



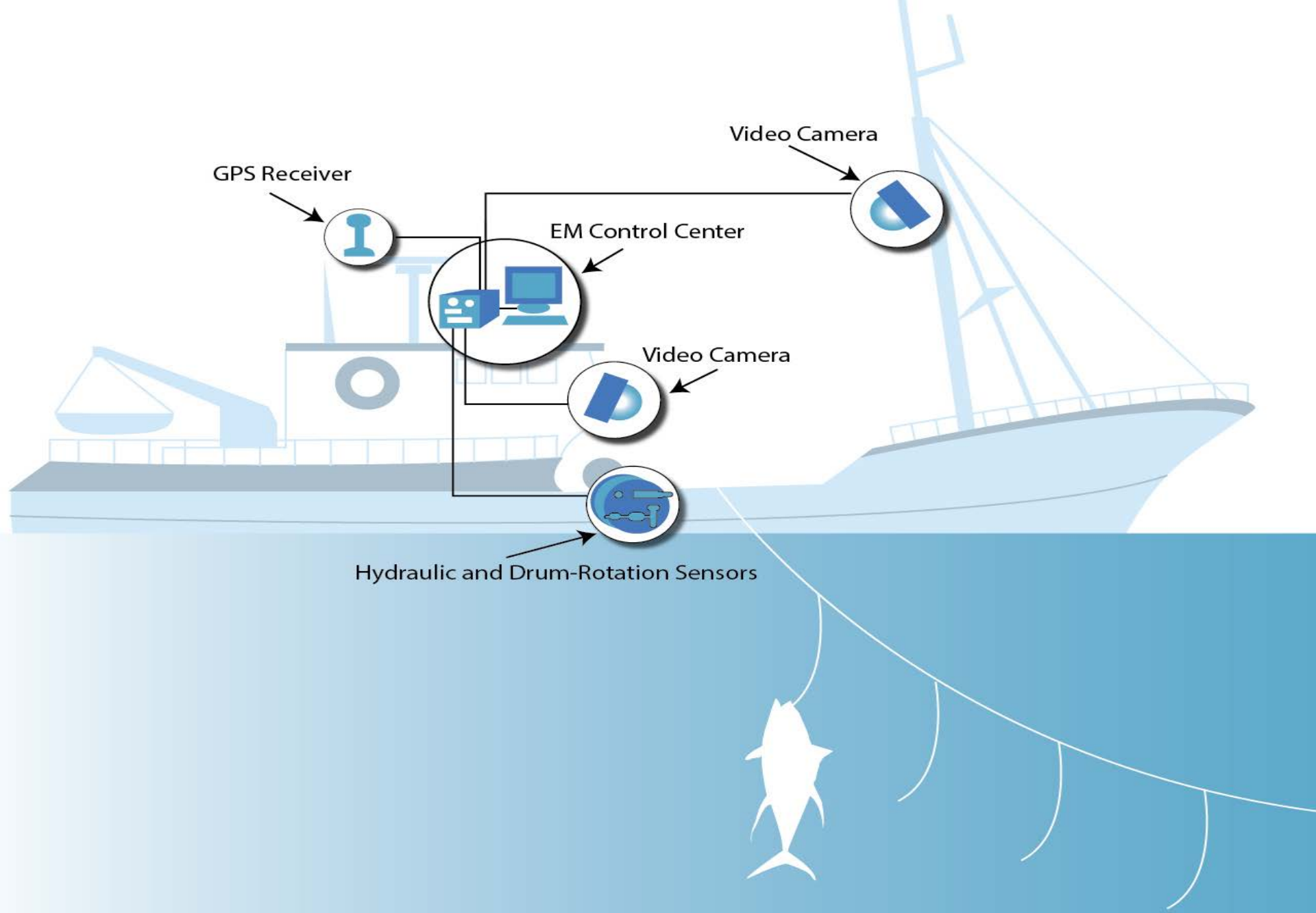
**NOAA**  
**FISHERIES**

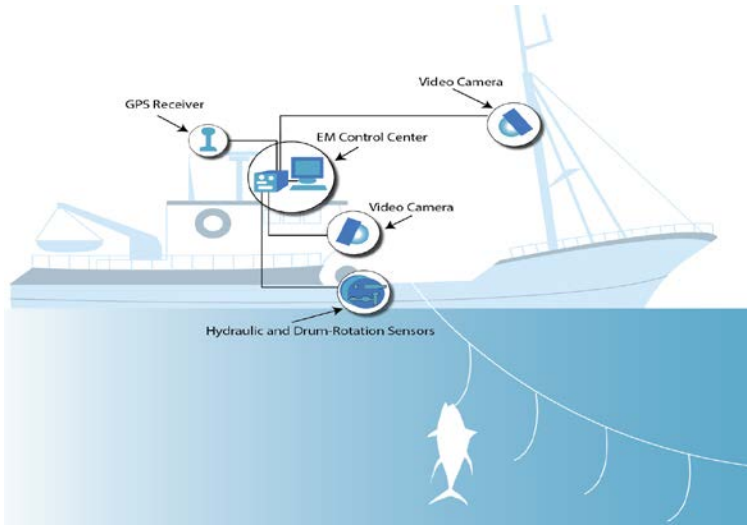
# Electronic Monitoring Policy Development

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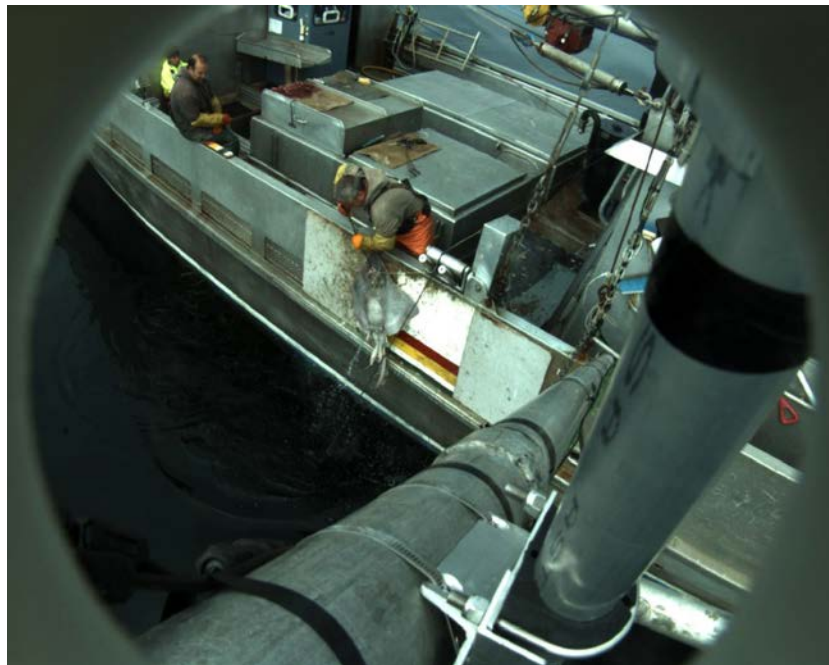




Data  
submitted  
to NMFS

# Electronic Monitoring (EM) Policy Development

- Policy Directive - Electronic Technologies (2013)
- Cost allocation
- Video storage
- Video review
- Access and ownership
- EM standards
- New Regional Implementation Plans



# NOAA Fisheries ET Policy Directive - 2013

- Guidance for fishery-dependent data collection
  - Vessel monitoring systems, electronic reporting, and EM
- Objectives
  - Encourage to adopt ET
  - Complement and/or improve existing programs
  - Cost-effectiveness and sustainable implementation
  - Align management goals, data needs, funding sources, and regulations
  - Coordinate costs between the Agency and industry

# Procedural Directive on EM Cost Allocation

- Decreasing budgets and increasing data demands
- Specify costs and monitoring functions
- NOAA will not approve a program if:
  - Provisions create an unfunded or unsustainable cost
- Program funding should consider:
  - a range of funding authorities
  - existing cost recovery provisions
- Develop transition plans for existing programs

# Fishing Industry – Sampling Costs

- Hardware
  - Purchase/lease, install, maintain, and replace
- Training for captain and crew
- Develop vessel monitoring plans (VMPs)
- Video and data transmission to reviewers
- Initial video review and storage
- Service provider fees and overhead

# NOAA Fisheries – Administrative Costs

- Program administration support
  - Address science, enforcement, and management needs
  - Review VMPs, troubleshoot issues, manage vessel selection
- Certification of EM service providers
- Program performance monitoring
  - Audit service providers (video and data)
  - Ensure data quality standards
- Data analysis and storage of Federal records



# Procedural Directive on EM Cost Allocation

Cost Category	Cost Responsibility
Sampling costs	<ul style="list-style-type: none"><li>• Industry</li><li>• NOAA Fisheries - fees collected from industry<ul style="list-style-type: none"><li>- EX: North Pacific landings fee</li></ul></li><li>• NOAA Fisheries for specific Federal programs<ul style="list-style-type: none"><li>- EX: ESA, MMPA, SBRM</li></ul></li></ul>
Administrative costs	<ul style="list-style-type: none"><li>• NOAA Fisheries</li><li>• NOAA Fisheries - fees collected from industry<ul style="list-style-type: none"><li>- EX: West Coast cost recovery program</li></ul></li></ul>

# Cost Allocation Transition and Final Directive

- Establish provisions within 2 years
- Implementation within 5 years total
- Provisions must include:
  - List of allocations by category
  - Step-wise transition, if appropriate
- Timeline to complete final directive
  - February 2018 – Presented to CCC
  - Spring/Summer 2018 – Council review
    - Comments due Aug 1
  - Fall 2018 – Finalize directive



# Video Storage and Retention - Overview

- Video Storage Cost Survey (Mar 2018)
  - Transmission methods and security protocols
  - File types/sizes, video resolution, and storage type
  - Review and access
- Federal – National Archive and Records Administration
  - Current - Retain with observer records (indefinitely)
  - Future – New retention schedule for video and images
    - ~6 month process, 45-day comment period, NARA publishes an FR notice
- Non-Federal – Third-party service providers
  - Current – Retained indefinitely
  - Future – New procedural directive and guidance to Regions

# Video Review - Overview

- Current – Human review of most/all video
- Reduced human review
  - Review a portion (e.g., 20%) of trips, hauls, catch, etc.
- Computer-assisted human review
  - Review fishing events only
  - ID flat vs roundfish
  - ID species with human audit
- Computer review (mostly)
  - ID species
  - Collect length/weight
  - Monitor compliance

Type	flat
SubType	plaice
Count Label	ignore
Fish ID	2
Total Fish	78
Frame Counted	3671
Go To ID:	<input type="text"/>
Add Region	
Remove Region	
Next + Copy	



# Additional EM Policies and Issues

- Data access, ownership, and confidentiality
  - Part of a broader discussion on data modernization
  - Involves States, fishing industry, Councils, and other partners
- EM standards
  - Hardware, software, data, and video review/machine learning
  - Balancing act across Regions, EM providers seek standards
  - Discussions by Agency working group, support from Knauss fellow
- Update 2013 ET Policy Directive
  - Regional ET Plans created in 2015, 4 bi-annual updates
  - Working on guidance to Regions for new plans
    - Looking forward 3-5 years
    - Include new initiatives and issues

# Thank you

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# Additional slides



# ET Policy Directive – Cost provision

- *“No electronic technology-based fishery-dependent data collection program will be approved by NOAA if its provisions create an unfunded or unsustainable cost of implementation or operation contrary to applicable law or regulation. Funding of fishery dependent data collection programs is expected to consider the entire range of funding authorities available under federal law, including those that allow collection of funds from industry. Where cost-sharing of monitoring costs between the agency and industry is deemed appropriate and approved under applicable law and regulation, NOAA Fisheries will work with Councils and stakeholders to develop transition plans from present to future funding arrangements”.*