

C4ADS

innovation for peace



Learning Lab Catalog

Master the Cutting-Edge of PAI Analysis

The C4ADS Learning Lab provides a world-class, customizable training experience designed to help your teams master PAI analysis.

Looking to improve your understanding of illicit networks, protect global supply chains, or strengthen due diligence efforts within an ever-changing threat environment? We offer customized training programs on a suite of capabilities ranging from digital security basics and corporate records analysis to advanced PAI investigations and bulk data management and transformation.

Drawing from extensive experience training national security teams, financial compliance and due diligence units, and investigative journalists, The C4ADS Learning Lab offers tailored curricula that focus on developing tangible skills and scaling impact. Our goal is to help build more agile teams that have the confidence to apply innovative analytical approaches long after their time with us.

Core Learning Outcomes

After training with the Learning Lab, your teams will walk away with:



A strong foundational understanding of PAI analysis, including data origins, ethics, and proven methodologies.



The ability to securely and confidently navigate the PAI environment across multiple jurisdictions to improve risk calculations and decision making.



Seamless integration of acquired skills into daily workflows to enhance efficiency and effectiveness.

Tailored, Hands-On Training Program

Customizable curriculum for your organization.

Direct Collaboration with C4ADS Analysts

Real-world expertise at your fingertips.

Access to Unique Data & Software

Sustainable add-ons for training events.

Our Approach

C4ADS aspires to enable a network of mission-aligned partners capable of targeting and dismantling illicit activity wherever it may be. We know that we are stronger when we share, build, and grow with partners across every sector, from government and civil society to the private companies and financial institutions.

Our impact-focused approach is built from years of training and collaborating with global partners on our analytical methodologies, bespoke tools, and unique data. We provide actionable, modularized training for both small and large groups, in-person and in virtual environments, and even in different languages.

The C4ADS Learning Lab delivers a hands-on experience that prioritizes developing tangible skills. We help build more agile teams that have the confidence to apply innovative analytical approaches long after their time with us.

Tailor Your Training

Whether you are a compliance officer or an intelligence analyst, we can build a training program that combines functional and jurisdictional issue areas with hands-on learning activities.

Step 1: Needs Assessment

In advance of the training event, each attendee completes an online, anonymous assessment to inform our customized training curriculum tailored. Each assessment will evaluate the existing capabilities and competencies of the attendees.

Step 2: Pre-Training Materials

We will curate pre-training materials to be provided ahead of the training event so your team can go beyond foundational understanding and focus on building real-world and sustainable skills during the training.

Step 3: The Training Event

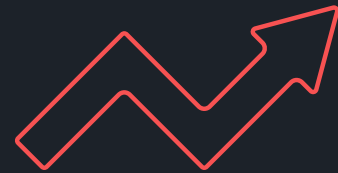
C4ADS experts will lead a customized, interactive training program. We offer in-person and virtual options, and will work with you to create an event that works best for your team's needs.

Step 4: Post-Training Evaluation

At the conclusion of the training event, partners may request a survey of attendees to evaluate their new skill levels and knowledge compared to the initial needs assessment.

Step 5: Ongoing Partnership

Your team will now be part of C4ADS' network of partners and our door will always be open to you for questions, data-sharing, collaborations, and more.



Scale Your Impact with C4ADS Data and Tools

C4ADS has one of the largest collections of PAI data in the world. As we develop the curriculum for your training experience, we can bundle your training package with access to raw or curated data and to our in-house software platforms, including:



Seamless Horizons

C4ADS' cornerstone investigative discovery platform built to cut through the noise of global data for advanced due diligence and illicit network analysis.



Arion

Premier toolkit for monitoring and countering North Korea's maritime sanctions evasion activities.



Triton

Database of fishing vessel ownership around the world which links vessels with the companies who own them.



Icarus Flights

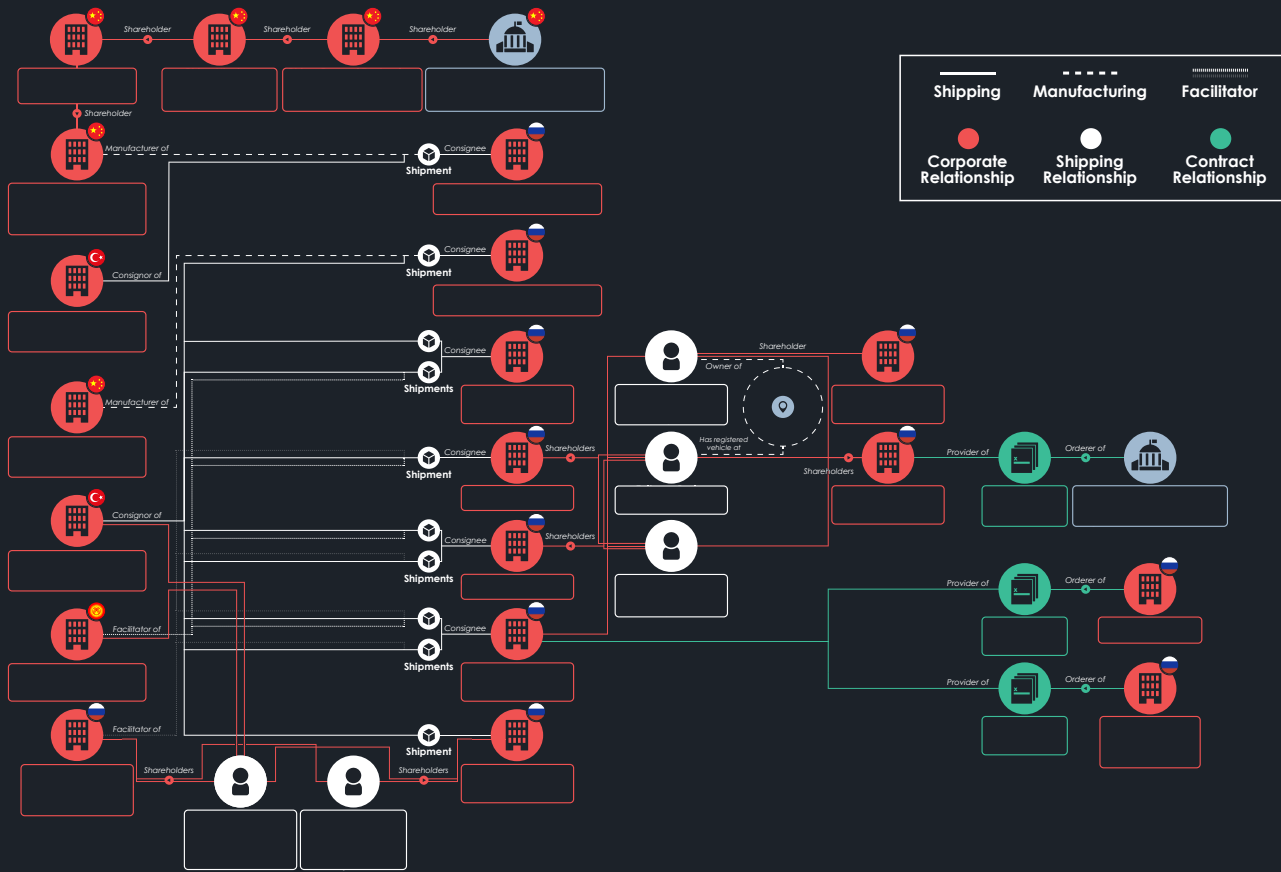
A tool for analyzing uncensored aircraft activity data and tracing global aircraft ownership records.

Curated Data

We can produce derived datasets and screening lists developed for compatibility with internal systems. Sample curated datasets include high-risk entities facilitating Russian defense acquisition and entities like to forced labor in Xinjiang supply chains for UFLPA compliance.

	M	T	W	Th	F
8 am					
9 am		Introductions 8:30 - 9:00am	Recap of Day 1 & Warm Up Quiz 8:30 - 9:00am	Recap of Day 2 & Warm Up Quiz 8:30 - 9:00am	
10 am		Introducing C4ADS and PAI Basics 9:00 - 10:30am	Maritime Domain Awareness 9:00 - 10:30am	Russia Data 1.0 9:00 - 10:30am	Any module can be swapped for an alternative.
		Break 10:30 - 10:45am	Break 10:30 - 10:45am	Break 10:30 - 10:45am	
11 am		Corporate Data 10:45am - 12:15pm	Asset Tracing 10:45am - 12:15pm	Malign Private Military Security Companies 10:45am - 12:15pm	
12 pm		Lunch 12:15 - 1:00pm	Lunch 12:15 - 1:00pm	Lunch 12:15 - 1:00pm	
1 pm		Property Data 1:00 - 2:30pm	Trade Data 1:00 - 2:30pm	China & Iran Data 1:00 - 2:30pm	
2 pm		Break 2:30 - 2:45pm	Break 2:30 - 2:45pm	Break 2:30 - 2:45pm	
3 pm		Seamless Horizons 2:45 - 4:15pm	Illicit Procurement of Goods 2:45 - 4:15pm	Practical Working Session 2:45 - 4:15pm	
4 pm		Conclusion 4:15 - 4:30pm	Conclusion 4:15 - 4:30pm	Conclusion 4:15 - 4:30pm	
5 pm					

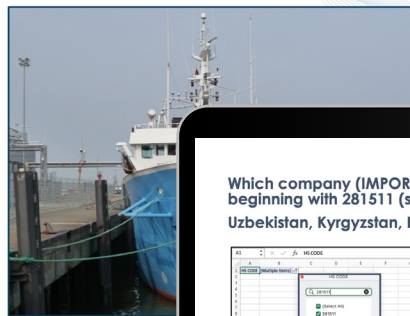
Data Scavenger Hunt



VESSEL IDENTIFICATION EXERCISE

Using the picture provided, answer the following questions:

- What is the name of this vessel?
- What class of vessel is this?
- What is this vessel's MMSI number?
- What is this vessel's call sign?
- What are the previous names of this vessel?
- Who is the registered owner of this vessel?



Which company (IMPORTER) imported the most shipments for products with HS codes beginning with 281511 (sodium hydroxide) in each of the following countries: Uzbekistan, Kyrgyzstan, Kazakhstan, Russia

600+

people **trained** across Analytical Programs and the Learning Lab in 2023.

99%

of anonymous survey respondents indicated they **would recommend** this training to a colleague.

4.18/5

was the overall usefulness score for all training events, with 5 being **extremely useful**.

The most common point of feedback has been that attendees want **more time** and **more opportunities** to engage with the methodologies and data.



“Absolutely an awesome training, a veritable firehose of tools, tricks, datasets, and search tips.”



“Would like to keep in touch for joint investigations. Your professional insight, knowledge and database are very appreciated.”

“I was very impressed with our trainers, who were unfailingly enthusiastic, engaging, and helpful - clearly very knowledgeable and experienced. Thank you!”



“All three presenters were fluent in style, informative and knowledgeable, and adept at provoking discussion around the topics covered. Very enjoyable. I would not hesitate in recommending them all. Thanks.”

-Partner Testimonials

PAI Fundamentals and Uncovering Identities

PAI Basics

Attendees will learn what publicly available information is, the types of PAI data, the ethics and best practices for navigating a PAI environment, and the PAI investigative process.

Corporate Data

Attendees will be introduced to corporate data: the basic components of a corporate record, how to access them across jurisdictions, and unique corporate data sources.

Property Data

Attendees will learn about the relevance, importance, and variety of property data globally, including cadastral, concession, and title deeds. They will learn how to access property data across jurisdictions.

Social Media Analysis

Attendees will learn key social media applications, tools and websites; and how to apply social media data in investigations.

Advanced Search on Search Engines

Attendees will learn how to conduct advanced searches and leverage boolean operators on multiple search engines in order to optimize and make their searching more efficient. and how to protect themselves.

Digital Security

Attendees will learn about the security threats that exist in the digital environment and how to protect themselves.

Sanctions Basics

This module will provide an overview of existing sanctions regimes, with an emphasis on Russia-related sanctions. This session will review the current legal authorities and emerging challenges. If time allows, there will be space at the end for a facilitated discussion on existing processes and challenges for attendees.

Seamless Horizons

Attendees will receive access to Seamless Horizons, which is C4ADS' investigative platform that houses billions of records of data. The platform will be demoed, including key features and functionalities. Attendees will then test their skills on the platform and will have the remaining time to play around with the platform.

Data Literacy and Analytical Techniques

Attendees will learn the common terminology and analytical techniques used in PAI investigations.

Data Sourcing and Standards of Evidence

Attendees will learn how to effectively identify, navigate, and incorporate multiple sources of PAI data. Students will be able to better identify, capture, and store evidence that directly supports legal proceedings (courts, sanctions packages, asset recovery packages, etc.)

Tracking Goods and Services

Trade Data

Attendees will learn the significance of trade data for monitoring and identifying the products and points in the supply chain that support illicit and malign networks.

Maritime Domain Awareness

Attendees will learn about the relevance of maritime domain data sources (including AIS data, vessel ownership data, and flag registries) across problem sets such as sanctions evasion, smuggling, and environmental crime.

Air Domain Awareness

Attendees will learn about aircraft monitoring data, including ADS-B data, aircraft ownership records, and how to interpret them.

Asset Tracing

Attendees will learn the importance of asset tracing to countering illicit financial flows. They will learn how to identify and track the assets of entities of interest.

Illicit Procurement of Goods

Attendees will learn about the mechanics of illicit procurement and movement of goods such as precursors, dual use items, and other illicit goods. They will explore the data sources and methodologies used for this analysis and the significance of such procurement strategies to instability and insecurity.

China

China Data 1.0

Attendees will learn what PAI data exists on problem sets related to China. It will also include search engines analysts should be familiar with and feature data that C4ADS has collected and may be useful to the attendees' areas of interest.

Chinese for English Speakers

This module will provide an overview of how to interpret Chinese and China data for English speakers.

Advanced China Module(s)

These modules serve as means to go in-depth on a particular problem set related to China. Modules can be developed based on the needs of the attendees. Examples include technology transfer and tracking the fentanyl trade.

Iran

Iran Data 1.0

Attendees will learn what PAI data exists on problem sets related to Iran. It will also include search engines analysts should be familiar with and feature data that C4ADS has collected and may be useful to the attendees' areas of interest.

Persian for English Speakers

This module will provide an overview of how to interpret Persian and Iran data for English speakers.

Advanced Iran Module(s)

These modules serve as means to go in-depth on a particular problem set related to Iran. Modules can be developed based on the needs of the attendees. Examples include maritime domain awareness.

Russia**Russia Data 1.0**

Attendees will learn what PAI data exists on problem sets related to Russia. It will also include search engines analysts should be familiar with and feature data that C4ADS has collected and may be useful to the attendees' areas of interest.

Russian for English Speakers

This module will provide an overview of how to interpret Russian and Russia data for English speakers.

Advanced Russia Module(s)

These modules serve as means to go in-depth on a particular problem set related to Russia. Modules can be developed based on the needs of the attendees. Examples include private military contractors and asset identification of Russian politically exposed persons.

Special Topics**Wildlife Trafficking and Resource Extraction**

This module provides a review of risk indicators and trends for natural resources extraction and wildlife trafficking. It discusses the strategies employed and data sources available to counter these threats.

Publicly Available Geospatial Data

Attendees will explore publicly available geospatial data from commercial and free providers. They will learn the applications of geospatial data types across multiple PAI problem sets.

Russia-China Convergence

This module will explore the way that Russia and China's illicit activities converge. Attendees will learn the ways that China experts can overcome some of the challenges associated with China's sparse data environment by leveraging Russia's rich data environment.

Exercises

Draw the Network Exercise

Capitalizing on their exposure to PAI analysis and data sources, attendees will complete a collaborative exercise that tests their understanding of network analysis and PAI investigations. Using a real-world case study, they will review documents to find the proper relationships that link entities in a network to one another.

Data Scavenger Hunt

Using their knowledge of PAI investigative techniques and data sources, attendees will search the open source to find supporting evidence for a previously completed investigation. They will test their data searching and critical thinking skills to recreate the investigation's findings.

Data Cocktail Exercise

Working in small groups, Participants are given a real or fictional situation or topical area and are asked to brainstorm how they would approach the problem. The goal of this exercise is to force participants to think outside the box about how they would approach an analytical problem and incorporate the data sources and methodologies discussed during the week.

Data Buffet Exercise

The data buffet exercise exposes trainees to fundamental concepts of leveraging bulk datasets for creating analytical seed lists. Trainees will learn terminology and concepts common to bulk data analysis, and will engage in top-down analytical thinking.

Practical Working Session

Leveraging all that is learned throughout the training event, this session will be dedicated to openly discussing how to tackle a challenging investigation; or how to dive deep into a certain methodology. In the event that attendees do not want to discuss a certain topic, the trainers are prepared to provide them with an exercise wherein they are expected to take the lessons learned and answer a series.



Learning Lab

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