Cognitive Data Intake
– Key Building Blocks

Cognitive Data Intake is the process of intelligent sourcing, mapping, enriching, and validating data sets into common data format for ingestion into data stores and/or data warehouse/datamarts. It consists of two components:
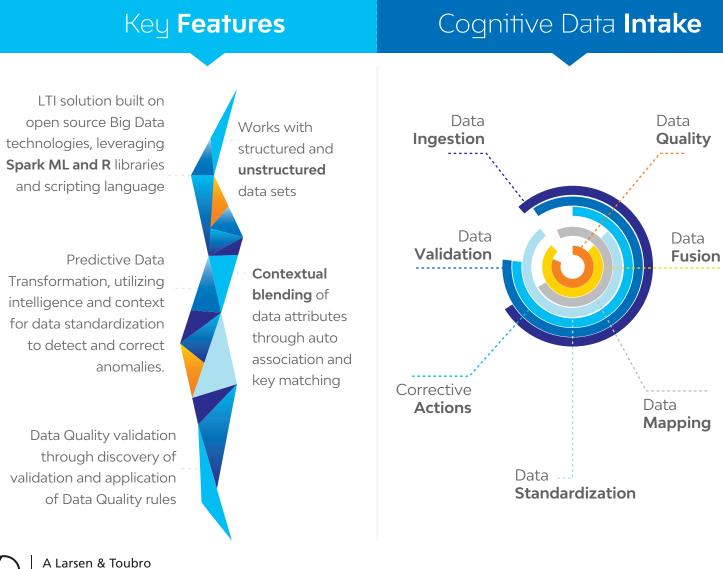
Cognitive Mapping Services

Provides self-learning automated data mapping between source and target data structures, using cognitive and machine learning-based models

Cognitive Data Validation Service

Provides a centralized self-learning-based data validation and auto correction engine consumed as API, for pre-processing and validation of data

Key Features

Cognitive Data Intake

LTI solution built on open source Big Data technologies, leveraging **Spark ML and R** libraries and scripting language

Works with structured and **unstructured** data sets

Predictive Data Transformation, utilizing intelligence and context for data standardization to detect and correct anomalies.

Contextual blending of data attributes through auto association and key matching

Data Quality validation through discovery of validation and application of Data Quality rules

Data **Ingestion**

Data **Quality**

Data **Validation**

Data **Fusion**

Corrective **Actions**

Data **Mapping**

Data **Standardization**