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ANALYTICAL
CELL



C4ADS



C4ADS- BENEFICIAL OWNERSHIP AND NETWORK ANALYSIS

SEAFDEC March 2026



Funded by / Financé par :



Fisheries and Oceans
Canada

Pêches et Océans
Canada

C4ADS

**OUR MISSION IS TO
SUPPORT GLOBAL
EFFORTS TO DETECT,
DISRUPT AND DEFEAT
ILLCIT NETWORKS.**

Powered by cutting-edge data science, innovative technology applications, and evidence-driven analysis, we work to coordinate effective global solutions to the illicit networks that drive **conflict, instability, environmental crime, and human rights abuses** around the world.

WILDLIFE & NATURAL RESOURCE SECURITY

Advance the **sustainable use of natural resources and the protection of wildlife** by exposing where illicit activity enters supply chains, identifying the networks that enable it, and building frontline capacity to disrupt it.



WILDLIFE
CRIMES



IUU
FISHING



ILLEGAL
LOGGING



ILLEGAL
MINING

IUU FISHING PORTFOLIO

Targeting the Full System
to Counter IUU Fishing



COUNTERING IUU FISHING: C4ADS APPROACH

Targeting the owners, enablers, and systems that make IUU fishing profitable



Vessel-Level Analysis

- Identify vessel movements via AIS and satellite analysis
- Uncover evidence of IUUF or forced labor



Fleets Connected through Ownership

- Reveal fleet connections and beneficiaries of illicit activity by analyzing ownership networks.
- Disrupt financial flows that control large fleets



TRITON



Network of On and Off-shore Enablers

- Investigate port agents, oil tankers, refrigerated cargo vessel, insurance agencies etc.
- Reveal cross jurisdictional commercial and ownership connections between fishing fleet and its enablers

THE IMPORTANCE OF BENEFICIAL OWNERSHIP

Ultimate Beneficial Owner (UBO) is a term used to describe the person or people who ultimately control or own a company



Network Analysis

Identify companies and people associated with vessels of interest.



Identifying Risks Within Fleets

Examine fleets as a whole and other associated risks or behavior of the fleet



Accountability

Identify those responsible or benefiting from illicit activity

STEP 3

Identify first-level ownership and management entities

STEP 4

Identify second-level ownership and management entities

STEP 5

Identify the ultimate beneficial owners

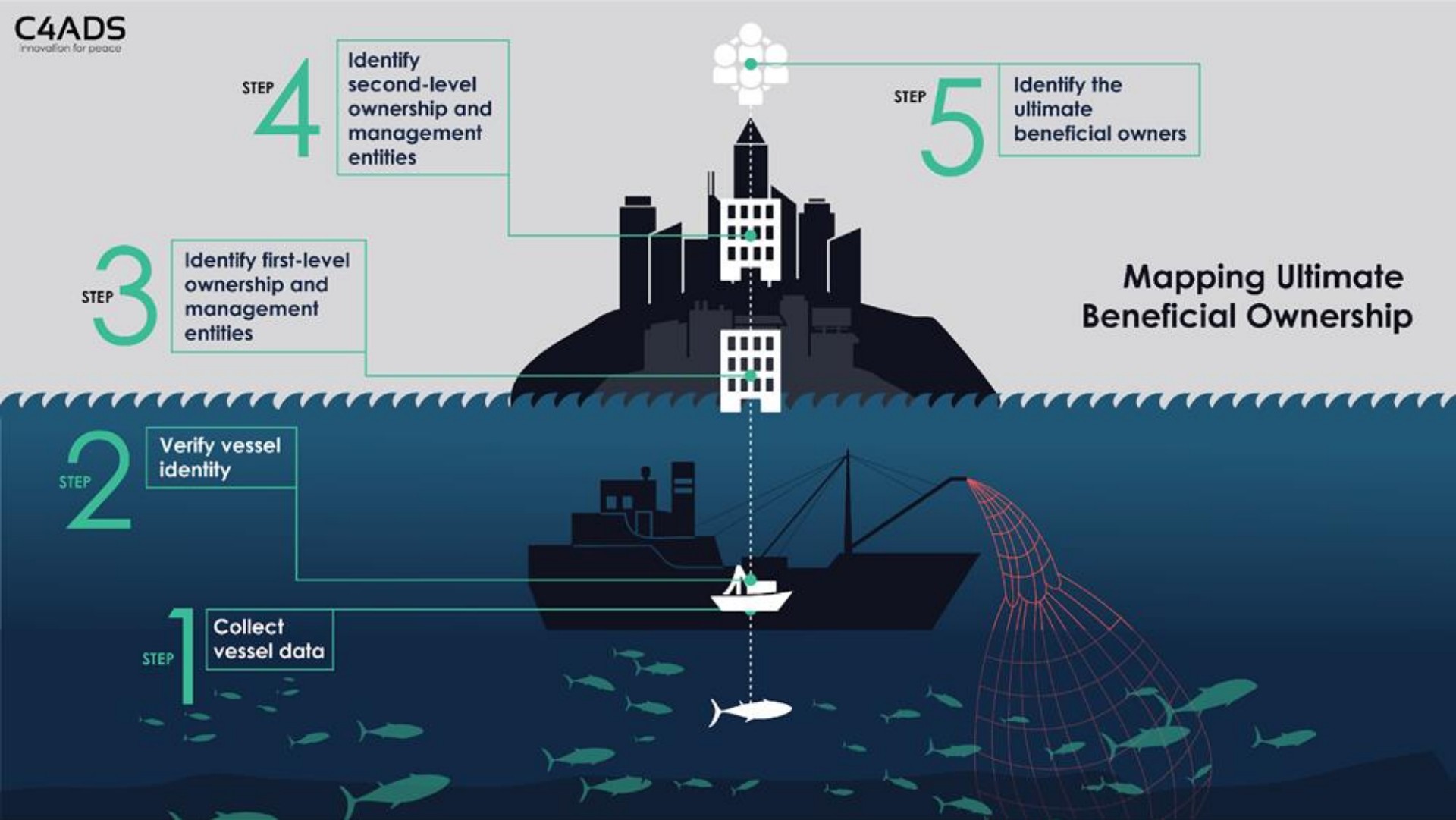
STEP 2

Verify vessel identity

STEP 1

Collect vessel data

Mapping Ultimate Beneficial Ownership



CASE STUDY: PINGTAN MARINE ENTERPRISE

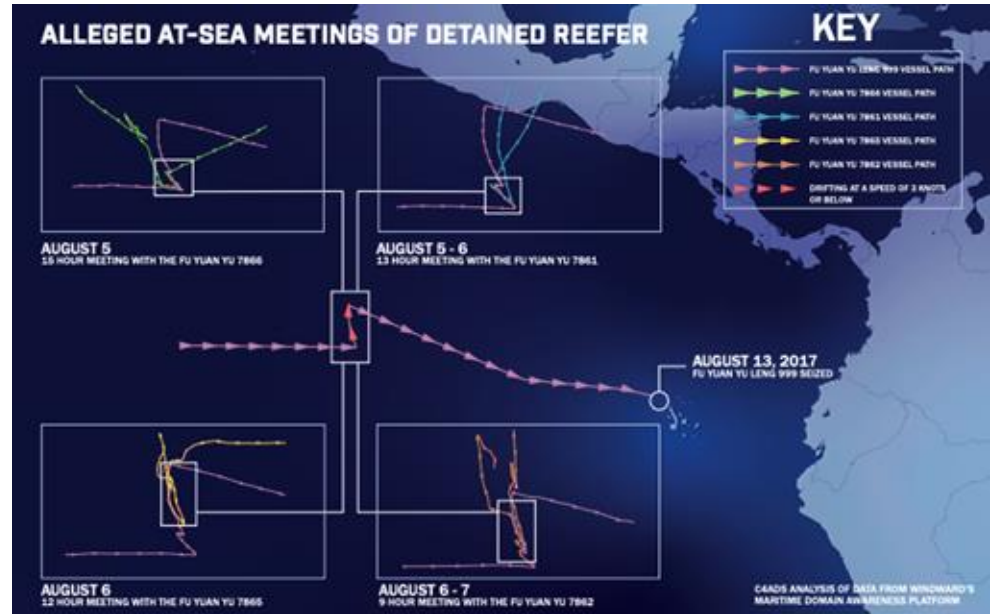
CHINA-FLAGGED REEFER DETAINED: THE EVENT

On August 13th 2017, the Fu Yuan Yu Leng 999 was detained in the Galapagos Islands with over 300 tons of catch and 6,600 sharks, including newborn sharks, shark fins, and CITES-protected hammerheads

August 5 - August 6, the Fu Yuan Yu Leng 999 met with **four fishing vessels** before being detained in the Galapagos Maritime Sanctuary on August 13th, 2017.



The Fu Yuan Yu Leng 999, owned and operated by Honglong Ocean Fishing Co. Ltd.

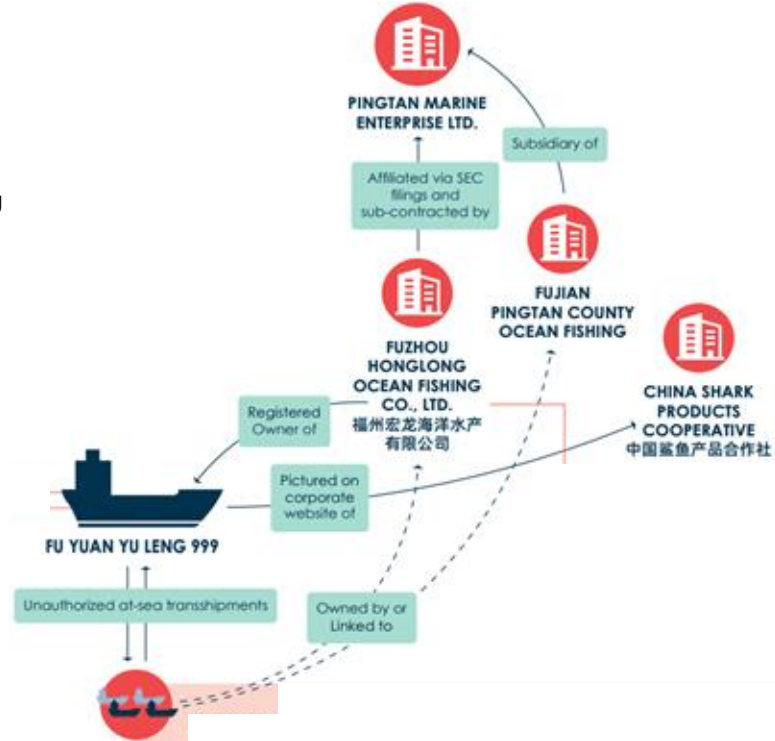


CHINA-FLAGGED REEFER DETAINED: THE VESSEL

We first identified associated vessels, registered owners, subsidiaries, and shareholders.

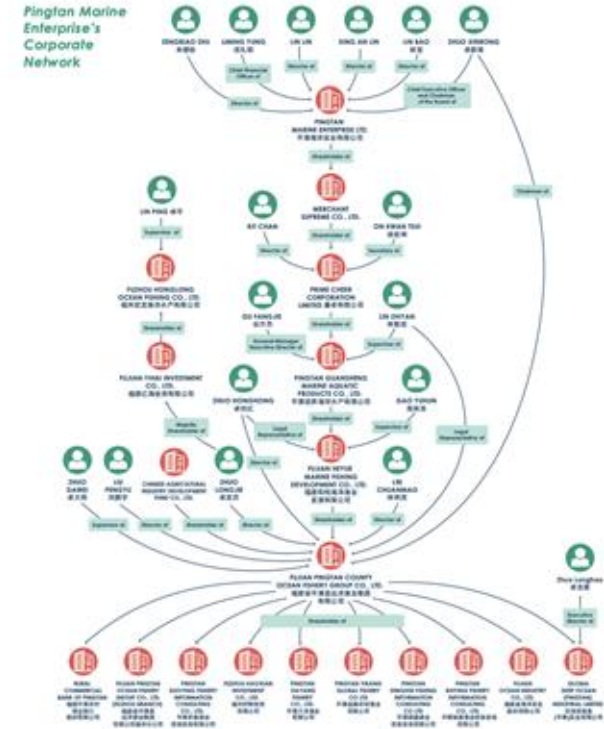
VESSEL IDENTIFICATION & FLEET BUILDOUT

- Vessel Registries (RFMO vessel authorization lists Global Fishing Watch)
- Vessel Authorizations and vessel licenses
- PME's official website
- Maritime Intelligence Platforms (IHS Markit / Equasis)
- Corporate registries (China, Hong Kong, and Indonesia, BVI)
- Stock exchange filings
- Chinese Ministry of Commerce overseas investment data (MOFCOM)



CHINA-FLAGGED REEFER DETAINED: THE OUTCOME

- PME has a **proven history of IUU fishing**, with grave implications for vulnerable coastal countries like Indonesia, Timor-Leste, and Ecuador.
- PME is comprised of a broader corporate network of subsidiary and linked companies in mainland China, Hong Kong, and Indonesia..
- C4ADS identified **fourteen forced labor incidents**, involving over 80 fishermen, onboard the company's vessels. Each of these incidents fell into one of two overlapping categories: 1) forced labor and exploitation, or 2) severe injury and death.
- PME is linked to and completely dependent on the Chinese state through subsidies, partial ownership, loans, and political affiliations amongst its directorship.



By May 9,
2023

1st ever designation of
a Chinese fishing
company

1st ever SEC de-listing of a
PRC domiciled company
in the USA

METHODS AND LIMITATIONS

VESSEL OWNERSHIP RELATIONSHIPS

Global Fishing Watch

Fu Yuan Yu 7814

REGISTRY SOURCES: IMO, NPPC, SPRFMO

DATES: Oct 5, 2019 - Nov 30, 2023

NAME: Fu Yuan Yu 7814

FLAG: China

MMSI: 412440737

IMO: 8896335

CALL SIGN: BZU1U

GEAR TYPES: LENGTH: GROSS TONNAGE:

OWNER: Fujian Pingtan County Ocean (China) Oct 5, 2019 - Nov 30, 2023

AUTHORIZATION: NPPC Nov 4, 2019 - Dec 1, 2023 SPRFMO Nov 18, 2019 - Dec 1, 2023

SUMMARY | AREA | RELATED VESSELS

Global Fishing Watch

Home My Equasis About Equasis Statistics

FU YUAN YU 7814 - IMO n° 8896335

(China People's Republic)

Call Sign: BZU1U

Gross tonnage: 1227

Type of ship: Fishing Vessel

Year of build: 2019

Status: In Service/Commission

Learn details of this portfolio 12832028

Ship info | Inspections (0) | Ship History

Overview

Flag performance

Flag history

Management detail

IMO number	Role	Name of company	Address	Date of effect	Details
8896335	IMO Manager	UMRCHINA		since 06/03/2019	
4228151	Ship manager/Commercial manager	FUJIAN PINGTAN COUNTY OCEAN	Beijing, China	since 20/09/2019	
4228151	Registered owner	FUJIAN PINGTAN COUNTY OCEAN	Beijing, China	since 20/09/2019	

Equasis: Vessel level management info

Home My Equasis About Equasis Statistics

FUJIAN PINGTAN COUNTY OCEAN - IMO n° 4228151

Address: Beijing, China

Status: Active

Learn details 12832028

Company info | Fleet info

Fleet

IMO	Ship's name	Gross tonnage	Ship's size	Year of build	Current flag	Current (Overdue)	Deliveries in last 3 years for all companies for this company (letting in for manager)	Deliveries in last 3 years for all companies (including their own)	Active as (Ship)	Details
8896335	FU YUAN YU 7814	1227	Fishing vessel	2019	China People's Republic				Registered owner (since 19/12/2019)	Ship manager/Commercial manager (since 19/12/2019)
8896335	FU YUAN YU 7814	1227	Fishing vessel	2019	China People's Republic				Registered owner (since 19/12/2019)	Ship manager/Commercial manager (since 19/12/2019)
8896335	FU YUAN YU 7814	1227	Fishing vessel	2019	China People's Republic				Registered owner (since 19/12/2019)	Ship manager/Commercial manager (since 19/12/2019)

Company fleet information

CORPORATE DATA SOURCES

opencorporates



Below is a collection of public data sources compiled by our researchers that are the most useful for investigative reporting. This page information is publicly available and can be updated. If you find errors or would like to suggest more sources to add to our ever growing library please contact us.

Please select one of the following filters to limit the results.

All Regions: Australia All Types

AUSTRALIA — 5

AUSTRALIAN BUSINESS REGISTER

ABN Lookup is the public view of the Australian Business Register (ABR). It provides access to publicly available information supplied by businesses when they register for an Australian Business Number (ABN). You can search:

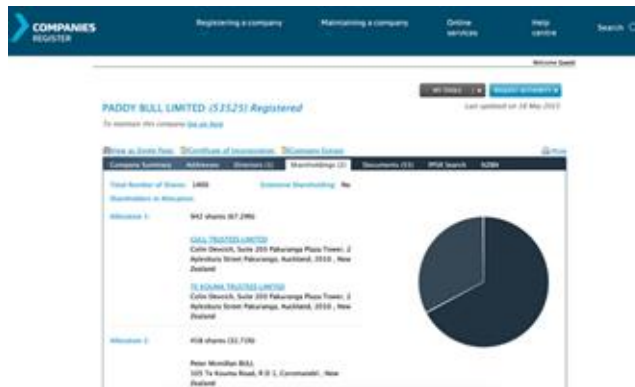
AUSTRALIAN SECURITIES AND INVESTMENTS COMMISSION

The Australian government's business registry. Within the ASIC register, you can look for documents, organization and business names, banned and disqualified searches, business name

IP AUSTRALIA DEPARTMENT OF INDUSTRY

The Australian Government's eServices page for Industrial Property Australia is a secure, reliable and convenient registry which gives access a range of IP Australia's transactions and services.

- [CATALOGUE OF RESEARCH DATABASES](#)
- [Opencorporates](#)



New Zealand

CÔNG TY CỔ PHẦN VIETPAN

(VIETPAN CORPORATION)

- Địa chỉ: số 187, đường Phúc Diễn, Phường Xuân Phương, Quận Nam Từ Liêm, Thành phố Hà Nội (Tìm vị trí)
- Mã số thuế: 0107144935
- Người ĐDPL: Nguyễn NHÂM HIẾU
- Ngày hoạt động: 30/11/2015
- Giấy phép kinh doanh: 0107144935
- Lĩnh vực: Bán buôn thiết bị và linh kiện điện tử, viễn thông
- Chi nhánh: Xem danh sách

Ngành nghề kinh doanh của Công Ty Cổ Phần Vietpan

Mã ngành	Mô tả	Ngành chính
4652	Bán buôn thiết bị và linh kiện điện tử, viễn thông	Y
2100	Sản xuất thuốc, hoá dược và dược liệu	N
0113	Trồng cây lấy củ có chất bột	N
0115	Trồng cây thuốc lá, thuốc lào	N
0116	Trồng cây lấy sợi	N

Vietnam

LIMITATIONS

Corporate records are not always easily available and vary in required information.

Secrecy

In some jurisdictions, corporate records are not made public or are only partially public.

Non-digitization

In some jurisdictions, corporate records are publicly available, but only by actual individuals arriving on site, limiting utility.

Scarcity

In some jurisdictions, corporate records are simply not available or not available to the public in a reasonably accessible manner.

Lack of common standards

Individual jurisdictions may offer excellent access, but without common global standards, it is tough to get a true picture of ownership.

LIMITATIONS

Three significant limitations preventing full visibility into onshore ownership networks.



Data Variance

No universally agreed upon definition or standard for ownership reporting.

This hinders wide scale ownership mapping and allows owners to exploit gaps to disguise their activities.



Data Accessibility

Onshore ownership information is not readily accessible and **requires combining data from multiple sources, creating a high analytical burden,** particularly for under-resourced fishing enforcement agencies.



Regulatory Loopholes

Gaps in reporting requirements **allow owners to conceal their histories and mask foreign investment.** This makes identifying true owners more difficult.

TRITON WALKTHROUGH



A platform for regulators, enforcement, and civil society to explore beneficial ownership data behind the world's industrial fishing fleet



Search through ~180,000 entities industrial fishing vessels, companies, and individuals



Identify the vessel, companies and individuals within a network



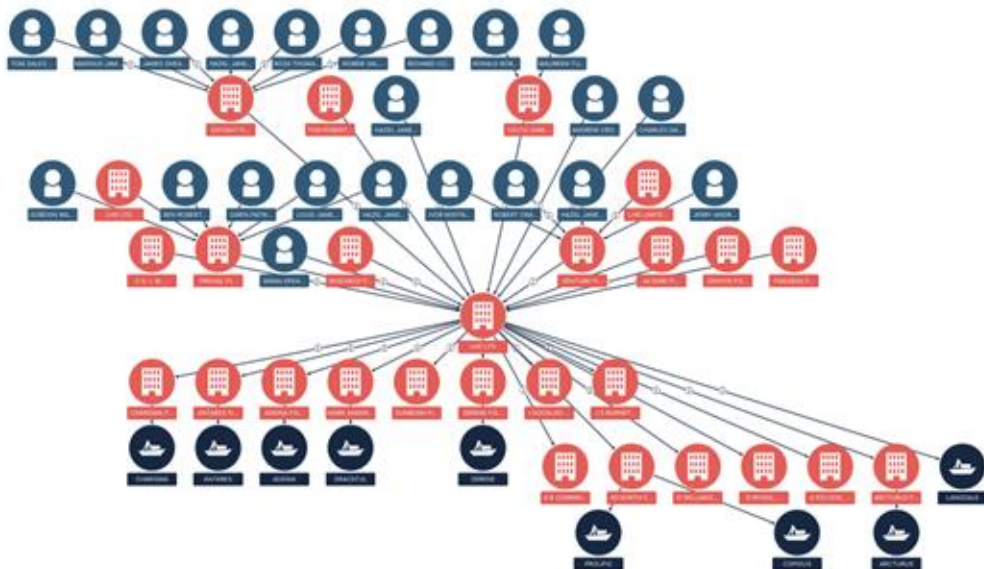
Narrow searches based on compliance, registration, and geography



Download network entity identifiers



Partner with the JAC / C4ADS for in depth information and additional analytical support



COUNTER IUU WITH PUBLICLY AVAILABLE INFORMATION

Publicly Available Information

Verticals

Each data vertical can have thousands of subordinate sources that piece together a comprehensive investigation



Surface Web
What is out there?



Corporate Records
Who owns what?



Trade Data
What is a company doing?



Transport Data
What is going where?

Procurement Records
What is being purchased?



Judicial Registries
What is being said?



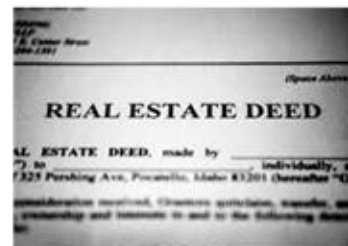
Biographical Data
How can you verify identity?



Location Data
Where are devices?



Social Media
What is going where?



Property Records
Who owns property?

General Guidelines

When conducting investigations, good evidentiary standards are crucial to the credibility of your conclusions.

(Some of) C4ADS's Analytical Standards:

- Stay objective and non-partisan
- Explain uncertainties
- Identify assumptions
- Explain changes
- Understand your sources



Stay skeptical!



Keep track of your process!



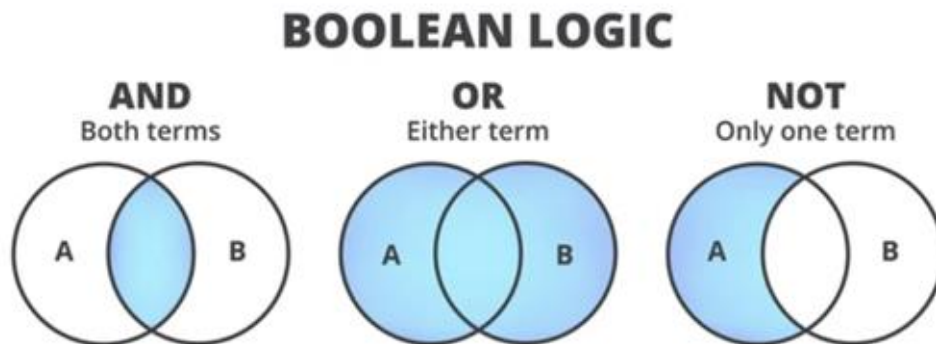
Cite your sources!

Why Bother with Searches?

- The Google Search index contains hundreds of billions of web pages and is well over 100,000,000 gigabytes in size. The same is true for other search engines!
- Making this data useful means giving your search engine the clearest instructions possible as to what you are looking for, ensuring you have the best chance of finding your answers in a more limited set of results

Boolean Searches

Boolean terms are ways to specify to Google which phrases or words in your search are most important and how they relate to each other.



No Boolean Operators - 3 Million Results

The screenshot shows a Google search for "ivory seizure". The search bar contains the text "ivory seizure" and a microphone icon. To the right of the search bar is a "Sign in" button. Below the search bar are navigation tabs for "All", "News", "Images", "Shopping", "Videos", "More", "Settings", and "Tools". The search results are displayed below the tabs, showing "About 3,360,000 results (0.39 seconds)".

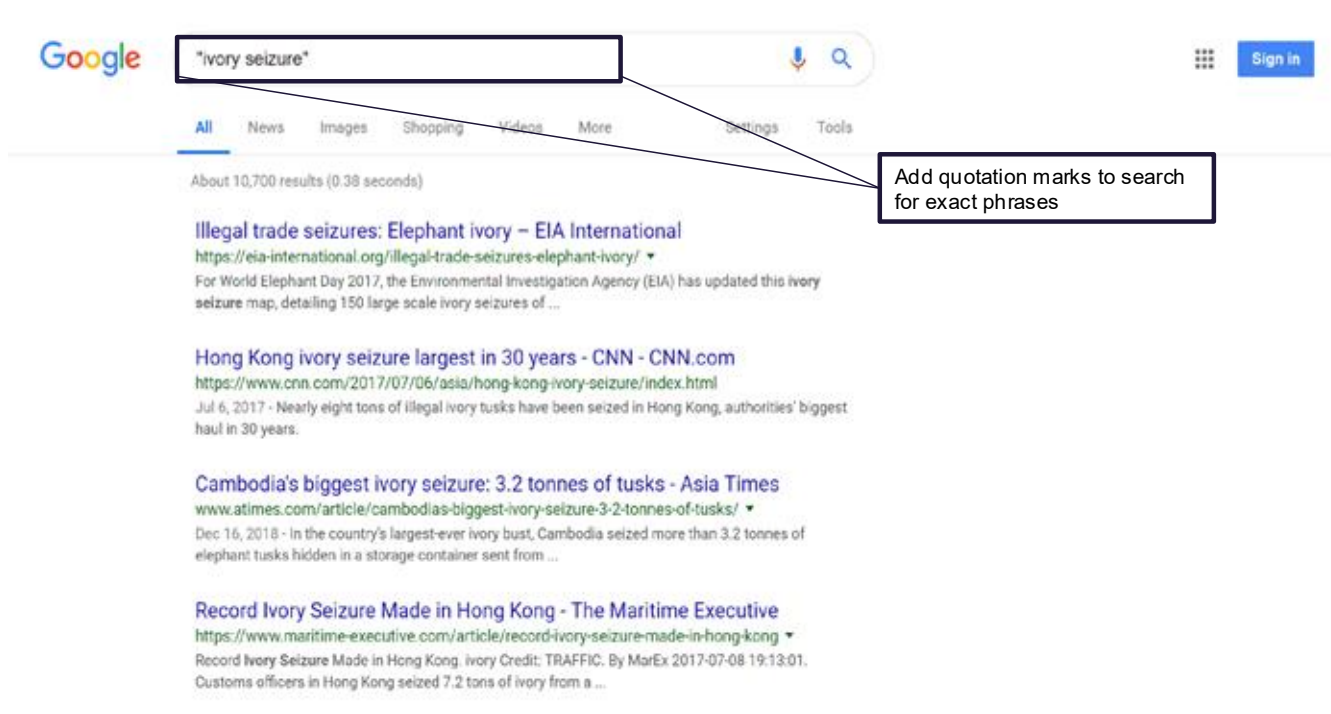
The first result is titled "Illegal trade seizures: Elephant ivory – EIA International" with the URL <https://eia-international.org/illegal-trade-seizures-ivory/>. The snippet reads: "For World Elephant Day 2017, the Environmental Investigation Agency (EIA) has updated this ivory seizure map, detailing 150 large scale ivory seizures of ...".

The second result is titled "Cambodia's biggest ivory seizure: 3.2 tonnes of tusks - Asia Times" with the URL www.atimes.com/article/cambodias-biggest-ivory-seizure-3-2-tonnes-of-tusks/. The snippet reads: "Dec 16, 2018 - In the country's largest-ever ivory bust, Cambodia seized more than 3.2 tonnes of elephant tusks hidden in a storage container sent from ...".

The third result is titled "Genetic assignment of large seizures of elephant ivory reveals Africa's ..." with the URL science.sciencemag.org/content/349/6243/84. The snippet reads: "by SK Wasser - 2015 - Cited by 86 - Related articles We genetically assign origin to 28 large ivory seizures (≥0.5 metric tons) made between 1996 and 2014, also testing assignment accuracy. Results suggest that ...".

The fourth result is titled "DNA testing of illegal ivory seized by law enforcement links multiple ..." with the URL <https://www.washington.edu/news/2018/09/19/ivory-smuggling-dna-testing/>. The snippet reads: "Sep 19, 2018 - The international trade in elephant ivory has been illegal since 1989, yet African elephant numbers continue to decline. In 2016, the ...".

“”: Exact Phrase Match



The image shows a Google search interface. The search bar contains the text "ivory seizure" enclosed in quotation marks. A callout box with a black border and white background points to the search bar, containing the text: "Add quotation marks to search for exact phrases". Below the search bar, the search results are displayed, showing several articles related to ivory seizures, such as "Illegal trade seizures: Elephant ivory – EIA International", "Hong Kong ivory seizure largest in 30 years - CNN - CNN.com", "Cambodia's biggest ivory seizure: 3.2 tonnes of tusks - Asia Times", and "Record Ivory Seizure Made in Hong Kong - The Maritime Executive".

AND: Must Include Both Words

The screenshot shows a Google search for "ivory AND seizure". The search bar contains the text "ivory AND seizure". Below the search bar, the results are displayed. The first result is "DNA testing of illegal ivory seized by law enforcement links multiple ..." from Washington University. The second result is "Cambodia's biggest ivory seizure: 3.2 tonnes of tusks - Asia Times" from Asia Times. The third result is "CITES: African elephant poaching down, ivory seizures up and hit ..." from CITES. The fourth result is "Illegal trade seizures: Elephant ivory in Europe - EIA International" from EIA International. A callout box on the right side of the image explains the use of the AND operator in Boolean searching.

Google

ivory AND seizure

All Shopping Images News Videos More Settings Tools

About 3,530,000 results (0.38 seconds)

DNA testing of illegal ivory seized by law enforcement links multiple ...
<https://www.washington.edu/news/2018/09/19/ivory-smuggling-dna-testing/>
 Sep 19, 2018 - The international trade in elephant ivory has been illegal since 1969, yet ... Tusks from an ivory seizure in 2015 in Singapore after they have ...

Cambodia's biggest ivory seizure: 3.2 tonnes of tusks - Asia Times
www.atimes.com/article/cambodias-biggest-ivory-seizure-3-2-tonnes-of-tusks/
 Dec 16, 2018 - In the country's largest-ever ivory bust, Cambodia seized more than 3.2 tonnes of elephant tusks hidden in a storage container sent from ...

CITES: African elephant poaching down, ivory seizures up and hit ...
https://cites.org/.../African_elephant_poaching_down_ivory_seizures_up_and_hit_rec...
 Oct 24, 2017 - CITES: African elephant poaching down, ivory seizures up and hit record high. Overall elephant poaching in Africa gradually declines for 5th ...

Illegal trade seizures: Elephant ivory in Europe - EIA International
<https://eia-international.org/Wildlife/Elephants>
 Dec 11, 2017 - Already leading the way are two of the world's largest ivory markets, the US and China. The US has adopted a near-total domestic ivory ban ...

Use operators to upgrade to Boolean searching

Common operators:
 AND to indicate both phrases must be in result
 OR to indicate either phrase must be in result

Search By Site

A full list of the 52 Google search operators is available [HERE](#).

Google

ivory seizure site:nationalgeographic.com

Sign in

All News Images Shopping Videos More Settings Tools

About 156 results (0.29 seconds)

Seized Ivory May Have Come From as Many as 140 Poached Elephants
<https://news.nationalgeographic.com/.../wildlife-ivory-tanzania-poached-elephants-cri...>
 Jul 17, 2016 - Tanzanian authorities announced on Monday that they had seized 1.4 tons of elephant tusks and arrested a group of major international ivory ...

Does Destroying Ivory Save Elephants? Experts Weigh In
<https://news.nationalgeographic.com/.../wildlife-watch-ivory-crush-elephant-poaching...>
 Aug 2, 2017 - More than a dozen nations, including China, France, and Kenya, which burned 105 tons last year, have also destroyed their confiscated ivory. ... But ethically, elephant ivory should have no material value, and elephant tusks should only be regarded as valuable on living elephants.

Illegal Ivory Almost All from Recent Killing, Study Finds – National ...
voices.nationalgeographic.com/.../illegal-ivory-almost-all-from-recent-killing-study-fi...
 Nov 9, 2016 - Researchers analyzing African elephant tusks seized by global law enforcement have confirmed what many suspect: the illegal ivory trade, ...

Togo Makes Second Record Ivory Seizure - National Geographic Blog
voices.nationalgeographic.com/2014/02/03/togo-makes-second-record-ivory-seizure/
 Feb 3, 2014 - Police in Togo say they have arrested three men after discovering nearly two tons of ivory in a container marked for shipping to Vietnam.

Search terms in specific sites by searching with site:www.xxxxxx.com

Search by Filetype

A full list of the 52 Google search operators is available [HERE](#).

The screenshot shows a Google search interface. The search bar contains the text "ivory seizure filetype:pdf". Below the search bar, the search results are displayed. The first result is titled "Genetic assignment of large seizures of elephant ivory ... - Science" and includes a PDF icon. The second result is titled "Ivory Bill: Factsheet – Illegal ivory seizures" and also includes a PDF icon. The third result is titled "Ivory Seizures in Europe - Amazon S3" and includes a PDF icon. The fourth result is titled "Ivory and elephant product seizure data collection form" and includes a PDF icon. A callout box points to the search bar with the text "Search terms in specific file types by searching with filetype:XXX".

Search terms in specific file types by searching with filetype:XXX


Searches Within Timeframe

A full list of the 52 Google search operators is available [HERE](#).


The screenshot shows a Google search for "Ivory seizure". The search results are filtered by time, with a dropdown menu open showing options: Any time, Past hour, Past 24 hours, Past week, Past month, Past year, and Custom range... (checked). A red arrow points from the "Custom range..." option to a "Custom date range" dialog box. This dialog box contains "From" and "To" date pickers set to 12/1/2018 and 12/10/2018 respectively, and a calendar for December 2018. The calendar shows the 10th of December highlighted.

SEIBU NETWORK ANALYSIS

SEIBU NETWORK



GREEN WORLD CO LTD ★

[View Network Graph](#)


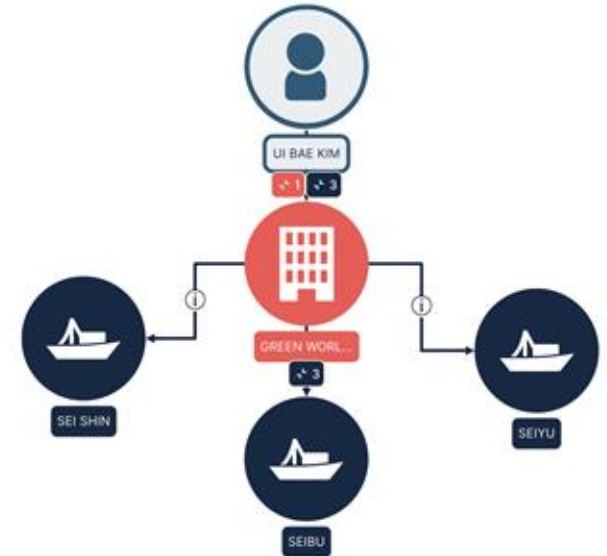
Company

Also Known As GREEN WORLD CO LTD	Phone Number +82 51 464 9494	Date of Information 2023-12-23	Address 8F, DONGWON BUILDING, 70 JUNGANG-DAERO, JUNG-GU, BUSAN, SOUTH KOREA
Country of Registration Korea, Republic of	Date of Incorporation 1995-06-29	Email Address GWSHIPPING@GREENWORLDCOMPA...	Former Names N/A
Tax or Registration ID 180111-0185420	Website HTTPS://WWW.GREENWORLDCOMPA...		

Connections 4

Membership • 4

Entity Type	Name	IUJ Status	Relationship
Person	UI BAE KIM	N/A	CEO OF
Vessel	SEIBU	N/A	OWNER OF
Vessel	SEIYU	N/A	OWNER OF
Vessel	SEI SHIN	N/A	OWNER OF



Google "GREEN WORLD CO LTD" AND Illegal

SEIBU NETWORK

Google

"GREEN WORLD CO LTD" AND Illegal



ZHEJIANG OCEAN FAMILY CO. LTD AND ITS FISHY BUSINESS

Illegal, unreported and unregulated (IUU) fishing and serious human rights abuses on vessels belonging to or associated with The Zhejiang Ocean Family Co. Ltd



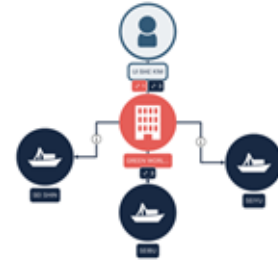
These images are taken from the vessel GUN 2002 (2) vessel



The photo provided by EP's source from GUN 2002 (2) shows the vessel's crew shipping with the carrier SEIBU (9484001). The stevedore is not found on the AIS data platform (Global Fishing Watch and ShipAdvisor) - potentially because one or both vessels did not have their AIS transponders switched on.



The photo provided by EP's source from GUN 2002 (2) shows the vessel's crew shipping with the carrier SEIBU (9484001). The stevedore is not found on the AIS data platform (Global Fishing Watch and ShipAdvisor) - potentially because one or both vessels did not have their AIS transponders switched on.



Carrier Name (IMO number)	Carrier flag (Current flag)	Owner/ operator of carrier (Owner Nationality)**	Encounters based on crew testimony and corroborated by AIS data	Encounters based on photographic evidence	Encounters only based on AIS data
SEIYU (9172909)	Korea	Green World Co Ltd (Korea)		XIN SHI II K	XIN SHI II D, XIN SHI II E, XIN SHI II I
SEIBU (9484001)	Korea	Green World Co Ltd (Korea)	XIN SHI II I	XIN SHI II L, XIN SHI II J	
SEIWA (9021277)	Korea (Bosnia)**	Green World Co Ltd (Korea)			XIN SHI II L, XIN SHI II J, XIN SHI II K
SEI SHEN (8840814)	Korea	Green World Co Ltd (Korea)			XIN SHI II F

About the Joint Analytical Cell:

The Joint Analytical Cell, or JAC, provides authorities with fisheries intelligence, data analysis and capacity building to help combat illegal, unreported and unregulated fishing. Founded by the International Monitoring, Control and Surveillance Network, Global Fishing Watch and TM-Tracking, the initiative harnesses innovative technology and the complementary expertise of its collaborating organizations to improve the effectiveness of fisheries monitoring, control and surveillance. By fostering cooperation among State and non-State partners, the JAC seeks to build insights and capacity that will help enhance fisheries management.

Contact: jac-coord@tm-tracking.org

www.imcsnet.org | www.globalfishingwatch.org | www.tm-tracking.org | www.skylight.global | www.c4ads.org