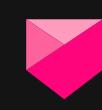




Stellar Soft's Logistic Projects

Clutch (5.0) ★★★★★

Clutch Overall Rating review 5.0

Upwork 

TOP RATED PLUS

 **shopify**
partners



TOP SHOPIFY COMPANY



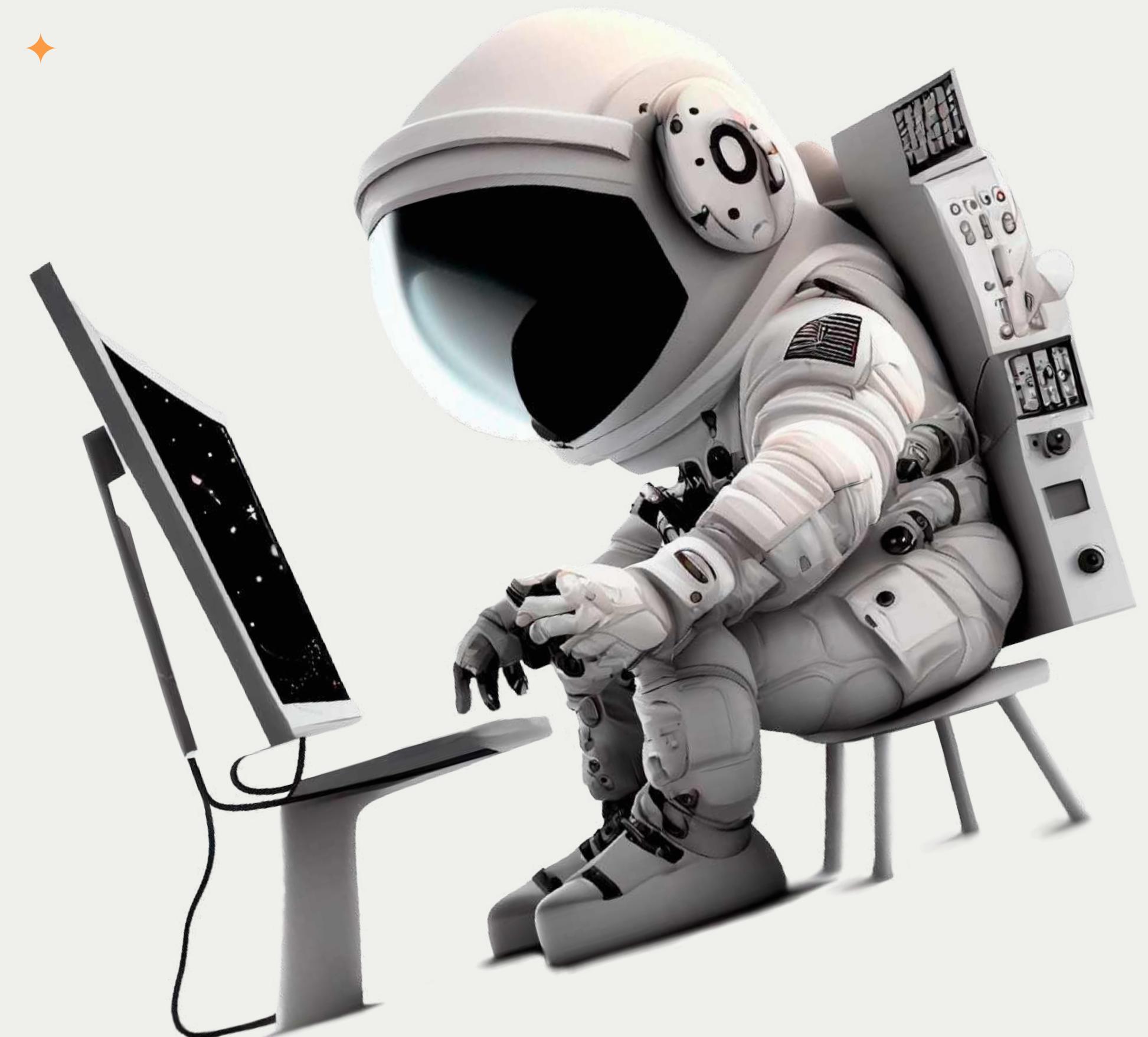
TOP E-COMMERCE DEVELOPERS



TOP PHP DEVELOPERS



TOP NODE.JS DEVELOPER



Cargo Chief

Load Planning System

We helped Cargo Chief streamline operations by automating load planning, reducing manual work and errors, cutting costs, and improving customer retention. The semi-automated system also attracted new clients by enhancing delivery and production processes. This solution delivered impressive results: **a 30% reduction in lead times** and **a 50% reduction in human errors** related to logistics planning. Furthermore, **storage and shipping costs decreased by 20%**, while **client retention improved by 15%** due to the system's reliability.

**Industry:**

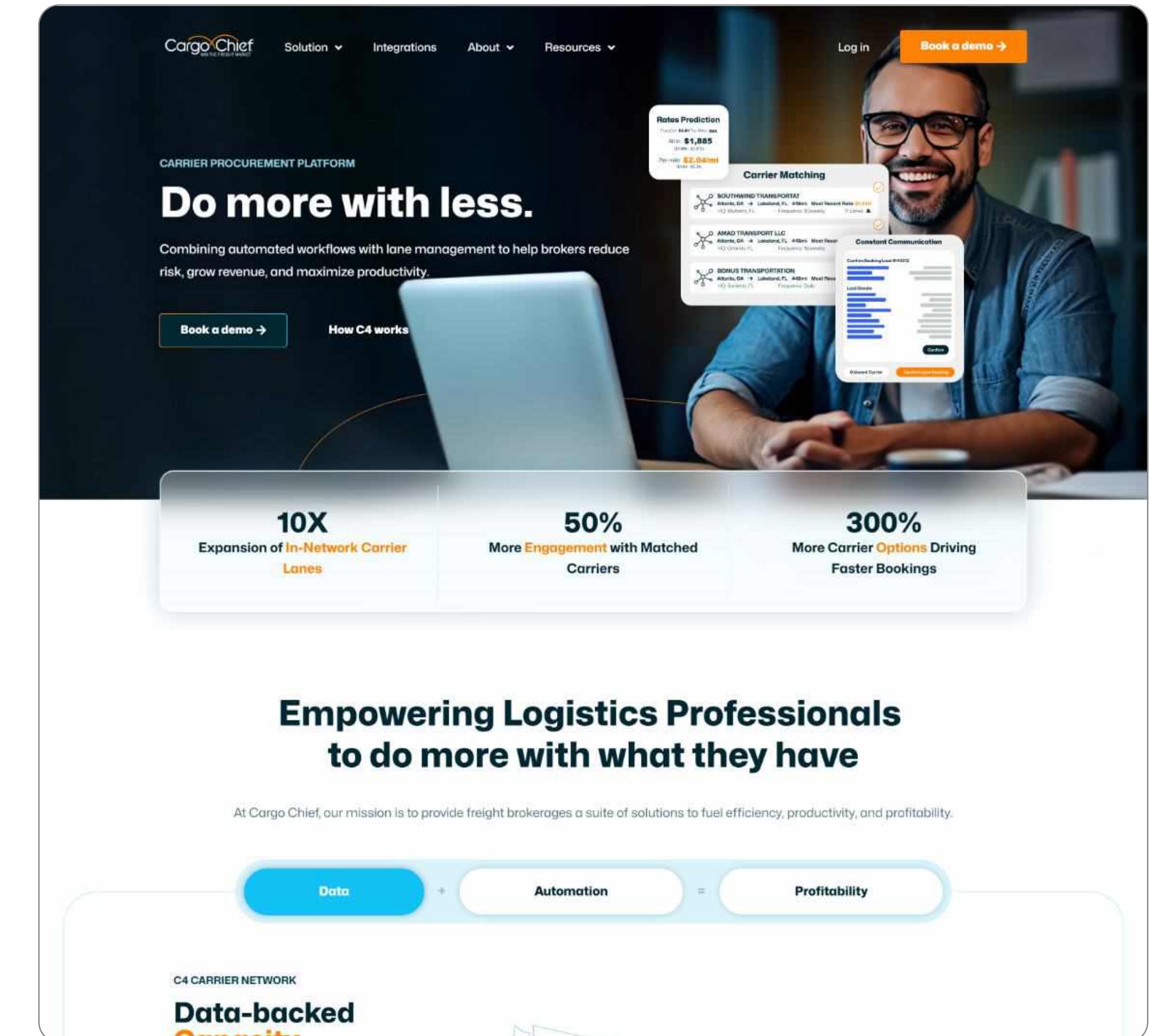
Logistics and Supply Chain

**Team size:** 5**Country:** USA**Collaboration:**

September 2022 – August 2023

About client

Cargo Chief is a fourth-party logistics company providing transportation, storage, inventory forecasting, order fulfillment, and freight forwarding services.



The screenshot shows the Cargo Chief website's homepage. The top navigation bar includes links for Solution, Integrations, About, and Resources. A prominent 'Book a demo' button is located in the top right corner. The main headline reads 'CARRIER PROCUREMENT PLATFORM' and 'Do more with less.' Below this, a sub-headline states: 'Combining automated workflows with lane management to help brokers reduce risk, grow revenue, and maximize productivity.' To the right, a smiling man is shown working on a laptop. Three callout boxes highlight key features: '10X Expansion of In-Network Carrier Lanes', '50% More Engagement with Matched Carriers', and '300% More Carrier Options Driving Faster Bookings'. At the bottom, there's a section titled 'Empowering Logistics Professionals to do more with what they have' with a sub-section 'Data-backed Capacity'.

Screens of system

Business Context

Cargo Chief helps manufacturing plants maintain production by sourcing materials from various suppliers. Frequent changes from suppliers and manufacturers posed significant challenges. To resolve this, they implemented a load planning system that:

- Accurately calculates material availability.
- Compares delivery options in real-time based on dynamic parameters.
- Plans truck requirements efficiently.
- Updates production plans based on delivery changes.

This system drastically reduced lead times by 30%, minimized errors by 50%, and improved overall efficiency.



Value Delivered

The load planning system optimized Cargo Chief's operations, delivering these key outcomes:

- **Faster Recalculations:** Recalculations now take seconds, compared to hours, cutting recalculation time by over 90%.
- **Automated Production Feasibility:** No more manual calculations for production planning, saving 3-4 hours per production cycle.
- **Reduced Storage Costs:** Overstocking is eliminated, lowering storage costs by 20% and boosting customer loyalty.
- **Fewer Errors:** Issues like poor delivery planning and truck mismanagement have been minimized, reducing human error by 50%.
- **Optimized Shipping Costs:** Improved truck planning has led to a 20% reduction in shipping costs, ensuring cost-effective deliveries.

Overall, the solution significantly enhanced operational efficiency and reliability.

Solution Overview

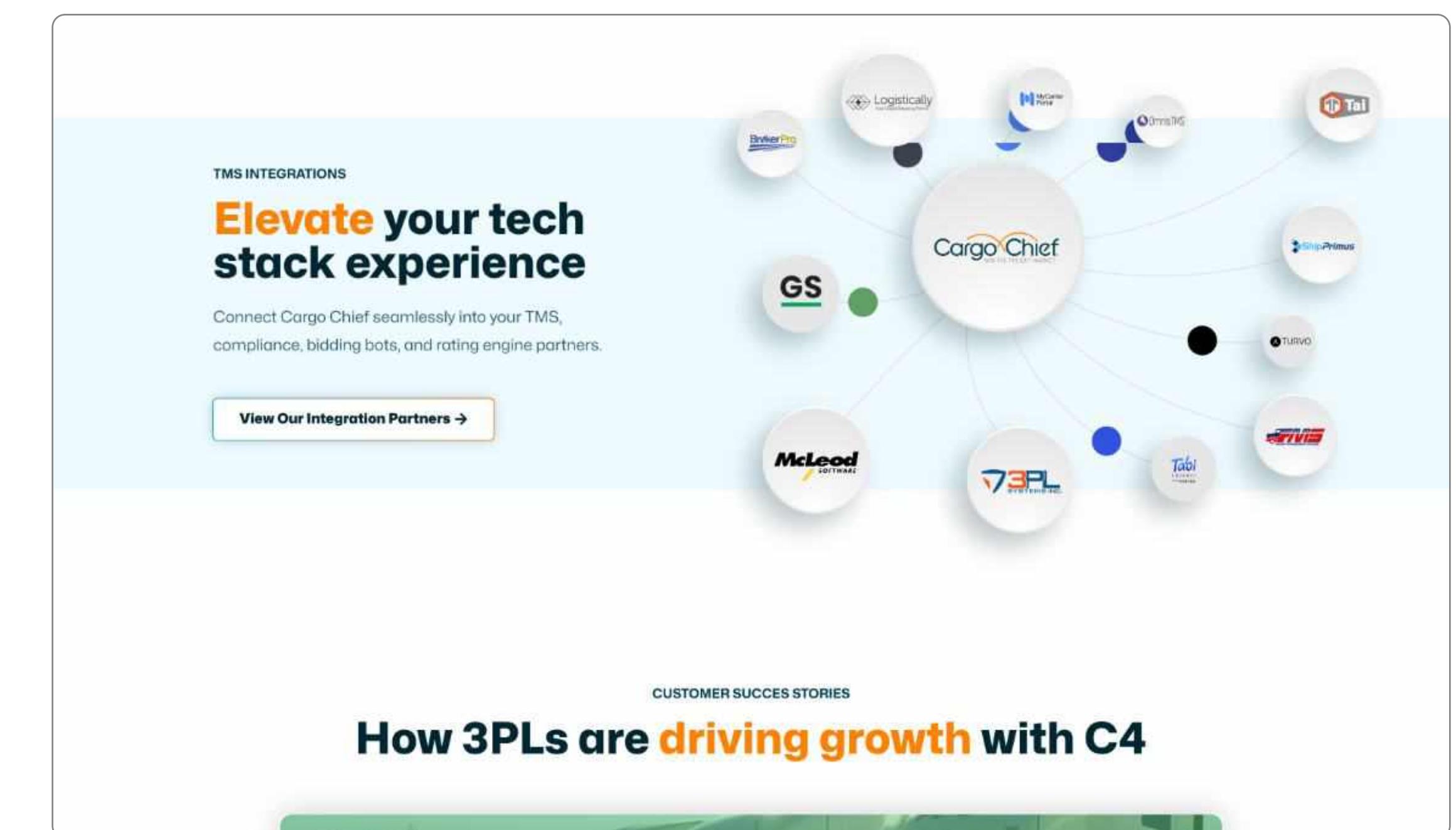
To optimize Cargo Chief's processes, we:

- 1. Mapped Current and Future Processes:** We assessed the existing workflow, identified inefficiencies, and developed an ideal target state based on the client's KPIs.
- 2. Designed the Load Planning System:** A sophisticated tool integrated with production data and component arrival schedules. This system helps manufacturers:
 - Plan production dates, quantities, and lead times.
 - Assess delivery feasibility to meet production needs.
 - Make data-driven decisions about truck requirements.
- 3. Tech Stack:**
 - **Frontend:** React.js with Material-UI
 - **Backend:** Laravel, FastAPI, PostgreSQL, MongoDB
 - **Optimization:** Google OR-Tools
 - **Cloud & Deployment:** AWS, Docker, Kubernetes
 - **Monitoring:** Prometheus and Grafana

This tech stack ensured scalability, efficiency, and seamless performance.

Developing the Solution

We built a Proof of Concept (PoC) system with a multi-tenant architecture, fast truck calculations, and automated recalculations triggered by changes. This PoC supports future enhancements and scalable integration.



Girteka

Transportation Management System Development

We helped Girteka streamline user onboarding, enhance route planning, and automate problem-solving within their transportation management system, delivering major operational improvements. With this new system, the client reduced **route planning time by 75%**, from several hours to just 30 minutes. Additionally, automated notifications replaced manual interventions, reducing time spent on routine issues by 60%. The onboarding process for new users was cut by 90%, ensuring rapid system adoption.



Industry: Logistics



Team size: 10



Country: Lithuania



Collaboration:
December 2020 – February 2022

About the Client

Girteka is a US-based logistics company specializing in nationwide shipping.



The screenshot shows the Girteka website's main banner featuring a photograph of a train in a snowy, mountainous region. Overlaid on the image is the text "INTERMODAL RAIL TRANSPORT" in large, bold letters, with "Eco-Friendly Efficiency" in smaller text below it. The website's navigation bar includes links for "MENU", "LEGAL NOTICES", "SEARCH", "GET A QUOTE", "CONTACT US", and language selection ("EN"). On the left side of the page, there's a sidebar with the Girteka logo and the text "Girteka Responsible Logistics". Below the banner, a news section displays several articles with thumbnails, titles, and dates. A prominent article at the bottom left is titled "HVO in logistics: an overview of services, impact, and future potential" with a publication date of "2024 11 03". A "MORE NEWS" button is located at the bottom right of the news section.

Screens of solution

Business Context

Girteka faced challenges managing orders, employees, and deliveries during rapid expansion. Existing software didn't meet their needs, so we developed a custom solution to address:

- **Time-consuming user onboarding.**
- **Manual route building (up to 6 hours daily).**
- **Inefficient communication and problem resolution (up to 3 hours daily).**

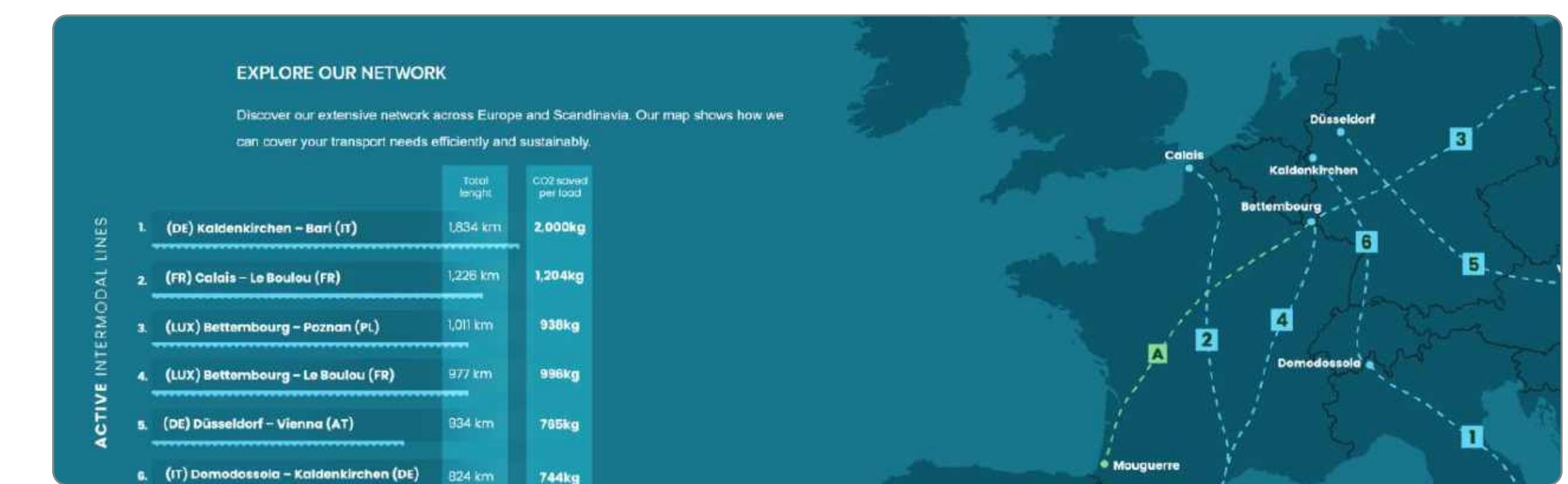


Value Delivered

Key results from the new Transportation Management System:

- **Route Planning Efficiency:** Reduced route planning time by 75%, allowing the system to generate optimized routes in 30 minutes, rather than several hours.
- **Automated Issue Resolution:** Eliminated manual intervention through real-time notifications, status updates, and a smart dashboard.
- **Faster Onboarding:** New users can now onboard in minutes, cutting onboarding time by 90%.

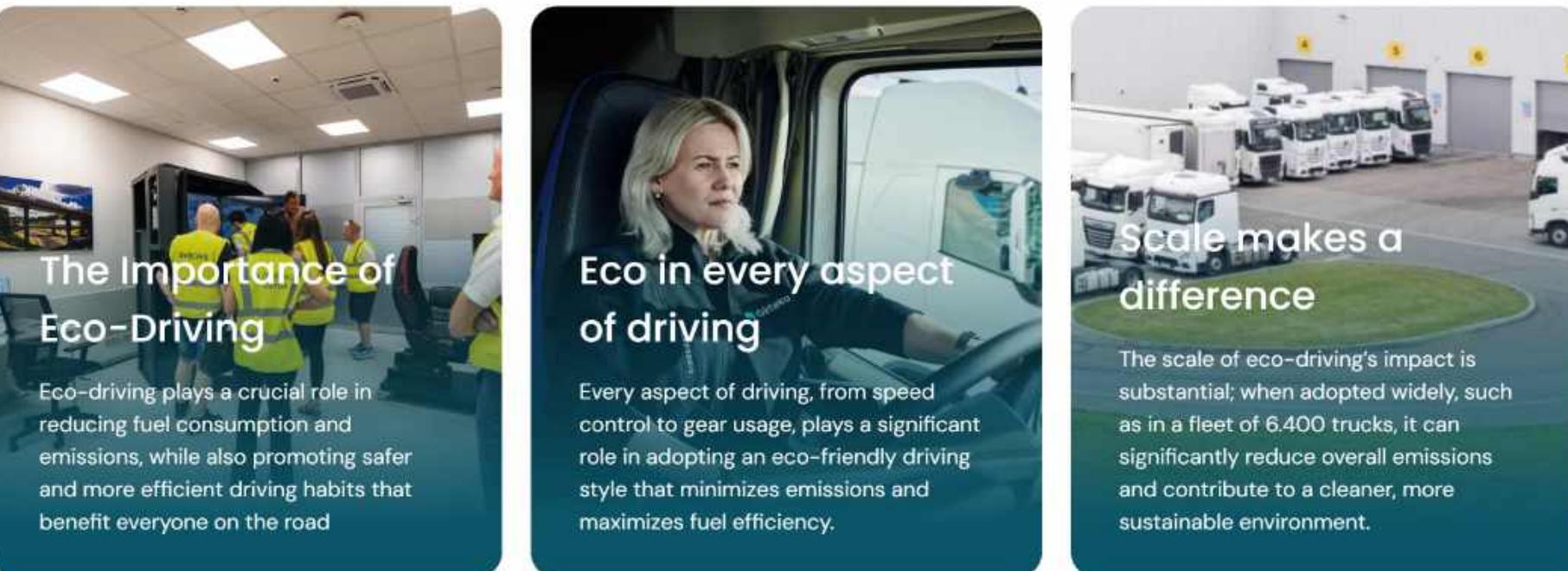
The solution improved operational efficiency, cutting routine problem-solving time by 60%.



Solution Overview

We developed a user-friendly system that:

- Integrates with existing warehouse solutions for real-time updates on delivery lists.
- Provides a comprehensive dashboard for route management.
- Automatically generates optimal routes, saving time and cost.
- Real-Time Notifications. Managers receive alerts for potential issues, ensuring quick resolutions.



Streamlining Onboarding

The onboarding process is now seamless:

- Upload company details and logos.
- Create directories for warehouses, vehicles, and drivers.
- Add logistics staff and define access levels.

This setup reduces onboarding time significantly.

Tech Stack

To ensure an efficient, scalable solution, we used:

- **Frontend:** Vue.js, Vuetify
- **Backend:** Laravel
- **Database:** PostgreSQL
- **Real-Time Notifications:** Redis

- **Contacts us**



Corporate Information

Website:

stellar-soft.com

Linkedin:

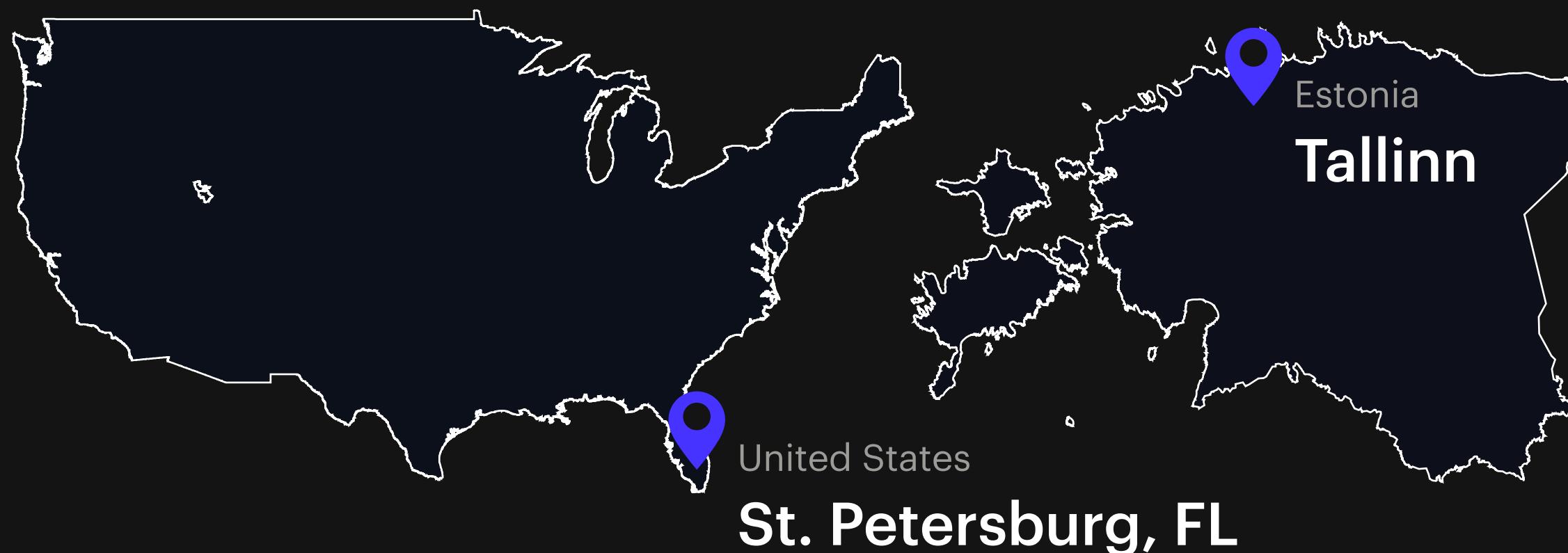
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