



# IUU Fishing: the Port State Measures Agreement and advances in the use of new technologies to improve compliance



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United Nations

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## Definition of IUU Fishing (Originally defined in FAO IPOA-IUU, 2001)

### Illegal

- Fishing and fishing-related activities conducted in contravention of national, regional and international laws.

### Unreported

- Non-reporting, misreporting or under-reporting of information on fishing operations and their catches.

### Unregulated

- Fishing by “Stateless” vessels.
- Fishing in convention areas of RFMOs by non-party vessels.
- Fishing activities which are not regulated by States and cannot be easily monitored and accounted for.
- Fishing in areas or for fish stocks for which there are no conservation or management measures.



## Impacts of IUU fishing

- Threat to marine ecosystems
- Undermines national and regional sustainable fisheries management
- Threat to livelihood of fisheries and other stakeholders, and exacerbates food insecurity, poverty and malnutrition

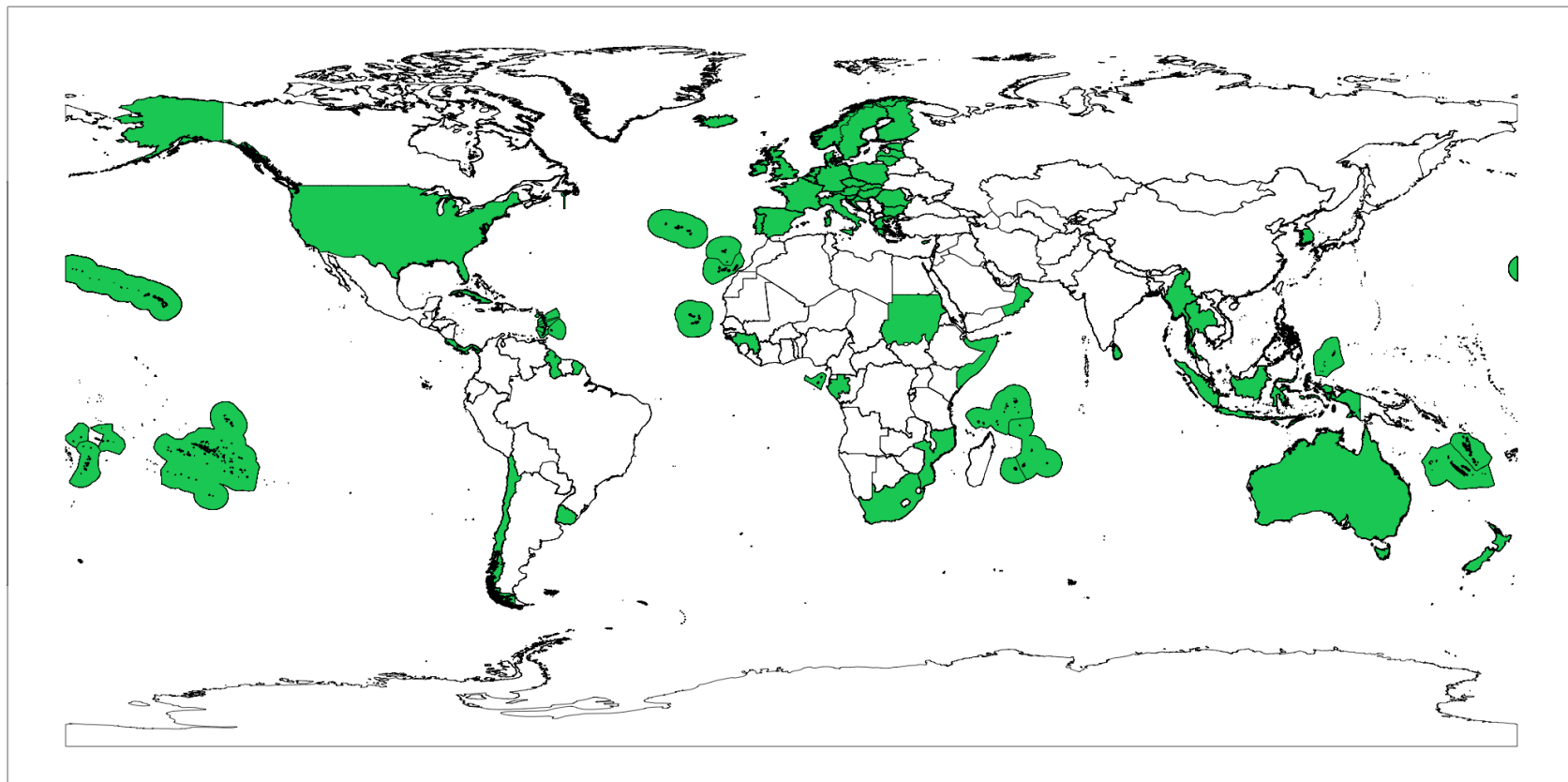
## Combatting IUU fishing requires action at all levels

- Flag States (→ VGFSP)
- Coastal States
- Port States
- Market States (→ CDS)

⇒ **FAO Port State Measures Agreement**



## Status of the PSMA: entry into Force 5<sup>th</sup> June 2016



As of 29<sup>th</sup> November, 38 Parties (including the EU as 1 Party) [http://www.fao.org/fileadmin/user\\_upload/legal/docs/037s-e.pdf](http://www.fao.org/fileadmin/user_upload/legal/docs/037s-e.pdf)

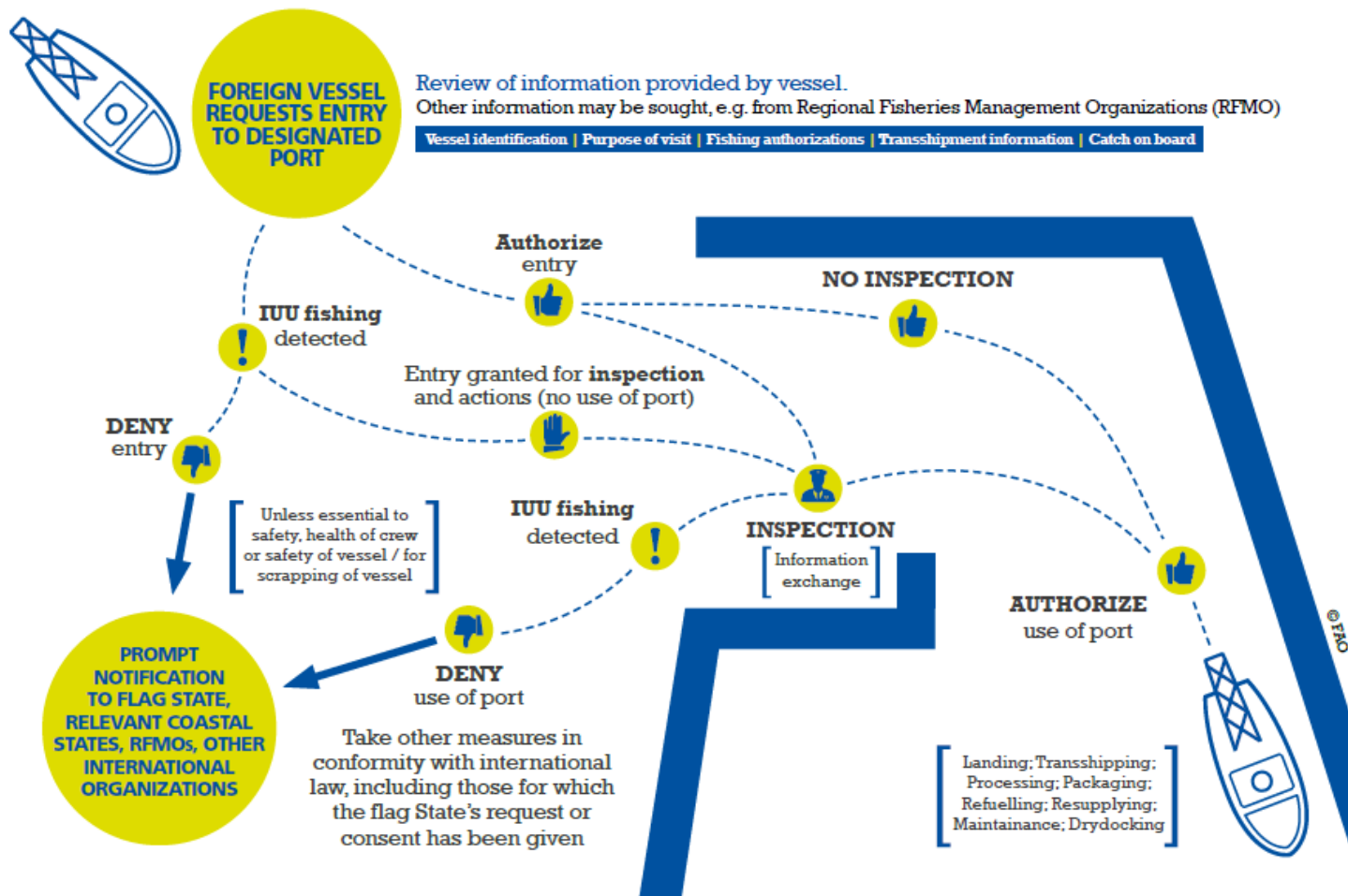


# FAO Port State Measure Agreement

- Agreement **binding** for the Parties
- Aims to **prevent** fish caught through IUU activities **to enter national/international markets**
- Implementation with complementary instruments and regional mechanisms
- Effectiveness increase with number of parties → close **ALL ports** to IUU products
- Challenges for implementation:
  - Financial burden on Port States
  - Shortcomings in national policies and national legal framework
  - Weak institutional and operational capacities
  - Poor cooperation and coordination at national and regional level
- Funding mechanisms to be established under Article 21 of the PSMA



# FAO PSMA Operations



Check activities beyond national jurisdiction (high seas and other coastal states waters)

Strengthen traceability schemes

Demands and incentivises inter-agency collaboration and cohesion

PSMA Requirements = Opportunities

Strengthen information exchange on fishing capacity, MCS and IUU fishing

Encourages flag State to exercise responsibilities to enforce against IUU fishing

Enhances coordinated inspections and sharing of information

Regular meeting of parties (cooperation)



## FAO Capacity Development Umbrella programme

- FAO is broadening its capacity development programme to combat IUU fishing by...

*... Supporting the cohesive implementation at national and regional level of the provisions of the PSMA and complementary international instrument and regional mechanisms*

- Identification, prioritization and planning of activities will be country-led, informed and participatory
- Programmatic approach to address IUU fishing
- Partnership framework including national, regional and global projects
- **Requires collaboration and cooperation**
  - RFMOs
  - In-country agencies
  - IGOs, regional projects
  - NGOs
  - Regional economic integration organizations
- Early 2017, first gap analyses and needs assessments for: *Cuba, Dominica, Gabon, Guinea, Guyana, Mozambique, Myanmar, Palau, Somalia, South Africa, Sudan, Thailand, Tonga and Vanuatu* => development of strategies and actions plans



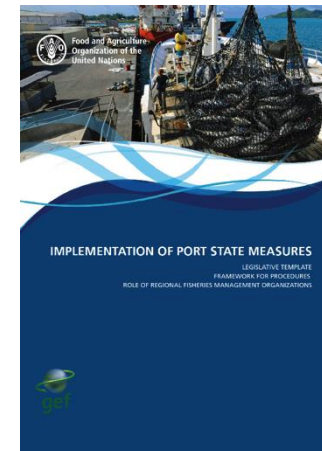


## PSMA Related activities

## PSM Legislative templates (Swan, 2016)

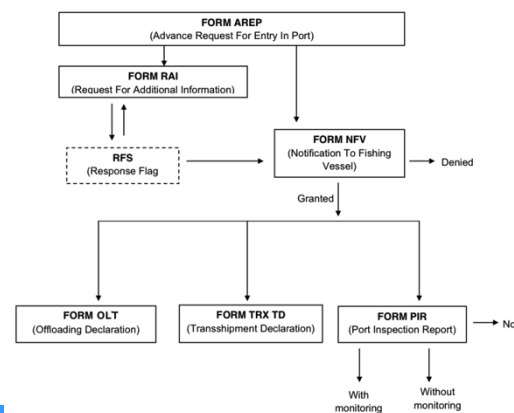
[www.fao.org/3/a-i5801e.pdf](http://www.fao.org/3/a-i5801e.pdf)

- Common Oceans ABNJ Tuna Project
- Generic templates that can be adapted to different legal systems



## IOTC ePSM

- Integrated electronic system from start to end of the PSM operations:
  - Submission of AREP by vessel
  - Review by Port State and acceptance/denial entry into port
  - Landing/Transshipment declaration and inspection report

[illegible]

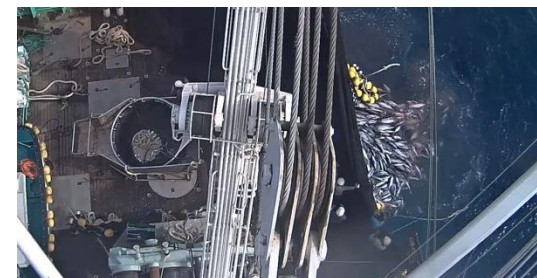
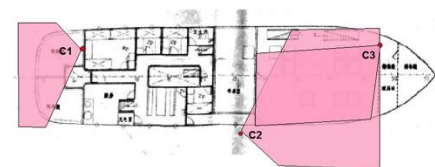
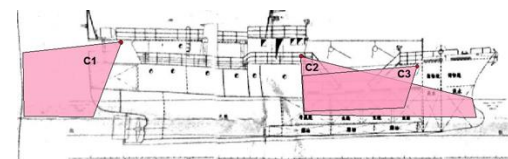
## Advance in new technologies to improve compliance

1. Electronic Monitoring Systems
2. Electronic Reporting Systems
3. CLAV and GVR
4. Automatic Identification System
5. Others...



# Electronic Monitoring System

- Georeferenced video/photos recorded on fishing vessels
    - Cameras (3 to 6) placed to provide view of key areas of the vessel
    - Record 24/7 or sensor triggered (speed, hydraulic, etc.)
  - Being used/tested as:
    - Data collection tool (CE, SF, Species Id)
    - Monitoring Control and Surveillance tool
  - Benefit of EM:
    - Reduced cost and increased coverage
    - Practical solution on logistic/safety of placing observer
    - Objective/Replicable/Verifiable
    - Improve data quality
    - Improve compliance (with evidences)
    - Risk assessments
- ... But need adequate legal framework

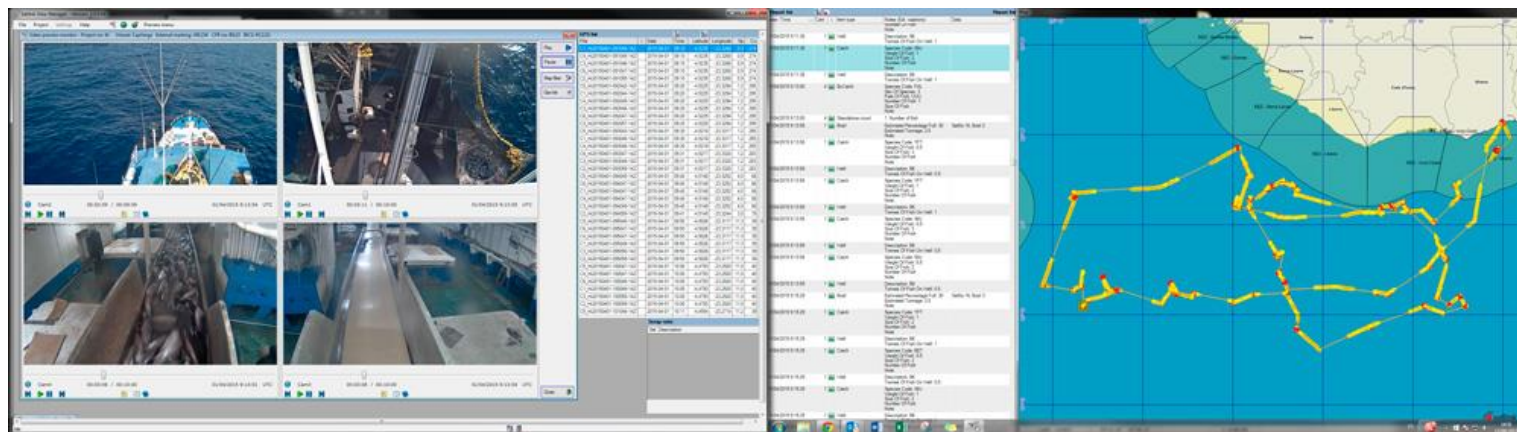
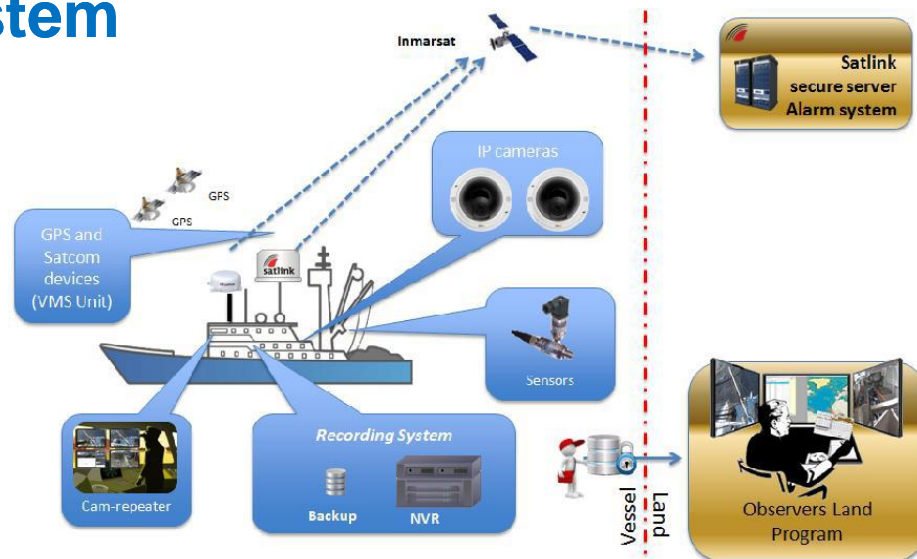


⇒ Two pilots under the Common Oceans Tuna Project



# Electronic Monitoring System

- Catch and Effort data
- Species identification
- Vessel environment
  - Transshipment
  - Supplying
  - Pollution



# Electronic Reporting System

- Numeric reporting of traditionally paper-based system
  - logbooks
  - observer reports
  - Transshipment reports
  - Sampling reports
- Open system with manual inputs
- Online possibilities => near-real time data
- Benefit:
  - Faster reporting and integration into database
  - Cross-checking and data validation

Improved data flow, data quality and compliance with a certain number of CMMs (data collection and reporting, logbook, monitoring of catch allocation, etc.)

- Also eReporting at the level of RFMO
  - Facilitate reporting obligations of CPCs
  - More efficient way to monitor compliance and CPCs performance
  - Allow not only for quantitative assessment but also qualitative



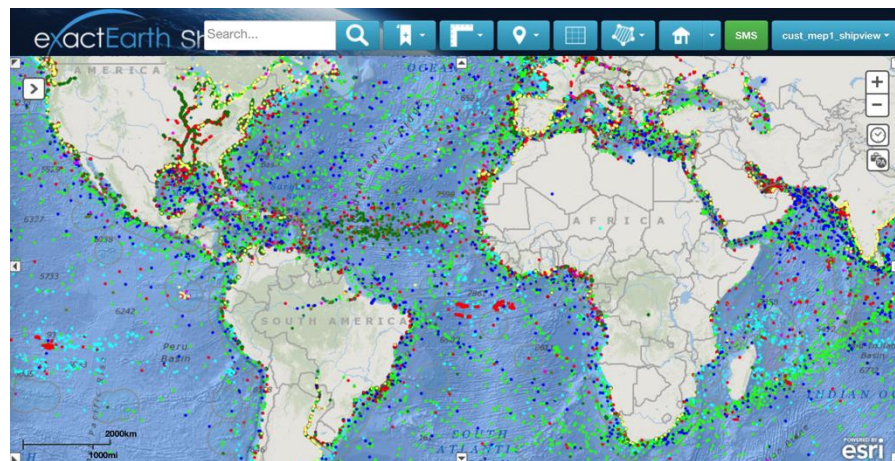


## Automatic Information System (AIS)

- VSM used for many years by Flag and Coastal States to monitor compliance but...
  - Cost associated to communication
  - VMS data often sent to Flag State only, and available to 3rd parties for “legal” activities
- AIS: developed as a anti-collision tool, VHF based and not limited to fishing vessels
  - Range extended thanks to satellite => Global
  - Can allow detection of suspicious activities
  - Free communication cost and small size (can be implemented on small scale and artisanal vessels)
  - Can be integrated with VMS and other data sources (SAR, etc.)

*But...*

- Not mandatory
- Not tampered proof



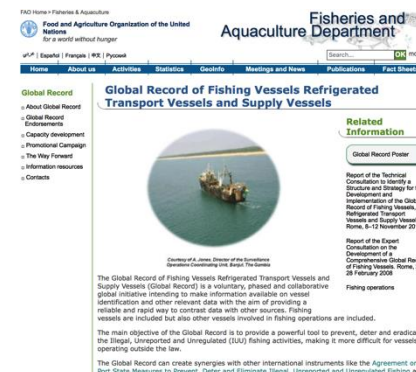
# CLAV and GVR

**CLAV** – List of authorized vessels from t-RFMOs (<http://www.tuna-org.org/GlobalTVR.htm>)

**GVR** – Global list of registered fishing vessels and vessels supporting fishing activities

- Centralizing vessel-related information
- Certified information on vessel, owners, authorization and history
- Target users:
  - Port States
  - Coastal States
  - Market States
  - RFBs/RFMOs
  - Other (NGOs, public, etc.)

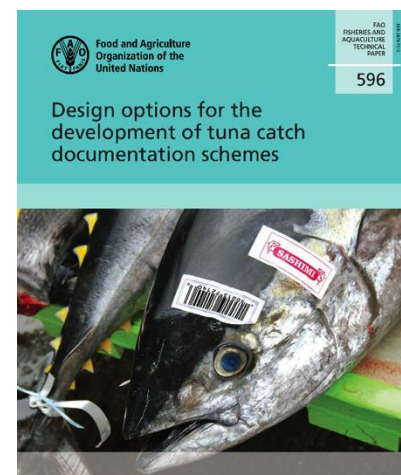
=> **Strong link and synergies with PSMA**

## Catch Documentation Schemes

- Fisheries products followed from fishing grounds to port... but after...
  - Catch Documentation Scheme allows to follow the catch from the unloading to the consumers
  - Ensure that no IUU product enters the market
  - Global traceability system
  - Start with a Catch Certificate, and movement followed through procesing, trade, etc.
- => Link between Catch Certificate and Trade Certificate(s)

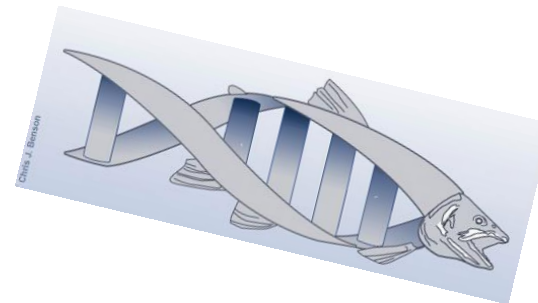
Design options for CDS developed under the Common Oceans ABNJ Tuna Project (Hosch, 2016)  
FAO also developing Guidelines for CDS





## Others

- Genetics, Genomics, Chemistry and Forensics
  - Species identifications
  - Catch location
- Unmanned Air Vehicle and Unmanned Surface Vehicles
  - Developing technology with high potential
  - Large variety of sensors can be embarked (
  - Cost?





Thank you

