E-MONITORING AND E-REPORTING WORKSHOP

Pacific Islands Forum Fisheries Agency Headquarters, 31 March – 1 April 2014
Honiara, SOLOMON ISLANDS

Scientific data and E-Reporting

31 March 2014

Peter Williams

Scientific data and E-Reporting

WCPFC E-Monitoring/E-Reporting Workshop

FFA Conference Centre, Honiara, Solomon Islands

31 March – 1 April 2014

Peter Williams, SPC

Presentation outline

Scientific data standards

- What currently exists ...
- What needs to be done to better support E-Reporting ...

SPC E-Reporting initiatives

- SPC's role in E-Reporting
- eTUNALOG
- eTUBS

Scientific data standards

What currently exists ...

WCPFC

- "Scientific data to be provided to the Commission"
- WCFPC Regional Observer Programme (ROP) minimum data standards

SPC/FFA Data Collection Committee (DCC)

- Established in 1995
- SPC and FFA staff, but also WCPFC and NMFS data collection experts and invited countries (two) on rotational basis
- Regional standard data collection forms
- Logsheets, observer, port sampling and unloadings forms
- Vessels licensed to fish in SPC/FFA member country EEZs
- Clear links to WCPFC scientific data standards

Scientific data standards

What currently exists ...

DCC

National requirements

National Fisheries Authorities

Regional requirements

Standardised data collection forms

FFC

Fishing companies / Vessels

WCFPC Directives (CMMs, scientific data req.)

WCFPC ROP standards

WCFPC

Completed / Submitted as a licensing condition

Scientific data standards

Problem : Lack of TECHNICAL information on data fields for E-Reporting System providers ...
(identified in Dunn & Knuckey)

A positive step ...

DCC9 (9th Meeting of the DCC / 17-18 March 2014)

- Acknowledged the move to E-Reporting
- New role to produce technical level information on standard scientific data fields
- An initial example for review and ongoing work...
- Input to WCPFC E-Reporting data standards...

Scientific data standards

DCC9 (17-18 March 2014)

SPC/FFA Regional Standard data fields – PURSE SEINE LOGSHEET

- Tabulate data fields from the regional purse seine logsheet
- Provides the necessary TECHNICAL detail...
- Nothing new ... Uses existing standardised data...
- Consistent with WCPFC Scientific data requirements...

ANNEX A.

SPC/FFA REGIONAL STANDARD DATA FIELDS – PURSE SEINE OPERATIONAL LOGSHEET DATA

Draft – version 0.3 – 27th March 2014 - NOT FOR RELEASE

This table sets out the SPC/FFA regional minimum standards for operational logsheet data fields collected in the WCPFC tropical purse seine fishery, as proposed by DCC9 (March 2014). This table is, *inter alia*, directed to third-party E-Reporting providers who have been contracted to provide systems to record logbook information on-board purse seine vessels. This table provides the precise requirements for data formats and data validation prior to submission to the national and regional fisheries authorities.

TRIP

FIELD	Data Collection Instructions	Field format notes	Validation rules	NAF CODE	XML TAG	WCPFC
TRIP IDENTIFIER	Internally generated. Can be NATURAL KEY or unique integer. NATURAL KEY would be VESSEL + DEPARTURE DATE					
VESSEL NAME	PROVIDE the VESSEL attributes which should be consistent with the attributes stored in the FFA Regional Vessel Register	CHAR(30) UPPER CASE	Must be consistent with the FFA Vessel Register	NA		Y
COUNTRY OF VESSEL REGISTRATION		CHAR(2) ISO 3166-1 alpha-2 two-letter country code UPPER CASE	ISO 3166-1 alpha-2 two-letter country code Must be consistent with the FFA Vessel Register Country of registration is distinct from the chartering nation, where relevant	FS		Y
VESSEL REGISTRATION NUMBER		CHAR(20) UPPER CASE	Must be consistent with the FFA Vessel Register			Y
FFA VESSEL REGISTER NUMBER		INTEGER(5)	Must be consistent with the FFA Vessel Register			N
UNIVERSAL VESSEL		INTEGER(10)	Must be consistent with the FFA Vessel Register			N

- Data field and description
- Instructions for collection
- Specific field picture/format
- Data Validation requirements
- Specific NAF code / XML tag
- WCPFC field ?

SPC E-Reporting initiatives

SPC's mandate is, *inter alia*, to provide technical assistance to its member countries, WCPFC, FFA, PNA ...

E-Reporting products (eTUBs and eTUNALOG) are examples of SPC responding to member countries requests

SPC is also expected to provide assistance to member countries using third-party E-Reporting products (e.g. PNG/NFA iFIMS/FIMS), for e.g.

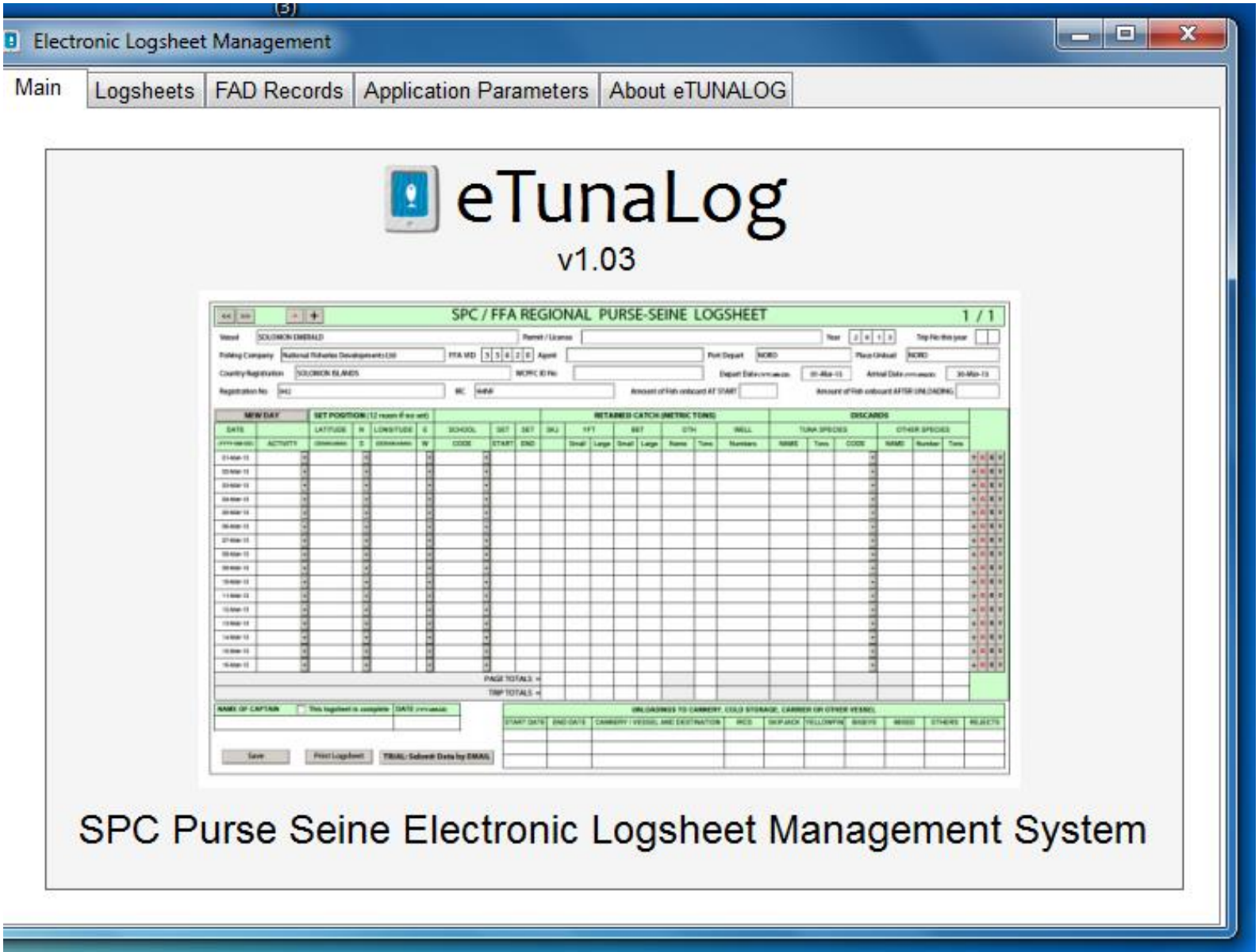
- Data loaders for national databases
- Advice on how to submit data to regional agencies
- Etc.

SPC E-Reporting initiatives

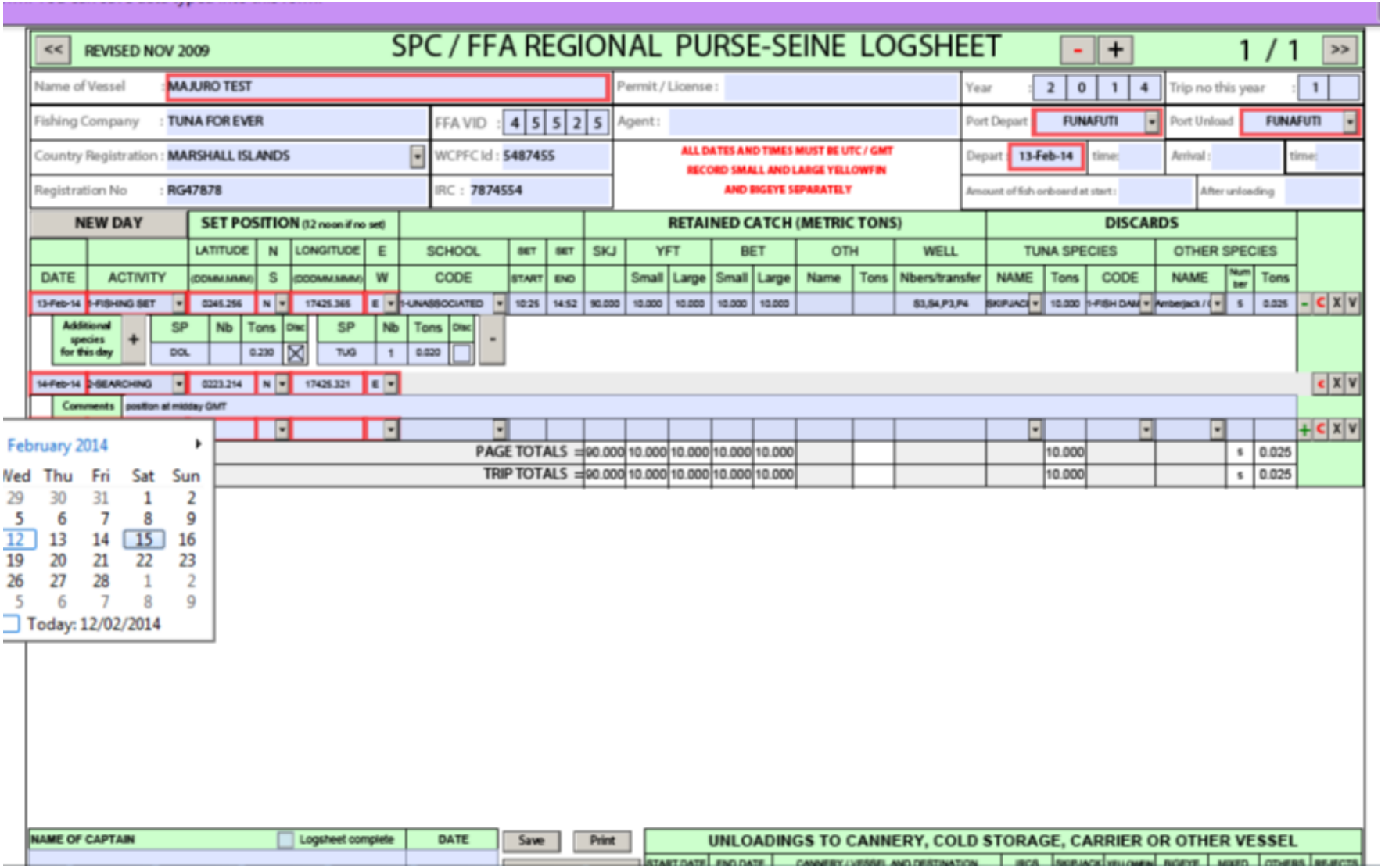
Scope of trials

- Operational catch/effort data
  - LOGBOOKS and OBSERVER data
- Improve EFFICIENCY and TIMELINESS of data collection
- INTEGRATION of data into NATIONAL and REGIONAL data systems
- Better understanding of implementation issues
- Purse seine initially, extending to longline

eTUNALOG: Electronic Logbook Reporting



eTUNALOG : "smart" PDF file with identical format as regional standard logsheet



eTUNALOG – 2013 trials

- 14 vessels since June 2013: SI, NZ, FSM, US and RMI
- Three versions were trialed *(updates thanks to user feedback)*
- Easy learning curve (standard content/layout)
- Data transmission via vessel email - efficient
  - For NFAs and SPC: XML format – 5 to 15kb
  - For companies: 'Flat' PDF format – 4 to 8 kb

2014 work plan includes …

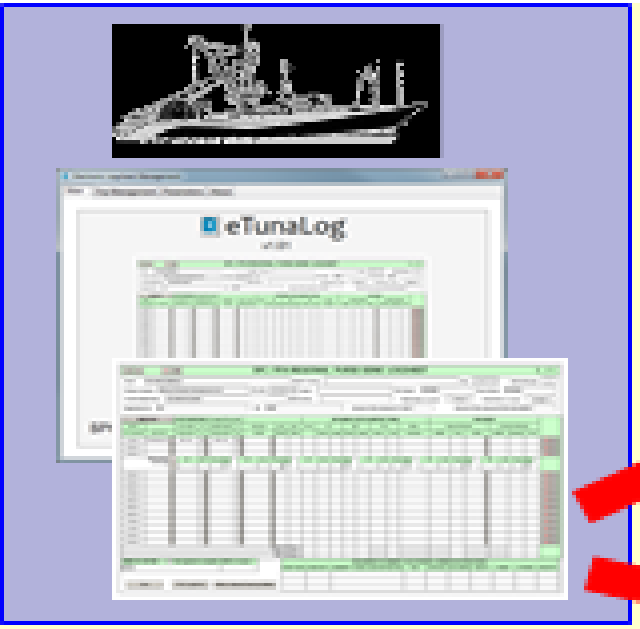
- Expand the number of vessels for trials (see fleets above)
- Longline eTUNALOG

eTUNALOG – Data integration

- National database systems (TUFMAN) have the data loader for eTUNALOG data
- FSM, RMI and Sol. Is. are uploading eTUNALOG data into their national TUFMAN databases
- The data are audited as a part of the import process ensuring quality …

.. More information on eTUNALOG is available at the SPC-OFP web site

Data Flow - eTUNALOG



Electronic Logbook
eTUNALOG

Fishing company

Email

Email

Email

National Fisheries Authority

Email

Email

Import & Audit

NationalLOGSHEET database (TUFMAN)

Regional LOGSHEET database

Secure FTP Transfer

SPC
(WCPFC)
(FFA)
(PNA)

Onboard observer data entry (eTUBs)

- Database system used by the observer to enter data on-board the vessel
- Identical database system used at SPC, WCPFC and FFA
- Comprehensive online checks to ensure data quality

- During 2013 …. 5 observers were trained - 7 trips conducted

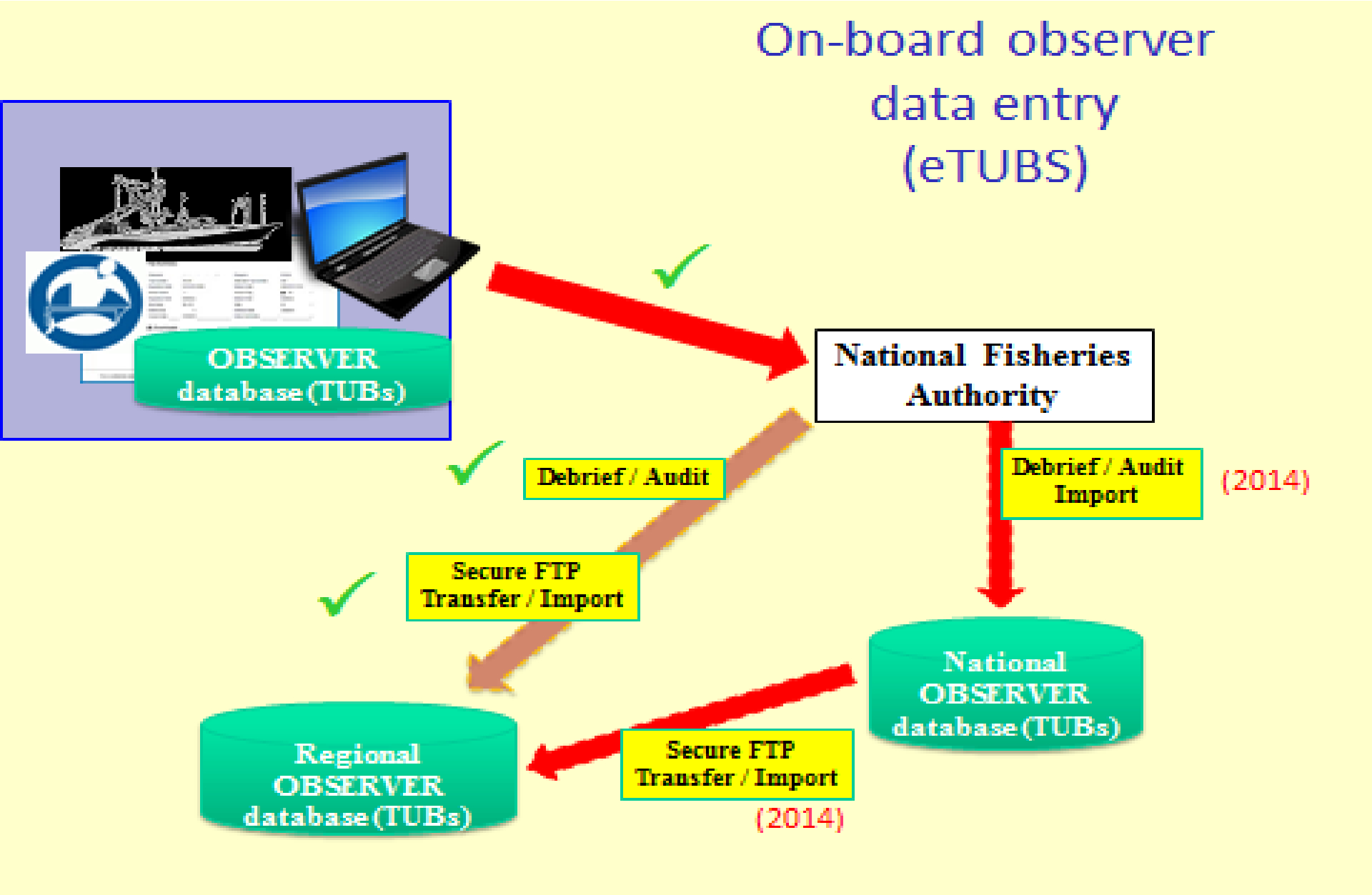
eTUBs – Outcomes / Lessons learnt

- Data quality >90% accuracy / Comprehensive online checks
- Very positive feedback from Observers

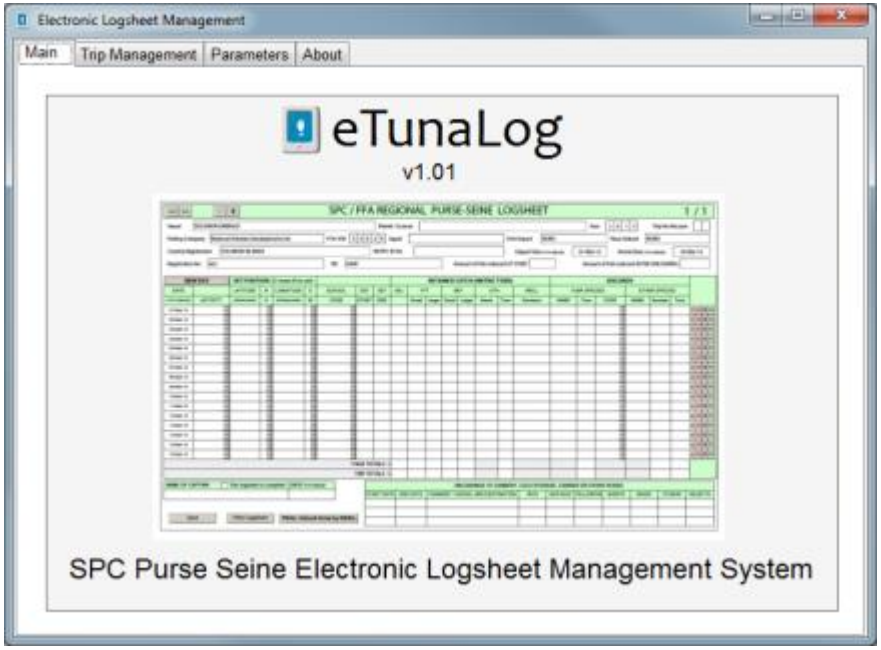
- Use tablets to record catch/size data (2014 work plan)

- CRITICAL needs for implementation
  - *Adequate TECHNICAL support in countries*
  - *Integrated E-Debriefing tools need to be developed (RIMF)*
  - *Basic computer training in courses to observers*

Data Flow with eTUBs - Observer E-Reporting



Thank you


Electronic Logsheet Management
Main
Trip Management
Parameters
About
eTunaLog
v1.01
SPC Purse Seine Electronic Logsheet Management System