

Global Physical Internet (PI) Market 2025 by Company, Regions, Type and Application, Forecast to 2031

<https://marketpublishers.com/r/P9693F51E768EN.html>

Date: July 2025

Pages: 124

Price: US\$ 3,480.00 (Single User License)

ID: P9693F51E768EN

Abstracts

According to our (Global Info Research) latest study, the global Physical Internet (PI) market size was valued at US\$ million in 2024 and is forecast to a readjusted size of USD million by 2031 with a CAGR of %during review period.

The Physical Internet (PI) is a concept or a vision for the future of logistics that describes a new way to organize the flow of goods through a highly interconnected and interoperable logistics network. It is not a physical or tangible product or technology that can be classified into a specific type.

PI concept involves the use of advanced technologies, including Internet of Things (IoT), artificial intelligence (AI), blockchain, and other digital tools, to create a seamless flow of goods through modular, standardized, and open logistics spaces and networks.

In transportation, the Physical Internet refers to the combination of digital transportation networks that are deploying to replace actual road networks. The Physical Internet (PI) is a new boundary-spanning area of research and practice that seeks to address this grand challenge. The aim of the PI is to optimize logistics and SCM processes so as to create more efficient, effective and sustainable supply chains (SCs)

The global Physical Internet (PI) market refers to the emerging concept and network of interconnected physical and digital logistics infrastructure that aims to optimize the global movement of goods, materials, and information. The PI concept is inspired by the digital internet and aims to revolutionize the way goods are transported, stored, and distributed in a more efficient, sustainable, and coordinated manner.

Here are some key insights into the global Physical Internet market:

Market Size and Growth: The Physical Internet concept is still in its early stages of development, and as such, the market size is difficult to quantify accurately. However, the concept has been gaining traction in various industries and is expected to grow significantly in the coming years as technology adoption and infrastructure development progress.

Key Components of the Physical Internet: The Physical Internet is comprised of various components, including interconnected logistics hubs, standardized modular containers, intelligent logistics systems, real-time data exchange platforms, and advanced analytics and optimization algorithms. These components work together to enable seamless and efficient movement of goods across the entire supply chain.

Benefits of the Physical Internet: The adoption of the Physical Internet has the potential to bring several benefits to the global supply chain. These include improved transportation efficiency, reduced congestion and emissions, increased resource utilization, enhanced supply chain visibility and traceability, reduced inventory holding costs, and greater overall sustainability.

Technological Enablers: The successful implementation of the Physical Internet relies on the integration of various advanced technologies, such as Internet of Things (IoT), big data analytics, artificial intelligence, blockchain, and autonomous vehicles. These technologies enable real-time tracking, intelligent decision-making, dynamic routing, and overall optimization of logistics operations.

Industry Applications: The Physical Internet concept can be applied across various industries, including retail, e-commerce, manufacturing, healthcare, and logistics. It is particularly relevant for industries that rely heavily on supply chains and transportation networks.

Adoption Challenges: The implementation of the Physical Internet faces certain challenges, including the need for standardization and collaboration among various stakeholders, the required investment in infrastructure and technology, regulatory and legal considerations, and the change management required to transition from traditional supply chain models to the PI paradigm.

Global Initiatives and Pilot Projects: Several countries and organizations around the world have recognized the potential of the Physical Internet and have launched initiatives and pilot projects to explore its feasibility and benefits. These projects aim to

test and refine the concept, gather data, and validate the potential economic and environmental impacts.

Key Players and Stakeholders: The development and implementation of the Physical Internet involve collaboration among stakeholders from various sectors, including logistics service providers, transportation companies, infrastructure providers, technology developers, government agencies, and academic institutions. Collaboration and partnerships among these stakeholders are crucial to realizing the full potential of the Physical Internet.

The global Physical Internet market holds immense potential to transform the way goods are transported and logistics operations are managed globally. The concept aims to optimize resource utilization, reduce transportation inefficiencies, and improve the overall sustainability of supply chains. As technology advances and adoption increases, we can expect further growth and development in this market, ultimately leading to a more interconnected and efficient global logistics network. The global Physical Internet (PI) market refers to the emerging concept and network of interconnected physical and digital logistics infrastructure that aims to optimize the global movement of goods, materials, and information. The PI concept is inspired by the digital internet and aims to revolutionize the way goods are transported, stored, and distributed in a more efficient, sustainable, and coordinated manner.

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This report is a detailed and comprehensive analysis for global Physical Internet (PI) market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Physical Internet (PI) market size and forecasts, in consumption value (\$ Million), 2020-2031

Global Physical Internet (PI) market size and forecasts by region and country, in consumption value (\$ Million), 2020-2031

Global Physical Internet (PI) market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2020-2031

Global Physical Internet (PI) market shares of main players, in revenue (\$ Million), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Physical Internet (PI)

To forecast future growth in each product and end-use market

To forecast future factors affecting the marketplace

This report profiles key players in the global Physical Internet (PI) market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Amazon, UPS, IBM, Maersk, Flexport, XPO Logistics, Kuehne + Nagel, Deutsche Post DHL Group, AmeriCold Logistics LLC, Mercedes-Benz Group AG, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market segmentation

Physical Internet (PI) market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Planning and Consulting

Integration and Deployment

Support and Maintenance

Market segment by Application

Retail & E-Commerce

Transportation & Logistics

Pharmaceutical & Health

Manufacturing

Automotive

Aerospace

Defense

Market segment by players, this report covers

Amazon

UPS

IBM

Maersk

Flexport

XPO Logistics

Kuehne + Nagel

Deutsche Post DHL Group

AmeriCold Logistics LLC

Mercedes-Benz Group AG

SF Express

Yamato Logistics Ltd

DHL

FedEx Corporation

Velove Bikes AB

MIXMOVE

Market segment by regions, regional analysis covers
North America (United States, Canada and Mexico)
Europe (Germany, France, UK, Russia, Italy and Rest of Europe)
Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)
South America (Brazil, Rest of South America)
Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Physical Internet (PI) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Physical Internet (PI), with revenue, gross margin, and global market share of Physical Internet (PI) from 2020 to 2025.

Chapter 3, the Physical Internet (PI) competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2020 to 2031

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2020 to 2025. and Physical Internet (PI) market forecast, by regions, by Type and by Application, with consumption value, from 2026 to 2031.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Physical Internet (PI).

Chapter 13, to describe Physical Internet (PI) research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Classification of Physical Internet (PI) by Type

1.3.1 Overview: Global Physical Internet (PI) Market Size by Type: 2020 Versus 2024 Versus 2031

1.3.2 Global Physical Internet (PI) Consumption Value Market Share by Type in 2024

1.3.3 Planning and Consulting

1.3.4 Integration and Deployment

1.3.5 Support and Maintenance

1.4 Global Physical Internet (PI) Market by Application

1.4.1 Overview: Global Physical Internet (PI) Market Size by Application: 2020 Versus 2024 Versus 2031

1.4.2 Retail & E-Commerce

1.4.3 Transportation & Logistics

1.4.4 Pharmaceutical & Health

1.4.5 Manufacturing

1.4.6 Automotive

1.4.7 Aerospace

1.4.8 Defense

1.5 Global Physical Internet (PI) Market Size & Forecast

1.6 Global Physical Internet (PI) Market Size and Forecast by Region

1.6.1 Global Physical Internet (PI) Market Size by Region: 2020 VS 2024 VS 2031

1.6.2 Global Physical Internet (PI) Market Size by Region, (2020-2031)

1.6.3 North America Physical Internet (PI) Market Size and Prospect (2020-2031)

1.6.4 Europe Physical Internet (PI) Market Size and Prospect (2020-2031)

1.6.5 Asia-Pacific Physical Internet (PI) Market Size and Prospect (2020-2031)

1.6.6 South America Physical Internet (PI) Market Size and Prospect (2020-2031)

1.6.7 Middle East & Africa Physical Internet (PI) Market Size and Prospect (2020-2031)

2 COMPANY PROFILES

2.1 Amazon

2.1.1 Amazon Details

2.1.2 Amazon Major Business

- 2.1.3 Amazon Physical Internet (PI) Product and Solutions
- 2.1.4 Amazon Physical Internet (PI) Revenue, Gross Margin and Market Share
(2020-2025)
- 2.1.5 Amazon Recent Developments and Future Plans
- 2.2 UPS
 - 2.2.1 UPS Details
 - 2.2.2 UPS Major Business
 - 2.2.3 UPS Physical Internet (PI) Product and Solutions
 - 2.2.4 UPS Physical Internet (PI) Revenue, Gross Margin and Market Share
(2020-2025)
 - 2.2.5 UPS Recent Developments and Future Plans
- 2.3 IBM
 - 2.3.1 IBM Details
 - 2.3.2 IBM Major Business
 - 2.3.3 IBM Physical Internet (PI) Product and Solutions
 - 2.3.4 IBM Physical Internet (PI) Revenue, Gross Margin and Market Share
(2020-2025)
 - 2.3.5 IBM Recent Developments and Future Plans
- 2.4 Maersk
 - 2.4.1 Maersk Details
 - 2.4.2 Maersk Major Business
 - 2.4.3 Maersk Physical Internet (PI) Product and Solutions
 - 2.4.4 Maersk Physical Internet (PI) Revenue, Gross Margin and Market Share
(2020-2025)
 - 2.4.5 Maersk Recent Developments and Future Plans
- 2.5 Flexport
 - 2.5.1 Flexport Details
 - 2.5.2 Flexport Major Business
 - 2.5.3 Flexport Physical Internet (PI) Product and Solutions
 - 2.5.4 Flexport Physical Internet (PI) Revenue, Gross Margin and Market Share
(2020-2025)
 - 2.5.5 Flexport Recent Developments and Future Plans
- 2.6 XPO Logistics
 - 2.6.1 XPO Logistics Details
 - 2.6.2 XPO Logistics Major Business
 - 2.6.3 XPO Logistics Physical Internet (PI) Product and Solutions
 - 2.6.4 XPO Logistics Physical Internet (PI) Revenue, Gross Margin and Market Share
(2020-2025)
 - 2.6.5 XPO Logistics Recent Developments and Future Plans

2.7 Kuehne + Nagel

2.7.1 Kuehne + Nagel Details

2.7.2 Kuehne + Nagel Major Business

2.7.3 Kuehne + Nagel Physical Internet (PI) Product and Solutions

2.7.4 Kuehne + Nagel Physical Internet (PI) Revenue, Gross Margin and Market Share (2020-2025)

2.7.5 Kuehne + Nagel Recent Developments and Future Plans

2.8 Deutsche Post DHL Group

2.8.1 Deutsche Post DHL Group Details

2.8.2 Deutsche Post DHL Group Major Business

2.8.3 Deutsche Post DHL Group Physical Internet (PI) Product and Solutions

2.8.4 Deutsche Post DHL Group Physical Internet (PI) Revenue, Gross Margin and Market Share (2020-2025)

2.8.5 Deutsche Post DHL Group Recent Developments and Future Plans

2.9 AmeriCold Logistics LLC

2.9.1 AmeriCold Logistics LLC Details

2.9.2 AmeriCold Logistics LLC Major Business

2.9.3 AmeriCold Logistics LLC Physical Internet (PI) Product and Solutions

2.9.4 AmeriCold Logistics LLC Physical Internet (PI) Revenue, Gross Margin and Market Share (2020-2025)

2.9.5 AmeriCold Logistics LLC Recent Developments and Future Plans

2.10 Mercedes-Benz Group AG

2.10.1 Mercedes-Benz Group AG Details

2.10.2 Mercedes-Benz Group AG Major Business

2.10.3 Mercedes-Benz Group AG Physical Internet (PI) Product and Solutions

2.10.4 Mercedes-Benz Group AG Physical Internet (PI) Revenue, Gross Margin and Market Share (2020-2025)

2.10.5 Mercedes-Benz Group AG Recent Developments and Future Plans

2.11 SF Express

2.11.1 SF Express Details

2.11.2 SF Express Major Business

2.11.3 SF Express Physical Internet (PI) Product and Solutions

2.11.4 SF Express Physical Internet (PI) Revenue, Gross Margin and Market Share (2020-2025)

2.11.5 SF Express Recent Developments and Future Plans

2.12 Yamato Logistics Ltd

2.12.1 Yamato Logistics Ltd Details

2.12.2 Yamato Logistics Ltd Major Business

2.12.3 Yamato Logistics Ltd Physical Internet (PI) Product and Solutions

2.12.4 Yamato Logistics Ltd Physical Internet (PI) Revenue, Gross Margin and Market Share (2020-2025)

2.12.5 Yamato Logistics Ltd Recent Developments and Future Plans

2.13 DHL

2.13.1 DHL Details

2.13.2 DHL Major Business

2.13.3 DHL Physical Internet (PI) Product and Solutions

2.13.4 DHL Physical Internet (PI) Revenue, Gross Margin and Market Share (2020-2025)

2.13.5 DHL Recent Developments and Future Plans

2.14 FedEx Corporation

2.14.1 FedEx Corporation Details

2.14.2 FedEx Corporation Major Business

2.14.3 FedEx Corporation Physical Internet (PI) Product and Solutions

2.14.4 FedEx Corporation Physical Internet (PI) Revenue, Gross Margin and Market Share (2020-2025)

2.14.5 FedEx Corporation Recent Developments and Future Plans

2.15 Velove Bikes AB

2.15.1 Velove Bikes AB Details

2.15.2 Velove Bikes AB Major Business

2.15.3 Velove Bikes AB Physical Internet (PI) Product and Solutions

2.15.4 Velove Bikes AB Physical Internet (PI) Revenue, Gross Margin and Market Share (2020-2025)

2.15.5 Velove Bikes AB Recent Developments and Future Plans

2.16 MIXMOVE

2.16.1 MIXMOVE Details

2.16.2 MIXMOVE Major Business

2.16.3 MIXMOVE Physical Internet (PI) Product and Solutions

2.16.4 MIXMOVE Physical Internet (PI) Revenue, Gross Margin and Market Share (2020-2025)

2.16.5 MIXMOVE Recent Developments and Future Plans

3 MARKET COMPETITION, BY PLAYERS

3.1 Global Physical Internet (PI) Revenue and Share by Players (2020-2025)

3.2 Market Share Analysis (2024)

3.2.1 Market Share of Physical Internet (PI) by Company Revenue

3.2.2 Top 3 Physical Internet (PI) Players Market Share in 2024

3.2.3 Top 6 Physical Internet (PI) Players Market Share in 2024

3.3 Physical Internet (PI) Market: Overall Company Footprint Analysis

3.3.1 Physical Internet (PI) Market: Region Footprint

3.3.2 Physical Internet (PI) Market: Company Product Type Footprint

3.3.3 Physical Internet (PI) Market: Company Product Application Footprint

3.4 New Market Entrants and Barriers to Market Entry

3.5 Mergers, Acquisition, Agreements, and Collaborations

4 MARKET SIZE SEGMENT BY TYPE

4.1 Global Physical Internet (PI) Consumption Value and Market Share by Type (2020-2025)

4.2 Global Physical Internet (PI) Market Forecast by Type (2026-2031)

5 MARKET SIZE SEGMENT BY APPLICATION

5.1 Global Physical Internet (PI) Consumption Value Market Share by Application (2020-2025)

5.2 Global Physical Internet (PI) Market Forecast by Application (2026-2031)

6 NORTH AMERICA

6.1 North America Physical Internet (PI) Consumption Value by Type (2020-2031)

6.2 North America Physical Internet (PI) Market Size by Application (2020-2031)

6.3 North America Physical Internet (PI) Market Size by Country

6.3.1 North America Physical Internet (PI) Consumption Value by Country (2020-2031)

6.3.2 United States Physical Internet (PI) Market Size and Forecast (2020-2031)

6.3.3 Canada Physical Internet (PI) Market Size and Forecast (2020-2031)

6.3.4 Mexico Physical Internet (PI) Market Size and Forecast (2020-2031)

7 EUROPE

7.1 Europe Physical Internet (PI) Consumption Value by Type (2020-2031)

7.2 Europe Physical Internet (PI) Consumption Value by Application (2020-2031)

7.3 Europe Physical Internet (PI) Market Size by Country

7.3.1 Europe Physical Internet (PI) Consumption Value by Country (2020-2031)

7.3.2 Germany Physical Internet (PI) Market Size and Forecast (2020-2031)

7.3.3 France Physical Internet (PI) Market Size and Forecast (2020-2031)

7.3.4 United Kingdom Physical Internet (PI) Market Size and Forecast (2020-2031)

7.3.5 Russia Physical Internet (PI) Market Size and Forecast (2020-2031)

7.3.6 Italy Physical Internet (PI) Market Size and Forecast (2020-2031)

8 ASIA-PACIFIC

8.1 Asia-Pacific Physical Internet (PI) Consumption Value by Type (2020-2031)

8.2 Asia-Pacific Physical Internet (PI) Consumption Value by Application (2020-2031)

8.3 Asia-Pacific Physical Internet (PI) Market Size by Region

8.3.1 Asia-Pacific Physical Internet (PI) Consumption Value by Region (2020-2031)

8.3.2 China Physical Internet (PI) Market Size and Forecast (2020-2031)

8.3.3 Japan Physical Internet (PI) Market Size and Forecast (2020-2031)

8.3.4 South Korea Physical Internet (PI) Market Size and Forecast (2020-2031)

8.3.5 India Physical Internet (PI) Market Size and Forecast (2020-2031)

8.3.6 Southeast Asia Physical Internet (PI) Market Size and Forecast (2020-2031)

8.3.7 Australia Physical Internet (PI) Market Size and Forecast (2020-2031)

9 SOUTH AMERICA

9.1 South America Physical Internet (PI) Consumption Value by Type (2020-2031)

9.2 South America Physical Internet (PI) Consumption Value by Application (2020-2031)

9.3 South America Physical Internet (PI) Market Size by Country

9.3.1 South America Physical Internet (PI) Consumption Value by Country (2020-2031)

9.3.2 Brazil Physical Internet (PI) Market Size and Forecast (2020-2031)

9.3.3 Argentina Physical Internet (PI) Market Size and Forecast (2020-2031)

10 MIDDLE EAST & AFRICA

10.1 Middle East & Africa Physical Internet (PI) Consumption Value by Type (2020-2031)

10.2 Middle East & Africa Physical Internet (PI) Consumption Value by Application (2020-2031)

10.3 Middle East & Africa Physical Internet (PI) Market Size by Country

10.3.1 Middle East & Africa Physical Internet (PI) Consumption Value by Country (2020-2031)

10.3.2 Turkey Physical Internet (PI) Market Size and Forecast (2020-2031)

10.3.3 Saudi Arabia Physical Internet (PI) Market Size and Forecast (2020-2031)

10.3.4 UAE Physical Internet (PI) Market Size and Forecast (2020-2031)

11 MARKET DYNAMICS

- 11.1 Physical Internet (PI) Market Drivers
- 11.2 Physical Internet (PI) Market Restraints
- 11.3 Physical Internet (PI) Trends Analysis
- 11.4 Porters Five Forces Analysis
 - 11.4.1 Threat of New Entrants
 - 11.4.2 Bargaining Power of Suppliers
 - 11.4.3 Bargaining Power of Buyers
 - 11.4.4 Threat of Substitutes
 - 11.4.5 Competitive Rivalry

12 INDUSTRY CHAIN ANALYSIS

- 12.1 Physical Internet (PI) Industry Chain
- 12.2 Physical Internet (PI) Upstream Analysis
- 12.3 Physical Internet (PI) Midstream Analysis
- 12.4 Physical Internet (PI) Downstream Analysis

13 RESEARCH FINDINGS AND CONCLUSION

14 APPENDIX

- 14.1 Methodology
- 14.2 Research Process and Data Source
- 14.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Physical Internet (PI) Consumption Value by Type, (USD Million), 2020 & 2024 & 2031

Table 2. Global Physical Internet (PI) Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Table 3. Global Physical Internet (PI) Consumption Value by Region (2020-2025) & (USD Million)

Table 4. Global Physical Internet (PI) Consumption Value by Region (2026-2031) & (USD Million)

Table 5. Amazon Company Information, Head Office, and Major Competitors

Table 6. Amazon Major Business

Table 7. Amazon Physical Internet (PI) Product and Solutions

Table 8. Amazon Physical Internet (PI) Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 9. Amazon Recent Developments and Future Plans

Table 10. UPS Company Information, Head Office, and Major Competitors

Table 11. UPS Major Business

Table 12. UPS Physical Internet (PI) Product and Solutions

Table 13. UPS Physical Internet (PI) Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 14. UPS Recent Developments and Future Plans

Table 15. IBM Company Information, Head Office, and Major Competitors

Table 16. IBM Major Business

Table 17. IBM Physical Internet (PI) Product and Solutions

Table 18. IBM Physical Internet (PI) Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 19. Maersk Company Information, Head Office, and Major Competitors

Table 20. Maersk Major Business

Table 21. Maersk Physical Internet (PI) Product and Solutions

Table 22. Maersk Physical Internet (PI) Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 23. Maersk Recent Developments and Future Plans

Table 24. Flexport Company Information, Head Office, and Major Competitors

Table 25. Flexport Major Business

Table 26. Flexport Physical Internet (PI) Product and Solutions

Table 27. Flexport Physical Internet (PI) Revenue (USD Million), Gross Margin and

Market Share (2020-2025)

Table 28. Flexport Recent Developments and Future Plans

Table 29. XPO Logistics Company Information, Head Office, and Major Competitors

Table 30. XPO Logistics Major Business

Table 31. XPO Logistics Physical Internet (PI) Product and Solutions

Table 32. XPO Logistics Physical Internet (PI) Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 33. XPO Logistics Recent Developments and Future Plans

Table 34. Kuehne + Nagel Company Information, Head Office, and Major Competitors

Table 35. Kuehne + Nagel Major Business

Table 36. Kuehne + Nagel Physical Internet (PI) Product and Solutions

Table 37. Kuehne + Nagel Physical Internet (PI) Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 38. Kuehne + Nagel Recent Developments and Future Plans

Table 39. Deutsche Post DHL Group Company Information, Head Office, and Major Competitors

Table 40. Deutsche Post DHL Group Major Business

Table 41. Deutsche Post DHL Group Physical Internet (PI) Product and Solutions

Table 42. Deutsche Post DHL Group Physical Internet (PI) Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 43. Deutsche Post DHL Group Recent Developments and Future Plans

Table 44. AmeriCold Logistics LLC Company Information, Head Office, and Major Competitors

Table 45. AmeriCold Logistics LLC Major Business

Table 46. AmeriCold Logistics LLC Physical Internet (PI) Product and Solutions

Table 47. AmeriCold Logistics LLC Physical Internet (PI) Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 48. AmeriCold Logistics LLC Recent Developments and Future Plans

Table 49. Mercedes-Benz Group AG Company Information, Head Office, and Major Competitors

Table 50. Mercedes-Benz Group AG Major Business

Table 51. Mercedes-Benz Group AG Physical Internet (PI) Product and Solutions

Table 52. Mercedes-Benz Group AG Physical Internet (PI) Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 53. Mercedes-Benz Group AG Recent Developments and Future Plans

Table 54. SF Express Company Information, Head Office, and Major Competitors

Table 55. SF Express Major Business

Table 56. SF Express Physical Internet (PI) Product and Solutions

Table 57. SF Express Physical Internet (PI) Revenue (USD Million), Gross Margin and

Market Share (2020-2025)

Table 58. SF Express Recent Developments and Future Plans

Table 59. Yamato Logistics Ltd Company Information, Head Office, and Major Competitors

Table 60. Yamato Logistics Ltd Major Business

Table 61. Yamato Logistics Ltd Physical Internet (PI) Product and Solutions

Table 62. Yamato Logistics Ltd Physical Internet (PI) Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 63. Yamato Logistics Ltd Recent Developments and Future Plans

Table 64. DHL Company Information, Head Office, and Major Competitors

Table 65. DHL Major Business

Table 66. DHL Physical Internet (PI) Product and Solutions

Table 67. DHL Physical Internet (PI) Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 68. DHL Recent Developments and Future Plans

Table 69. FedEx Corporation Company Information, Head Office, and Major Competitors

Table 70. FedEx Corporation Major Business

Table 71. FedEx Corporation Physical Internet (PI) Product and Solutions

Table 72. FedEx Corporation Physical Internet (PI) Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 73. FedEx Corporation Recent Developments and Future Plans

Table 74. Velove Bikes AB Company Information, Head Office, and Major Competitors

Table 75. Velove Bikes AB Major Business

Table 76. Velove Bikes AB Physical Internet (PI) Product and Solutions

Table 77. Velove Bikes AB Physical Internet (PI) Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 78. Velove Bikes AB Recent Developments and Future Plans

Table 79. MIXMOVE Company Information, Head Office, and Major Competitors

Table 80. MIXMOVE Major Business

Table 81. MIXMOVE Physical Internet (PI) Product and Solutions

Table 82. MIXMOVE Physical Internet (PI) Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 83. MIXMOVE Recent Developments and Future Plans

Table 84. Global Physical Internet (PI) Revenue (USD Million) by Players (2020-2025)

Table 85. Global Physical Internet (PI) Revenue Share by Players (2020-2025)

Table 86. Breakdown of Physical Internet (PI) by Company Type (Tier 1, Tier 2, and Tier 3)

Table 87. Market Position of Players in Physical Internet (PI), (Tier 1, Tier 2, and Tier 3),

Based on Revenue in 2024

Table 88. Head Office of Key Physical Internet (PI) Players

Table 89. Physical Internet (PI) Market: Company Product Type Footprint

Table 90. Physical Internet (PI) Market: Company Product Application Footprint

Table 91. Physical Internet (PI) New Market Entrants and Barriers to Market Entry

Table 92. Physical Internet (PI) Mergers, Acquisition, Agreements, and Collaborations

Table 93. Global Physical Internet (PI) Consumption Value (USD Million) by Type
(2020-2025)

Table 94. Global Physical Internet (PI) Consumption Value Share by Type (2020-2025)

Table 95. Global Physical Internet (PI) Consumption Value Forecast by Type
(2026-2031)

Table 96. Global Physical Internet (PI) Consumption Value by Application (2020-2025)

Table 97. Global Physical Internet (PI) Consumption Value Forecast by Application
(2026-2031)

Table 98. North America Physical Internet (PI) Consumption Value by Type (2020-2025)
& (USD Million)

Table 99. North America Physical Internet (PI) Consumption Value by Type (2026-2031)
& (USD Million)

Table 100. North America Physical Internet (PI) Consumption Value by Application
(2020-2025) & (USD Million)

Table 101. North America Physical Internet (PI) Consumption Value by Application
(2026-2031) & (USD Million)

Table 102. North America Physical Internet (PI) Consumption Value by Country
(2020-2025) & (USD Million)

Table 103. North America Physical Internet (PI) Consumption Value by Country
(2026-2031) & (USD Million)

Table 104. Europe Physical Internet (PI) Consumption Value by Type (2020-2025) &
(USD Million)

Table 105. Europe Physical Internet (PI) Consumption Value by Type (2026-2031) &
(USD Million)

Table 106. Europe Physical Internet (PI) Consumption Value by Application
(2020-2025) & (USD Million)

Table 107. Europe Physical Internet (PI) Consumption Value by Application
(2026-2031) & (USD Million)

Table 108. Europe Physical Internet (PI) Consumption Value by Country (2020-2025) &
(USD Million)

Table 109. Europe Physical Internet (PI) Consumption Value by Country (2026-2031) &
(USD Million)

Table 110. Asia-Pacific Physical Internet (PI) Consumption Value by Type (2020-2025)

& (USD Million)

Table 111. Asia-Pacific Physical Internet (PI) Consumption Value by Type (2026-2031)

& (USD Million)

Table 112. Asia-Pacific Physical Internet (PI) Consumption Value by Application (2020-2025) & (USD Million)

Table 113. Asia-Pacific Physical Internet (PI) Consumption Value by Application (2026-2031) & (USD Million)

Table 114. Asia-Pacific Physical Internet (PI) Consumption Value by Region (2020-2025) & (USD Million)

Table 115. Asia-Pacific Physical Internet (PI) Consumption Value by Region (2026-2031) & (USD Million)

Table 116. South America Physical Internet (PI) Consumption Value by Type (2020-2025) & (USD Million)

Table 117. South America Physical Internet (PI) Consumption Value by Type (2026-2031) & (USD Million)

Table 118. South America Physical Internet (PI) Consumption Value by Application (2020-2025) & (USD Million)

Table 119. South America Physical Internet (PI) Consumption Value by Application (2026-2031) & (USD Million)

Table 120. South America Physical Internet (PI) Consumption Value by Country (2020-2025) & (USD Million)

Table 121. South America Physical Internet (PI) Consumption Value by Country (2026-2031) & (USD Million)

Table 122. Middle East & Africa Physical Internet (PI) Consumption Value by Type (2020-2025) & (USD Million)

Table 123. Middle East & Africa Physical Internet (PI) Consumption Value by Type (2026-2031) & (USD Million)

Table 124. Middle East & Africa Physical Internet (PI) Consumption Value by Application (2020-2025) & (USD Million)

Table 125. Middle East & Africa Physical Internet (PI) Consumption Value by Application (2026-2031) & (USD Million)

Table 126. Middle East & Africa Physical Internet (PI) Consumption Value by Country (2020-2025) & (USD Million)

Table 127. Middle East & Africa Physical Internet (PI) Consumption Value by Country (2026-2031) & (USD Million)

Table 128. Global Key Players of Physical Internet (PI) Upstream (Raw Materials)

Table 129. Global Physical Internet (PI) Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Physical Internet (PI) Picture

Figure 2. Global Physical Internet (PI) Consumption Value by Type, (USD Million), 2020 & 2024 & 2031

Figure 3. Global Physical Internet (PI) Consumption Value Market Share by Type in 2024

Figure 4. Planning and Consulting

Figure 5. Integration and Deployment

Figure 6. Support and Maintenance

Figure 7. Global Physical Internet (PI) Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Figure 8. Physical Internet (PI) Consumption Value Market Share by Application in 2024

Figure 9. Retail & E-Commerce Picture

Figure 10. Transportation & Logistics Picture

Figure 11. Pharmaceutical & Health Picture

Figure 12. Manufacturing Picture

Figure 13. Automotive Picture

Figure 14. Aerospace Picture

Figure 15. Defense Picture

Figure 16. Global Physical Internet (PI) Consumption Value, (USD Million): 2020 & 2024 & 2031

Figure 17. Global Physical Internet (PI) Consumption Value and Forecast (2020-2031) & (USD Million)

Figure 18. Global Market Physical Internet (PI) Consumption Value (USD Million) Comparison by Region (2020 VS 2024 VS 2031)

Figure 19. Global Physical Internet (PI) Consumption Value Market Share by Region (2020-2031)

Figure 20. Global Physical Internet (PI) Consumption Value Market Share by Region in 2024

Figure 21. North America Physical Internet (PI) Consumption Value (2020-2031) & (USD Million)

Figure 22. Europe Physical Internet (PI) Consumption Value (2020-2031) & (USD Million)

Figure 23. Asia-Pacific Physical Internet (PI) Consumption Value (2020-2031) & (USD Million)

Figure 24. South America Physical Internet (PI) Consumption Value (2020-2031) &

(USD Million)

Figure 25. Middle East & Africa Physical Internet (PI) Consumption Value (2020-2031) & (USD Million)

Figure 26. Company Three Recent Developments and Future Plans

Figure 27. Global Physical Internet (PI) Revenue Share by Players in 2024

Figure 28. Physical Internet (PI) Market Share by Company Type (Tier 1, Tier 2, and Tier 3) in 2024

Figure 29. Market Share of Physical Internet (PI) by Player Revenue in 2024

Figure 30. Top 3 Physical Internet (PI) Players Market Share in 2024

Figure 31. Top 6 Physical Internet (PI) Players Market Share in 2024

Figure 32. Global Physical Internet (PI) Consumption Value Share by Type (2020-2025)

Figure 33. Global Physical Internet (PI) Market Share Forecast by Type (2026-2031)

Figure 34. Global Physical Internet (PI) Consumption Value Share by Application (2020-2025)

Figure 35. Global Physical Internet (PI) Market Share Forecast by Application (2026-2031)

Figure 36. North America Physical Internet (PI) Consumption Value Market Share by Type (2020-2031)

Figure 37. North America Physical Internet (PI) Consumption Value Market Share by Application (2020-2031)

Figure 38. North America Physical Internet (PI) Consumption Value Market Share by Country (2020-2031)

Figure 39. United States Physical Internet (PI) Consumption Value (2020-2031) & (USD Million)

Figure 40. Canada Physical Internet (PI) Consumption Value (2020-2031) & (USD Million)

Figure 41. Mexico Physical Internet (PI) Consumption Value (2020-2031) & (USD Million)

Figure 42. Europe Physical Internet (PI) Consumption Value Market Share by Type (2020-2031)

Figure 43. Europe Physical Internet (PI) Consumption Value Market Share by Application (2020-2031)

Figure 44. Europe Physical Internet (PI) Consumption Value Market Share by Country (2020-2031)

Figure 45. Germany Physical Internet (PI) Consumption Value (2020-2031) & (USD Million)

Figure 46. France Physical Internet (PI) Consumption Value (2020-2031) & (USD Million)

Figure 47. United Kingdom Physical Internet (PI) Consumption Value (2020-2031) &

(USD Million)

Figure 48. Russia Physical Internet (PI) Consumption Value (2020-2031) & (USD Million)

Figure 49. Italy Physical Internet (PI) Consumption Value (2020-2031) & (USD Million)

Figure 50. Asia-Pacific Physical Internet (PI) Consumption Value Market Share by Type (2020-2031)

Figure 51. Asia-Pacific Physical Internet (PI) Consumption Value Market Share by Application (2020-2031)

Figure 52. Asia-Pacific Physical Internet (PI) Consumption Value Market Share by Region (2020-2031)

Figure 53. China Physical Internet (PI) Consumption Value (2020-2031) & (USD Million)

Figure 54. Japan Physical Internet (PI) Consumption Value (2020-2031) & (USD Million)

Figure 55. South Korea Physical Internet (PI) Consumption Value (2020-2031) & (USD Million)

Figure 56. India Physical Internet (PI) Consumption Value (2020-2031) & (USD Million)

Figure 57. Southeast Asia Physical Internet (PI) Consumption Value (2020-2031) & (USD Million)

Figure 58. Australia Physical Internet (PI) Consumption Value (2020-2031) & (USD Million)

Figure 59. South America Physical Internet (PI) Consumption Value Market Share by Type (2020-2031)

Figure 60. South America Physical Internet (PI) Consumption Value Market Share by Application (2020-2031)

Figure 61. South America Physical Internet (PI) Consumption Value Market Share by Country (2020-2031)

Figure 62. Brazil Physical Internet (PI) Consumption Value (2020-2031) & (USD Million)

Figure 63. Argentina Physical Internet (PI) Consumption Value (2020-2031) & (USD Million)

Figure 64. Middle East & Africa Physical Internet (PI) Consumption Value Market Share by Type (2020-2031)

Figure 65. Middle East & Africa Physical Internet (PI) Consumption Value Market Share by Application (2020-2031)

Figure 66. Middle East & Africa Physical Internet (PI) Consumption Value Market Share by Country (2020-2031)

Figure 67. Turkey Physical Internet (PI) Consumption Value (2020-2031) & (USD Million)

Figure 68. Saudi Arabia Physical Internet (PI) Consumption Value (2020-2031) & (USD Million)

Figure 69. UAE Physical Internet (PI) Consumption Value (2020-2031) & (USD Million)

Figure 70. Physical Internet (PI) Market Drivers

Figure 71. Physical Internet (PI) Market Restraints

Figure 72. Physical Internet (PI) Market Trends

Figure 73. Porters Five Forces Analysis

Figure 74. Physical Internet (PI) Industrial Chain

Figure 75. Methodology

Figure 76. Research Process and Data Source

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