



BACKGROUND ON TRACEABILITY

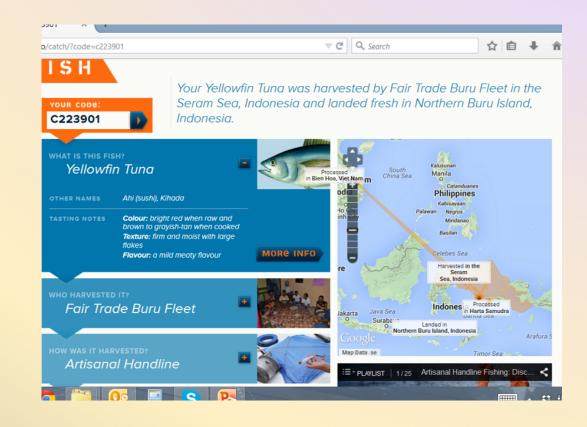


2014-2016

- Improving Fisheries Information and Traceability for Tuna (IFITT) project
 WUR, ThisFish
- Develop FT COC on the field

2012- Now

ENUMERATION PORT SAMPLING (IFISH)







2017 -Now

- Continue working on TBTs
- Develop app for port sampling
- Develop software solution for processor

2015 - 2017

The Technology innovations towards sustainability in Indonesia's tuna supply chains / Traceability Based on technology (TBT)

Wageningen, Dalhousie, IPB, Anova, Harsam, ThisFish





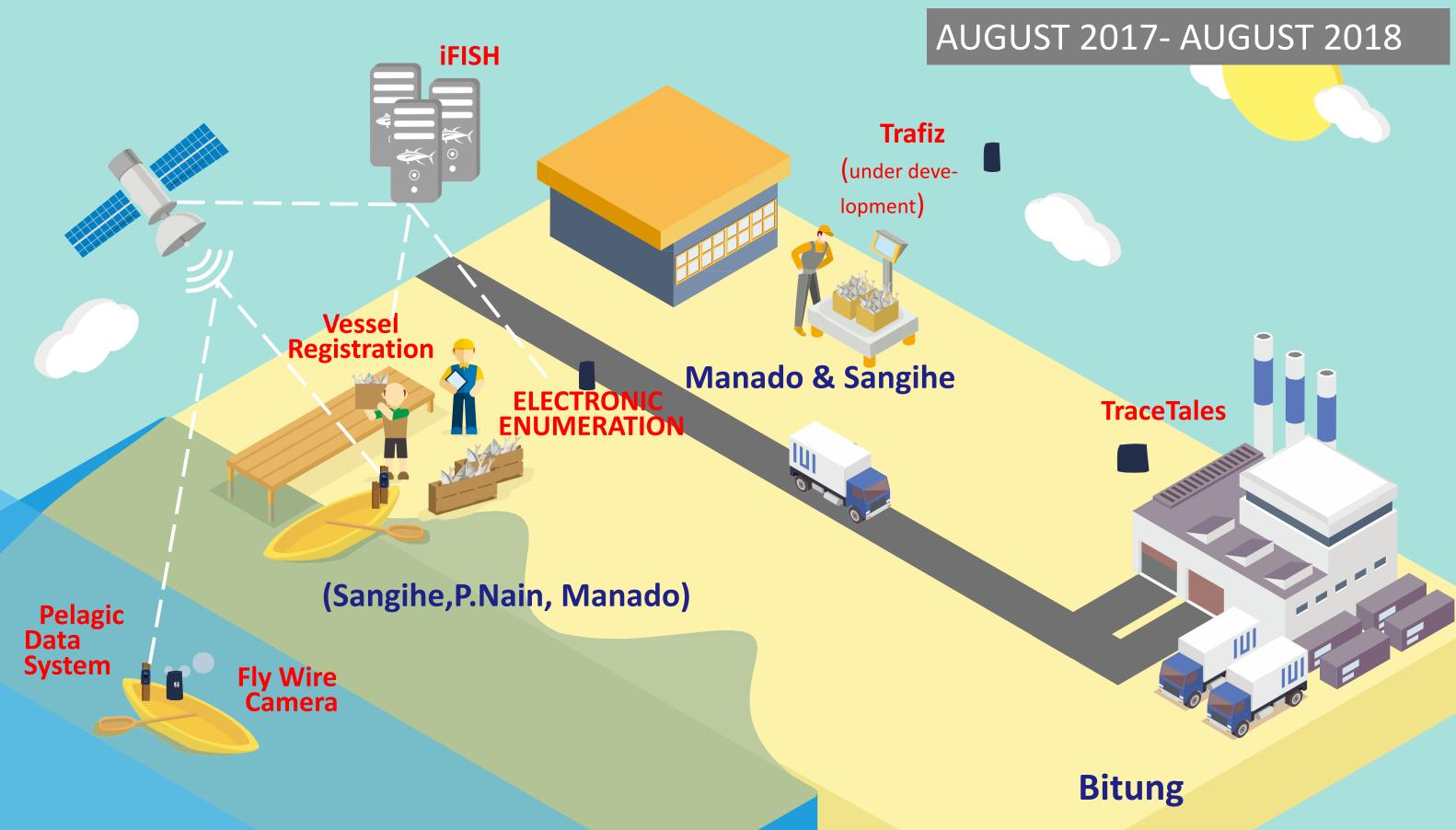
TRACEABILITY BASED TECHNOLOGY (TBTs) IN SMALL SCALE TUNA FISHERIES





TBT UNDER USAID OCEANS PROJECT















1. Support Vessel registration





Pendaftaran Kapal Ikan Skala Kecil di Manado

Dokumen untuk Kapal Perikanan Skala Kecil : 1. Pas Kecil (diurus di KSOP kota Manado) 2. BPKP (diurus di Dinas Kelautan dan Perikanan Kota)

Berkas yang diperlukan untuk mendaftarkan Pas Kecil : 1. Surat Fermikan Fengukuran 2. KTP Femilik Kapal dan Fengurus

- Surat Kateuangan Tulsang dan Kelurahan diletahui Camat bermaterai Ø
 Surat Keteuangan Hak Milik Kapal dari Kelurahan diletahui Camat ber-

- Surat Kuasa dari Pemilik Kapalke Pengurus (Per lapal)
 Biaya urtuk Ahli Ukur dan Marine Officer dari KBOP (Transpannis) Rp. 500,000 / hari untuk 5 orang petugas

Berkas yang diperlukan untuk mendaftarkan BPKP :

- Fotolopi Pan Hecil dan Sertifikat kelayakan Kapal dari KSOP

- 5. Fotokopi KTP Pemilik Kapal

intuk kelengkapan Form Surat Permohonan, Surat Keterangan ukang Surat Keterangan Hak Milik Kapat dan Surat Kuasa bisa senghuhungi-Petugas Penda Jiaran Kapat MDPI

Nomor yang bisa dihubungi : KSOP Kota Manado : Ibu Majumi 081340716607 DKP Kota Masado : Ibu Reni Lumintang 085340480296 etugas Pendaftaran Kapal MDPI : Monang Simanjuntak (086384037710)







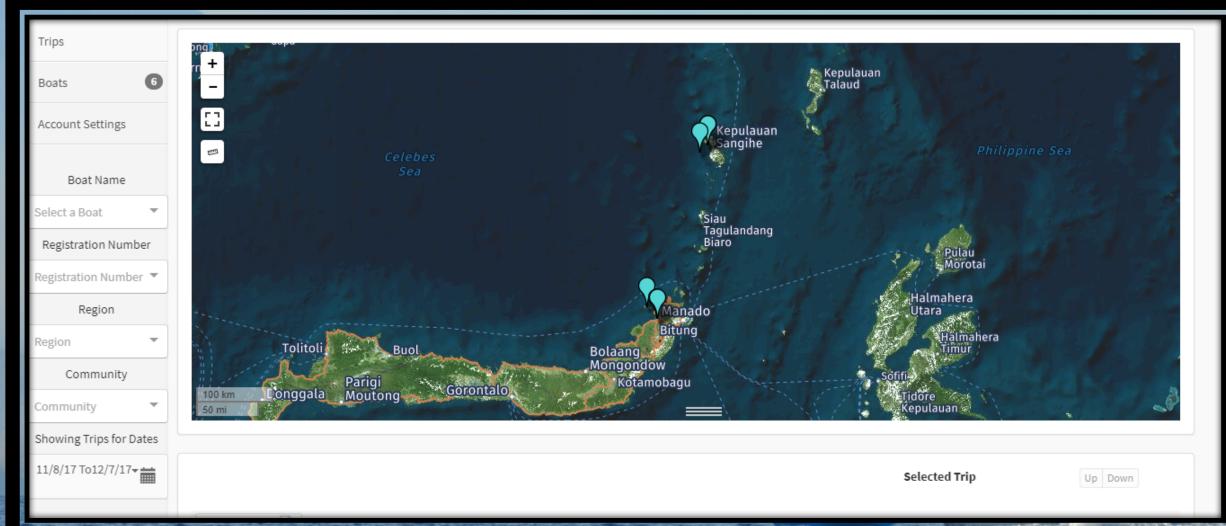




2. Deploy Pelagic Data System











3. Deploy Electronic Monitoring (Onboard camera)











4. Food safety and fish Handling Training











1. Electronic Enumeration-Ifish Apps





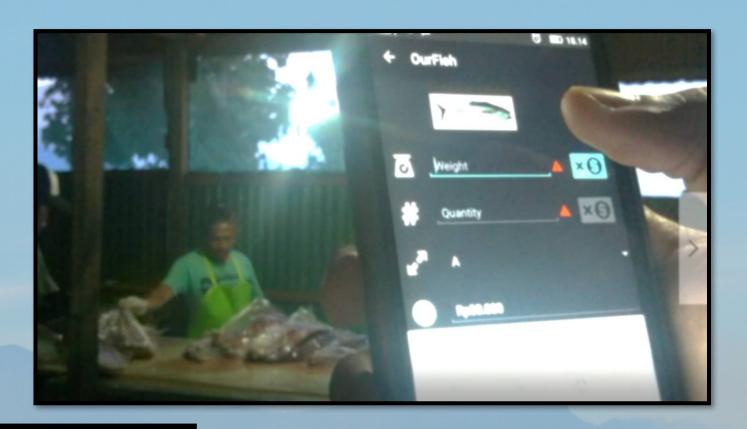






2. Support Development of Supplier apps (Trafiz)















1. Deploy TraceTales















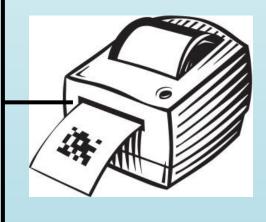
Advantages

- 1 Reduce data errors
- 2 Reduce Paper
- Improved traceability and inventory tracking
- Real-time data analytics on yields and productivity
- Electronic data sharing and interoperability
- Easy to customized
- 7 Affordable

















Data Entry Mechanism





USER FRINDLY, TOUCH SCREEN







CAPTURING VALUE FROM WEIGHT SCALE INDICATOR





QR CODE SCANNER

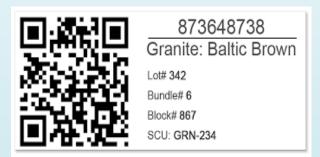




MANUAL ENTRY











Output Result



QR Code label

- Label after processing and for boxing



Print out report

-Invoice and Packing Slip

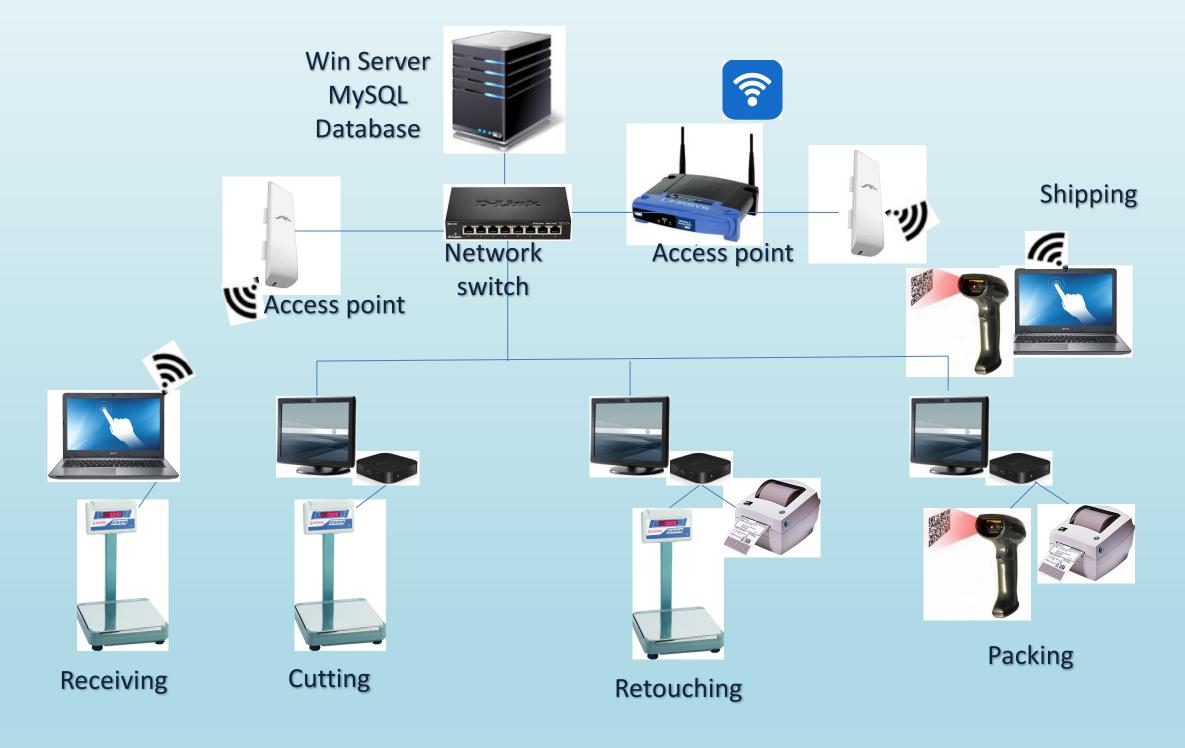


CSV File Export CSV file





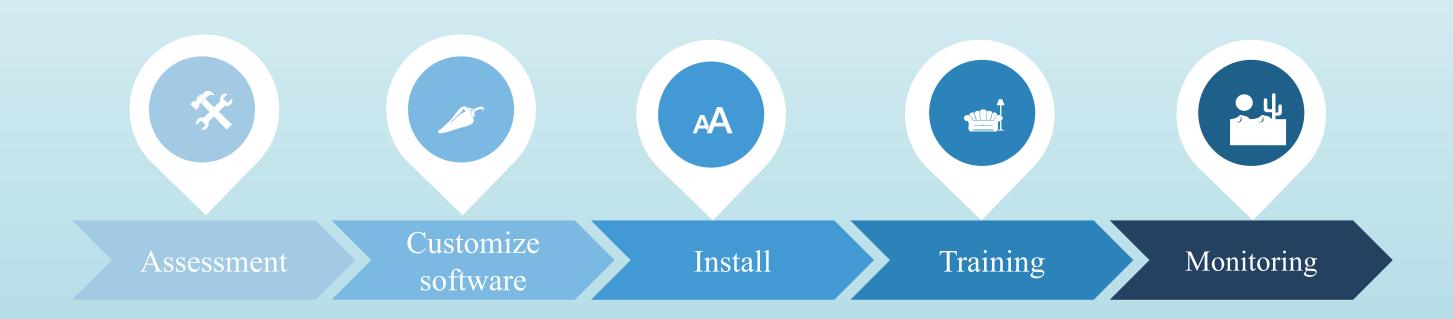
Network Architecture







IMPLEMENTATION PROCESS



- Flow Process
- Documentation
 - Electricity
- Internet connection
 - Meeting with company team
- -Customized software based on assessment -Stakeholder review

Install hardware
Install software

- TraceTales function
 - Entering data
 - Problem solving
 - Analising data
 - MonitoringHardware andsoftware

Customer support and monitoring during implementation.

(Software Hardware)

(Software, Hardware, feedback)





TraceTales in Bitung







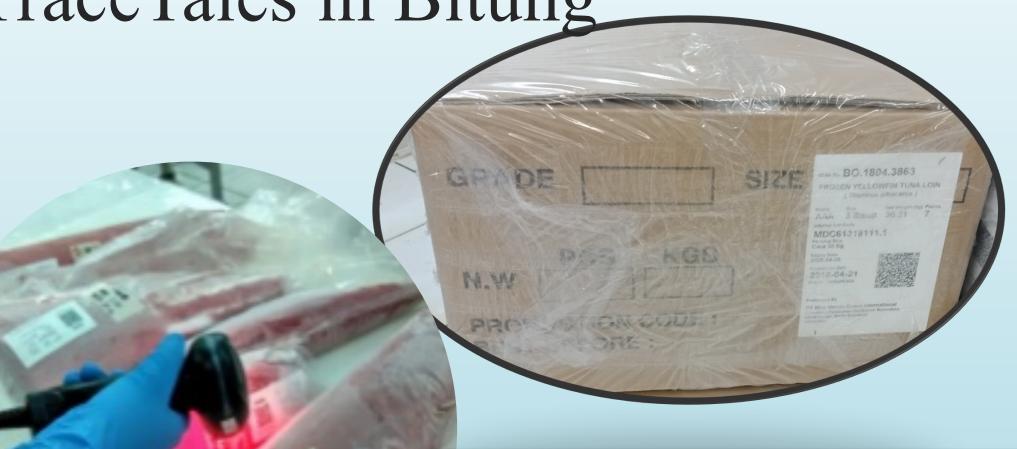


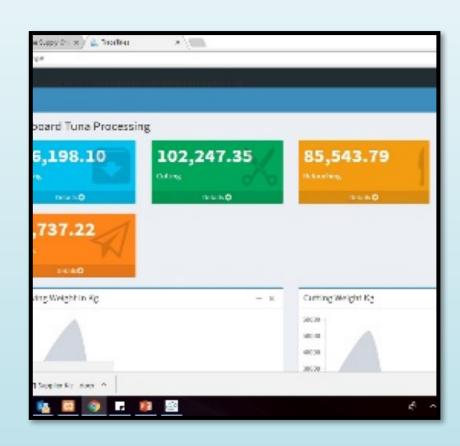






TraceTales in Bitung









THREE MONTHS IMPLEMENTATION RESULTS



- EFFECTIVE FOR CAPTURING DATA
- REDUCE PACKING TIME
- ABLE TO PRINT INVOICE AND PACKING LIST AFTER LOADING
- SEND DATA TO BUYER QUICKLY
- SOME STAGE NOT USING PAPER TALLY ANYMORE
- EASIER FOR CHECKING THE INVENTORY
- ABLE TO ANALYSE YIELD PRODUCTION QUICKLY





Lesson Learn



- Previous experiences for implementing TBT support better development of the software
- People very welcome with technology
- Technology create effectivity and efficiency withing fish production and also very usefull for traceability
- Some consideration for using technology:
 - > Electricity
 - > Internet
 - > Hardware cost (incl maintenance)
 - > Availability hardware in local country
 - > Skill of the people

