



*Building Global Readiness:
How Integrated Supply Chains Drive
Standardisation & Scale*

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The Globalisation Imperative

Global Clinical Trials Expansion

- Clinical trials now include diverse global populations, requiring harmonised frameworks across continents.

Complex Manufacturing Coordination

- Regional manufacturing sites coordinate cross-border transport of sensitive materials under strict conditions.

Market and Launch Pressures

- Simultaneous multi-region commercial launches demand early supply readiness and integrated platforms.

Strategic Necessity of Globalisation

- Integrated global approaches improve operational maturity and competitiveness in advanced therapies.



Investor and Regulator Expectations



Investors Expect:

- Reliable global operations
- Predictable timelines
- Scalability without cost/risk



Regulators Expect:

- Standardisation
- Data integrity
- Traceable, compliant workflows
- Product protection & viability

Today's Reality: A Fragmented Ecosystem



Regional Process Variation



Limited Data Connectivity



Vendor Landscape
Differentiation



Inconsistent Logistics
Networks



Operational Discrepancies
at Clinical Sites



Breaking Down Industry Silos

Breaking Sequential Silos

Industry silos from discovery to supply chain hinder global patient impact and require integrated consideration from early stages.

Early Integrated Design

Designing supply chains early, even pre-clinical, enables robust global delivery and smoother scale-up of therapies.

Global Coordination

Integration must consider cross-border regulations, temperature-sensitive logistics, and clinical site onboarding worldwide.

Integrated supply chains reduce risks, shorten development cycles, and improve patient access outcomes globally.



The Shift Towards Integration

Transition to Integrated Platforms

→ From isolated systems to unified, scalable end-to-end supply chain platforms.

Proactive Risk Management

→ Predictive analytics & real-time data enable proactive monitoring beyond reactive risk responses.

Lifecycle Visibility and Collaboration

→ Integrated platforms provide visibility and streamline collaboration across all therapy lifecycle stages.

Regulatory Compliance & Efficiency

→ Integration improves regulatory compliance, reduces costs, and enhances patient safety safeguards.

Enabling Global Scalability Through Standardisation

Standardised Integrated Platforms

Centralised platforms unify shipping, biostorage, training, and digital tools supporting global operational consistency.

Reducing Variability & Risk

Standardisation minimises variability and failure points, ensuring product quality and patient safety worldwide.

Global Compliance & Efficiency

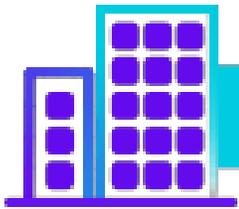
Repeatability and compliance lower costs, shorten timelines, and build regulator and investor confidence.

Predictive Analytics & Routing

Advanced analytics and routing tools optimise supply chains, anticipate disruptions, and maintain continuity.



Cross-Stakeholder Benefits of Integrated Supply Chains



For CDMOs

- Simplified operations
- Reduced variability
- Improved batch reliability
- Meet client & regulatory expectations



For Sponsors

- Visibility into global ops
- Faster decision making
- Quicker scale up
- Better launch radius



For Clinical Sites

- Clearer workflows
- Standardized equipment
- Reduced logistics
- Improved clinician efficiency
- Improved patient experience

Future State: A Global, Standardised Supply-Chain Ecosystem

Interoperable Global Platforms

Future supply chains will rely on fully interoperable global platforms enabling seamless data integration across all product stages.

Dynamic Manufacturing & Logistics

Manufacturing and logistics networks will adapt dynamically to regional demand, resources, and regulatory changes to ensure resilience.

Connected Ecosystem & Real-Time Sync

Fully connected ecosystems will provide adaptive routing, automated compliance, and real-time synchronization among all stakeholders.

Predictive Analytics & Risk Management

Unified data systems will enable predictive analytics to anticipate risks and improve patient access and commercial scaling.





Cryoport Systems

A Patient is Waiting.