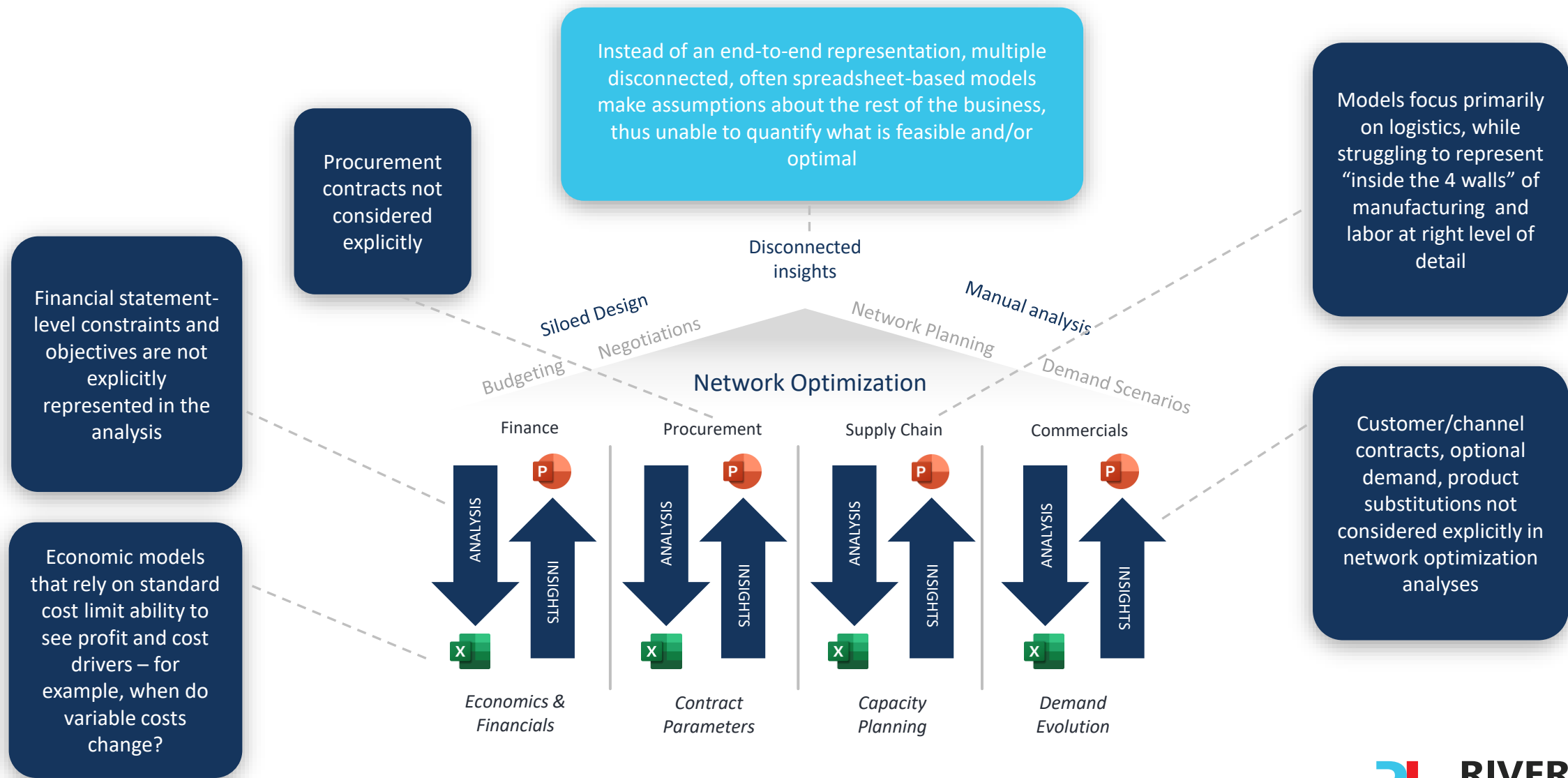


Value Chain Optimization (VCO)

Product Definition



The Underlying Causes of the Problem

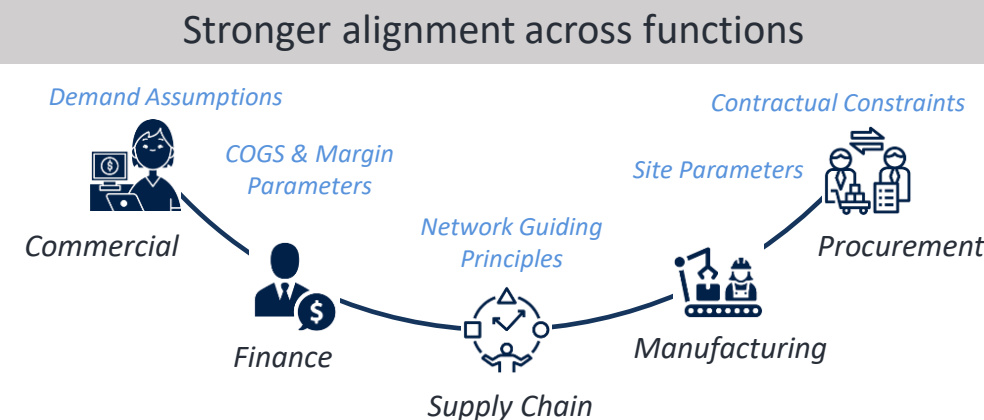


Value Chain Optimization Solution

Evaluate physical, commercial and financial factors to optimize different target functions through data-driven scenario analyses.

Stage	Scope
Logistic Network Design	<ul style="list-style-type: none">• Warehouse location/expansion/closure• Inbound/outbound distribution flow-paths/policies• NPI and channel evolution analyses• Inventory and working capital requirements
End-to-End Value Chain Optimization	<ul style="list-style-type: none">• Manufacturing footprint, capacity planning, near vs. off-shoring• Make vs. buy, production allocation, inventory planning• Supplier contract negotiations, volume allocations• Sustainability – CO2e objectives, constraints
Strategy & Financial Planning	<ul style="list-style-type: none">• Product/customer profitability, customer segment priorities• Financial forecasts, including transfer costs, roll-ups, taxes• Financial constraints, Capex/Opex allocation, financial objectives• Business Continuity Planning scenarios

Business Impact



Visibility on financials, risks and flows trade offs

Repeatable and scalable process

Speed to Value

Solution Approach

Data Integration

- Enterprise scale, bi-directional data integration via Azure Data Factory (ADF)
- Standard ADF connectors to SAP, Oracle, Snowflake, etc.
- Pre-configured data transformations and validations
- Data loading wizard




Digital Planning Twin™

- Configurable, drag and drop mixed integer optimization modeling
- Extended value chain
- Integrated financial and Economic modeling
- Multi-time period and multi-objective

Planning and decision-making

- Pre-defined workflow, alerts and visualizations
- Geolocation and distances calculation
- Multi-scenario analysis – including soon to include Monte-Carlo optimizations
- Role-based permissions

Value Chain Optimization Roadmap 2024 – Open AI

	Focus	Product Roadmap	Timeline*
Open AI Stage 1	AI Assistant - Change the way users can interact with EO+ across Use Cases using prompt-based natural language	<ul style="list-style-type: none">• Data Modification + Job Submission• Basic Decision Support• Scenario Management + Auditing• Querying & Search• Summarizing Results, Basic Analysis, Problem Diagnosis	 Q2-Q4 2024
Open AI Stage 2	Decision Support AI	<ul style="list-style-type: none">• Scenario Interpretation + Analysis• Scenario Differentiation + Comparison• Strategic Simulations + Stochastic Evaluations• Variable Optimization	 Q4 2024 onwards
Open AI Stage 3	Modeling Copilot Rules Engine Finetuned LLM	<ul style="list-style-type: none">• VCO Model Fine-tuning• Advanced Solve Diagnostics, automated tunings and configurations• Data Validation Rules Generation• Data Transformation Script Generation	 2025 onwards

* *estimated timeline*