

CASE STUDY

Benefits Evaluator for Seafood Traceability



Using the Benefits Evaluator for Seafood Traceability

The Seafood Alliance for Legality and Traceability (SALT) partnered with Future of Fish to develop the Benefits Evaluator for Seafood Traceability (BEST) tool. This tool serves as a guide for traceability practitioners, helping them measure and evaluate the effectiveness of eCDT programs in harnessing social, ecological, and economic benefits. The following case study explores the ways in which the Benefits Evaluator for Seafood Traceability (BEST) tool can serve seafood businesses and fisheries.

Background

The country Oceanus is a large fishing nation that is currently losing economic value and ecological health of its fisheries due to high levels of illegal fishing. This is especially the case for their biggest export fishery—tuna—which, over recent years, has suffered from poor reputation and limited market access due to the high levels of IUU fishing.

The Ministry of Fisheries has been pushing for “technological development and management” of the ocean economy, including their fisheries. The Ministry is focused on improving their estimates of IUU and their ability to detect red flags around legal working conditions. However, the various agencies within the ministry have all decided to go about this process independently. This emphasis on technology has led to an explosion of fragmented data capture and sharing systems across the many different governing authorities.

The Challenge:

Numerous government agencies are separately collecting large numbers of key data elements (KDEs) from fishers and other supply chain actors. There is significant overlap in data collected by government agents through the use of a variety of systems. Some data collection and storage methods are electronic, and some are paper-based (decentralized system).

The Opportunity:

Funding is available to test an “ideal” eCDT program pilot that has been designed to reduce IUU and increase market access for legal products from Oceanus. The goal is to demonstrate to the various government agencies that MORE benefits can be realized through collecting fewer KDEs and streamlining data collection/sharing technology (centralized system).

They want to set up a monitoring protocol to evaluate the success of the pilot. The government officers used the BEST to identify the data and associated metrics that can help determine whether or not this program is reducing IUU and achieving one or more of the following benefits: "Improved Estimates of IUU" and "Improved Ability to Rapidly Detect Red Flags around Legal Working Conditions."

Follow the steps below to see how the Benefits Evaluator for Seafood Traceability (BEST) tool is used in this scenario:



Step 1

The Oceanus Ministry of Fisheries head is interested in ecological, social, and economic benefits. In Column 1 under Benefit Type they select all three benefits. Then clicked OK.

Filter Sort More Search Data

Benefit Type: All Benefit - Outcome: All Hardware or Software: All Input Data (KDEs): All Reset

Benefit Type	Benefit - Outcome	Hardware or Software	Input Data (KDEs)	Metric	Evaluate	
1	Cost Savings	Automated Data Upload and Validation	Multiple	% KDEs Automatically Uploaded per Fishing Trip	# Of Staff Hours Spent per Month	
2	Social	Improved Ability to Rapidly Identify Red Flags Indicating Potential Violations of Human or Labor Rights	Cameras	Days at Sea	% Trips That Stay Within Contractual Working Hours - Days at Sea and Hours Worked per Day	# Of Trips Triggered by the Fleet
3	Social	Improved Ability to Rapidly Identify Red Flags Indicating Potential Violations of Human or Labor Rights	e-Documents	Multiple	# Of Electronically Retained Documents	# Of Retainers Compared

Step 2

The official went to the second filter of Benefit Outcome and selected "Improved Estimates of IUU" and "Improved Ability to Rapidly Detect Red Flags around Legal Working Conditions". Then clicked OK.

Benefit Type: All Benefit - Outcome: Improved Ability to Rapidly Detect Red Flags around Legal Working Conditions Hardware or Software: All Input Data (KDEs): All Reset

Benefit Type	Benefit - Outcome	Hardware or Software	Input Data (KDEs)	Metric	Evaluate	
1	Economic	Improved Estimates of IUU		% KDEs Automatically Uploaded per Fishing Trip	# Of Staff Hours Spent per Month	
2	Social	Improved Ability to Rapidly Identify Red Flags Indicating Potential Violations of Human or Labor Rights	Cameras	Days at Sea	% Trips That Stay Within Contractual Working Hours - Days at Sea and Hours Worked per Day	# Of Trips Triggered by the Fleet
3	Social	Improved Ability to Rapidly Identify Red Flags Indicating Potential Violations of Human or Labor Rights	e-Documents	Multiple	# Of Electronically Retained Documents	# Of Retainers Compared

Step 3

In the third filter, Hardware or Software, the official selects the technology and hardware they have or plan to have for their eCDT program. In this case only e-logbooks and VMS are part of the pilot, but not cameras or other technology or software. Then clicked OK.

Filter Sort More Search Data

Benefit Type: All Benefit - Outcome: Improved Ability to Rapidly Detect Red Flags around Legal Working Conditions Hardware or Software: VMS, e-Logbook Input Data (KDEs): All Reset

Benefit Type	Benefit - Outcome	Hardware or Software	Input Data (KDEs)	Metric	Evaluate
1	Social	Improved Ability to Rapidly Identify Red Flags Indicating Potential Violations of Human or Labor Rights		% Trips That Stay Within Contractual Working Hours - Days at Sea and Hours Worked per Day	# Of Trips Triggered by the Fleet
2	Social	Improved Ability to Rapidly Identify Red Flags Indicating Potential Violations of Human or Labor Rights	VMS, e-Logbook	# Of Electronically Retained Documents	# Of Retainers Compared
3	Social	Improved Ability to Rapidly Identify Red Flags Indicating Potential Violations of Human or Labor Rights	Government License Database	% Of Fleet with All Legal Licenses and Registrations	# Of Trips Triggered by the Fleet



Step 4

For the filter, Input Data KDEs, the official is interested in all possible benefits from their eCDT program. They select “All Input Data KDEs” to find out what is recommended. The official then clicked OK.

Benefit Type: All | Benefit - Outcome: All | Hardware or Software: All | Input Data (KDEs): All

Search Data

Benefit Type	Benefit - Outcome	Hardware or Software	Input Data (KDEs)	Metric	Evaluation
1 Economic	Cost Savings			DEs Validated through Automatic check per Trip	# Of Stat Hours Spent Correctly
2 Social	Improved Ability to Rapidly Identify Red Flags Indicating Potential Violations of Human Labor Rights			Trips That Stay Within Contractual Working Hours - Days at Sea and Hours Worked per Day	# Of Trips Triggered by the Fleet

Search: All, Bycatch ID, Completed, Crew Manifesto, Days at Sea, Hours Worked per Day, Landing Date and Date of Information was Analyzed, Location Where Catch was Caught/Harvested, Location of Vessel, Multiple, On Board Working Conditions

OK | Cancel

Step 5

The government official then downloads their plan for measuring and evaluating their eCDT program.

Benefit Type: All | Benefit - Outcome: Improved Abili... | Hardware or Software: VMS,e-Logbook | Input Data: All

Search Data

More: Export as CSV, Export as Excel, Export as PDF, Export as HTML, As Zoho Sheet

Benefit Type	Benefit - Outcome	Hardware or Software	Input Data (KDEs)	Metric	Evaluation
1 Ecological	Improved Estimates of IUU	VMS	Days at Sea	% Of Trips with Date and Duration Data	Increase % Component
2 Ecological	Improved Estimates of IUU	VMS	Trip Date	% Of Fleet with Date and Duration Data	Increase % Component
3 Social	Improved Ability to Rapidly Identify Red Flags Indicating Potential Violations of Human or Labor Rights	e-Logbook	Days at Sea	% Trips That Stay Within Contractual Working Hours - Days at Sea and Hours Worked per Day	# Of Trips Triggered by the Fleet

Step 6

The government official determines the appropriate frequency of data collection every three months, and begins collecting metrics on day one of their pilot. The government official monitors the data every three months to see if an action should be taken.