

# Case Study: Vessel Level Collection of EPCIS Data using TrazApp

#### **Use Case Tested**

This pilot established that all CTE and KDE data can be collected, stored, and sent using the EPCIS schema starting at the vessel level. This use case was tested in the Peruvian jumbo squid and mahi mahi fisheries using multiple traceability solutions and the GDST standard and could easily be replicated in other supply chain scenarios.

### **Challenges**

Ensuring tools developed for capturing digitized fishing event information are equipped to store and share the key data elements and critical tracking events using the EPCIS and GDST Standard.

### **Next Steps**

While the vessel data collection app, TrazApp, was able to collect, store, and send the GDST KDEs to Trace Register using the EPCIS data model, a subsequent pilot should validate TrazApp's ability to send and receive live data through an EPCIS Query interface.

### Methodology

TrazApp and Trace Register participated in the pilot conducted by the Global Dialogue on Seafood Traceability (GDST) to test interoperable sharing of supply chain data. Traceability data was collected by fishers in the Peruvian mahi mahi fishery using the TrazApp system loaded on their smartphones to digitally record the GDST KDEs for their daily catch. Throughout the course of the pilot, the TrazApp system was modified to support the required KDEs for EPCIS and GDST, to allow for standardized data sharing between TrazApp and Trace Register.

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. WWF-Peru, the developer of TrazApp, worked with Plenumsoft to design the system to collect the data using the EPCIS schema starting from the fishing event. This allows for end-to-end interoperable traceability and represents an important milestone in digitizing data at the beginning of the supply chain in an interoperable way.

## **Supply Chain**







#### **Catch Method**

Longline (mahi mahi) or jigs (jumbo squid)

## **Geographic Region**

Peru EEZ

### **Participants**







The Global Dialogue on Seafood Traceability (GDST) is GDST is an international, business-to-business platform established to advance a unified framework for interoperable and verifiable seafood traceability. The GDST brings together more than eighty companies from around the globe and across different parts of the seafood supply chain. In March 2020, after a multi-year industry-led drafting process, the GDST released the first-ever global standard (GDST 1.0) governing information content and data formats specifically for seafood traceability systems. Learn more at traceability-dialogue.org.



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