Introduction

The supply chain ecosystem across industries had been under huge stress due to economic, global and pandemic factors. Recently, the supply chains are finally operating at full capacity, indicating recovery. However, the unpredictability of supply still affects the UK as companies report a marked uplift in safety stockpiling because of the disruptions in the Red Sea route.

Industry Challenge

The market for supply and demand sensing is in a nascent stage due to the granularity of results required and the capability to process these results in an easily comprehensible manner. Supply Sensing in particular, is in the nascent stages. A product to integrate these insights, predict and manage supply network imbalances is almost non-existent.

Currently, most manufacturers are using traditional demand and supply planning software for demand forecasting, production planning, and supply chain management. Current modelling approaches are unsuitable due to uncertainty from the geoeconomics, and geopolitical situation forcing companies to venture into AI/ML-based data-driven solutions for demand planning and supply chain management.
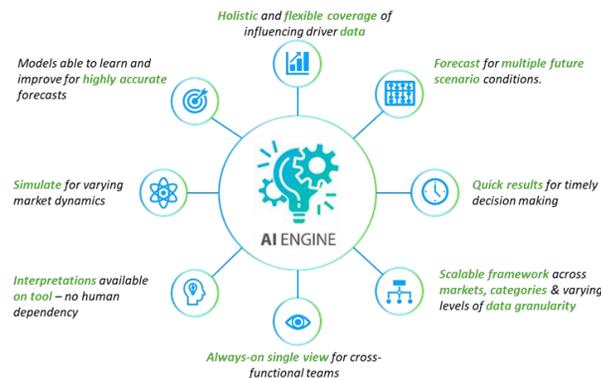
The Singular Intelligence Approach

We identify and label the uncertainties and influencing factors on demand and supply; establish their relationship with sales; quantify their impact and generate insights that business can leverage to understand and plan for unforeseen events affecting demand and supply.

Growing Uncertainty

What **drives demand**? **Which** of these **factors affect supply**?

A Real time AI based Decision Engine:
Disruptive Value Proposition

Holistic and *flexible coverage* of influencing driver *data*

Models able to learn and improve for *highly accurate* forecasts

Forecast for *multiple future scenario* conditions.

Simulate for varying market dynamics

Quick results for timely decision making

Interpretations available on tool – *no human dependency*

Scalable framework across markets, categories & *varying levels of data granularity*

AI ENGINE
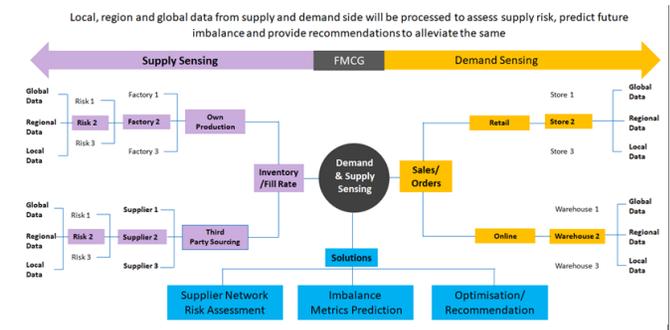
Always-on single view for cross-functional teams

Our Solution Provides:

Supply Network Analysis: Identifying the most pertinent metrics to capture current performance and future demand & supply risk.

Demand Sensing: Our proprietary methodology captures and forecasts demand at most granular levels, aiding in strategic to operational planning across all players of the supply network with increased visibility.

Supply Risk Modelling: Our framework captures risk of production shortages and cost increases. Quantified impacts of the influencing factors aid in mitigation and planning for future risks. Supply risk visibility aids retailers and manufacturers manage inventory and demand for the most value.

CatmanAI™ will empower reliable and timely decisions at scale for optimized supply network operations; maximizing value across all supply network partners

Local, region and global data from supply and demand side will be processed to assess supply risk, predict future imbalance and provide recommendations to alleviate the same

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Benefits and insights across the supply chain

This solution can help you, if you require:

- **Affordable AI/ML Implementation:** Utilizing cloud and open-source software.
- **Tailored SaaS Solutions:** Designed for large & small businesses with easy onboarding, low unit costs, & scalable options.
- **Low Code Workflows:** Enables the creation of reusable templates.
- **Seamless Integration:** Compatible with ERP and SCM solutions like Oracle and Microsoft.
- **User-Friendly Design:** To engage diverse personas from the Supply Chain, Brand & Category Management to Finance departments.

About Us

Mission

Singular Intelligence has a focus on building software solutions driven by Artificial Intelligence & Data that enable efficiencies at scale and sustainable growth in Industries that are core to the fundamental needs of human society

Vision

Our vision is to empower Reliable, Timely Decisions at scale, for commercial and social benefits enabling:

1. Augmented, automated decisions considering all causal factors
2. Dynamic business model innovation eliminating inefficiency at scale
3. Precision, hyper-local- segmented alignment of products & consumers

Provided Solutions for

"Efficiency, Resilience, Sustainability"

LogisticsAI – Efficienct Routing, at scale

To further capture the impact on supply risk, we have developed LogisticsAI – a multicriteria, multimodal logistics route optimiser, built to automate interfaceable and scalable optimization. It can:

- Optimise routes considering multiple user-specific customizable criteria
- Consider multiple modes of transport used in a route
- Optimise routes for thousands of products in a matter of seconds
- Provide route comparison for various criteria importance to aid informed decisions
- Assess the impact of delays in the route on the shipment delivery

LogisticsAI empowers one to optimise, compare, assess and improve decisions to operationally improve profitability and sustainability at scale.