



CORAL TRIANGLE INITIATIVE

ON CORAL REEFS, FISHERIES AND FOOD SECURITY



Place here
Country
Logo

Workshop on Catch Documentation and Traceability (CDT) System Design and Development based on Ecosystem Approach to Management of Fisheries (EAFM)
25-26 June 2019 / Dili, Timor Leste

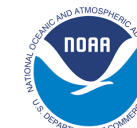
Solomon Islands

Presented by Charlyn Golu and Derrick Tagosia

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Outline



- Overview of Ministry of Fisheries and Marine Resources: inshore and offshore fisheries
- Catch Documentation Scheme (CDS)
- Challenges with our current CDS manual system
- eCDT
- Challenges with our current eCDT system
- Recommendations

National Fisheries Laws & Regulations



- Fisheries Management Act 2015
- Fisheries Management Regulation 2017
- Fisheries Management Regulation 2018 (Prohibited fisheries activities)
- Beche-de-mer (Amendment) Regulation 2014



Inshore division

Research

Aquaculture

Marketing

Community-based Resource Management
(CBRM)

- Research- Conduct baseline surveys for concerned coastal species.
- Aquaculture- Seaweed, Tilapia and Sea cucumber
- Marketing- Mobile and electronic platform to collect species biology (Life history) and market data.
- CBRM- increase the knowledge and skills of community through awareness and training programs



Offshore division

Licensing

- E-license

Statistics and Information

Observer Program

Compliance

E-Monitoring program

- Licensing
 - Offshore
 - Onshore processing
 - Export permits
 - Provincial, recreational and spot fishing.

Statistics and Information Division

- Data collection and entry into database system.
- Data analysis and report
- Pre-license inspection



Observer Program

100% coverage on Purse Seine and Pole and
Line

5% on Longline

- Observation and collect data onboard fishing vessels
- Port sampling activities
- Biological sampling activities
- MSC monitoring



Catch Documentation Scheme(CDS)



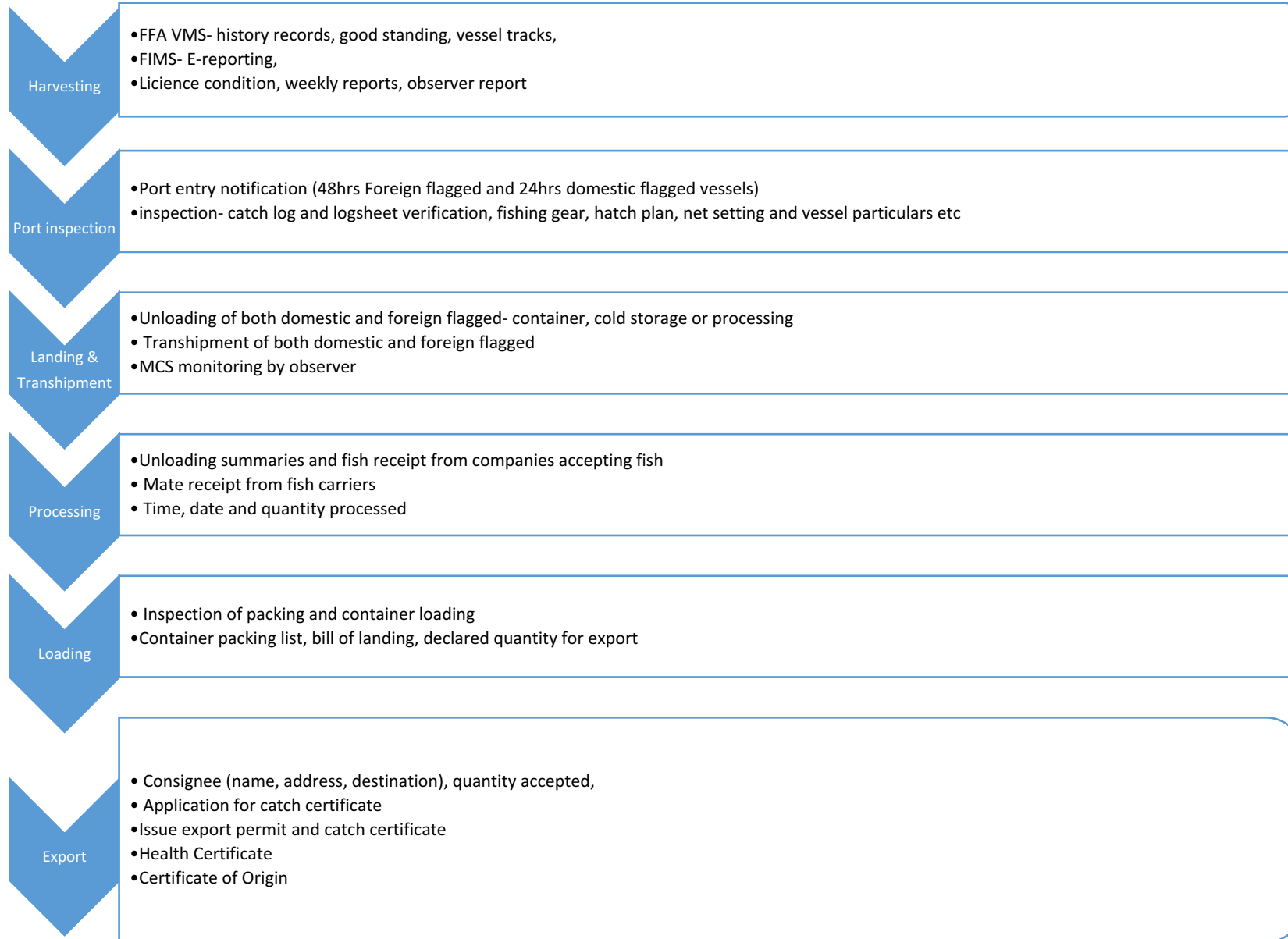
- Verification of vessel legality
- Boarding and inspection (at sea and in port)
- Monitoring of transshipment and landing
- Container loading, cold storage and processed quantity (traceability on fish movement)
- Inspection of processed product for export
- Issue of export permit and
- Fish accountancy
- Catch certificate
- Health Certificate
- Certificate of Origin

Compliance section

- Monitoring Control and Surveillance (MCS)/PSM
- Standard operation procedure
- Vessel Monitoring System
- Fisheries Information Management System (FIMS)
- Vessel weekly reports
- Observer report
- Aerial surveillance
- At sea patrol
- Landing sites and local market



CDS/ CDT Process

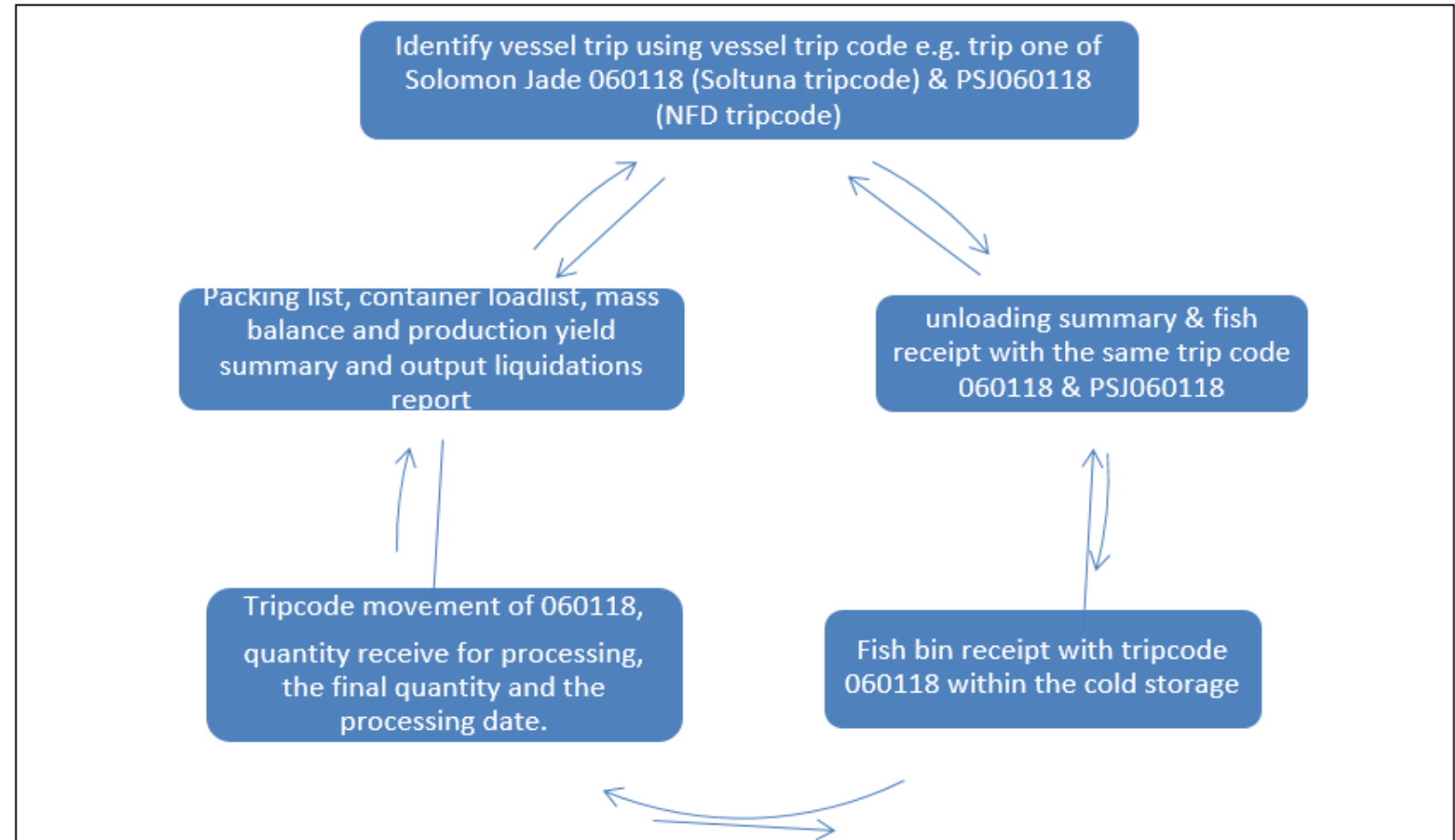




Internal traceability

Mainly on offshore processing

- Frozen fish
- Pre-cooked loin and
- Canned tuna export





CDT GAP ANALYSIS WORKSHEET

Key data elements (priority data) collected at each stage across fishery supply chain for CDT purposes

- CDT currently in place for tuna only
- Working to roll out app for e-data capture (same that PNG is using) for port to shipper steps
- All licensed vessels are using VMS and IFIMS
- Working to enhance VMS systems with e-monitoring cameras (on long-liners, those vessels that don't have observers – have already equipped 20+ vessels); e-monitoring is not real-time, footage is reviewed manually once vessel returns to port



Seafood Supply Chain	At sea capture (small scale)	At sea capture (large scale)	Port	Buyer	Shipper (land, boat; domestic)	Processor	Shipper (air or ship; export)
	Two types: - <1 ton Coastal - Pole and Line						
Typical data capture method	None for coastal fishing Paper and electronic Observer app	Electronic Paper Observer app	Paper Excel spreadsheet FIMS/ TUFMAN Database	Paper Excel spreadsheet	Paper Excel spreadsheet	Paper and electronic Excel spreadsheet	Paper Excel spreadsheet
Who	Captain/fishing master	Captain/fishing master	Company/agent/fisheries officers and government	Company & agent	Company	Company	Company/export authority
Data/Document Type	Catch log Logbook Hatch plan Net setting	Catch log- Logbook e-forms	Inspection Monitoring data Fish Receipt Mates receipt	Purchase order	Manifest of order Bill of landing	Company agency Competent authority	Catch certificate Export permit certificate of origin health certificate Bill of landing

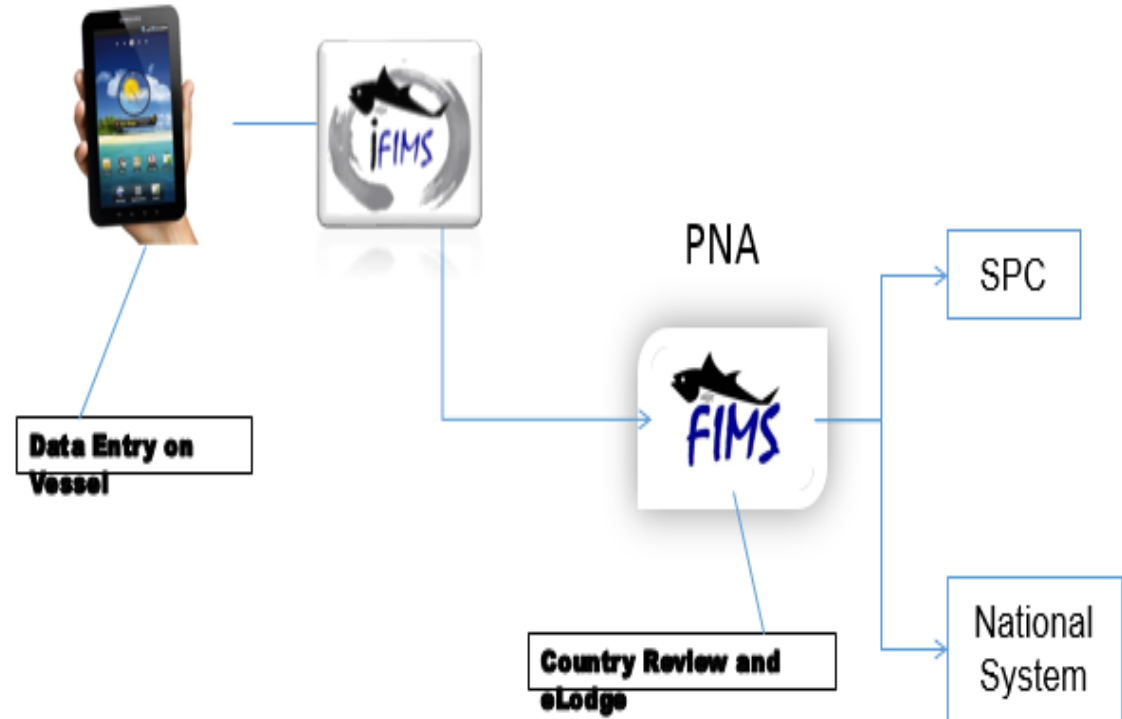


Challenges and Gaps

- Coastal fisheries
- Data collection and traceability (paper)
- Inconsistencies of reporting (paper) - logsheets
- Missing report (paper) - logsheets
- Capacity building

Vessel eReporting

- All our Vessels apply online for Fishing Licences/Permit – FIMS ELR
- All our Domestic, Locally based Foreign Purse Seiner and Longline Vessels are sending eforms via Fleet Broadband and Satellite Connections/Network.
- Implementation of E-Monitoring on Longline Vessels
- Eforms are received, verify and export into SPC TUFMAN 2
- Paperless case study – Case by case study on each vessel and recommend vessel to go into paperless trial - 2020

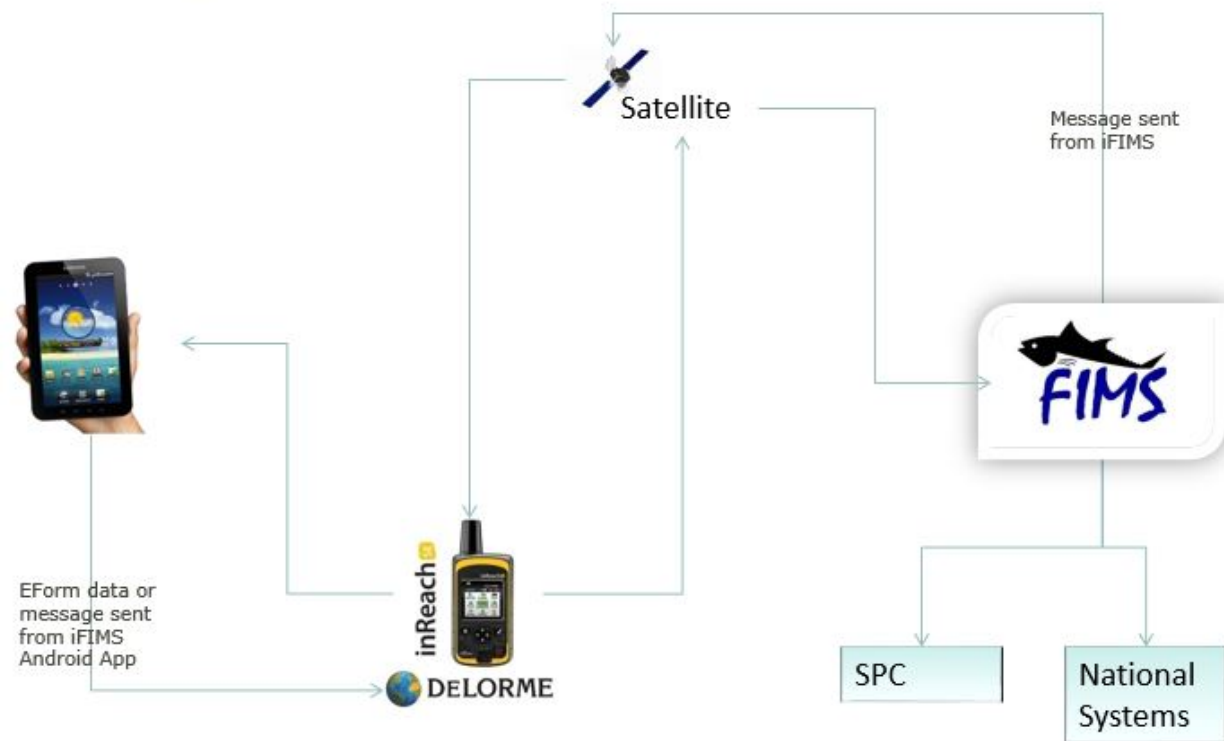




Observer eforms

- 101 active observers
- 100% use observer e-reporting (eObs)
- Observer data are use to verify vessel data (catch, activities, VDS NFD and GEN3)
- Biological sampling data
- All eforms are send to MFMR Office FIMS
- All eforms are fed into FIMS for verification and analysis

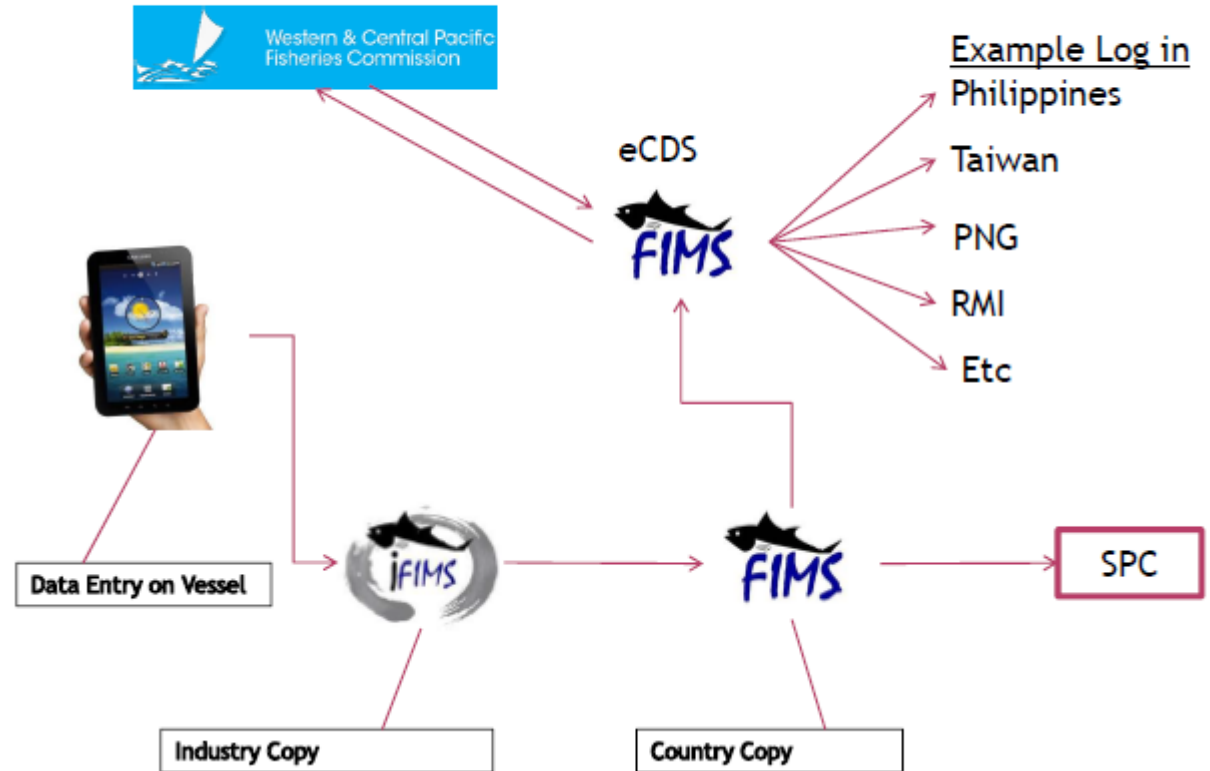
Sending eForm from Vessel



eCDT-SI



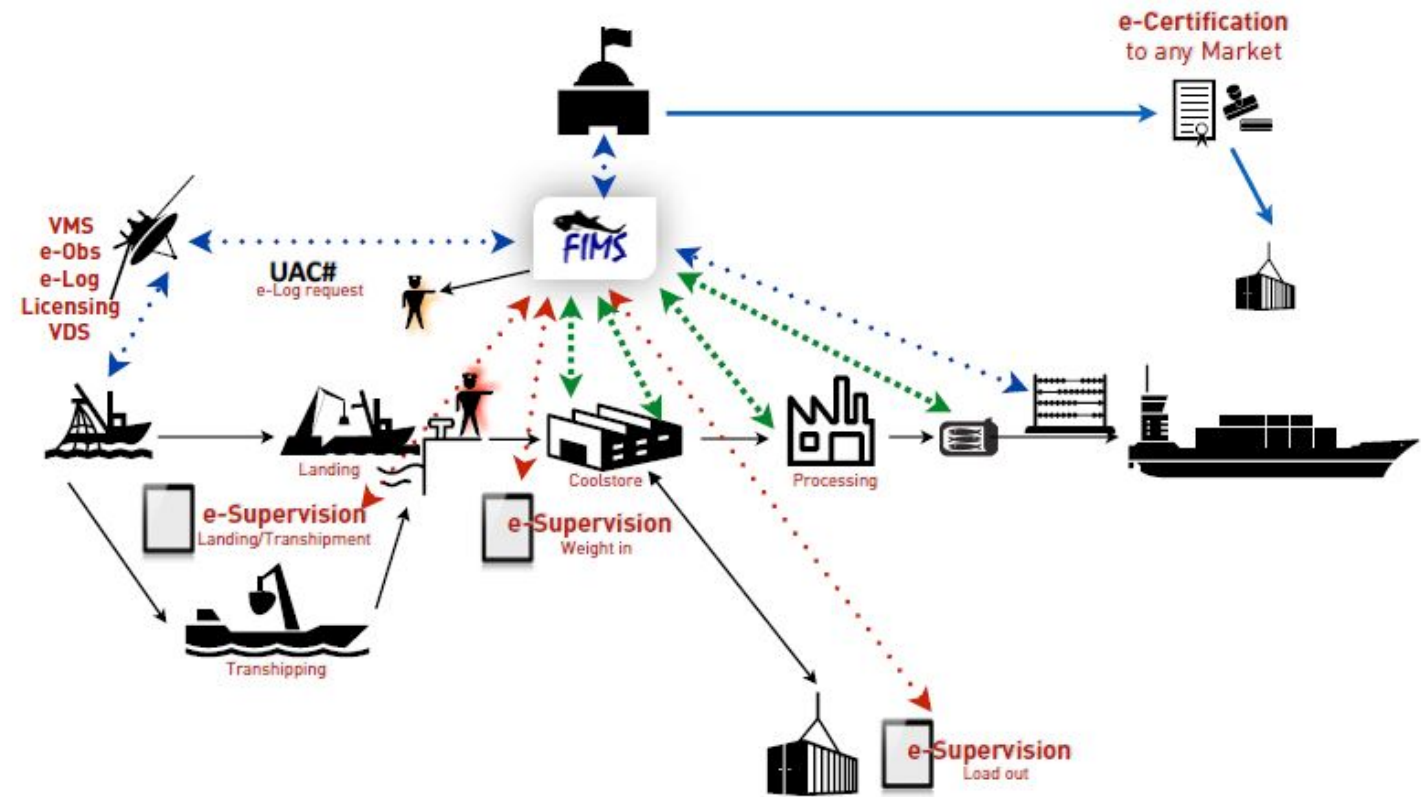
DATA FLOW





eCDT-Big Picture

- VMS
- eObs
- Elogsheets
- Licensing
- VDS





eCDT-Big Picture

- eObs
- Elogsheets
- Licensing
- VDS

USING FIMS TO VALIDATE CATCH

Catch Verification #

Summary | CDS | eLog | eObs | Licence | GEN 3 | ATIS | Documentation

Catch Start Date: 22/05/2015
Catch End Date: 24/07/2015
Status: ACTIVE

Call Sign (TRCS):
Flag State: Philippines
Registration #: 1
IMO #:
Lloyds #:

CDS Checklist:
Inshore: OK
Catching Areas: OK
Licence: OK
Observer Data: OK
GEN-3: OK
VDS: OK

Catch Verification Accepted:

.. Print Catch Verification Summary

Comments: TS catch confirmed EEZ

Species	EEZ - Papua New Guinea (mt)	TS - Papua New Guinea (mt)
Skipjack	484.95	2.67
Yellowfin - Small (< 9kg)	111.01	
Yellowfin - Large (> 9kg)	34.32	
Bigeye - Small (< 9kg)	0.01	
Bigeye - Large (> 9kg)		
Other	7.68	

Create Unloading Authorisation Code

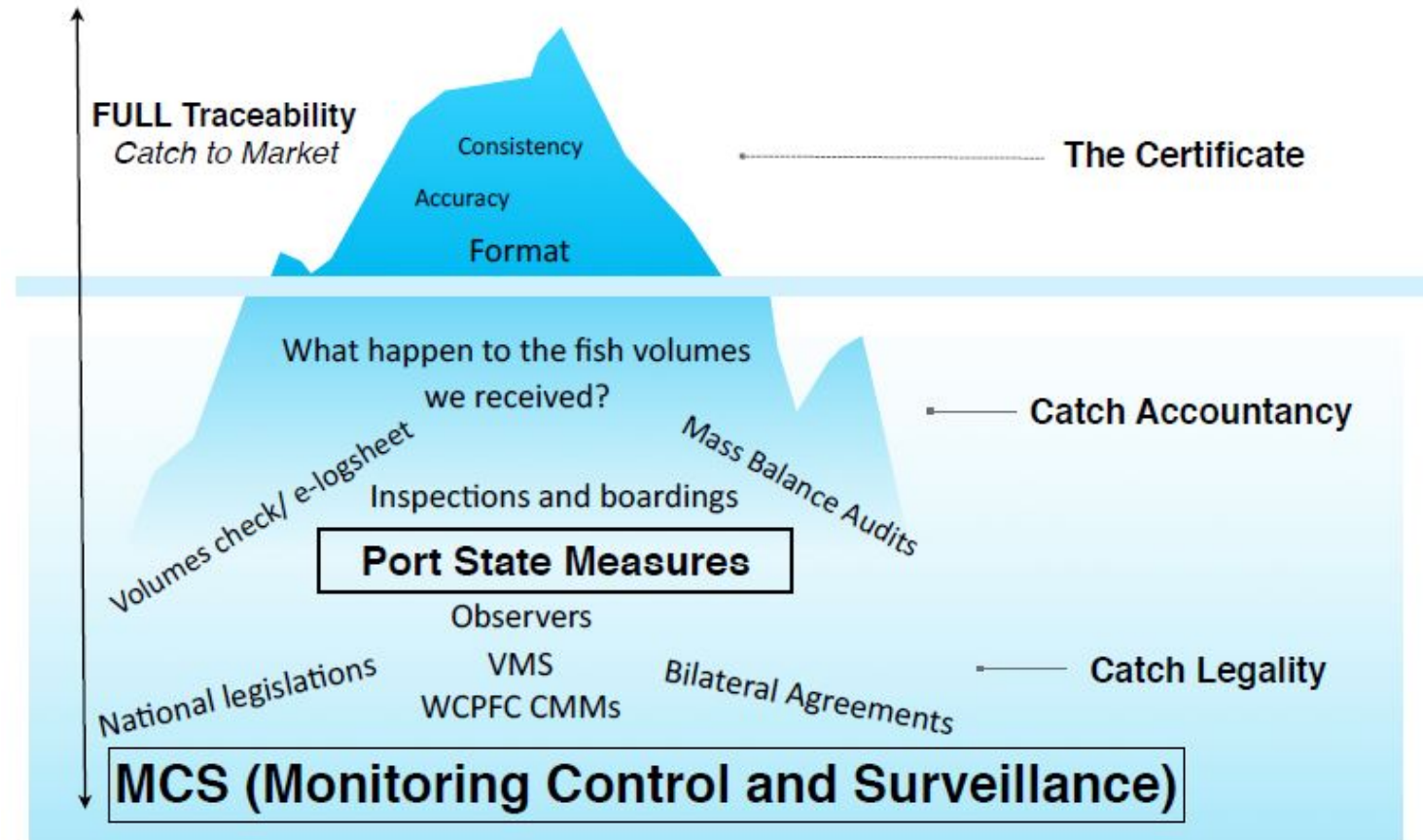
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Challenges;

- Non cooperative from Vessel Captains
- Multi Zones and Multi ports – No Data sharing Agreement
- Technology fails – On the vessels
- Human resources
- Incompatible Issues

The CDS Iceberg





Recommendations;

- Regulations/Policies/License conditions
- Single system
- Human resources

CDS needs data to provide validation and traceability at many stages



FISHERIES INFORMATION MANAGEMENT SYSTEM



TERIMA KASIH - MARAMING SALAMAT TANK IU- OBRIGADO TAGIO TUMAS

