

Finch Analyst



Finch AI in Critical National Security Theaters

**Speed to Knowledge Leveraging
Large Repositories of Unstructured
Data with Finch Analyst®**

A powerful, real-time entity-
intelligence dashboard from



Aggregations

Criminal

- Taliban (419)
- Islamic State of Iraq and the Levant (78)
- al-Qaeda (53)
- Tehrik-i-Taliban Pakistan (118)
- Islamic State of Iraq and the Levant - Khorasan Province (9)
- Islamic Movement of Uzbekistan (8)
- Hagqani network (7)
- Al-Shabaab (5)
- Islamic Emirate of Afghanistan (5)
- Army of the Guardians of the Islamic Revolution (4)

Geo

- Afghanistan (419)
- United States of America (238)
- Kabul (154)
- Ukraine (94)
- Pakistan (93)
- Iran (74)

Search Results

AND Afghanistan AND Taliban

Showing 1 - 4/9 of 4/9 results

Actions	Date/Time	Source	Title	Text Snip...
	10/11/2022 08:47	ABC Premium News (Rudhali)	Afghanistan on brink of mental health catastrophe, with girls, report warns	Taliban says S-1 earthquake kills northwester Afghanistan
	10/11/2022 08:54	SFGate	Mobas visits Pakistan to visit flood victims	Pakistan and the US: Why General Qasim Javed Baw's

Maps



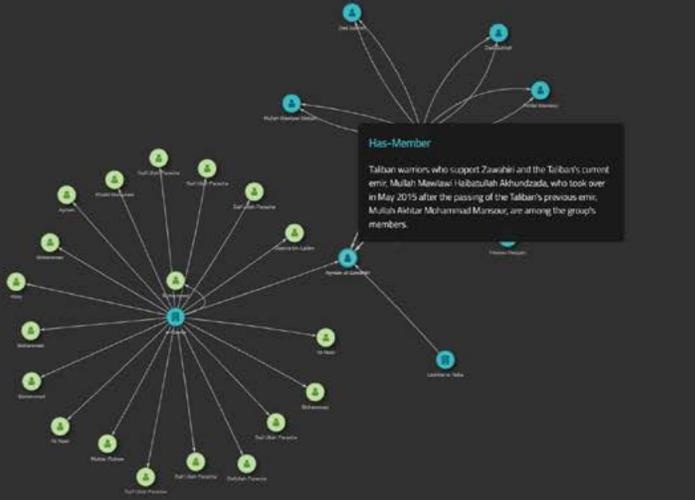
Watchlist

Trafficking, Southern Border

Showing 1 - 50 of 303 results

- For Sex Traffickers, Jack Dorsey's Cash ... 11/3/2022 16:09:06 - Forbes.com
- Moscow's crime problem is making p... 11/3/2022 10:24:41 - Telegraph
- Authorities stop Liber driver smuggling ... 11/2/2022 21:02:56 - FOXNews.com
- Lawyer accused of aiding Mexican ... 10/31/2022 07:30:56 - Tribune's Los Angeles Times (recent 6 months)
- Here's How Much More Mackinac... 10/26/2022 10:39:20 - Forbes.com
- Biden's border disaster: Americans des... 10/25/2022 16:01:38 - FOXNews.com
- Biden, Dems nap through border crisis ... 10/24/2022 16:01:38 - FOXNews.com
- Gaza's appeal rejected by Qasbi court

Search Graph



Documents

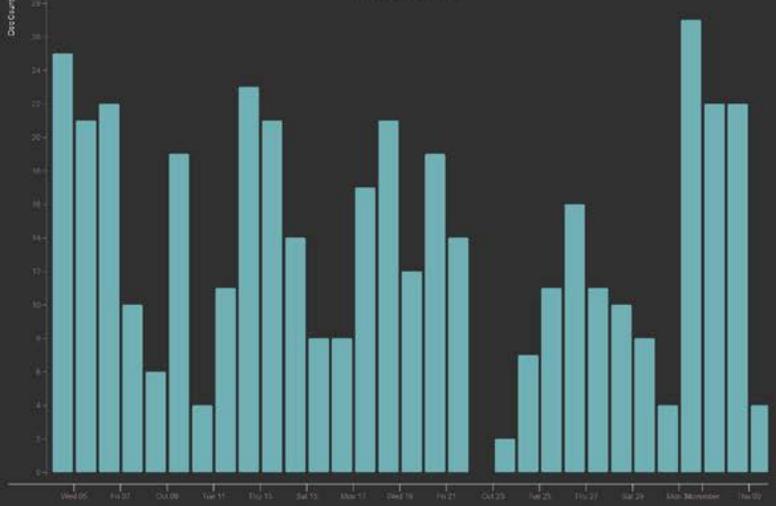
drugs

Showing 1 - 7 of 7 results

- US sanctions Mexicans linked to powerful... 10/19/2022 17:06:21 - SFGate
- DEA seizes nearly two tons of meth from ... 10/16/2022 02:25:12 - FOXNews.com
- "Rainbow fentanyl" pills found inside Leg... 10/6/2022 16:24:42 - CBS News
- ANP seizes 1,568kg drugs, arrests 27 sm... 10/5/2022 19:43:45 - The Nation Pakistan
- Mass killing at Thai Preschool Prompts C... 10/7/2022 08:44:52 - Bloomberg
- San Francisco is owned by drug dealers 10/15/2022 05:44:05 - Arabiya.net
- DEA says Los Angeles area meth bust wa... 10/6/2022 13:44:18 - SFGate

Document Trending

Document Count Per Day



Contents

- 2 Entity-Driven Analytics and Speed-to-Mission Intelligence
- 4 Powered by Finch for Text®
- 5 In Practice: Tracking Fentanyl Shipments at the Southern Border
- 7 Finch Analyst Capabilities
 - 7 **Quickly Identify Entities at Play**
 - 10 **Understand Entity-Level Sentiment**
 - 11 **Entity Search Aggregations**
 - 12 **Entity and Network Relationship Extraction**
 - 14 **Target Bad Actors**
 - 15 **Leverage Text Summarization to Accelerate Analysis**
 - 16 **Deliver Immediate, Analyst-Specific Content Using Watchlists, Interest Areas & Topic Tagging**
 - 17 **Save and Share Customized, Pre-Configured Dashboards**
 - 19 **Easy Integration with Customer Systems**
 - 19 **Rapid Value-to-Intelligence from Open-Source Content**
 - 19 **Cross-Domain Capabilities**
 - 19 **Leverage Machine Learning, NLP & Services Partners**
- 20 Learn More

Entity-Driven Analytics and Speed-to-Mission Intelligence

Finch Computing is a software and data products company that has been serving the United States Intelligence Community (U.S. IC) and Department of Defense for more than a decade. We specialize in solving real-time, unstructured text challenges at scale. We accomplish this by building world class software using Agile SAFe, DevSecOps embracing Continuous Integration/Continuous Delivery (CI/CD) to effectively and rapidly deliver business value. Finch software and data products have already been developed and are commercially available today to help US federal government and commercial customers to rapidly discover, access, enrich and exploit relevant, correlated data from disparate sources. Finch prides itself on the agility of its data science and engineering teams to constantly improve and add new features, functionality, and content for our users.



Monitoring illicit activity, whether it be from terrorists around the world or drug and human trafficking along the U.S.-Mexico border to name a couple of examples, are all important national security priorities. Analysts – whether working for the DoD, DHS, CBP, DIA, NSA, CIA, DEA and others – need access to real-time, actionable information in order to fulfill their missions.

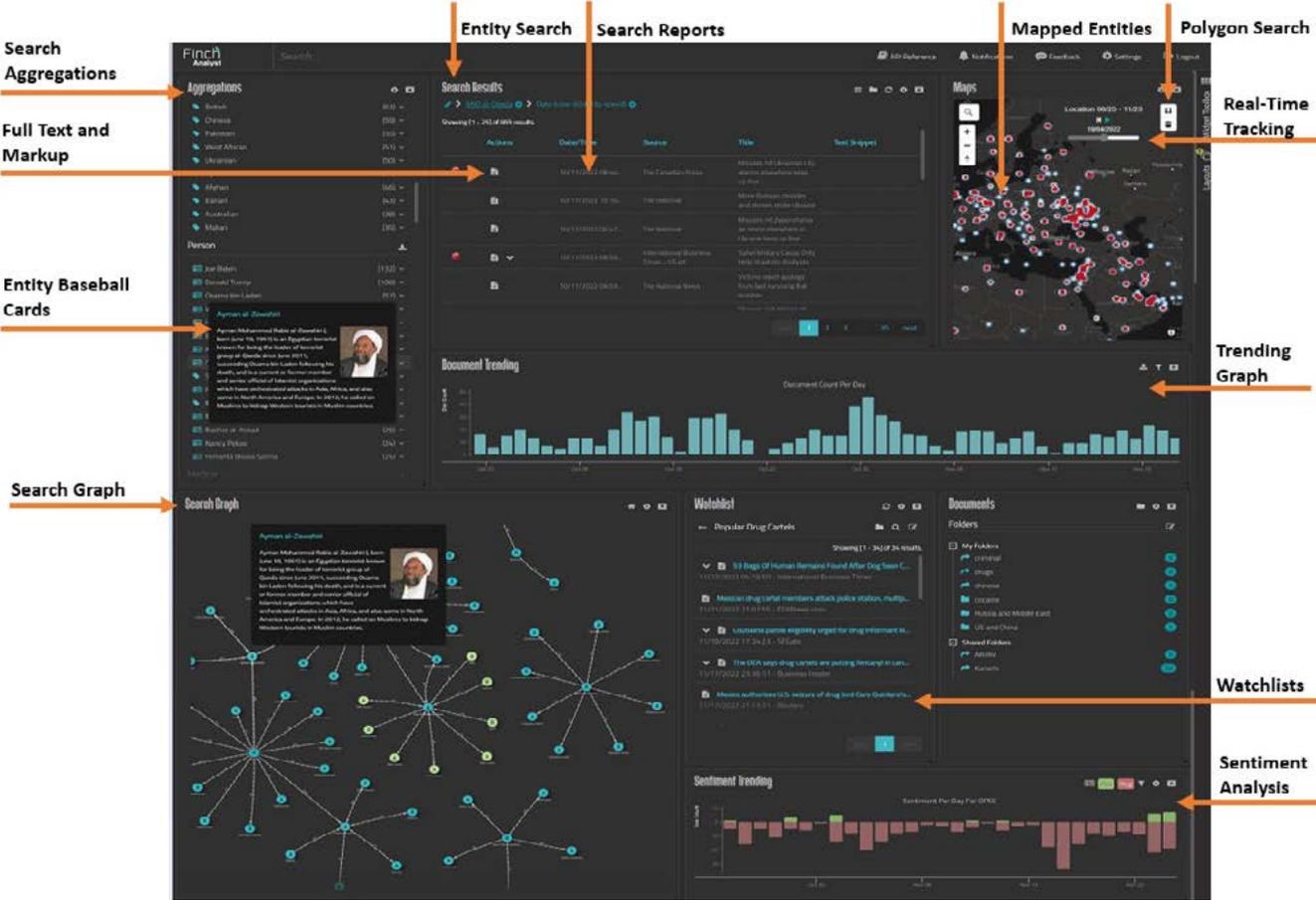
Enter, Finch Analyst



Finch Analyst® is an all-source intelligence and monitoring platform built for high-stakes, high-volume data environments – exactly the types of environments described above. It affords users the ability to conduct sophisticated, real-time analysis on a massive corpus of data, right from their desktops. Its massive knowledge bases and sophisticated models deliver accuracy and trust. Put plainly, Finch Analyst brings complex analytics to an easy-to-use dashboard. It helps analysts become more effective, teams collaborate, and makes organizations more efficient.

What Makes It Powerful:

- ▶ Customizable for specific use cases, content types and entities
- ▶ All-source data: operates on a variety of data sources (public, private, classified)
- ▶ Analysts can monitor entities and events with real-time alerting

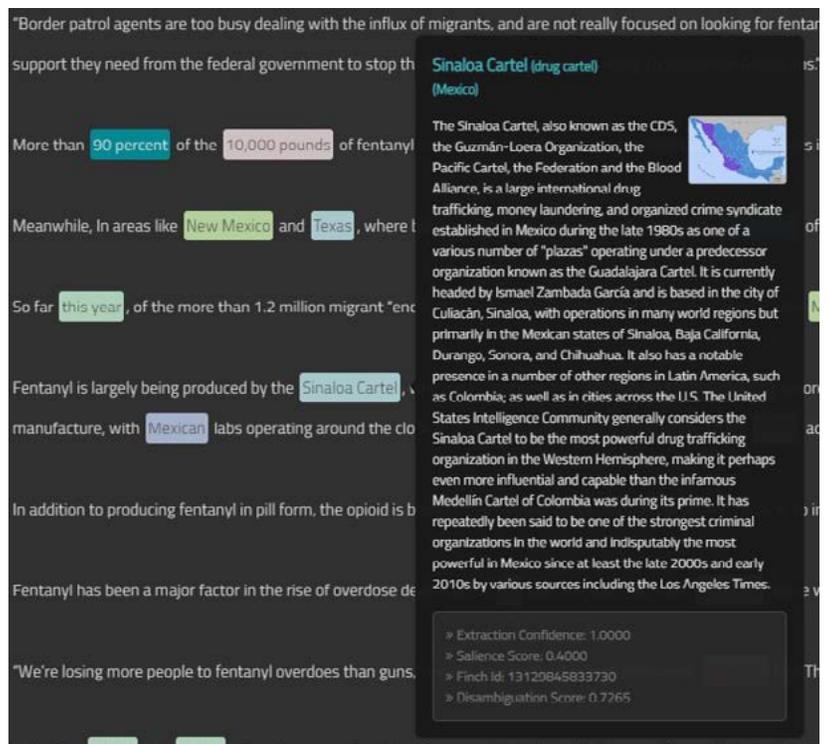


- ▶ Search across all entities and relationships discovered by Finch for Text and stored within the Finch Analyst database.
- ▶ Create high-level and granular reports from the search results that help drive the next questions that analysts should be asking
- ▶ According to mission scope, the map view in Finch Analyst can show where in the world content about a particular entity are coming from (content source location) OR which geographic places are mentioned within it (all referenced geographic features)

Powered by Finch for Text®

Under the hood, Finch Analyst is powered by Finch for Text (FFT), our proprietary, real-time natural language processing (NLP) software as a service offering that leverages artificial intelligence (AI) and machine learning (ML) to turn human-generated text into a machine-readable format for fast and accurate analysis. Finch for Text can extract billions of entities (people, places, nation-states, criminal organizations and more) in text and disambiguate them (e.g. – which Mark Milley, which Washington), accurately resolving them to knowledgebase for additional metadata enrichment. Every day, for customers across the federal government, it reads millions of unstructured documents – message traffic, news articles, blogs, websites, TV and radio broadcast transcripts – and delivers insights that power smarter decision making.

Finch Computing has a long legacy of deriving rich geographic insights from textual data for customers through our MetaCarta software, and now with FFT we have radically expanded our products' breadth of analysis from multiple forms of structured and unstructured text. Finch uses our proprietary, context-based approach to NLP to extract, disambiguate and enrich entities. Going a step further, FFT also extracts key phrases and builds topic models that drive its accuracy and enables additional analytics capabilities such as document, sentence and entity-level sentiment. Its newest capability is entity relationship extraction, discovering how two entities are related to one another. Finch JSON outputs are delivered to users in real-time or at a time of their choosing and can easily be integrated into existing tools or systems. Language translation and foreign-language NER are available, as well.



Our data scientists and engineers have created an industry leading patent portfolio spanning text analytics, entity disambiguation, knowledge discovery, search, in-memory computing, and data compression, enabling us to innovate and deliver truly game-changing solutions to our customers. Finch's high-precision entity extraction, disambiguation and enrichment capabilities – across more than two dozen entity types – enable robust, sophisticated analytics for users.



In Practice: Tracking Fentanyl Shipments at the Southern Border

Using our southern border scenario, an analyst looking to monitor and track information about fentanyl coming into the United States needs to understand, for example, **who** are the known criminals in the cartels; **what** are they doing and saying to one another; **where** are the people in their networks moving; **when** are those movements happening; and **how**. From there, they can develop hypotheses about why and what's next.

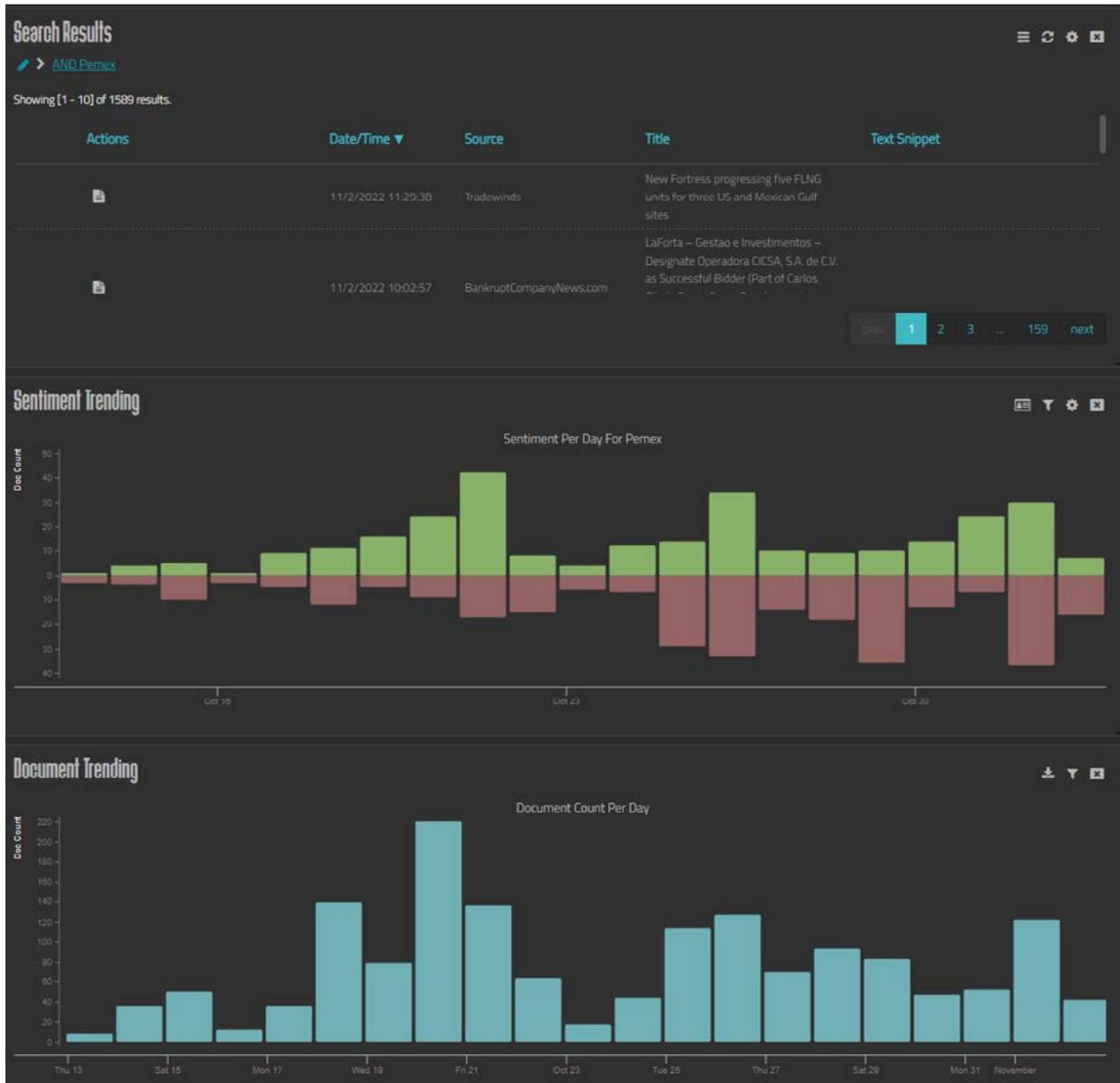
Finch Analyst can help them track all of these things, find relationships in the data, and create reports to share an analyst's findings with others.



Finch Analyst



For companies and organizations, Finch Analyst can show sentiment about them as well. Users can see metadata about the entity and a red, green, or yellow sentiment score – negative, positive, or neutral respectively. The product can also show a salience score – the degree to which a piece of text is about an entity – meaning that, in an instant, an analyst can determine what a piece of text is about, what the sentiment is and the degree to which the sentiment is positive or negative.



TRADEWINDS - NEW FORTRESS PROGRESSING FIVE FLNG UNITS FOR THREE US AND MEXICAN GULF SITES

11/2/2022 15:29:38

Show original document Highlight sentiment

Acronym Datetime Datetime Range Email Geo/Location IPv4 Measurement Money Nationality Organization Person Phone Number Position Thing Twitter URI

Company reveals it has trio of FSRUs open for deployment over the next three years

US-listed New Fortress Energy expects to deploy five of floating LNG (FLNG) production units at three separate sites in the US and Mexican Gulf.

Hosting an FLNG investor day at the Alvarado Offshore Services shipyard near Corpus Christi, Texas where the company is converting jack-up rigs into FLNG units, New Fortress said its first floater under its Fast LNG brand will be deployed by mid-2023. It had previewed this next year.

New Fortress said it will put another four units on to their sites by the end of 2024.

In a presentation, the company illustrated that two of these would be deployed off Louisiana in the US and said it is now progressing permitting for these with MARAD and the US Coast Guard.

Another two will form a new FLNG hub off Altamira in Mexico where the company has signed up to a 15-year pipeline gas supply deal with Mexican state electric utility Comision Federal de Electricidad.

The company showed a single FLNG unit off Lakach in Mexico where it is engaged in a seven-well development with domestic energy outfit Pemex.

Article continues below the advert

"Our LNG volumes are expected to grow substantially due to Fast LNG," the company said.

New Fortress said it

it said: "The economics

New Fortress indicated

it also said it will aim to

New Fortress revealed

TRADEWINDS - NEW FORTRESS PROGRESSING FIVE FLNG UNITS FOR THREE US AND MEXICAN GULF SITES

11/2/2022 15:29:38

Show original document Highlight entities

Positive Neutral Negative

Company reveals it has trio of FSRUs open for deployment over the next three years

US-listed New Fortress Energy expects to deploy five of floating LNG (FLNG) production units at three separate sites in the US and Mexican Gulf.

Hosting an FLNG investor day at the Alvarado Offshore Services shipyard near Corpus Christi, Texas where the company is converting jack-up rigs into FLNG units, New Fortress said its first floater under its Fast LNG brand will be deployed by mid-2023. It had previewed this next year.

New Fortress said it will put another four units on to their sites by the end of 2024.

In a presentation, the company illustrated that two of these would be deployed off Louisiana in the US and said it is now progressing permitting for these with MARAD and the US Coast Guard.

Another two will form a new FLNG hub off Altamira in Mexico where the company has signed up to a 15-year pipeline gas supply deal with Mexican state electric utility Comision Federal de Electricidad.

The company showed a single FLNG unit off Lakach in Mexico where it is engaged in a seven-well development with domestic energy outfit Pemex.

Article continues below the advert

"Our LNG volumes are expected to grow substantially due to Fast LNG," the company said.

New Fortress said it plans to add over 7 million tonnes per annum of liquefaction capacity to its existing volumes to give it an LNG portfolio of around 9.5 mtpa by the end of 2024.

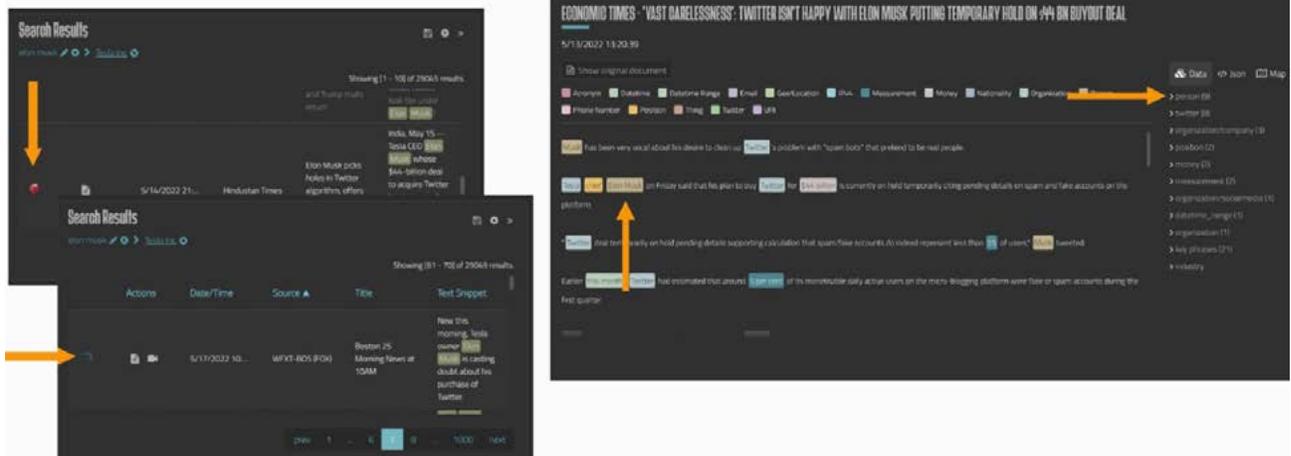
it said: "The economics of Fast LNG are potentially transformative for our company."

New Fortress indicated that during 2023 to 2026 it plans to respond to market opportunities to sell FLNG production "primarily to Europe in the near term".

it also said it will aim to deploy floating storage and regasification units to "create incremental regas capacity in high-margin locations".

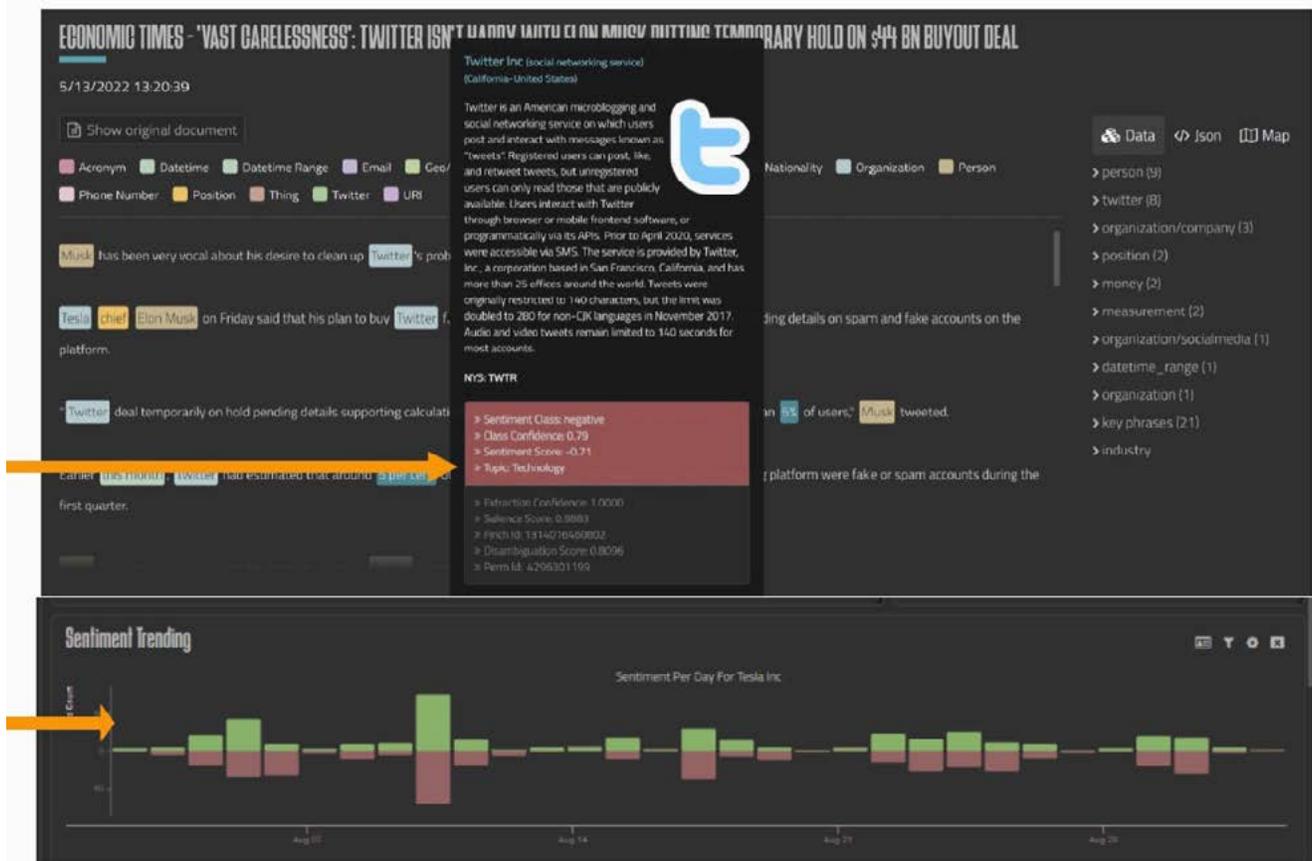
New Fortress revealed it has three FSRUs for deployment, with one falling open each year from 2023 to 2025.

Search results yield dates, titles, sources, and content snippets. Sources are listed alongside the result for quick ID of content originator. The text markup view displays entity types inside a piece of text and their respective entity count.



Understand Entity-Level Sentiment

Users can quickly see the current feeling toward an entity using Sentiment Analysis. Each data point is given a sentiment score based on its content. Entity sentiment is tracked real-time to deliver globalized feeling on a particular subject and can be tracked by the hour or day by utilizing the sentiment trending graph and polygon search.

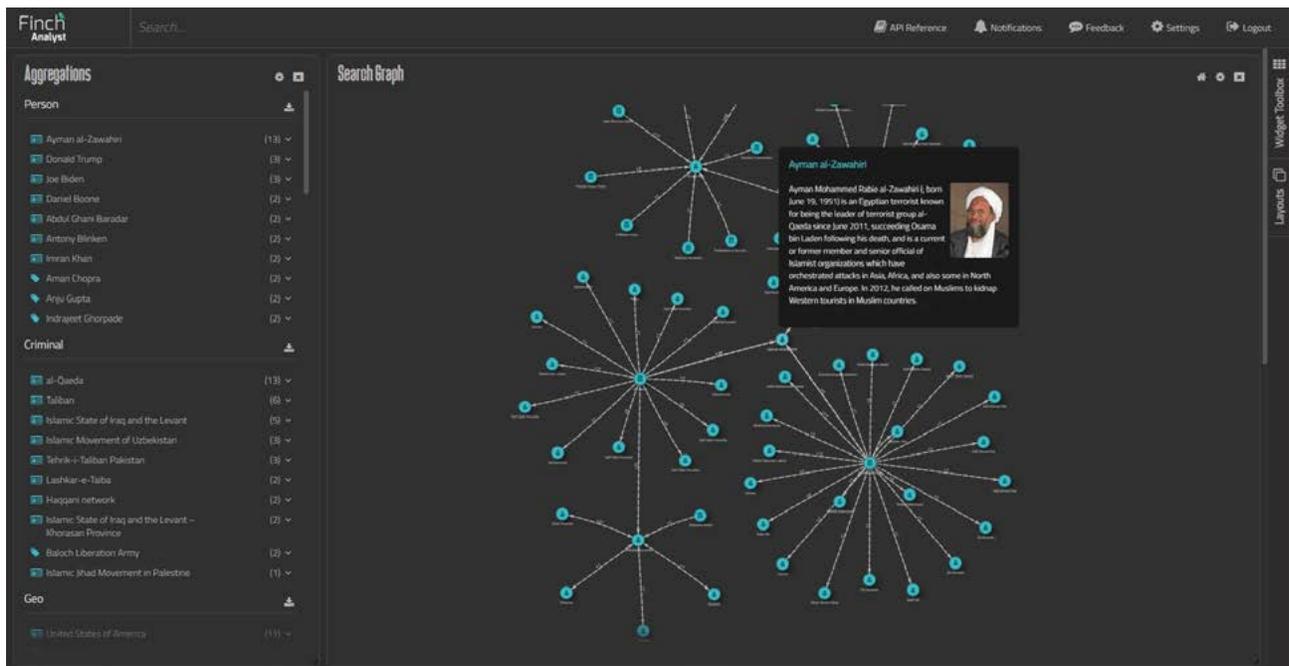


Entity and Network Relationship Extraction

Finch's latest capability is entity interrelationship extraction from text content: understanding how entities are related to one another for exploration within a graph database. Understanding the non-obvious relationships between people and other entities (e.g., other people, companies, groups), sometimes several degrees of separation away, are issues that this Finch capability will reveal. Social network analysis on target organizations can be investigated; corporate shells and fronts can be mapped to the bad actors controlling them; geographic locations of people can be discovered and plotted for tracking.

The Search Graph in Finch Analyst provides a visual representation of entity connection within the data set being monitored. Each graph node represents an entity and each arrow represents how that entity is related to another entity. Hovering over graph nodes and arrows provides a brief description of its type and content as well as the evidence for the relationship or the sentence that was used to determine it as well as a baseball card view for the disambiguated entity.

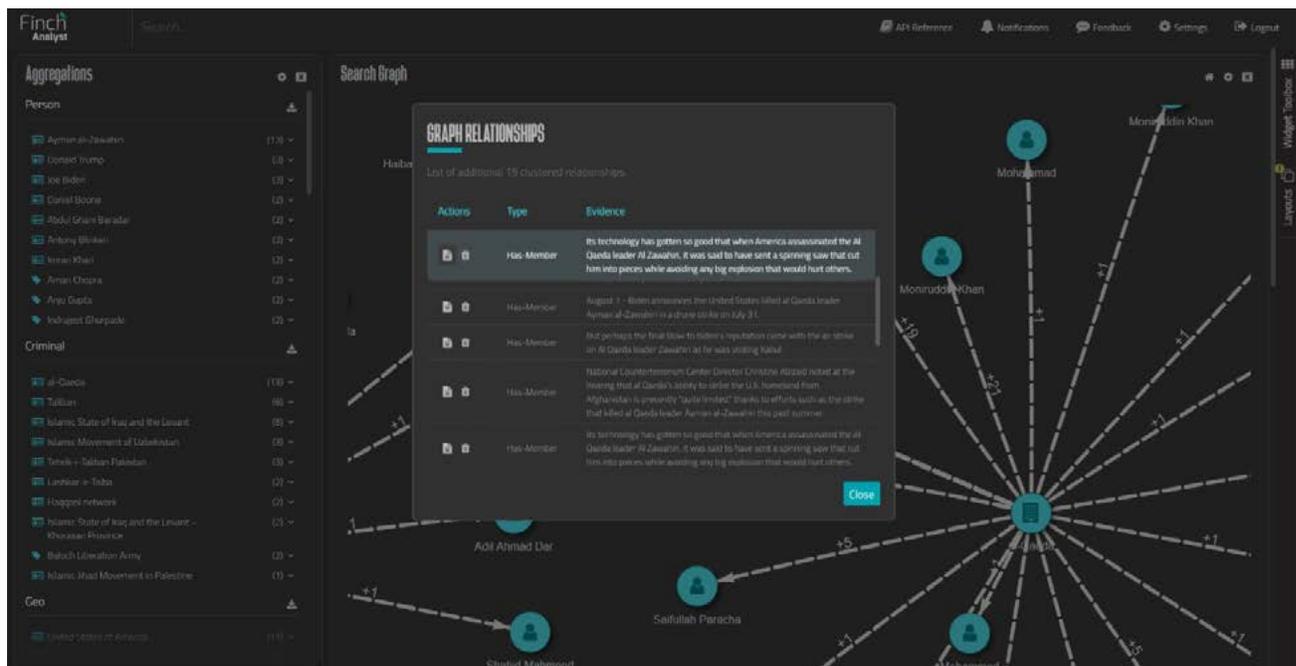
In the image below a user has hovered over a graph node and immediately sees a baseball card.



Below a user sees 19 relationships between 2 entities. When the relationship arrow is hovered over, a summary of the evidence for the relationship appears.

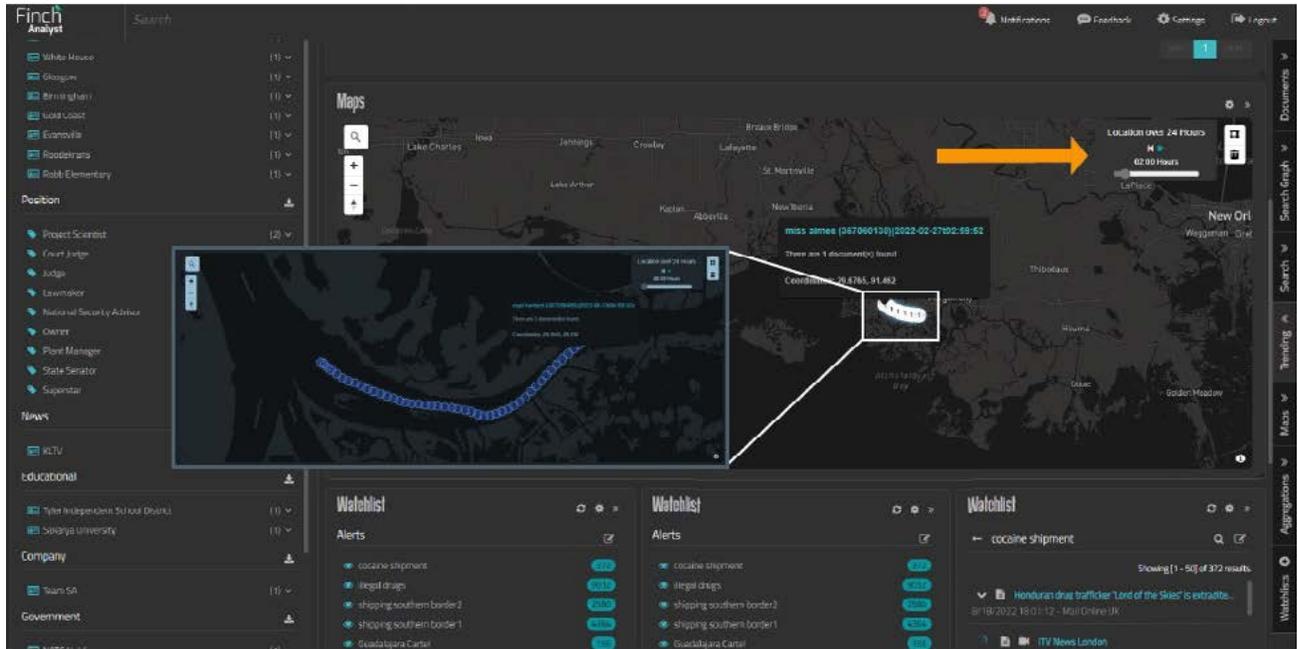


When multiple relationships appear, a user can double click on the arrow and a list box will appear where they can see the evidence for each relationship and have the option to view the document it came from to gather additional context.

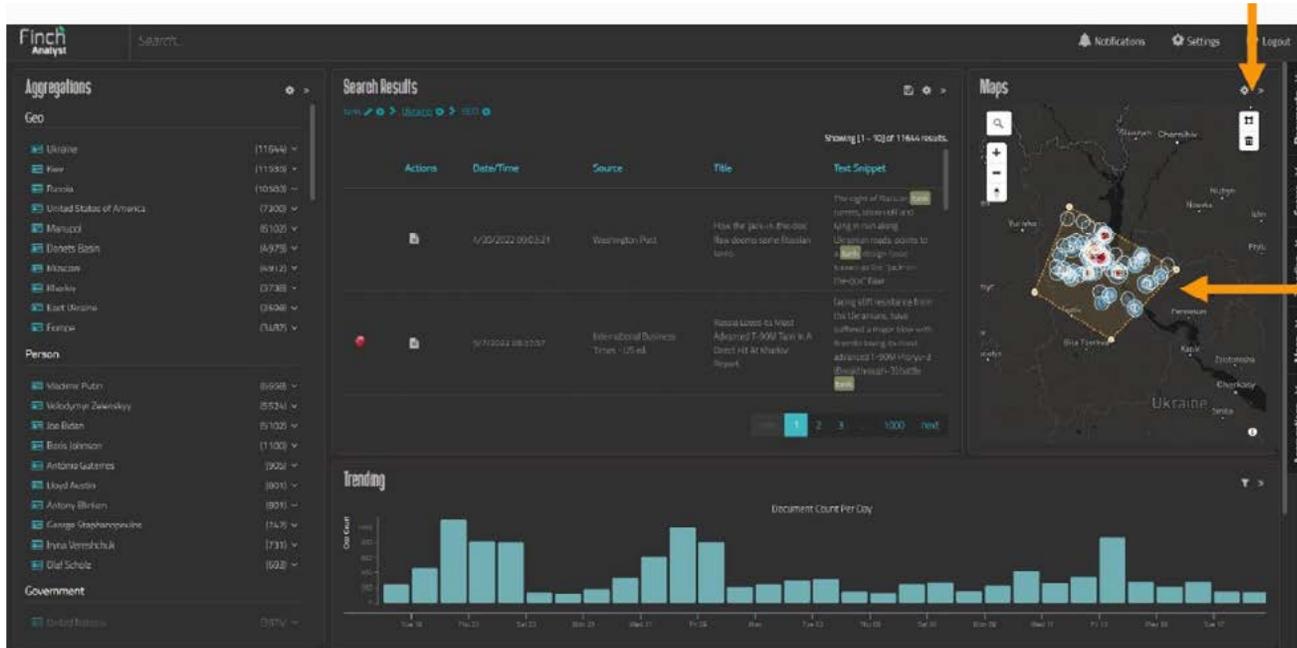


Target Bad Actors

Users can track the movement of entities over time with playability, zoom in or out, and also conduct polygon searches to bound results to a particular geographic area.



Users can use the map tool to zoom into an area of interest and draw a filtering polygon to find content that either mention a specific area or come from a specific area on a map. Below we see that there is a concentration of content that mentions “tanks” around the Ukrainian city of Kiev.



Leverage Text Summarization to Accelerate Analysis

Of course, when analysts notice an uptick in mentions or co-occurrence, or a change in sentiment, they will want to take a deeper dive into the pieces of text from which these signals emerge. Here, Finch Analyst and Finch for Text offer another important capability: automated summarization through artificial intelligence.

Using our proprietary approach, we extract key phrases from unstructured text and determine their importance to the overall document. We then make inferences in context and use those key phrases to understand whether a document, a sentence or a specific entity mention is relevant to the analytics task being performed. This key-phrase extraction allows us to build highly accurate topic models that allow us to summarize an entire piece of text – shortening the time-to-value for analysts looking at multiple content pieces from disparate sources.

Summary

Drug cartel Narco-Antennas make life dangerous for Mexico's cell tower repairmen. Traffickers still rely on two-way radios like ones police and firefighters use to coordinate their teams on ground. They also install so-called parasite antennas on existing cell towers layering their criminal communications network on top of official one. Law enforcement experts say cartels save money and evade detection since their own towers are more easily spotted and torn down. Problem persists because government has made inconsistent efforts to take it on.

Special Report: Drug cartel narco-antennas make life dangerous for Mexico's cell tower repairmen. By Julia Love. July 15, 2020. MEXICO CITY (Reuters) - The young technician shut off the electricity at a cellular tower in rural Mexico to begin some routine maintenance. Within 10 minutes, he had company: three armed men dressed in fatigues emblazoned with the logo of a major drug cartel. The traffickers had a particular interest in that tower, owned by Boston-based American Tower Corp AMT.N, which rents space to carriers on its thousands of cellular sites in Mexico. The cartel had installed its own antennas on the structure to support their two-way radios, but the contractor had unwittingly blacked out the shadowy network. The visitors let him off with a warning. "I was so nervous... Seeing them armed in front of you, you don't know how to react," the worker told Reuters, recalling the 2018 encounter. "Little by little, you learn how to coexist with them, how to address them, how to make them see that you don't represent a threat." The contractor had disrupted a small link in a vast criminal network that spans much of Mexico. In addition to high-end encrypted cell phones and popular messaging apps, traffickers still rely heavily on two-way radios like the ones police and firefighters use to coordinate their teams on the ground, six law enforcement experts on both sides of the border told Reuters. Traffickers often erect their own radio antennas in rural areas. They also install so-called parasite antennas on existing cell towers, layering their criminal communications network on top of the official one. By piggybacking on telecom companies' infrastructure, cartels save money and evade detection since their own towers are more easily spotted and torn down, law enforcement experts said. The practice has been widely acknowledged by telecom companies and Mexican officials for years. The problem persists because the government has made inconsistent efforts to take it on, and because companies have little recourse to stop it, experts on law enforcement and Mexican society said. "There is a sense of powerlessness" in Mexico, said Duncan Wood, director of the Wilson Center's Mexico Institute in Washington. He said companies feel they "cannot respond to issues like this because (they) are afraid of the consequences from groups that essentially enjoy impunity." Mexico's Defense Ministry said it provides security for federal agencies that request its help in dismantling "parasitic equipment" installed by cartels on cell towers. The nation's Attorney General's office did not respond to a request for comment about criminal activity at these sites. The Federal Telecommunications Institute, Mexico's telecom and broadcasting regulator, said its compliance unit had not received reports of parasite antennas from any companies under its jurisdiction. Reuters has provided the first in-depth account of how traffickers exploit Mexico's telecom infrastructure and the toll it takes on workers. The news organization interviewed 14 current and former telecom workers about the interactions that they and their colleagues have had with criminal groups at cell towers. Twelve of

For every piece of text, users can see 100 key phrases or words that the product has extracted. Numbers in parenthesis next to each phrase indicate a weighting and a relationship to one another, which are ultimately used to calculate a topic model. From the same view, on the same piece of text, a user can also hover over specific entities and see more information about them.

Deliver Immediate, Analyst-Specific Content Using Watchlists, Interest Areas & Topic Tagging

For analysts monitoring multiple situations at once or interrogating multiple sources of information – which is the case for most analysts in practice – Finch Analyst offers a differentiated capability. Leveraging our entity analytics expertise and our unique approach to topic modeling, users can create topic-based interest areas and have content pushed to them that is about a certain topic of interest, rather than content that simply mentions it.

As an example, if a user is interested in content about drug trafficking at the U.S.-Mexico border, a user could create a custom feed that delivers content on precisely that topic. To do it, a user would simply indicate whether an article is of interest or not via a thumbs-up/thumbs-down feature. Finch for Text would use the attributes of the “thumbs up” articles to find mathematically similar content and deliver that to a user in a feed. As the user “rates” each piece, he or she is effectively tuning and training a model and improving the relevancy of the content in the feed.

Additionally, a user could create multiple topics or areas of interest this way. One analyst could have curated content on the U.S.-Mexico in one feed, Russia and Ukraine in another, and North Korea in a third. And the feed would be specific to what this individual analyst or groups of analysts is monitoring. Other analysts could create other feeds just as easily on myriad topics.

Finch Analyst allows users to create and name an unlimited number of “watchlists”. Any query used within Finch Analyst including using polygon searches on the map can be turned into a realtime watchlist with the click of a button. All new content that comes in will immediately appear in the watchlist widget automatically as it arrives.

The image displays three side-by-side screenshots of the Finch Analyst Watchlist interface. Each screenshot shows a list of news articles relevant to a specific watchlist.

- Left Screenshot: Alerts**
 - Watchlist name: Alerts
 - Articles listed:
 - Trafficking on Southern Border (5)
 - Putin and Odessa region (12)
 - General Sergey Shoygu (13)
 - Biden (23)
- Middle Screenshot: Trafficking on Southern Border**
 - Watchlist name: Trafficking on Southern Border
 - Showing [1 - 10] of 10 results.
 - Articles listed:
 - Drugs tunnel connecting US and Mexico found (5/17/2022 12:34:18 - BBC)
 - Massive Tunnel Found From Mexico Into U.S. With \$25M... (5/17/2022 03:54:35 - Newsweek)
 - Father, son, convicted of drug charges, sent to prison (5/16/2022 20:44:19 - SFGate)
 - Some Chocolate Has a Dark Side to It – Child Labor (5/16/2022 13:16:05 - Haaretz)
 - Patriots for America says it's working to stop human trafficking (5/13/2022 09:11:15 - Los Angeles Times)
 - The Evening Edit (5/12/2022 22:55:03 - Fox Business Network)
- Right Screenshot: General Sergey Shoygu**
 - Watchlist name: General Sergey Shoygu
 - Showing [1 - 50] of 136 results.
 - Articles listed:
 - Ukraine ends bloody battle for Mariupol; Azovstal fighters evac... (5/17/2022 17:35:08 - Washington Post)
 - Azovstal defenders' heroic hold-out may yet prove decisiv... (5/17/2022 13:59:54 - Telegraph)
 - Watch: Putin's Leg Keeps Twitching, Fidgeting During Mee... (5/17/2022 02:22:39 - International Business Times)
 - Russia fighting for 'motherland' (5/16/2022 12:12:46 - China Daily (Hong Kong Edition))
 - Vladimir Putin 'very ill with blood cancer': Russian oligarch clai... (5/16/2022 11:57:49 - International Business Times UK)
 - Putin Is 'Seriously Ill', Potentially Terminal, Ex-M16 Russia ... (5/16/2022 10:49:53 - Newsweek)
 - Christopher Steele, the spy behind the discredited 'pee tap...' (5/16/2022 10:12:39 - Business Insider US)
 - Putin 'Isn't Rational'; No One Could've Prevented Ukraine War... (5/15/2022 18:54:38 - Newsweek)
 - AP News in Brief at 6:04 a.m. EDT (5/14/2022 16:43:23 - The Canadian Press)

Save and Share Customized, Pre-Configured Dashboards

Analysts spend a lot of time customizing tools to fit their needs. Finch Analyst helps the analyst by giving them the ability to save multiple custom dashboard views. A dashboard consists of any number of widgets arranged in different sizes and places on the screen. In one instance a user may need a large map widget view for tracking an entity of interest. In another instance the same user may want to monitor multiple watch lists or focus on graph exploration. Finch Analyst makes this easy for the user by enabling the user to save multiple dashboards that can look dramatically different from each other. User's can switch between dashboards in an instant with the click of a button and modify / save changes to a dashboard at any time. Once a dashboard is saved, that dashboard can also be shared with other users.

Below is a dashboard setup for entity tracking.

The screenshot displays the Finch Analyst interface for entity tracking. The main map shows the state of California with several red and white circular markers representing ship locations. A pop-up window for the 'DEL MONTE PRIDE' provides details: 'There are 2 mentions of this Geo Entity. The DEL MONTE PRIDE is a Cargo vessel with an IMO of 83800963. The DEL MONTE PRIDE has an IHO of 9880893. For radio communications the DEL MONTE PRIDE used the call sign V7748833.' Below the map is a search results table with columns for Actions, Date/Time, Source, Title, and Text Snippet.

Actions	Date/Time	Source	Title	Text Snippet
	10/20/2022 20:00...	AR	DEL MONTE PRIDE (83800963) Geo Event, 2022-10-21	
	10/20/2022 20:00...	AR	BLUE MOON (138621111) Geo Event, 2022-10-21	
			BLUE MOON (138621111) Geo Event,	

Annotations on the right side of the image point to specific features: 'Save Custom Dashboards' points to the 'Dashboard Layouts' header, and 'Pre-set for tracking' points to the 'Ship Tracking' option in the 'My Saved Layouts' list.

Below is a dashboard setup for monitoring watchlists and shared folder content.

The screenshot displays the Finch Analyst dashboard with a grid of widgets. On the left, there are 'Watchlist' and 'Documents' sections. The top row shows three 'Watchlist' widgets: 'My Watchlists', 'Popular Drug Cartels', and 'Popular drug cartels near the southern border'. The bottom row shows three 'Documents' widgets: 'criminal', 'drugs', and 'china'. On the right side, there is a 'Dashboard Layouts' sidebar with a 'Save Custom Dashboards' button at the top and a 'Pre-set for monitoring watchlists' section containing 'My Saved Layouts' and 'Shared Layouts'. An orange arrow points from the 'Pre-set for monitoring watchlists' label to the 'Watchlists and Shared Folders' option in the sidebar.

Below is a dashboard setup for graph exploration.

The screenshot displays the Finch Analyst dashboard with a 'Search Graph' widget. The graph shows a network of nodes and edges, with a central node highlighted. A pop-up window shows details for 'Ayman al-Zawahiri', including a photo and a brief biography. On the left, there are 'Aggregations' sections for 'Person' and 'Criminal'. On the right, there is a 'Dashboard Layouts' sidebar with a 'Save Custom Dashboards' button at the top and a 'Pre-set for graph exploration' section containing 'My Saved Layouts' and 'Shared Layouts'. An orange arrow points from the 'Pre-set for graph exploration' label to the 'Graph Explorer' option in the sidebar.

Easy Integration with Customer Systems

The entire Finch platform of modularized, open, and easily integrated and tailored services allow developers to build on their existing capabilities in an efficient and scalable way and allows analysts to receive accurate data and insights that get better over time.

As a dashboard solution, or as an open API with microservices Finch for Text and Finch Analyst offer an effective tool in a developer's toolbox as they work with classified and unclassified text-based sources to complete their missions. Finch for Text is an enterprise, RESTful API service that is reusable for different kinds of tasks that can be integrated throughout the data pipeline. Its open architecture and open APIs means there's no need to control or store your data.

Rapid Value-to-Intelligence from Open-Source Content

Among the many benefits of our product suite is the ability to deliver rapid and unique value-to-intelligence of open-source content and the ability to process it quickly and accurately on new or emerging geopolitical events that are not routinely monitored. In Finch Analyst and in Finch for Text, we offer a premier text analytics service that turns unstructured data into structured knowledge on relevant intelligence at the speed of need.

Cross-Domain Capabilities

Finch can also utilize its cross-domain capabilities (CDS) to mirror into high side data sets for increased operability. This also permits reference to those data sets at secure classification levels and provide immediate verification of questionable data within seconds. Because of these already proven CDS capabilities, Finch is able to perform software development on the low-side and promote code easily and seamlessly to Finch teams working on the high-side.

Leverage Machine Learning, NLP & Services Partners

Finch for Text uses text analytics and machine learning to enhance knowledge discovery from massive OSINT repositories. Our patented, precision entity extraction and content tagging empower automated discovery. Topic modeling services assist collection and all-source analysts in mining for new "topic patterns." Our text summarization capabilities enhance the value and utility of user-facing, streaming text and alert services—accelerating analyst discovery of relevant knowledge from massive text repositories.

We work with partners like TVEyes and LexisNexis to bring in content; to develop and train models and to complement our customers' datasets. We can create custom solutions using a range of modern analytics capabilities utilizing commercial or private clouds, as well as unique customer environments.

This intelligence is displayed in the Finch Analyst dashboard, with customizable views per-user and custom solutions developed all the time.

Learn More

Finch Computing solutions are being used across multiple federal agencies and subagencies specializing in intelligence and securing our national defense. Additionally, a number of private companies across finance, media and content aggregation rely on Finch Computing to support their user-facing products. Our solutions support open-source intelligence, risk monitoring, media monitoring, political bias monitoring, and alpha generation use cases, among others.



Finch Analyst

As described above, Finch Analyst is an open API and dashboard solution that brings together all of Finch Computing's entity analysis capabilities.



Finch for Text

Borne from our MetaCarta software, Finch for Text expands on that product's geographic extraction and disambiguation capabilities to identify more than a dozen entity types in text – including people, organizations, companies, ticker symbols, dates and times, and more. It uses our proprietary, context-based approach to natural language processing (NLP) to extract, disambiguate and enrich entities. Going a step further, Finch for Text can also extract key phrases and build topic models that drive its accuracy and enable additional analytics capabilities such as document, sentence and entity-level sentiment. Its JSON outputs are delivered to users in real-time or at a time of their choosing and can easily be integrated into existing tools or systems. Finch for Text offers multiple language support, with new languages added all the time and by customer request.

Finch for Text DevSecOps

A complement to Finch for Text is the DevSecOps that goes along with it. It never goes down and is consistently fast. It can run in classified environments as a cloud-hosted SaaS and on-prem in classified environments via Docker container. It is currently accredited and running in C2S and JWICs.

FinchDaaS

FinchDaaS

Finch Data as a Service (DaaS) brings together a real-time feed of radio and television news from more than 2,500 outlets in 23 countries worldwide that is transcribed and enriched by Finch for Text. With FinchDaaS, users can easily assess the entities, sentiment and key phrases in the feed and integrate that data into their existing analytics platforms. Users can also curate the feed to align with particular topics or entities of interest, and then examine the relationships between them through graph database exploration.

FinchDB

FinchDB

FinchDB is the underlying, distributed in-memory database that allows Finch for Text to operate as quickly and accurately as it does. We hold patents in data compression and in-memory computing, which enable real-time, complex analytics on data – even as it is streaming (and thus changing) by the second. This enables Finch for Text to perform analytics on huge volumes of data and, as models are tuned and trained over larger and larger corpora of data, ensures that our analytics become more precise as we ingest higher volumes of data.





Contact Us

info@finchcomputing.com

+1 571 559 8003

Washington, DC

12110 Sunset Hills Road
Suite 600
Reston, VA 20191

Beavercreek, OH

3855 Colonel Glenn Highway
Suite 120
Beavercreek, OH 45324