Coupa Supply Chain
Powered by LLamasosoft
Are You Getting the Most Value Out of Your Supply Chain Network?
Managing Supply Chain Spend is Critical to Your Success

- **Operational Expenses**: 70% of your company spend is in your supply chain
- **Working Capital**: 80% of your supply chain spend is locked in when you design it
- **Capital Investments**: 90% of company emissions are directly linked to supply chains

1. EY  
2. Network Design by Mike Watson et al.  
3. EPA
Coupa Helps Organizations Enable Digital Supply Chains

Global Leaders in All Industries

$16 B+
in value identified by customers

70%
of FORTUNE 100 with physical supply chains rely on our solutions

19 of 25
of Gartner’s Supply Chain Top 25 make their decisions with our technology

3000+
supply chain analytics initiatives with the world’s largest enterprises

14 of Top 15 Global Logistics Providers

Leading Public Health Agencies & NGO’s

Major agencies within the US Government & Department of Defense
What I hear from practitioners

“Our nodes, modes, and flows are far more dynamic now”

“We struggle with simultaneous issues of demand volatility, material, capacity, and logistics constraints”

“Our supplier mix is very rapidly changing”

“Our inventories are rising faster than we like”

“Cost pressures are increasing while product availability remains a priority”
Traditional Decision Trade-offs Are Insufficient

Considering these complex tradeoffs requires changes to the Supply Chain Design

80% of your cost is locked in when you design your supply chain
Model building for continuous design

Traditional Modeling vs. Accelerated Modeling

- **Deliver Insights**
- **Run Scenarios**
- **Build and Validate Baseline**
- **Data Blending and Aggregation**
- **Data Cleansing**
- **Data Extraction**

**Time/Effort**
- Highly Manual
- Time Consuming
- Difficult to Maintain
- Requires Various Skills and Tools

**True Value Unlock**
- Automated Data Processes
- Faster Time to Decision
- Streamlines Model Builds
- All within Coupa Supply Chain

Living Data Model
Our Optimization is Powered by a Digital Twin
You can’t trust what you can’t test!

Data Sources
- ERP, TMS, Freight audit
- Taxes & Tariffs
- Supplier risk scores
- Carrier rates
- Emissions data
- Costs (sourcing, prod, distribution, fulfillment)
- Flat File Ingestion
- API Data Ingestion
- 3rd Party ETL

Outcomes / Use Cases
- Network Design
- Inventory Optimization
- Vehicle Routing
- Sourcing Strategies
- Cost-to-Serve
- and many more!!!

Physical Supply Chain Network

Digital Twin

Business Intelligence

Speed to...
✔️ Value✔️ Deploy✔️ Answer✔️ Evolve
Coupa Supply Chain Modeler Algorithms

An all-in-one system for end-to-end supply chain modeling

**Algorithms**

- **Network Optimization**
  Network Optimization, Greenfield Analysis, Cost-to-Serve, Infeasibility Diagnosis
- **Inventory Optimization**
  Safety Stock Optimization, Service Level Optimization, Rolling Horizon Modeling, Demand Analysis/Classification, Inventory Simulation
- **Transportation Optimization**
  Standard/Consolidation Optimization, Interleaved Optimization, Hub Optimization, Periodic Optimization, Backhaul Optimization
- **Simulation**
  Discrete Event Simulation
- **Model Complexity and Solve Time Prediction**
  Identify solve time range & model complexities
Powerful AI uncovers previously unidentified savings opportunities

**Prescriptions**
- Identifies node skipping, mode switching and volume consolidation opportunities (within business constraints)

**Baseline/Scenario model**
- Digital Twin of the physical supply chain and Cost to Serve data

**End-End Tradeoff Analysis**
- Overlay new prescriptions into the existing supply chain network for validation

**Cost Drivers**
- What are the reasons that are driving the cost reduction?

**Risk Analysis**
- Where are my potential risk spots in my network?

**Prioritized Scenarios**
- Potential savings through new prescriptions

**Node Skipping**
- Potential direct shipments in the network

**Mode Switching**
- Potential use of alternative modes in the network

**Volume Consolidation**
- Potential aggregation of products in a mode in the network
Humans + AI = Better than Humans or AI alone
Thank You!