Analytics Platform Assessment Questionnaire - Analytics Strategy

Serial No.	Question	Response
1	Do you have the business objectives or business outcomes defined for the Analytics Platform? Please provide the details.	
2	Are the business performance criteria for the Analytics Platform defined with measurable criteria? Please provide the details.	
3	How will the new Analytics Platform be funded? As a central IT function or by one-off projects sponsored by business units?	
4	Do you have external stakeholders for your data? i.e., your customers or business parterns who may use you data as a service. Are there such use cases? Or is it purely for internal needs at the moment?	
5	Are you considering Open Source products or open to COTS only?	
6	Are you open to using Appliance based solutions from vendors that combine hardware and software into a pre-installed appliance?	
7	Where will the data platform be deployed? (On-premise data centers, hybrid, private/public cloud, PaaS etc.)	
8	Are you open to non-hadoop based Big Data products?	
9	Are you looking for edge analytics? In edge analytics data can be processed near the source (i.e., sensors) and not all data is sent back to a backend data platform. For large-scale IoT deployments, this functionality is critical because of data volumes as well as speed of processing needed.	
10	What are the top 5 business use cases for the Analytics Platform? e.g. Customer Value Analytics, IoT Analytics etc.	
11	What are the top 5 business use cases for real-time streaming Analytics?	

Serial No.	Question						
1	**List down the names of the data warehouses / data marts / BI solutions that are in use presently**						
	Data Warehouse/Marts/BI repositories	Source of data	Volume of data	End-Users / Businesses / Department	Present issues/Pain Points	IT/Business support staff	Functional description and business value.
2	**List down the ETL solutions that are in use presently**						
	ETL Projects	Source systems	Target systems	End-Users / Businesses / Department	Present issues/Pain Points	IT/Business support staff	Functional description and business value.
3	**List down the Data mining / Data exploration/OLAP workbenches/softwares solutions that are in use presently**						
	OLAP/Data Mining Projects	Platform used	Data sources accessed	End-Users / Businesses / Department	Present issues/Pain Points	IT/Business support staff	Functional description and business value.
	List down the Database Technologies used at present						

Serial No.	Question						
4	Database name	Technology Platform e.g. Oracle, MySQL, MS SQL Server etc. and version	Type e.g. RDBMS NoSQL ObjectStore File-Store etc.	Usage patterns (OLTP application DB or DW/Data Mart report DB)	Data volume.	Growth rate in next 2 years.	Applications that use the database

Serial No.	Question						
5	**List down the future or in-flight analytics initiatives / projects envisaged by various businesses inside your organization.**						
	Business unit /Department	Business Objective & users / actors associated.	Use case description	Timeline (start and end)	Data Volume & Data Formats involved	Any real-time or streaming analytics involved?	Does it involve predictive or machine learning aspects?

Serial No.	Question							
	From what sources does your organisation collect, or expects to collect, data for analytics purposes ?							
	Data source examples (please change the list below as appropriate)	Collects data at present	Expect to collect in next 1 year	No plans to collect	No idea	Source system examples	Data volume (GB/TB)	Data refresh rate (minute, hours, days, weeks etc.)
	Sensor data							
	Social media							
	Files/structured data from other agencies							
	Data from business processes							
	Data from machinery operations							
1	Structured data from enterprise software systems or databases (CRM, BPM, Feedback systems etc.)							
	System logs							
	POS data							
	RFID / Asset data							
	Earth/Geospatial data							
	Video data							
	Audio							
	Images							
	Other files							
	Free text data							
	External data sources							

Serial No.	Question				
2	**From all the data collected by your organisation, what is the approximate percentage that is further processed for analytical value generation at PRESENT?**				
	Less than 5%				
	Less than 25%				
	Less than 50%				
	More than 50%				
3	**From all the data collected by your organisation, what is the approximate percentage that is expected to be processed for value generation in FUTURE** **[Do not consider the data in silos, not available for analyticsl purposes]**				
	% of data expected to be utilized in the future (within 1 year)				
	% of data expected to be utilized in the future (within 2 year and beyond)				
	Planning to even leverage even external data from other agencies, social media etc.				
4	**Does these collected data support any existing business processes presenlty? or to support in next 1 to 2 years?**				
	Business Process Name	Description of how Data Analytics is used for the Business Process	What are the data entities in use	What are the sources of this data?	What kind of data lifecycle is needed for this process? I.e., data preparation, data transformation/aggregation, data archival, frequency of data refresh etc.
	What are the scheduled batch data integration / transformation / reporting jobs used today or to be used in future (next 1 to 2 years)?				

Serial No.	Question							
5	Batch job name/Process name	Present / Future	Data entities	Source System (s)	Consuming System(s)	Data volume	Data Formats	Functional description and business value.
6	**What are the streaming data integration processes used today or to be used in future (next 1 to 2 years) ?**							
	Streaming data integration processes	Present / Future	Data entities	Source System (s)	Consuming System(s)	Data volume	Data Formats	Functional description and business value.

Serial No.	Question	Response
1	Are your business users looking for self-service data platform, wherein they can discover, manage, process and consume analytics on their own with minimal intervention from IT functions?	
2	Do you envisage a situation where Analytics Platform will be offered to the business units as a shared service and the respective businesses will use it as a multi-tenant platform?	
3	Presently who own the data? Is it the respective business units or is it owned by IT? Is data shared across Business Units? How?	
4	Are you envisaging cross-domain data-sharing and data-analytics projects? Please provide the information in the "Project Questions" worksheet.	
5	Do you envisage a central data service team comprising of roles like below: (Please update modify as needed). e.g., - Data Platform Operations Engineer - Data Platform Engineers - Data Platform Administrators - Data Scientists - Data Product Manager/	
6	If your business units are looking for self-services, what roles will the business units invest in? e.g., - Data Engineer - Business Domain SME - Business System SME - Developer - Data Scientist	
7	What are the key Analytics Skillsets you are presently having or planning to build in your organization e.g. - Data Science, e.g. Spark-R, R, Spark-ML, Python Datascience libraries etc. - Hadoop - Spark - Data Operations - SQL - Traditional ETL - BI & Dashboard skills - Specialized skills e.g. GIS software skills	
8	Do you have formal data governance practices? E.g. aspects of data lineage, data ownership, data security, sharing and access control of data, auditability of data access/modifications etc.	
9	Are you looking for setting up data governance and data-lifecycle management processes? Are you looking for consulting inputs ?	
10	What are the technology selection criteria for the Data Platform? Who will contribute in defining the technology selection criteria? Are you looking for consulting inputs ?	
11	Do you have a formal functional and nonfunctional requirement list available for the Data Platform? (Could be at a high-level)	