E-MONITORING AND E-REPORTING WORKSHOP

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

Integrated Fisheries Information Management System (iFIMS)

31 Mar 2014

Mark Oates

integrated Fisheries Information Management System (iFIMS)

E-REPORTING SUMMARY

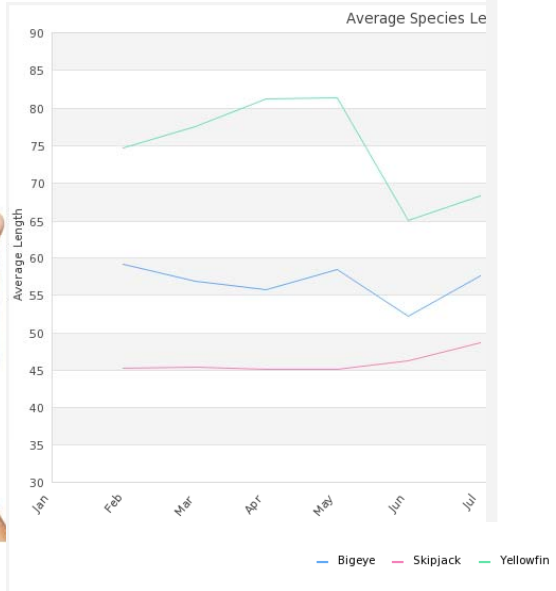
- Mark Oates – Quick Access Computing

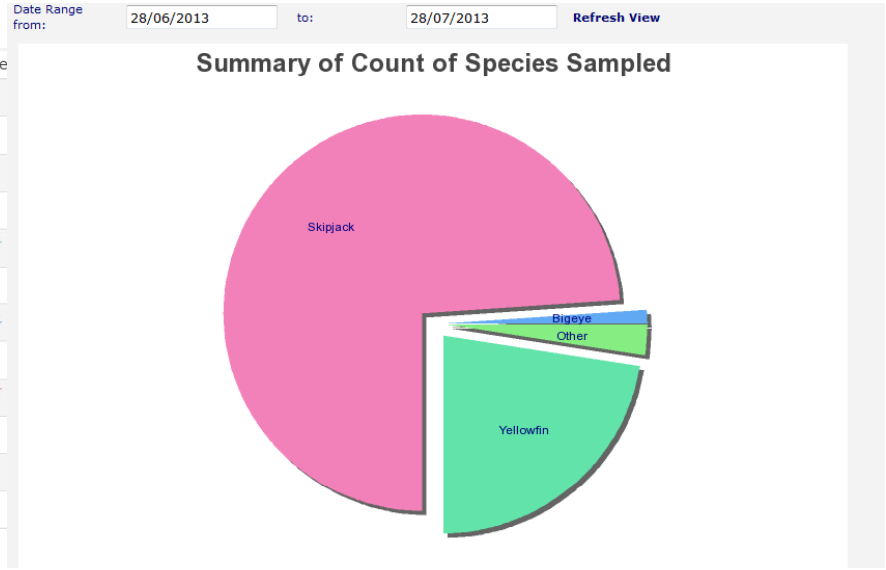
- QAC has been working with Papua New Guinea - National Fisheries Authority(NFA) for over 8 years
- FIMS is a large system built 'Fit for Purpose'
- Parties to the Nauru Agreement(PNA) - PNA FIMS - VDS is an important component
- There are many other Modules
- One new Module recent released and rolled out is for Electronic Catch Reporting
- This new component of FIMS can be utilised by FIMS Users for:
  - VDS validation
  - Catch Documentation Scheme(CDS) verification
  - Marine Stewardship Council(MSC) verification
  - Fisheries Management and MCS Purposes
- Electronic Reporting data can flow from FIMS to SPC in NAF format to improve quality and timeliness of data

ANDROID - E-REPORTING

- PNG NFA have very successfully implemented the use of Android Tablets for their Tuna Port Sampling Unit

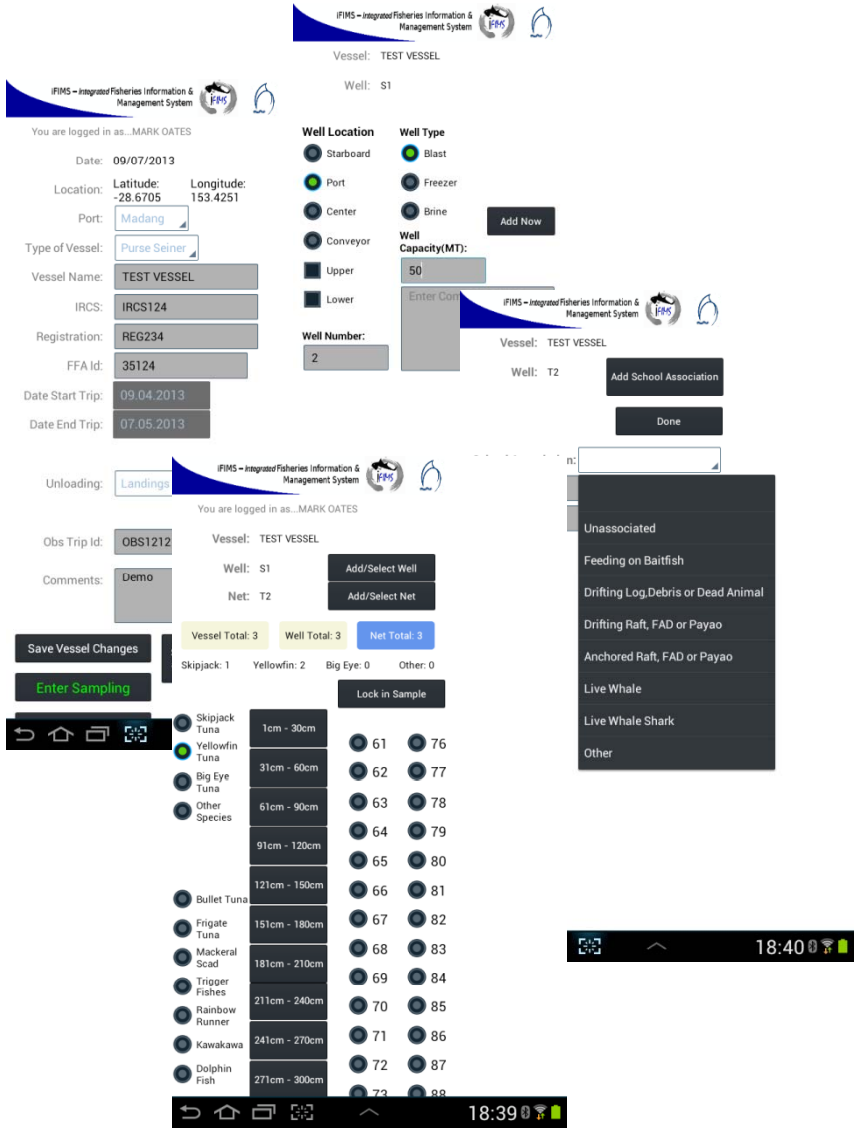
- Over 1,000,000 samples taken using eForms between March and November 2013



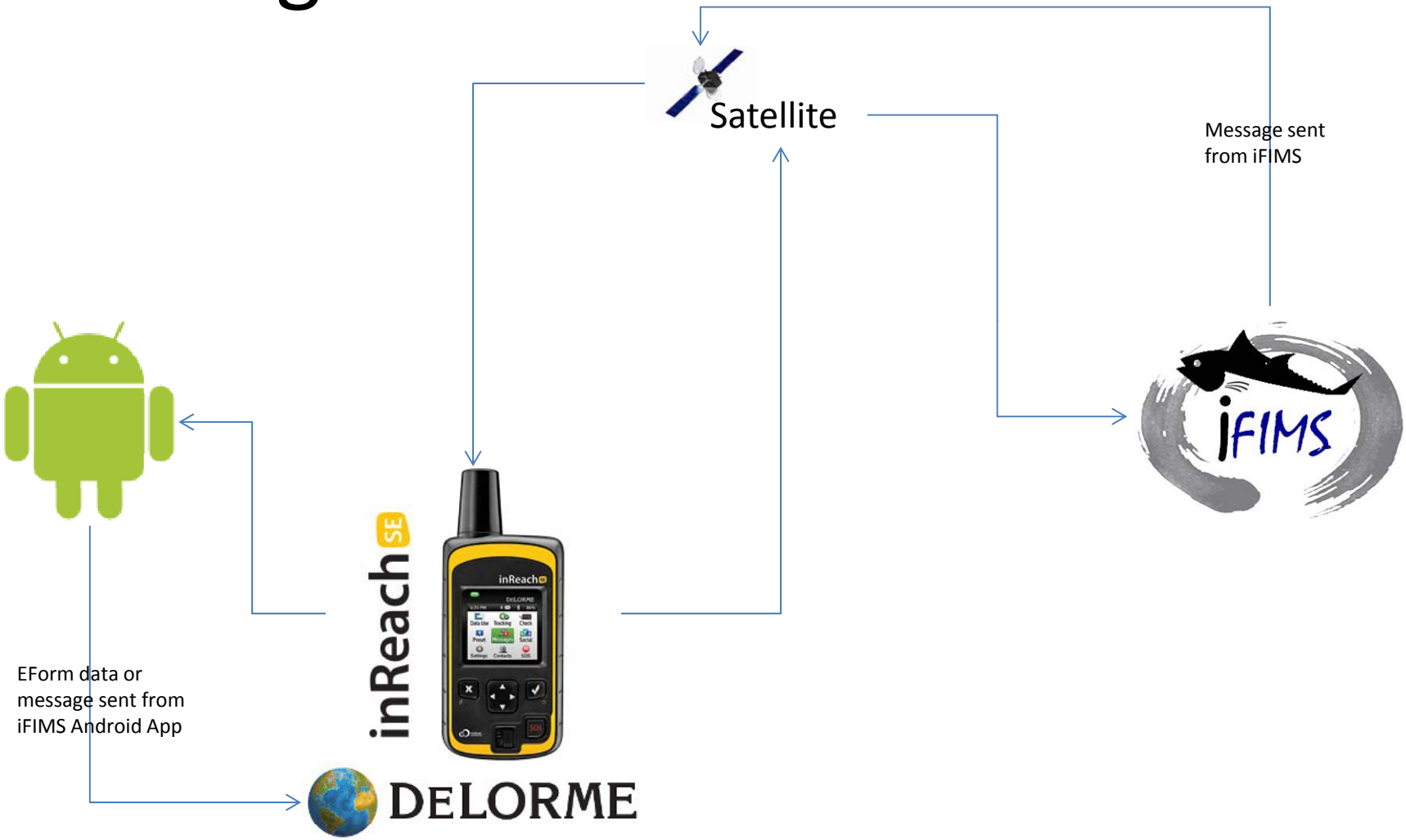


EXISTING TECHNOLOGY

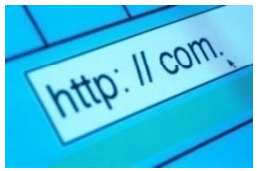
- Near Real Time Reporting
- Error checking at the point of data entry
- Does NOT need connectivity during use. Eforms stored and send when Connection becomes available.
- Connection in order of
  - Wifi
  - 3G/4G
  - inReach (Satellite)



Sending eForm



Electronic Data



Enter Data Using iFIMS Web Portal

Or Enter Data Using iFIMS Android App

Company databases

Other Govt Bodies

PNA/FFA e.g. Manual Positions

Industry Processors

Company can use iFIMS to eLodge data to Other Entities for traceability or compliance.

eLodge Non-Fishing to PNA FIMS
- PG,FM,NR,SB,MH,TV

eLodge PG Catch data for CDS and other eForms

Electronic Catch Reporting

NFA FIMS VMS - PG

iFIMS Feedback Loop
- Confirm ACCEPTED/REJECTED Non-Fishing

PNA FIMS Login for full Transparency
- VDS View - PG,NR,SB,TV Waters

PNA FIMS Data Centres - VDS

eLodge Catch data to SPC and National System in NAF Format

SPC

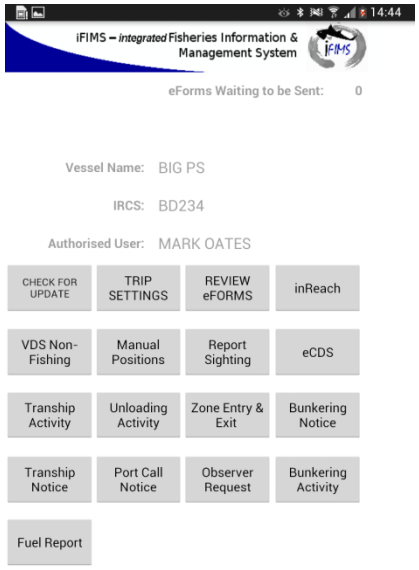
National Systems

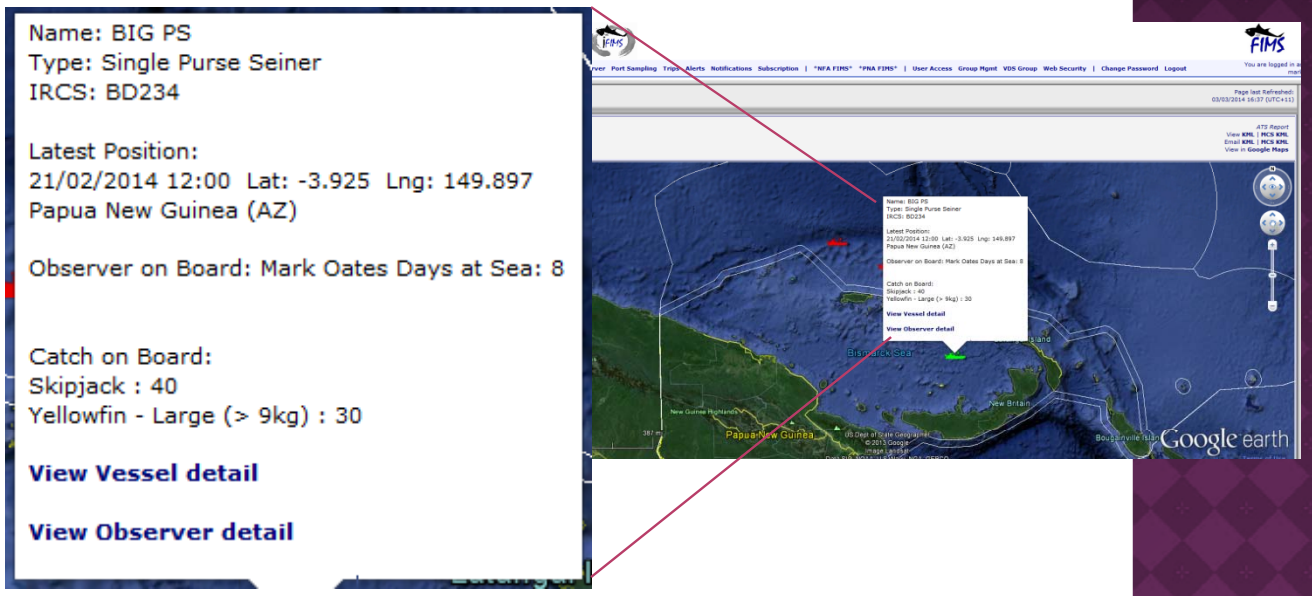
Non-PNA (UST)

NR MH KI TV SB PW FM

IFIMS - EFORMS

- iFIMS Electronic Catch Reporting has been rolled out to all PNG Bi-lateral Partners in November 2013
- Demonstrated in the Margin of the WCPFC meeting in Cairns in December 2013
- Discussions held with SPC in Cairns regarding FIMS Electronic transfer of this data to SPC in North Atlantic Format(NAF)
- Since 1st January vessels fishing in PNG Waters have lodged catch and activity data to FIMS. Many now working through their second or third trip.



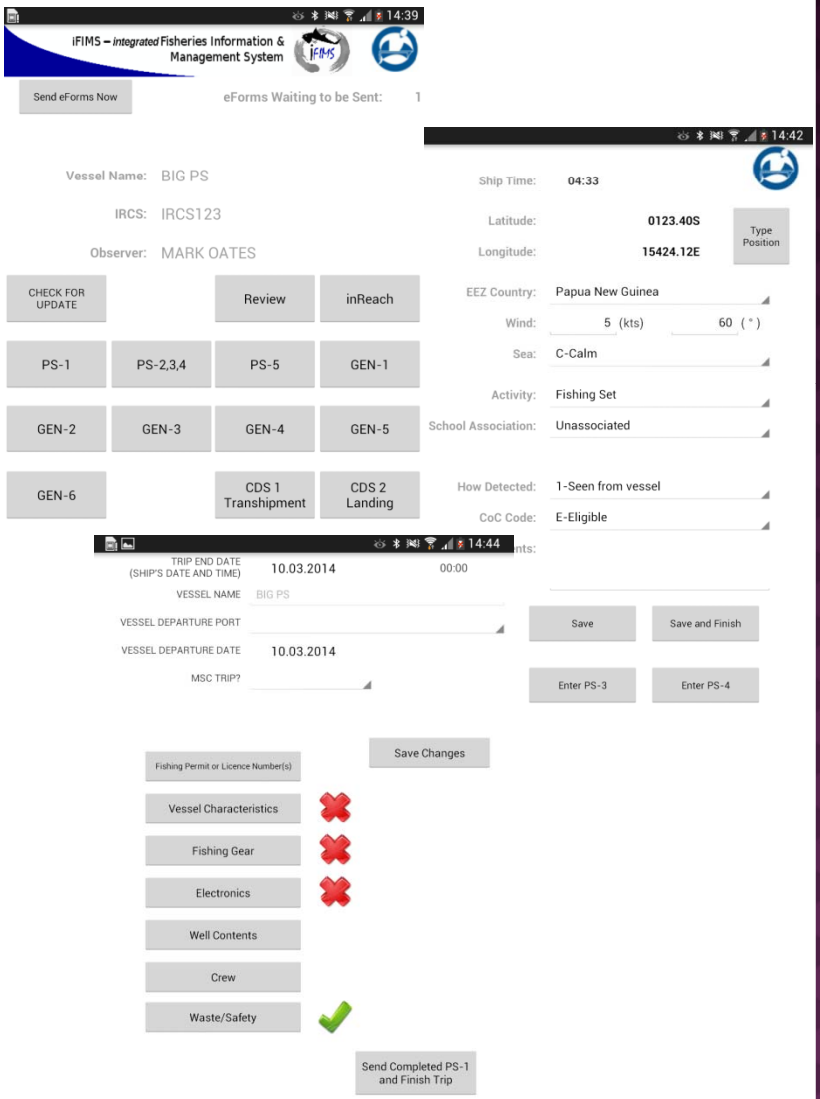


IFIMS

- 3 FIMS – NFA, PNA, iFIMS
- Separate Databases
- iFIMS – Only for Industry
- 215 Vessels currently registered on iFIMS including many FSMA
- Customised at Industry Request
- Catch Reporting and other functions available for any country
- Outputs in North Atlantic Format(NAF)

OBSERVER AND CDS - EFORMS

- CDS Android App eForms currently in Field Trials
- Observer Android App for Electronic Reporting is in Final Stages of Development with Sea Trials expected during May.
- Discussions with SPC on Error Checking Business Rules at the point of data entry and data transmission from FIMS in North Atlantic Format(NAF) to improve quality and timeliness of data



Considerations

- Develop Industry platform (multiple country availability)
- Software updates
- Work with Industry for Roll Out and Training
- Work with Fisheries Authority and PNA for
  - National/Regional Vessel Data requirements -Logbook
  - National/Regional Observer Data requirements
  - CDS requirements
  - MSC requirements
  - Other Considerations (Safety at sea)
- Data format (NAF)
- Develop Tools for Validation – VDS/CDS/MSC

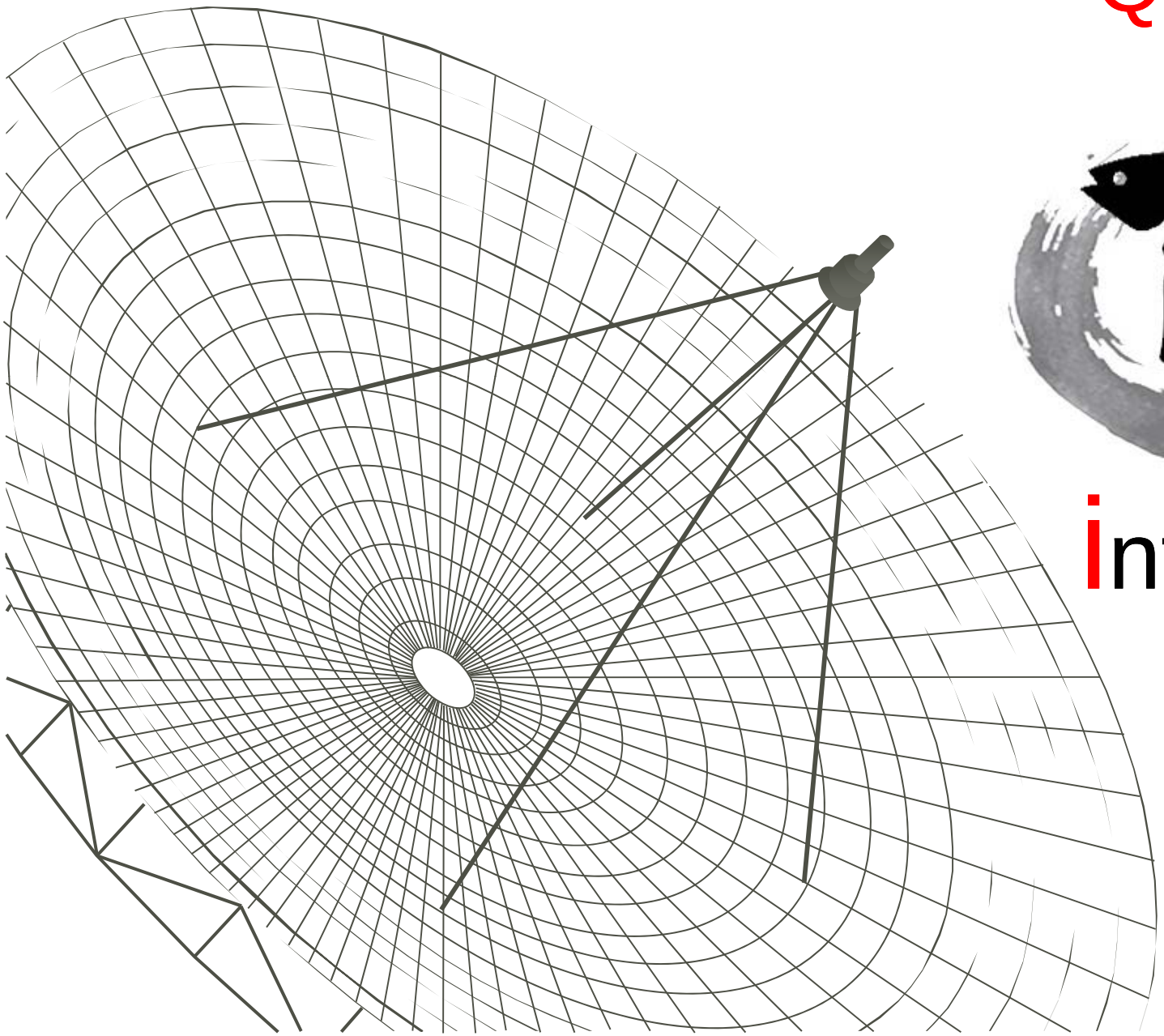
Overcoming Challenges

- Efficient use of Limited Resources in Pacific
- Security
- Hardware and Software Availability
- Data Sharing
  - Completeness of Data
    - Automated linking to VMS for missing catch reporting
    - Alerts
  - Timeliness of Data
    - MSC and CDS Rely on Timely data
    - Hardcopy Workbooks don't meet the need
    - What if there is not an Electronic Based Observer onboard?
- Industry Resistance
- Time to Deployment

Summary

- There is an Electronic Catch Reporting system already in place and being used by Purse Seine Vessels fishing in the Pacific
- This System is well adopted by Industry and is called iFIMS
- PNA FIMS is already receiving Electronic Non-Fishing from iFIMS
- PNA FIMS is system ready to receive Electronic Catch Reporting for Purse Seine Vessels from iFIMS and have this data displayed under the Trip Menu
- The Trip Menu forms an integrated part of FIMS, and there are no extra costs to PNA Office, PNA or Non-PNA parties to use this feature
- Electronic Catch Reporting data can flow from PNA FIMS to SPC and National Systems in NAF format to improve quality and timeliness of data

Questions



iFIMS

Integrated

FIMS