ALPS
Advanced Logistics & Planning Solution

CLINICAL SUPPLY CHAIN CONTROL TOWER
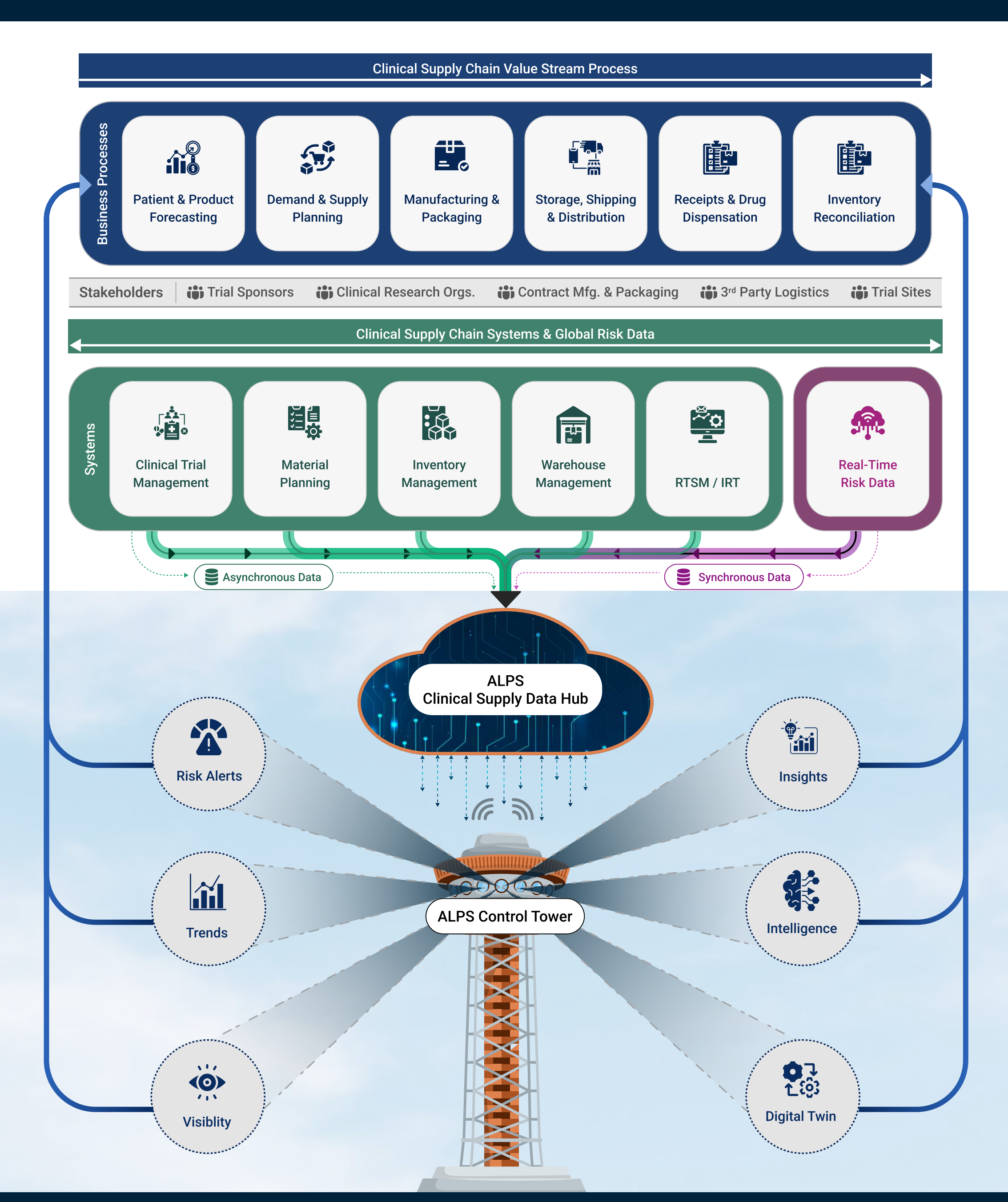Turn your R&D Supply Chain into a Competitive Advantage

BOSTON INSIGHTS
Powering Business Agility and Resilience

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ALPS (Advanced Logistics & Planning Solution)

Clinical Supply Chain Value Stream Process

Business Processes
- Patient & Product Forecasting
- Demand & Supply Planning
- Manufacturing & Packaging
- Storage, Shipping & Distribution
- Receipts & Drug Dispensation
- Inventory Reconciliation

Stakeholders | Trial Sponsors | Clinical Research Orgs. | Contract Mfg. & Packaging | 3rd Party Logistics | Trial Sites

Clinical Supply Chain Systems & Global Risk Data

Systems
- Clinical Trial Management
- Material Planning
- Inventory Management
- Warehouse Management
- RTSM / IRT
- Real-Time Risk Data

⟷ Asynchronous Data   ⟷ Synchronous Data

ALPS Clinical Supply Data Hub

ALPS Control Tower
- Risk Alerts
- Trends
- Visibility
- Insights
- Intelligence
- Digital Twin

ALPS

ALPS is an Integrated Analytics Platform, that unifies the data generated across the Clinical Supply Chain Value Stream and enables a frictionless and a resilient supply chain

Out-of-the-Box Features

Trial Supply Control Tower

01 Global R&D Assets & Study Portfolio Analysis
a. Personalized & Global R&D Assets Portfolio
b. Workbench for Study Analysis

02 End-to-End Supply Network Visibility
a. Inventory status at all nodes in the supply network
b. Risks at Depots, Sites and Countries

03 Investigational Sites 360°
a. Patient screening, enrollment, and up-coming visits
b. Site inventory and shipment status

04 Early Warning System
a. Unknown Risk Alerts in Real Time
b. Alerts for Known Risks based on business rules.

05 Comprehensive Risk Management
a. Global Risk Register for all risks
b. Study Risk Assessment

06 Material Planning Intelligence
a. Bill of Materials Traceability to Studies and Compounds
b. Scenario Planning based on Real Time Demand & Supply Data

Clinical Supply Chain
Challenges & ALPS

CHALLENGES

01 Limited Visibility into Supply Network
- Lacks Real-Time Visibility of Inventory Status
- Inability to track movement of Inventory

02 High Waste & Increasing Trial Costs
- Approx. 60% of IMP Inventory is wasted/ year
- Demand Variability Leads to Excess-Supply

03 Supply Chain Disruptions
- Business Continuity Risks (Known & Unknown)
- Product Supply Risks at Depots & Sites

04 Complex Demand Planning Scenarios
- High Variability in Demand
- Complex Protocol & Network Design

05 Complex & Risk Prone Logistics
- Trade & Regulatory Compliance
- Shelf-Life Management
- Special Storage Conditions & Cold Chain

06 Limited Agility, Flexibility & Scalability
- Fragmented Processes
- Siloed Data across the Value Stream
- Lack of Real-Time Insights

SOLUTIONS

01 End-to-End Supply Chain Visibility
- Digital Twin of Physical Supply Chain
- Inventory at Country, Depots & Sites

02 Monitoring Overages and Shortages
- Tracing Bill of Materials to Studies & Compounds
- Predictive Alerts for Excess Supply & Shortages

03 Early Warning System
- Natural Disasters, Geo-political & Public Health Risks
- Regulatory & Trade Compliance Risks

04 Demand & Supply Planning Intelligence
- Integrated Demand & Supply view
- Pooled Supplies Insights

05 Logistics Visibility & Risk Management
- Sensing of Emerging Risks Globally
- Tracking Site & Depot Shipments
- Risk Alerts based on Business Rules

06 Agility, Productivity & Scalability
- One Stop Shop Solution
- Digital Work-Bench
- Transparency & Stakeholder Collaboration

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