Case Study: Giant Tiger Prawn from Vietnam to the UK

GLOBAL DIALOGUE on Seafood Traceability

Enabling the conveyance of traceability data on black tiger shrimp supply chain using Global Standards 1 (GS1)'s Electronic Product Code Information Services (EPCIS) XML schema.

Use Case Tested

This pilot enabled the conveyance of traceability data on aquaculture shrimp in an ASC-certified supply chain, from hatchery forward through raising, harvesting, primary processing, secondary processing and packaging, and retail in the UK. Going through multiple supply chain actors, this pilot tested interoperability between several different digital solutions. The pilot also tested the GDST standard in its application toward the ASC chain of custody standard.

Challenges

Feed provenance was difficult to confirm. Thus this pilot just covers the hatchery to retail stages of a Giant Tiger Prawn supply chain. Data collection required coordinating across multiple companies and 3 locations in Vietnam, through to secondary processing and distribution to retail in the UK.
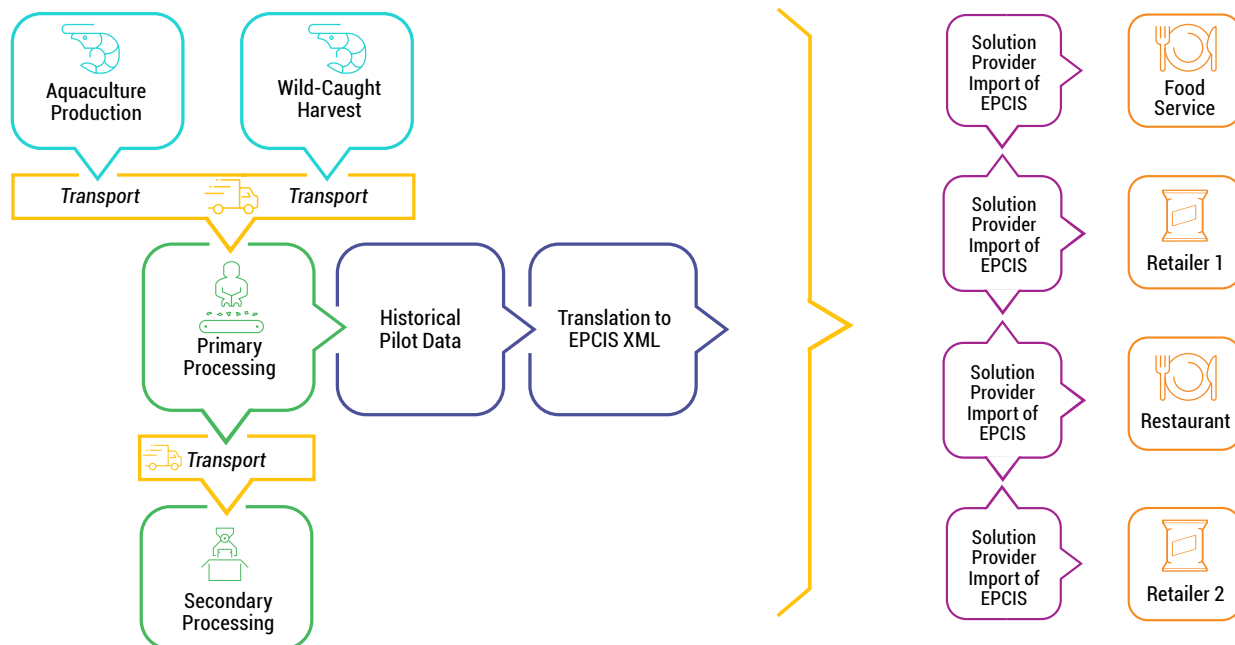
Next Steps

Sea Farm and the broader parent Seafresh group is looking to implement GDST across all of their supply chains. They used this pilot to test needs and impacts of implementation. They, in conjunction with other ASC-certified seafood companies are working with ASC to do an extended beta test across several different commodities, geographies and solution providers.
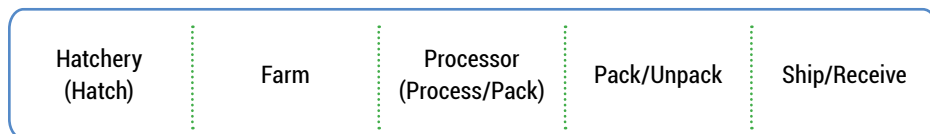
Methodology

This pilot tested interoperability in another aquaculture shrimp supply chain. Traceability data was collected by Global Dialogue on Seafood Traceability (GDST) co-conveners Institute of Food Technologists' Global Food Traceability Center and the World Wildlife Fund for Nature. The data was then translated into GS1's EPCIS XML schema to test interoperability between the subsidiaries' systems of a seafood product company in GDST.

The advantages of EPCIS are that it is designed to be used to represent visibility data within the supply chain and is well-suited for housing traceability data through its Critical Tracking Events (CTEs). Many supply chain partners, especially processors, distributors, and retailers used GS1 standards of identification and data sharing, including EPCIS. The file was developed through the collection of historical traceability data, translation to EPCIS, and testing with retail partners and their respective solution providers.

GDST

| Data Collection of Supply Chain KDEs/CTEs (Simplified Example Shown) | Data Conversion | Interoperability Testing Downstream from Processing |

Critical Tracking Events

Hatchery (Hatch)	Farm	Processor (Process/Pack)	Pack/Unpack	Ship/Receive

Supply Chain

Shrimp Hatched in Vietnam → Shrimp Raised/Harvested in Vietnam → Primary Processing in Vietnam → Secondary Processing/Packaging in UK → Retail in the UK

Catch Method

NA - aquaculture

Commodity

Giant Tiger Prawn (*Penaeus monodon*)

Geographic region

Shrimp hatching, raising, and harvesting in Dam Doi, Vietnam. Primary processing in Camau Province, Vietnam; Export to and secondary processing and packaging in Worchestershire, UK. Retail in the UK.

Participants

Sea Farms is part of the Seafresh Group and together with ProChaete and Blue Earth Foods has a long established history within the warm water prawn business, processing and delivering quality seafood to processers and retailers from integrated global sources most of which are from operations owned or controlled by our group.

Sea-farms.com

Sainsbury's is the second largest chain of supermarkets in the United Kingdom, with a 16.0% share of the supermarket sector, and approximately 1,500 locations. Founded in 1869, by John James Sainsbury with a shop in Drury Lane, London, the company became the largest retailer of groceries in 1922 and had £28.456 billion in revenue in 2018.

Sainsburys.co.uk

The Global Dialogue on Seafood Traceability (GDST) (also referred to as the Dialogue) is an international, business-to-business platform established to advance a unified framework for interoperable seafood traceability practices. The Dialogue brings together a broad spectrum of seafood industry stakeholders from across different parts of the supply chain, as well as relevant civil society experts from diverse regions.

The Dialogue is catalyzing the development of interoperable practices that will:
· Improve the reliability of seafood information
· Reduce the cost of seafood traceability
· Contribute to supply chain risk reduction
· Contribute to securing the long-term social and environmental sustainability of the sector.

traceability-dialogue.org

Get involved

Is your company involved commercially in the seafood supply chain?

Would you like to participate in the Dialogue?

Please fill out our application form or contact us:

Thomas Burke tburke@ift.org | Frank Terzoli frank.terzoli@wwfus.org

Applying is understood as an expression of interest in active participation, but does not create any commitments. Registered participants will receive invitations to on-line and in-person meetings of Dialogue working groups, and will be kept fully informed of the Dialogue process. Registration does not commit any participating organization or individual to attend meetings or to endorse the final Dialogue results.