



# Cold Chain Logistics 2017

Cold Chain Logistics 2017 offers insight into the complex nature of temperature-controlled supply chains.



## Ti's Origin and Development

Ti is a leading logistics and supply chain market analysis company developed around five pillars of growth:

- Logistics Briefing
- Ti Market Research Reports
- Ti Insight portals
- Ti Consulting
- Ti Conferences and Training

Ti acts as advisors to the World Economic Forum, World Bank, UN and European Commission and have 14 years worth of providing expert analysis to the worlds leading manufacturers, retailers, banks, consultancies, shipping lines and logistics providers.

## What Sets Ti Apart?

- Globally recognised and trusted brand
- Global Associate Network provides a multi-country, multi-disciplinary and multi-lingual extension to Ti's in-house capabilities
- More than fourteen years of knowledge delivery to global manufacturers, retailers, banks, consultancies, shipping lines and logistics providers
- Unique web-based intelligence portals
- Interactive dashboard
- On-going and comprehensive programmes of primary and secondary research

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<b>1.0 Cold chain logistics overview</b>	<b>4</b>	<b>3.0 Cold chain logistics by vertical sector</b>	<b>30</b>
1.1 What is cold chain logistics?	5	3.1 Agriculture, food and perishables	31
1.2 Supply chain overview	6	3.2 Consumer packaged goods (CPG)	33
1.3 Supply chain risk	8	3.3 Healthcare/ Pharmaceutical	35
1.4 Major providers of cold chain logistics	10		
1.5 Cold chain innovations	12	<b>4.0 Cold chain logistics by geography</b>	<b>37</b>
1.6 The future of cold chain	14	4.1 Asia Pacific	38
<b>2.0 Cold chain logistics by market</b>	<b>17</b>	4.2 Europe	40
2.1 Contract logistics	18	4.3 Middle East and North Africa	42
2.2 Express and small parcels	20	4.4 North America	44
2.3 Freight forwarding	22	4.5 South America	46
2.4 Road transport	25	4.6 Sub-Saharan Africa	48
2.5 Warehousing and property development	27		
2.5.1 Case study: Swire Pacific Cold Storage	29	<i>Contact Ti</i>	<b>49</b>

## 1.0 Cold chain logistics overview

### 2.0 Cold chain logistics by market

### 3.0 Cold chain logistics by vertical sector

### 4.0 Cold chain logistics by geography



Logistics Briefing



Ti Dashboard



Ti Reports



Ti Portal GSCi



Ti Consulting



Ti Conference

# 1.1 What is cold chain logistics?



Cold chain logistics refers to the storage, handling and transportation of cargo under temperature-controlled conditions. Whether frozen, chilled or ambient, any cargo that is subject to a controlled, monitored environment where a constant temperature is maintained, is included. Increasingly though, we are seeing cold chain logistics as encompassing much more than just maintaining cargo at a certain temperature - technological advances mean atmosphere control and the monitoring of humidity, shock and vibrations are becoming more prevalent.

The two main cold chain cargo categories are food and pharmaceuticals. Perishable foods include fresh produce such as meat, fish, fruit and vegetables, and chilled or frozen packaged foods such as cheese and ice cream. Pharmaceutical cargo includes healthcare products like vaccines and clinical trials materials. Increasingly stringent regulations mean even room-temperature products require controlled shipping.

Because of the complexities in cold chain logistics, it is a potentially lucrative endeavour. Many practitioners operate across the cold chain market and co-ordination is vital. Damaged or spoilt cargo can cost millions in lost revenue of insurance claims.

An unbroken cold chain is an uninterrupted series of refrigerated production, storage and distribution activities, along with associated equipment and logistics, which maintain a desired low-temperature range. It is used to preserve and to extend and ensure the shelf life of products, such as fresh agricultural produce, seafood, frozen food, chemicals and pharmaceuticals.





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