



Information Fusion Centre



Increasingly Complex Global Shipping Patterns

90% of world trade is in containers, oil, gas, chemicals, dry bulk commodities and other dry cargo¹



Annually 130,000,000 containers on cargo ships sailing across the world's oceans²

The world's commercial fleet stand between 85,000 ~ 91,000 vessels³

At any given point of time, approximately 3 million people are at sea

- 1) United Nations Conference on Trade and Development (UNCTD) The Review of Maritime Transport 2016 (Latest Version), http://unctad.org/en/PublicationsLibrary/rmt2016_en.pdf
- 2) "Containers lost at Sea," Page 4, [http://www.worldshipping.org/industry issues/safety/Containers_Lost at Sea - 2017 Update FINAL July 10.pdf](http://www.worldshipping.org/industry%20issues/safety/Containers_Lost_at_Sea_-_2017_Update_FINAL_July_10.pdf),
- 3) European Maritime Safety Agency, "The World Fleet in 2015", <http://www.emsa.europa.eu/equasis-statistics/download/4429/472/23.html>



Information Fusion Centre

Purpose

To provide actionable information on MARSEC threats so as to cue enforcement agencies for operational responses



Integrated IFC team



Extensive Linkages



Enabling Technologies



Extensive Global Linkages

- Australia
- Belgium
- Brazil
- Brunei
- Cambodia
- Canada
- Chile
- China
- Denmark
- France
- Germany
- Ghana
- India
- Indonesia
- Italy
- Japan
- Madagascar
- Malaysia
- Myanmar
- Netherlands
- New Zealand
- Nigeria
- Norway
- Pakistan
- Peru
- Philippines
- Portugal
- Russia
- Senegal
- Seychelles
- Singapore
- South Korea
- Spain
- Sri Lanka
- Thailand
- United Kingdom
- United States
- Vietnam
- Yemen

- MDAT - GOG
- IMB
- NATO
- ReCAAP
- UKMTO



72 agencies in 39 countries



Enabling Technologies

Multiple information sources collated and stored in OASIS while SMART acts as the "brain" to process the information collected

Commercial Sources

International Partners

National Agencies

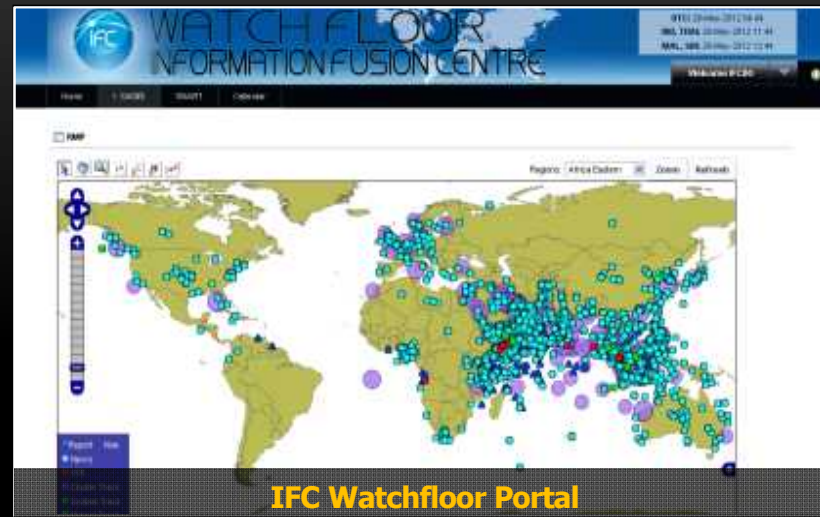
Shipping Community



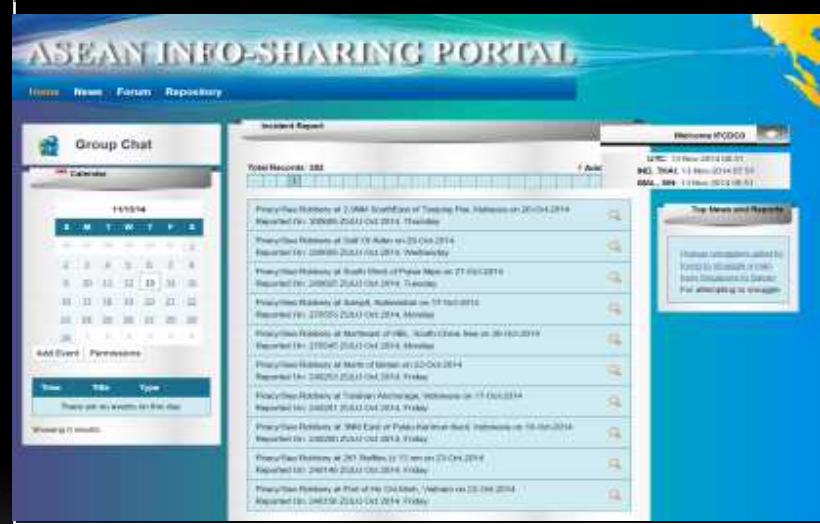
- Connects the dots
- Identify emerging trends
- Provide early warnings

- Living Repository
- Data Fusion
- Information Management

Customised user profiles can be rapidly configured via OASIS to meet the information needs of different stakeholders



IFC Watchfloor Portal



ASEAN Info-sharing Portal (AIP)

OASIS - Open and Analysed Shipping Information System

SMART - Sense-Making and Research Tool



International Liaison Officers (ILOs)

23 countries have deployed ILOs to the IFC



Australia



Brunei



China



Cambodia



France



Canada



Chile



India



Indonesia



Japan



Malaysia



Myanmar



Greece



Italy



New Zealand



Peru



Philippines



Thailand



United Kingdom



Pakistan



South Africa



United States



Vietnam

IFC Shipping Engagement

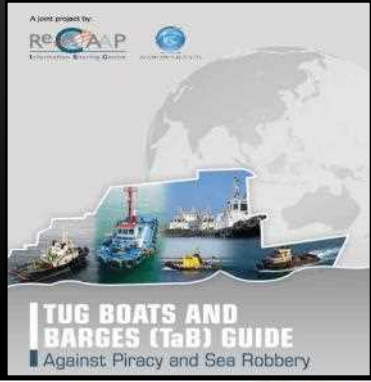
**Voluntary
Community
Reporting
(VCR)**



Shared Awareness Meetings

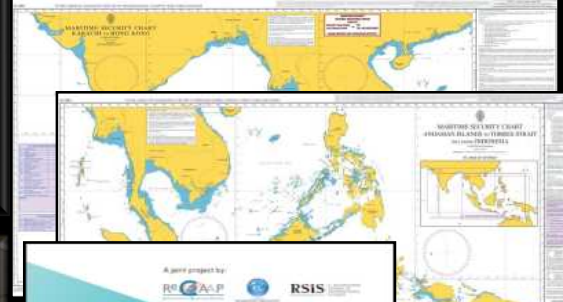


Tiger Team Visits

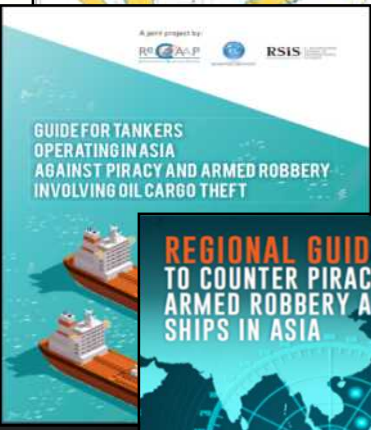


**Collaborative Shipping
Engagement initiatives
with ReCAAP -ISC**

**1 - Tugs and
Barge Guide**



**2 - Maritime
Security
Charts**



**3 - Guide for
Tankers
operating in
Asia**



**4 - Regional
Guide to
Counter Piracy
and Armed
Robbery**



Operational Involvement in MARSEC Incidents



MV ALICIA
Jul 11
(Illegal Immigration)



MH370
Mar 14
(SAR)



JOAQUIM
Aug 15
(Hijacked in MS)



HAI SOON 12
May 16
(Hijacked)



MV SUN SEA
May 10
(Human Immigration)



ZAFIRAH
Nov 12
(Hijacked in SCS)



QZ8501
Dec 14
(SAR)



MERLIN
Oct 15
(Sea Theft)



PRELUDE
Dec 16
(Oil Smuggling)

2009



SINAR KUDUS
Mar 11
(Hijacked in GoA)



GPT 21
Nov 13
(Hijacked in MS)



ORKIM HARMONY
Jun 15
(Hijacked)



F/V VIKING
Feb 16
(IUU Fishing)



ALICE
May 17
(Sea Robbery)



WOODMAN 38
Aug 12
(Hijacked)



V.L.14
Aug 14
(Hijacked)



PERMATA 1
Sep 15
(Sea Theft)



AD MATSU
Aug 16
(Sea Robbery)



Example of Operational Collaboration

HAI SOON 12 – 08 May 16
Hijacking in Java Sea





The IFC supports capacity-building activities and exercises

- **The IFC regularly hosts information-sharing workshops and exercises.**
- **These efforts aim to improve information-sharing and sense-making processes with various maritime stakeholders. They are also useful platforms to validate OPCEN linkages.**



SAFE AND SECURE SEAS FOR ALL