

**HCLTech** | Supercharging  
Progress™

# HCLTech Augmented AI Route Optimization Tool

Revolutionizing healthcare logistics



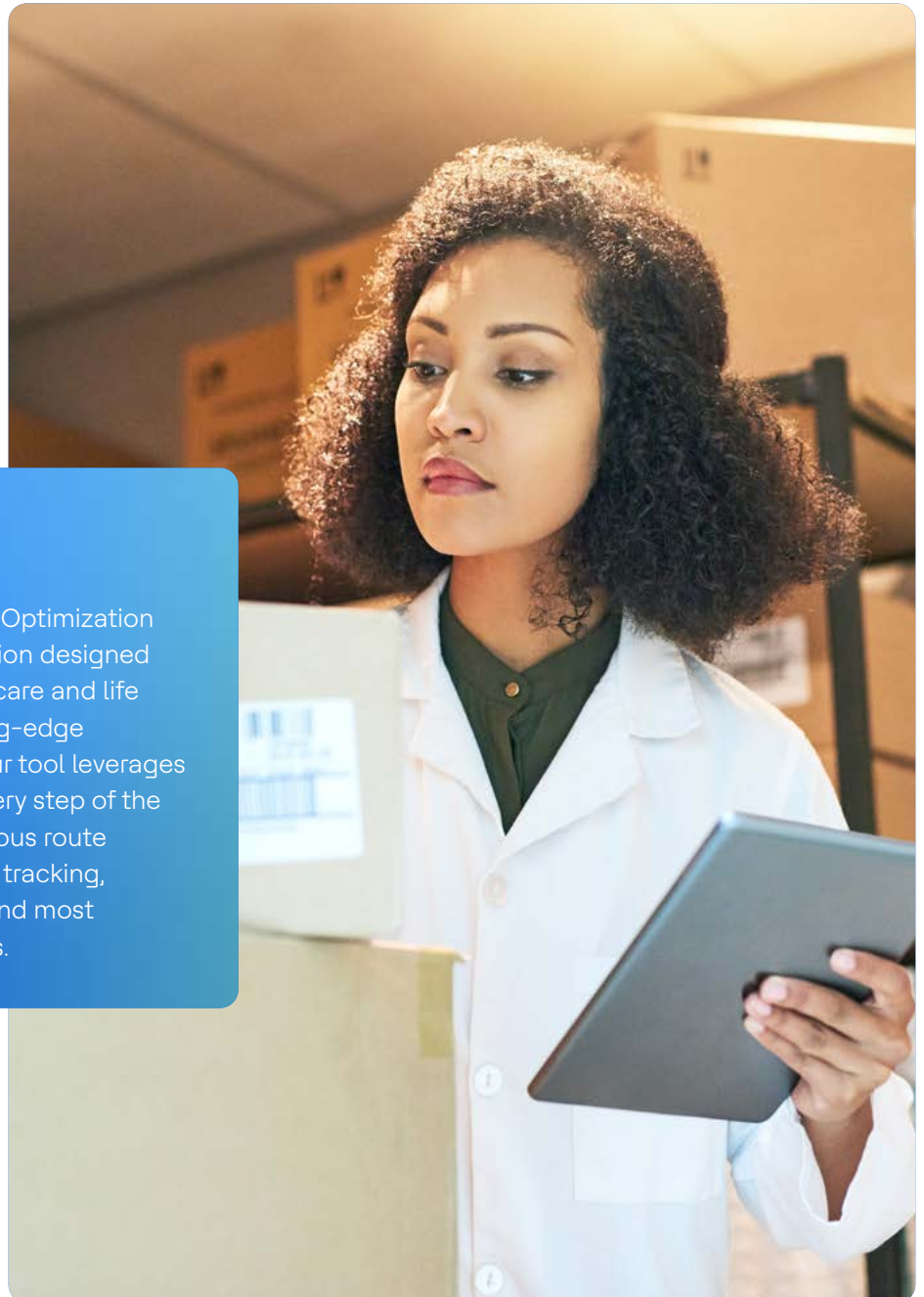
# Introduction

In the fast-evolving landscape of life sciences and healthcare, the need for efficient, accurate and timely delivery of goods has never been more critical. Whether it is medical devices, pharmaceutical supplies, or sensitive biological samples, ensuring these goods reach their destination safely and on time is paramount.

The traditional process relies heavily on human intervention in decision-making regarding selecting routes, troubleshooting, tracking vehicles in transit, etc. This often causes human errors and a longer time for decision-making, leading to delays and losses. Timely delivery of medical essentials is often hampered by external factors like bad weather, heavy traffic and delays related to inbound/outbound logistics, which lead to compromised product quality and losses.

## Overview

HCLTech AI Augmented Route Optimization Tool is a next-generation solution designed specifically to enhance healthcare and life sciences logistics, using cutting-edge Generative AI technologies. Our tool leverages the power of AI to optimize every step of the transit process, from autonomous route planning to intelligent delivery tracking, ensuring the safest, quickest and most efficient delivery of your goods.





## Key features

### Autonomous route planning

GenAI algorithms automatically generate optimal routes, factoring in real-time data such as cost, container capacity, traffic congestion, road closures and weather conditions. This ensures a continuously updated and precise path for every delivery, reducing the likelihood of delays and maximizing route efficiency.

### Route efficiency

The system ensures goods are delivered quickly while minimizing fuel consumption, delivery time and operational costs. By dynamically adjusting to unforeseen events, such as accidents or sudden changes in traffic, the tool offers the best possible route every time.

### Flexibility and customization

Tailor the system to your unique delivery requirements. Whether you need to ship urgent pharmaceuticals or temperature-sensitive biological samples, the tool offers custom route options based on the type of goods, delivery urgency and regulatory compliance, ensuring safe, compliant transit.

## Benefits



### Time savings

Reduce transit time significantly by selecting the most efficient routes and avoiding delays due to real-time adaptive AI technology



### Sustainability

The tool optimizes routes, reducing fuel usage and lowering carbon emissions to help meet sustainability goals in logistics



### Cost reduction

Minimize operational costs through optimized fuel consumption, driver productivity and route adjustments that avoid traffic jams or delays



### Enhanced compliance

Ensure that regulatory standards are upheld, especially for healthcare-related goods requiring specific handling, like temperature-controlled deliveries



### Real-time monitoring and alerts

Stay informed with live route tracking and receive notifications about any potential delivery risks, allowing for quick corrective actions and enhanced shipment security

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