

#BeyondPossible



Tredence is a Data & AI consulting firm, driving value realization by enabling the last mile adoption of insights

2000+ Al & Tech specialists supporting businesses across functions by delivering contextualized, high impact solutions

Accelerator led solutions that **improve time to value by +50%** vs. traditional consulting
and technology service companies

Best in class 94% NPS customer satisfaction score driven by our laser focus on empowering decisions to help our clients win



94%

6 of the top 10 Retailers and CPGs in the World Trust Tredence to Power their Al Strategy



"Leader" in customer analytics

Gartner

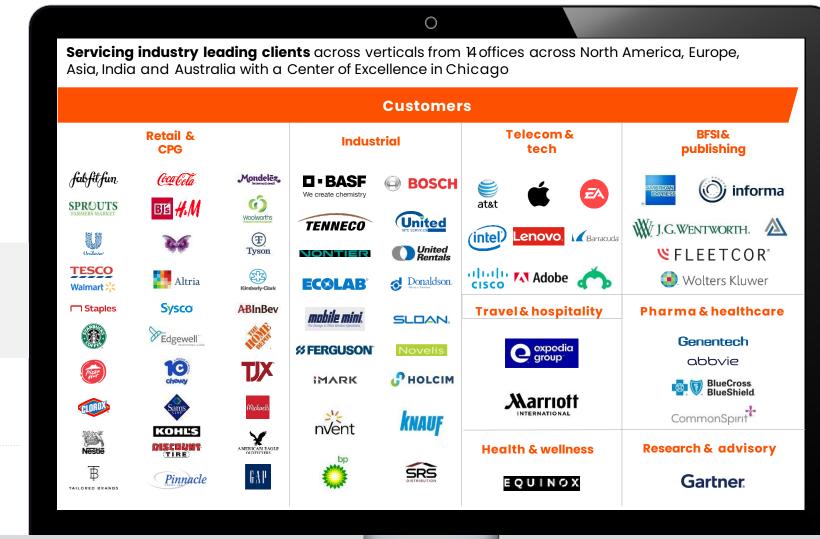
Market guide for data analytics & intelligence platforms in supply chain



Certified as Great Place to Work by GPTW India



Fastest growing US companies 6 years in a row



Tredence delivers value through full-stack capabilities & white box solutions that drive the last mile adoption of insights

Data Engineering

Machine Learning & Al Enabled Analytics





Data Cleansing & Harmonization

Technology **Platform** Modernization

Cloud Performance & Cost Optimization











Merchandising

Strategies





Customer Analytics



HR Analytics

Store labor

optimization

Associate training

management

Platform



Supply Chain & Procurement

Demand **Forecasting** & Planning

Supply Chain

Control Tower

Platform

Alerting

Out of Stock

Cost Negotiations

Price and Promotion Optimization

Assortment and

Store Location

Next Gen Product

Recommender

Optimizer

Marketing &

Personalization Engine

Personalization

Test & Learn Space Management Platform

> Marketing Mix Modeling & MTA

Data Platform

Unified Customer

& Experience

Customer Explorer Visualizations

Customer Journey Mapping

Customer Behavior Modeling

Cost Optimization & Productivity ML WORKS

White box model deployment and monitoring, to ensure complete transparency and explainability of models

TREDENCE STUDIO

Custom Application development & deployment to deliver last mile insights & impact

DATA SCIENCE R&D CENTER













Proprietary Frameworks

Edge Deployment Capabilities

Computer Vision Internet of Things

AI/ML based data quality tool that aims to deliver reliable data to your business

Data Validation

 Global address validation & correction using postal directories and 3rd party APIs

Contact/lead email verification

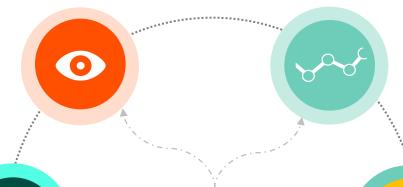
Data Cleansing

 Business rule configuration, Standardization, De-dupe using AI/ML algorithm & golden record creation

 Deployed on customer, contact, product, material, vendor master data

Data Ingestion

- Integrates seamlessly with tools/applications like Oracle ERP, Salesforce, etc.
- Leverage OCR tools to scrap data from documents to be consumed by downstream layers for Cleansing







Data Enrichment

- Customer/contact enrichment through 3rd party partnerships
- Product/material enrichment through web scraping, image processing, unstructured data analysis

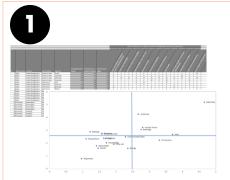
Hierarchy Management

- Customer/vendor hierarchy validation, creation and management through 3rd party partnerships
- ML algorithms for product/material hierarchy assignment at scale (including GPC/GS1 migration)

Feedback Loop

- Active Learning based feedback module allows business users to pass feedback and override the algorithm's results
- Enables a reinforcement loop to keep the machine learning models accurate with time

Tredence Differentiation: We have structured process templates, frameworks and runbooks



Data Assets Classification Framework

We have developed a framework to classify data assets into different categories based on different parameters - scope of usage, sensitivity, compliance, functional impact and type of data. Our classification framework helps to establish policies based on the parameters captured against individual entities.





Data Governance Policies for Quality and Security

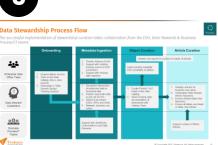
We have pre-defined data quality and security policies that can be adopted by any of our clients with minimal tweaks. Policies are written leveraging our experience implementing data governance for not just retail clients but for some of the more heavily regulated clients as well.



Data Quality Scorecards & Dashboards

At Tredence, we built a AI based Data Quality solution to master and manage hierarchy data. As part of the data quality solution, we have delivered comprehensive quality scorecards that analysts, data engineers and data domain owners can leverage to measure the quality and take appropriate actions to continually improve the quality.





Data Catalogue Operationalization

Tredence has created templates for operationalizing a data-catalog & standardizing Data stewardship across enterprise Organizations. Our framework helps us move from onboarding to meta data ingestion to object curation at double quick-time.



Job Statistics

· Batch Statistics

Standardised Operational Metadata for GCP Pipelines

Having done a number of GCP data lake implementations, we have standardised the data models to capture operational metadata in data pipelines that can be used for measuring the key operational metrics over time - volume growth, failures / errors, performance etc.

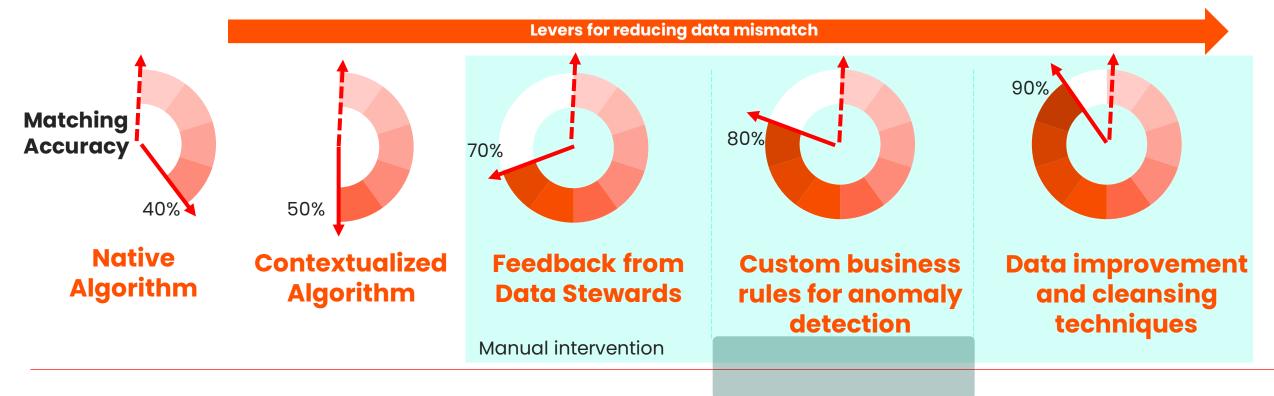




Taxonomy Definer

We have developed an accelerator that runs through the curated object-metadata and curated metadata and helps to classify tables objects and determine domains. The accelerator uses best in classification techniques & ensemble models to accurately classify the information.

Evolution of the solution for a new market



Note: Depending on the available fields and level of structured data available in the market, the final matching accuracy for the pilot may vary by +/- 5%. Although, during scaling, cross geography learning available to the algorithm will result in overall improved accuracy

Sancus team will provide documents explaining step-by-step process of onboarding a new market in detail

Success Criteria = 80% to 85% matching accuracy Subject to level of user interaction and feedback

Expected Deliverables through the engagement

End-to-end Orchestrated Pipelines

Data Quality Framework

Certified Datasets

Operationalized Catalog

Extended Logging, Monitoring and Alerting Framework

Base Data Cleansing and Consolidation Code

Market Specific Code Customization and Rules

WebApp



On-demand Consulting, **Guidance** and **Product Enhancements**

Deduped and Consolidated **Operator and Contacts Data**

Final Golden Record IDs

Updated Mapping for Other Objects

Specific Azure Customization for Sancus

Support Operating Model

Weekly/Daily Process Runs

Bug Fixes

Service Management/ **Service Desk Reports**

We follow a robust process to ensure smooth process transition and maintenance

Maintenance cost depends on the level of involvement expected from the solution support team

	Pre-transition	Transition	Governance	Cost improvement & optimization
	Rigorous planning	Seamless takeover	Uptime & support	Continuous transformation
What we do	 Discovery phase (experts guiding the scope definition process) Opportunities, risks, stakeholders, process gaps, data gaps, use case definition Migration planning 	 Crawl-walk-run process to ensure ample time for process understanding Prioritization framework to ensure critical processes take precedence 	 Detailed SLA framework to ensure streamlined processes Ticketing system for tracking of issues Infrastructure management – backup, recovery, uptime Health monitoring 	 Automation to increase efficiency Improved productivity Process transformation & continuous improvement Cost optimization & spend analysis
Key deliverables	 Detailed scope & specifications document Automation assessment Business continuity plan Risk assessment matrix Stakeholder map for communication 	 Detailed process documentation Ticketing tool Self-service portal SLA document for steady state Escalation matrix for critical situations Status updates on progress 	 Uptime & status reports RCA reports in case of issues Executive dashboards User access documentation & logs 	 Automation scripts Reusable execution scripts Performance logs
Benefits	Avoid surprises during executionInvolve all relevant people	 Confidence in process takeover Fully setup for steady stat All scenarios / process defined 	 Reliability in maintenance & monitoring 24/7 support End user management 	 Improvement in failure prediction Effort reduction User experience improvement

Sancus – Our AI/ML based data cleansing & consolidation solution has a proven track record of success

Standardized & Consolidated
Customer Master data for a leading
CPG company

- Standardized data across 40+ sources across 7 countries
- Improved the customer-channel mapping by **26%** and created various hierarchies for Pricing, Local Reporting, Global, etc.

Standardized PO receipts for a large CPG company

- Realized **200k** of receivables per year by consolidating POC receipts across partner and retailer source systems
- Reduce PO reconciliation time from 2+ weeks to 2 days

Cleansed and created a customer master for a leading automobile manufacturer

- Reduced time for master data creation by 50% over the existing solution
- Reduced Marketing campaign costs due to duplicate mails sent to the same customers
- Enriched customer address data through third party APIs

Automation of Purchase Order to Invoice Reconciliation



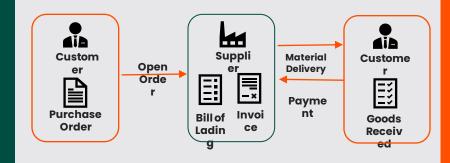
Situation

- Purchase order to invoice three-way match is transaction reconciliation process of approving payment to a supplier upon completion of an order
- The manual process of reconciliation requires to check products, quantities and costs across purchase order, bill of lading, invoices and contract/MSA
- Reconciling the documents from multiple sources in different formats for transactions takes valuable time and resources



Need

- Objective is to reduce margin leakages caused by incorrect or inefficient PO reconciliation.
- Reduce scope of human error and eliminate nonvalue added activities
- Automate the reconciliation process of POs against the invoices for payment processing





Proposed Solution

- Data Gathering & Cleansing:
 Use image processing techniques to convert PDF and JPEG format Invoices to structured CSV or text format for processing
- Data Tally:
 Use Sancus to match invoice details. Validate address anomalies to ensure correct carrier charges
- Automation of PO Reconciliation:
 Improve the efficiency and error proof the process by automating PO reconciliation to close POs

Enabled a large CPG player with Sancus' AI-ML matching & need-based customizations



The CPG Client Food Solutions is looking to enhance the data quality of their Operator and Contact data objects to enable downstream analytics and Bl.



Tredence's ML based matching engine is used to cleanse and consolidate Operator and Contact data, identifying and flagging duplicates and creating a golden record that is propagated forward



Client wanted an intelligent automated solution to tackle multiple Data Quality challenges that exists, including duplicate and inconsistent data entries. Scope – 75 markets; 12-17 objects per market (including Operator and Contacts)



SOLUTION APPROACH

Tredence's solution created immediate ROI for the client

- Design, build and deliver data pipelines for 75 markets
- Implement data quality, measure and optimize quality for 15 objects for each of the markets
- Read Operator and Contact datasets from UDL ,perform DQ check , process and harmonize the datasets for Sancus consumption
- > Implement better data profiling, quality and enrichment in the pipeline to improve adoption
- Orchestrate end to end pipelines on ADF. Optimize performance & cost. Operationalize logging across pipelines.



Sancus acts on 100% of the source data and adapts to unique scenarios within each increase in accuracy over existing engine

Results provided within **24 hours** of dataset being made available

Proven the effectiveness of Sancus' AI ML matching model for scaling up across all **75 markets** with need-based customizations



