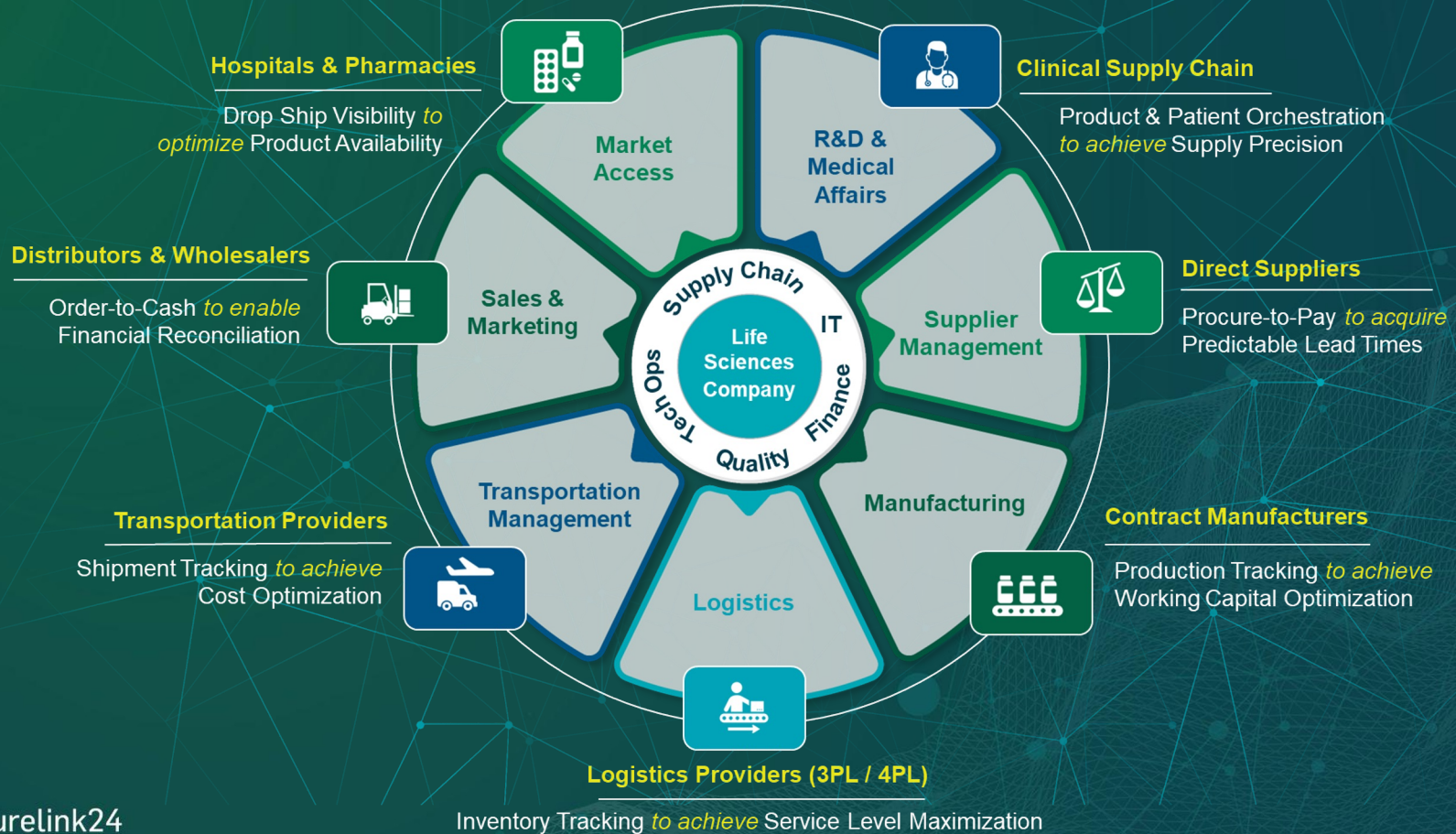


# Looking Forward: Direct Supply, Clinical Supply and Other Supply Chain Relationships

Bharath Sundararaman  
John Jacey



# End-to-End Digitalization of All Your Supply Chain Processes

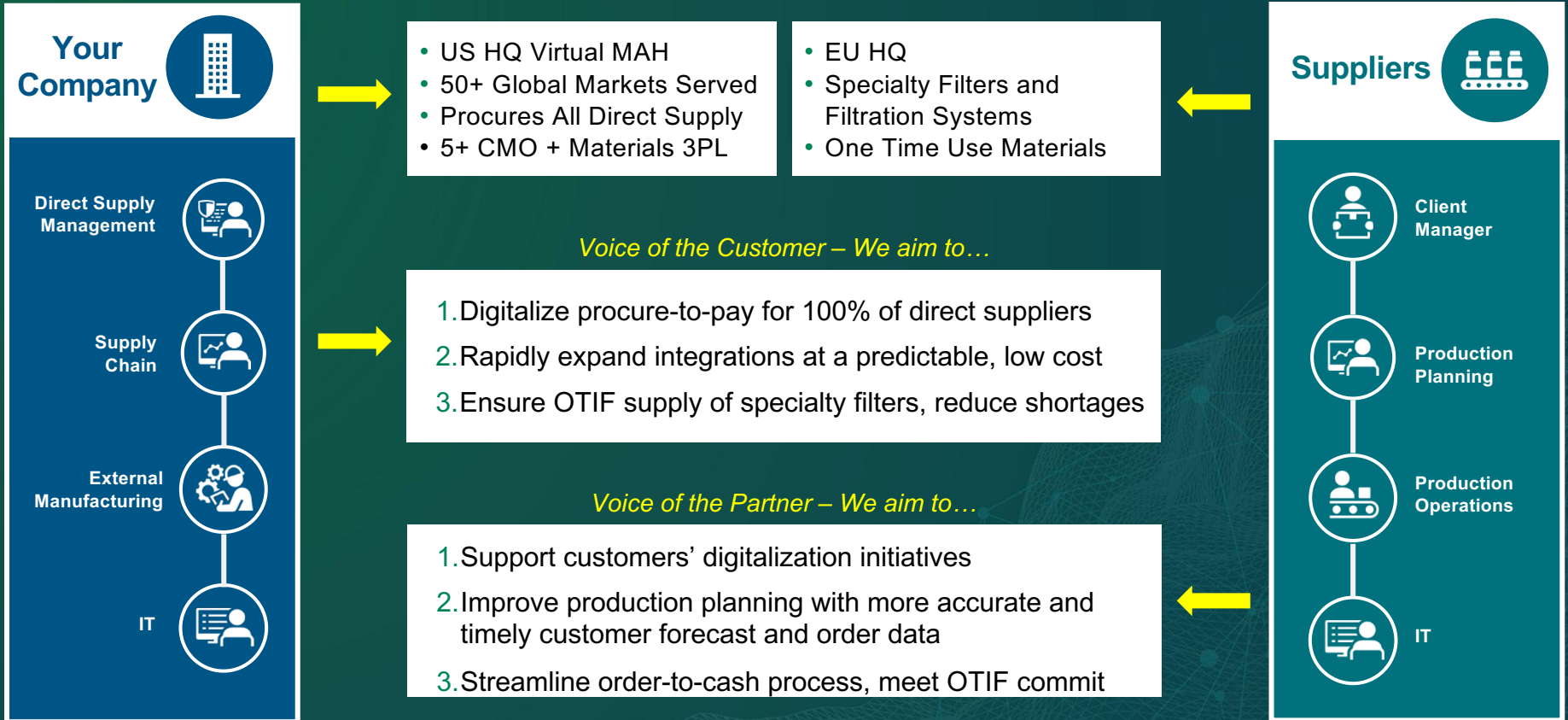




# Orchestrating Outcomes in Direct Supply

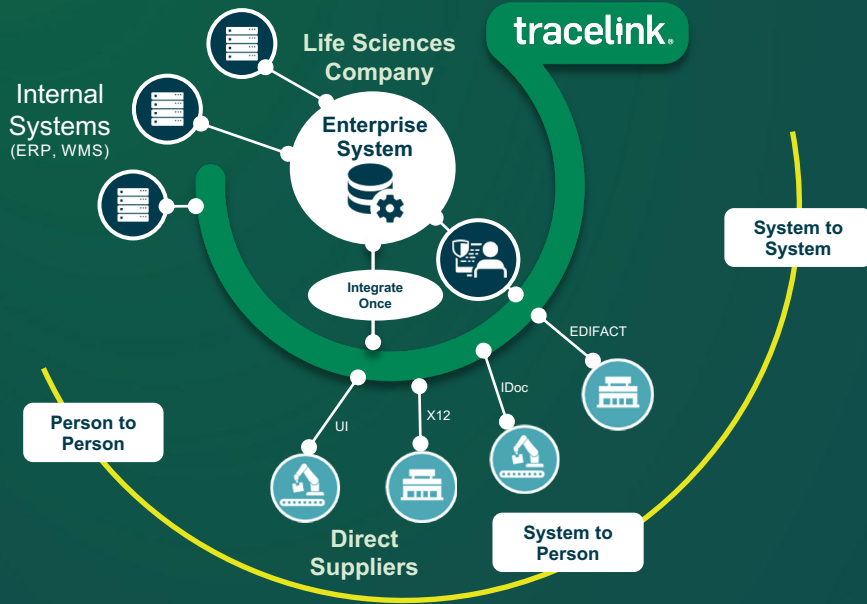


# Direct Supply Orchestration





# MINT for Direct Supply



## Integrate-Once™ for:

- Forecast Planning Schedule
- Forecast Planning Schedule Response
- Purchase Order
- PO Acknowledgement
- Advance Ship Notice
- Invoice
- Remittance Advice

# The Benefits of Direct Materials Supply Orchestration

## Use Case:

## Customer & Partner Business Value:



### Forecast Collaboration

- Forecast Planning Schedule with Release
- Forecast Planning Response

- Ensures alignment with direct materials suppliers to improve agility and reduces late or missed shipments.
- Forecast collaboration enables safety stock inventories to be reduced over time as supplier deliveries become more predictable and reliable.



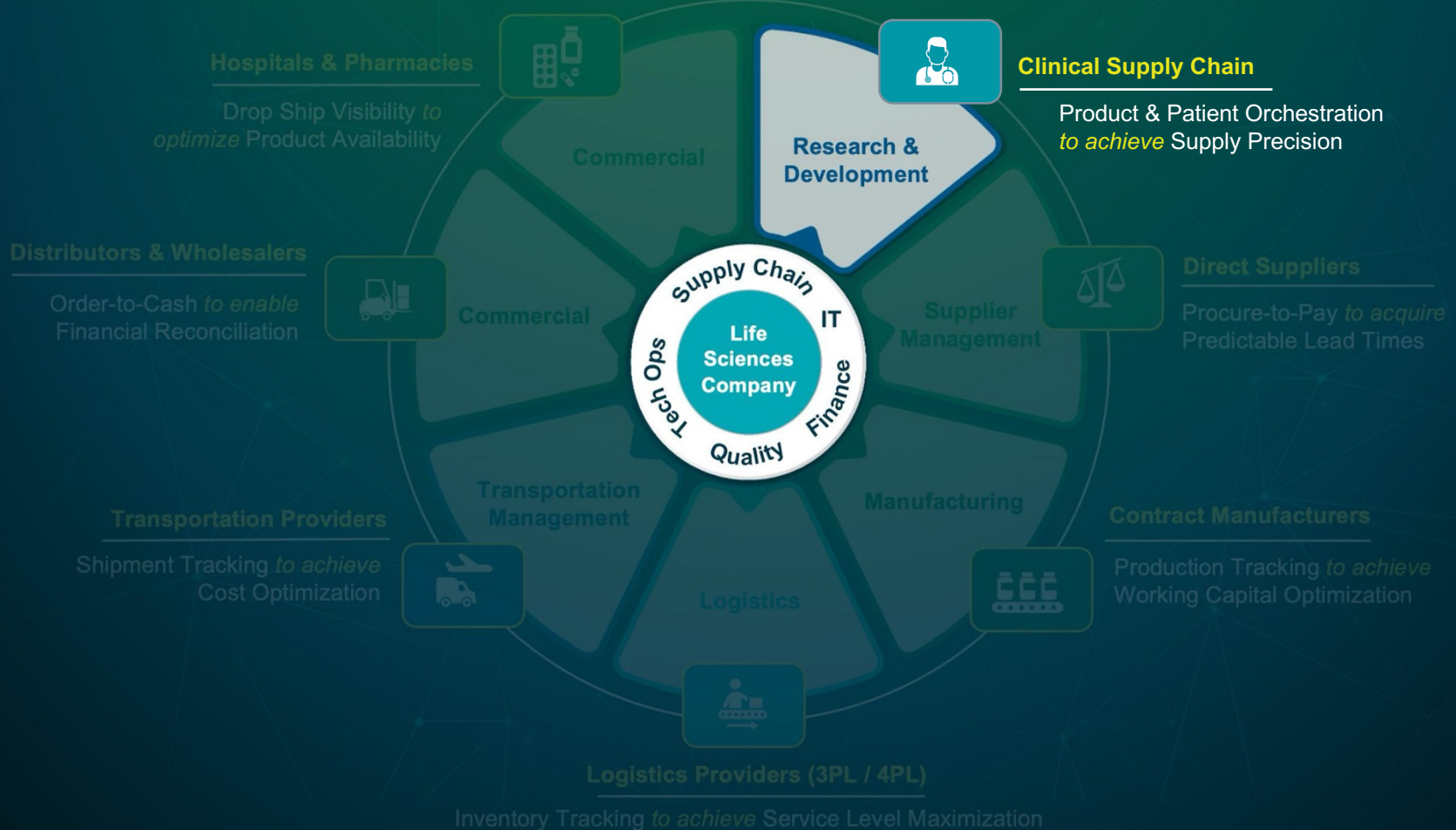
### Order Collaboration & Monitoring

- Purchase Order
- PO ACK
- Advance Ship Notice
- Invoice
- Remittance Advice

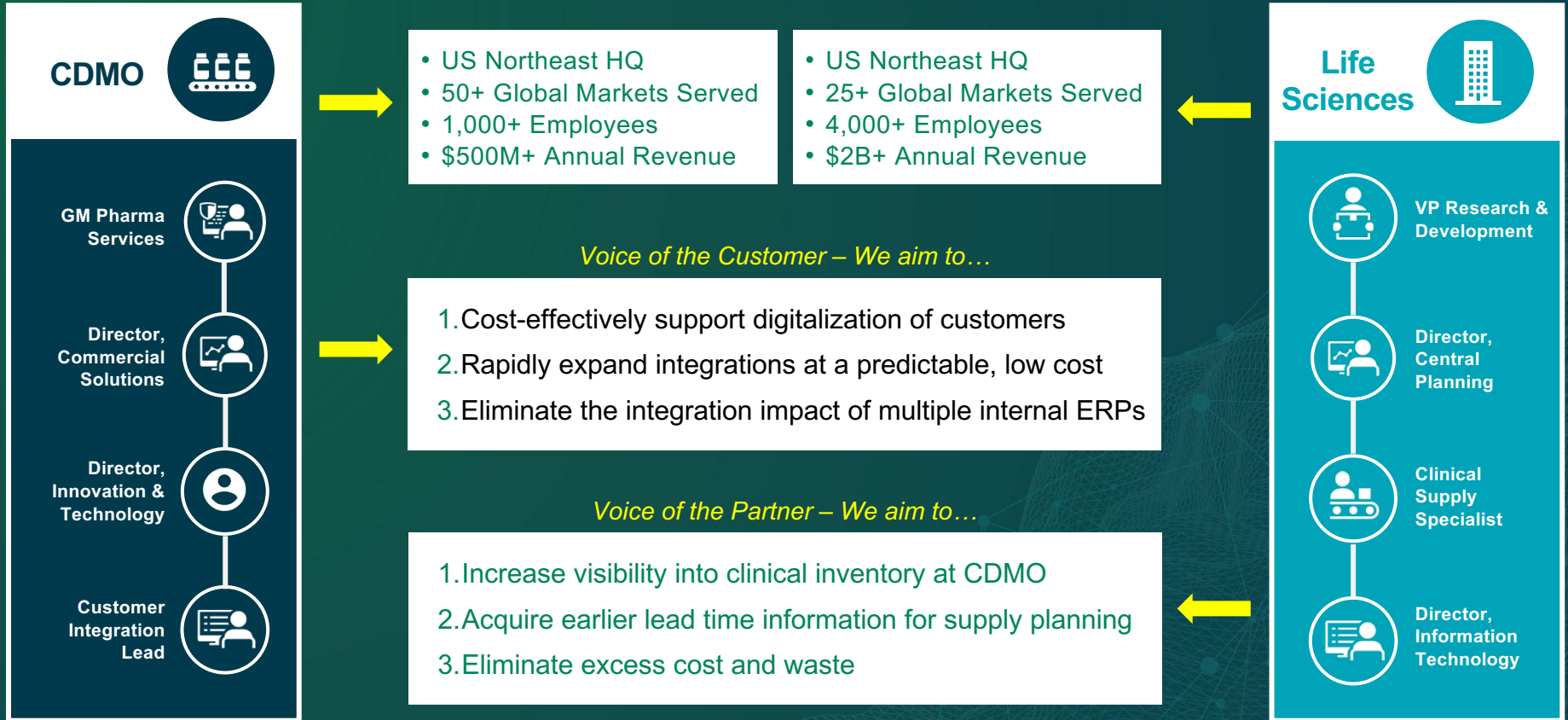
- Improves planning accuracy with real-time confirmation of PO quantities and due dates.
- Respond more quickly to demand changes and supply chain disruptions.
- Reduced effort to manage purchase orders which enables greater flexibility in order size and frequency which improves supply chain agility.
- Improve OTIF **from** Supplier and **to** Customer



# Orchestrating Outcomes in Clinical Supply Chain

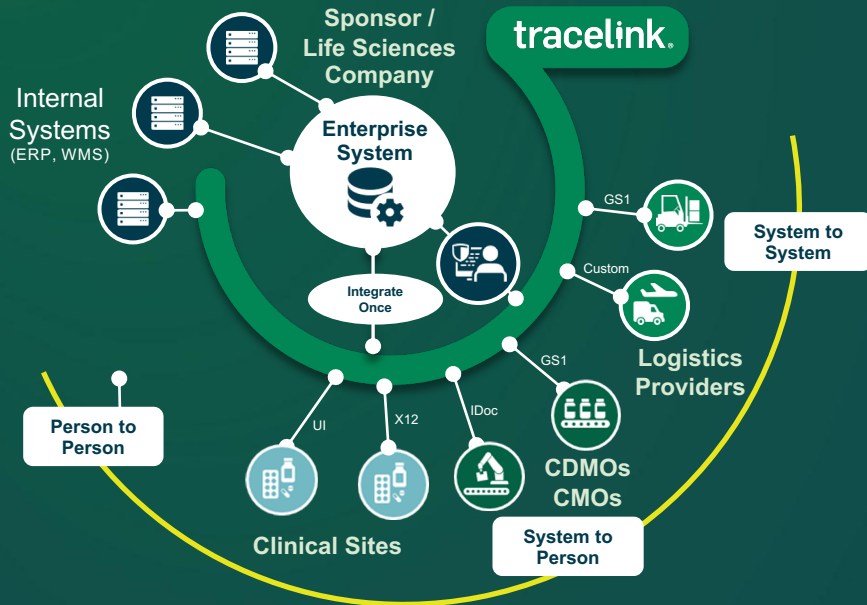


# Clinical Supply Chain Orchestration “in the Wild”





# MINT for Clinical Supply



## Integrate-Once™ for:

- Inventory Balance Request
- Inventory Balance Report
- Inventory Status (Release Status)
- Inventory Status (Kit Status Change)
- Ship Order Request
- Ship Order Acknowledgement
- Shipping Advice
- Advance Ship Notice (Despatch Advice)
- Receiving Advice
- Dispensing Advice
- Drug Return Order
- Destruction Confirmation

# The Benefits of Clinical Supply Orchestration

## Use Case

## Benefits of Orchestration



### Real-Time Inventory Management

- Inventory Balance
- Inventory Status (Release, Kit Status Change)
- Destruction Confirmation

- Improve clinical supply **planning and replenishment** with aligned inventory levels across CMO and depot sites
- Monitor stock levels at CMO and depot sites to ensure **availability** and **on-time supply** of clinical kits for trial subjects
- Manage **shelf-life and expiry** of materials across country-specific regulations
- Maintain continuous stock **visibility** to ensure sufficient supplies while **minimizing cost and waste** of investigational medicinal product



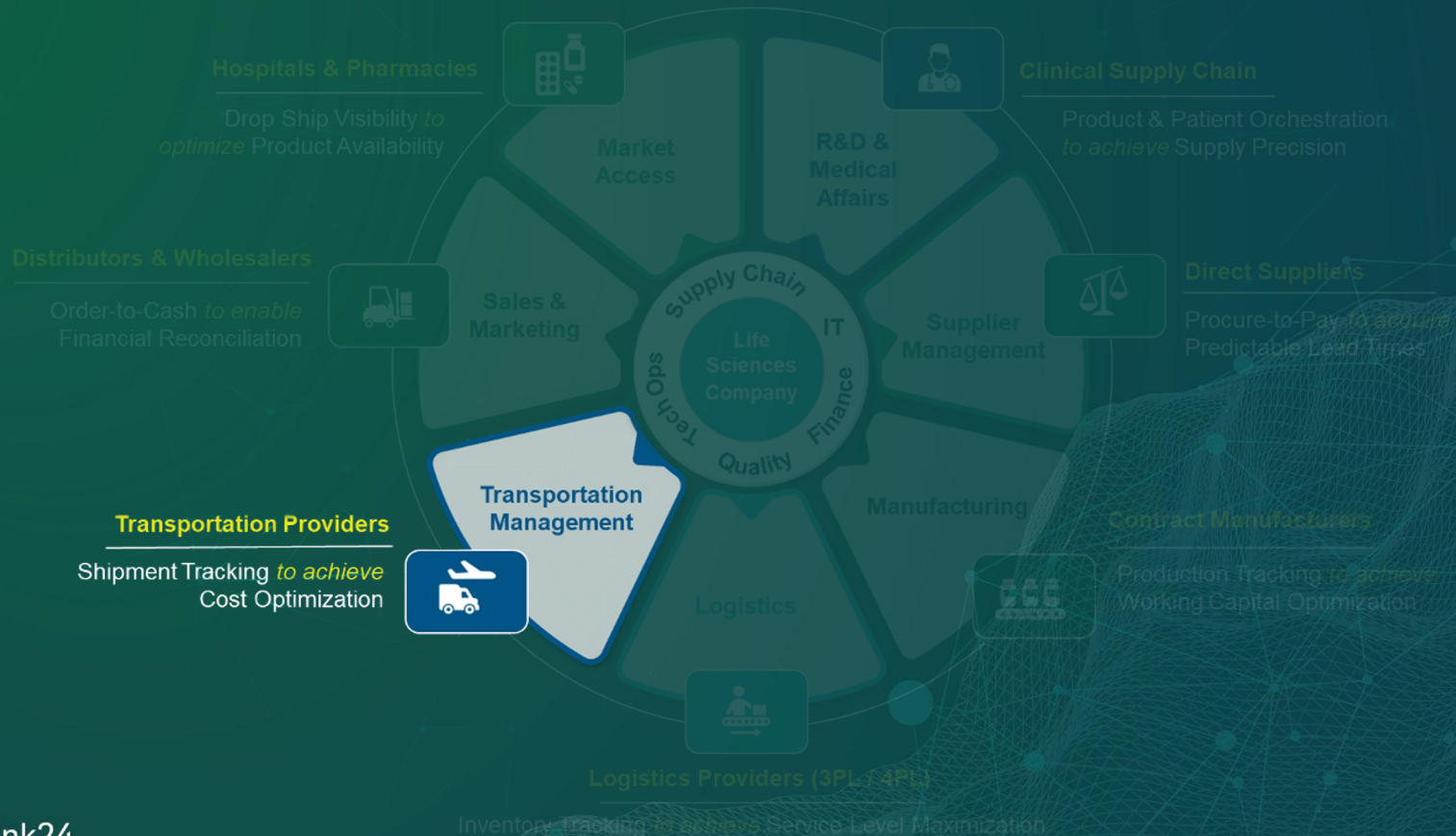
### Continuous Clinical Kit Visibility

- Ship Order and Advice
- Advance Ship Notice
- Receiving Advice
- Dispensing Advice
- Drug Return Order

- Manage **end-to-end distribution** from production to depot to clinical sites
- Maintain **full visibility** to clinical product transferred from CMOs to 3PLs
- Ensure **on-time supply** for trial subjects across treatment plan
- Ensure **clinical site preparedness** by providing confirmed quantities, tracking numbers, and delivery dates



# Orchestrating Outcomes in Transportation

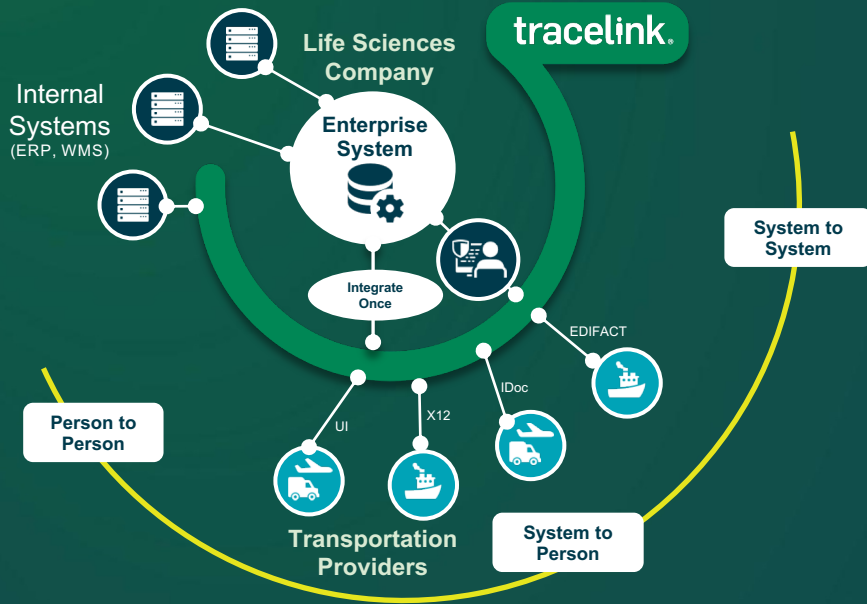


# Transportation Orchestration





# MINT for Transportation



## Integrate-Once™ for Multimodal Transportation for Air, Ocean, Rail and Motor Carriers:

- Transportation Booking Request
- Transportation Booking Confirmation
- Bill of Lading
- Manifest
- Waybill
- Routing Instructions
- Customs Documentation
- Shipment Status
- Invoice

# The Benefits of Transportation Orchestration

## Use Case:

## Value:



- **Transportation Booking Request**
- **Transportation Booking Confirmation**

- Electronically book carriers across land, sea, rail, and air with a single integration.
- Confirm carriers rapidly at the lowest freight rates..



- **Bill of Lading**
- **Manifest**
- **Waybill**
- **Routing Instructions**

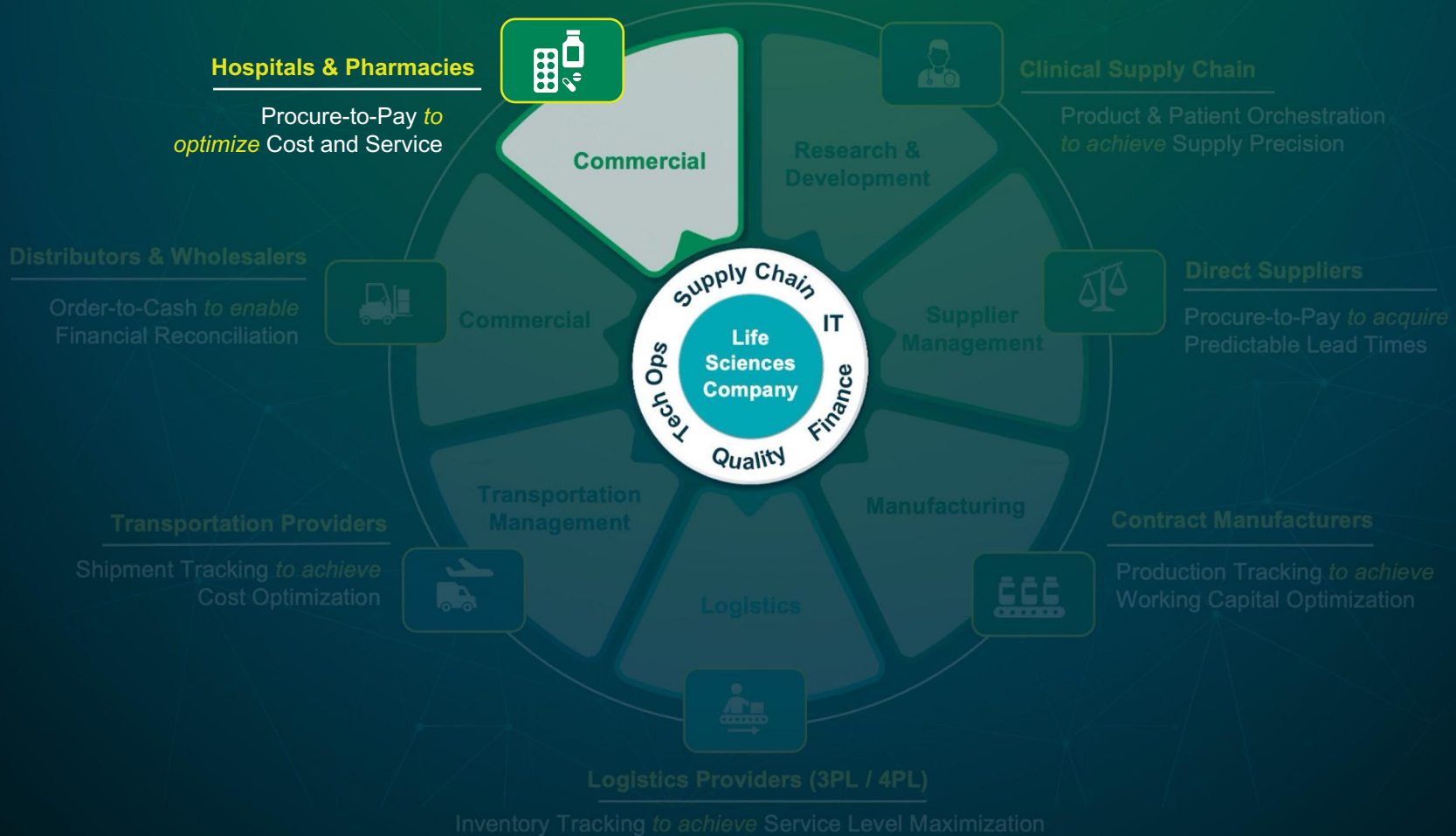
- Ensure carriers have accurate shipping documents to avoid delays.
- Exchange customs documents to ensure border crossings for international shipments are not quarantined.
- Provide instructions to streamline the logistic process, reduce friction and cost, and enhance relationships across the supply chain.



- **Shipment Status**
- **Invoice**

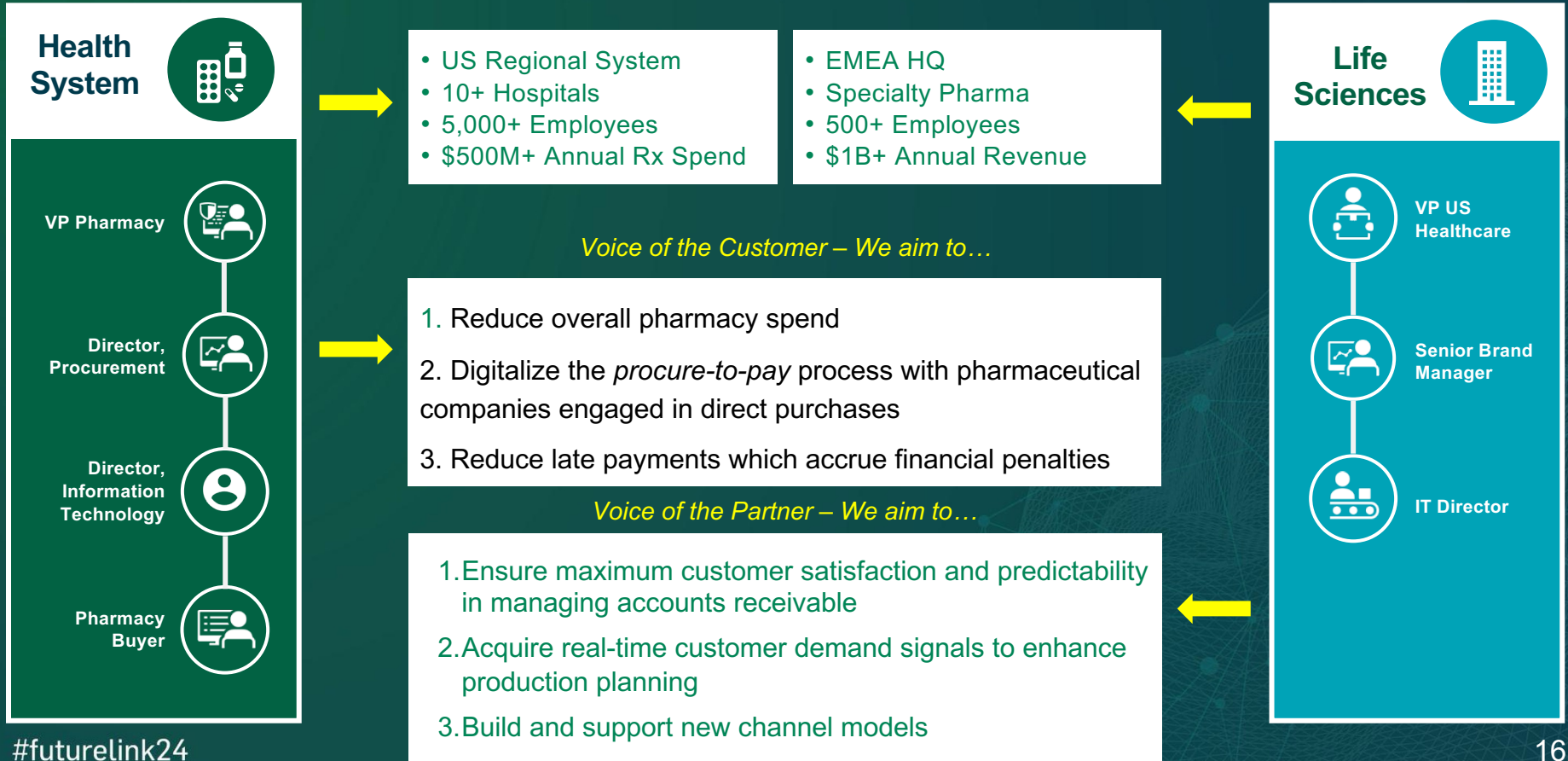
- Real-time shipment status to reduce customer service effort while improving customer satisfaction.
- Electronic invoicing to reduce the complexity of transportation billing.

# Orchestrating Outcomes in Digital Commerce

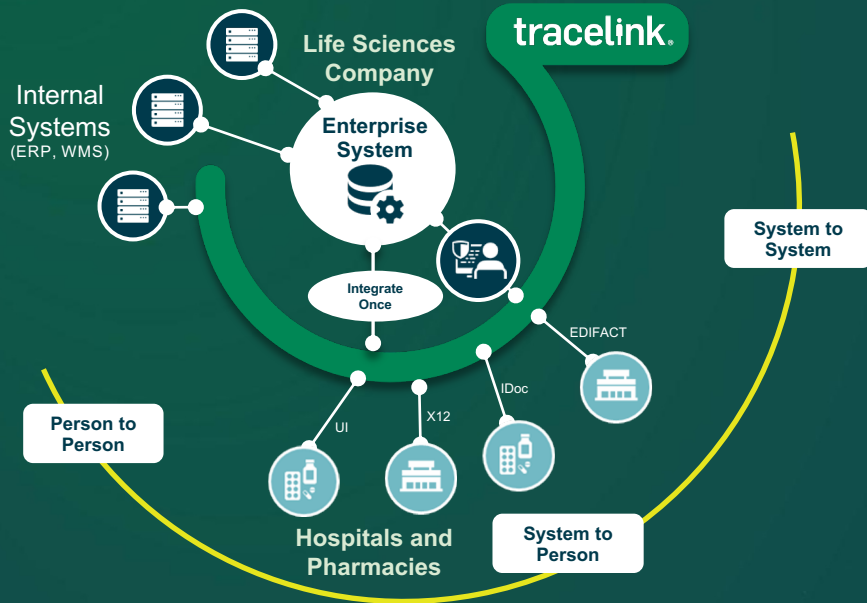




# Digital Commerce Orchestration “in the Wild”





# MINT for Digital Commerce



## Integrate-Once™ for:

- Price/Sales Catalog
- Purchase Order
- PO Acknowledgement
- Advance Ship Notice
- Invoice
- Remittance Advice
- Return Authorization/Notification
- Credit/Debit Adjustment
- Product Activity
- Forecast Planning Schedule / Response
  
- Dispenser Inventory
- eCommerce

# The Benefits of Digital Commerce Orchestration

Use Case	Benefits of Orchestration
 <h2 data-bbox="195 252 587 331">Order Collaboration &amp; Monitoring</h2> <ul data-bbox="195 342 517 554" style="list-style-type: none"><li>• PO / PO Ack</li><li>• Advance Ship Notice</li><li>• Invoice</li><li>• Remittance Advice</li><li>• Returns Authorization</li><li>• Credit/Debit Adjustment</li></ul>	<ul data-bbox="639 270 1812 528" style="list-style-type: none"><li>• Improve <b>planning accuracy</b> with real-time confirmation of PO quantities and due dates</li><li>• <b>Reduce work</b> in managing purchase orders, enabling greater flexibility in order size and frequency to improve <b>supply chain agility</b></li><li>• <b>Improve timeliness and accuracy</b> of procure-to-pay and financial reconciliation processes</li></ul>
 <h2 data-bbox="195 642 510 678">Demand Planning</h2> <ul data-bbox="195 689 568 751" style="list-style-type: none"><li>• Product Activity</li><li>• Forecast Planning Schedule</li></ul>	<ul data-bbox="639 620 1831 1009" style="list-style-type: none"><li>• Ensure alignment with suppliers to improve <b>planning agility</b> and <b>reduce late or missed shipments</b></li><li>• Improve collaboration on forecasts, <b>increasing predictability</b> and <b>reliability</b> of supplier deliveries while reducing safety stock inventory</li><li>• <b>Reduce risk of out-of-stocks</b> and product delays through improved planning based on demand and inventory visibility</li><li>• Enter into new <b>collaborative commercial channel relationships</b> such as ecommerce, vendor management inventory (VMI) to create win-win for both parties</li></ul>



# Call to Action

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- Share your feedback on these use cases and how it applies to your business
- Schedule a meeting with your TraceLink account executive to discover how MINT can help with other unique and emerging use cases
- Stop by the Product and Solution Fair to see MINT live.

