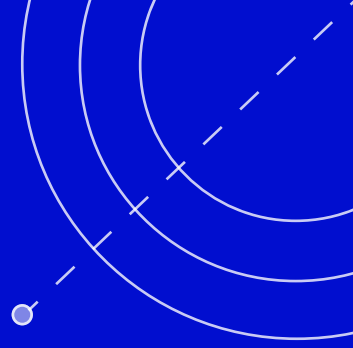


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FUTURE WITH AI

Supply Chain Management Made Easy

Striving Towards Efficiency

MAY 2025



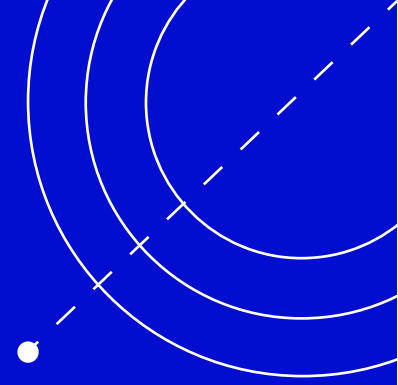


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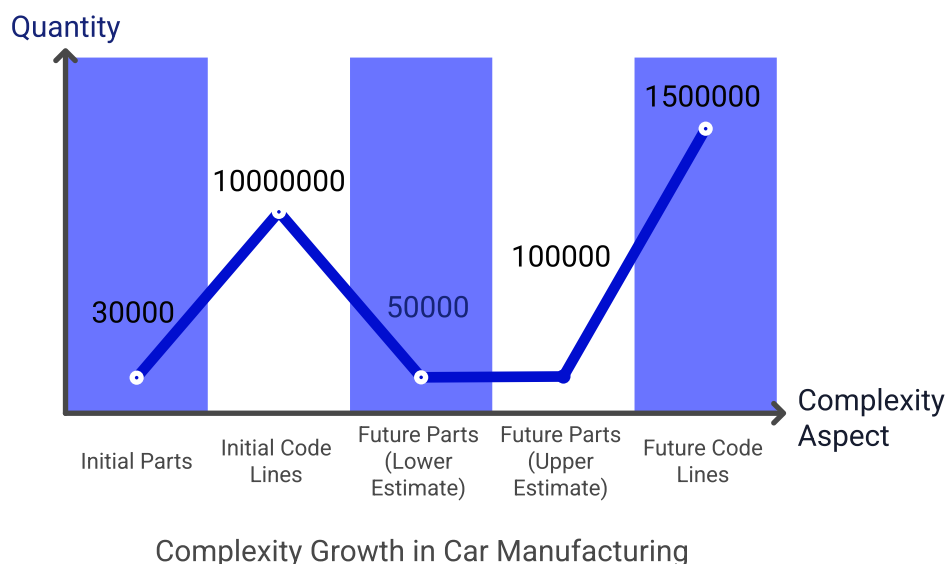
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Introduction

Supply Chains are not a new concept. Trade has existed for centuries, and so has the need for managing how and where items are traded. With the advent of globalization, and increased complexity in items, it has never been more important for us to take a long hard look at how we manage our supply chains. Consider the humble car. The act of sitting in a one to travel, or to drive it, feels relatively commonplace. Manufacturing it, however, is no small task.



According to an [article from 2010](#), the average car contains around 30,000 different parts, and over 10 million lines of code. With time, this complexity has only gone up, with estimates suggesting between 50,000 and 100,000 parts needed per car, and several more million lines of code to make them smarter.



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It is impossible for any one company to manufacture all these components, which creates a reliance on multiple companies globally coming together to help produce them.

To understand how much a single component can affect supply chains and consequently have tremendous negative business impacts, we only need to look as far back as 2021 – during the pandemic.

[Toyota and Volkswagen were unable to roll out cars](#) because they did not have one single component – Silicon based chips needed for the code to run in smart cars. Toyota ended up slashing global production by 40%. Ford was unable to have any production for their F150 Trucks for over a week, and saw extreme uncertainty as to when they would restart. General Motors and Nissan were also forced to halt production for weeks.



Irrespective of whether you are in sales, supply chain, manufacturing, or some other business unit, one thing must be clear to you by now - the resilience and efficiency of your organisation's supply chains have a massive impact on the health of your business.

Problem Statement

"Despite years of study by mathematicians, supply chain experts, economists, and statisticians among many others, practical considerations of supply chains continue to make them brittle"

There is still often a lot of manual processing, data split between digital records, printed documents, and unstructured data. All of this, comes at the cost of not just lack of visibility into the overall health of the system, it also makes it impossible to implement any changes to the system without first running into avoidable roadblocks.

[According to a survey by McKinsey in 2024](#), more than 2/3rds of all surveyed organisations were ramping up digitisation of their supply chains, with a particular emphasis on planning and scheduling.

74%

Over 74% of them are exploring utilising AI in some way, including Demand planning, inventory optimisation, and end to end supply chain visibility. The key advantages stated are the ability to automate analysis of multiple structured and unstructured data sources from multiple providers, improving efficiency and resilience.

In this whitepaper, we will help you understand how your organisation can get started with using AI in your pipelines.

Demand Planning & Forecasting

Until now, a majority of the demand planning and forecasting was reliant on using traditional statistical models based on incomplete data that did not incorporate unstructured information.

With the advent of Agentic AI systems, it is now possible to automate the pipeline end to end – including extraction of data from different sources, including PDFs, data warehouses, etc. And automatically homogenising them to find the right forecast for you.

Case Study: Danone SA

Danone is a major provider of dairy based products. Their SKUs tend to have a very short shelf life, so demand planning and forecasting is a crucial part of their optimisation. [With AI based forecasting, Danone achieved](#)



74%

Reduction in
forecast error



20%

Reduction in
lost sales



10

Point ROI
improvement in
promotions

[Danone continues to invest heavily in AI](#), with a recent deal with Microsoft to make their supply chains more resilient

Supply Chain Visibility & Tracking

As highlighted earlier, the ability to track every moving part of your supply chain helps you find trends and information you might have otherwise missed out on.

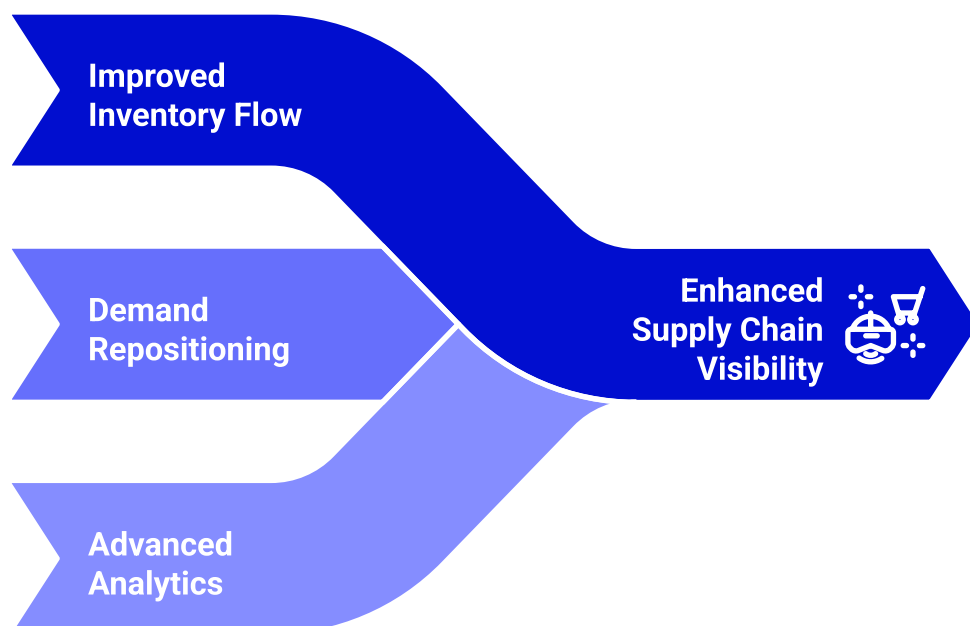
However, having this visibility in itself is a major challenge. Even with all data available at your fingertips, the question of how and when it is used remains.

Case Study: Walmart

Walmart is a global brick-and-mortar and online retailer. With over 4700 stores present globally, apart from fulfillment centers and distribution centers, having visibility over each moving part is crucial.

AI, Walmart has been able to get [visibility over its entire supply chain](#).

1. Improved quantity and timing of inventory flow
2. Demand repositioning based on AI analysis
3. Incorporating weather data and advanced analytics for better predictions



Automated Document Processing With AI

One of the biggest challenges with supply chains is the sheer volume of documents. Bills of lading, invoices, requests for proposals. Reading them, processing them, and storing their data in digital systems is a massive labour and time cost, and often error prone.

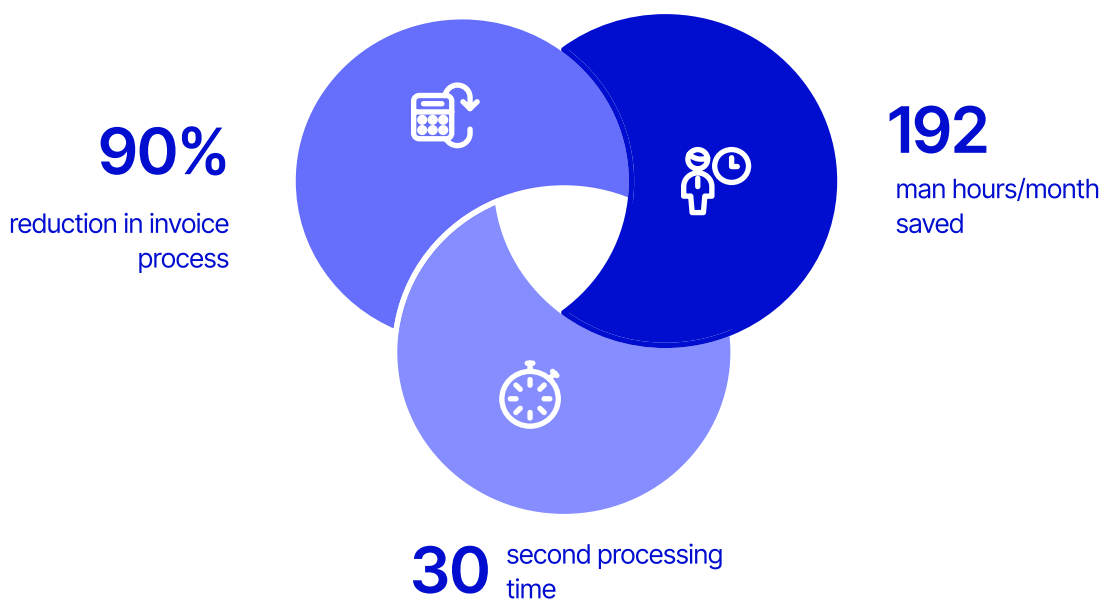
However, with AI systems, you can now automate the whole process end to end. All documents can be read, data extracted, and uploaded to SCM software without any manual intervention, saving several thousand man hours annually.

Case Study: Asian Paints

Asian Paints is a Fortune 500 company, and has been India's largest and Asia's third largest supplier of paints with manufacturing facilities in 26 global locations.

With [AI automated invoice processing for 22,000+ suppliers and vendors](#), Asian Paints saw

1. 192 man hours/month saved
2. 30 second document processing time
3. 90% reduction in invoice processing



Risk Assessment And Impact Prediction

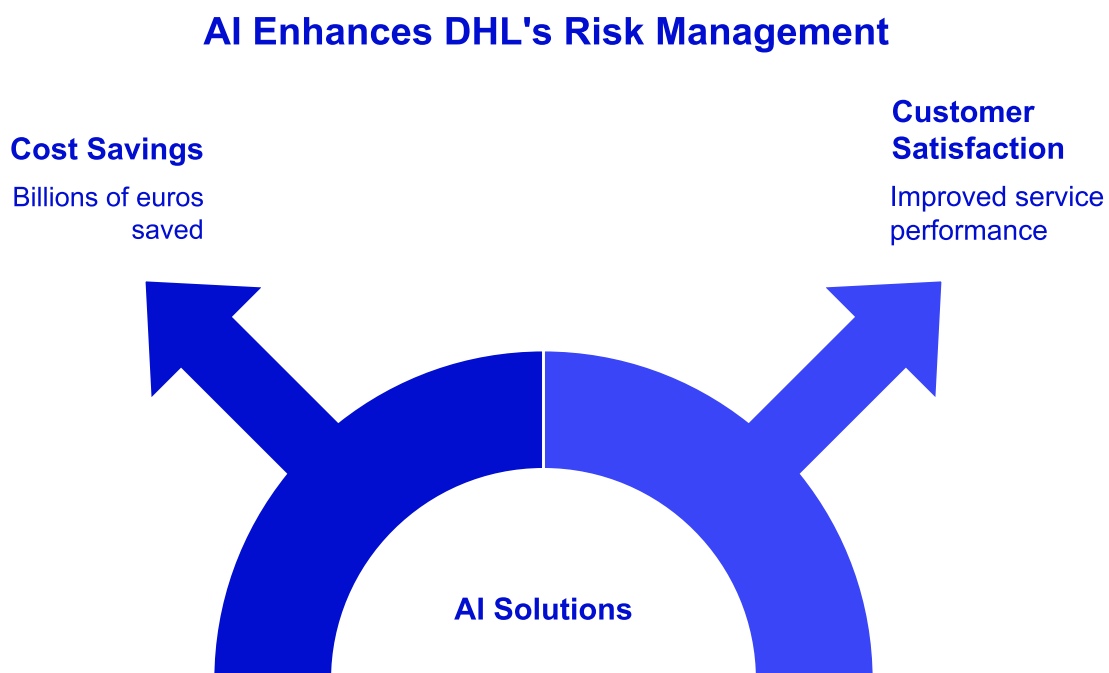
By analyzing a wide variety of data points and documents, AI can significantly reduce the impact it could have on your supply chain, and do it faster than humans with higher accuracy.

As an example, the 2021 Suez Canal blockage disrupted 12% of all global trade, costing businesses worldwide \$400 million. One simple way to avoid this is to have better prediction mechanisms with AI

Case Study: DHL

DHL is a global leader in logistics. According to their earnings report for second quarter of 2022, the company saw a 4.8 billion EUR loss in revenue owing to not having complete visibility over supply chain disruptions, and lack of derisking it.

However, with [AI based solutions for risk management](#), DHL was able to anticipate potential disruptions, and make plans to avoid them, saving them several billion euros annually, and improved customer satisfaction.



AI For Supply Chain Sustainability & Environmental Tracking

Sustainability is not simply a buzzword, for most companies, it is a mission. There are also regulatory and compliance related reasons which makes both visibility and optimisation of supply chains an important task towards a greener earth.

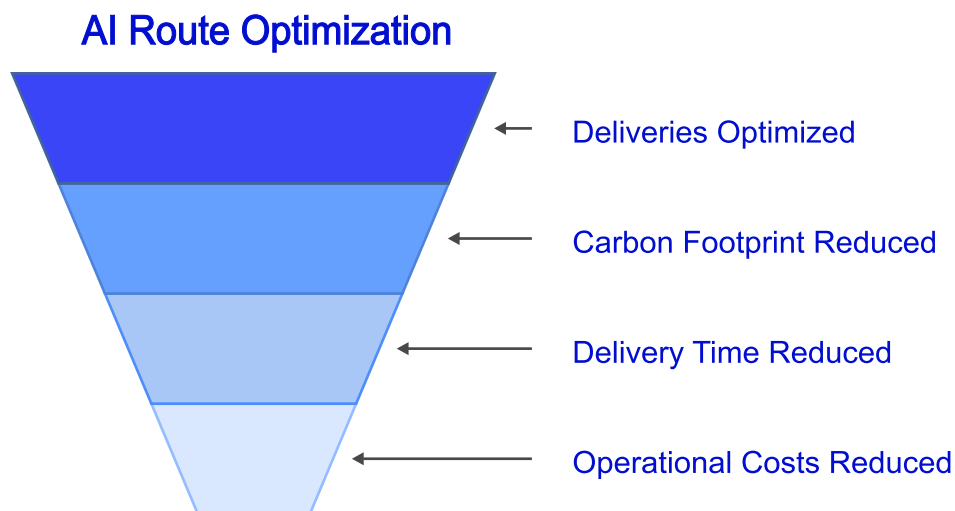
Using AI, you can transform your logistics pipeline, ensuring routes are planned efficiently to reduce both turnaround time and emissions, keep track of regulatory documents for ensuring compliance, and give back to the planet.

Case Study: Carryt

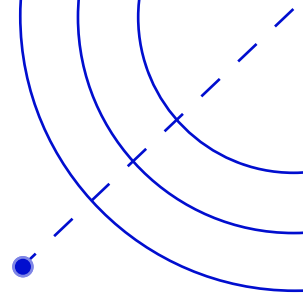
Carryt is a major logistics provider in LATAM. Cities in LATAM such as Bogota, Lima, and Mexico City suffer from severe traffic congestion and pollution, causing inefficient last mile delivery, both in terms of turnaround time and emissions.

To solve these issues, [Carryt implemented an AI powered route optimiser](#). With this, they saw

1. Over 1 million deliveries optimised per month
2. Reduced carbon footprint
3. Significant reduction in delivery time and operational costs



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From Parts To Pavement Supply Chains Power Every Mile

Custom, Secure And Scalable Digital Solutions For Your Business

Perimattic builds digital solutions that change how your business works from automation to cybersecurity and everything in between.

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