

The supply chain and brand value

In this article we look at how transparency and business ethics are driving supply chains to the foreground, and how new technologies can give your business an edge.

Supply chain management is business critical in the FMCG sector. It ensures that the right goods and ingredients get to market when they are freshest, when there is demand, in time for any promotions, and at the lowest cost. But it also ensures that consumers are getting what they pay for: not only a product that's consistent with its marketing – including where it comes from and what it contains – but also a product consistent with the consumer's values. These values increasingly focus on sustainability and business ethics as part of a brand's image.

We have previously explored how the use of artificial intelligence and big data analysis is being used by retailers. Artificial intelligence and machine learning can help to forecast sales, reduce waste, and deal with shrinkage: the mismatch or loss of stock due to damage or stocktaking errors. This was considered inevitable until recently, but is now something which businesses have a real hope of eliminating entirely.







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In this article, we look in particular at the increasing value placed by consumers on provenance and ethics within supply chains, and how new technologies can help businesses demonstrate transparency and their ethical credentials. We examine how businesses are using new technologies to optimise their supply chains, not only to drive "just in time" and other operational efficiencies, but also to support broader brand value.

FROM CONTAMINATION, to provenance and ethics

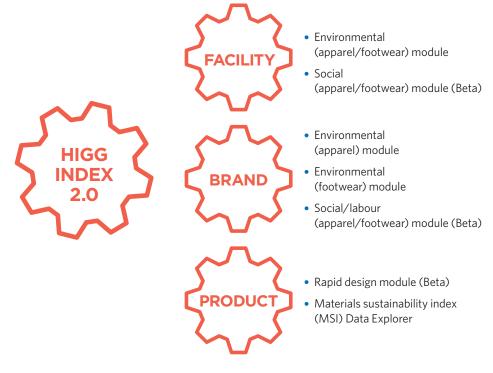
In 2013, there was public outcry in the UK over the presence of horsemeat in the UK meat industry. More recently, a pesticide called Fipronil was detected in eggs distributed in a number of EU countries, resulting in significant negative publicity – not only for primary resellers of eggs, but also for businesses in the baking segment and other secondary users of egg derivatives. The challenges involved in preserving the integrity of your supply chain are particularly acute where products go through several intermediary stages and jurisdictions.

Both of these scandals undermined consumers' trust in the information provided to them on product labels. However, these are merely high profile examples of a much broader trend: consumers now demand transparency not only to ensure that produce is free of contamination, but also to ensure that brands are delivering on their broader value proposition.

There are also some areas where traceability requirements are mandatory, such as for food and feed, requiring suppliers to ensure that as far as practicable products contain no GM ingredients. Similarly, producers of organic food or produce are required to comply with rigorous traceability requirements if they wish to have organic accreditation. A number of consumer businesses have responded to the challenge in recent years by making ever more robust public commitments in relation to the integrity of their supply chains – in effect, holding themselves to a higher standard, as a

means of driving best practice internally. For instance, as a major user of palm oil, Unilever founded and co-chairs the Roundtable on Sustainable Palm Oil, a cross-business group which seeks to improve sustainability in the palm oil industry. Unilever has also set ambitious targets, such as the goal of achieving 100% physically certified palm oil and its

derivatives for the company's core volumes, mandatory human rights requirements, and a no-tolerance approach to deforestation. By requiring suppliers and their third parties to verify that the palm oil they supply to Unilever meets this Policy, Unilever aims to encourage better practices throughout the supply chain.





Selecting and monitoring suppliers

The ways in which businesses select their partners and suppliers, and the ongoing monitoring of supplier performance, can help to push more sustainable practices down the chain. In 2012, the Sustainable Apparel Coalition (SAC), a global alliance of fashion, manufacturing and retail companies, launched a pioneering set of self-assessment tools to help businesses measure and improve their environmental, social and labour impacts at the brand, product and individual factory level.

H&M, a founder member of the SAC, was one of the first global fashion companies to

incorporate the Higg Index facility modules (both environmental and social) into their supply chain. This includes applying it to all of their first and second tier factories, producing 56% of the H&M group's total volumes.

Ultimately, for businesses using tools like the Higg Index modules, the aim will be to translate the resulting data into something that consumers can easily access. For instance, H&M is developing a labelling system that allows customers to compare the sustainability of products across brands. The more businesses use tools like the Higg Index, the easier it will be to establish industry standards and improve transparency at the consumer level.



"The fashion industry needs to reinvent itself to operate within the planetary boundaries and become circular. Investments in research, innovation and disruptive ideas are key to make the technological and operational leaps required"

ERIK BANG
INNOVATION LEAD
H&M FOUNDATION

Can technology transform the way that businesses tackle these challenges?

Public commitments, industry-wide bodies and improved supplier terms are the traditional means of addressing consumers' supply chain demands. Businesses are also investing in, or investigating, new technologies to improve their sustainability and ethical standards, and ultimately to safeguard their brands.

For example, the quest to become "100% circular" is being driven by technology. The idea of a circular economy has been defined by the Ellen MacArthur Foundation as replacing a "take, make, dispose" approach with a "restorative and regenerative" model that aims to "keep products, components, and materials at their highest utility and value at all times". For most businesses, this means a commitment to reducing waste through increased reuse and recycling.

Nike is one example of a business that has invested in technology to develop a suite of sustainable materials, including recycled polyester from plastic bottles and new fabrics that require significantly less water.

H&M is also using technology to drive innovation in this area. The H&M Foundation's partnership with The Hong Kong Research Institute of Textiles and Apparel aims to develop technologies to recycle blended textiles into new fabrics and yarns. In the long term, H&M's goal is to turn all products that can no longer be used into new materials.



Blockchain

Blockchain technology may be best known for its implementation as part of the digital Bitcoin currency. However, it has the potential for far wider application, including in consumer supply chains.

As a decentralised ledger that logs a growing list of ordered records (known as blocks), blockchain technology could be used to record all the transactions that take place from the start to the end of a supply chain. Since each block is timestamped and linked to previous blocks, the ledger would serve as an irrefutable record of each supply chain stage. This would allow retailers and manufacturers to trace constituent components of a given product, creating greater transparency and reducing the costs of current supply chain auditing.

It could also reduce marketing costs. The Co-op, for instance, has been working with blockchain start-up, Provenance, as a means of showing how and why their tuna is sustainable, and Walmart is working with IBM on a project to digitally track the movement of pork

through their Chinese suppliers. These initiatives will ultimately allow consumers to explore the product's journey themselves, rather than relying on the brand to take them on that journey.

Returning to the horse-meat and Fipronil scandals, blockchain technology can also be used to highlight risks of contamination in the supply chain. The easier it is for a company to track each ingredient and identify the responsible party at each stage, the better-equipped the company will be to engage with, and ask questions of, those parties. The same logic applies to the risks posed by counterfeit products. BlockVerify, a company that uses blockchain technology to improve anti-counterfeit measures, is currently offering such services to the pharmaceutical and consumer electronics sectors.

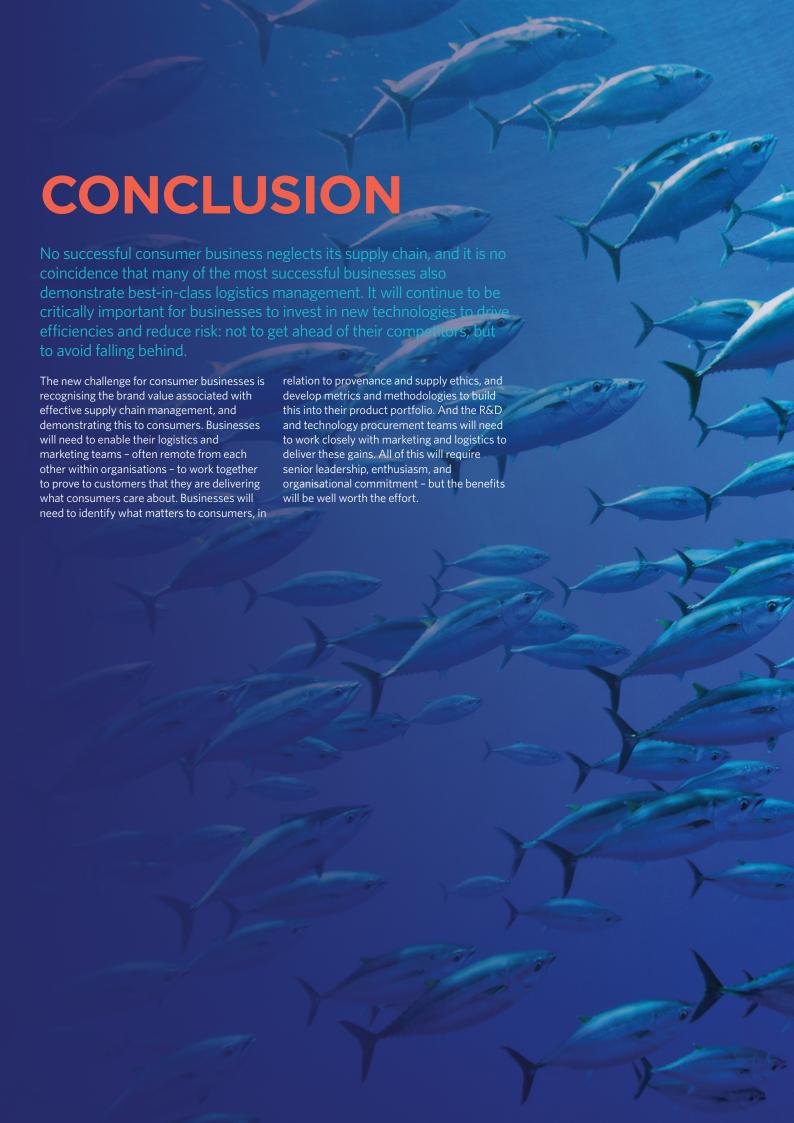
Businesses are embracing blockchain on the journey to greater transparency and the increased value proposition that comes with it. However, as with any early-stage technology,

there is still uncertainty as to how blockchain will fit into or disrupt the current consumer goods framework. In order to realise the benefits of blockchain technology across the supply chain, it first has to be implemented. This becomes a complicated exercise when products track across multiple jurisdictions. If commodities at the beginning of the supply chain are not recorded on the ledger, the record will remain incomplete. In some cases there will also need to be continued reliance on physical inspection before a block can be verified, re-introducing the risk of human error or fraud.



"Supply chains are a powerful lever for increasing customer satisfaction and loyalty, reducing costs, and achieving competitive advantage. Increasing supply chain complexity, coupled with higher service level and cost efficiency expectations, is forcing business leaders to rethink their approach to supply chain configuration and management. Technology will be a key part of this, and businesses which can adopt and optimise new technologies more effectively than their competitors will be able to pass on savings to their customers – or returns to their investors"

SHAUN BROWNE
MANAGING DIRECTOR
HOULIHAN LOKEY'S CONSUMER, FOOD & RETAIL GROUP





Key contacts



Susan Black
Co-Head Consumer Sector,
London
T +44 20 7466 2055
M+44 7785 255 009
susan.black@hsf.com



Kristin Stammer
Co-Head Consumer Sector,
Sydney
T +61 2 9225 5572
M +61 414 957 572
kristin.stammer@hsf.com



Alex Kay Partner, Corporate, London T +44 20 7466 2447 M +44 7785 775 051 alex.kay@hsf.com



Joel Smith
Partner,
Head of IP, UK
T +44 20 7466 2331
M+44 7785 775 035
joel.smith@hsf.com



David Coulling
Partner, TMT
London
T +44 20 7466 2442
M +44 7809 200 144
david.coulling@hsf.com

Authors



Rich Woods Senior Associate, London T +44 207 7466 2940 rich.woods@hsf.com



Rebecca Perlman Associate, Pro Bono T +44 20 7466 2075 M +44 7720 639 540 rebecca.perlman@hsf.com



Alexandra Morgan Senior Associate T +44 20 7466 2808 M +44 07912 394 272 alexandra.morgan@hsf.com

This article is part of a **Future of Consumer series** on upcoming issues affecting the Consumer Sector. For other articles in this series see the **Future of Consumer** pages of our website or contact Rachel Montagnon



Rachel Montagnon Consumer and IP Professional Support Consultant, London T +44 20 7466 2217 M+44 7809 200 590 rachel.montagnon@hsf.com

HERBERTSMITHFREEHILLS.COM

BANGKOK

Herbert Smith Freehills (Thailand) Ltd T +66 2657 3888 F +66 2636 0657

BEIJING

Herbert Smith Freehills LLP Beijing Representative Office (UK) T +86 10 6535 5000 F +86 10 6535 5055

BELFAST

Herbert Smith Freehills LLP T +44 28 9025 8200 F +44 28 9025 8201

BERLIN

Herbert Smith Freehills Germany LLP T +49 30 2215 10400 F +49 30 2215 10499

RDISRANE

Herbert Smith Freehills T +61 7 3258 6666 F +61 7 3258 6444

BRUSSELS

Herbert Smith Freehills LLP T +32 2 511 7450 F +32 2 511 7772

DUBAI

Herbert Smith Freehills LLP T +971 4 428 6300 F +971 4 365 3171

DÜSSELDORF

Herbert Smith Freehills Germany LLP T +49 211 9755 9000 F +49 211 9755 9099

FRANKFURT

Herbert Smith Freehills Germany LLP T +49 69 2222 82400 F +49 69 2222 82499

HONG KONG

Herbert Smith Freehills T +852 2845 6639 F +852 2845 9099

JAKARTA

Hiswara Bunjamin and Tandjung Herbert Smith Freehills LLP associated firm T +62 21 574 4010 F +62 21 574 4670

JOHANNESBURG

Herbert Smith Freehills South Africa LLP T +27 10 500 2600 F +27 11 327 6230

KUALA LUMPUR

Herbert Smith Freehills LLP LLP0010119-FGN T +60 3 2777 5000 F +60 3 2771 3041

LONDON

Herbert Smith Freehills LLP T +44 20 7374 8000 F +44 20 7374 0888

MADRID

Herbert Smith Freehills Spain LLP T +34 91 423 4000 F +34 91 423 4001

MELBOURNE

Herbert Smith Freehills T +61 3 9288 1234 F +61 3 9288 1567

MILAN

Studio Legale Associato in association with Herbert Smith Freehills LLP T +39 02 00681350 F +39 02 00681403

MOSCOW

Herbert Smith Freehills CIS LLP T +7 495 363 6500 F +7 495 363 6501

NEW YORK

Herbert Smith Freehills New York LLP T +1 917 542 7600 F +1 917 542 7601

PARIS

Herbert Smith Freehills Paris LLP T +33 1 53 57 70 70 F +33 1 53 57 70 80

PERTH

Herbert Smith Freehills T +61 8 9211 7777 F +61 8 9211 7878

RIYADH

The Law Office of Nasser Al-Hamdan Herbert Smith Freehills LLP associated firm T +966 11 211 8120

SEOUL

F +966 11 211 8173

Herbert Smith Freehills LLP Foreign Legal Consultant Office T +82 2 6321 5600 F +82 2 6321 5601

SHANGHAI

Herbert Smith Freehills LLP Shanghai Representative Office (UK) T +86 21 2322 2000 F +86 21 2322 2322

SINGAPORE

Herbert Smith Freehills LLP T +65 6868 8000 F +65 6868 8001

SYDNEY

Herbert Smith Freehills T +61 2 9225 5000 F +61 2 9322 4000

токуо

Herbert Smith Freehills T +81 3 5412 5412 F +81 3 5412 5413