



Changing role of 3PL in today's tech-enabled value chain

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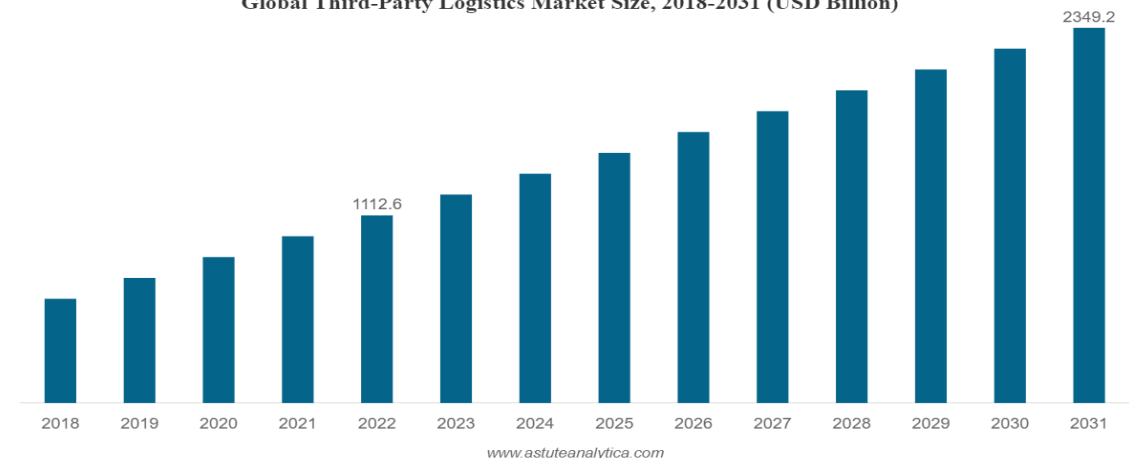




Market Size and Trends

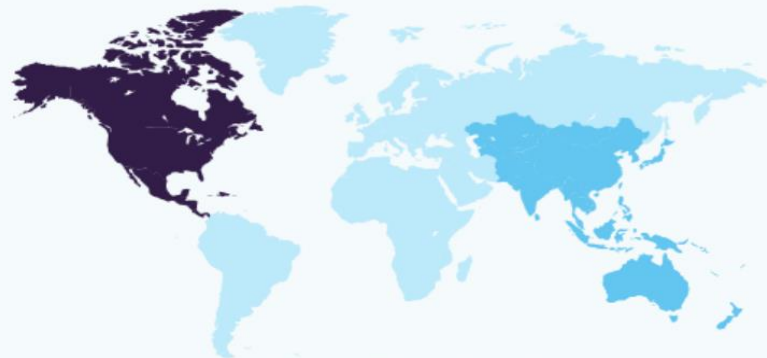
- Global 3PL market was valued at **\$1.1 trillion** in 2022 and will grow at **CAGR 8.7%** during the forecast period largely driven by the **increased demand for integrated supply chain solutions** and services - ***Astute Analytica***
- UAE size is **\$5.86 billion** & is anticipated to register a **CAGR of over 9.5%** during 5 year period
- Fragmented market: The Top Five 3PL Players Hold Less than **23%** Market Share
- The competition in the market is primarily driven by traditional factors such as ***price, quality of service, innovation, and customer service.***
- **Trends in the global 3PL market**
 - Automation
 - Adoption of data analytics
 - Sustainable practices
 - Digitalization
 - Cloud computing
 - Artificial intelligence (AI)

Global Third-Party Logistics Market Size, 2018-2031 (USD Billion)



Third-party Logistics Market trends by region

GRAND VIEW RESEARCH



● Largest Market ● Fastest Growing Market

Source: www.grandviewresearch.com

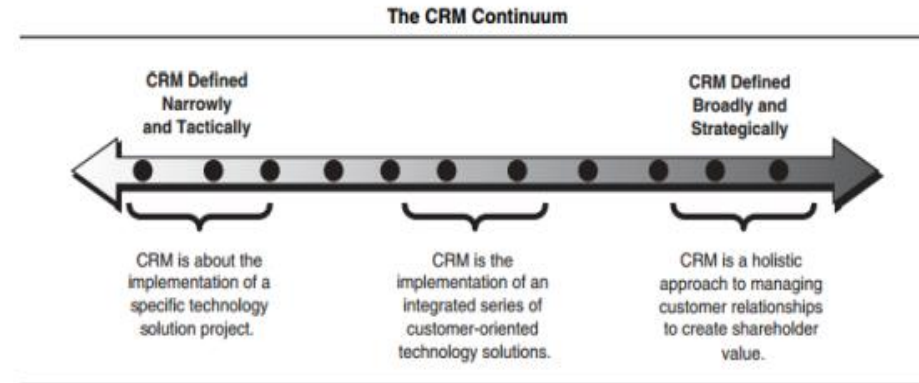
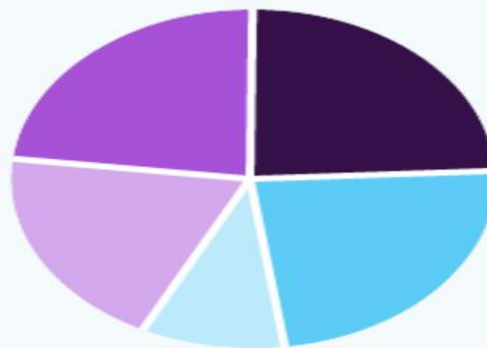


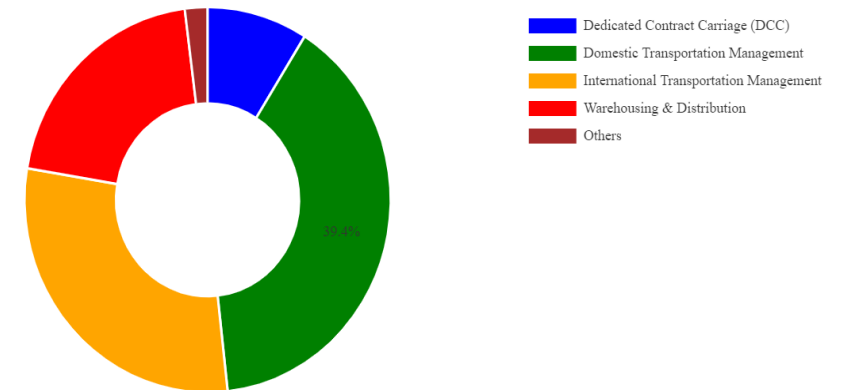
Figure 2. The CRM continuum (Payne and Frow, 2005)

Global Third-party Logistics Market share, by end use, 2022 (%)



● Manufacturing ● Retail ● Healthcare ● Automotive ● Others

Global Third-Party Logistics Market By Services, 2022



www.astuteanalytica.com

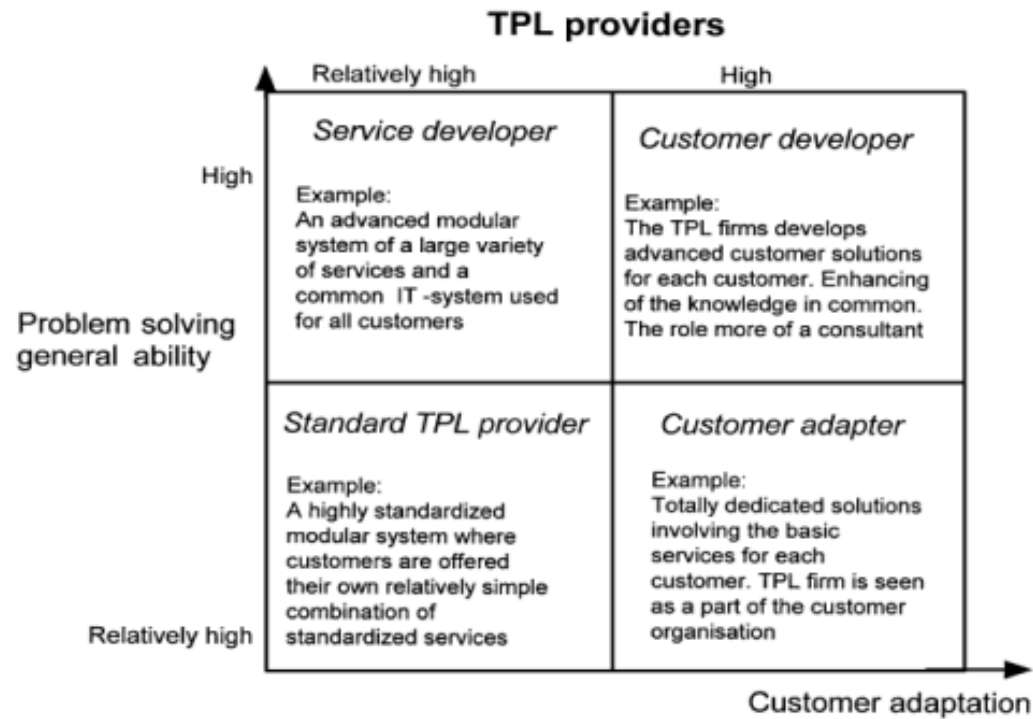
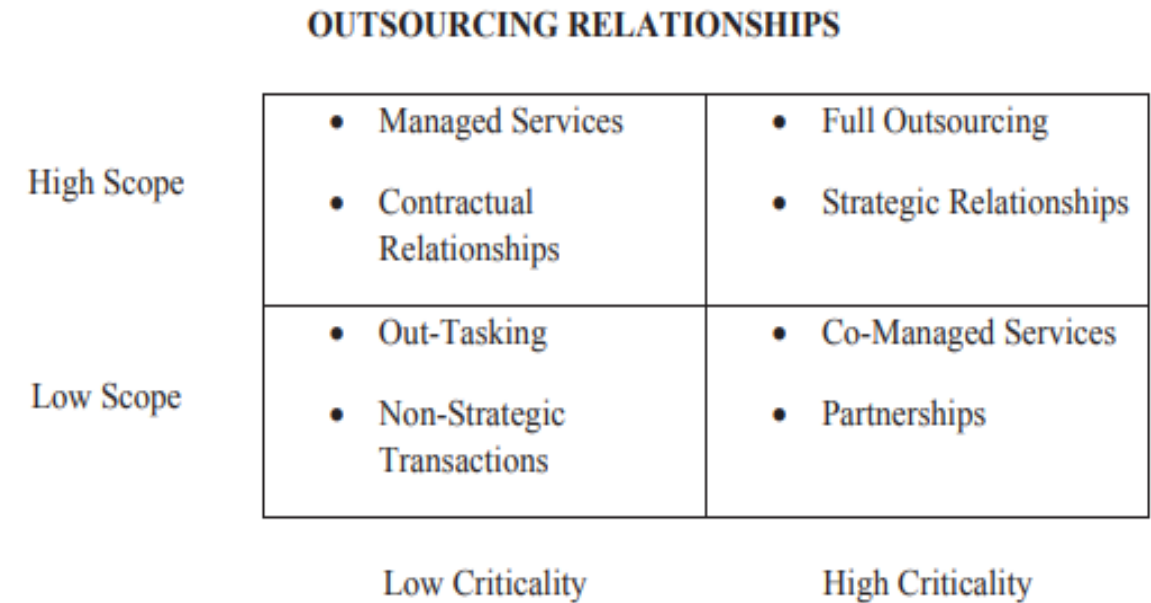


Figure 1. The classification of TPL provider (Hertz and Alfredsson, 2003)

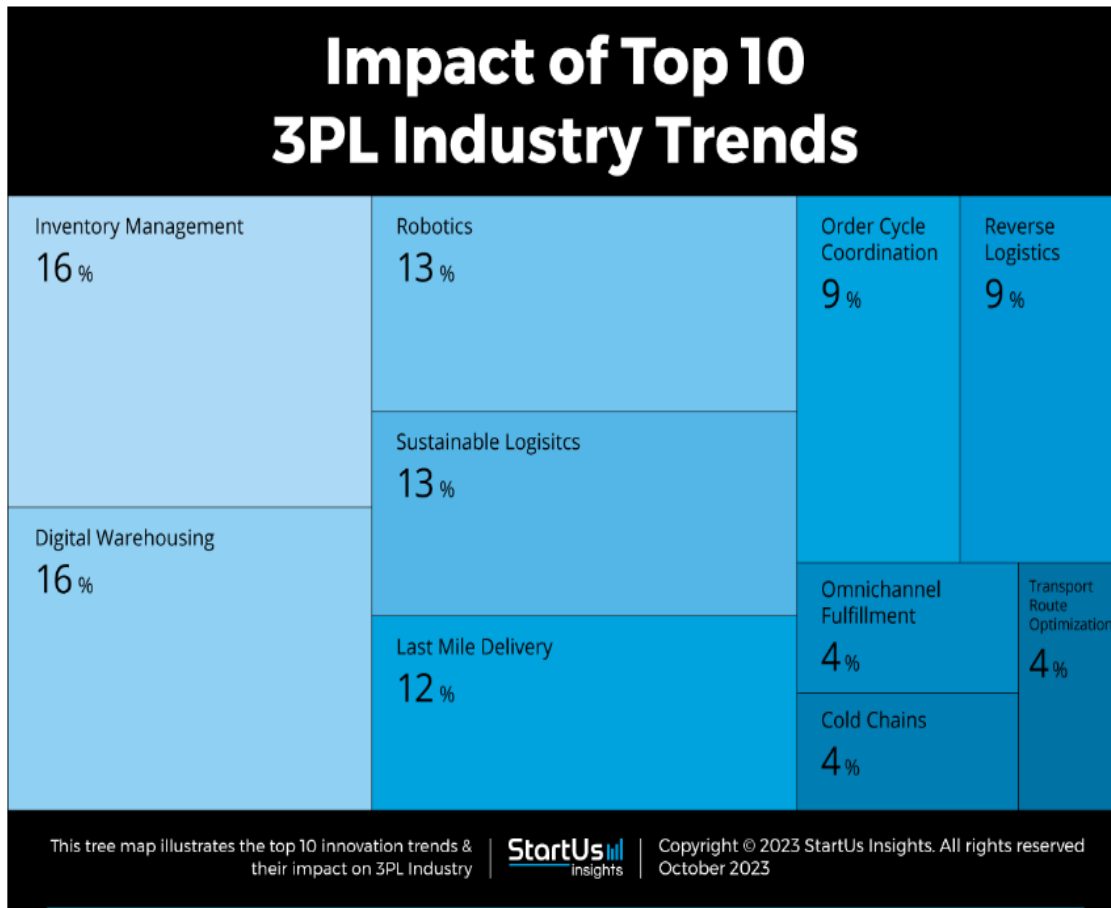
Figure 2: Outsourcing relationships.



Note: Adapted from Sanders et al. (2007).



Trends and UAE focus



UAE Highlights for 3PL industry

- Government policies, initiatives and investment benefits
- Ecommerce plays a vital role in driving the market and is expected to account for 7.0% of total retail spending in the current year
- Automated material handling, GPS and RFID enabled devices increases demand for logistics services
- Modernization of ports, freight terminals and smart solutions in customs and free zones
- Growing integration of logistics with technology further fuels growth in this sector

Research and Markets



- **Inventory Management**
- **IoT sensors, predictive ML** and **cloud-based inventory management** are addressing the bottlenecks in modern logistics processes through real-time inventory tracking, automated reconciliation processes, and predictive stock-level optimization
- **Digital Warehousing**
- **Automated storage and retrieval, augmented reality-based quick item location, real-time analytics, digital twin.** This maximizes space utilization and enhance the accuracy and speed of order processing, improving operational efficiency
- **Robotics**
- Addresses issues by **integrating with advanced sensors** to streamline inventory handling and minimize human effort. **Cobots** work alongside humans to enable faster picking processes while ensuring a high degree of precision. Besides, advanced sorting robots equipped with machine vision identify, pick, and sort items at speeds surpassing human capabilities.



- **Sustainable Logistics**

- Implementing innovations such as **eco-friendly packaging materials** sourced from biodegradable or recycled origins, thereby minimizing landfill contributions. **Electric and hybrid vehicles** reduces greenhouse gas emissions.
- Additionally, sustainable warehouse designs emphasize **energy efficiency and use renewable energy** sources to reduce the carbon footprint of storage operations. Through these sustainability-focused innovations, the 3PL industry is minimizing its environmental impact and also aligning with the growing demand for green supply chain practices.

- **Last Mile Delivery**

- **Electric cargo bikes** and delivery **drones** are circumventing traffic issues and ensuring on-time deliveries with a reduced carbon footprint. **Smart locker systems** facilitate recipients to collect flexibly, reducing the amount of failed deliveries.
- **AI-empowered software** also pinpoints delivery windows by sifting through real-time traffic metrics to keep consumers informed and improve first-time delivery success rates.



- **Omnichannel Fulfillment**

- Solve complexities through **advanced software platforms** that facilitate real-time inventory visibility across all channels. They ensure synchronized stock levels through electronic data interchange (**EDI**) systems to ensure timely and accurate omnichannel order processing.
- **Predictive analytics** tools forecast demand variations across channels to enable proactive inventory allocation. **Unified communication systems** further ensure consistent brand messaging and customer service.

- **Cold Chains**

- **Advanced temperature monitoring systems**, equipped with IoT sensors provides real-time tracking and alerts, ensuring that products remain within desired temperature thresholds during storage and transport.
- Systems use **AI-driven predictive analytics** to identify potential temperature breaches based on external factors like weather patterns. New packaging solutions maintain stable internal temperatures for extended durations.



- **Transport Route Optimization**

- Use data from ***traffic patterns, roadworks, and disruptions*** to reduce the impact on delivery efficiency and customer satisfaction.
- **Advanced software platforms** combine AI and machine learning to analyze **real-time traffic conditions and historical data** to determine the most efficient and time-saving routes. These systems also dynamically adjust routes in real-time based on emerging disruptions or changing priorities. Additionally, they **reduce carbon footprints** by optimizing fuel consumption and promoting sustainable operations



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THANK YOU