria and high-level functional requirements of a Workers Compensation Claims Fraud Detection Solution?	4	6.2.j	Includes but not limited to the use cases listed in the question, We cannot share additional information at this time
176	Does this RFI specifically involve fraud detection and screening solutions for the Workers Compensation Underwriting process? If so, can you give some detail describing what would be the success criteria and high-level functional requirements of a Workers Compensation Underwriting screening solution?	4	6.2.j	Includes but not limited to the use cases listed in the question, We cannot share additional information at this time
177	Are there any elements of NYSIF's existing analytics solution that NYSIF might be inclined to keep or preserve in their future state solution?			We cannot share this information at this time
178	Is NYSIF able to share any details about the relative priority or urgency of each or some of the technical requirements shared in this solicitation?			We cannot share this information at this time
179	What is NYSIF's vision for developing NYSIF resources in these technologies? Is it anticipated that any future solicitation on this topic will include substantial training, or recruiting to support and leverage the future state solution?			We cannot share this information at this time
180	The operational Data store is in which relational / noSQL database? Can you share the name and version of the database?	4	6.1	We cannot share this information at this time
181	Is this an on-prem deployment or cloud deployment	4	6.1	Unknown at this time
182	Which ERP system(s) are we using that is generating this data?	4	6.1	We cannot share this information at this time

Question #	Question	Page	Section	NYSIF Response
183	How many tables and how many databses do we have in the DW	4	6.1	We cannot share this information at this time
184	How many records do you have in the top3 tables of your 3 largest databases ?	4	6.1	We cannot share this information at this time
185	Do we have any analytics tool that is being used currently ? If yes, which one ?	4	6.1	we cannot share this information at this time
186	would you want to migrate the reports that are currently being used in your analytics tools to the new analytics environment?	4	6.1	we cannot share this information at this time
187	Does this mean that the data collected in the ERP and other systems should be available for reports in the near real-time? Or does this mean that the expectation of NYSIF to create an ERP system that will accept information for it's system of records?	4	6.2c	We cannot share this information at this time
188	Our tool has inbuilt analytics module, the expectation here is that we should be able to use this same data in other visualization / analysis tools in case a user desires, is that a correct understanding?	4	6.2f	we cannot share this information at this time
189	How does NYSIF define Realtime and near-Realtime data collection? Should collection of data be trickled, streamed or batch fed? Or all 3? Will Analytics Tools need to access Realtime data directly? If possible, can you elaborate on the types of data sources?	4	6 c	we cannot share this information at this time
190	Could you please provide some additional detail around the term Coherence, as it relates to your Analytics/Data Science requirements?	5	6 m	Required capabilities are listed in the RFI
191	In order to provide the most comprehensive response to your RFI requirements, we respectfully request a one (1) week extension to the 8/7 submission deadline.			Yes, extend to (8/14/2023)
192	What types of information are you looking for through this RFI for the items listed under Section 6: Requested Information? Are you looking for vendor's expertise/ capabilities around these items?	4	6	Both, NYSIF is looking for best available solution that can meet the majority of listed requirements No additional information is available at this time
193	Could you please provide more details on the problem statement & envisioned end-state you like to achieve through this engagement?	1	2	we cannot share this information at this time
194	What are some of the use cases you wish to implement through this engagement for -Analytics -Business intelligence -Data science	1	2	we cannot share this information at this time

Question #	Question	Page	Section	NYSIF Response
195	Does NYSIF have any systems implemented currently that you want to enhance through this engagement? If yes -Could you please provide more details on the tool/ tech stack, current state architecture, process flows etc.? -What are the kind of challenges associated with the the current system you wish to overcome?	1	2	we cannot share this information at this time
196	Do you have a footprint on AWS cloud or any other cloud vendor? If yes, then can you share your current landscape details?	1	2	we cannot share this information at this time
197	Can you define the scope of the entire engagement. Choose from below or add to below pointers to build a high level understanding - Designing a scalable data lake platform for analytics use case - Migrating the historic data across different sources - Developing the Incremental data Pipeline/ETL jobs to ingest the new data into the warehouse - Develop the data marts on the warhouse for different BUs - Implement Data Governance, MDM and Data Access control mechanism - Develop Dashboards and Reports - Develop a web layer with user authentication to access different business KPIs	1	2	Unknown at this time
198	What categories of datasets do you currently have and would want to integrate with the new solution?	4	6	we cannot share this information at this time
199	Kindly fill out the details of the data sources that need to be considered in the adjacent tab - 'Data Sources'	4	6	we cannot share this information at this time
200	Is there a need to migrate 88 TBs of historical data (Data Warehouse & Operational Data Store) to a cloud based platform (across all the environments)?	4	6	Unknown at this time
201	Are you looking to re-architect your current ETL platform? Is there any specific choice of AWS services or any other application you want to migrate and why?	4	6	Unknown at this time
202	Could you please provide examples of existing ETL/ ELT jobs (if any) & the type of actions they perform (for ex: normalization, de-deuplication, summary/ aggregations etc.)	4	6	we cannot share this information at this time

Question	Question	Page	Section	NYSIF Response
#		-	_	
203	Are there any commercial/homegrown tools you use for ETL/	4	4 6 v	we cannot share this information at this time
	ELT? What is the preferred programming language (Java,			
204	Python, Scala, SQL etc) What are the current challenges in the process?	4	6	we cannot share this information at this time
204	-Transformation step processing too slow	7		we cannot share this information at this time
	-Write to destination is too slow			
	-Read from destination is too slow			
	-Read from source is too slow			
	-Any other			
205	Are you looking to re-architect your current ETL platform? Is	4	6	Unknown at this time
	there any specific choice of AWS services or any other			
	application you want to migrate and why?			
206	We understand that you have a centralized data warehouse.	4	6	Required capabilities are listed in the RFI
	Is the objective of this engagement to modernize this platform			
	for analytics use cases?			
207	Where is DW hosted and users of DW located? How many end	4	6	we cannot share this information at this time
	users are present as of today and expected to grow in next 2-			
	3 years (Ad-hoc users/analysts, scheduled queries/reports, ML			
	training/advanced analytics queries)			
208	What is the DW built on currently? (Teradata, Vertica,	4	6	we cannot share this information at this time
	Hadoop, Spark, Cassandra, Elasticsearch, other no/SQL tools,	•		
	etc)			
209	Which downstream tools/Apps query the Data in EDW/Data	4	6	We cannot share this information at this time
	Lake?			
210	Are the existing BI tools on premises or on cloud?	4	6	We cannot share this information at this time
211	what are the number of dashboards which you currently have	4	6	We cannot share this information at this time
242	and you would want to migrate to new tool?	4		
212	What are the current pain points, gaps with respect to insights	4	6	we cannot share this information at this time
	and dashboarding for your current business intelligence			
213	solution What kind of data needs to be used to build the dashboard?	4	6	we cannot share this information at this time
213	(eg. compensation distribution, funding analysis etc). Do we	4	0	ואיפ כמוווטנ אומופ נווא וווטווומנוטוו מג נווא נווופ
	have any data points/type of data?			
	indive any data points/type of data:			
214	Are there any existing dashboards / existing themes? If yes,	4	6	We cannot share this information at this time
	please provide details around this. Is there a plan to migrate	-		
	these to another BI tool stack?			
215	How many users would be leveraging the dashboards created	4	6	we cannot share this information at this time
	as part of the Business Intelligence solution?			

Question #	Question	Page	Section	NYSIF Response
216	How would the data be utilized for analytics? Will there be any query mechanism / machine learning workloads / dashboarding etc?	5	6	Required capabilities are listed in the RFI
217	Do you leverage any machine learning tools/Notebooks currently? If yes, could you please specify? (R, Matlab, SAS, H2O, MLLib)	5	6	We cannot share this information at this time
218	What are your data governanace requirements, do you have any data compliance requirements that needs to be adhered to?	4	6	We cannot share this information at this time
219	Do you have any requirement to encrypt or mask some of the attributes from the dataset before storing them for the security purposes?	4	6	Required capabilities are listed in the RFI
220	Are you looking for a complete AWS native solution with CICD and Automation?	4	6	Required capabilities are listed in the RFI
221	What is the project/ implementation timeline you envision for engagement completion?	1	2	Unknown at this time
222	Can you describe your Machine Learning use cases that you would want to implement with the datasets?	4	6	We cannot share this information at this time
223	Would you be using any text, image or audio data for AI applications?	4	6	Required capabilities are listed in the RFI
224	Would you be using any Generative AI or Large Language model based solution on the platform?	4	6	Required capabilities are listed in the RFI
225	What are the ML use cases with semi structured and unstructured data?	4	6	We cannot share this information at this time
226	Would you require data scientist as a service to augment your workforce?	4	6	Unknown at this time
227	What are the types of Pre-canned AI/ML Solution you are loking for?	4	6	We cannot share this information at this time
228	How many users are there that will be stewards(curators) of the meta data?			We cannot share this information at this time
229	How many users will just be able to view the metadata?			We cannot share this information at this time
230	What are the top Database types for this project?			We cannot share this information at this time
231	Regarding the Proof of Value are you willing to work with us on a test plan that clearly shows what meets or doesn't meet the need?			Unknown at this time
232	Does NYSIF currently have any enterprise analytics platforms in use?			We cannot share this information at this time
233	What is the business objective of this RFI?			We cannot share this information at this time
234	Are there any high-level roadmap draft and features descriptions?			We cannot share this information at this time

Question #	Question	Page	Section	NYSIF Response
235	Is it supposed to be a) migration from existing system to a new stack/platform; or b) extension of current system by new features and improvements?			Unknown at this time
236	What is currently used data storage systems/solutions used for source and target data.			We cannot share this information at this time
237	Which ETL solutions and RDBMs, NoSQL databases are currently used?			We cannot share this information at this time
238	Which security standards should be addressed? Please share if there are any other specific requirements to the security, authorisation and authentication, RBAC, etc?			We cannot share this information at this time
239	What is the business model ? Is it fixed cost ?			Unknown at this time
240	What is the business objective of this RFI?			We cannot share this information at this time
241	Is this a new project or is this an integration and upgrade to an extisitng system			We cannot share this information at this time
242	What is currently used data storage systems/solutions used for source and target data.			We cannot share this information at this time
243	Are there specific securoty and access requirments?			We cannot share this information at this time
244	Specific requirements to the security, authorisation and authentication, RBAC, etc?			We cannot share this information at this time
245	Do we need to work any other on premise private/public cloud for extensibility?			Unknown at this time
246	How is the current team structured for development/automation/analytics/deployment? What would be the ideal team size and how would NYSIF prefer new team to be structured?			We cannot share this information at this time
247	What is are the timelines for this potential project and duration			Unknown at this time
248	Please share other technical specifications			Required capabilities are listed in the RFI
249	What level of engagement and direction will NYSIF PMs have for this project?			Unknown at this time
250	What are the project management tools currently used?			We cannot share this information at this time
251	Are there any target metrics/goals for the performance?			We cannot share this information at this time
252	Please share at least 1-2 samples of the planned ML tasks.			We cannot share this information at this time
253	Are there any specific requirements or preferences to the technology stack?			No preference
254	What is the current sustenance SLAs (hours of service) applicable for the sustenance team to support defects?			Not relevant to RFI

Question #	Question	Page	Section	NYSIF Response
255	Concerning the RFI 2023-58-IT I would like to know what are NYSIF's expectations for the "6.Requested Information". Are you expecting a detailed description of the services that can be delivered related to the knowledge areas listed in the RFI or the experience the provider has?		6	NYSIF interested in what solutions are available in the market, and their capabilities compared to requirements listed in the RFI
256	RFI states that the proposed solution must adhere to the state's accessibility and security requirements. Where can we find more information about the state's current requirements?	4	6	NYS accessibility is available to the public on the internet
257	We were wondering if sending a response to the RFI disables us from participating in the corresponding RFP.			It does not.
258	Are there any specific challenges / limitations with the current system that NYSIF would like to resolve as part of the solution?	4	6	We cannot share this information at this time
259	We assume that the vendor is expected to provide thought leadership and best possible solution to migrate data from existing data warehouse and operational data stores onto Google Cloud environment and build Business Intelligence along with ML models on top of it, please confirm?	5	6	No preference to any on-premise or cloud providers/solutions
260	Is there any type of business Intelligence being derived of the data from the data warehouse?	4	6.2 f	We cannot share this information at this time
261	What is the current setup for Identity (eg. Azure AD, on-prem AD, Okta etc.)? Is there a need to integrate with any identity provider.	4	6	We cannot share this information at this time
262	Is SSO being leveraged and if so, please confirm on the provider?	4	6.2 u	We cannot share this information at this time

Question #	Question	Page	Section	NYSIF Response
263	Please list down the response to the details below, - Data Sources (Please highlight public v/s private datasets): - Real-time or Batch data: - Percentage distribution between Structured/Unstructured/Semi Structured data: - Frequency (eg: Batch ingestion - daily, weekly and Real time - 10s,30s etc): - Data Format across Structured/Unstructured/Semi Structured (ex: CSV, Flat files, Excel files, images, videos etc): - Number of database objects (Tables / Views): - Complexity of workload (tables etc): - Involvement of PII Data:	4	6.2 d	We cannot share this information at this time
264	Can you please share a sample data schema, which will help us better understand the current state?	4	6.2 e	We cannot share this information at this time
265	Is there an existing ETL process in place which is expected to be migrated? If yes, please describe the process? (eg: no of jobs and their associated tables., complexity of jobs, ETL tools used etc) or is the expectation to build the pipelines from scratch?	4	6.2 d	we cannot share this information at this time
266	How does NYSIF acquire / ingest any 3rd party data in the current scenario? and Where is all the 3rd party data hosted / will be available for integration?	4	6	We cannot share this information at this time
267	Where is Data Warehouse/Operational Data store hosted currently?	4	6.1	We cannot share this information at this time
268	How does the existing Data Warehouse look like today? (Teradata, Vertica, Hadoop, Spark, Cassandra, Elasticsearch, other noSQL tools, etc)	4	6.1	we cannot share this information at this time
269	How many tables are there in the Data warehouse and what is the data size of each?	4	6.1	We cannot share this information at this time
270	Are there any transformations implemented before the data is being stored in the existing data warehouse?	4	6.1	We cannot share this information at this time
271	If the data existing in the data warehouse is raw data, what are the different transformations envisioned for it?	4	6.1	We cannot share this information at this time
272	Where/How do you backup and archive your data?	4	6	We cannot share this information at this time
273	Are there on-prem/any other data sources that the Data Warehouse needs to be kept in sync with (in reference to ongoing incremental migration)?	4	6.1	We cannot share this information at this time

Question #	Question	Page	Section	NYSIF Response
274	Is there any data search functionality implemented on the existing data warehouse currently ?	4	6	We cannot share this information at this time
275	What are the downstream systems that will consume the migrated data?(except for BI tools and ML models)	4	6	We cannot share this information at this time
276	What is the volume/profiles of end users expected to access the data dictionary functionality ? and what is the the expected YoY growth rate anticipated in such end users ?	4	6.2 r	We cannot share this information at this time
277	Are there any data governance/quality/lineage implemented on the data in the current state? If not what data governance/quality/lineage requirements are you focusing on in the target solution?	4	6.2 s	We cannot share this information at this time
278	What are the current tools that NYSIF uses for reporting? Are these on premises or on cloud instances which are being used? For Exp - Tableau, PowerBI, Cloudera, QuickSight, Looker, etc	4	6.2 f	We cannot share this information at this time
279	Can you please provide details related to Volumes, KPI's, Metrics etc of existing dashboards / Reports?	4	6.2 f	We cannot share this information at this time
280	What are the current pain points, gaps wrt insights and dashboarding?	4	6.2 f	We cannot share this information at this time
281	What are the metrics/KPIs that envisioned to be tracked on NYSIF dashboards?	4	6.2 f	We cannot share this information at this time
282	What would be the frequency of refreshing the dashboards for the users? Is it based on a fixed time or new data ingested in the system? What is the minimum acceptable latency?	4	6.2 f	We cannot share this information at this time
283	What is the total number of users (total and parallel) for the dashboards? what is the YoY growth rate anticipated in the number of users	4		We cannot share this information at this time
284	We assume that expert data scientists, citizen data scientist, data engineers, application developers and business analysts are the different user profiles/roles who are expected to use the dashboards. Kindly validate?	4	6.2 f	We cannot share this information at this time
285	How is NYSIF envisioning the end users to consume the dashboards being built ? (E.g.: QuickSight / Email / Embedded in any other application etc.)	4	6.2 f	Required capabilities are listed in the RFI
286	Any real time alerts to be generated based on trends and data?	4	6.2 f	Unknown at this time

Question #	Question	Page	Section	NYSIF Response
287	Will performance optimization be required on the reports? If yes, please share some details about the pain points faced in performance management?	4		We cannot share this information at this time
288	Can you please provide more clarity on the following terminologies used as part of the RFI 1. Delivery 2. Coherence 3. Collaboration	5	6.2 k	We cannot share this information at this time
289	What level of open source support is expected in the ML Model management? (integration of any software,tools,frameworks into the workflow etc) Are there any potential legal and license considerations related to the same?	4	6.2 h	Solution should provide access to best available open source tools/packages. Legal and licenses are carefully reviewed and approved on case per case basis
290	What are the specific use cases or business problems the machine learning models are expected to solve?	4	6.2 h	We cannot share this information at this time
291	What are the primary data sources that will be used to train and validate the machine learning models?	4	6.2 h	We cannot share this information at this time
292	What is the volume, variety, and velocity of the data that will be processed by the machine learning models?	4	6.2 h	We cannot share this information at this time
293	How frequently is the data being updated, and what will be the process for refreshing the data to maintain model accuracy?	4	6.2 h	We cannot share this information at this time
294	Has the data undergone any preprocessing or data cleaning to address missing values, outliers, or inconsistencies? Are there any data quality issues that need to be resolved before using the data for model training?	4	6.2 h	We cannot share this information at this time
295	Is the data labeled or annotated for supervised learning tasks, if applicable?	4	6.2 h	We cannot share this information at this time
296	What level of automation is desired in the machine learning model development process using AutoML?	4	6.2 h	We cannot share this information at this time
297	What are the specific use cases or business problems where AutoML is expected to be applied to develop machine learning models?	4		We cannot share this information at this time
298	Is there any domain knowledge and business rules to be incorporated into the feature engineering process to ensure relevant and meaningful features are generated?	4	6.2 h	We cannot share this information at this time

Question #	Question	Page	Section	NYSIF Response
299	Are there any constraints or considerations regarding the computational complexity of feature engineering methods, given the scale of data and computing resources available?	4	6.2 h	We cannot share this information at this time
300	Are there any specific requirements or preferences for the machine learning algorithms or frameworks to be used for model creation?	4	6.2 h	We cannot share this information at this time
301	What are the specific performance metrics considered to evaluate the effectiveness of the trained machine learning models during testing?	4	6.2 h	We cannot share this information at this time
302	Are there any constraints on inference time or resource usage during model testing?	4	6.2 h	We cannot share this information at this time
303	How will NYSIF handle model testing for different user segments or business scenarios, if applicable?	4	6.2 h	We cannot share this information at this time
304	What infrastructure and technologies are to be considered in deploying machine learning models?	4	6.2 h	We cannot share this information at this time
305	Are there any existing business systems or applications that will interface with the deployed models?	4	6.2 h	We cannot share this information at this time
306	What are the specific monitoring metrics and performance indicators you are looking to track for the deployed machine learning models?	4	6.2 h	We cannot share this information at this time
307	What is the desired frequency of monitoring? Should it be real-time, near real-time, or periodic?	4	6.2 h	We cannot share this information at this time
308	What is the expected level of granularity in the monitoring reports? Should it provide a high-level overview or detailed insights into model behavior?	4	6.2 h	We cannot share this information at this time
309	What is the expected model maintenance activities?(eg. updates, retraining, and optimization)?	4	6.2 h	We cannot share this information at this time
310	Are there any compliance or regulatory requirements that need to be considered during model maintenance?	4	6.2 h	We cannot share this information at this time
311	Will there be a process for data versioning to ensure consistency and reproducibility of the models over time?	4	6.2 h	Unknown at this time
312	Are there any data retention policies and data archival for historical model training and analysis?	4	6.2 h	We cannot share this information at this time
313	Are there any data governance committees or stakeholders responsible for overseeing data model governance, and what are their roles and responsibilities?	4	6.2 h	We cannot share this information at this time
314	What is the current data model governance framework, and what are its key objectives and principles?	4	6.2 h	We cannot share this information at this time

Question #	Question	Page	Section	NYSIF Response
315	Are there any tools or technologies used to support data model governance, such as data modeling tools or metadata repositories?	4	6.2 h	We cannot share this information at this time
316	How will NYSIF define and quantify the expected business outcomes or improvements resulting from the deployment of the machine learning models? Will the business value tracking process consider both quantitative (e.g., revenue, cost savings) and qualitative (e.g., customer satisfaction, user experience) factors?	4	6.2 h	We cannot share this information at this time
317	What methods or tools will be used to collect, analyze, and visualize the business value data?	4	6.2 h	We cannot share this information at this time
318	Will the business value tracking process be integrated with other performance measurement systems or business intelligence tools?	4	6.2 h	We cannot share this information at this time
319	What specific pre-canned AI/ML solutions are being considered for adoption, and what are their key features and capabilities?	4	6.2 h	We cannot share this information at this time
320	What level of customization and configurability are the precanned solutions expected to offer?	4	6.2 h	We cannot share this information at this time
321	What level of interpretability or transparency is expected from the AI models, and how will it be defined for different use cases?	4	6.2 i	We cannot share this information at this time
322	What are the specific use cases or scenarios where explainable AI is expected to play a crucial role?	4	6.2 i	We cannot share this information at this time
323	What specific business questions or forecasting objectives will the time series analysis address?	4	6.2 j	We cannot share this information at this time
324	What are the specific business questions or hypotheses that the cohort analysis aims to address?	4	6.2 j	We cannot share this information at this time
325	What specific business scenarios or use cases will be targeted for predictive analytics, and what are the expected outcomes or predictions?	5	6.2 j	We cannot share this information at this time
326	What is the current setup for Identity (eg. Azure AD, on-prem AD, Okta etc.)? Is there a need to integrate with any identity provider.	5	6.2 u	We cannot share this information at this time
327	Do we need to sync users and passwords to Cloud Identity or are we planning to use SSO for authentication?	5	6.2 u	We cannot share this information at this time
328	Is SSO being leveraged and if so, please confirm on the provider?	5	6.2 u	We cannot share this information at this time

Question #	Question	Page	Section	NYSIF Response
329	Is there any requirements on connecting GCP with on- prem/Azure/AWS (such as Cloud VPN, Partner Interconnect, etc)?	5	6.2 u	We cannot share this information at this time
330	Is there any requirements on integrating the Cloud platform with third party tools (such as Security, Monitoring, Logging, Billing, etc)? Please list down the tools. (Some examples of these tools are Datadog, Splunk, ServiceNow, NewRelic, AlienVault etc.)	5	6.2 u	We cannot share this information at this time
331	Is there a need of CI/CD based deployment model for your GCP Environment? What is the current CI/CD tool being used currently?	5	6.2 u	We cannot share this information at this time
332	Which Compliance or regulations would you like to apply on the cloud Environment? (HIPAA, CCPA, GDPR, SOC2, HITRUST etc.)	5	6.2 u	We cannot share this information at this time
333	Any other networking setup that needs to be implemented in the Foundations setup? (eg. on-prem DNS, hybrid DNS resolution between on-prem and GCP, DMZ etc.)	5	6.2 u	We cannot share this information at this time
334	Do we need to perform log export to Cloud Storage or any other 3rd party tool?	5	6.2 u	Not relevant to RFI
335	Is there a need to implement NGFW appliance? (eg. Palo Alto)	5	6.2 u	Not relevant to RFI
336	Please can the Customer list all regulatory or privacy requirements (plus controls) that you are required to adhere to?			we cannot share this information at this time
337	What are the platforms leveraged with existing AI/ML model development today if any?			we cannot share this information at this time
338	Does the Customer prefer serverless or kubernetes based solutions?			we cannot share this information at this time
339	Does the Customer currently use ML frameworks other than TensorFlow? Does the Customer currently have any AI/ML models running in production today?			we cannot share this information at this time
340	How large is the Customer's team that will be managing the day to day operations of this platform, or does NYSIF wish to outsource the operations and maintenance of this platform?			we cannot share this information at this time
341	What difficulties exist today in pulling information out of source systems? Are REST APIs used?			we cannot share this information at this time

Question	Question	Page	Section	NYSIF Response
# 342	Will the team look to interactively drill down on specific aggregations in order to know breakdown by individual records?			Required capabilities are listed in the RFI
343	The RFI mentions that the NYSIF Data Warehouse & Operational Data Store has 22 TB with 2.1 TB estimated annual increase. Would you be able to provide technical details on what platform the DW and ODS are running on, as well as what type of data is being fed into it?	4	6	we cannot share this information at this time
344	Can Customer provided additional visibility into the data type(s), number of sources, security and governance requirements per source?			we cannot share this information at this time
345	What are the data retention requirements for solution data sources?			we cannot share this information at this time
346	What upstream and downstream systems and platforms outside of Customer environment will interact with the solution architecture? (to help gauge complexity and number of APIs)			we cannot share this information at this time
347	What business objectives must this solution address? How will the solution be used?			Required capabilities are listed in the RFI
348	What types of questions is the solution required to address? Are there specific KPIs? Metrics? Analytic questions or use cases?			Required capabilities are listed in the RFI
349	Will this require that 30% of the work be allocated a New York based small company?			The goal requirements are unknown at this time.
350	Will there be a requirement that the bidder has three (3) years of experience working with similar data in the NY?			Not for RFI process
351	How many users does that NYSIF intend to have access to or use the solution?	4	6.2 g	we cannot share this information at this time
352	Is NYSIF expecting responses only from product vendors or also from System Integrators	1	2	All vendors who can support the majority of RFI listed requirements are encouraged to submit their responses
353	Does NYSIF have a product vendor of choice?	5	6.2	No
354	Please confirm our understanding that respondents do not need to respond to all questions in segment 6	5	6.2	All vendors who can support the majority of RFI listed requirements are encouraged to submit their responses
355	Where is the current DWH? On-prem or in the Cloud? What are the data sources?			we cannot share this information at this time
356	What is the metric for Performance and scalability?			we cannot share this information at this time
357	What are the NYSIF security requirements?			we cannot share this information at this time

Question #	Question	Page	Section	NYSIF Response
358	In the RFI document it says the Product must adhere with New York State accessibility and security requirements. What are those requirements? Could you share details of how it is being met currently?			NYS accessibility is available to the public on the internet
359	Is NYSIF already using any Metadata Managament or Governance tools? What are your expectations around governance, metadata management, data lineage?			we cannot share this information at this time
360	Is NYSIF looking to use all of the mentioned tools / capabilities in the RFI ? Is NYSIF already using these tools / capabilities ?			All vendors who can support the majority of RFI listed requirements are encouraged to submit their responses
361	Support for multiple data analysis/visualization tools (TIBCO Spotfire, MS Excel, MS Power BI, Tableau). - Could you share more details about their current usage s? Details include - how many reports are currently in use, what are the use cases, etc. -Will the viewers of the report(s) be internal and/or external (if external will it be a secure named viewer and/or publish to public web – no authentication) -How often do you want the Report to be refreshed with new/updated data? -Do you currently have any inhouse experience with Microsoft Power RT2			we cannot share this information at this time
362	Could you share more details about your data sources (currently) for Data warehouse and what are (planned) future requirements? It would be helpful to know more about realtime and/or near real time data sources.			we cannot share this information at this time
363	Do you presently have any predictive analytics capabilities? Could you briefly describe the structure, usage patterns, and source/destinations of the data you are performing these analytics on, as well as the tools and analytics architecture in place today to enable these predictive analytics?			we cannot share this information at this time
364	How is Advanced Analytics/predictive analytics being done today? Locally or cloud?			we cannot share this information at this time
365	Are there any predictive models in production today?			we cannot share this information at this time
366	Are there any use cases which leverage unstructured data - text notes, images, pdfs?			we cannot share this information at this time
367	What is the data readiness for implementing AI models?			we cannot share this information at this time

Question #	Question	Page	Section	NYSIF Response
368	Could you share more details about your expectations and requirement for performance? What are you scalability expectations and requirements?			we cannot share this information at this time
369	Is there any preference based on needs/affinity toward onsite, edge, or cloud compute to support the required AI/ML advanced analytics operations capability?			Unknown at this time
370	Are there any use cases for extracting data from documents - word, pdf, images, etc to enhance data ingestion and analytics?			we cannot share this information at this time
371	What is your current cloud stack? Please provide a brief description of Cloud service providers, cloud devops tools, CI/CD tools in use today, along with any AIOps/MLOps CSP service offerings you are using.			we cannot share this information at this time
372	Similarly, could you comment on the types of data that exist within your data envt (structured, unstructured and semi-structured data)?			we cannot share this information at this time
373	Consumption of advanced analytics is a key enabler in unlocking the full value. Could you provide further detail into the nature of the personas who will be consuming the byproducts and end products of the analyzed data? Eg. Will there be a requirement for a full SPOG dashboard? What is the expectation for data output? Is there an expectation for automation based upon generated insights?			Unknown at this time
374	What is your current tech/tools for data analysis and business intelligence? Can you name the solutions used and whether onprem or cloud?	4 & 5	6	we cannot share this information at this time
375	What are the challenges in your current solution?	5 & 5	6	we cannot share this information at this time
376	Does NYSIF have staff for on-going maintenance and support of the technical solution?	6 & 5	6	we cannot share this information at this time
377	Do NYSIF staff currently perform data analytics (routine and advanced)? Which, if any, AI or ML tools are currently employed?	7 & 5	6	we cannot share this information at this time
378	Can you please provide more information or examples on the type of data sources used?	8 & 5	6	we cannot share this information at this time
379	What are the expected requirements for reliability and availability of the solution?	9 & 5	6	Unknown at this time
380	Is there an expected level of effort or resource availability such as budget that can be shared?	10 & 5	6	we cannot share this information at this time
381	Do you have funding for the project RFI #2023-58-IT	4		Not relevant to RFI

Question	Question	Page	Section	NYSIF Response
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382	Do you have an existing vendor, If yes then why are you looking for replacing it? Could you share the name of vendor.	4		No
383	Though we are a US based company HQ in New Jersy, Could we deliver the project using hybrid delivery method Onshore (USA) and Offshore (India).	5		There is not a prohibition on companies headquartered or based outside of the US, however a foreign country must: (1) Be able to provide evidence of responsibility and legal authority to do business with NY State and, (2) Not be a debarred business entity by NY State, (3) Vendors must consent to service of process, legal jurisdiction and choice of applicable laws in the State of New York, USA, and finally, (4) Security requirements may restrict storage and use of NYSIF data (in any form) to the United States.
384	What do you mean by this? Do you mean Gen AI.	4	6.2 i	Not Gen AI
385	How often is the replication process scheduled to keep the environments up to date?	4	6	we cannot share this information at this time
386	What is the type of technology used to replicate data to the four environments?	4	6	we cannot share this information at this time
387	How is the data warehouse and operational data store structured?	4	6	we cannot share this information at this time
388	Are there any security protocols enabled/to be followed for replication?	4	6	we cannot share this information at this time
389	How are changes currently being deployed in the data warehouse and operational data?	4	6	we cannot share this information at this time
390	What is the expected response time for query?	4	6	we cannot share this information at this time
391	What is the security level that must be met for NYS requirement?	4	6	we cannot share this information at this time
392	What are the number of data sources that must be supported at a minimum?	4	6	we cannot share this information at this time
393	What are the capabilities that you need for the user interface?	4	6	Required capabilities are listed in the RFI
394	How many external integrations are neeeded?	4	6	Unknown at this time
395	What types of advanced analytics features must be there at a minimum?	4	6	Required capabilities are listed in the RFI
396	What types of Explainable AI (XAI) tools does the product need to support?	4	6	Unknown at this time
397	How many concurrent users will be using the application?	5	6	we cannot share this information at this time
398	What is the current userbase of expert data scientists, citizen data scientists, data engineers, application developers and business analysts?	5	6	we cannot share this information at this time

Question #	Question	Page	Section	NYSIF Response
399	What are the minimum built-in data lineage and metadata management features that you are looking for the solution to have?	5	6	Required capabilities are listed in the RFI
400	How is the Business Data Dictionary structured and organized?	5	6	we cannot share this information at this time
401	What is the data governance requirement?	5	6	Unknown at this time
402	Please elaborate the requirements for Cost control, monitoring, auditing	5	6	we cannot share this information at this time
403	Item 2 w asks on premise or cloud implementation: Would NYSIF want the flexibility to run the Data Warehouse in a hybrid (on prem and in cloud) and/or multi-cloud implementation?			Unknown at this time
404	Item 2 c asks for Realtime or near-Realtime data collection. Can NYSIF let us know what some data collection streams are, such as network monitoring and logging or web feeds etc?			we cannot share this information at this time
405	In general and in reference to Predictive and Prescriptive Analytics, does NYSIF have any outcome goals such as reducing fraud, improving cybersecurity, optimizing premiums etc?			we cannot share this information at this time

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