



# Global Transactions

## Managing Risks in Global Sourcing



Professor Richard Wilding, Professor of Supply Chain Risk Management & Professor Alan Braithwaite, Visiting Professor

The policy of global sourcing is a strategic imperative for many businesses; it has raised the competitive 'bar' to the point where it has become a qualifier for survival rather than a competitive edge in its own right. The authors examine how a sophisticated implementation of such policies can provide sustainable competitive advantage.

**T**here has been huge investment to secure low unit costs through the supply chain and drive volume and margin simultaneously. The low wage areas of Asia have attracted manufacturing companies whose products demand high labour content in a variety of sectors from garments and computers, to consumer products and engineering. Success in global sourcing requires high levels of transparency, knowing what is coming, and testing for events that have not happened as planned; this requires the proactive co-operation of all the parties in the chain.

The first consequence of the drive for low cost is the core characteristic that global sourcing is not 'adjacent'. Global chains are extended in terms of the time that is locked up in the sequential processes of ordering, provisioning, manufacturing and shipping. This extended time is a precondition of the margin opportunities that can be extracted. It is therefore not value-adding, but essential.

Work by the authors with Maersk Logistics indicates that the global supply chain transaction lead-time contributes in the range of 30% to 50% of the total time in the chain, but adds just 2% to 5% to the transactional cost of the article. Indicatively the gross margin gain is not less than 20% and is often much more. The same work showed that there could be as many as seven additional parties to executing the global sourcing transaction,



including consolidation centres, shipping lines, customs and compliance authorities. There is therefore a time and transactional control issue that greatly exceeds the supply chain execution costs.

The second consequential characteristic relates to the nature of the capacity that is being used. The investors are carrying a much higher 'cost of capital' and need to secure a return on their investment. There are huge pressures on them to produce, such that prices will be lowered until capacity is consumed. This determination to make investments pay has created a platform for sustained deflationary pressures on prices that

our politicians have been happy to embrace. However, we may now be at the point where the behavioural impacts of producers and buyers, both fighting to maximise margin at the expense of each other, creates a trading environment that is highly volatile. Supply chain promiscuity and unreliability are about to become rife.

The combined characteristics of this changed supply/demand dynamic with extended timescales work to generate levels of transaction risk that need to be understood and managed in order to ensure a net benefit from the long term trend to global supply.

## Global Sourcing Strategy

Kingfisher and B&Q, the large Do-It-Yourself multiple, has revealed in annual reports and recent corporate presentations the benefits of their global sourcing strategy. Their advertising campaigns promote the concept of "every day low prices" and this can only be enabled by implementing global sourcing. From an analyst briefing pack the impact of transacting business on a global scale using Far East sources can be seen from the examples quoted:

### B&Q knife

<b>WAS sourced for</b>	<b>88p</b>
<b>NOW sourced for</b>	<b>40p</b>

### B&Q Real wood flooring

<b>2004 sold for</b>	<b>£19.98 / sqm</b>
<b>2005 sold for</b>	<b>£14.07 / sqm</b>

### Castorama wrench

<b>WAS sourced for</b>	<b>8.50</b>
<b>NOW sourced for</b>	<b>2.00</b>

### Castorama swimming pool

<b>2004 sold for</b>	<b>305.00</b>
<b>2005 sold for</b>	<b>129.00</b>

The customer has benefited from these lower prices and it has driven sales growth, margin and market share to some extent. However these numbers do not tell the whole story in terms of cost and risk. The authors' research shows that the capital tied up in the extended chain can extend from 30 days for domestic supply to as much as 150 days. The risk in the extended chain is then whether the sales will meet the forecast on which the order has been based. Of course when supply exceeds the predicted demand forecast by a lot, the chain is too long for it to be able to adapt to the actual demand. The consumer is often delighted by the even lower prices that result as stock is cleared. However it is not a sustainable model if the levels of obsolescence climb too high. Leading companies are now putting in place advanced supply chain control mechanisms to govern their global sourcing transactions.

### The evolving risk profile of global sourcing

Back in 1988, Markides and Berg writing in the Harvard Business Review identified the trends to manufacturing offshore and roundly criticised it as being both unnecessary and risky. They argued that existing manufacturing

capacity could be made more competitive and that the hidden costs of obsolescence, inventory holding and demand unresponsiveness are risks that counter the headline benefits. Given the date of that paper and the scale of the subsequent trend to offshore sourcing, their warnings have been over-ridden by

the inexorable drive for gross margin. However the risks of global sourcing may yet be coming into focus as the 'first mover advantage' dissipates. If we set to one side their assertion that the trend to global supply is unnecessary and deal with the reality, their catalogue of the risks remains accurate today.

1. There are risks that the total acquisition cost may be greater than anticipated and erode the net benefits that the initial purchase costs imply. When all factors including transportation, handling, duty, obsolescence, inventory, lost sales and 'market blocking' are factored in, the total cost may not be as attractive as the headline advantage - labour costs are typically as little as 7% to 10% of the total product costs and even less on the selling price.

2. The extended chain cannot be as responsive to variations in demand as local sourcing. The reduced responsiveness may result in the opportunity costs of lost sales.

3. There may be risks with quality and execution due to the long distance relationships and the many hand-offs in the processes to move the product to its destination. Small errors and inaccuracies occurring at hand-offs and misunderstanding due to long distance relationships may cause service failure and hence cost.

4. Valuable know-how may be given away to vendors allowing others to enter markets and for product and engineering skills to be lost. Intellectual property and skills need to be shared in order to gain the benefits of global sourcing this can mean organisations handing over their sources of future competitiveness to partners.

5. The long-term impact on supply and demand is less clear and may distort markets both in terms of the benefits gained and also for the risks of secure supply. The risk profile for organisations changes dramatically, managing global

supply chains can reduce transparency of true costs and end customer demand. At the headline level, these factors are known and understood. How companies who internalise them and mitigate their implications may be less consistent. The conclusion is global sourcing is not a consistent proxy for sustained higher profits. The volatilities of the business climate, consumer demand, competitive actions, fashion, quality of execution and market dynamics, amongst other things, all combine to make the outcome less certain than deterministic planning models would have us believe. Boards will need to start to focus on the complete mix.

## Critical success factors

We think of global supply chains as having three dimensions: design, planning and execution. These have decreasing horizons of impact, but often the actual trading impact increases when risks are encountered; there is less time to put things right before trading is impacted. Here we are dealing with executional/transactional risks. The measures to mitigate such risk in global supply chains require six capabilities. It is these capabilities that are the critical success factors.

**1. Total Acquisition Cost Management** - the ability to analyse and predict the total cost-to-serve from the source of supply to its final point of sale. The capability in this analysis is not to simply build up the logistics costs by differentiating the physical characteristics of the freight and the duty and customs regimes that are applicable. It is more important to analyse and build into the costing the resulting markdown and lost sales risk of the product by developing and applying a market-risk and cost risk profile. The inventory holding cost through the chain must also be factored in. Experience has shown that this analysis identifies products that should never be traded on a long lead-

time, or that should be the subject of a postponement strategy. It is also likely to show that there are some products where actions to reduce lead-time and increase flexibility will justify a higher initial purchasing cost.

**2. One touch information flow** - to avoid double entry, duplication, mistakes and inconsistency as the same transaction moves through the many points of contact in the chain. Accuracy of information is a precondition of proactive management and the ability to exercise risk mitigation measures. This capability is systems enabled; it is critical to have the widest view of the total chain on one information platform with the ability to recognise inconsistencies.

**3. Total product identification and compliance** - to ensure fast accurate product and handling unit identification that feeds the "one touch information" requirement without delay. The use of bar codes and RFID (Radio Frequency Identification) to the correct standards is the enabling technology; this needs to be quality assured and enforced on the ground across many sites with failures being fixed where they occur.

**4. Real time routing through dynamic visibility** - the capability to see through the chain, know what is coming, and test for events that have not happened as planned; to interpret the implications of failures in a pro-active way and make decisions to minimise their impact. This is the 'traffic control' of global supply chain management; it must be managed transparently and with the proactive co-operation of all the parties in the chain.

**5. Vendor development** - cycle time compression linked to real demand - the capability to understand and improve the long-term performance of vendors in terms of cycle times, timeliness, quality and accuracy is central to time compression and risk reduction. Based on historical performance of the end-to-end chain it is possible to identify improvement programmes to develop

supplier reliability. The ultimate goal is to issue orders and schedules on shorter lead times, reflecting real demand or more accurate forecasts. Understanding the underlying performance of the vendor, and his category of products in the marketplace, is the starting point for this; it is dependent on information across the chain.

**6. Information platform** - to provide consistent and timely information, the capability to put in place, operate and maintain a full supply chain visibility solution.

All of the above capabilities are anchored by the operational skill to secure and maintain the information backbone with the diverse data structures that are needed by each supply chain function.

These capabilities relate to management information and the skills to apply that information with greater precision; information on the extended chain in terms of accuracy and speed of availability is central to these capabilities.

Our research suggests that companies are moving from the first stages of quick wins into a more mature phase of global sourcing. Those that have learnt the new game will be more able to sustain the advantage they have won so far.

Professor Richard Wilding is Chair in Supply Chain Risk Management and hosts the Cranfield Supply Chain Risk Forum:

[www.supplychainriskmanagement.co.uk](http://www.supplychainriskmanagement.co.uk)  
For further information contact the author at: [r.d.wilding@cranfield.ac.uk](mailto:r.d.wilding@cranfield.ac.uk)

Professor Alan Braithwaite is Visiting Professor in Supply Chain Management. For further information contact the author at: [www.lcpconsulting.com](http://www.lcpconsulting.com)

# Global Transactions: Managing Risks in Global Sourcing

Wilding, Richard D.

2006-01-01T00:00:00Z

---

Richard Wilding and Alan Braithwaite; Global Transactions: Managing Risks in Global Sourcing.  
Management Focus, 2006, No. 24

<http://dspace.lib.cranfield.ac.uk/handle/1826/2751>

*Downloaded from CERES Research Repository, Cranfield University*