Big Data

Gain a clear picture of the issues and opportunities your organization would otherwise clearly miss. By enabling our team of experienced architects – highly-skilled in Data Management and Big Data technologies – and our data analysts and data scientists, who have an end-to-end view of Enterprise Architecture and legacy technologies; we help you generate valuable insights from your enterprise data assets.
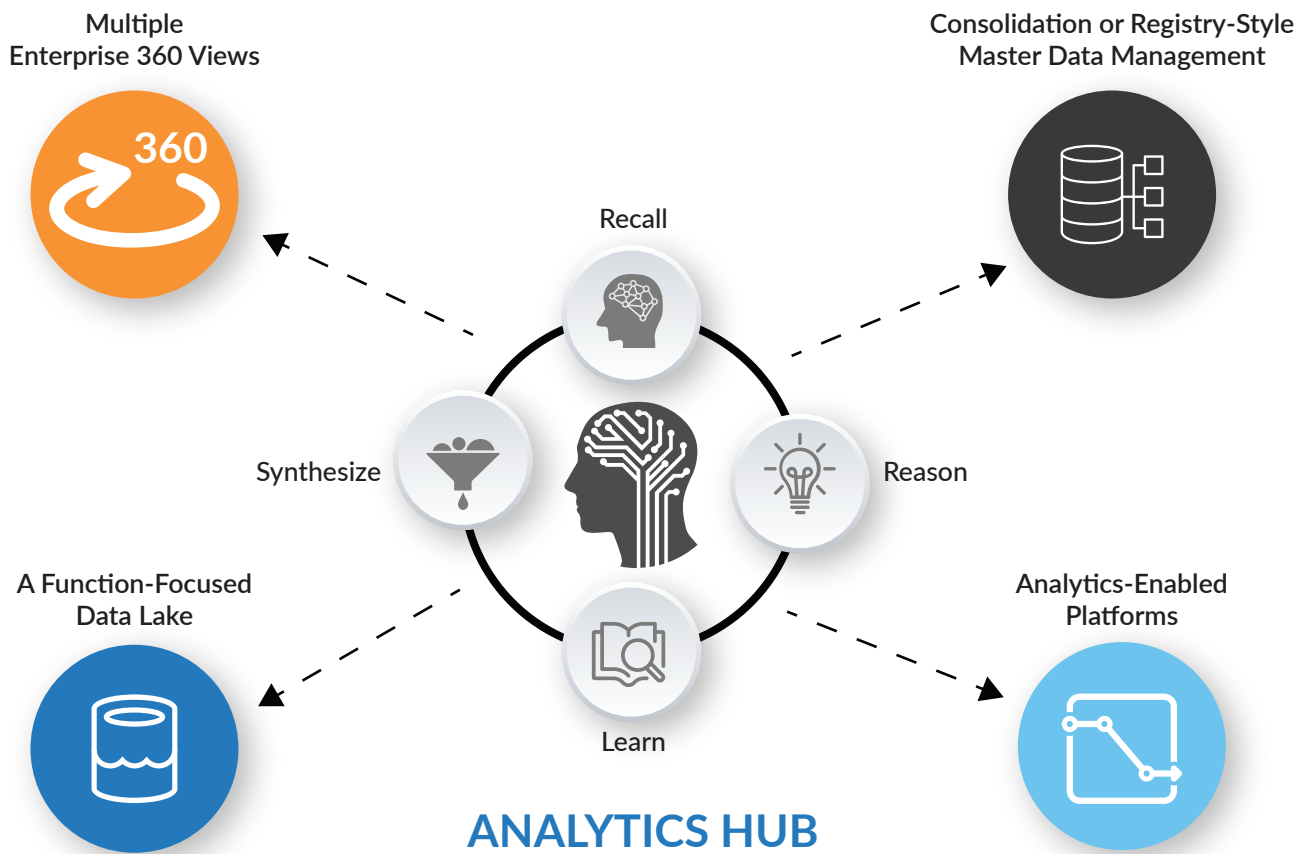
Offerings | **Advisory Services**

- How has your Big Data journey been so far?
- Have you started on one?
- Have you implemented a few phases?
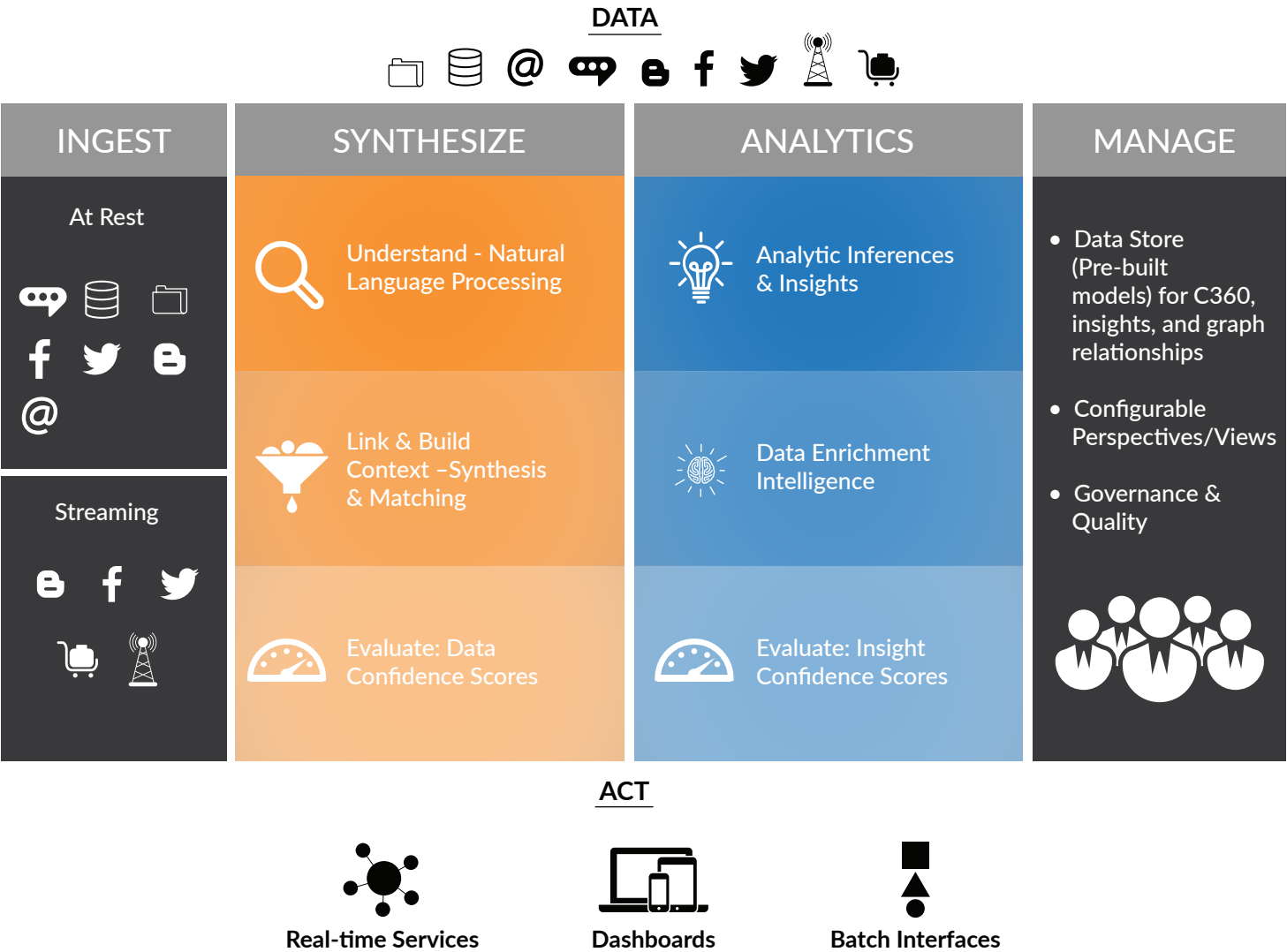- Are you live with more than one use case implemented?

The Mastech InfoTrellis Consulting Team can partner with you at whichever stage you are in, and…

Understand your Big Data & Analytics use case(s) and help prioritize them for the earliest possible return on investment

Help create a strategic business vision around your Big Data & Analytics goals, and a tactical plan to match the vision

Formulate detailed solution plans to build analytics platforms and functional data lakes, articulate and visualize data from existing Big Data platforms, and much more

Create a detailed program plan that will set your team up for early, small wins growing into big victories

Offerings | **Custom Solutions**

Multiple
Enterprise 360 Views

Consolidation or Registry-Style
Master Data Management

Recall

Synthesize

Reason

A Function-Focused
Data Lake

Learn

Analytics-Enabled
Platforms

ANALYTICS HUB

Offerings | Technology Enablement Services

DATA

INGEST

At Rest

Streaming

SYNTHESIZE

Understand - Natural Language Processing

Link & Build Context – Synthesis & Matching

Evaluate: Data Confidence Scores

ANALYTICS

Analytic Inferences & Insights

Data Enrichment Intelligence

Evaluate: Insight Confidence Scores

MANAGE

- Data Store (Pre-built models) for C360, insights, and graph relationships

- Configurable Perspectives/Views

- Governance & Quality

ACT

Real-time Services

Dashboards

Batch Interfaces

Capabilities

amazon webservices

Groovy

HIVE

APACHE Spark

AllSight

Datameer

H₂O.ai

elastic

Cloudera

hadoop

APACHE HBASE

HORTONWORKS
POWERING THE FUTURE OF DATA

ZOOMDATA

R

Scala

tableau

APACHE STORM

SQOOP

Innovation Timeline | **Three Eras of Data Management**

2010s - Present

Analytics and Data Intelligence Era

Requirements Addressed
- Big & Unstructured Data
- Power operational needs – customer care, sales, onboarding
- Power analytical needs, targeted marketing, data science, risk and fraud

Technologies
- Apache Hadoop
- Apache Spark
- Machine Learning
- Neo4j and other graph databases
- Natural language processing
- Schema-less matching
- MongoDB and Couchbase document databases

Mastech InfoTrellis brings Data Management rigor to Analytics Era.

Builds pioneering product, processes, and artifacts to enable Analytics and Data Intelligence.

Late '90s – 2010s

Data Integration and Master Data Era

Mastech InfoTrellis founding team brings discipline to Data Management through CDI / MDM systems.

Establishes Thought Leadership.

Technologies
- Relational database
- Service-Oriented Architecture (SOA)
- Message-Oriented Middleware (MOM)

Requirements Addressed
- Normalized relational customer profile
- Subset of 'master data'
- Real-time Operational use cases – integrate with CRM, web self-service

1970 – Early '90s

CIF ERA

Requirements Addressed
- Batch transaction processing

Technologies
- Hierarchical flat file