



ibsoftware

Logistics Optimizer

Determine the best solution out of millions of possibilities

ilogistics OPTIMIZER

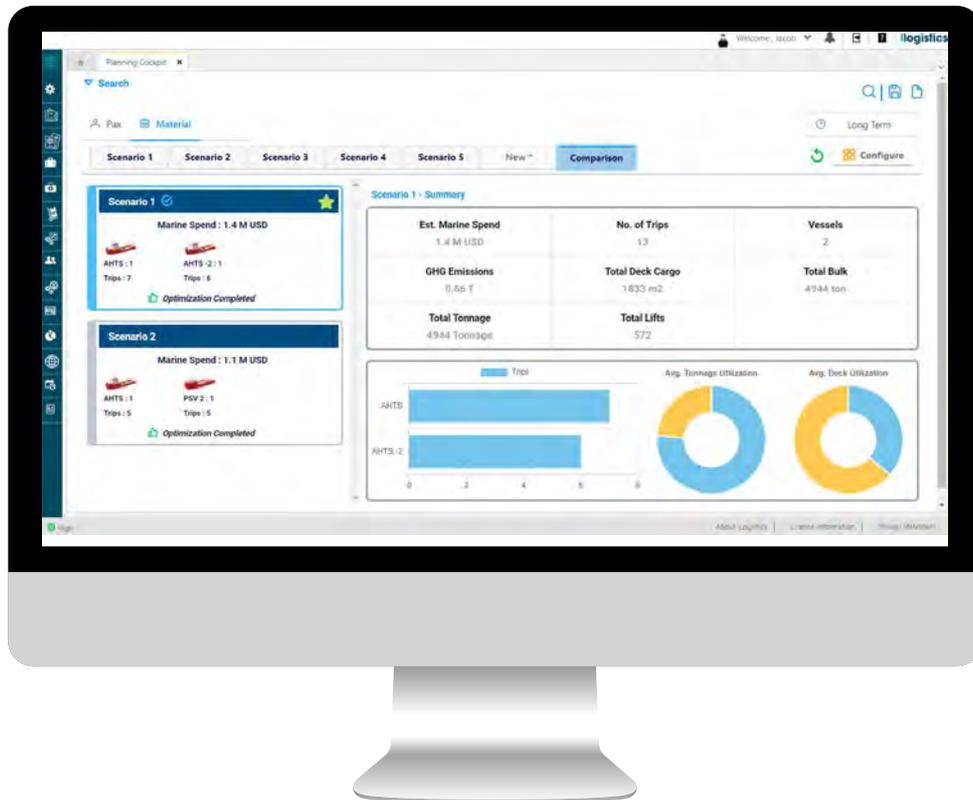
Key Benefits

- Fast and better business decisions
- Optimal hubs, fleet types and fleet
- Optimal routing
- What if? scenario analysis and simulations
- Reduced cost and CO2 emissions

iLogistics Mathematical Optimization Solver powers you to determine the optimal logistics capacities (fixed wing aircrafts, helicopters, boats, supply vessels, ground transport) that minimize carbon emissions and logistics cost while maximizing demand fulfillment under a complex set of operational constraints. Reduce CO2 emissions/barrel and achieve Environmental, Social & Governance (ESG) goals with logistics optimization focused on optimal hubs, fleet types, fleet and routing to support net zero supply chain.

Powerful Mathematical Optimization On Cloud

Mixed-Integer Linear Programming (MILP) and cloud computing technology enable faster mathematical optimization solver performance and make it cost-effective to run powerful optimizations instantly on cloud. iLogistics Optimizer offers a custom layer to fine tune the optimization model on the go by incorporating additional dynamic operational constraints.



What-If Simulations

Easy simulations allow planners to run scenarios, visualize excess capacity or under capacity and plan for contingencies with aviation (helicopters, charter aircrafts), marine (supply vessels, crew boats) & ground (bus, car train, truck) transportation and accommodation beds.

Transport Mode Optimization

Determine the optimal mode of transport (helicopter /vessel) for offshore passenger transport under operational constraints (incl. weather) on any given day.

Route Optimization

Easily determine the optimal fleet, route plan and route timings for helicopters, charter flights, vessels buses, cars and trucks under a complex set of business constraints.

Optimized FIFO Charter Flight Operations

Determine the optimal aircraft Types (e.g.: DHC 8, Embraer 190) and airport hubs to support field operations and maximize project demand fulfillment. Optimize Fly-In Fly-Out (FIFO) crew rotation schedule and crew change days aligned with optimal logistics schedule. Determine the most optimal route schedule for charter aircraft on any given day considering the operational constraints.

Optimized Helicopter & Crew Boat Operations

Determine the best helicopter types (e.g.: Sikorsky 92, AW139, Bell 412) and crew boat types (e.g.: 12 seater, 70 seater, 90 seater) to maximize demand fulfillment at minimal GHG emissions and costs. Find the most optimal route for helicopters and crew boat, considering the operational constraints.

Optimized Supply Vessel Operations

Determine the best supply vessel types (PSV, AHTS) and routes based on the fleet parameters (e.g.: deck & tank capacity availability, fuel capacity, current location), material demand parameters (e.g.: required on site date, daily rental cost, destination space availability etc.) and operational constraints (e.g.: weather, tides) to minimize offshore logistics costs GHG emissions.

Drilling Logistics Optimization

Determine the most optimal helicopters and vessels to support drilling campaigns with zero to minimal nonproductive rig time.



Redefining the Future of Travel through Technology Innovation

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