



Data Orchestration in Supply chain

Foreword



Over the last two years, supply chain management has embodied Murphy's Law, '**anything that can go wrong, will go wrong.**' A multitude of factors, including the pandemic, heightened consumer demand, trade conflicts, port backlogs, and extreme weather have **exposed the fragility of global supply networks.**

Logistics has lost its appeal as an investment opportunity, with the sector often perceived as **less glamorous** compared to other startup categories because it operates behind the scenes and isn't customer-facing. Yet, the staggering annual **waste of 1.3 to 1.4 billion tons of food** due to these **supply chain inefficiencies** underscores the significant improvements that are necessary to turn these **challenges into opportunities.**

End-to-end supply chain orchestration offers transparent insights into the supply chain, enabling innovations in route optimization, last-mile delivery, return processes, and forecasting for a more **sustainable and efficient logistics** sector.

We believe in an integrated tracking system that ensures complete visibility throughout the supply chain. We see significant potential in the **distribution approach utilizing micro fulfillment centers** close to consumers to enhance efficiency in last-mile delivery, reduce emissions and **establish a transparent path for products** from the manufacturing point to the customer's doorstep.

Dastore Team

Since the inception of Daphni, we have committed to funding solutions that are transforming conventional retail frameworks and fostering the adoption of circular economy principles. With strategic stakes in ventures such as **Stockly, Underdog, Ida** and **Faume**, this research is **intended to further our commitment across the full breadth of the supply chain.**

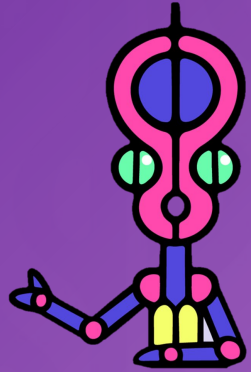
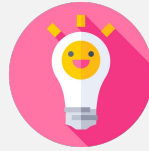


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Data orchestration



What is it?

Supply chain orchestration is the **coordination** of activities and resources **across production, inventory, transportation, and logistics** to ensure timely and cost-effective delivery to customers. This holistic strategy manages the entire supply chain, **from raw material procurement to finished goods delivery**, with the aim to integrate all elements seamlessly. By doing so, it increases visibility, minimizes costs, enhances customer service, and **improves the overall efficiency and performance of the supply chain.**



Challenges being solved

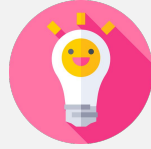
- **Harmonizing diverse systems and software** such as ERP and CRM, despite the financial and temporal investments required.
- Achieving an integrated, clear view of the supply chain to **identify and address bottlenecks**, in spite of prevalent **data silos**.
- Ensuring the accuracy and reliability of data across the supply chain, overcoming challenges of **inconsistencies and incomplete information**.
- Fostering cooperation among all partners within the supply chain to enable effective planning and execution, **necessitating data and forecast sharing**.
- Merging various supply chain components into a cohesive system demands balancing the intricate and **costly integration process** with the **expertise necessary** to streamline operations and achieve synchronization.



Transportation Management System

1. Real Time tracking & ETA Forecast
2. Freight emission reduction
3. Fleet tour optimization

Real Time tracking / ETA Forecast



What is it?

Real-time tracking and ETA forecasting are essential technologies in modern logistics, enabling businesses to pinpoint the exact location of their shipments and accurately predict their arrival times. Through the use of advanced algorithms and GPS technology, these systems offer enhanced precision in scheduling, resource management, and improve the transparency of the supply chain process. Custom alerts and detailed analytics further refine these operations, providing a competitive advantage by streamlining the allocation of labor and inventory.



Use case

Pharmaceuticals:

- Regulatory standards mandate the tracking and surveillance of all pharmaceutical products.
- Some product are sensitive to temperature, humidity, shock, tilt or other events



Challenges being solved

- Checkpoint Challenges: Each logistical checkpoint adds complexity, potentially disrupting estimated arrival times due to unforeseen delays.
- Visibility Issues: In areas with insufficient tracking infrastructure, gaps in real-time monitoring can lead to significant disruptions in supply chain fluidity.
- Data Accuracy: Reliable ETA forecasting hinges on high-quality data; inconsistencies or data gaps can notably skew arrival time predictions.

Startups

LOGIXBOARD

Logixboard delivers a digital platform integrating with major logistics systems that enables forwarders and customs brokers to offer real-time supply chain tracking and visibility, improving their customer experience and operational insight.

wakeo

Wakeo's is a real-time visibility multimodal platform for seamless tracking for all transport modes. Their intelligent analytics, predictive ETAs, and automation capabilities aim to reduce up to 50% in detention costs and a 30% gain in productivity.

VIZION

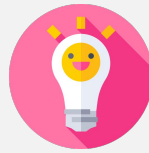
Vizion offers container tracking API services globally integrating data (EDI, AIS, and port/ terminal connections), ensuring instant-on capabilities with regular updates. Real-time event response is enabled through webhooks thus increasing agility.

Hive Connected monitoring

Cloud based platform offering connected Monitoring as a Service (cMaaS) to provides risk management, data analytics, and real-time monitoring services that enable companies to react quickly to anomalies in their supply chain.

Freight emission reduction:

CO₂



What is it?

The process of **transportation orchestration** applies analytical insights for optimizing **route planning and load consolidation**, thus diminishing the environmental footprint and edging closer to carbon neutrality. It also encourages **shifting to less carbon-intensive transport options**, like rail or waterways, for longer-haul journeys, thereby reducing reliance on higher-emission truck and air freight. This targeted use of data-driven decision-making and alternative modal shifts is pivotal in orchestrating a greener and more sustainable supply chain.



Potential benefits of data orchestration

- Adoption of a **universal freight data exchange protocol**, companies is projected to potentially **slash CO₂ emissions by 22%** within global supply chains by 2050.



Challenges being solved

- Green Tech Barriers: **Scarce and expensive sustainable technologies** hamper adoption in transportation.
- Costly Eco Transition: Switching to green practices like electric vehicles or **biofuels requires significant investment**.
- Scope 3 Hurdles: Managing emissions from external sources, such as fuel production, is complex and often **beyond direct control**.

Startups



Shipzero, a data platform, calculates, analyzes, and optimizes logistics carbon footprints. It offers curated insights at various levels, allowing companies to monitor and manage supply chain emissions in line with climate goals.



Makersite, an AI-driven platform, empowers companies to manage product sustainability, and cost. Utilizing AI and graph technology, it generates real-time product twins for collaborative impact measurement, identifying mitigation strategies and sourcing opportunities.

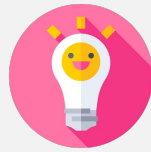


A hardware-free ship performance platform offering real-time insights on fuel efficiency and emission reduction, using up to 480 daily datapoints. Optimizing vessel performance enabling real-time data sharing between stakeholders for accurate operational information.



A cloud-based logistics platform providing data-driven solutions, particularly cross-docking software for hubs. Prioritizing sustainability, to enhance efficiency, reduce logistics costs and slash transport-related greenhouse gas emissions by 50%.

Fleet tour and capacity optimization:



What is it?

Fleet tour or capacity optimization is a strategic process utilizing data orchestration to enhance the scheduling, routing, and overall management of commercial fleets. By **harnessing real-time data, automatic dispatching, route optimization** through **fleet capacity sharing, fleet capacity trading, predictive analytics**, fleet operators and forwarders can minimize planning time and costs while maximizing efficiency and customer satisfaction. Advanced algorithms consider variables such as cargo specifics, traffic conditions, weather, and even energy source variability to ensure optimal fleet deployment.



Use case

Mid-size forwarder:

- *Working with multiple global agents requires lengthy back and forth, multiple platform integrations and double entries*
- *Having one virtual file allows full visibility, productivity and collaboration*



Challenges being solved

- **Fluctuating market and customer needs** with **driver shortages**, seasonal **demand spikes**, and supplier demands that lead to limited capacity, resulting in **elevated freight costs** and extended delivery times.
- Securing reliable carrier capacity by finding **dependable carrier services** to avoid delays, surging costs and **maximise fill rates** for each tour.
- Identifying the most **efficient and economical routes** and modes of transport to counter poor road conditions, varied taxation, international trade barriers.

Startups



Forto, a digital logistics company, employs platform technologies to streamline the entire process from offer to tracking. Their offerings enhance visibility, insight, and control, empowering customers with smarter decision-making insights.



A freight forwarder emphasizing simplicity, reliability, and transparency through a platform allowing real-time transportation management, centralized communication, and commitment to reducing the carbon impact of freight.



A next-generation approach to route optimization that provides tailor-made solutions to boost delivery management. Their algorithms are tuned for field services, and they offer multi-stop route planning and dynamic route optimization.



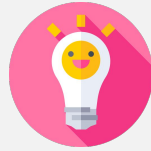
A logistics business network that offers a platform for managing transportation in real-time and centralizing communications with suppliers and subsidiaries, thus providing shared capacity optimization through collaborative network

A diagram illustrating a Warehouse Management System (WMS) overlaid on a photograph of a warehouse aisle. The diagram consists of several blue circular icons connected by thin white lines, forming a network. The icons represent various warehouse operations: a person (operator), a truck (transportation), a warehouse building (facility), a location pin (geography), a forklift (material handling), a hand holding a tablet (inventory management), a search icon (query), and a stack of boxes (inventory).

Warehouse Management System

1. Real time visibility & productivity of operations
2. Inventory tracking & optimization

Real time visibility & productivity of operations



What is it?

Cutting-edge cloud-based WMS transforms supply chain visibility **with real-time insights** into **fulfillment, labor productivity, and employee safety**. These advanced solutions excel in enhancing **reporting**, enabling managers to monitor orders and analyze real-time **performance metrics**. Leveraging WMS software development, companies improve **order accuracy, eliminate manual errors, and streamline fulfillment**, boosting operational efficiency. Modern WMS through **computer vision, AI modeling** and **camera monitoring** automates and streamlines operations, driving efficiency, reducing costs, and fostering improved customer satisfaction, business growth, agility, and enhanced productivity through automation, ensuring a competitive edge in the evolving fulfillment landscape.



Use case

Fill rate & night distribution

- *Constantly monitoring each load at every distribution point*
- *Optimizing vehicle loads to maximize efficiency*
- *Ensure client satisfaction with overnight deliveries.*



Challenges being solved

- Measuring and **optimizing labor productivity** in receiving, picking, and shipping.
- Keeping warehouse staff informed about the **progress of daily tasks**.
- Analyzing and **optimizing the storage** of slow-moving and high-turnover inventory.
- Making timely and **informed decisions** for warehouse and **shipping operations**

Startups



An AI-driven platform using computer vision and machine learning, to track objects and workers, enhancing safety and productivity in warehouses. It provides intelligent reporting and unbiased guidance by collecting onsite camera data to optimize workforce performance.



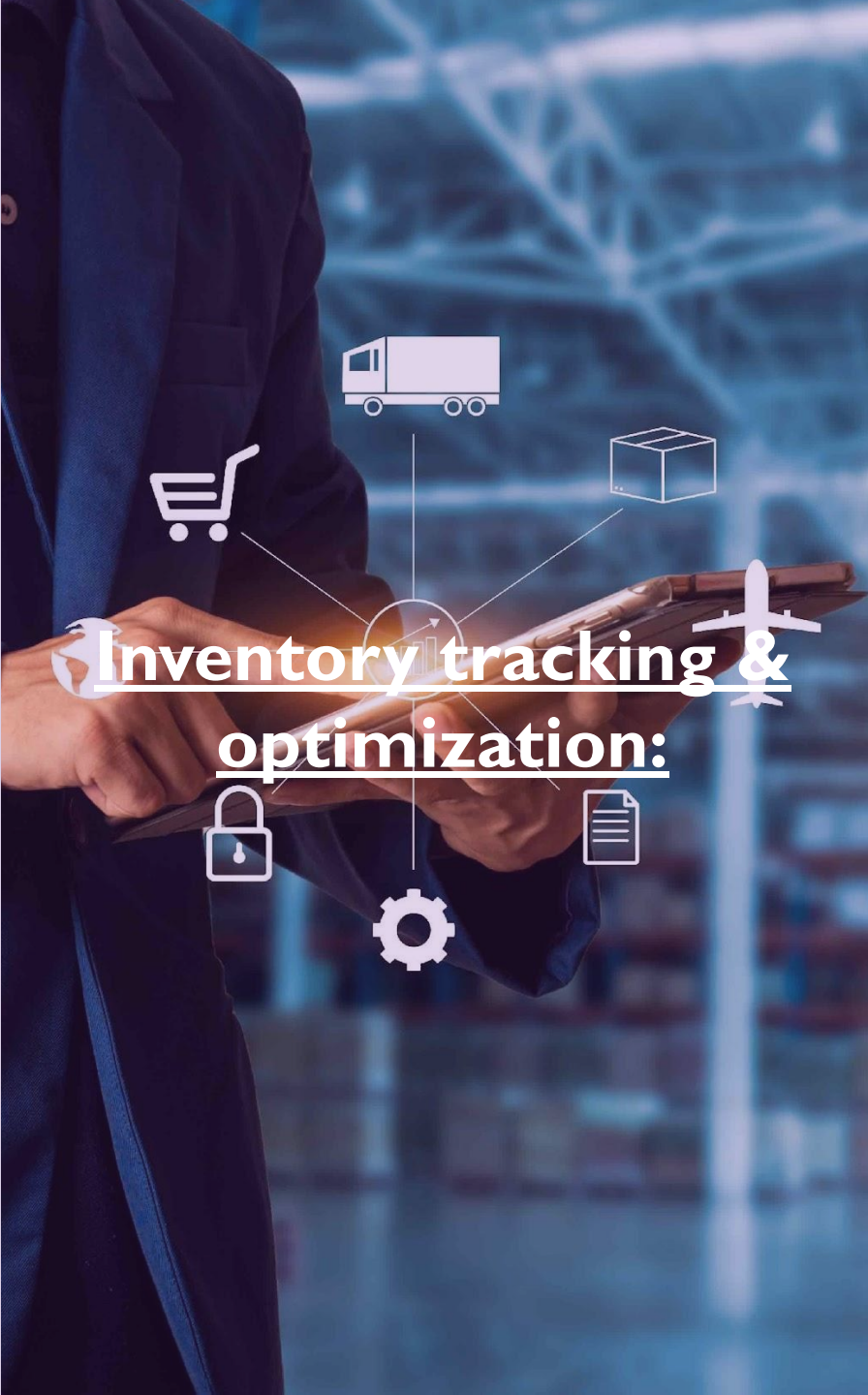
An accuracy platform implemented in warehouses, ensuring accurate and on-time deliveries for any shipping method. It offers real-time auditing, parcel scanning and can track shipments of all types, including cases, pallets, and truckloads.



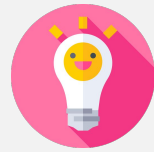
An AI platform utilising existing security cameras to provide logistics operations with real-time insights, actionable recommendations, and alerts on safety incidents, eliminating the need for new hardware and infrastructure costs.



A cloud-based solution IMP revolutionizing warehouse operations by ensuring control of personnel, machinery, and industrial vehicles into a single system, identifying bottlenecks, and providing end-to-end visibility within warehouses.



Inventory tracking & optimization:



What is it?

Inventory tracking and optimization solutions **leverage artificial intelligence, computer vision and machine learning**, to automate and enhance the **accuracy and efficiency of stocktaking operations**. Through the combination of these technologies collecting high-quality data, these platforms **can analyze and predict stock levels, detect anomalies**, and integrate with existing business data **for real-time visibility**. Businesses can achieve substantial cost savings, optimize space usage, and improve demand and supply planning through more precise forecasting, ultimately leading to improved warehouse management and higher profitability.



Use case

Stocktaking & cold storage

- *Inventory auditing is a manually intensive, expensive task*
- *In cold storage environments, where higher labor costs and regulatory work limitations impact in-facility tasks.*



Challenges being solved

- **Greater inventory visibility:** Streamline your supply chain by tracking stock levels, locations, and optimal reorder times.
- **Meeting customer demand:** Prevent stockouts, increase sales, and provide excellent service through precise inventory management.
- **Understanding profitability:** Gain insights into production costs and overall profitability by recording comprehensive inventory data.
- **Accurate financial reporting:** Ensure precise accounting by relying on inventory management systems to monitor your business's true value and profitability.

Startups



A platform that integrates with multiple warehouse management systems ensuring real-time inventory visibility and decision-making. Their solution facilitates coordination with logistics partners and automates operations, allowing efficient management of outsourced logistics.



Gather.ai offers drone-powered inventory monitoring solutions for warehouses, providing real-time visibility, reducing inventory costs, and enhancing productivity leading to significant revenue boosts and efficiency improvement.



An fully integrated end-to-end solution for automated inventory counting, including autonomous drones and inventory management software utilizing computer vision software to fly and collect inventory information on every pallet.



Fiddle.io streamlines inventory management for businesses with real-time tracking, simplified supplier integration, and hassle-free list imports, all aimed at improving accuracy and reducing production errors.



Last mile delivery Execution

1. [Micro-fulfillment and pick up points](#)
2. [Collaboration delivery](#)
3. [Last mile optimization](#)

Micro-fulfillment and pick up points



What is it?

Micro-fulfillment centers (MFCs) revolutionize e-commerce by situating highly automated, **tech-driven facilities** in urban centers, transforming retail spaces into **efficient distribution points** that cater to immediate consumer demands. These compact centers leverage state-of-the-art automation **to process orders rapidly**, are **integrated into existing urban infrastructures**, and **drastically cut delivery times**, embodying a sustainable model that aligns with the convenience expected in modern shopping. By **repurposing existing retail spaces** and underutilized urban locations, it presents a **sustainable and scalable solution** that addresses the growing consumer demand for immediate gratification in e-commerce.



Use case

Digitally native brands:

- *Need a strategic infrastructure close to consumers for reduced transit time and costs.*
- *Pressure for a delivery marketplace aggregating efficient carrier options, thus cost savings.*



Challenges being solved

- Enable a **decentralized inventory system**, allowing e-commerce stores to store high-demand products closer to customers for faster fulfillment.
- **Easier to manage returns**, since the warehouse that ships is right next to the customer.
- Automation within MFCs streamlines 'click and collect' services like curbside pickup and in-store collection, making them **quicker and less labor-intensive**.

Startups



A logistics platform for retailers that optimizes inventory placement by transforming underused retail spaces into sustainable logistics hubs, streamlining the supply chain, and reducing environmental impact.



Innovative robotic e-grocery fulfillment system to enhance order picking efficiency and streamline operations. Their Alphabet system employs autonomous carts in fulfillment centers to expedite the retrieval and handling of items, improving operational efficiency.*



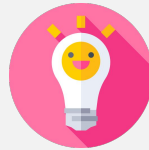
Micro-fulfillment solutions that enable efficient grocery order fulfillment, through automation allowing labor savings. Their system integrates with retailers' existing spaces, optimizing inventory placement and reducing both emissions and costs.



Fabric allows retailers to provide profitable same-day delivery services through a network of micro-fulfillment centers also allowing on demand online grocery. Using AI warehouse systems coupled with software driven robotics.

*Acquired by Walmart

Collaborative Delivery:



What is it?

Collaborative last-mile delivery **employs private individuals for parcel delivery and storage**, offering an alternative to traditional courier services. This **method draws from the sharing economy**, similar to carpooling. It uses people's regular journeys and spare capacity in their homes or cars to transport items. This efficient, adaptable, and green approach **maximizes current routes, cuts the need for extra delivery trucks**, and helps reduce carbon emissions. Retailers and e-tailers use this model to handle peak times efficiently, and consumers enjoy the benefits of community-based delivery, which often comes at a lower cost than traditional methods. This model has gained traction due to its **ability to address the surge in online shopping** and the subsequent delivery demand, while also **managing the environmental impact of transport**.



Use case

Small transporters:

- *Eliminate delivery mishaps.*
- *Enhance delivery route efficiency.*
- *Lower your delivery carbon emissions.*



Challenges being solved

- Collaborative delivery networks **reduce transportation costs** by optimizing same-day and last-mile deliveries using micro-entrepreneurs.
- They **decrease carbon emissions** and potentially ease urban traffic by efficiently using space and **reducing the number of delivery vehicles**.
- The networks **enhance customer service** with **direct communication**, improving delivery visibility and supporting eco-friendly practices.

Startups



A community-based package delivery service where neighbors can collect parcels for each other, earning a fee for this "Keeper" service. This system aims to alleviate the difficulties of package delivery, enhancing convenience for recipients.



A platform turning neighbors into local pick-up points for e-commerce parcels, enabling convenient package collection. With a network of "Welcoeurs" who assist each other by accepting deliveries for neighbors when they are not available.



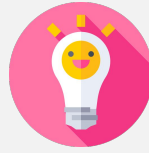
Crowdsourcing service that connects stores and shoppers to facilitate home deliveries by individuals on their regular routes. This approach seeks to streamline transportation, lower delivery emissions, and provide an economical delivery option for users.



Peer-to-peer delivery platform that pairs package senders with drivers on the same route for efficient, eco-friendly shipping. Prioritizes user privacy and data security, ensuring a safe and reliable exchange between senders and drivers.

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Last mile optimization:



What is it?

The last mile optimization model and its tools are designed to address the complexities and **high costs associated with the final step of the delivery process**. These tools leverage advanced algorithms, real-time traffic data, predictive analytics, and innovative technologies like geofencing, AI, and blockchain to map out the most **efficient and cost-effective delivery routes**. The goal is to **ensure timely deliveries, enhance customer satisfaction**, minimize environmental impact, and maintain a balance between service quality and operational costs. These solutions are vital in meeting modern consumer demands for **speed and reliability** while tackling challenges such as traffic congestion, delivery window adherence, and the **sustainability of logistics operations**.



Use case

Medical deliveries:

- *Transport specimens, and equipment nationwide*
- *Plan multi-stop routes with professional assistance.*
- *Real-time tracking with HIPAA compliance.*



Challenges being solved

- Advanced route planning tools can **streamline delivery processes**, making them **faster and more reliable**.
- Efficient last mile deliveries lead to **better customer experiences**, fostering **brand loyalty and repeat business**.
- Optimized routes lead to **less fuel consumption** and **lower carbon emissions**, contributing to sustainability efforts.

Startups



A software platform streamlining last-mile deliveries with tools for route planning, automated dispatch, and live tracking. Their service boosts delivery efficiency, cuts costs, and elevates customer satisfaction for businesses.



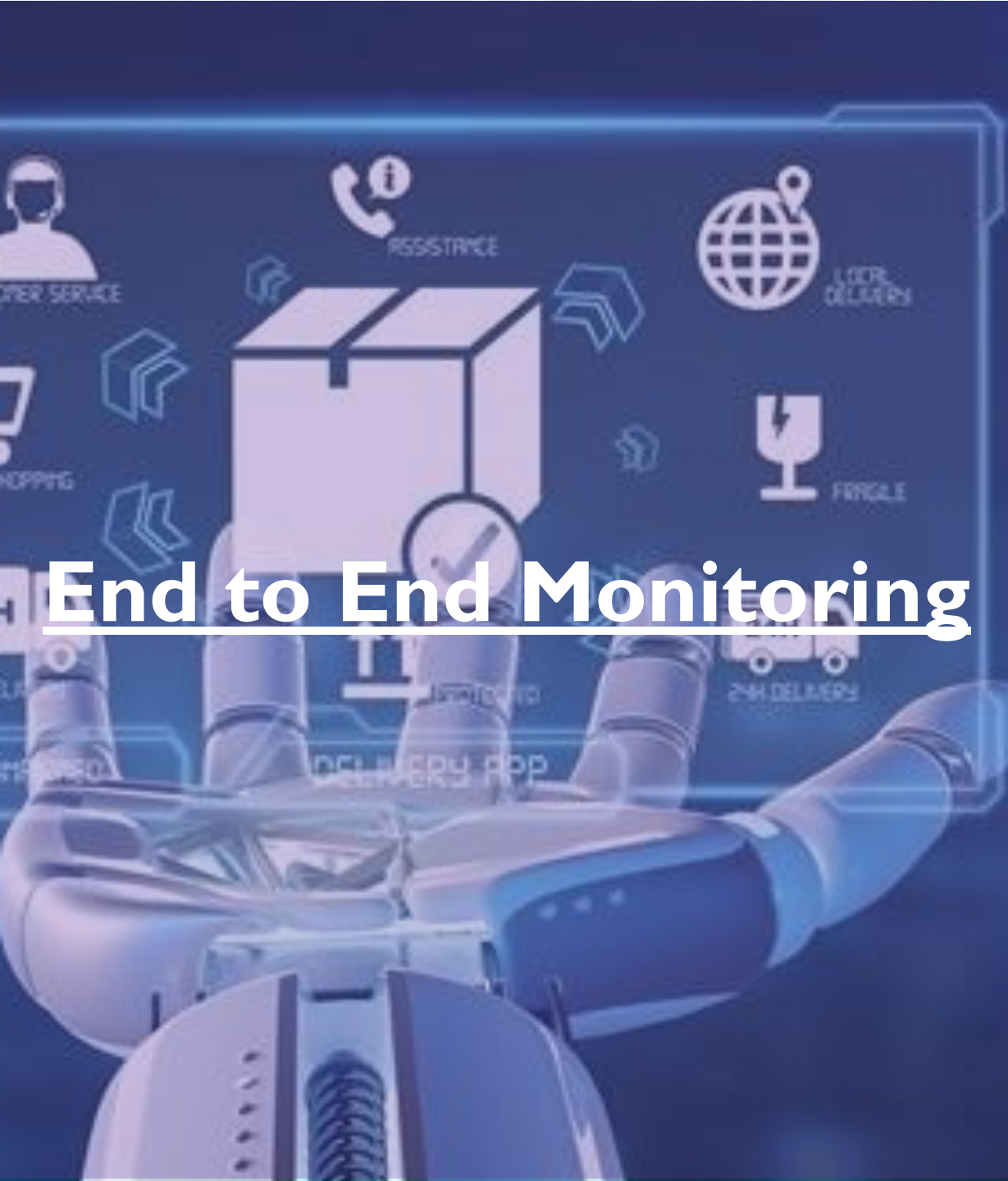
On-demand courier services, leveraging their AI technology for efficient same-day deliveries and order fulfillment for businesses. Their platform features collection, e-commerce integration, and optimized routing to save businesses time and money.



Last-mile delivery services powered by the latest technology through an end-to-end logistics infrastructure allowing quick turnaround options and a network of crowdsourced drivers, ensuring cost-effective shipping and easy returns, even in peak seasons.



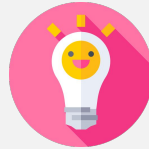
A logistics platform tailored for the construction industry, designed to improve sales, reduce risks, and elevate customer experiences with services like dedicated drivers and real-time support through last-mile delivery app connecting all parties.



End to End Monitoring

1. Fulfillment and Shipping
2. Coordination and visibility

Fulfillment and Shipping:



What is it?

Next-generation **end-to-end fulfillment and shipping solutions** in the supply chain employ innovative technologies to streamline product delivery. Embracing the digital transformation of supply chain operations, these solutions facilitate **collaborative platforms** that offer **complete visibility and enhanced flexibility**. They integrate **automated fulfillment centers** and sophisticated logistics planning, utilizing **predictive analytics** and the **Internet of Things (IoT)** to monitor and **forecast inventory needs**. This interconnected approach ensures efficient, transparent, and responsive delivery systems that can rapidly adapt to changing demands, optimizing the customer experience from procurement to product arrival.



Use case

Omnichannel brands:

- Enhance B2B order management and cut shipping expenses
- Offer multiple pickup options
- Offer return options for offline & online clients
- Shipping reports and analytics to evaluate performance



Challenges being solved

- Avoiding overstocking or understocking due to difficulties in tracking inventory levels.
- Enable lower operational costs with better management of expenses from manufacturing to shipping
- Avoid inventory and order accuracy rates with effective management systems, lowering financial discrepancies and fulfillment mistakes.
- Enhance communication and resolution processes to ensure customer service and brand loyalty.

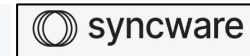
Startups



A OmniFlow Visibility Suite enabling omnichannel brands to gain real-time visibility into their inventory, orders, and fulfillment activities, helping them optimize inventory planning, streamline order management, and enhance network optimization for efficient fulfillment across various sales channels.



Comprehensive shipping software solution offering tools to simplify and automate shipping processes, track orders, and manage returns. Features like label creation, shipment tracking, and analytics allow visibility and collaboration end to end.



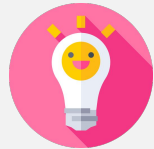
A no-code, order, and inventory automation software to help businesses streamline their multi-channel merchant operations through sync of transactions, shipments, invoices, products, and inventory, thus eliminating manual order processing and giving E2E visibility.



A cloud-based platform designed to streamline warehousing and inventory management, synchronizing inventory and order fulfillment with shipping visibility, and benchmarking workforce efficiency across sales channels to lower operational costs.



Coordination & Visibility:



What is it?

End to End Visibility platforms are specialized software systems that enable **comprehensive oversight and collaboration** within the supply chain. They connect businesses with suppliers, internal departments, and external partners, allowing for a **synchronized** and efficient approach to meet consumer demand and guarantee timely deliveries. These platforms offer real-time data and collaborative processes that help in pinpointing and addressing supply chain issues. They **facilitate clear communication and process alignment across multiple supplier tiers**, ensuring that all partners can meet set requirements. These platforms offer **collaboration tools and real-time insights** to optimize supply chain efficiency, improve decisions, and reduce costs through strategic supplier interaction.



Use case

Procurement:

- *With a diversified supply chain, multiple suppliers and global operations*
- *Need for visibility across all products, separate parts and partners*



Challenges being solved

- Provide the ability to **monitor an order's journey** from placement to delivery, ensuring transparency throughout the process.
- Assists in pinpointing **variances between what is ordered and what is delivered**, enhancing **accuracy in order fulfillment**.
- **Facilitates informed decision-making** by offering data analytics and insights into the supply chain's performance.

Startups

Ameba

An AI-powered platform that integrates communication channels, applies AI to unstructured files and messages, and enables continuous tracking of supplier conversations to deliver real-time insights and automate supplier follow-ups.

ANVYL

Supply chain visibility platform designed for consumer brands, offering end-to-end management and automation of the purchase order process. Real-time collaboration, automates tasks, and offers insights across the entire purchase order lifecycle, streamlining processes from issuance to warehouse delivery.

Altana

Global supply chain platform connects and cleans trade data, providing real-time insights into global trade transactions, ownership, movements, and risks offers customizable dashboards for data analysis, and employs a natural language assistant powered by machine learning to assist facilitate collaboration across all actors.

ADNAVEM

A logistics technology company that operates an online marketplace using proprietary algorithms to connect transport buyers and logistics suppliers, promoting end-to-end collaboration and allowing users to customize their own supply chain and gain visibility.

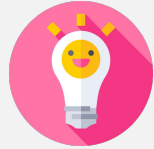


Digital twin & Forecasting Tools

1. Demand forecasting & production optimization
2. Return and reverse supply optimization

2023

Demand forecasting & production optimization



What is it?

Digital twin technology in the supply chain offers advanced demand forecasting solutions by **creating a virtual model that mirrors the actual supply chain**. It harnesses **real-time and historical data** from various sources, such as IoT devices, logistics databases, and customer feedback, **to simulate and analyze supply chain dynamics**. With digital twins, companies **can predict demand patterns, optimize inventory across networks, and mitigate potential bottlenecks**. This allows for precise planning, improved efficiency, and cost reduction in warehousing and production, ensuring that supply meets demand effectively while minimizing excess stock and associated costs.



Use case

Supermarkets:

- *Over-ordering or under-ordering fresh items leads to excess waste, missed sales*
- *Demand forecasting and inventory planning is a necessity to maximise gross profit and revenue*



Benefits of Digital Supply Chain Twin

- **Improved margins** result from **reduced inventory levels** and **increased sell-through**.
- Reduced costs for shipping, handling, and waste contribute to **overall cost savings**.
- **Smaller carbon footprints** are realized due to efficient shipping practices and reduced product obsolescence.
- Greater **planner productivity reduces workforce strain** and enables resource allocation for strategic activities and career advancement opportunities.

Startups



An AI-driven application provides daily personalized recommendations for retail shelf and product optimization. Analyzing over 300 parameters to ensure efficient stock levels and fresher product offerings.



A platform that delivers real-time demand forecasting and actionable inventory insights, allowing strong adaptability to customer behaviors and market conditions their AI- powered assistant facilitates immediate data access and analysis, for businesses optimize on-shelf availability.

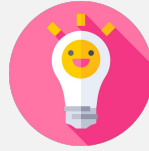


Software using advanced AI/ML technology for demand forecasting, embracing the power of probabilities over fixed rules to manage variability. This approach delivers risk-adjusted recommendations, automated workflows, and allows cost saving through better predictions.



AI-driven predictive inventory optimization platform that utilizes diverse data inputs, including social media and weather trends, to refine demand forecasting for retailers and brands. Thus allowing inventory planning, reduced waste, better profit margins.

Return and reverse supply optimization



What is it?

Digital twins serve as sophisticated tools in reverse logistics, offering a virtual environment to **simulate and analyze the return processes of goods**. These AI-powered models, provide insights that enhance sustainability and efficiency, while maximizing the **recapture of value from returned items**. They enable precise forecasting and optimization in the management of returns by **simulating various scenarios** in complex and uncertain operational landscapes, such as **optimization of networks and routes**. With the potential to **improve decision-making significantly**, the use of digital twins is becoming integral in revolutionizing supply chain and logistics operations, particularly in managing the intricacies of reverse logistics.



Use case

Retailers:

- *Require a unified system for detecting, forecasting, and ultimately minimizing product returns*
- *Centralising the data enables identification of root cause and call to action with a collaborative network*



Challenges being solved

- **Warehouse Space:** Extra space for returns complicates sustainability efforts in reverse logistics.
- **Complex Return Flows:** Reverse logistics involves intricate steps that increase costs and emissions challenges.
- **Loss Reduction:** Lack of data hinders efficient reverse logistics, yet targeted software can reduce this inefficiency.
- **Cost reduction:** Calculate and route returns dynamically to speeding up resale and cut reverse logistics expenses from the point of return

Startups



An AI-powered platform that streamlines the returns process for e-commerce by automating decision-making based on business metrics, facilitating efficient handling, and resale of returned items resulting in reduced cost, waste and carbon emissions,



The Arrive Platform assists brands and retailers in monetizing returns through a network that manages the refurbishment and resale of products, enhancing revenue and reducing costs. Through analytics they allow strategic scaling of the resale channel.



A recommerce solution for large items, handling the entire lifecycle from pickup to resale, including a 7-step inspection and a data-driven pricing strategy. The leveraging of advanced consolidation tactics allows return handling costs and waste reduction.



A global circular economy re-commerce marketplace to transform return and excess retail goods handling, utilizing data analytics for optimized recovery and brand protection. Their innovating technology allows global match-making thus optimising recoveries.

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And many opportunities we wish to discover...

**.. our Search for the Next Breakthrough
Opportunities to Foster and Support continues**



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