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Location Manager Track

Platform Overview

What Is ReRoute AI?

ReRoute AI is a sustainability-first inventory intelligence platform built for food service operations. It connects three capabilities that are usually managed separately:

1. **Real-time inventory tracking** – know exactly what you have at every location, updated via NFC and QR scanning.
2. **AI-powered demand forecasting** – predict what you will need before you run out, adjusted for events, weather, and day-of-week patterns.
3. **Environmental sustainability scoring** – every product receives a 0-100 sustainability score so you can measure and reduce your carbon footprint.

The Problem We Solve

Most food service operations face a common set of challenges: no visibility into environmental impact, reactive ordering based on gut feel, disconnected inventory tracked in spreadsheets or sticky notes, and time-consuming manual counting. ReRoute AI replaces all of that with a single platform that provides real-time data, intelligent predictions, and actionable sustainability insights.

Key Outcomes

When used consistently, the platform delivers measurable results:

- **Reduce food waste by 20-35%** through demand-driven ordering and expiration tracking.
- **Meet ESG and net-zero commitments** with GHG Protocol Scope 3 sustainability reports.
- **Lower ordering costs** by eliminating overstock and rush orders.
- **Eliminate manual counting** with NFC tag scanning that updates inventory in seconds.
- **Make data-driven decisions** with AI agents that analyze your data and recommend actions.

Key Terms

Before diving deeper, here are the terms you will encounter throughout the platform:

Term	Definition
Sustainability Score	A 0-100 rating based on carbon footprint, materials, and eco-certifications. Higher is better.
Par Level	The ideal quantity to keep on hand, calculated by AI from demand patterns.

Term	Definition
Eco-Alternative	A more sustainable substitute suggested by the AI for a current product.
NFC Transfer	Moving inventory between locations using NFC tag scans to verify pickup and delivery.
Available Quantity	Current quantity minus reserved quantity – what is actually available to use.

Try it yourself

Log in and explore the Briefing page. Click the **Daily Briefing** quick action to see an AI-generated summary of your property's current status. This is the single best way to get oriented on your first day.

Products & Sustainability

The Product Catalog

Click **Products** in the sidebar to open the product catalog. The landing page features a search bar, a **Top Sustainable Picks** carousel showing your highest-scoring products, and a **New in Catalog** section with recently added items. You can toggle between grid and list views and apply filters to narrow results.

Searching for Products

The platform offers three ways to find products:

- **Text search** – type a product name, brand, or keyword. The search uses fuzzy matching, so partial terms and misspellings still return results.
- **Semantic search** – click the sparkle icon and type a natural language query like "eco-friendly cups." The AI understands intent and returns products that match the concept, even if the exact words are not in the product name.
- **Image search** – click the Image Search button and upload a photo. This is useful for identifying unlabeled products during deliveries.

Understanding Sustainability Scores

Every product in the catalog receives a sustainability score from 0 to 100. Click on any product to see its detail page, which includes:

- **Overall Score Gauge** – a circular gauge with color coding: Green (80-100, Excellent), Yellow (60-79, Good), Orange (40-59, Average), Red (0-39, Poor).
- **Score Breakdown** – individual dimension scores for Material sourcing, End of Life disposal, Toxicity level, and Renewability.
- **Carbon Footprint** – estimated kg CO2e per unit with attribution to the data source.
- **High Priority Actions** – specific steps to improve this product's sustainability performance.
- **ReRoute AI Recommendations** – AI-generated suggestions tagged by severity (Critical, Warning, Info).

Scores are calculated using a three-tier approach: first the Climatiq emissions database, then AI material analysis, and finally category defaults as a fallback. Scores are cached for 30 days and refreshed automatically.

Eco-Alternatives and Swap Suggestions

On any product detail page, scroll to the **Eco-Alternatives** section to see AI-recommended substitutes. Each alternative shows the sustainability improvement, cost comparison, and distributor availability.

The **Swap Suggestions** feature goes further by proactively identifying your highest-impact substitution opportunities – products where switching to an alternative would most improve your overall sustainability profile.

> **Try it yourself**
>
> Search for "compostable" in the product catalog. Click on a result to view its sustainability breakdown. Then find a lower-scoring product and compare the two. Check whether the lower-scoring product has eco-alternatives you could switch to.

Inventory Management

The Inventory Page

Click **Inventory** in the sidebar to access real-time stock data. The page opens on the **Stock** tab and displays summary cards for Total Items, Low Stock Alerts, and a Location selector dropdown. Below that you see individual product cards showing each item's image, name, UPC, brand, sustainability score, and available quantity.

Additional tabs across the top give you access to **Restock** (distributor reorder management), **Forecast** (demand predictions), and **Orders** (purchase order tracking).

Stock Levels and Location Switching

Use the **Location** dropdown to switch between areas like Storage Room, Kitchen Storage, Alcohol Cage, Lobby Bar, and Pool Bar. Each location maintains independent stock counts, so you get a dedicated view for every area.

Current, Available, and Reserved

Understanding the three quantity types is critical:

- **Current Quantity** – total physical units at the location.
- **Reserved Quantity** – units committed to a pending transfer.
- **Available Quantity** – what you can actually use: `Current - Reserved`.

Low stock alerts trigger when **available quantity** drops below the configured threshold, not current quantity. This means a location can appear fully stocked but still trigger an alert if many items are reserved for outgoing transfers.

Par Levels and Low Stock Thresholds

A **par level** is the AI-recommended ideal quantity to keep on hand, based on historical demand patterns. A **low stock threshold** is the point at which the platform sends an alert. You can configure both per product and per location.

Alerts are deduplicated over a 24-hour window to prevent notification fatigue. If the same product stays below threshold, you receive one alert per day rather than a continuous stream.

Inventory History

Every stock change is recorded in an audit trail: manual edits, transfer completions, deliveries, and adjustments. You can view the history for any product to see exactly what changed, when, and who made the change. This is essential for accountability and for investigating discrepancies.

Editing Quantities

Click the settings gear icon on any product card to adjust quantities after a delivery, physical count, or correction. Changes are saved immediately with a timestamp and your user ID.

> **Try it yourself**
>
> Navigate to the Inventory page and switch between three locations. Find a product with a sustainability score below 60 and note its available quantity. Then check if that product has a par level configured by viewing its detail settings.

Transfers

Why Transfers Matter

Transfers are how you move inventory between locations within your property. Instead of manually adjusting stock at two locations and hoping the numbers match, a transfer handles both sides atomically. The source location's count goes down and the destination's count goes up, with NFC verification at each step.

Creating a Transfer

Click **Transfers** in the sidebar and start a new transfer. Select the source location, destination location, and the products and quantities you want to move. When you submit, the platform immediately **reserves** those quantities at the source – they remain physically on the shelf but are marked as unavailable to prevent double-booking.

The Transfer Lifecycle

Every transfer moves through four stages:

1. **Initiated** – transfer created, products reserved at source.
2. **In Transit** – pickup confirmed via NFC scan at the source location.
3. **Received** – delivery confirmed via NFC scan at the destination.
4. **Completed** – inventory counts updated at both locations.

This lifecycle ensures full traceability. You can see exactly when each step happened and who performed it.

NFC Verification

Locations equipped with NFC tags (such as the Alcohol Cage, Lobby Bar, and Pool Bar) require a physical scan to confirm pickup and delivery. When you arrive at the source location, scan the NFC tag with your mobile device to confirm pickup. Do the same at the destination to confirm delivery.

This two-scan verification creates an auditable chain of custody for every movement, which is especially important for controlled inventory like alcohol.

The Reservation System

When a transfer is initiated, the products are reserved at the source. This means:

- The source location's **available quantity** decreases immediately.
- The source location's **current quantity** stays the same until completion.
- No one else can transfer those same units.
- If the transfer is cancelled, reservations are released automatically.

Reservations are also auto-cleaned via EventBridge if a transfer stalls, preventing inventory from being locked indefinitely.

> **Try it yourself**
>
> Go to the Transfers page and review any existing transfers. Note which stage each one is in. If you see an "Initiated" transfer, check the source location's Inventory page and confirm that the transferred quantities appear as reserved.

AI Briefing & Quick Actions

The Briefing Page

The Briefing page is your AI-powered command center. It combines a conversational chat interface with one-click quick actions, giving you instant access to insights without navigating through multiple screens.

AI Agents

Behind the scenes, the platform runs six AI agents: five specialists and one orchestrator. You never need to choose which agent to use – the **Orchestrator** automatically routes your question to the right specialist based on context.

The specialists cover:

- **Inventory Agent** – stock levels, availability, location comparisons.
- **Sustainability Agent** – scores, eco-alternatives, carbon footprint analysis.
- **Forecasting Agent** – demand predictions, seasonal patterns, event impacts.
- **Analytics Agent** – usage trends, performance metrics, benchmarks.
- **Reporting Agent** – generate and schedule reports on demand.

Quick Actions

The right panel offers six one-click quick actions:

Action	What It Does
Daily Briefing	AI summary of attention items, low stock, forecasts, and recommendations
Low Stock	List of products below their alert thresholds
Trends	Usage patterns over the past 7 days
Sustainability	Overview of your sustainability performance and recommendations
Forecast	Demand predictions for the coming days
Scope 3 Report	GHG Protocol Scope 3 emissions report for your property

Asking Questions

You can type any question in natural language. Here are some examples:

- "What are my low stock items at the Pool Bar?"
- "Show me sustainability recommendations for this week."
- "What is the forecast for sparkling water over the next 5 days?"
- "Compare inventory across all my locations."

The AI understands context, so follow-up questions work naturally. If you ask about low stock and then say "What about the Kitchen Storage?", the agent knows you are still asking about low stock.

Tips for Best Results

- **Be specific about locations** when you have multiple areas.
- **Use the Daily Briefing** at the start of every shift – it is the single most valuable habit.
- **Check the History button** in the top-right to revisit past conversations.
- **Try different quick actions** to discover insights you might not have thought to ask about.

Try it yourself

Open the Briefing page and click **Daily Briefing**. Read through the AI summary, then ask a follow-up question about one of the items it mentions. Try the **Sustainability** quick action next and compare the two responses.

Demand Forecasting

What Is Demand Forecasting?

The platform uses AI to predict how much of each product you will need in the coming days and weeks. Forecasts are based on historical usage patterns, day-of-week trends, seasonal factors, weather data, and event calendars. This lets you order proactively instead of reacting to stockouts.

Viewing Forecasts

Navigate to the **Inventory** page and click the **Forecast** tab, or use the **Forecast** quick action on the Briefing page. Each product shows:

- **Predicted demand** – the expected quantity needed per day.
- **Confidence interval** – a range showing the best-case and worst-case scenarios.
- **Day-of-week patterns** – how demand varies across the week (for example, Saturday demand might be 1.5x the average while Monday is 0.7x).

Reading Confidence Intervals

A narrow confidence interval means the forecast is highly reliable – demand is predictable. A wide interval means demand is variable and you should plan for uncertainty. When ordering, consider ordering to the **upper bound** of a wide confidence interval to avoid stockouts during unexpectedly busy periods.

Day-of-Week Patterns

The AI learns recurring weekly patterns from your data. For a hotel property, you might see:

- **Monday-Wednesday** – lower demand (0.7x-0.9x multiplier).

- **Thursday-Friday** – rising demand (1.0x-1.3x).
- **Saturday** – peak demand (1.5x).
- **Sunday** – moderate (1.1x).

Understanding these patterns helps you time transfers and orders to match actual need rather than guessing.

Using Forecasts for Ordering

The most practical use of forecasts is deciding when and how much to order:

1. **Check the forecast** for the next 3-7 days.
2. **Compare predicted demand** against current available stock.
3. **Factor in lead times** – if a distributor takes 2 days to deliver, order before stock drops below 2 days of predicted demand.
4. **Use par levels** as guardrails – the AI-recommended par level incorporates forecast data automatically.

Event-Driven Adjustments

When special events are added to the platform's calendar (conferences, holidays, sports events), the forecast adjusts automatically. A large conference might increase beverage demand by 30-45%. The AI factors these events into predictions so you are not caught off guard.

> **Try it yourself**
>
> Go to the Forecast tab on the Inventory page and select a high-volume product. Note the confidence interval width. Then check the day-of-week pattern and see if Saturday shows a demand spike. Compare the forecast against current stock to decide if you need to reorder this week.

Ordering & Distributors

Managing Distributors

Click **Distributors** in the sidebar to view and manage your supplier relationships. Each distributor entry shows the company name, contact information, product categories they supply, and their relationship status. You must have an **active relationship** with a distributor before you can place orders.

The Order Lifecycle

Purchase orders follow a defined lifecycle:

1. **Draft** – you are building the order, adding products and quantities.
2. **Submitted** – the order has been sent to the distributor.
3. **Confirmed** – the distributor has acknowledged the order.
4. **Shipped** – the order is on its way.
5. **Received** – you have confirmed delivery at your location.
6. **Completed** – inventory has been updated with the received quantities.

You can track every order's progress on the **Orders** page or from the **Orders** tab on the Inventory page.

Creating an Order

From the **Restock** tab on the Inventory page, you can see products that need reordering based on current stock and par levels. Select the products you want to order, choose a distributor, confirm quantities, and

submit. The platform pre-fills suggested order quantities based on demand forecasts and par levels.

Auto-Reorder

For high-volume consumables with predictable demand, you can enable **auto-reorder**. When a product's available quantity drops below a configured threshold, the platform automatically creates a draft order with the recommended quantity.

Important notes about auto-reorder:

- It requires an **active distributor relationship** for the product.
- It creates a **draft** order, not a submitted one – you still review and approve.
- It works best for predictable items like napkins, cleaning supplies, and staple beverages.
- Specialty items and alcohol should be ordered manually for tighter control.

Receiving Orders

When a delivery arrives, go to the order on the Orders page and mark items as received. You can receive partial deliveries if not everything arrives at once. Once received, the inventory counts update automatically at the receiving location.

> **Try it yourself**
>
> Navigate to the Restock tab on the Inventory page and review which products are flagged for reorder. Check the suggested order quantities and see if they align with the forecast. Then visit the Distributors page to confirm you have an active relationship with the relevant supplier.

Reporting & Analytics

Report Types

Click **Reports** in the sidebar to access the reporting engine. The platform supports several report types:

- **Sustainability Report** – carbon footprint analysis, score distributions, and ESG compliance data. Best for stakeholder presentations and regulatory reporting.
- **Movement Report** – transfer history, pickup/delivery logs, and location-to-location flows.
- **Usage Report** – consumption patterns, top-used products, and waste analysis.
- **Inventory Report** – current stock snapshots across all locations.
- **Cost Report** – spending analysis by product, category, and distributor.

Generating a Report

Select the report type, date range, locations to include, and output format (PDF, CSV, or Excel). Click **Generate** and the report is built in the background. You receive a notification when it is ready for download.

Reports can also be generated via the AI chat. Ask something like "Generate a sustainability report for last month" and the Reporting Agent handles the rest.

Branding

Reports use a branding fallback hierarchy:

1. **Location branding** – if your specific location has custom logos and colors configured.
2. **Tenant branding** – your organization's default branding.

3. **Platform default** – ReRoute AI standard branding.

This means reports always look professional even if you have not configured custom branding yet.

Scheduling Reports

You can schedule reports for automatic generation and delivery. Configure:

- **Frequency** – daily, weekly, monthly.
- **Recipients** – email addresses that receive the report.
- **Format** – PDF, CSV, or Excel.

Scheduled reports are generated automatically and delivered to recipients' inboxes. This is ideal for weekly sustainability summaries to leadership or monthly cost reports to finance.

Analytics Dashboard

The **Analytics** page provides interactive dashboards for exploring trends without generating formal reports. You can view usage patterns, sustainability performance over time, location comparisons, and category breakdowns. Dashboards update in real time as new data flows in.

> **Try it yourself**
>
> Navigate to the Reports page and generate a Sustainability Report for the past 30 days. Review the output to see your property's carbon footprint breakdown. Then visit the Analytics page and explore the usage trend charts for your top 5 products.

Getting the Most from ReRoute AI

Daily Habits

The managers who get the most value from ReRoute AI share a few common habits:

Start every shift with the Daily Briefing. Click the Daily Briefing quick action on the Briefing page. It takes two minutes and gives you a complete picture of attention items, low stock, forecasts, and recommendations. This single habit prevents more issues than anything else.

Check notifications at midday. A quick glance at notifications catches incoming transfers that need receiving, stock alerts that appeared during the morning rush, and reports that are ready for download.

Do an end-of-day review. Before closing out, check the Inventory page for discrepancies, complete any open transfers, and note anything unusual in the AI chat for the next shift.

Weekly Tasks

Set aside 15-20 minutes once a week for:

- **Review trends** – use the Trends quick action to see usage patterns over the past 7 days. Look for unexpected spikes or drops.
- **Check par levels** – make sure AI-recommended stock quantities still match actual demand. Seasonal shifts or menu changes may require adjustments.
- **Explore swap suggestions** – visit the Products page and look at Swap Suggestions to identify easy sustainability wins you have not acted on yet.
- **Review forecasts** – check the 7-day forecast for high-volume items and ensure you have orders in place to cover predicted demand.

Tips for Maximum Value

Use the AI chat conversationally. Do not just click quick actions – ask follow-up questions. "Why is sparkling water usage up 30% this week?" gives you insight that a simple stock count cannot.

Set up auto-reorder for staples. High-volume, predictable items like napkins, cleaning supplies, and standard beverages benefit most from automated ordering. Reserve manual ordering for specialty items.

Share reports with your team. Schedule a weekly sustainability report to your team's email. When everyone sees the numbers, sustainability becomes a shared goal rather than a management mandate.

Act on eco-alternative suggestions. Even switching one or two products per month to greener alternatives compounds over time. The platform tracks your progress so you can see the cumulative impact.

Keep location data clean. Accurate inventory depends on accurate data entry. Make sure transfers are completed promptly and quantities are updated after deliveries and counts.

> **Try it yourself**
>
> Block 15 minutes on your calendar this week for a "ReRoute AI review." During that time, check trends, review par levels for your top 10 products, and look at swap suggestions. Note one action item to implement before next week's review.