



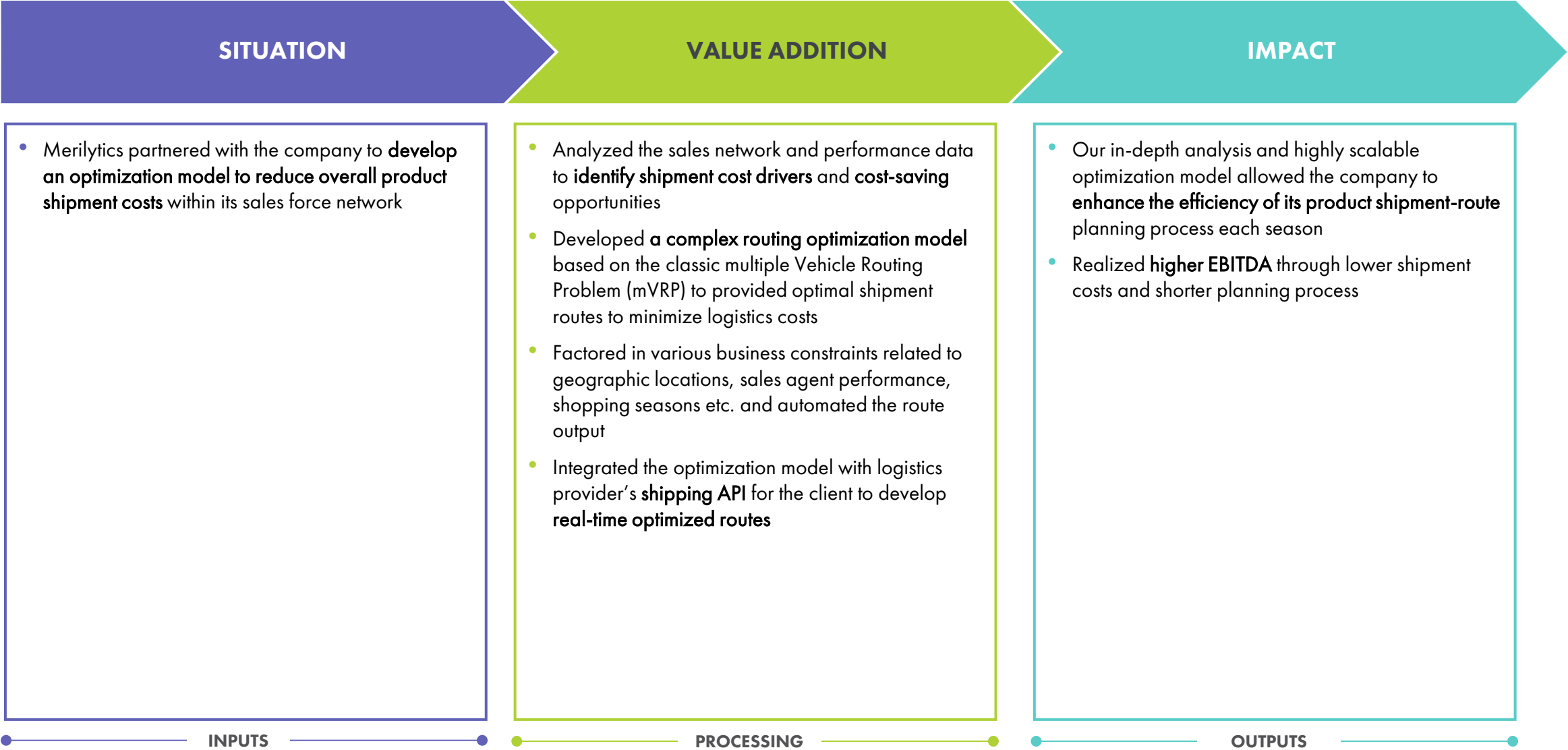
Routing Optimization

(Apparel Retailer)

Created a Frontline Solver based model to systematically optimize the routing of **several product sets to sales associates** across the U.S. to minimize the total shipping cost incurred by the company

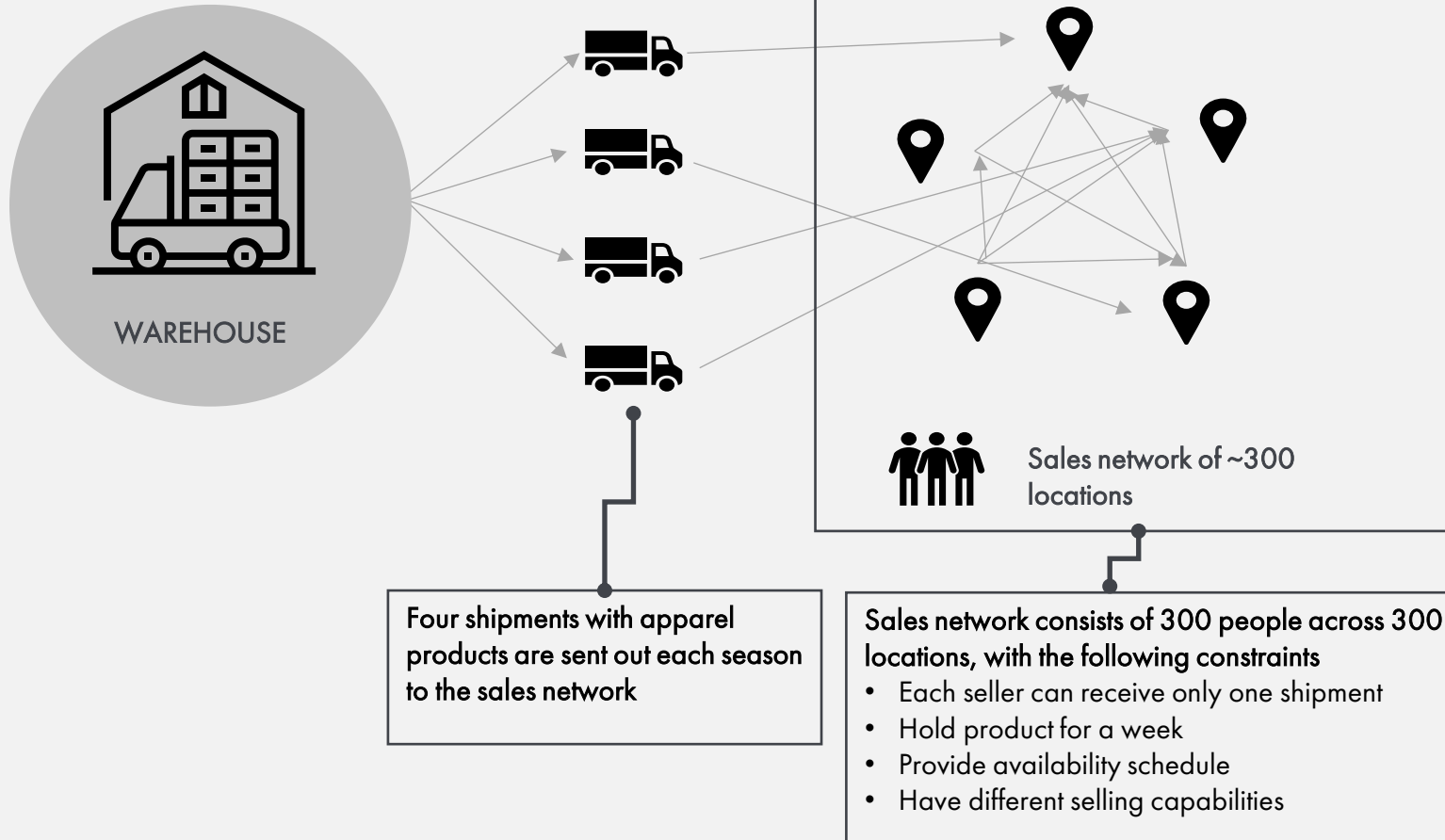
► **Routing Optimization For Pe-owned Apparel Retailer**

ABOUT THE CLIENT: Company is a PE-owned multi-million-dollar **apparel brand** with strong **track record** of providing multiple **lines of custom-designed products** over multiple decades



► Routing Optimization For PE-owned Apparel Retailer

Objective: Identifying the optimal route that leads to minimal shipping costs and maximum sales in the season



- Developed a **complex routing optimization model** based on the classic **multiple Vehicle Routing Problem (mVRP)** to provide optimal shipment routes to minimize logistics costs
- **Factored** in various **business constraints** related to geographic locations, sales agent performance rank, availability schedules, and automated the route output
- Integrated the optimization model with logistics provider's **shipping API** for the client by writing a **Java code**, which allowed the model to develop **real-time optimized routes**
- Model typically conducted **~10 million iterations**