

Commercial Fisheries Information Network (CFIN) Electronic Reporting Programs Pacific States Marine Fisheries Commission

68th Annual PSMFC Meeting
Girdwood, Alaska
August 26th 2015
Dave Colpo






NOAA FISHERIES

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION



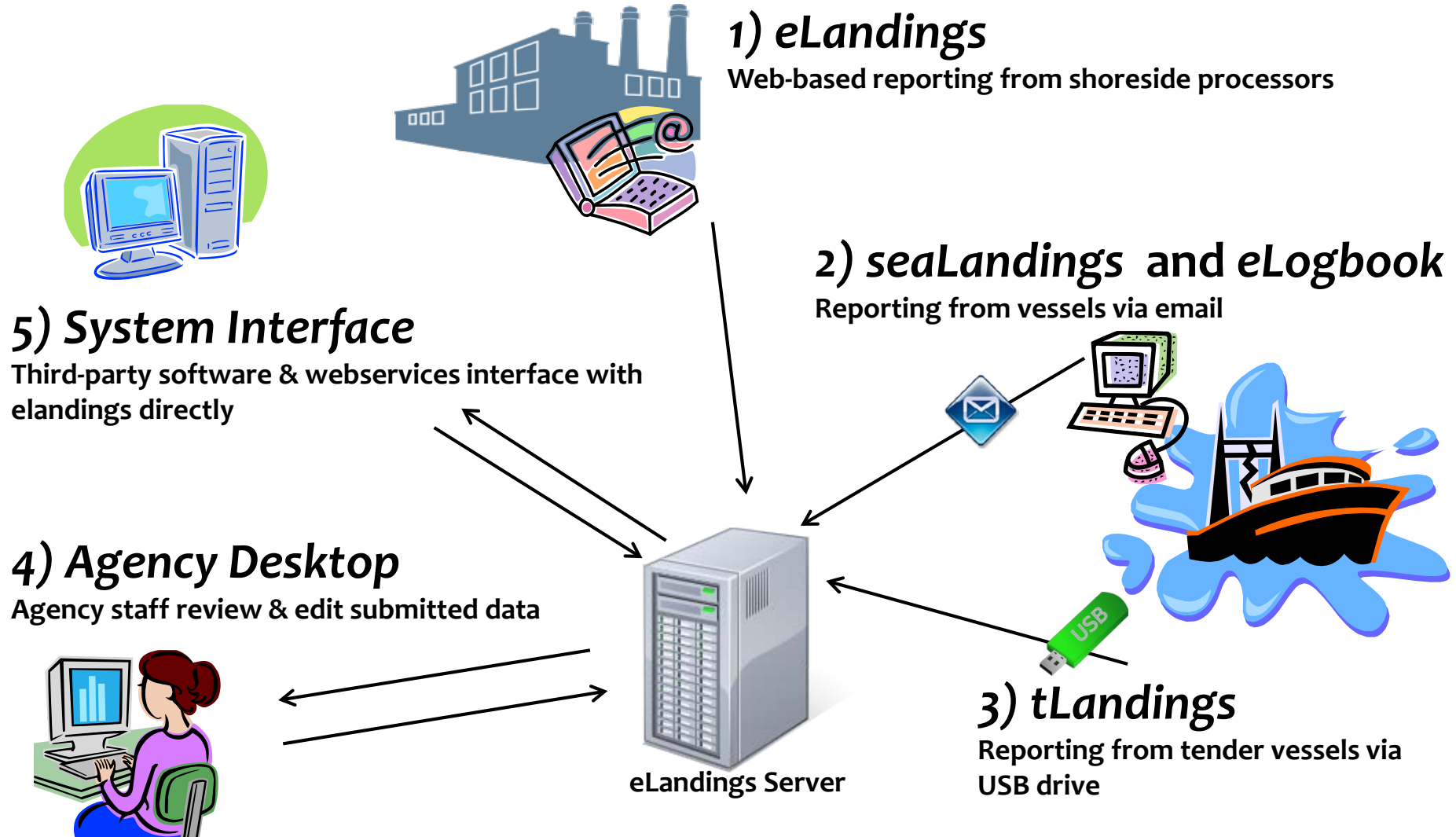


E-Tickets

Compliance
Monitoring

Electronic
Monitoring

Alaska Fish Tickets



West Coast Electronic Fish Tickets

Real time management
needed for Whiting
fishery May 2008

ODFW accepts all
electronically
submitted fish tickets

~12-15 buyers



Program Expansion
Trawl Rationalization
Program begins Jan 2011
with need for real time quota
accounting. 100% of IFQ
tickets must be submitted
electronically

Transition to web
based data submission

Many more buyers

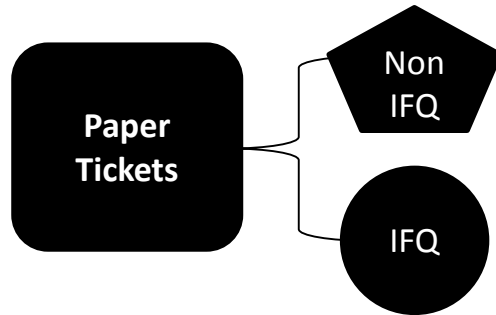
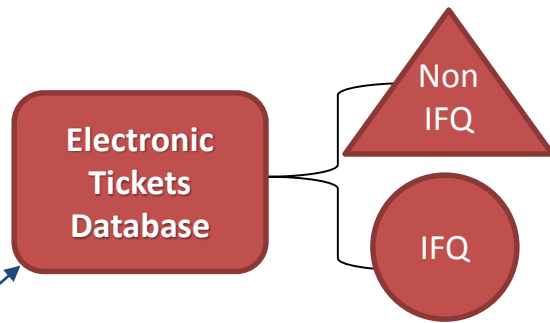
West Coast Fish Tickets

Electronic
Tickets
Database

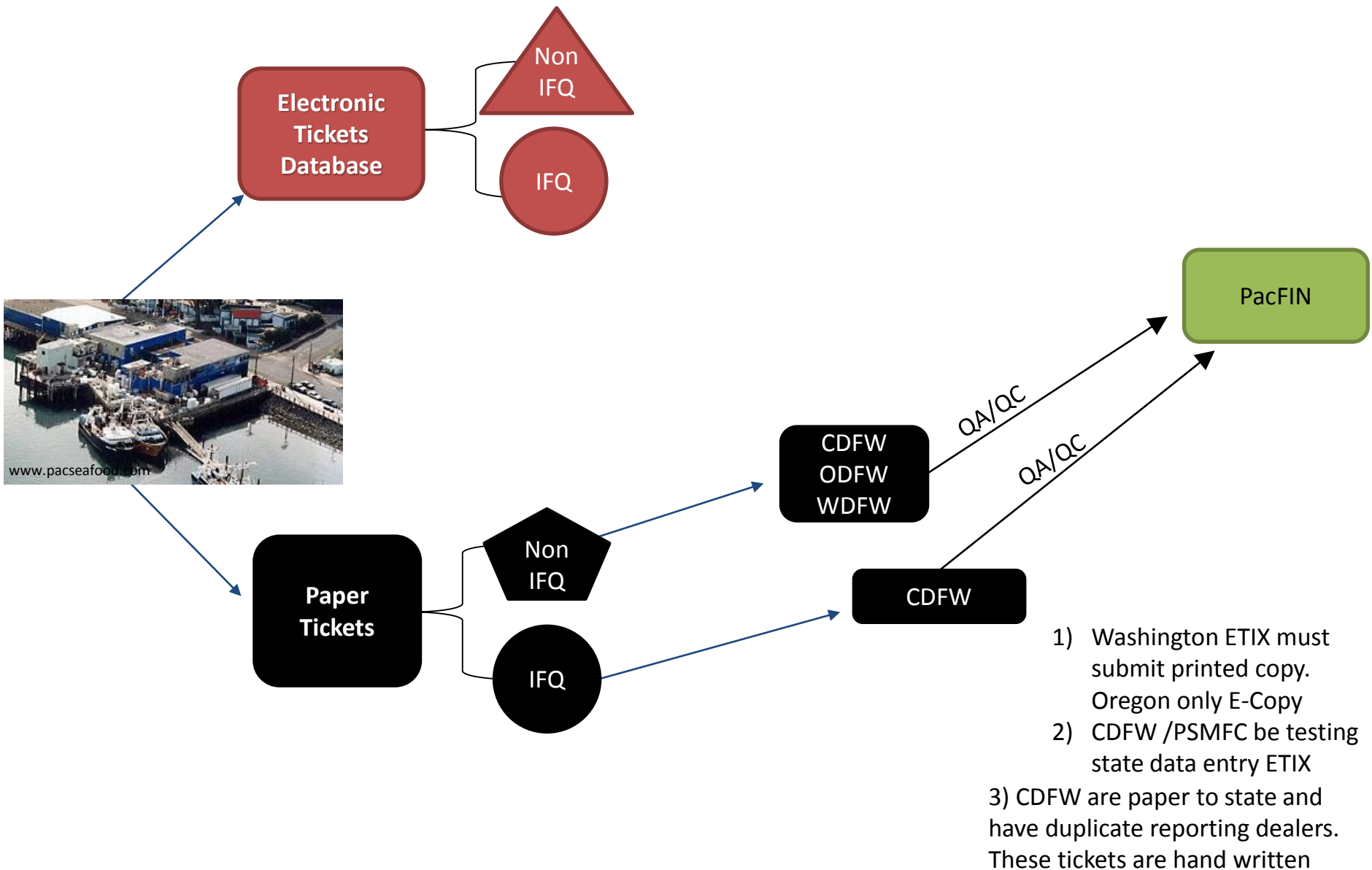


Paper
Tickets

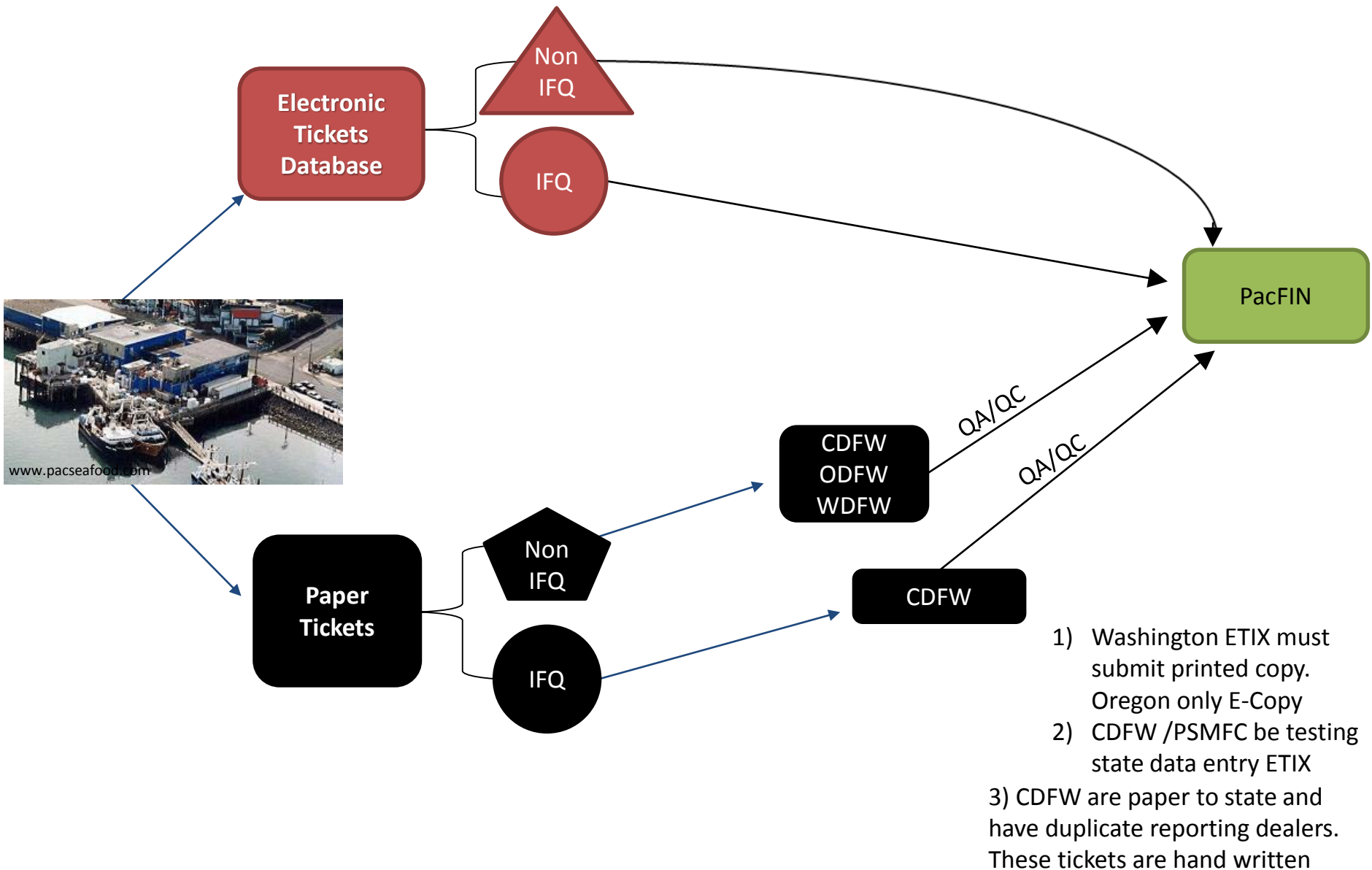
West Coast Fish Tickets



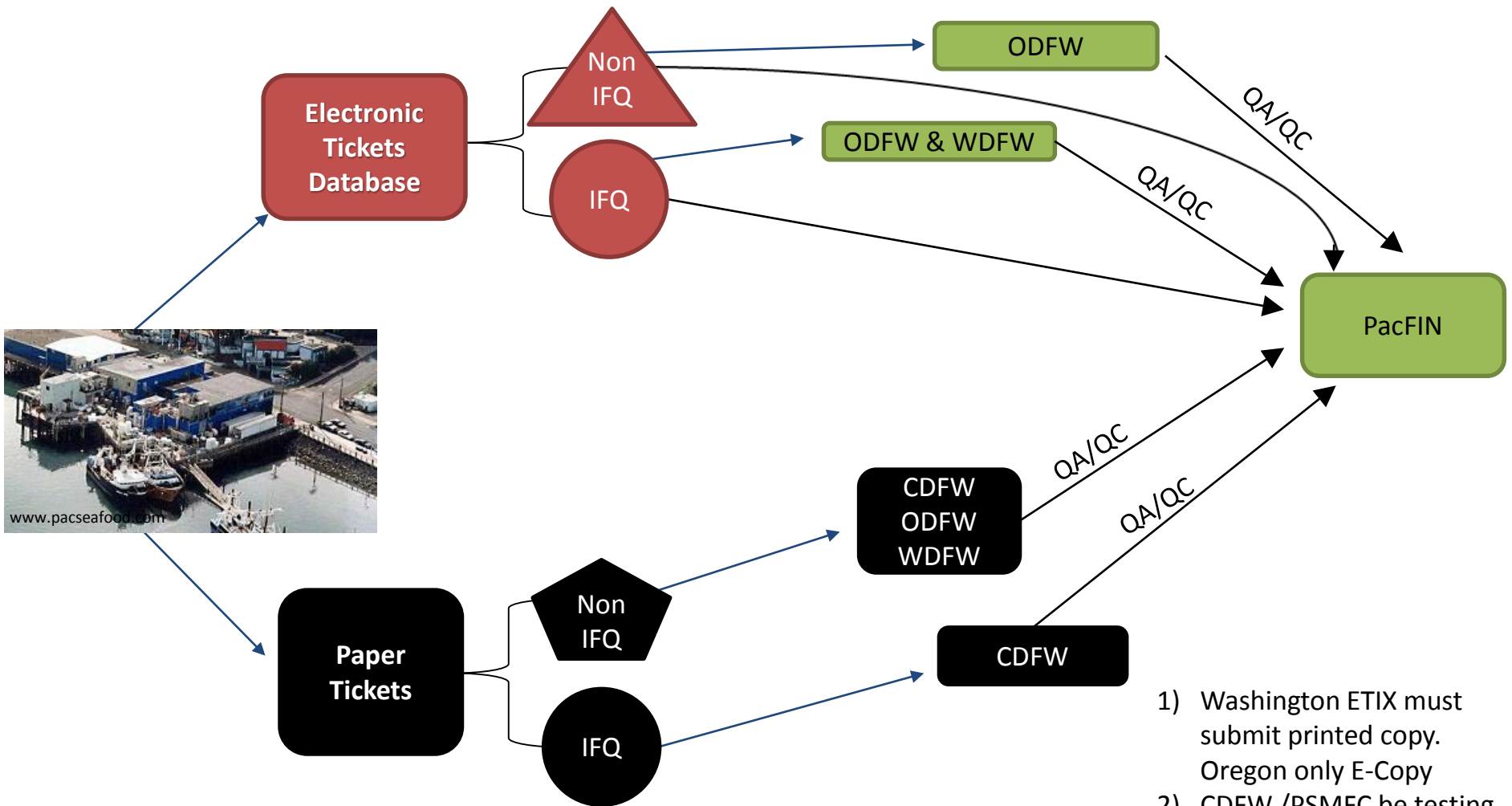
West Coast Fish Tickets



West Coast Fish Tickets

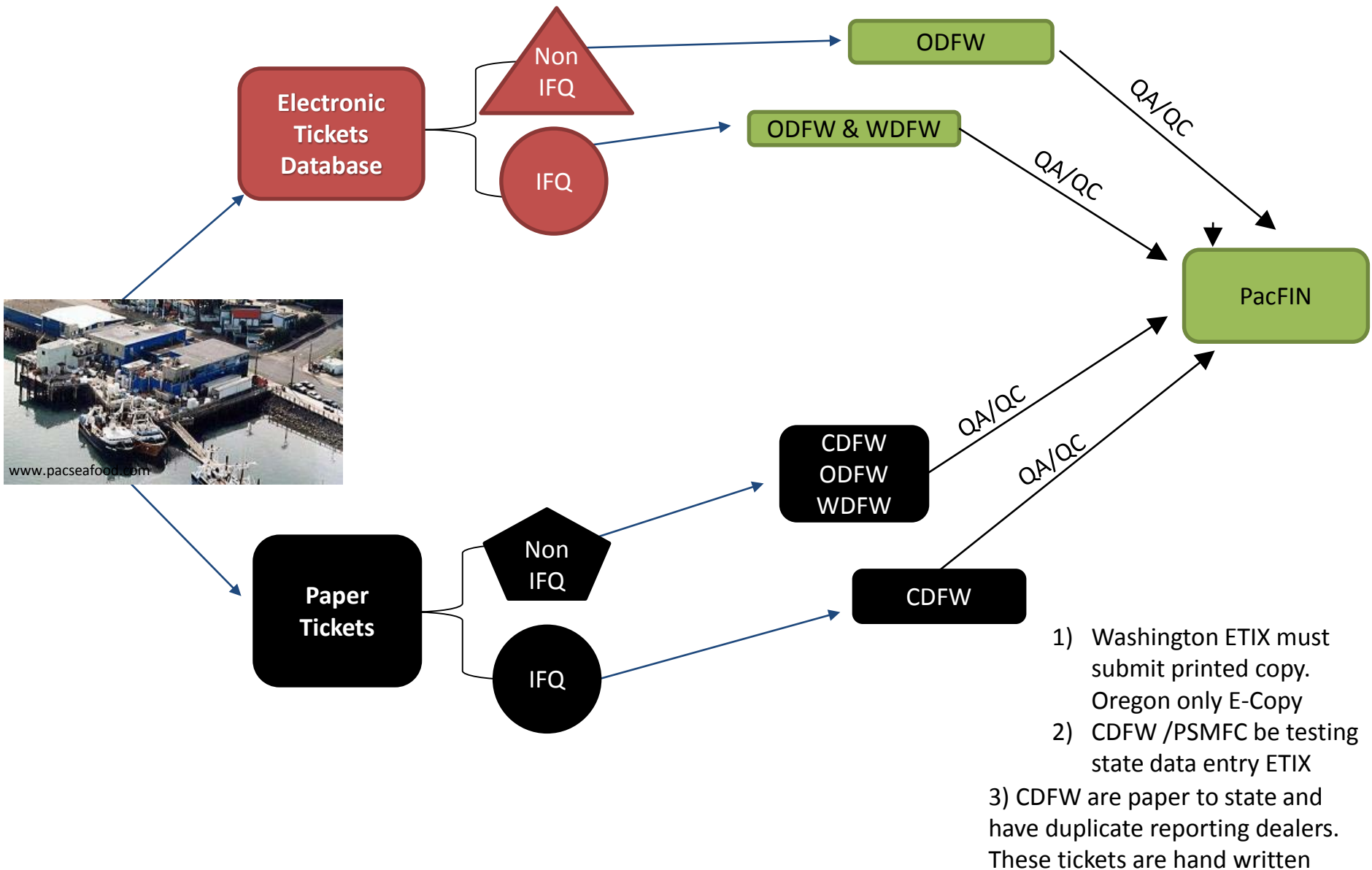


West Coast Fish Tickets

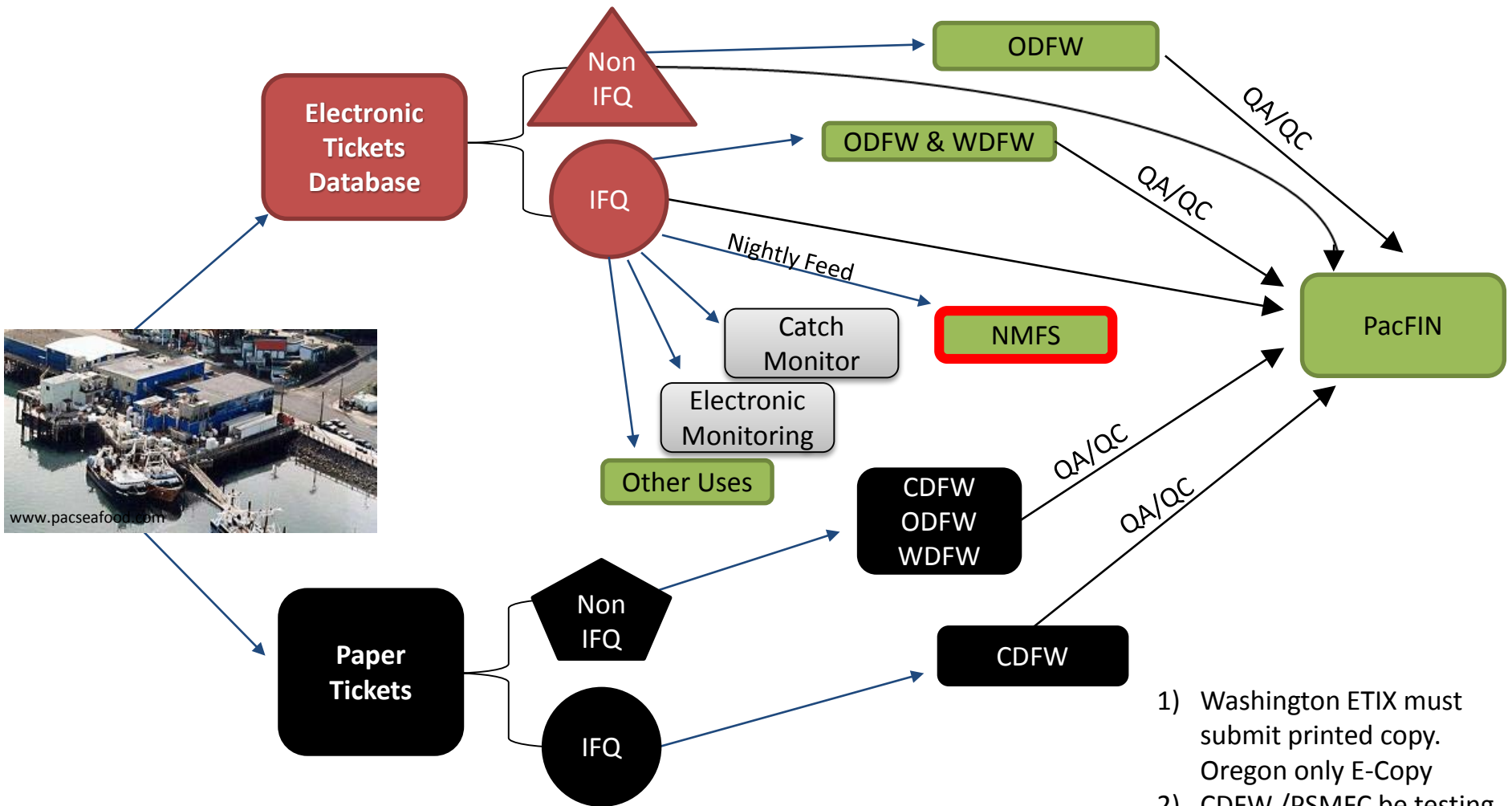


- 1) Washington ETIX must submit printed copy. Oregon only E-Copy
- 2) CDFW /PSMFC be testing state data entry ETIX
- 3) CDFW are paper to state and have duplicate reporting dealers. These tickets are hand written

West Coast Fish Tickets



West Coast Fish Tickets



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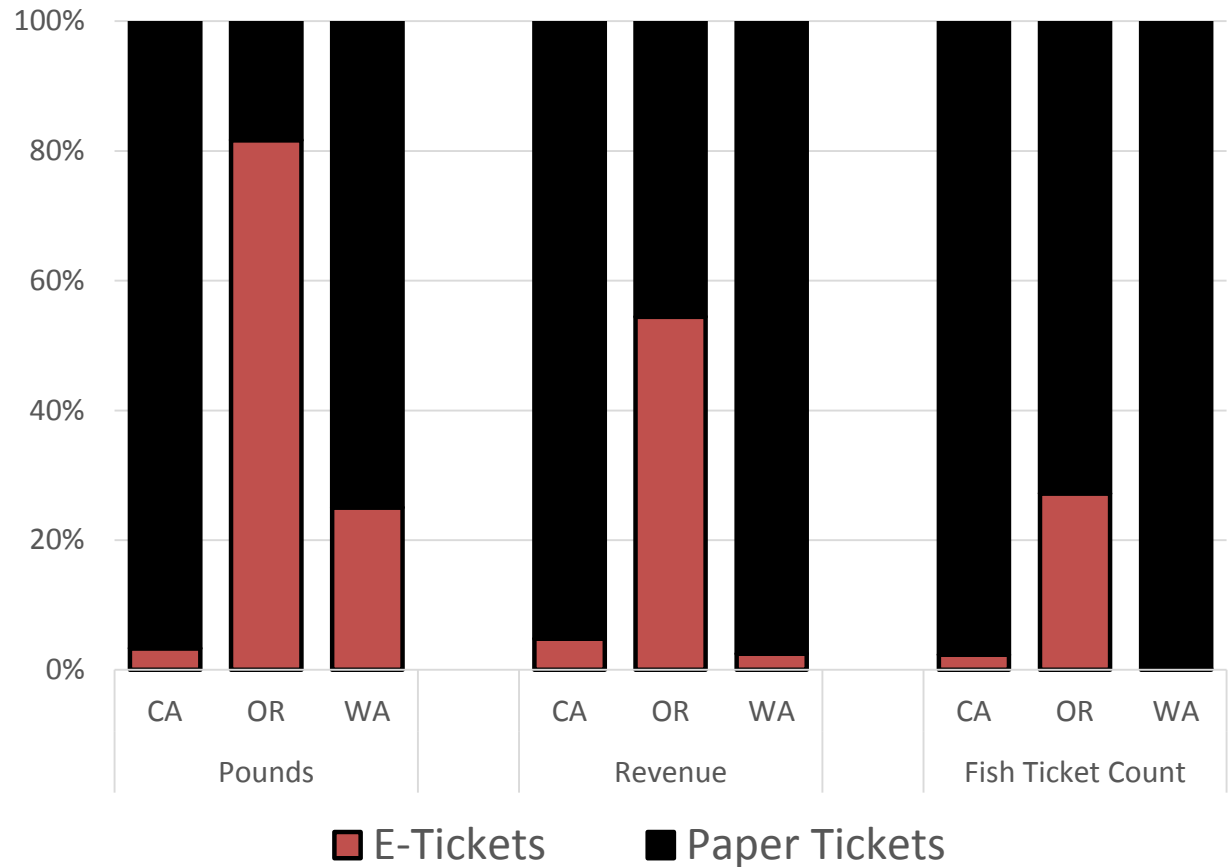
West Coast Fish Tickets

Electronic
Tickets
Database



Paper
Tickets

Proportion of 2014 Fish Tickets Submitted Electronically



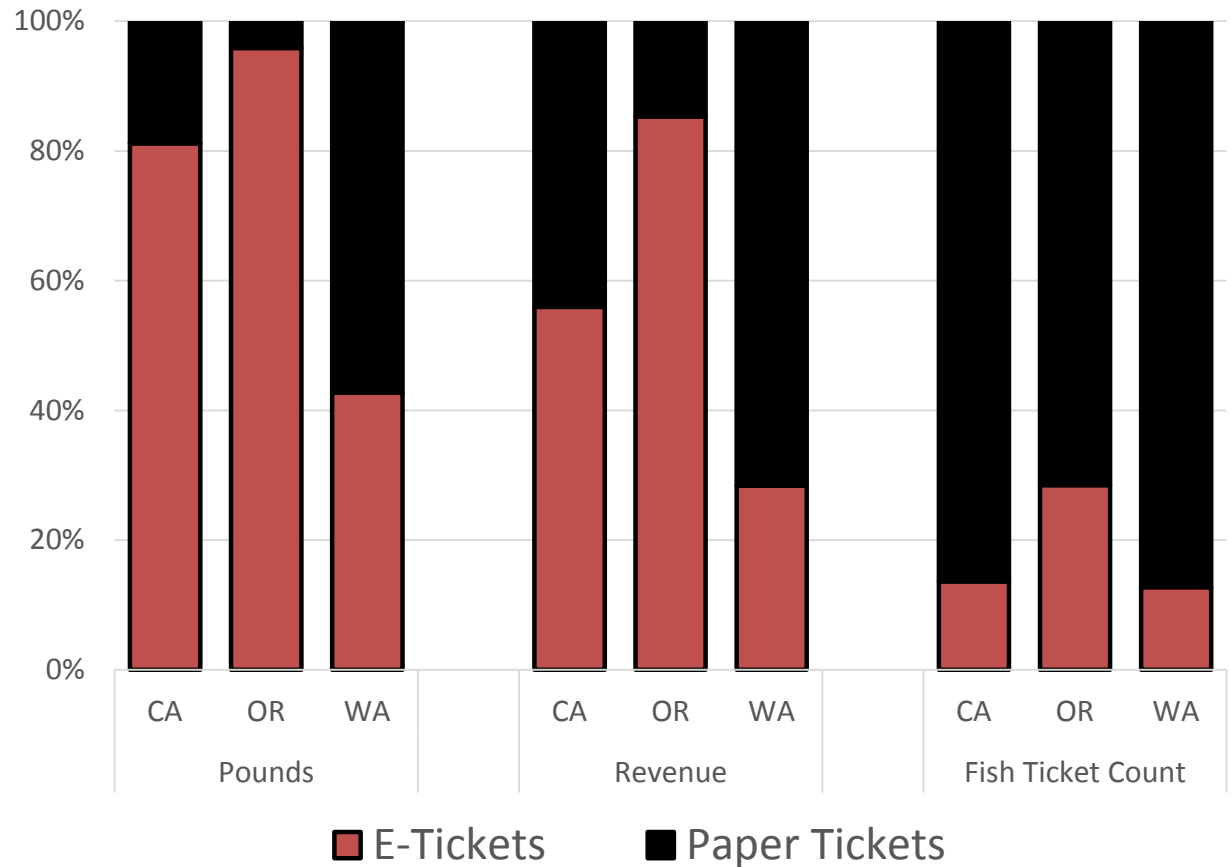
West Coast Fish Tickets

Electronic
Tickets
Database

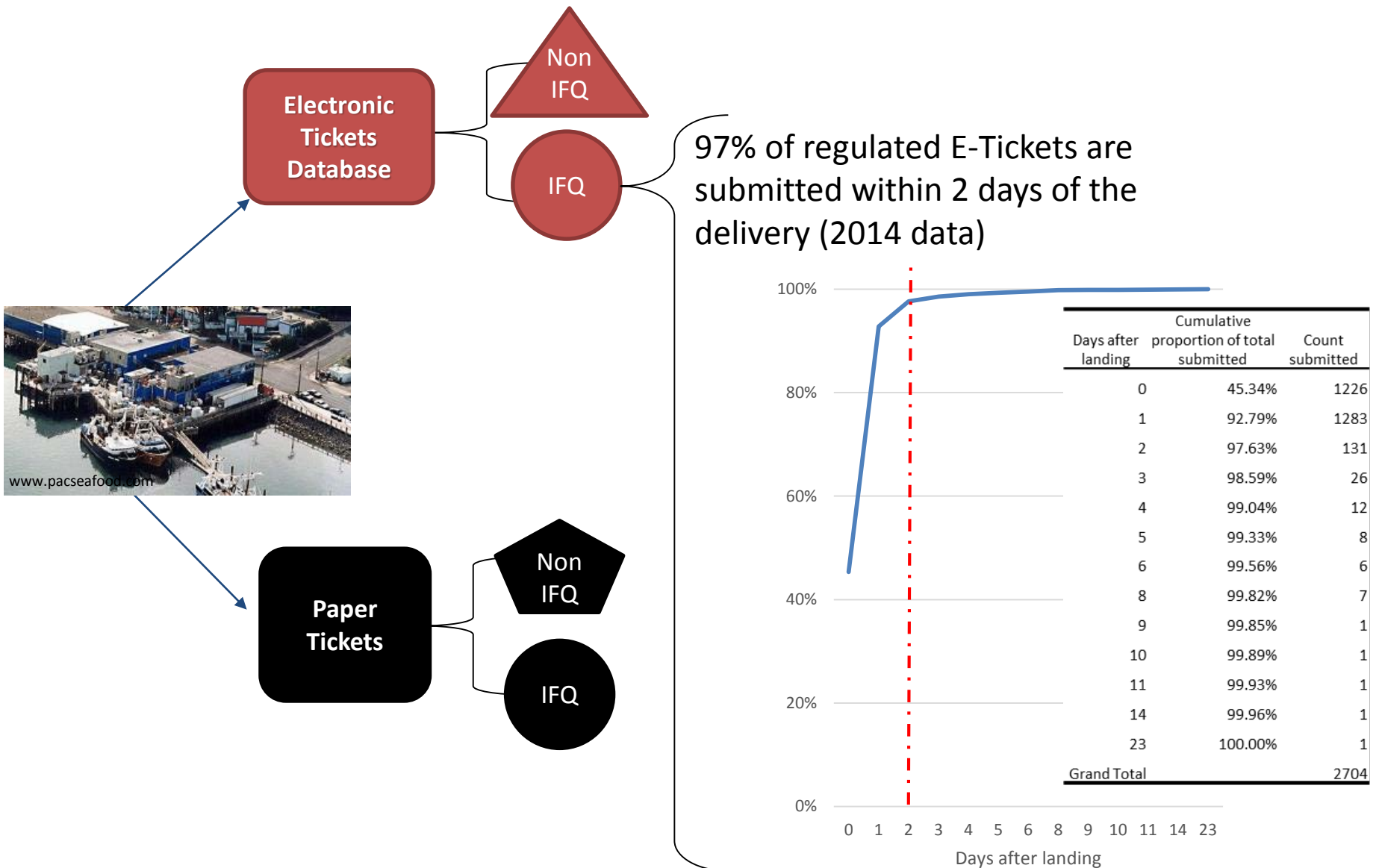


Paper
Tickets

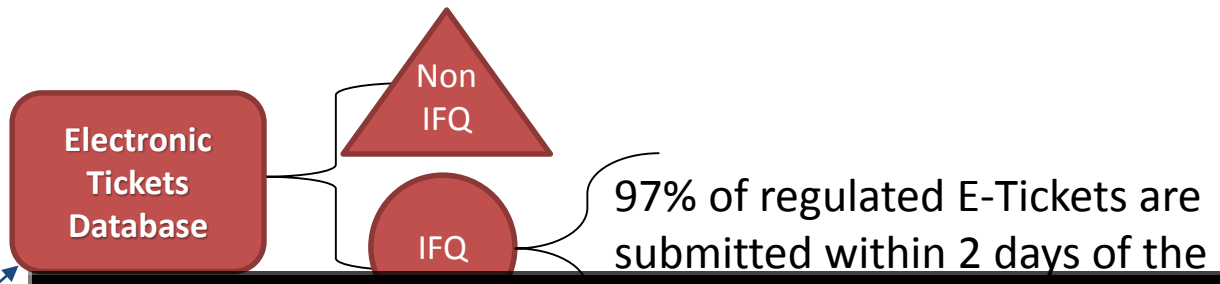
Proportion of Groundfish Fish Tickets Submitted Electronically



West Coast Fish Tickets



West Coast Fish Tickets

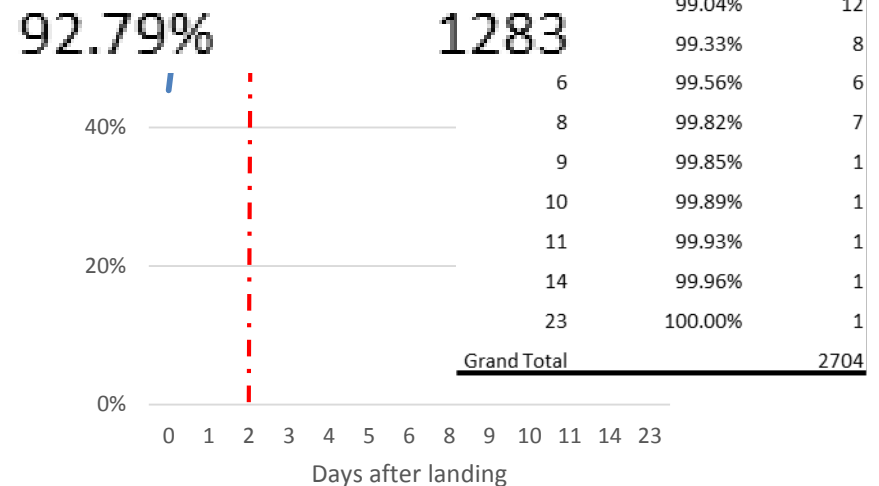
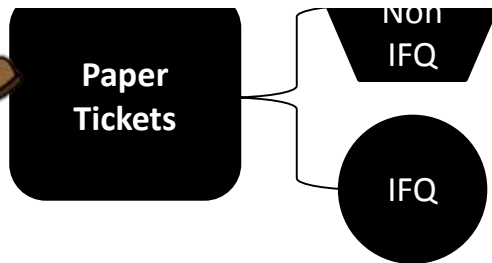


Cumulative

Days after landing	proportion of total submitted	Count submitted
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www.p



West Coast Fish Tickets: What's Next?



NOAA FISHERIES
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION



**Northwest
Indian
Fisheries
Commission**

Compliance Monitoring

Real time management
needed for Whiting EFP
beginning 5/08

1 full time program
manager

2008

2011

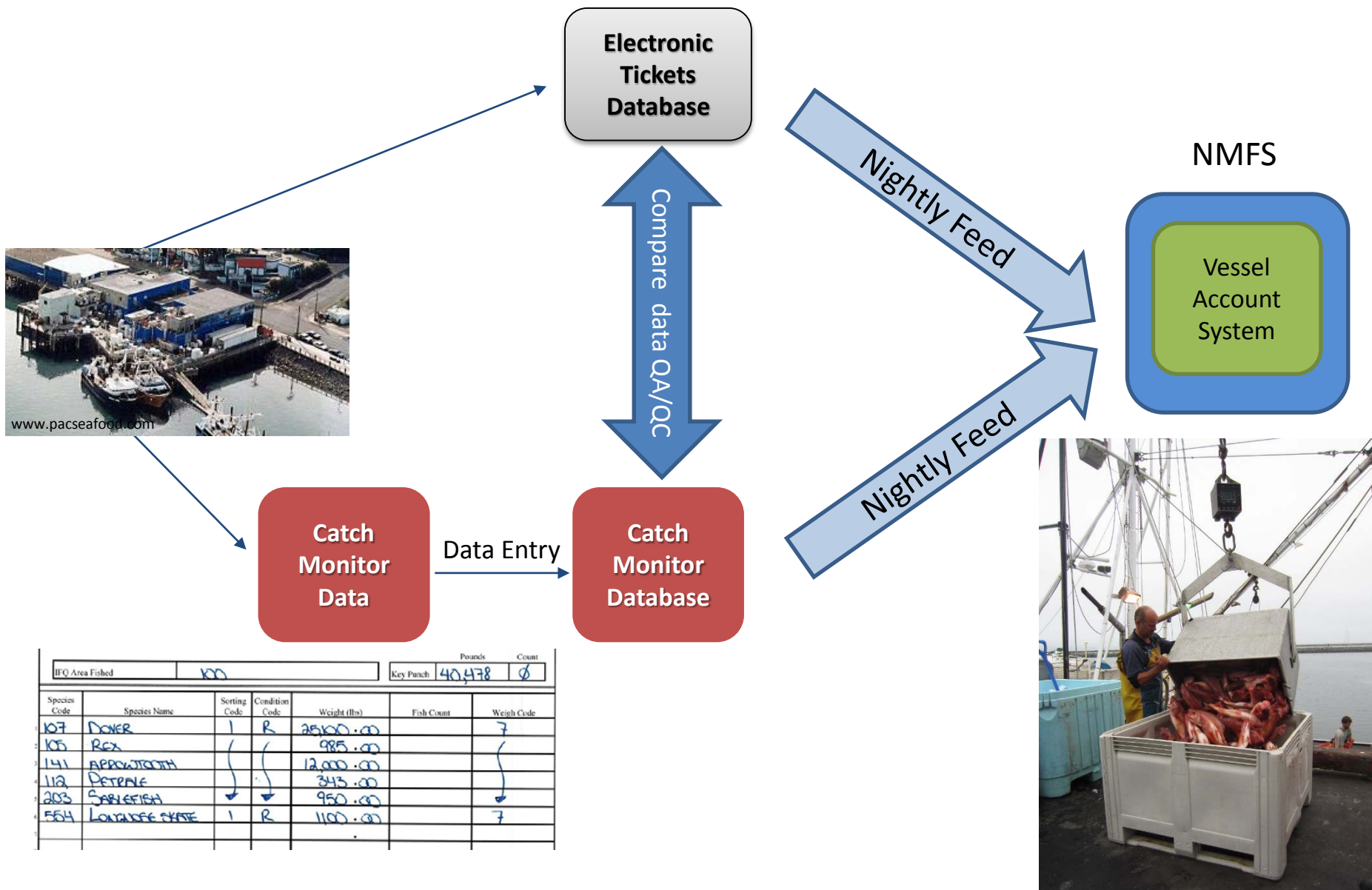


Program Expansion

Trawl Rationalization Program
begins 1/11 with need for shore
based compliance monitoring for
100% of deliveries

- + 1 full time trainer/data debriefer
- SQL database developed

Compliance Monitoring



Compliance Monitoring

2014

Compliance Monitors	76
Vessels	100
Buyers	37
Ticket count*	2158

* Some offloads produce multiple tickets



Compliance Monitoring: What's Next?



NOAA FISHERIES
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION



Electronic Monitoring – Shiny Object



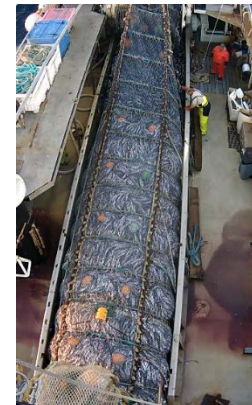
Electronic Monitoring

Pre-Implementation program begins

- 6 whiting vessels
- 4 fixed gear vessels
- AMR

Pacific Council formally pursues EM for compliance monitoring of at-sea **discards** in the IFQ fishery

- 4 EFP applications approved



Began work in AK

2011

2012

2013

2014

2015

Brilliant Idea

In-house team:

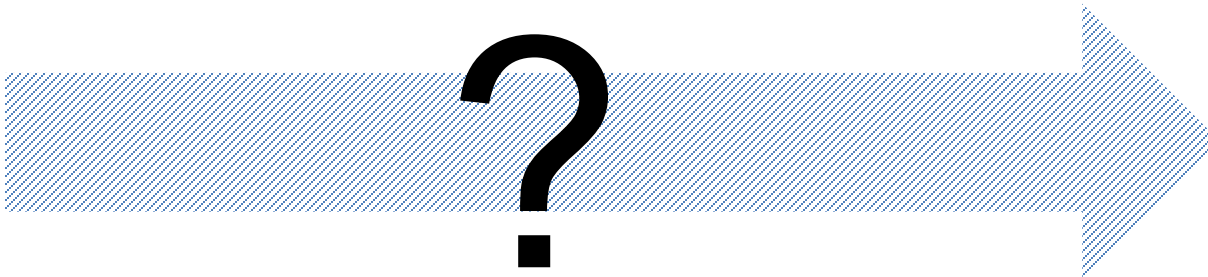
- 2 video reviewers
- 1/2 Data analyst
- Saltwater EM
- Build server to store video data (3 x)

EFPs go into effect
(30% of fleet)

- + 2 video reviewers (4 total)
- + 1 data entry technician
- SQL databases developed
 - Logbook
 - EM data
- Full time analyst/project manager



Electronic Monitoring

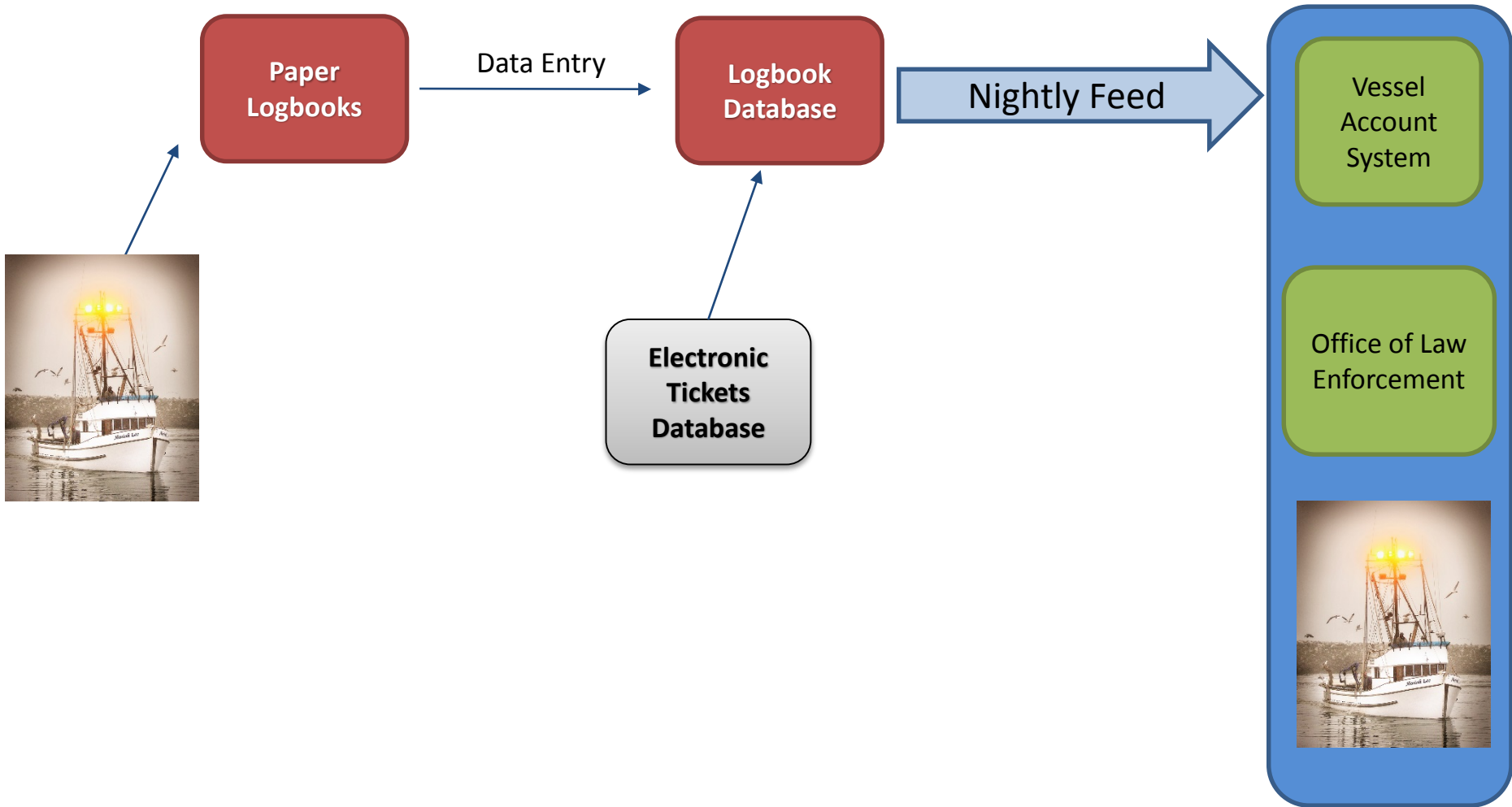


Vessel
Account
System

Office of Law
Enforcement



Electronic Monitoring



Electronic Monitoring

Paper
Logbooks

Data Entry

Logbook
Database

Nightly Feed

Vessel
Account
System

Office of Law
Enforcement

Oregon fixed gear logbook with slight changes

Year: _____ **EM FIXED GEAR LOGBOOK** EFP Trip (circle one): Yes - No

Permit (circle one): LE Fixed Gear - LE DTL - IFQ - Open Access Permit # _____

Vessel Name: _____ Port of Landing: _____

Vessel Doc. Number: _____ Buyer(s): _____

Gear (circle one): pot - barrel - bucket - longline - other Escapement Hole Size: _____

Type of Pot (circle one): rectangular - conical - other # Escapement Holes: _____

Dimensions of Pot: (H/W/L') _____ X _____ X _____ Pot / Barrel / Bucket Spacing: _____ ft. apart on groundline

Type of Longline Gear: (circle one) FIXED HOOK - AUTO LINE - SNAP										Longline Gear ID	Length of Skate or Line in Tub (feet)	Hook Size	Hook Spacing (feet)	# Hooks per Skate or Tub	Total Number of Skates or Tubs Lost				
Gear ID										A									
										Latitude & Longitude				SABLEFISH			SABLEFISH		
String or Set #	# of Skates, Tubs, or Pots per Set	LL Gear ID (A or B)	Delivery Date	Set & Up (Retrieve) Date	Time (24 Hour Clock)	String To	Depth (Fm)	Lat. Degree	Decimal Minutes	Long. Degree	Decimal Minutes	RETAINED Pounds Count	RETAINED Pounds Count	RETAINED Pounds Count	RETAINED Pounds Count	RELEASED Pounds Count	RELEASED Pounds Count	RELEASED Pounds Count	
				Set			Start												
				Up			End												
				Set			Start												
				Up			End												
				Set			Start												
				Up			End												
				Set			Start												
				Up			End												
				Set			Start												
				Up			End												
				Set			Start												
				Up			End												

Vessel Operator's Signature: _____

Vessel Operator's Name (print): _____

Comments: _____



Electronic Monitoring

Paper
Logbooks

Data Entry

Logbook
Database

Nightly Feed

Vessel
Account
System

Office of Law
Enforcement

Required Trawl logbook (Retained catch)

Vessel Name _____ Departure: Date _____ Time _____ Port _____
 Federal Document No _____ Return: Date _____ Time _____ Port _____
 Crew Size (including Captain) _____ Observed trip (check if yes) ☐ Buyer(s) _____
 EFP trip (check if yes) ☐

DATE mo/day	TIME Local 24-hour clock	LATITUDE		LONGITUDE		Average depth of catch (fathoms)	NET TYPE	Target Strategy	Estimated pounds retained each tow – enter 3 or 4-letter code from species code list															
		Degrees	Minutes	Degrees	Minutes																			
	set		.		.																			
	up		.		.																			
	set		.		.																			
	up		.		.																			
	set		.		.																			
	up		.		.																			
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	set		.		.																			
	up		.		.																			

REMARKS:

Signed: _____

TO BE COMPLETED BY AGENCY

VESSEL
PORT

FISH RECEIVING TICKET NO.



Electronic Monitoring

Paper
Logbooks

Data Entry

Logbook
Database

Nightly Feed

Vessel
Account
System

PSMFC Supplemental EM Trawl logbook (Discarded catch)

Office of Law
Enforcement

Vessel Name _____ Departure: Date _____ Time _____ Port _____
 Federal Document No _____ Return: Date _____ Time _____ Port _____
 Crew Size (including Captain) _____ Observed trip (check if yes) ☐

DATE mo/day	TIME Local 24-hour clock	LATITUDE		LONGITUDE		Average depth of catch (feet/meters)	NET TYPE
		Degrees	Minutes	Degrees	Minutes		
	set		*		*		
	up		*		*		
	set		*		*		
	up		*		*		
	set		*		*		
	up		*		*		
	set		*		*		
	up		*		*		
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	up		*		*		
	set		*		*		
	up		*		*		

REMARKS: _____

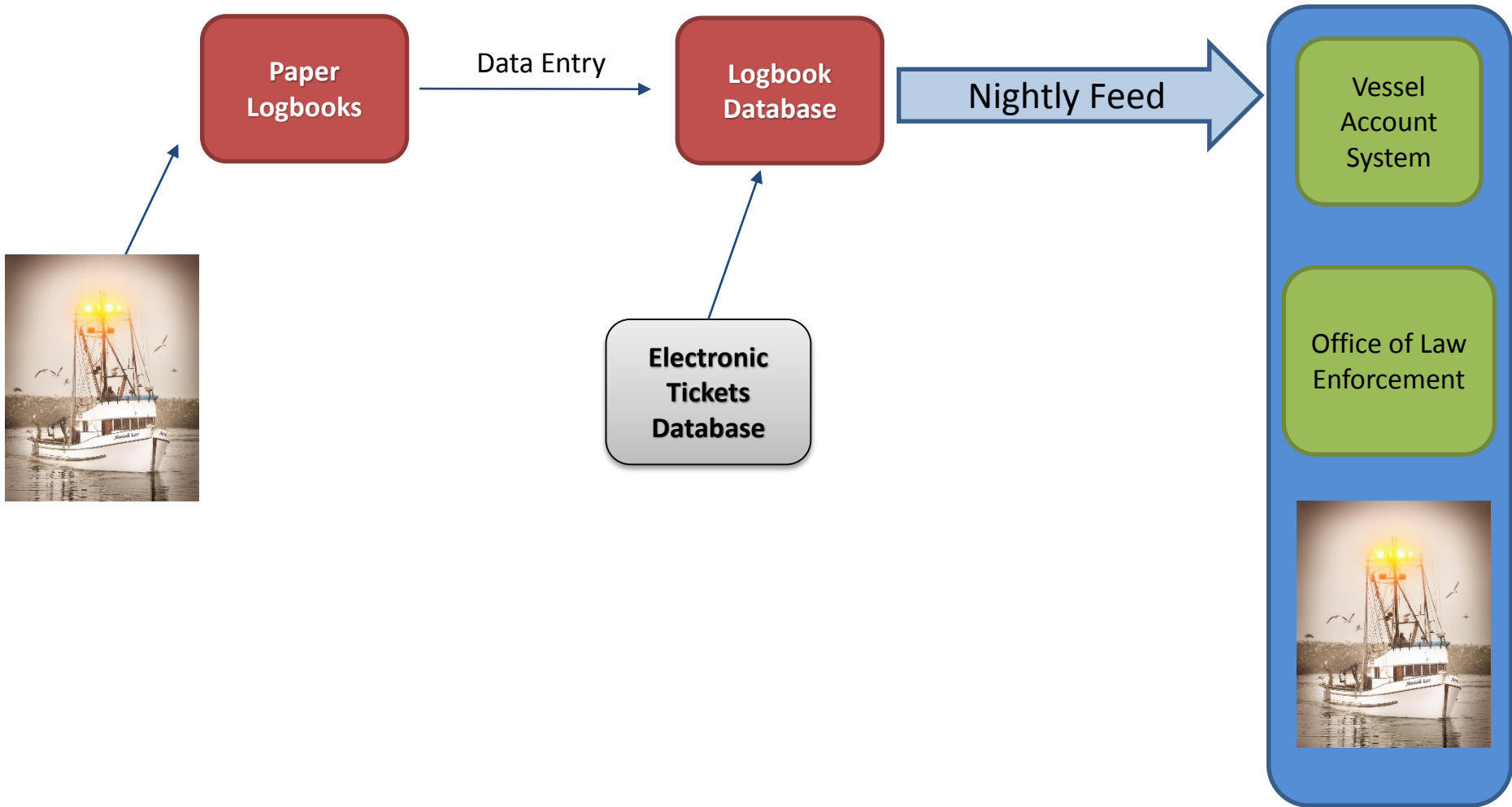
Signature: _____

VESSEL: _____ FISH RECEIVING TICKET NO. _____
 PORT: _____

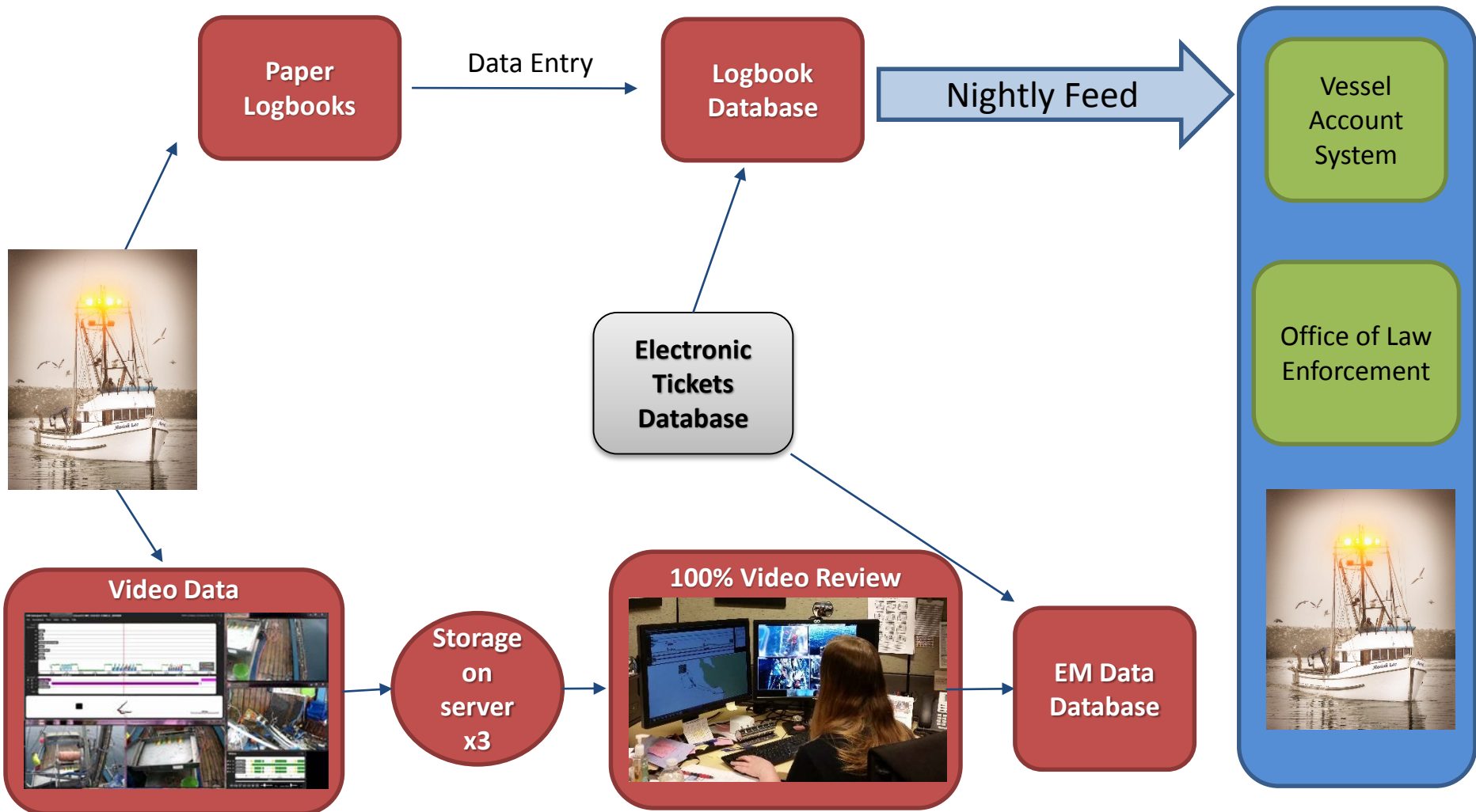
DATE (mo/day)	SET TIME	DISCARDED—Estimated pounds discarded each tow, enter the 4 letter code from the species list provided										RETAINED — Priority Species					
		PHLB											BOTH REQUIRED	CNRY	CWCD	BCAC	YEYE
		Pounds (Required)															
		Count															
		Pounds (Required)															
		Count															
		Pounds (Required)															
		Count															
		Pounds (Required)															
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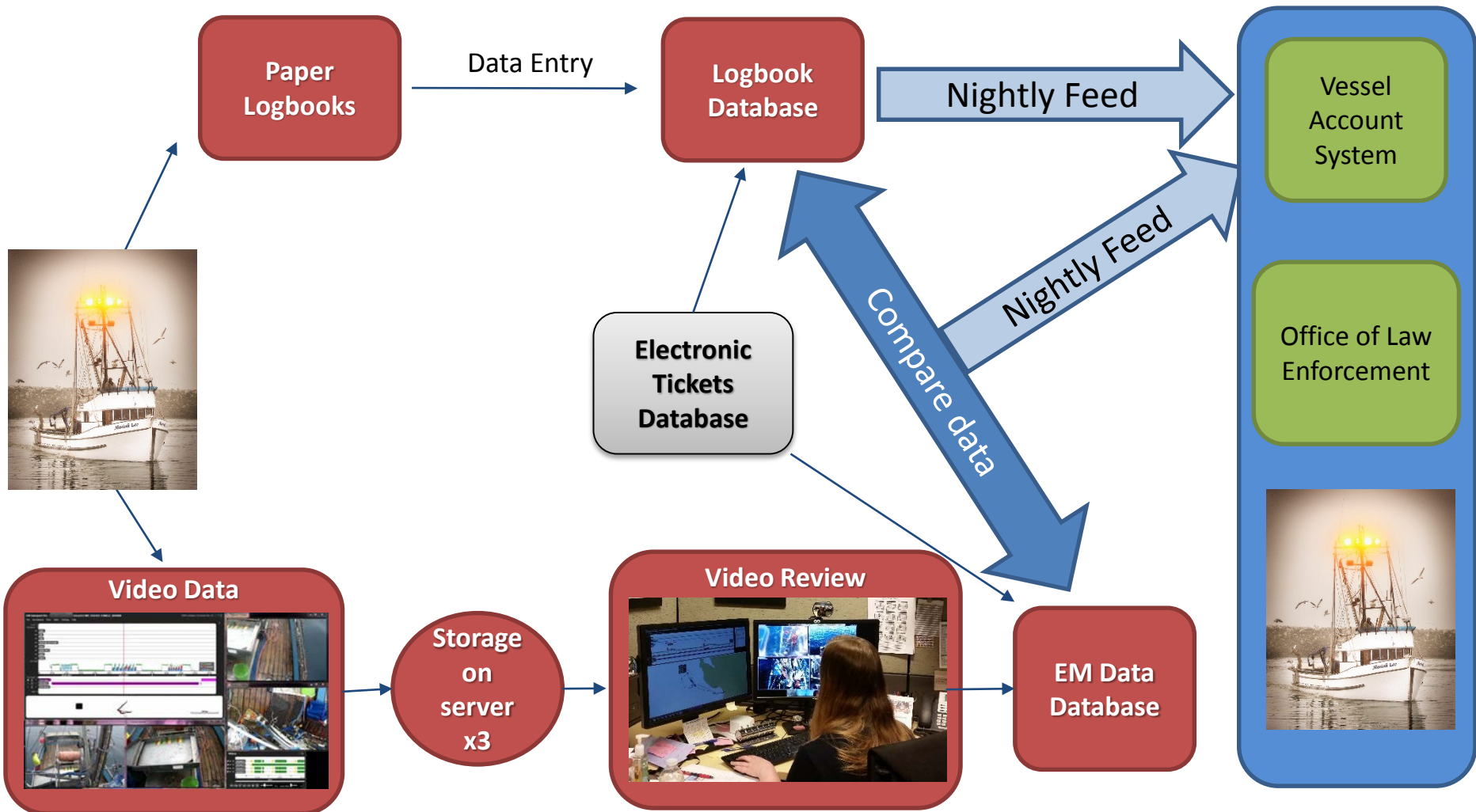
Electronic Monitoring



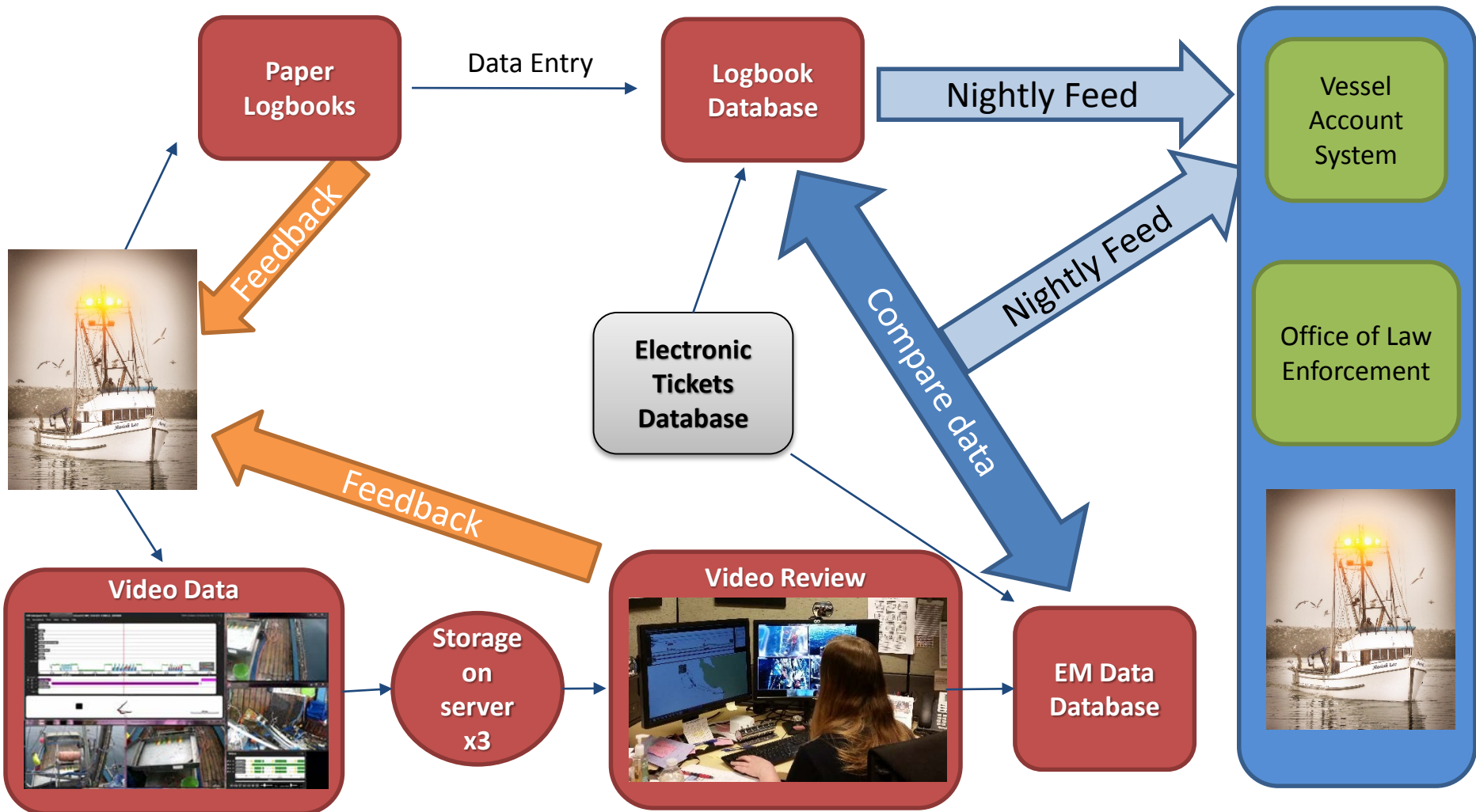
Electronic Monitoring



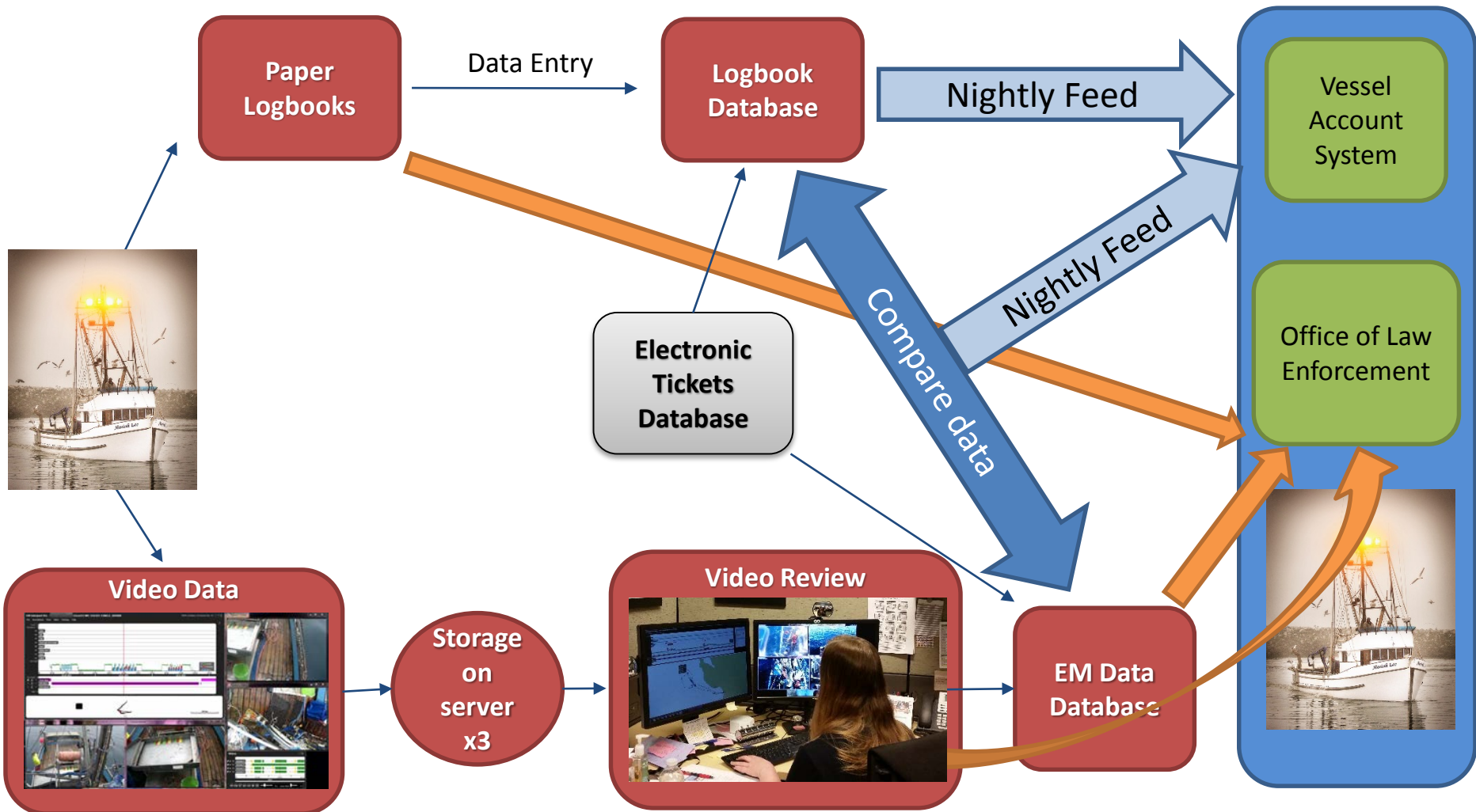
Electronic Monitoring



Electronic Monitoring



Electronic Monitoring



Electronic Monitoring



Vessel
Account
System

Office of Law
Enforcement

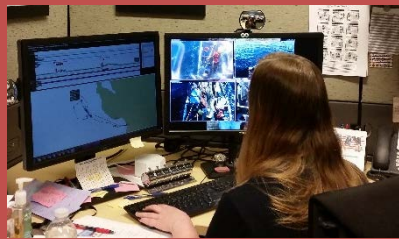


Video Data



Storage
on
server
x3

100% Video Review

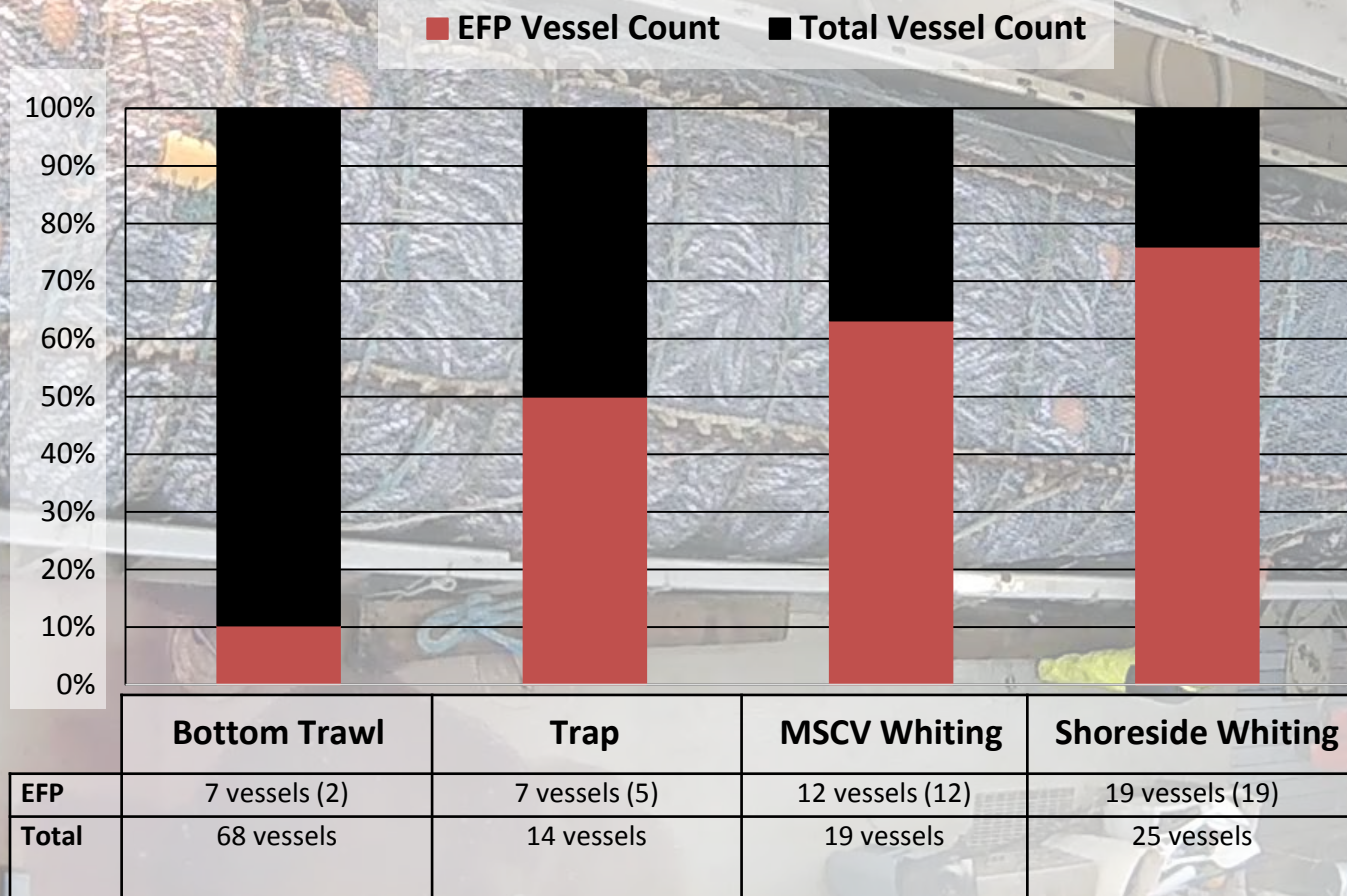


EM Data
Database



West Coast Exempted Fishing Permit (EFP)

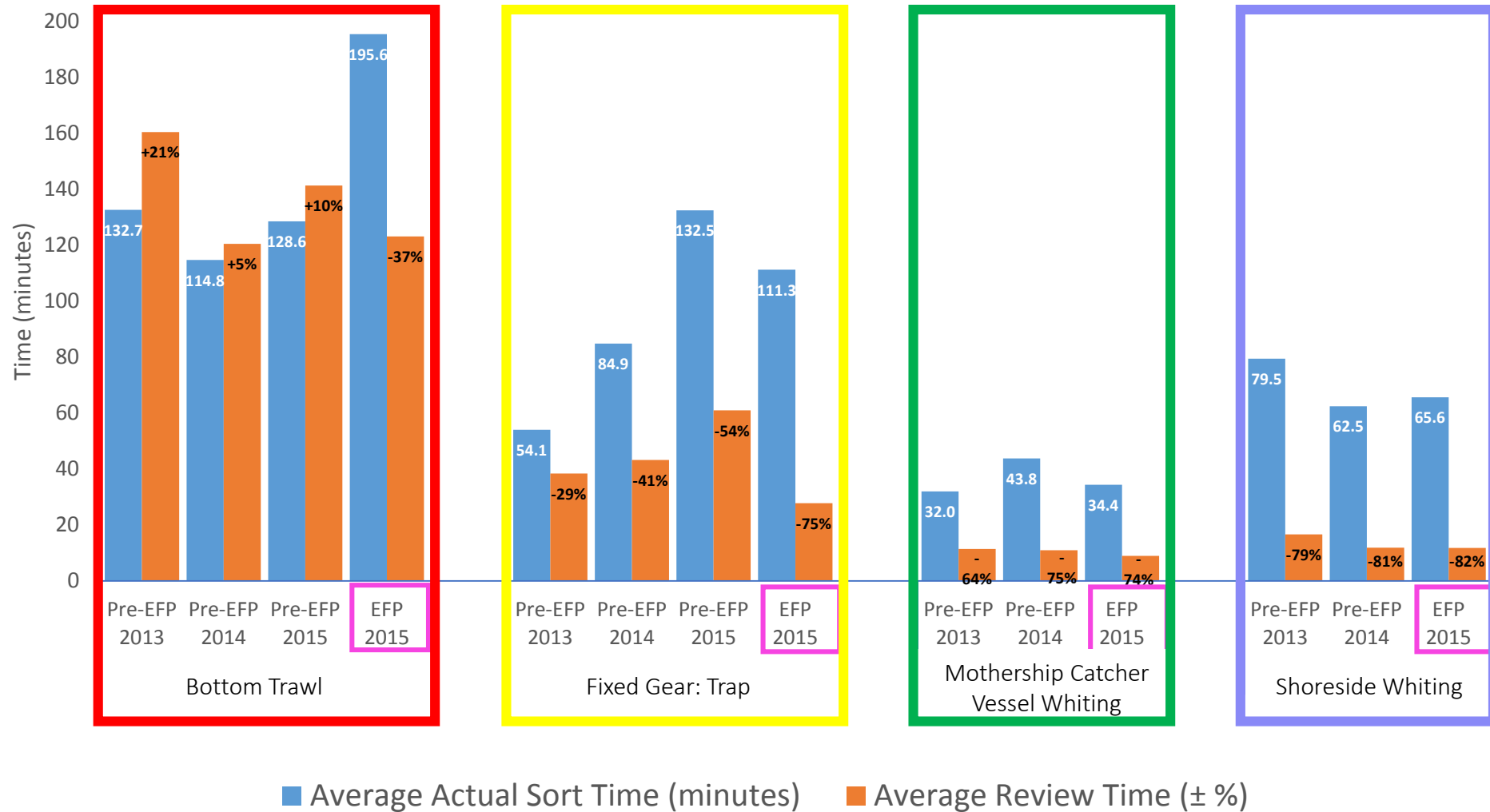
**Vessel Proportion Comparison:
Total per Fishery vs. EFP Participants per Fishery**



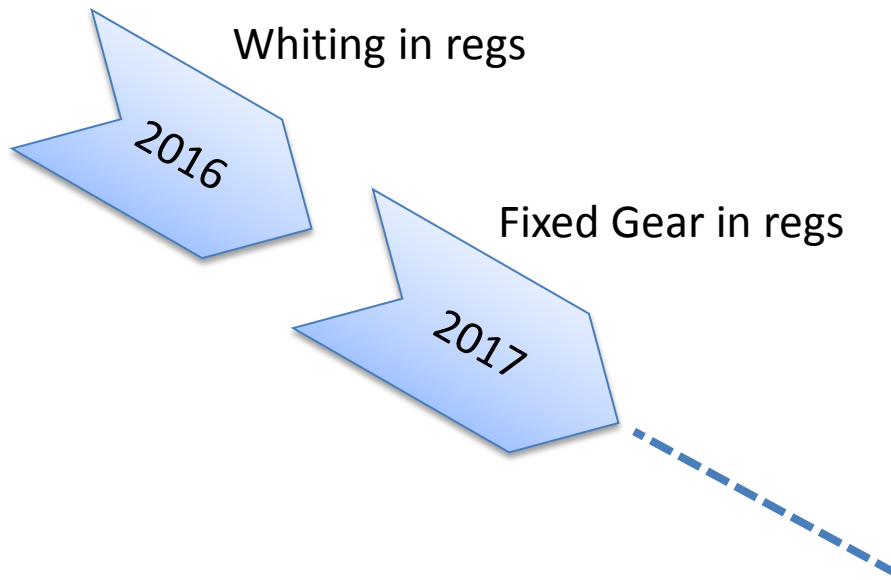
West Coast Exempted Fishing Permit (EFP)

EFP vs Pre-EFP:

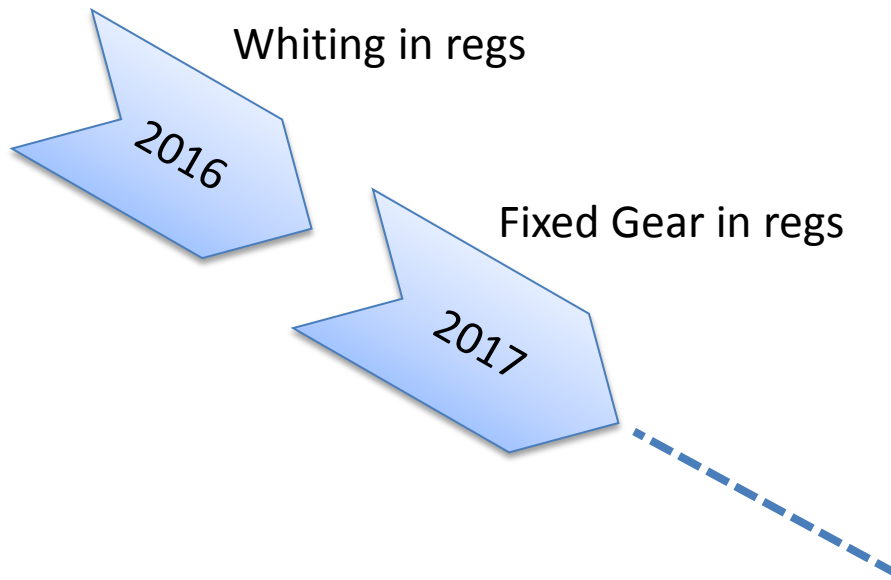
Average Haul Review Rate & Average Actual Sort Time Comparison



Electronic Monitoring: What's Next?



Electronic Monitoring: What's Next?



Existing CFIN Programs

Report detailing each program available

California
Groundfish
Catch
Monitoring

Observer and CM
Provider
Reimbursements

Compliance
Monitoring
(CM)

Age Reading

PacFIN

E-Tickets

Economic
Data Reports

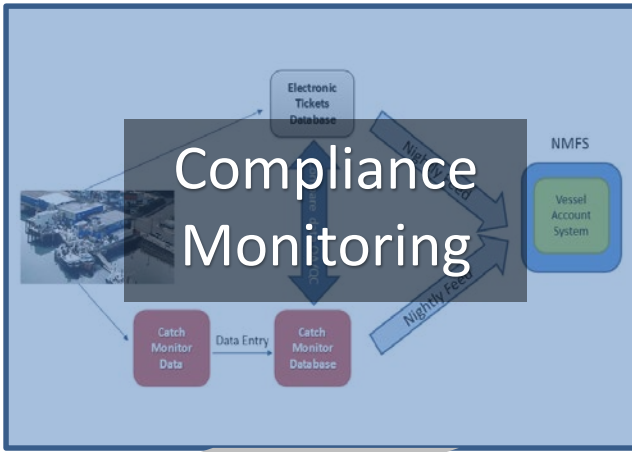
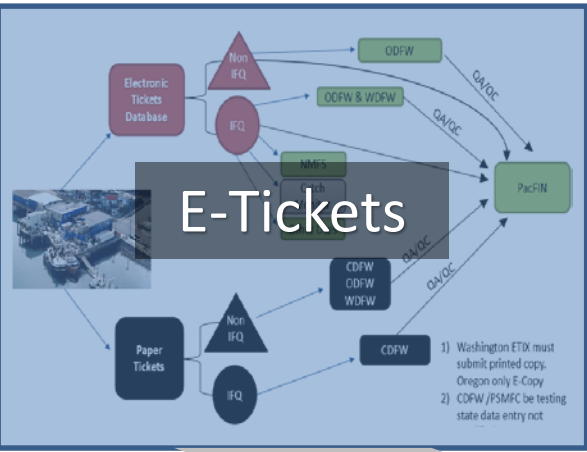
AK Salmon
Disaster

Observer

AKFIN

Bycatch
Reduction

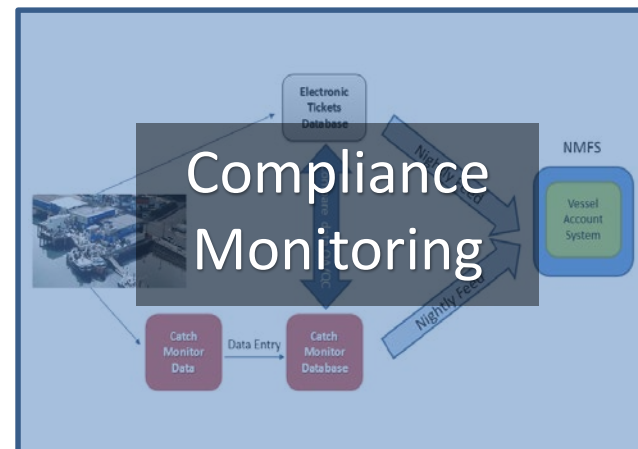
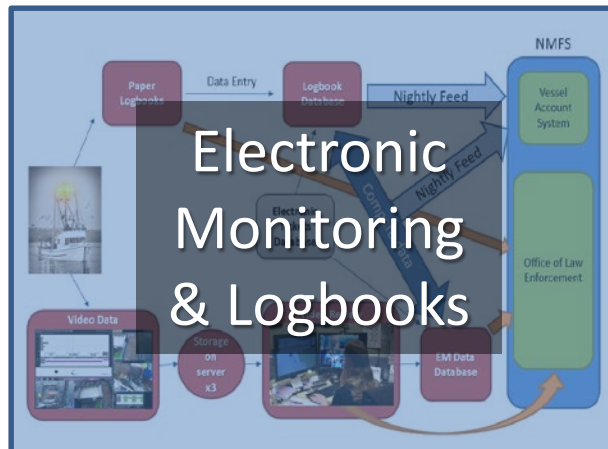
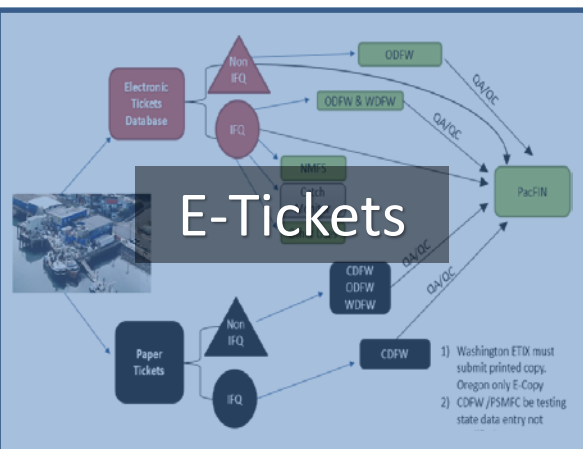
Pinnipeds



**Nightly
Feed**

Vessel Account System

NOAA PACIFIC COAST GROUND FISH
INDIVIDUAL FISHING QUOTA
NATIONAL MARINE FISHERIES SERVICE



Nightly Feed

Vessel Account System



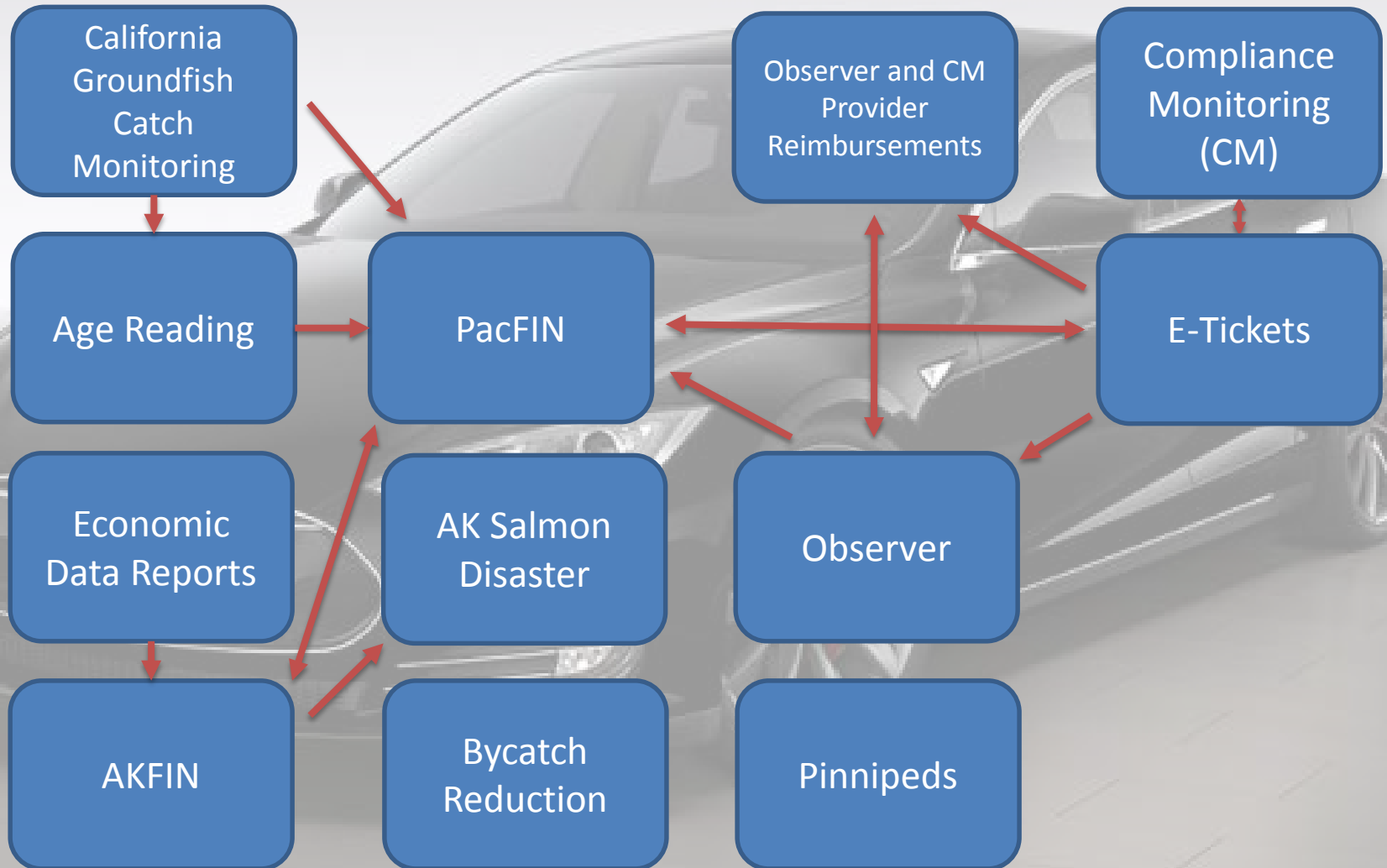
NOAA

PACIFIC COAST GROUNDFISH INDIVIDUAL FISHING QUOTA



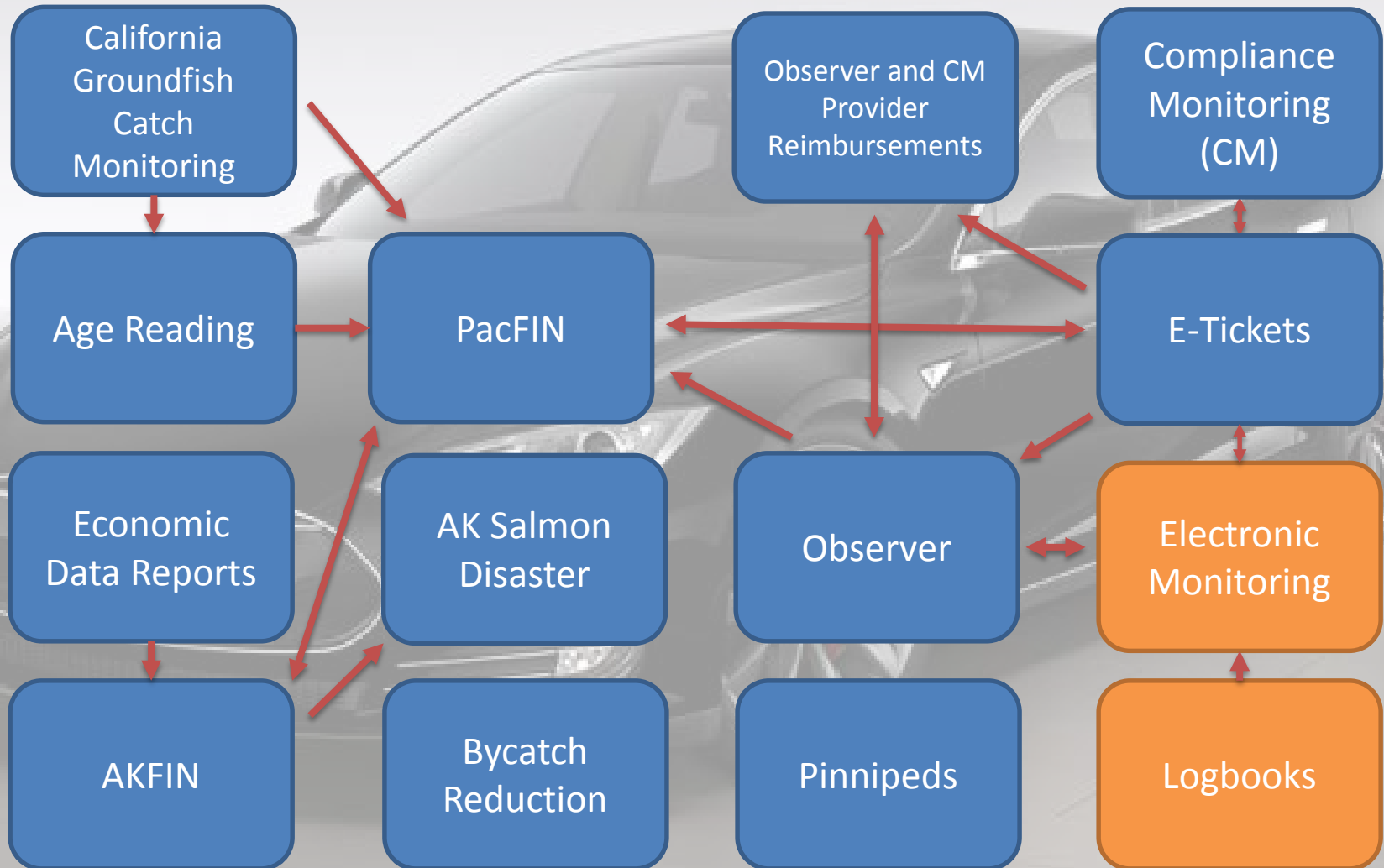
Existing CFIN Programs

Report detailing each program available



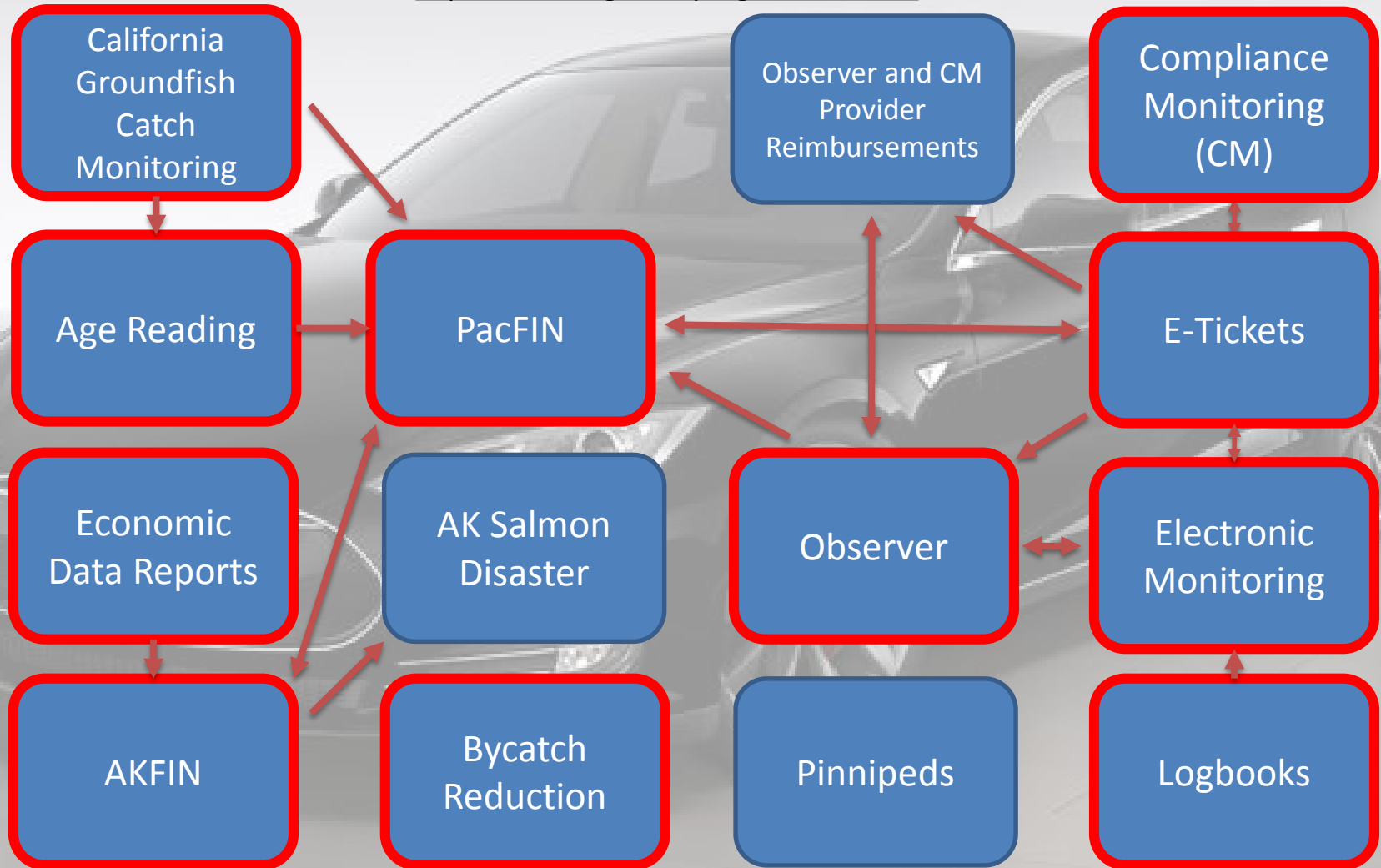
Existing CFIN Programs

Report detailing each program available



Existing CFIN Programs

Report detailing each program available





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Questions?