





The Use of Analytics to Increase Maritime Domain Awareness & Inter-Agency Response



Commonalities

- Lack of Resources
 - Human Resources
 - Operational Platforms (Sea and Air)
 - Budget
- Impact of Transnational Crime (TOC)
- Impact on natural resources
- Food Security



Information and Intelligence Analysis -What is Intelligence?

<u>Information (data) + Analysis = Intelligence</u>

- Information: Pieces of raw, unanalyzed data that identifies people, evidence, events, or illustrates processes indicating a criminal event or witnesses or evidences of a criminal event.
- Analysis: The process of deriving meaning from information or data; identification of
 information present or missing from facts or evidence. It involves thoughtful contemplation,
 making inferences or conclusions, and identifies recommendations for action.
- Intelligence: The product of an analytic process that evaluates information collected from diverse sources, integrates the relevant information, and produces a conclusion or estimate about criminal activity by using a methodical problem solving approach.







What is Intelligence?

<u>Purpose</u>

- **Prevention.** Intelligence used to apprehend criminals, harden targets, and develop strategies to eliminate or mitigate threats.
- Planning and Resource Allocation. Intelligence about the nature of criminal threats, their characteristics and methodologies, and evolving patterns to develop response strategies, reallocate resources, and accomplish effective prevention.

Tactical vs Strategic

- Tactical intelligence contributes directly to the success of specific investigations of criminal activity.
- Strategic intelligence deals with "big-picture" issues, such as planning and manpower allocation.
- Tactical intelligence directs immediate action; strategic intelligence evolves over time and explores long-term, large-scope solutions.







The Intelligence Process

- It is the means of developing raw information into finished intelligence products for use in decision making and formulating policies/ action.
- It provides mechanisms to ensure the consistent management of information that will be used to create intelligence.
- It applies to all crimes (maritime, drug trafficking, gangs, terrorism, and any other criminal enterprise).
- It seeks to identify potential threats, determine the status of suspicious activity, and provide indicators of criminality so that operational units can develop responses.

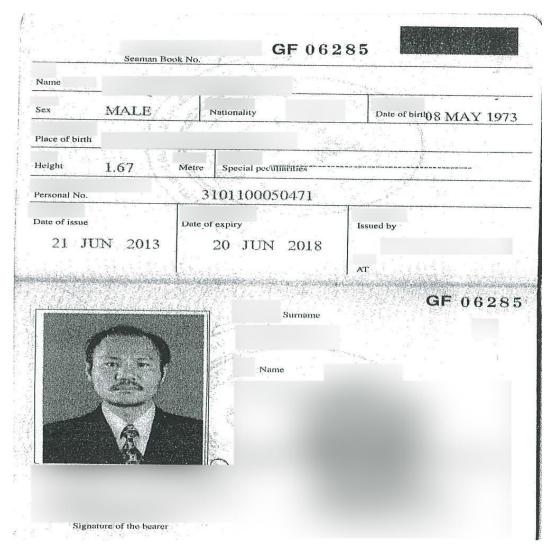


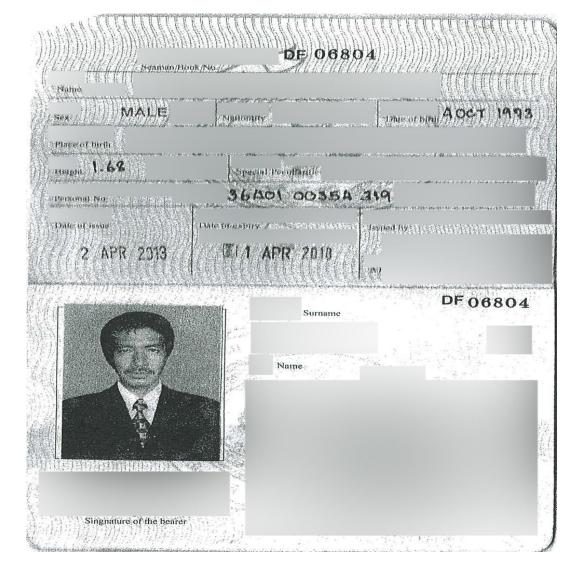
IBM i2 Analyst Notebook

- IBM® i2® Analyst's Notebook® is a visual intelligence analysis environment that can optimize the value of massive amounts of information collected by government agencies and businesses.
- With an intuitive and contextual design it allows analysts to quickly collate, analyze and visualize data from disparate sources while reducing the time required to discover key information in complex data.
- Link to IBM i2 Analyst Notebook: http://www-03.ibm.com/software/products/en/analysts-notebook



ADDITIONAL INFO SEAMAN'S PAPER

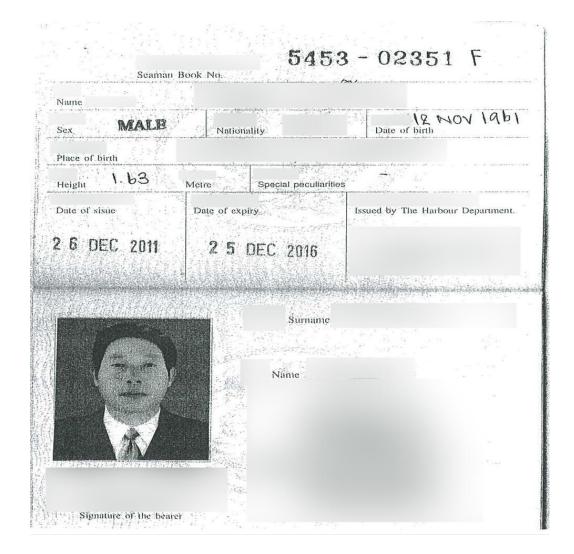


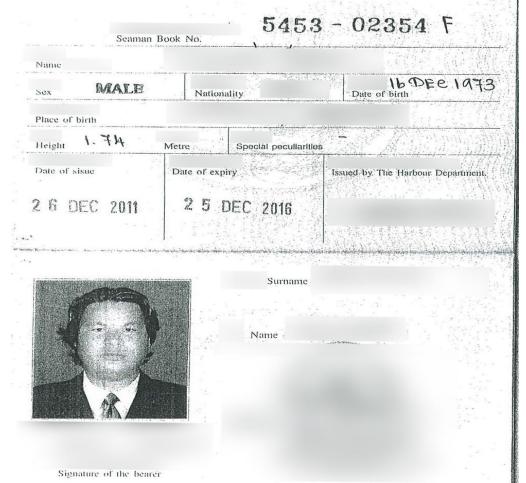






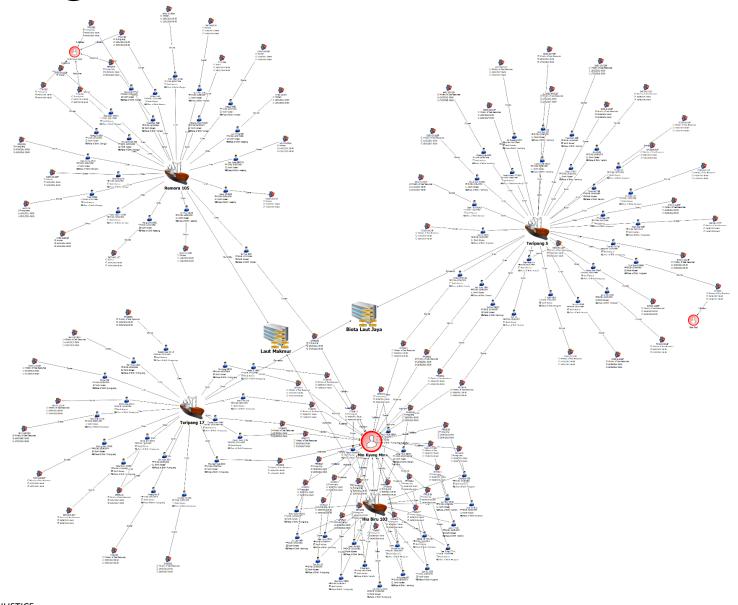
ADDITIONAL INFO SEAMAN'S PAPER







Trafficking in Persons at Sea (1)

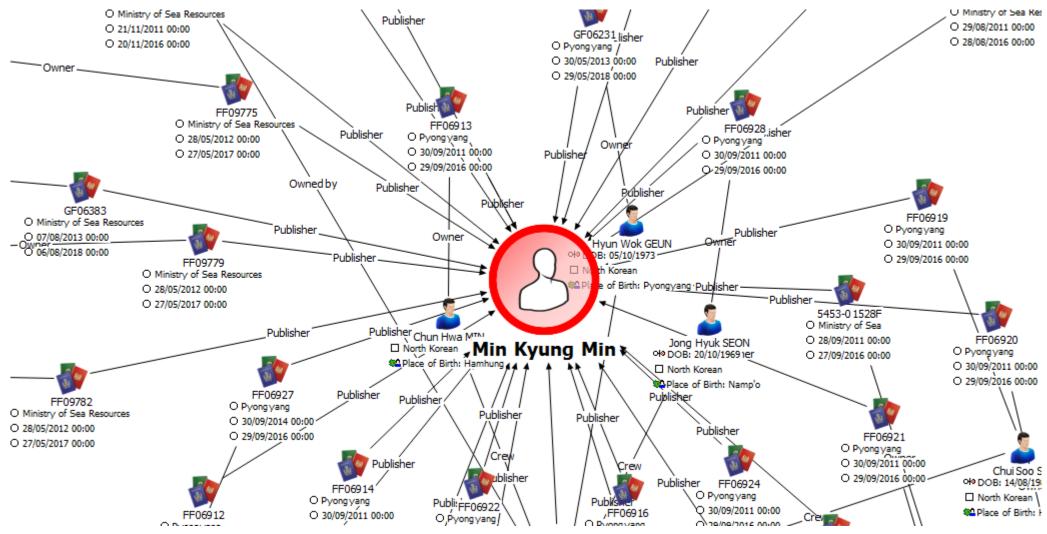








Trafficking in Persons at Sea (2)

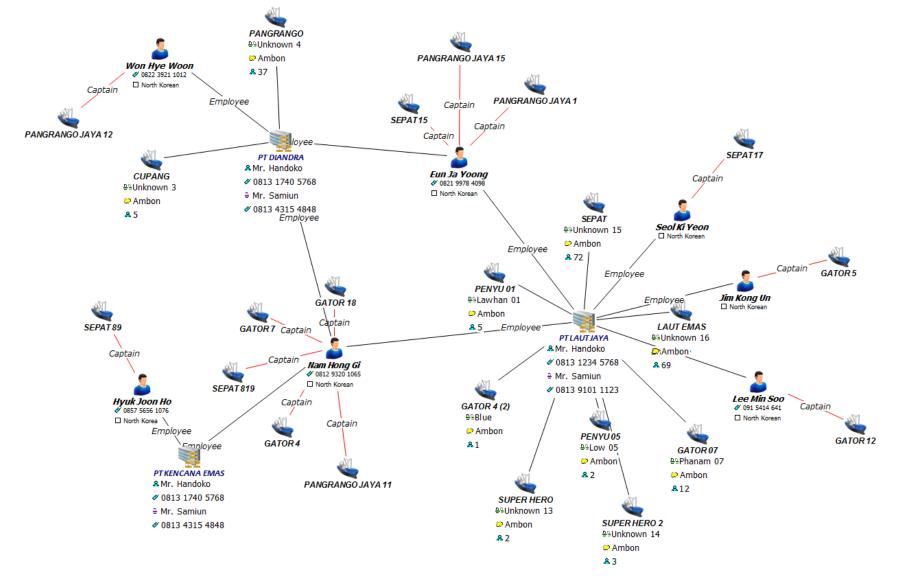








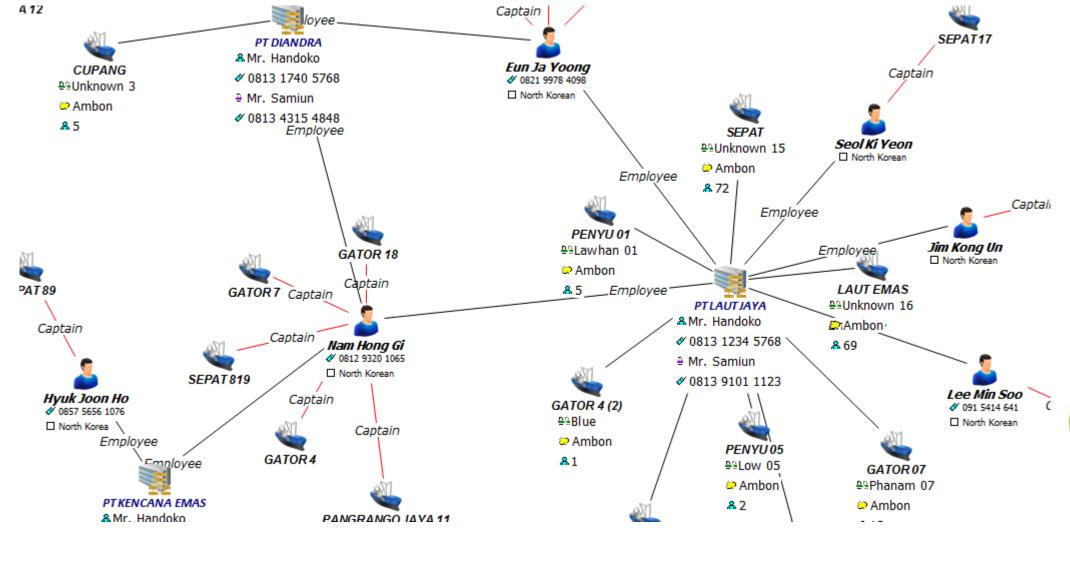
Companies, Captains and Boats (1)



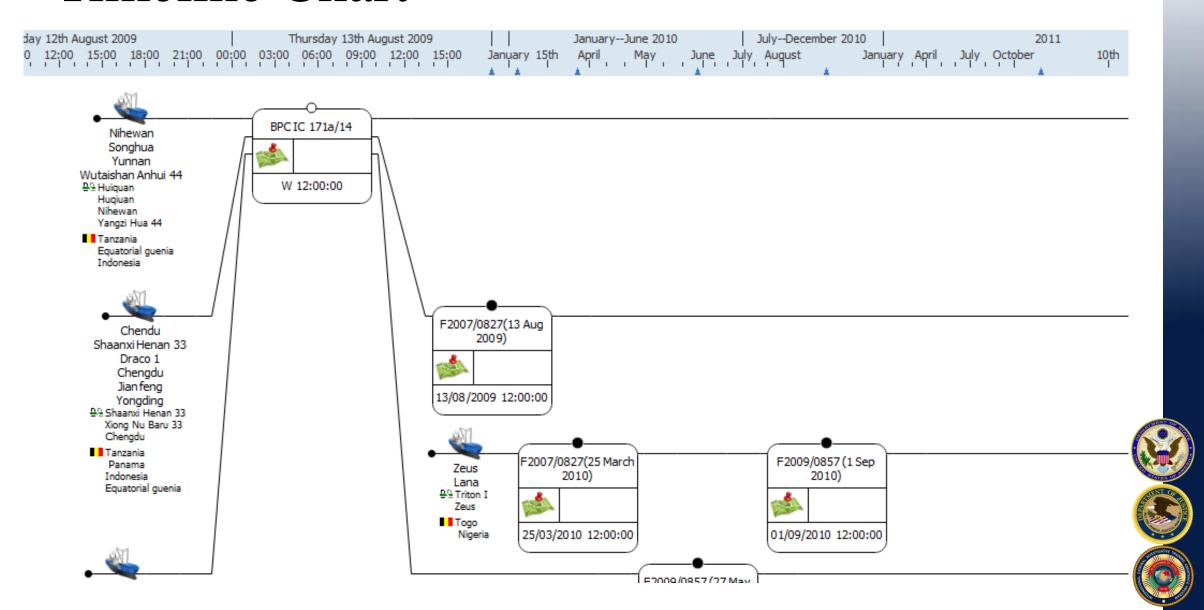




Companies, Captains and Boats (2)

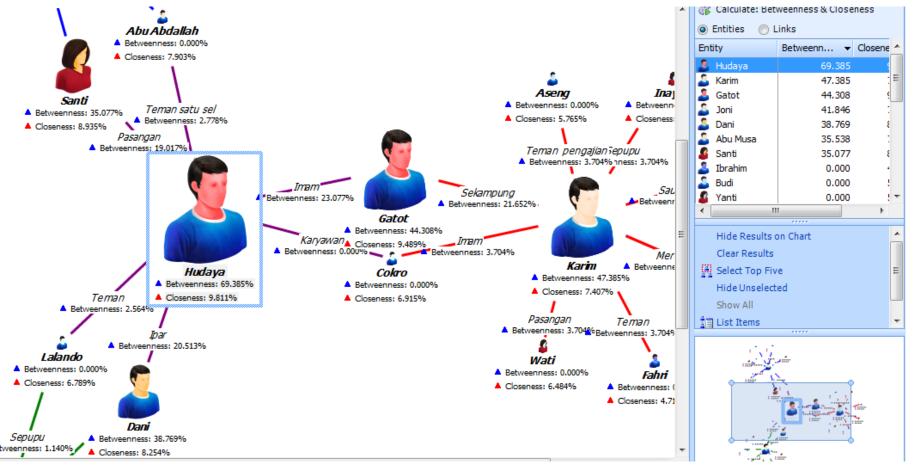


Timeline Chart



Social Network Analysis

Calculate: Betweeness & Closeness

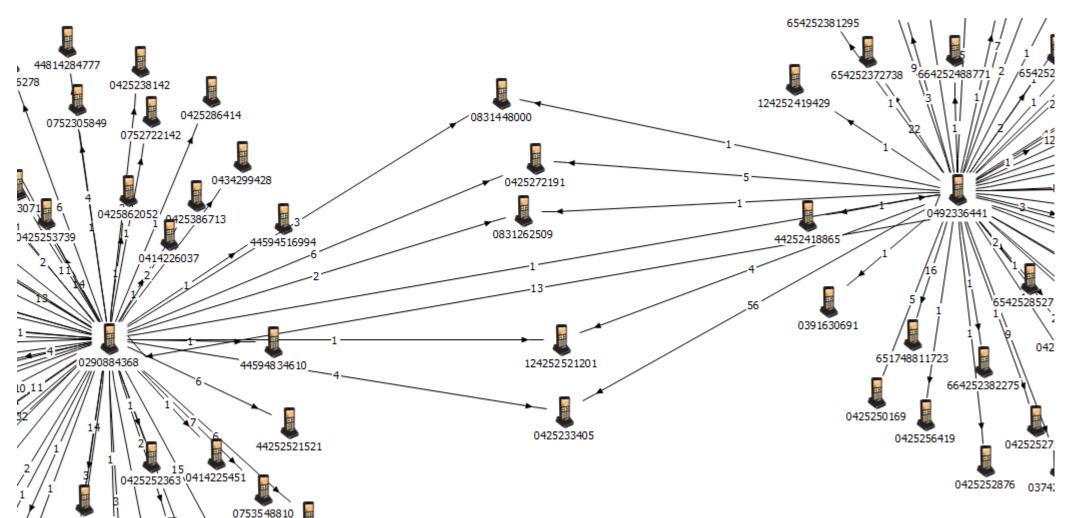








Importing Call Data Record (Phone Calls)

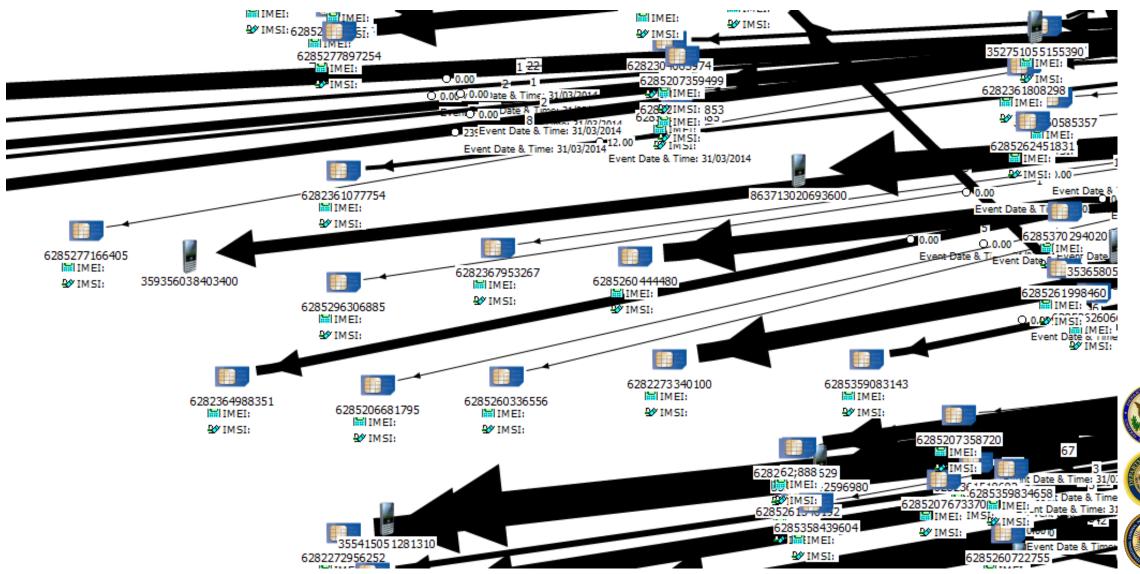








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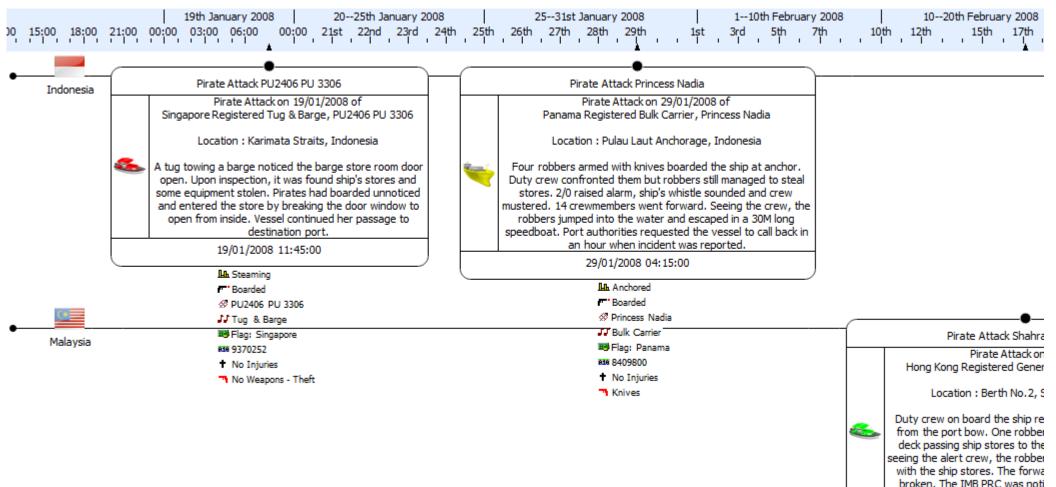


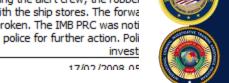






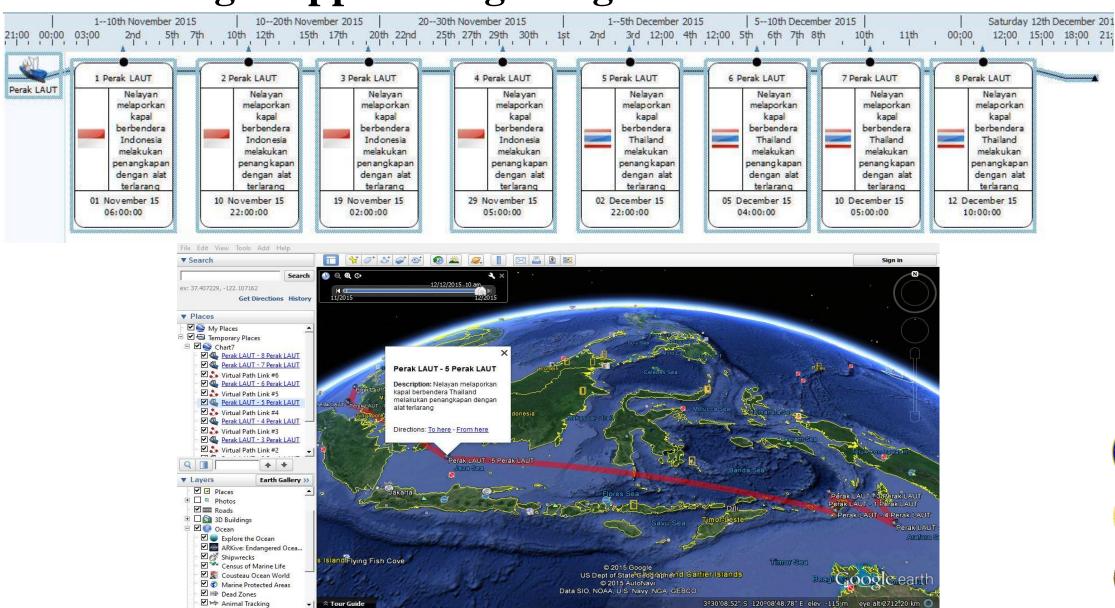
Piracy in Southeast Asia



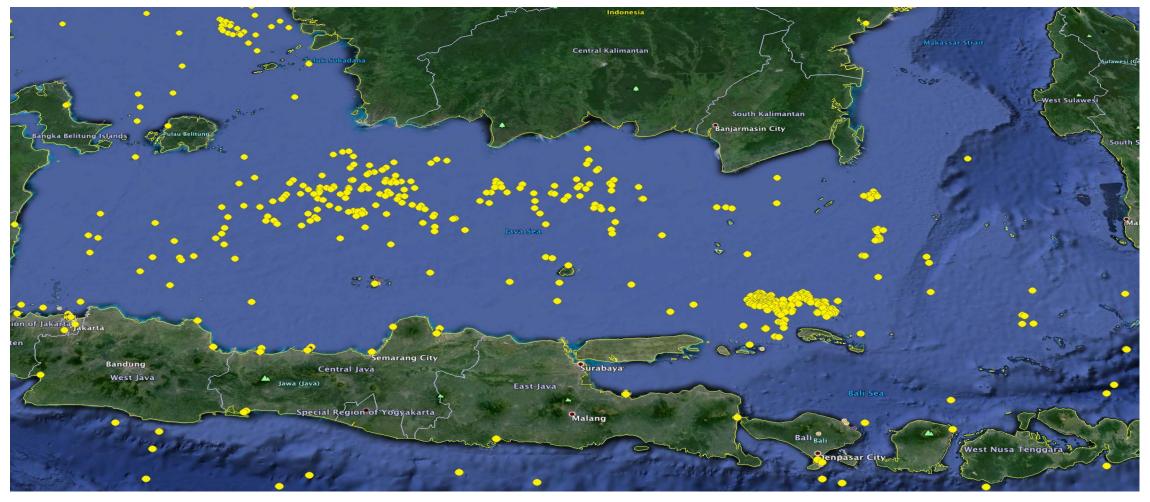


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IUU Fishing Mapped using Google Earth



KKP VMS DATA



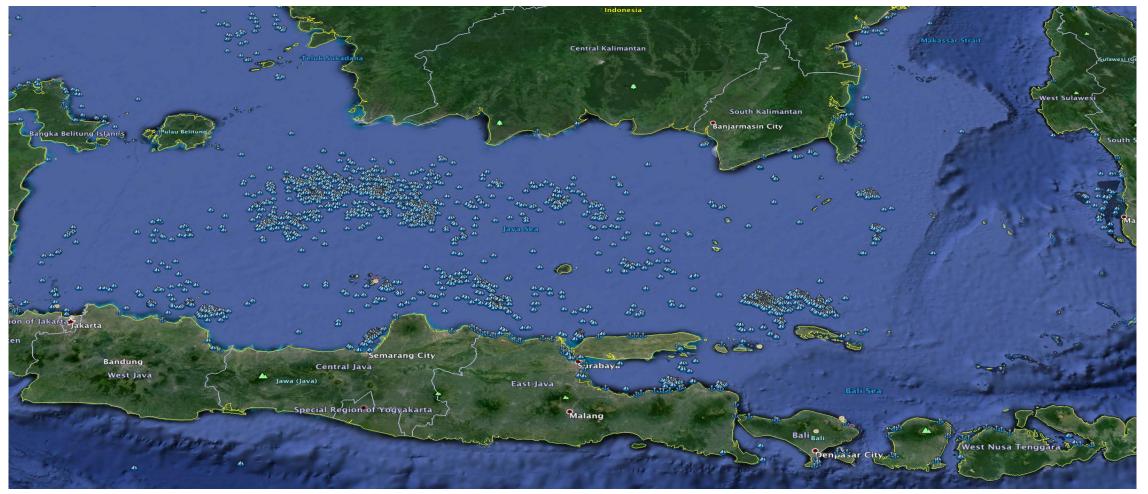






NOAA VIIRS DATA

Visible Infrared Imaging Radiometer Suite

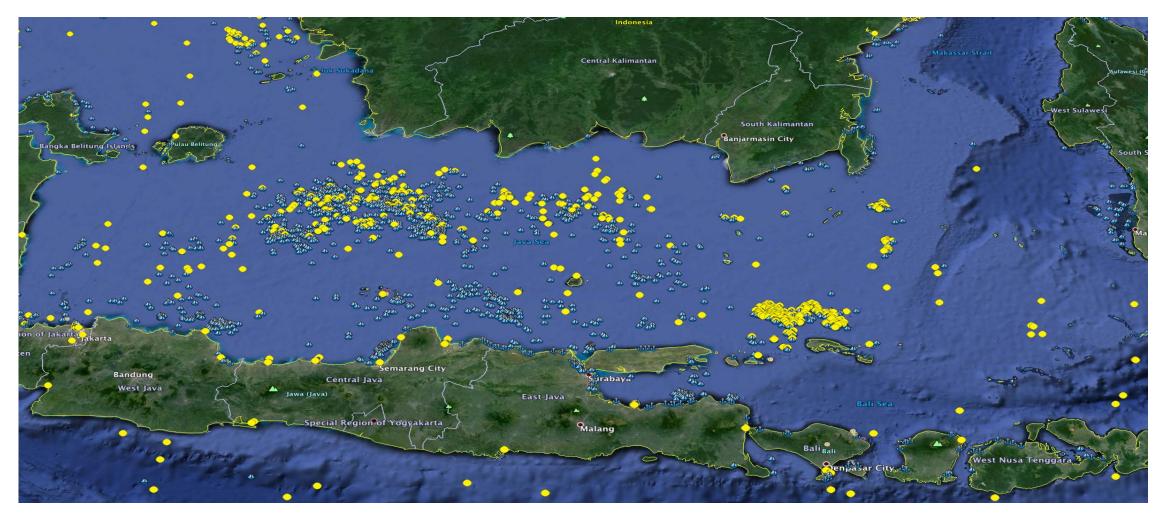








VMS AND VIIRS COMBINED DATA

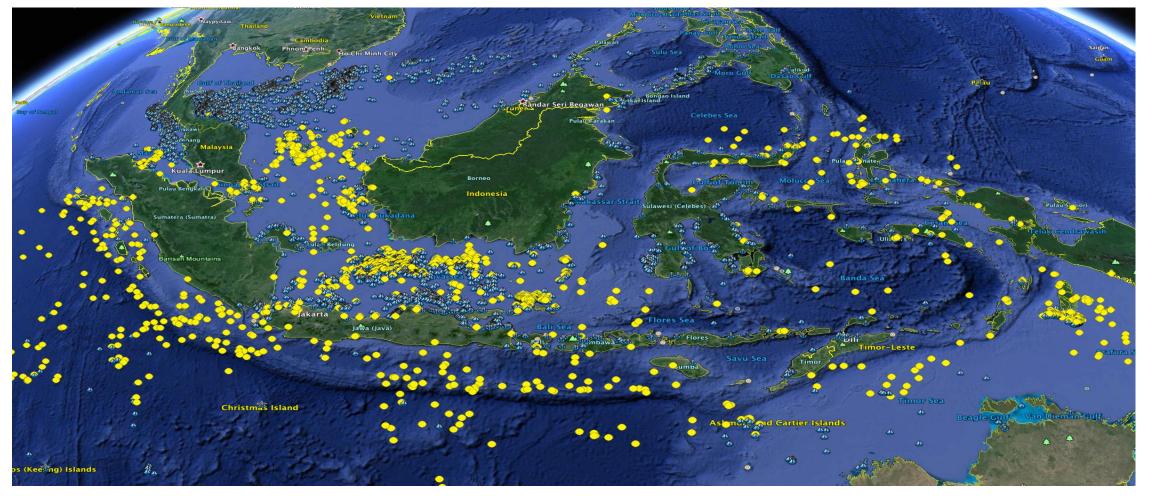








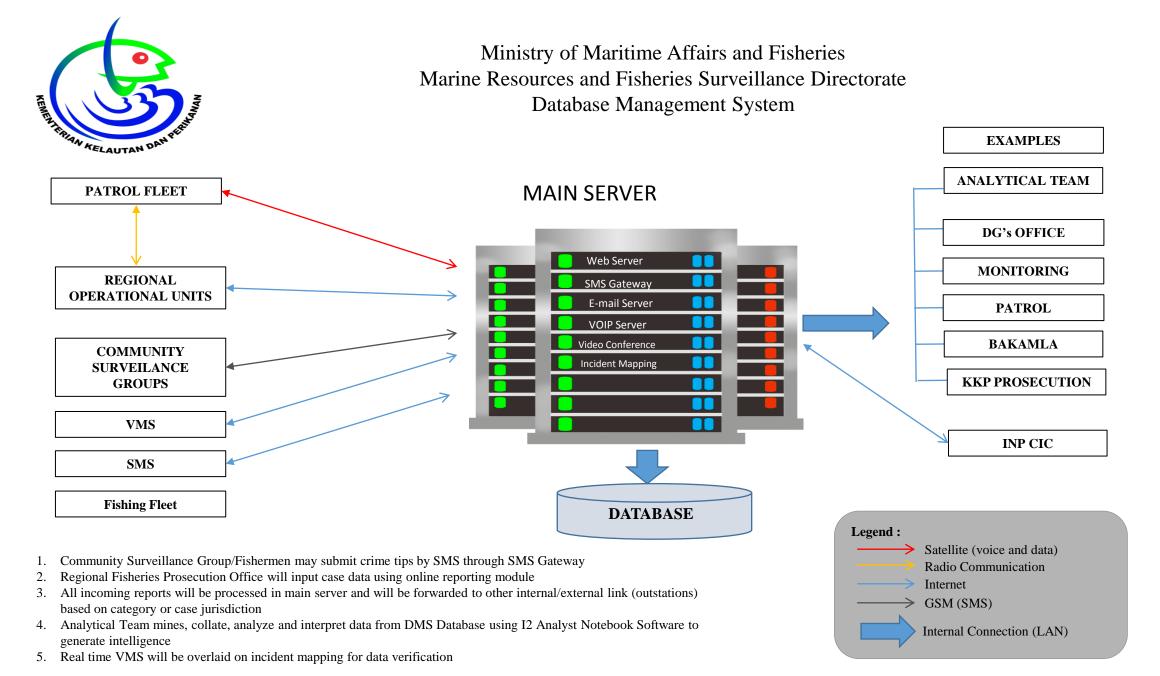
VMS AND VIIRS COMBINED DATA















KKP SMS Gateway

