

TECH OFFER

AI-Driven End-to-End Logistics and Warehouse Automation Solution



KEY INFORMATION

TECHNOLOGY CATEGORY:

Logistics - Delivery & Distribution

Logistics - Inventory Management

Logistics - Planning & Order Processing

Logistics - Value-Added Services

TECHNOLOGY READINESS LEVEL (TRL): **TRL9**

COUNTRY: **CANADA**

ID NUMBER: **TO175175**

OVERVIEW

In a more globalized and interconnected world, logistical management becomes more complex with more demand for real-time tracking of products within the supply chain. With global events potentially disrupting any section of the supply chain, companies within are now required to efficiently provide visibility of the orders while building up resiliency to ensure smooth operation of their services.

The technology solution addresses the complexities of modern supply chains by providing a unified solution that integrates multiple products & tools for efficiently managing the logistics and warehouse. The platform uses AI and IoT to deliver real-time visibility, predictive analytics, and automated workflows. This innovation aims to improve efficiency, reduce costs, and enhance sustainability for enterprises within the logistics and warehouse sectors.

The technology owner is looking for collaboration partners, who wish to leverage on their data and AI solutions to automate logistical workflow operations and enable data-driven decisions for supply chain optimisation.

TECHNOLOGY FEATURES & SPECIFICATIONS

The solution suite encompasses a suite of modules including a warehouse management system (WMS), labor management system (LMS), transportation management system (TMS), and shipping solutions. The key features of this technology include AI-driven predictive analytics, real-time tracking, automated inventory management, and comprehensive API integrations with e-commerce platforms and carriers. The platform's comprehensive and scalable solution accommodates to the growth plan of any business while providing smooth operation, improved operational efficiency and cost savings.

POTENTIAL APPLICATIONS

The digital platform is a versatile solution improving supply chain processes across various industries such as

- **Warehouse Automation:** Enables streamline inventory tracking, order picking and shipment processing
- **Inventory Management:** Optimise inventory stock and prevents stockouts or overstock situations
- **Logistics Management:** Leverages on AI to optimise transportation route planning, shipment tracking and carrier management
- **Supply Chain Processes:** Provides real-time visibility and analytics while integrating seamlessly with existing system
- **Retail Management:** Enables management of omnichannel inventory, automating order fulfilment and ensuring timely deliveries

MARKET TRENDS & OPPORTUNITIES

The global logistics automation market is projected to reach USD 100 billion by 2025.

UNIQUE VALUE PROPOSITION

The end-to-end platform solution provides workflow automation from the first mile to the last mile for any logistics operation needs. Its modular design offers customization while ensuring scalability, catering to the unique needs of both small businesses and large enterprises. This AI-powered solution provides AI-driven insights via forward technology integrations and seamless 3rd party system integration, enabling a high level of connectivity and accessibility.