

Master Data Management (MDM) - Objectives



- Consolidate critical Information across enterprise, while reducing redundancy
- Improve data integrity and ensure accuracy, validity and completeness
- Assess & Prioritize different data
- Single Version of Truth (Domains) (MDM)
- Provide a clear understanding of the information a company collects
- Measure Enterprise wide performance
- Simplify complex and non-integrated data management processes

Management is a data strategy that companies implement via a collection of tactical initiatives that feature a common view towards a broader strategy

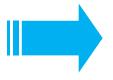
Data Challenges



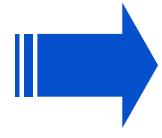


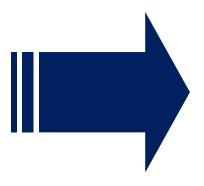
MDM - Value Proposition













Better data
hygiene drives
better data
matching

Better matching drives better Advisor & Firm identification and modeling

Better identification and modeling drives better **Advisor** interactions & campaigns

Better interactions and campaigns drive higher **Advisor**

Knowledge

Greater knowledge enhances

Advisor Experience,

Confidence, & Revenue

Opportunities

Core Features

8. Cost

How justifiable is the cost of the solution compared to its features

7. ML Abilities

Does the solution use Al or ML abilities to enhance its efficiency

6. Reporting

Data Quality Monitoring and Reporting

5. Human Roles

Ability to support multiple data governance and data steward roles



1. CORE Engine

How efficient is the core engine in terms of cleansing, matching and de-duping, Unique Keying and Concept Standardization (Address)

2. Business Rules

Interfaces for Workflows, Exception (bucket) handling, Approvals and Human Task Delegation

3.Taxanomy

Support for Business Taxonomy, Common Domains (Products, Customers etc.) and Hierarchy

4. Inter Operability

How well it integrates with current Data Management & Data Governance tools and other application systems / databases.

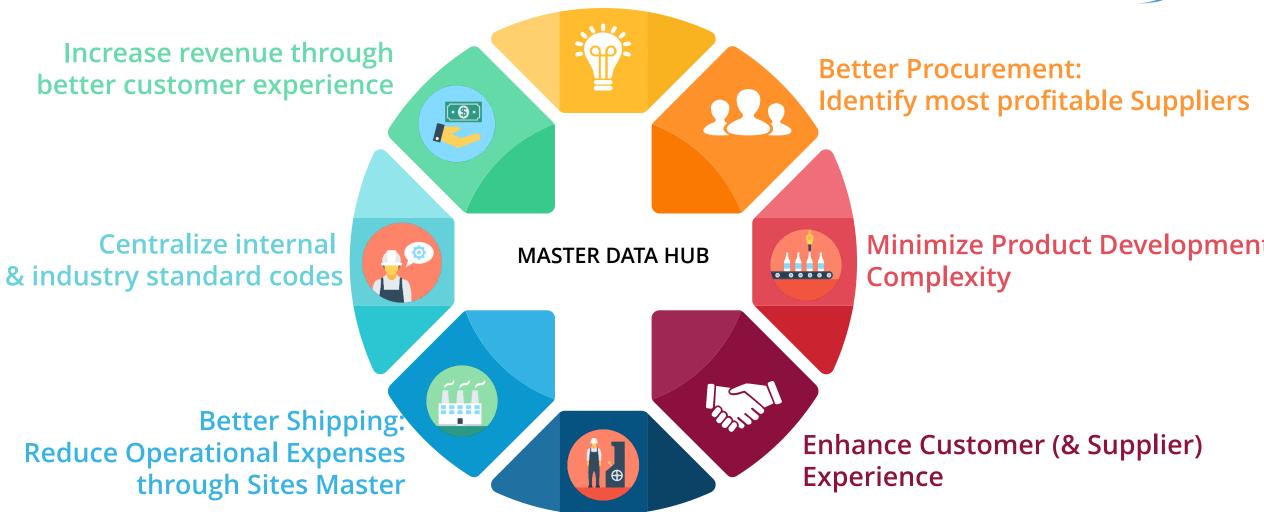
Real-Time Data Integration abilities

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Key Benefits



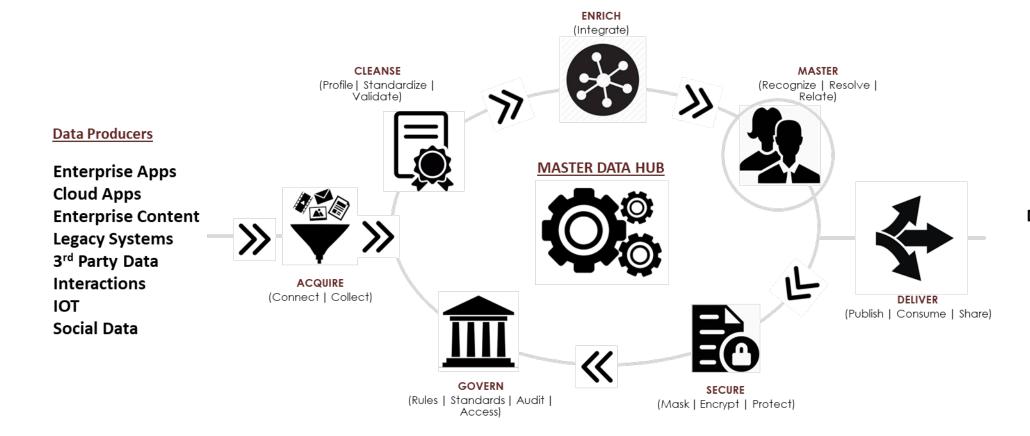




Centralize Asset Management and automate auditing & validation

MDM - Framework





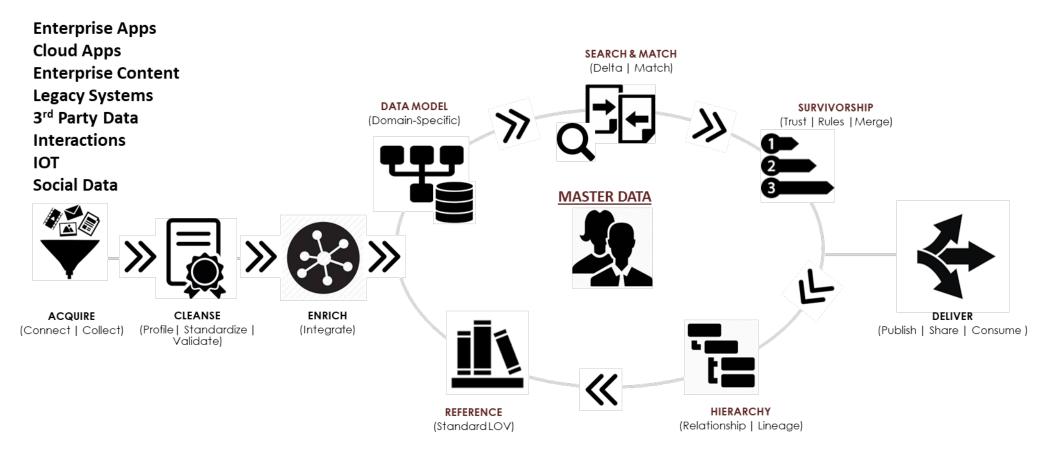
Data Consumers

Portals
Analytical Apps
Dashboards/Reports
Data Warehouse/
Data Lakes
3rd Party Feeds
Compliance

MDM - Building Blocks



Data Producers



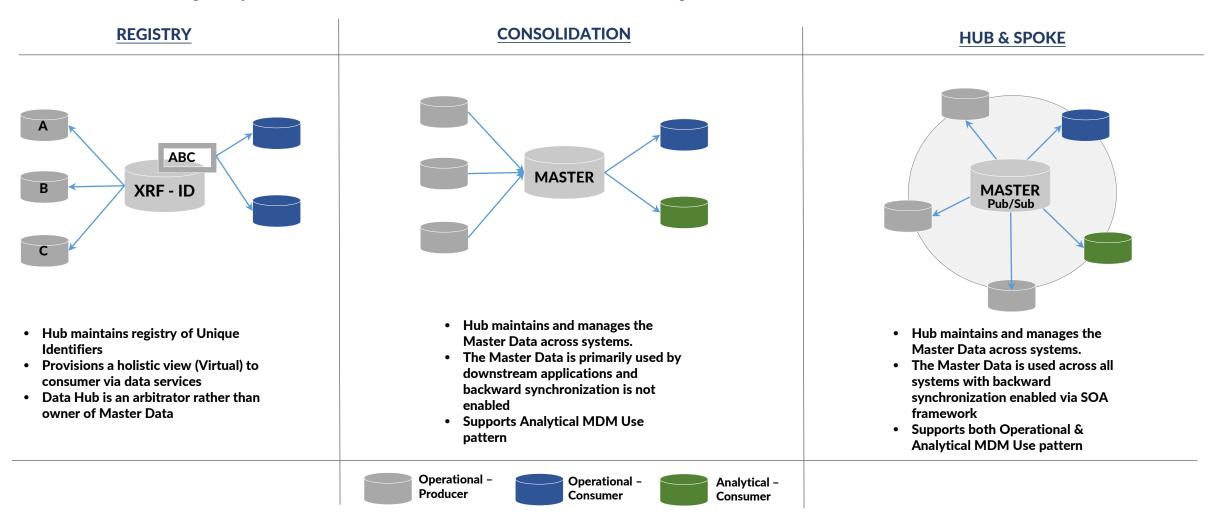
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MDM - Implementation Styles



"The variation in data hub model styles is based on the principle that it may contain all data attributes about the data domain it manages, or just some attributes, while other attributes remain in their original data stores"



MDM - Deployment Options



"The variation in data hub deployment styles is primarily based on location (cloud Vs. on-premise) of majority of the data producers for the given domain."

<u>ON-PREM</u>	CLOUD-HOSTED	CLOUD-APP HOSTED	
MDM	MDM Azure	sales force MDM	
 Greater Control (Environment/Data) No Data restrictions Lack of Agility/Elasticity/Cost advantage of Cloud Lower Productivity 	 Greater Productivity Agility/Elasticity/HA advantages of Cloud Less Control (Environment/Data) Careful planning of up-stream/ downstream data volumes. 	 Leverage Existing SF investment Low Maintenance Majority of data is generated/consumed in SF. Salesforce dependent Careful planning of up-stream/ downstream data volumes. 	
	Operational - Operational - Analytical - Consumer Consumer		

MDM - Reference Architecture



DATA SOURCES	CONNECT ACQUIRE	CLEANSE ENRICH	MASTER	DELIVER SHARE	CONSUME
ENTERPRISE APP (ERP POS Finance HR)				*	
ENTERPRISE CLOUD APP (CRM Payroll Workforce)	Batch (SQL)	Discover Profile	Model Design	Batch (SQL)	ANALYTICAL APP
8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Real-Time	Cleanse Standardize	Identity Management	Real-Time	
ENTERPRISE CONTENT (Docs Audio Video Images)	Streaming (MQ)	Validate Verify	Search Match	Streaming (MQ)	OPERATIONAL APP
		Secure Protect	Survivorship Merge		MANAGE
SMART DEVICES (IOT) (Vitals Location Performance)		Enrich Enhance	Classify Hierarchies		A
3rd PARTY DATA (Competitor Market Ratings Scores)		DATA STEWARD			
GOVERNANCE STEWARDSHIP ADMINISTRATION (Model Standardization Survivorship Rules) SERVICE LEVEL ARCHITECTURE (SOA) – (Application Integration Services)					
SOCIAL DATA (Sentiments Reviews Interactions)	BUSINESS PROCESS MANAGEMENT – (Process Model, Leveraging MDM)				ADMINISTRATOR

MDM - Cheat Sheet



- Identify data (sources & targets)
- Identify customers/Products/Suppliers etc
- Identify data owner (usually LOB or product owner)
- Semantics consolidation/data definition
- Gather requirements
- Logical data model
- Get source data into MDM Hub
- Analyze source data
- Identify data quality rules (parsing, matching, standardization, enriching)
- Master data model
- Communicate to Governance council
- Communicate to data stewards
- Define security SLA
- Define access control
- Define business process
- Define business rules
- Create mappings
 (sources → data hub → consumers)
- Enter metadata into MDM Hub
- Coordinated release of Master data



Data Governance Applied to MDM













Preparation – preliminary steps to identify key participants, key data elements & sources, and individuals to be interviewed; intent is to socialize operating model with key stakeholders; define scope and approach

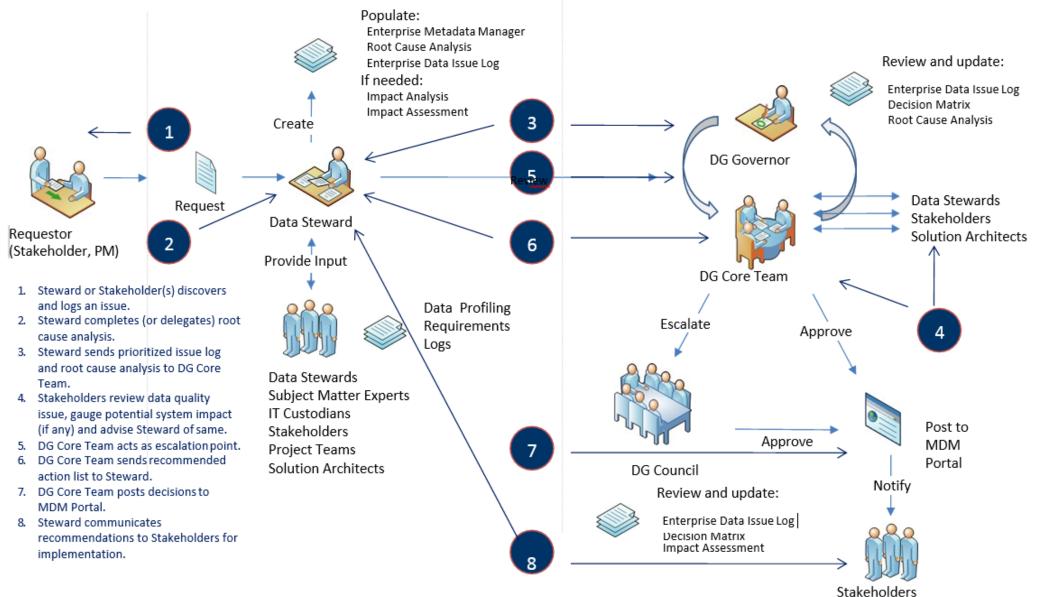
Discovery – gain understanding of the data and processes in the current environment, introduce Data Governance concepts, best practices and roll- out of Data Governance program

Analysis – pinpoint and clarify key data touch points, data handling processes, issues and workarounds; bridge from discovery to synthesis, with focus on clearly defining the current environment

Synthesis/ Recommendation – generate informed recommendations based on discovery and analysis. Tailor and define the near & future state policies and procedures, including gaps and potential remediations

Data Governance Approach





MDM - Outcomes



- O1 Unified View.. provides a unified view of Master data and enables strategic, timely & informed corporate decision making
- Redundancy Elimination ..

 Enables Reduced redundancy by consolidating various data silos.
- Data Consistency.. MDM
 guarantees data consistency,
 which enables to create
 consistent workflows

- Integration of Business Processes..
 MDM allows to streamline data across whole business creating a more productive process
- when data is considered as the new oil, a centralized analytics data hub, can truly evangelize data-first & data-driven culture within the organization
- approval workflows enables more control on the data

O7 Growth.. Adopting a data-driven culture in age of digital transformation, offers a competitive edge, opening up avenues of growth via M&A, increased market share and so on..

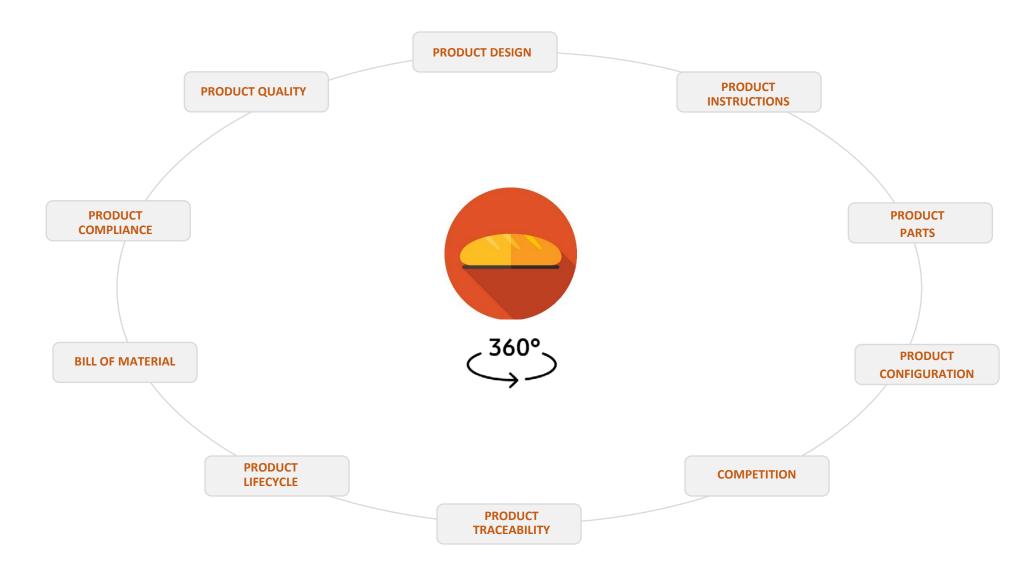


Sample Domains



Product





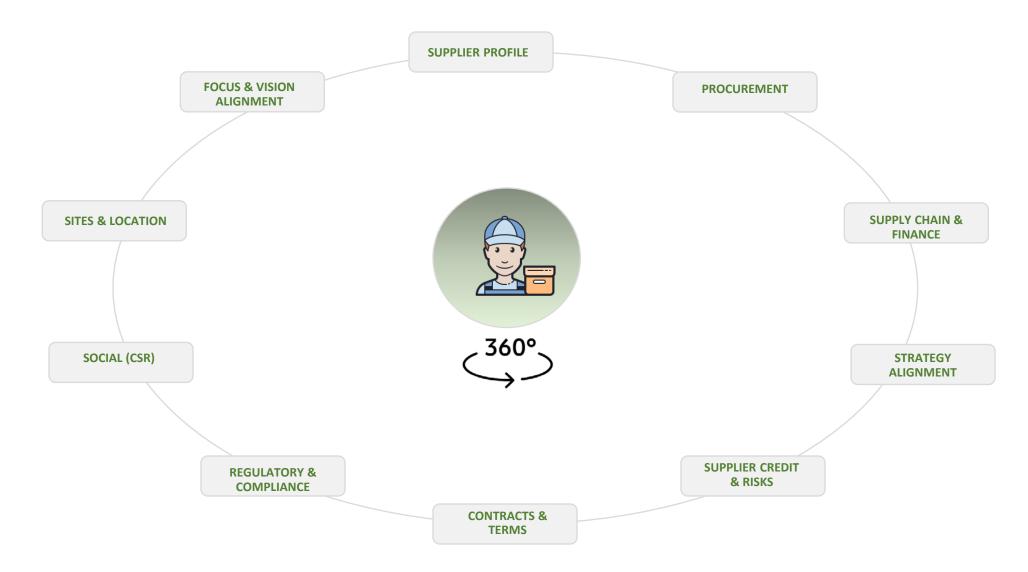
Customer (B2B)





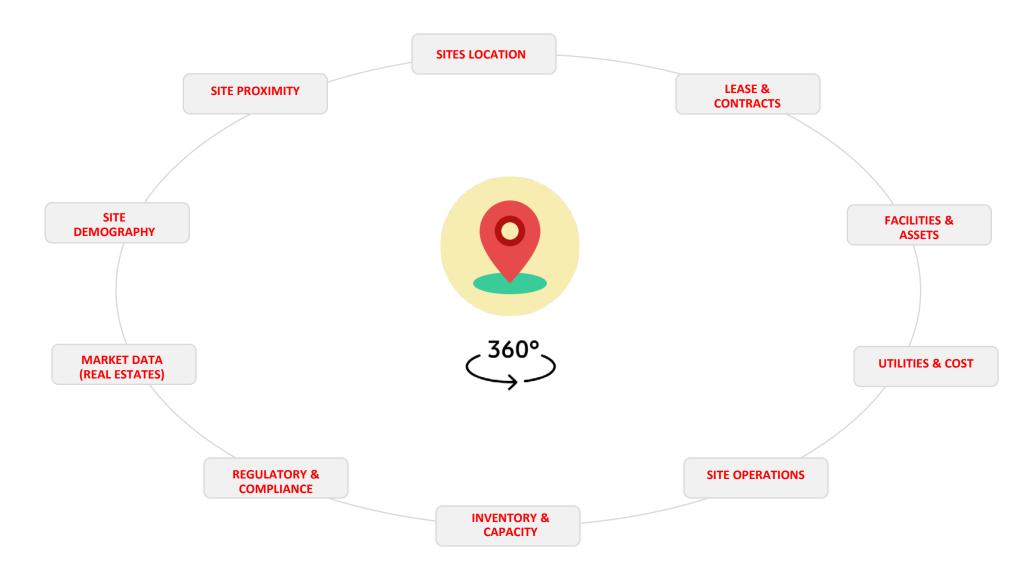
Supplier





Location (Sites)





Assets



