

# The coronavirus pandemic requires us to understand food's murky supply chains

By [Cory Searcy](#) and [Pavel Castka](#)

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Six months ago, you may not have thought much about where your groceries were produced. But chances are you're thinking about it now.



Do you know where your coffee comes from? The Covid-19 pandemic has highlighted the importance of knowing about our supply chains. Here, a woman carries harvested coffee beans in a coffee plantation in Munt Gorongosa, Mozambique, in August 2019. (AP Photo/Tsvangirayi Mukwazhi)

The Covid-19 crisis has put food supply chains under [incredible stress](#), and stories on shortages of everything [from meat to baking ingredients](#) have been plentiful.

But even with the increased recent attention, most supply chains remain murky. Consumers can play a key role in lifting that cloud.

Supply chain transparency has sporadically received widespread attention before. In the 1990s, Nike was famously the target of global consumer boycotts due to concerns about [working conditions](#) in its manufacturing plants.

This [consumer activism](#) forced the company to make [major changes](#), such as establishing minimum working ages, conducting regular factory audits and [publishing where](#) Nike products are made.

Despite progress, calls for consumer action on dangerous working conditions [in supply chains for a range of products continue](#).



[#FoodNextAfrica](#): Blockchain will simplify and transform supply chain traceability

Robin Fredericks 25 Sep 2019



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**An array of claims to decipher**

The Covid-19 crisis highlights the prospect of greater consumer engagement in the food supply chain. Browsing the shelves at your grocery store, you may come across a bewildering array of claims related to a product's characteristics or origins.

There are, for example, [nearly 150 different eco-labels](#) on food that certify claims about a product's environmental and social characteristics. Seafood, beef, coffee and bananas are just some of the many products [covered by eco-labels](#).

Many claims of where products come from or other characteristics, however, rest on [weak foundations](#). But consumers can push companies for continued innovation to illuminate the invisible parts of the supply chain and strengthen the credibility, transparency and veracity of their claims.

In many cases, this can be done with existing technology. Blockchain, [chemical footprinting](#) and drones are becoming more reliable as they become cheaper. They are also increasingly being used in supply chain auditing and eco-labelling, and there's scope to do much more.



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Consider the example of the [Marine Stewardship Council](#) that provides fishery and seafood traceability certification programs. The council's eco-label is "only applied to wild fish or seafood from fisheries that have been certified to (the MSC's) standard."

It uses state-of-the-art [DNA testing](#) to ensure the traceability of certified seafood, resulting in mislabelling rates of under 1%, an impressive statistic since mislabelling of seafood [can average](#) 30%.

DNA testing is not applicable to all foods, but it is rarely used despite its potential in improving supply chain integrity.



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## In-person audits are ineffective

Most supply chain certifications draw only sparingly on the latest technologies. Instead, they [rely heavily on in-person audits](#), which [can be ineffective](#).

Our [recent research](#) has shown that technology-enhanced auditing can improve the timeliness and veracity of audit data collection and analysis, which can in turn strengthen the credibility of supply chain certifications advertised to consumers. In another study, we've further found that [the Covid-19 crisis can help accelerate the use of technology in supply chain audits](#).

Technology can also increase [the resilience](#) of supply chains, so they are better able to respond to shocks like a global pandemic.

For example, technologies such as sensors, satellite imaging and cloud computing can improve visibility deep into the supply chain and improve co-ordination between suppliers and buyers. Real-time supplier monitoring can provide early warnings of potential problems such as working conditions, inventory shortages or production breakdowns.

These technologies cannot, of course, eliminate the possibility of future shortages, but they can make supply chains less likely to break.

Consumers can play a more active role in driving improvements throughout supply chains. Purchasing decisions are one key lever.



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## Consumer engagement is key

For example, consumers [have indicated](#) a willingness to pay a premium for products made under good working conditions, but the lack of trustworthy information on those conditions is a barrier. Consumers can also actively push for the sharing of more and better quality information to reduce mislabelling and other undesirable activities, such as the trade of endangered species.



Consumers can push for better quality food labelling (Rqsels)

Going further, consumers can get more directly involved in supply chain monitoring. For example, in addition to satellite imaging, [Global Forest Watch](#) has used crowd-sourcing to monitor forest change. Unilever, which makes dozens of products you'll find at your local grocery store, has used Global Forest Watch to [better understand deforestation in its supply chain](#).



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## Portable technologies on the rise

And in the near future, consumers might even be able to validate the content of food labels by using simple portable technologies. No matter how they engage, consumers need to take a more active role in promoting and demanding greater supply chain transparency.

The pandemic has more people thinking about supply chains than ever before. This increased awareness presents a chance for consumers to become more engaged in where and how products they buy are produced.

Consumers need to push for more transparency and higher veracity information on where products come from, but they also need to take greater responsibility for what they buy and to participate wherever they can in supply chain monitoring.

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