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The Blue Economy: Maximizing Benefits from Fisheries and Aquaculture

The Pacific Islands' approach to securing sustainable benefits from fisheries

**Meeting of Senior ACP Officials
Nassau, Bahamas – 18 Sept 2017**



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Outline of presentation

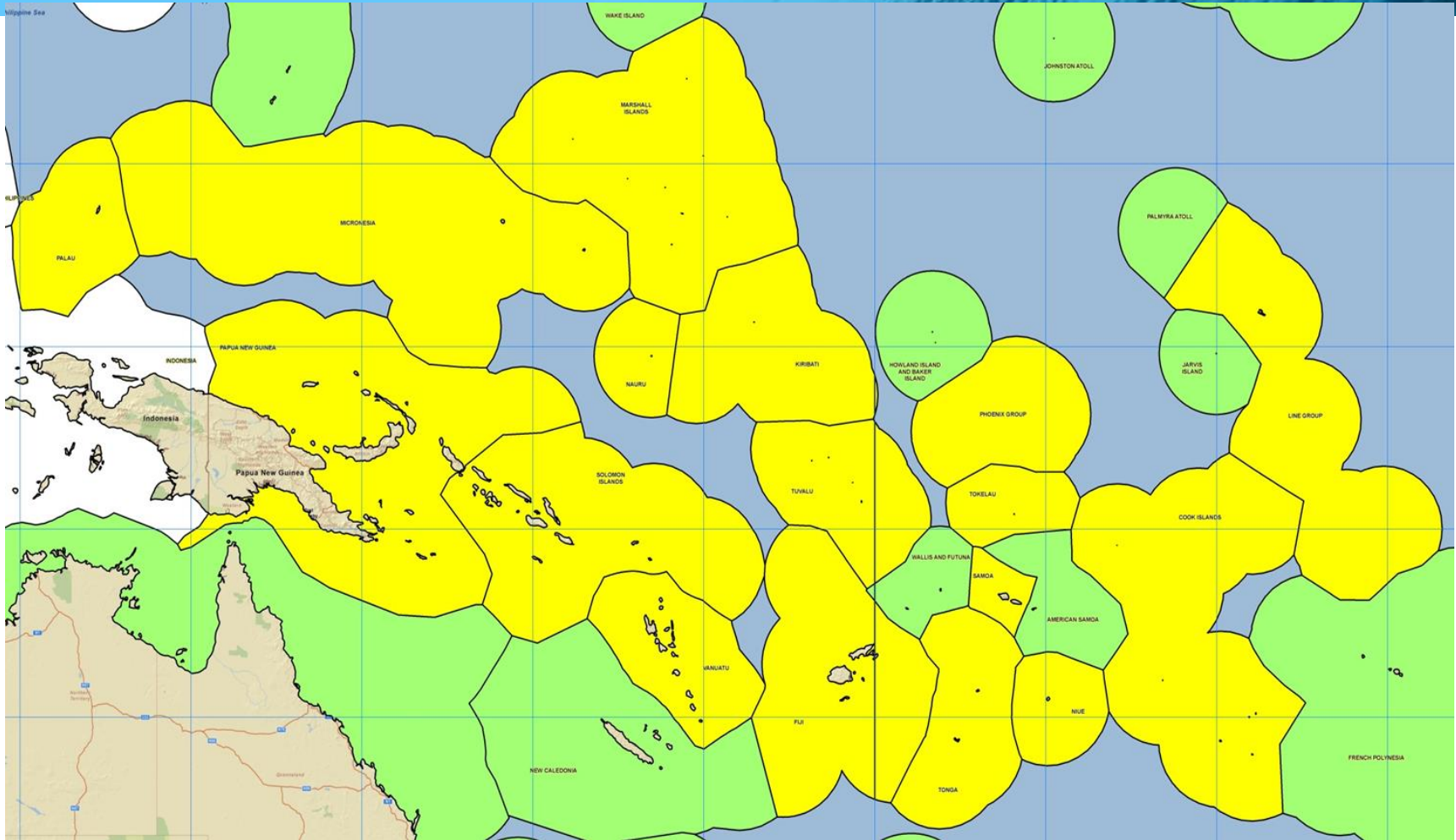


- Overview of Pacific Fisheries;
- Blue economy & SDGs;
- Rights in Coastal Fisheries;
- Securing national rights in shared oceanic fisheries;
- Two examples of regional cooperation:
 - The Vessel Day Scheme (VDS);
 - Cooperation in Monitoring Control and Surveillance (MCS);
- Is it working? – measurement of results;
- Conclusions, closing remarks.



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The FFA region





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Pacific Island fisheries

Industrial tuna fisheries



Inshore (coastal) fisheries





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The Blue Economy & SDG 14

- *“Protects, restores and sustains healthy coastal and marine ecosystem services;*
- *Generates sustainable, equitable economic benefit and inclusive growth;*
- *Integrates approaches between multiple industries and government; and*
- *Innovates, informed by the best available science.”*
- 14.7 By 2030, increase the economic benefits to Small Island developing States and least developed countries from the sustainable use of marine resources
- 14.4 By 2020, effectively regulate harvesting and end overfishing, illegal, unreported and unregulated fishing ...



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Rights based management

- **Coastal – Community based management:**

Empowering coastal communities to manage their inshore marine resources;

Builds on customary marine tenure;

National controls on export fisheries.

- **Oceanic – Zone-based management:**

Securing national rights in a shared tuna resource;

Increase the value of the fishery through limiting effort or catch;

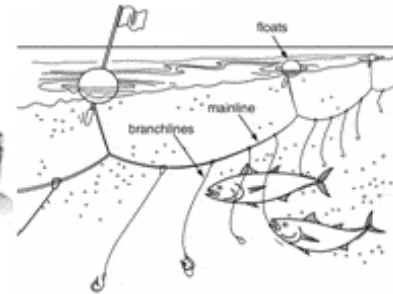
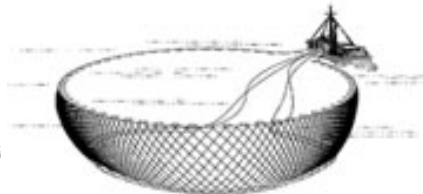
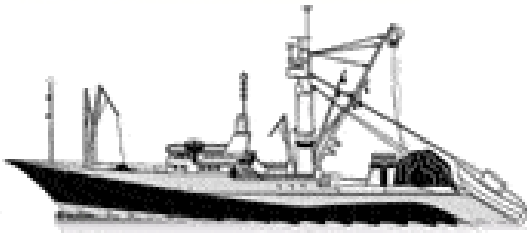
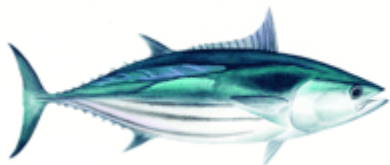
Enhance revenue through competition for access and agreed minimum price.



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Key facts about WCPO Fishery

- 2016 WCPO total tuna catch 2.7 million mt (worth USD5.3 bn) representing about 60% of global tuna catch
- Around 60% of WCPO catch from FFA waters worth \$3 bn. In 2016 (1/3 global catch by volume).
- 4 key target species are Skipjack, Yellowfin, Bigeye, Albacore
- Main fishing methods Purse seine, Longline





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Flag based vs. Zone based

ICCAT S. Albacore Limits

Country	Quota (t.)
Chinese Taipei	9,400
European Union	1,470
Japan	1,355
South Africa	4,400
Namibia	3,600
Brazil	2,160
UK St Helena	100
Angola	50
Others	25

WCPFC P/S Effort Limits

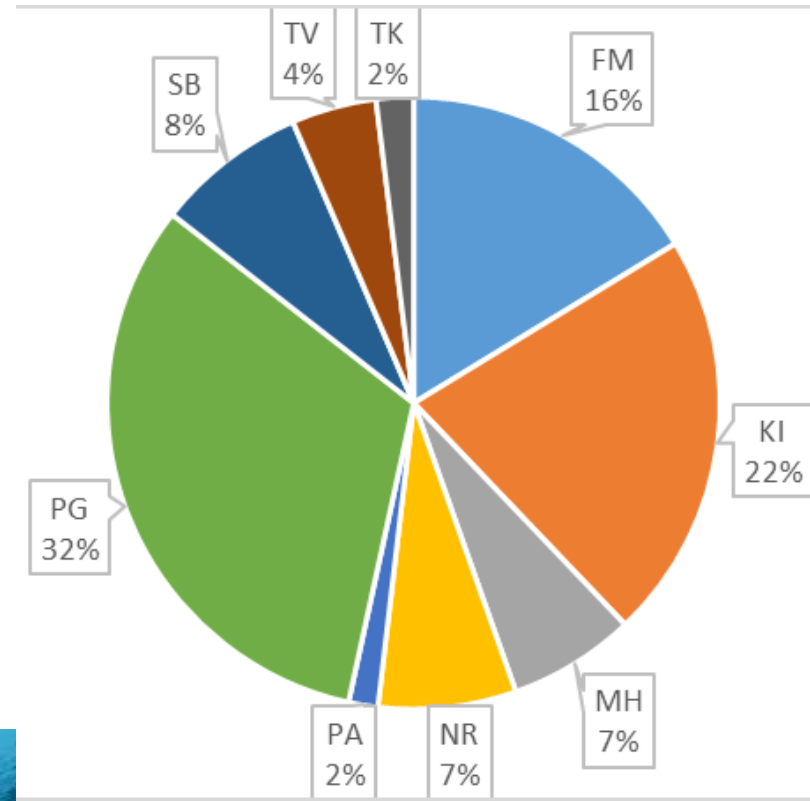
Country	Vsl. Days
PNG	16,290
Kiribati	9,213
Micronesia	7,309
Solomon Is.	3,997
USA	1,270
EU	403
Korea	207
Japan	121
Chinese Taipei	95



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The Vessel Day Scheme

- Implemented by the “Parties to the Nauru Agreement” – subset of 9 FFA members where the majority of the purse seine fishery occurs (equatorial waters).
- Tradeable Effort Management System. Based on “TAE”
- Agreed “benchmark” (minimum) price per day – detailed Bioeconomic modelling
- Growing use of auctions and tenders to sell days
- Creating strong incentive for localisation and JVs

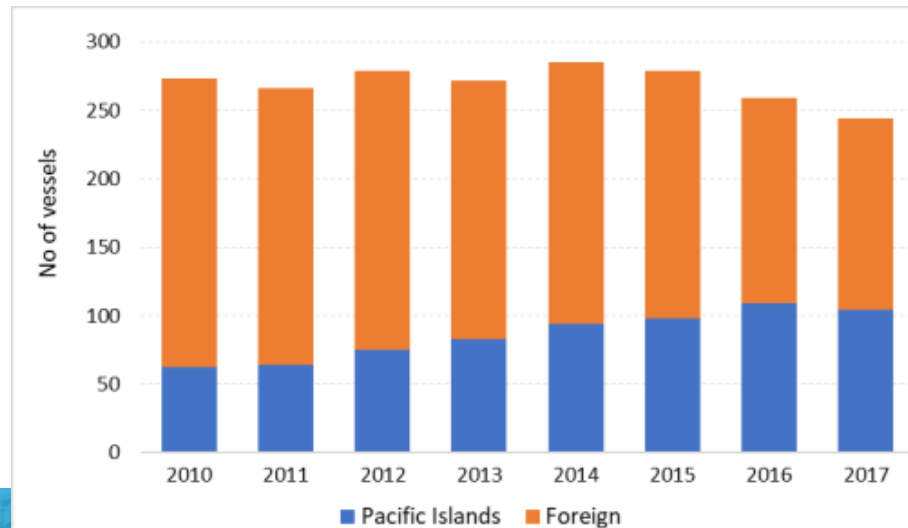
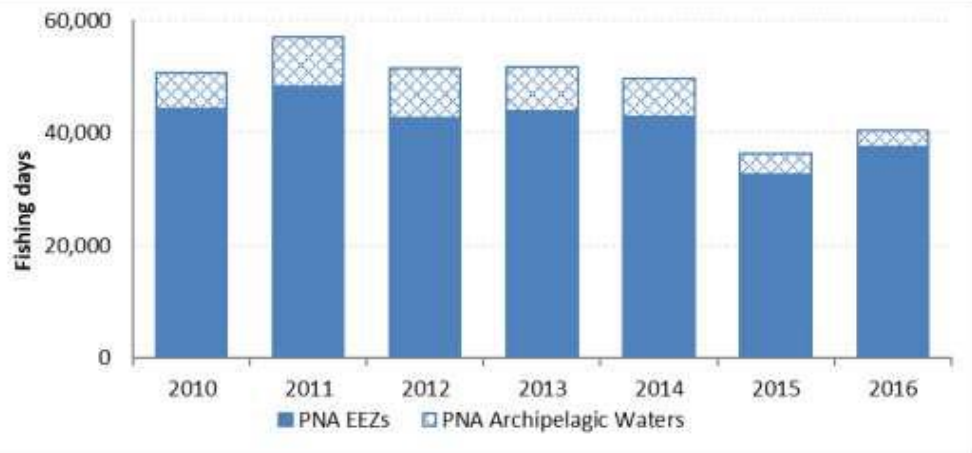
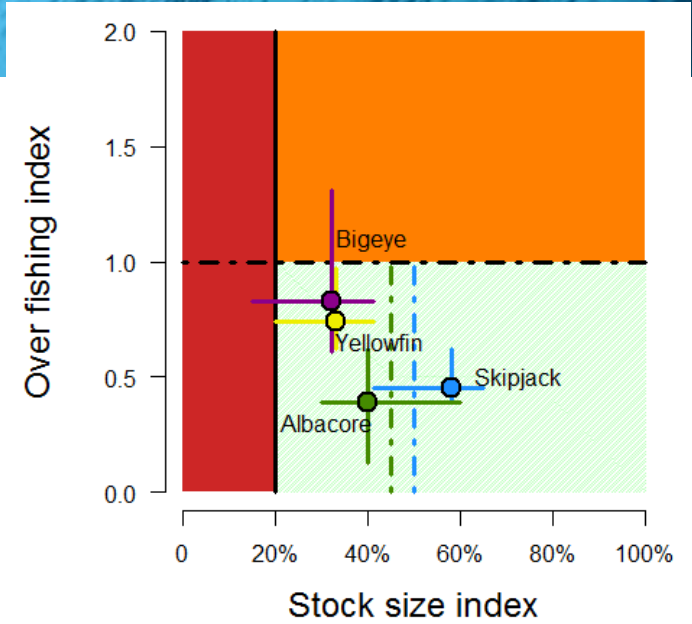
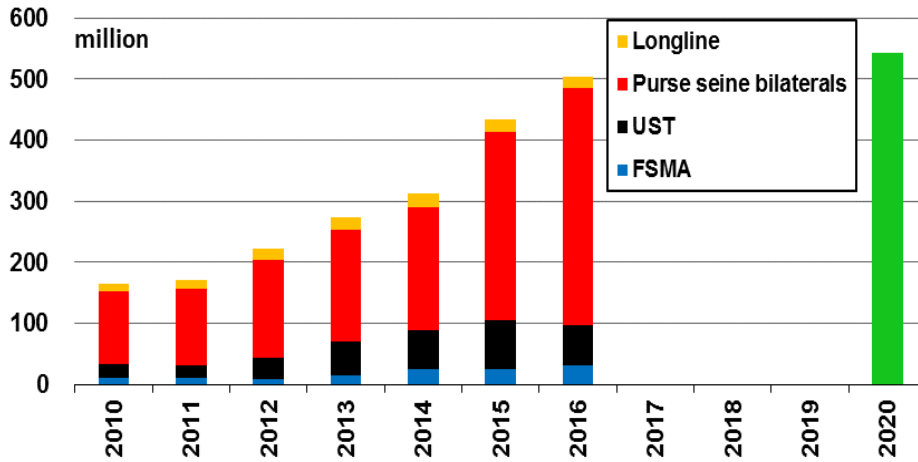




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Is it working?

Value of foreign access fees by Arrangement, 2010-2016 and 2020 target (US\$)





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Cooperation in MCS

Monitoring

- Observer Program (PIRFO standards)
- Vessel Monitoring System
- Regional Surveillance Picture
- Reporting Requirements (Log sheets, Entry exit, etc.)

Control

- FFA Record of Fishing Vessel
- Harmonised Minimum Terms and Conditions (HMTC's)

Surveillance

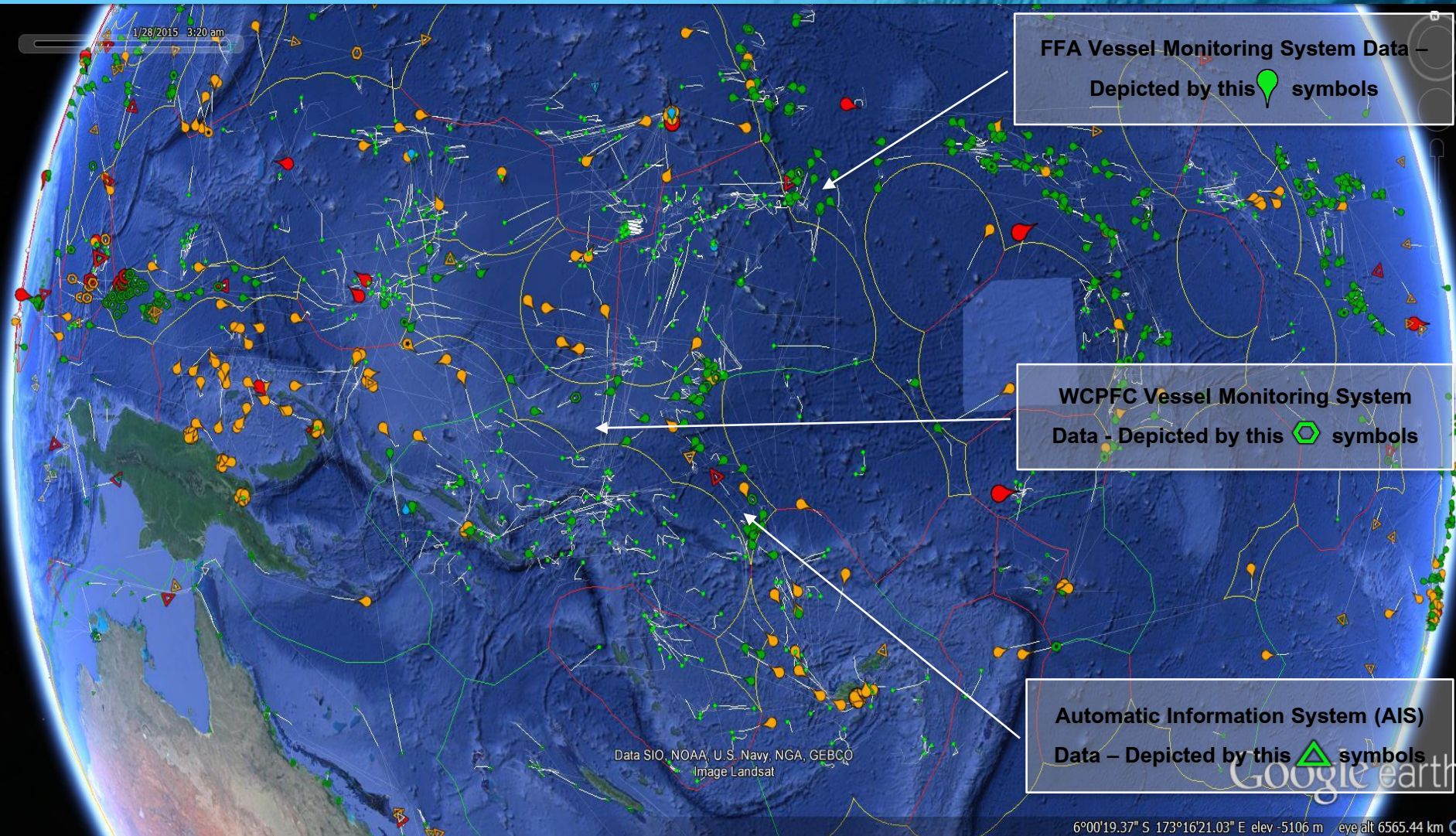
- Regional Fisheries Surveillance Centre(RFSC)
- Regional Surveillance Operations
- *Niue Treaty Subsidiary Agreement*





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The 'Regional Surveillance Picture (RSP)'



FFA Vessel Monitoring System Data –
Depicted by this  symbols

WCPFC Vessel Monitoring System Data - Depicted by this  symbols

Automatic Information System (AIS) Data – Depicted by this  symbols

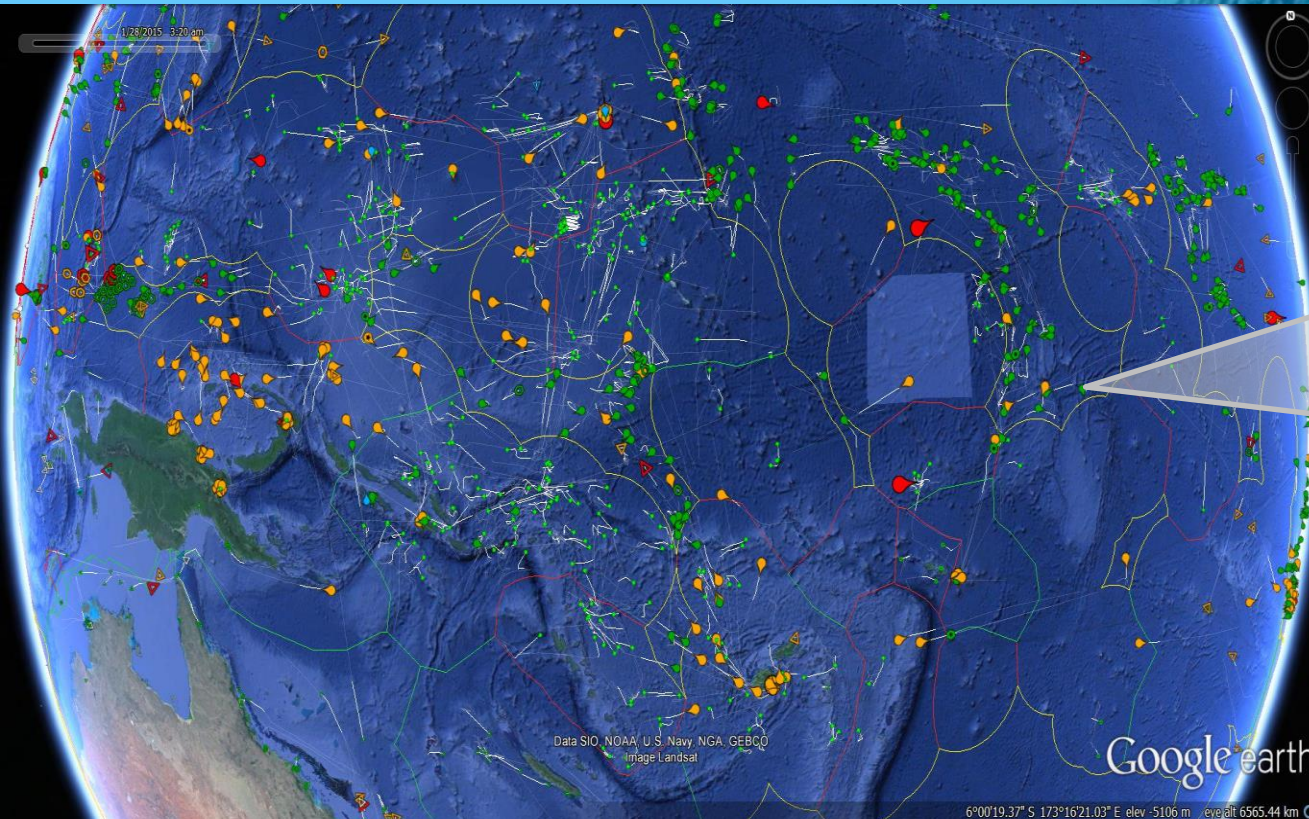
Data SIO, NOAA, U.S. Navy, NGA, GEBCO
Image Landsat





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The 'Regional Surveillance Picture (RSP)'



FFA Internal Use Only.

LIM DISCOVERER (FFA VMS)

Compliance Index ★★★★★ 0

Remarks

06° 10' 2" S, 161° 58' 6" E (SB) at 28th January 2015, 03:56:00 UTC

Update

Licenses Details VOI Contacts Persons CI History 2 Photos UVI

Issuer	Start Date	End Date	License No.	Details
Tuvalu Fisheries	2015-01-01	2015-12-31	TV15-KR36536PS-019	
Solomon Islands Fisheries	2015-01-02	2015-12-31	SI-K20PS/2015	
FFA Vessel Register	2014-04-01	2015-03-31	36536	
WCPFC			6KCA2	Active

Additional potential licenses located

Issuer	Start Date	End Date	License No.	Details
FSM Fisheries	2015-01-01	2015-12-31	LIM DISCOVERER_NEW	2241543

Colour coding (red, yellow, green) shows compliance index; Alerts generated for entry in zone, transshipment, etc.



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Additional MCS Information

- FFA Vessel Registration information
- WCPFC RFV information
- FFA Member licensing information
- On-board Observer Reports
- National Boarding & Inspection Reports
- Quadrilateral Defence Forces Sighting Reports
- Fishing Vessel Log Sheets
- National Vessel of Interest lists
- RFMO IUU Lists

All MCS information is managed - collected, analysed and disseminated via the FFA Electronic Operations Room (eOps)



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Response Capacity



- **Surveillance flights by military aircraft of AU, NZ, USA, FR;**
- **Civil charter programme starts next year (AU funding);**
- **National patrol vessels in 12 member countries;**
- **Cooperative arrangements – cross endorsement of officers, ‘ship-rider’ agreements;**



WCPFC is the first RFMO to agree a high seas boarding and inspection scheme.



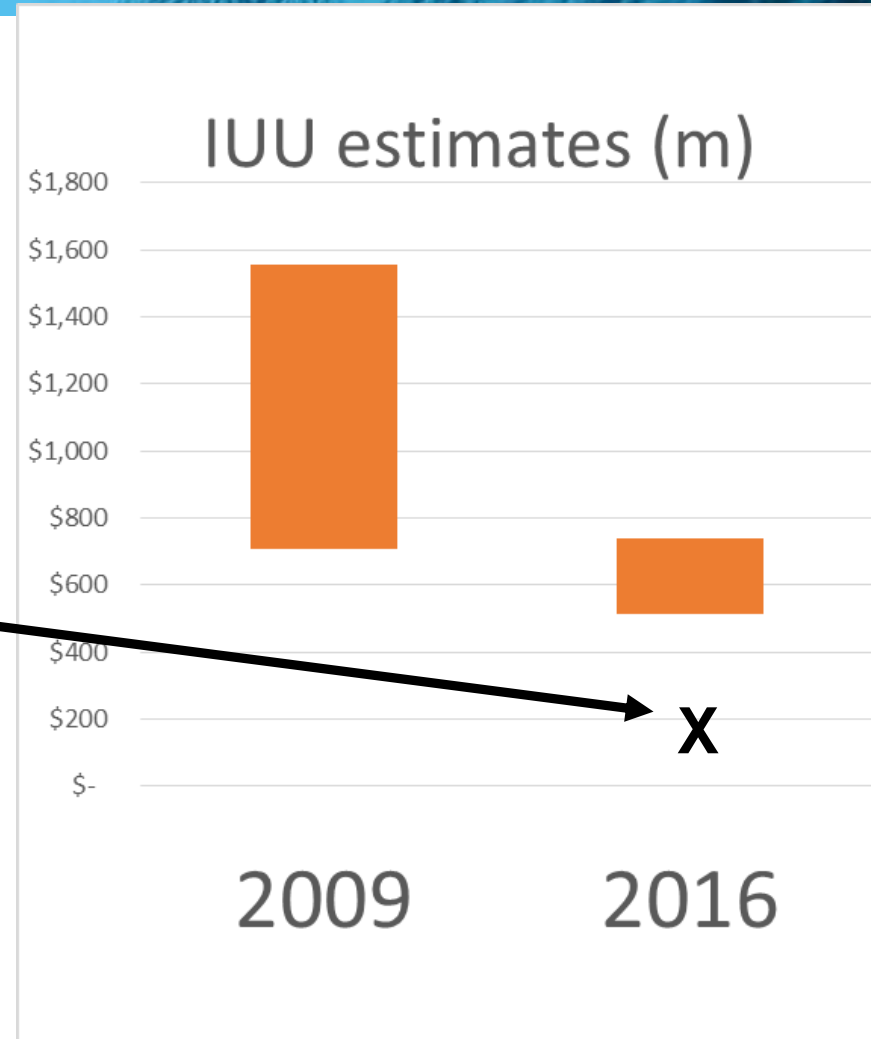


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Is it working?

- Bulk information collected
- Sharing exceeds anywhere in the world
- Data converted to Intel
- It works...
- “Illegal” Boats
 - 4% of IUU 2017
 - 30% 10 years ago

**Actual estimated
loss to Island
Revenue**





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IUU Estimate 2016

Estimated total value of tuna taken in IUU activities ~US\$600 million – mainly misreporting and post harvest: around 10% of catch value.

Unlicensed fishing very low: ~US\$20 million.

Risk	BE (t)	90% range (t)	BE (\$)	90% range (\$)
Unlicensed fishing	11,078	7,351 – 14,945	\$20.65m	\$15.28m – \$26.22m
Reporting violations	167,341	157,387 – 179,848	\$313.42m	\$270.60m – \$377.01m
Other license conditions	88,440	66,957 – 109,557	\$117.93m	\$92.06m – \$143.49m
Post-harvest risks	39,580	21,429 – 61,151	\$164.12m	\$81.69m – \$266.49m

Source: MRAG 2016 – Towards quantification of IUU



Future priorities for Pacific Islands

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- Reform of the management of longline fisheries;
- Increasing decent employment in tuna fisheries;
- Facilitating investment and trade;
- Increased participation in the value chain.



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Conclusions

- Long history of regional cooperation led by FFA in management of fishery
- Effective zone-based management measures being developed
- Overcoming inequity in returns to Pacific Island Countries
- Strengthening blue economy and achieving SDG 14



WCPFC meeting in Manila



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Thank you



- Thank you for your attention.
- Any questions welcome.
- For more information please see www.ffa.int or contact me on email: mike.batty@ffa.int