



Cogniware Insights

Product Introduction

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Solution Overview

Centralize Your Knowledge



Cogniware Insights

is **Evidence Analysis Software** that:

- Centralizes all relevant data about suspicious activities and subjects involved in a case
- Helps analysts to uncover hidden relationships between objects
- Produces visual outputs of investigation in charts, network diagram or map
- Manages whole investigation process under controlled circumstances

Part of Investigation Process



Addressing Common Problems



Weak Teamwork

Inefficiently or not shared information across team



Lacking Alerts

Missing automatic alerts for suspicious events or data changes



Low Productivity

Many essential data analysis tasks (e.g. find path) are difficult and time intensive



Buried Content

Cannot quickly focus on key parts of text, audio, video or images



Isolated Data Silos

Data fragmented often on multiple places in various formats



No Actionable Outputs

Unavailable reporting on top of all investigation data and process

Why Insights?



One-solution-fits-all

Combines key features of different tools



Easy to Use

Does not require deep technical skills



Secured Access

All user actions are audited to prevent misuse



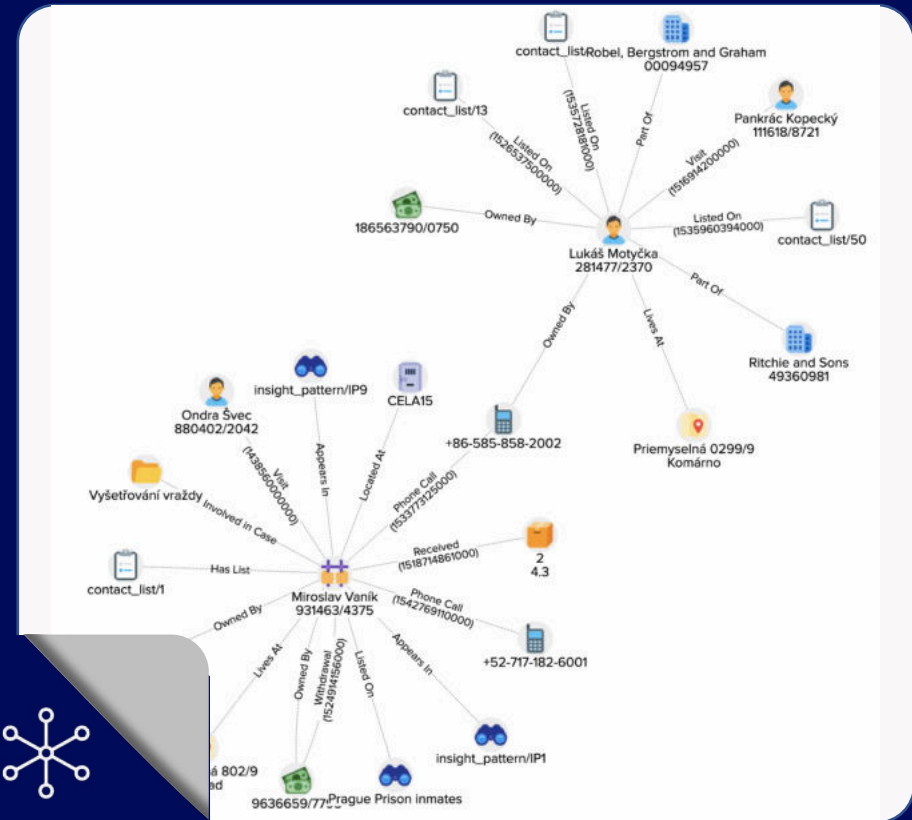
Ready for Future

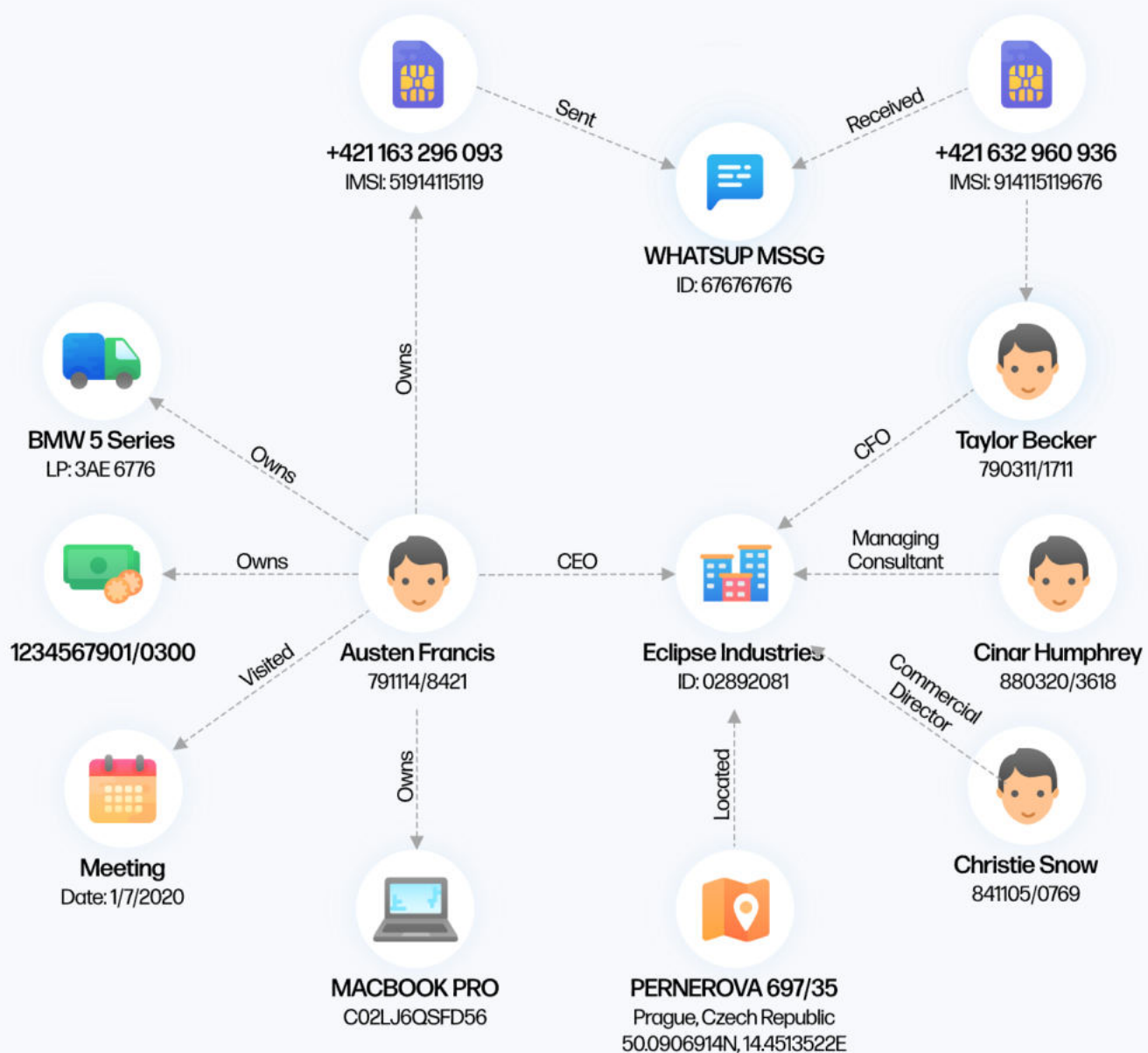
Plug and Play architecture to extend solution with AI modules

We Turn CHAOS Into Meaningful Content

Alice's TOO FREAKING HUGE Client Tracking Spreadsheet

Client	Industry	Email	Phone	Service	Employee	Role	Employee phone	Hours/wk	Hourly rate	Weekly rate
1	Kroger	martin.brewer@kroger.com	452-555-1998	SEO	Catherine Green	Writer	714-555-9364	10	\$75	\$750
2	Dow Chemical	paul.ryan@dowchemical.com	425-555-3374	Content marketing	Randy Owens	Writer	228-555-9907	20	\$75	\$1,500
3	Liberty Mutual	martha.norris@libertymutual.com	733-555-7659	Social media	Linda Herrera	Social Media Manag	320-555-4792	20	\$80	\$1,600
4	Kroger	martin.brewer@kroger.com	452-555-1998	Social media	Linda Herrera	Social Media Manag	320-555-4792	20	\$90	\$1,200
5	21st Century Fox	stephanie.mcdaniel@21stcentury.com	640-555-6958	Content marketing	Diana Pierce	Senior Writer	318-555-0419	30	\$75	\$2,250
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7	Sears	eric.ryan@sears.com	438-555-4232	Video	Matthew Hill	Videographer	232-555-4898	25	\$175	\$4,375
8	General Motors	joe.haynes@generalmotors.com	428-555-9478	Social media	Diana Pierce	Senior Writer	318-555-0419	10	\$80	\$800
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16	Microsoft	frances.mcdaniel@microsoft.com	737-555-2396	Video	Martin Brewer	Marketing Strategist	394-555-5903	10	\$150	\$1,500
17	Hewlett-Packard	charles.owen@hewlettpackard.com	763-555-9748	Social media	Martin Brewer	Marketing Strategist	394-555-5903	5	\$80	\$400
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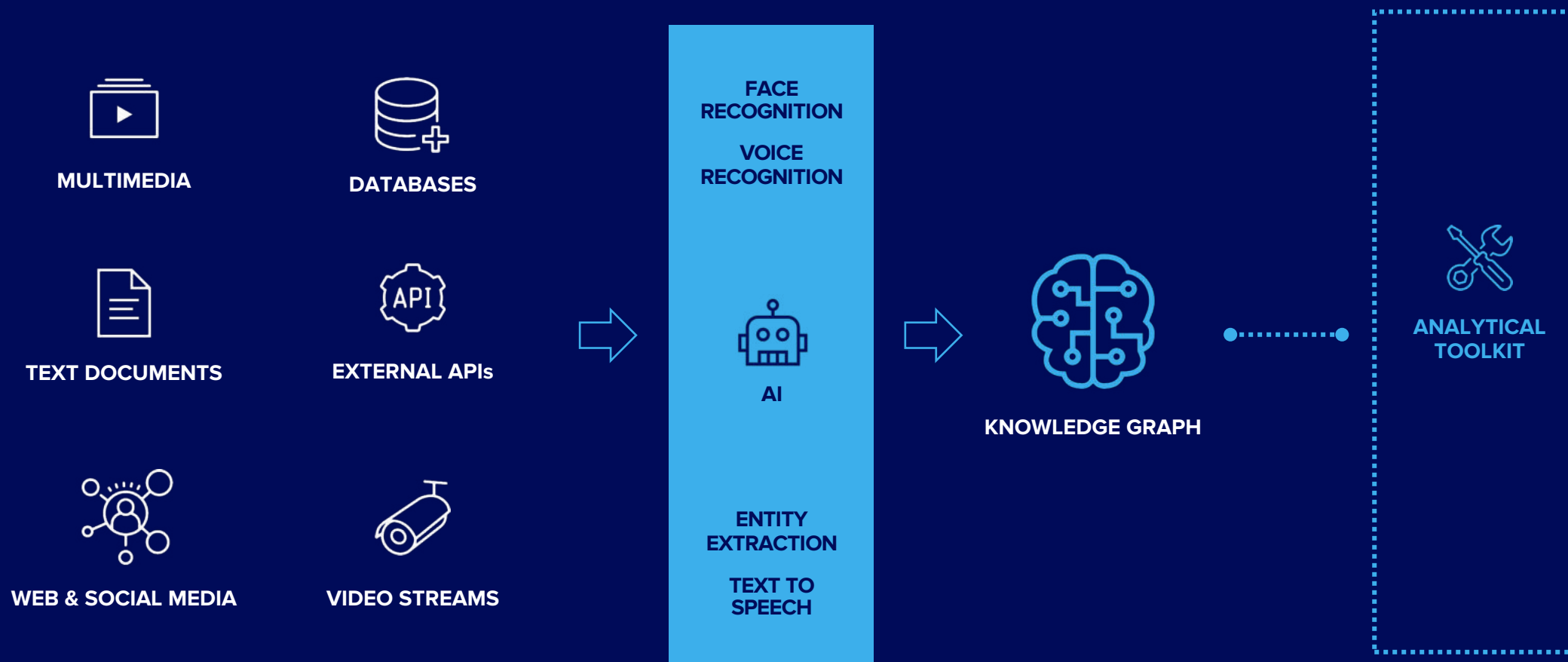




Entities & Links

- Model your data as interlinked entities
- Easy relationship exploration
- Connections can change over time
- Universal schema to model every use case

Centralized Knowledge Management



Key Features

What we can process



Analytical Capabilities



Search

Find all relevant information quickly



Find Path

Verify connection between two entities



Maps

Geospatial search and visualization of entities on a map



Dashboards

Keep track of key data statistics



Patterns and Relationships

Search for suspicious behavior or relationships



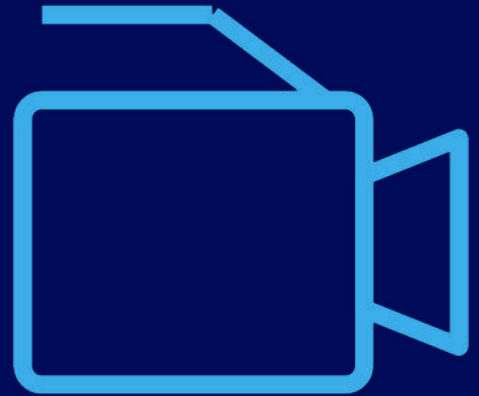
Preview

Display annotated video, audio, image or text documents



Investigation

Live Demo



Object Detail

Show all relevant information for an investigated subject in one place.

The screenshot shows the 'insights' application interface. The top navigation bar includes 'insights', 'Your Work', 'Knowledge Base', 'Analysis Toolkit', and 'Management'. A search bar and user profile 'M' are also present. The breadcrumb trail indicates the path: Catalog → Person → Alsalmay Ismail Yousra.

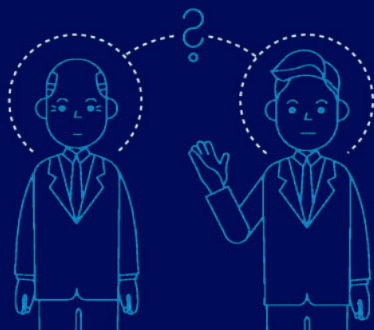
The main content area features a profile card for 'Alsalmay Ismail Yousra' with ID '260159/5953' and a 'COPY TO CLIPBOARD' button. Below the profile is a 'Distant Relationships' section with a 'Select Object Type' dropdown set to 'Person' and a slider set to 3. The relationships are displayed in a grid format:

Name	ID	Count
Aleryan Mouaz Iman	310092/9179	48
Alabady Hesham Souad	221565/5642	46
Almohandes Yousri Ibrahim	790781/6140	46
Almohandes Sobhi Sultan	541971/0071	45
Almuhyery Saher Somaya	151520/4793	41
Alquahatany Rashed Gyhan	511033/4043	41
Alsinawy Salman Yousra	661113/5271	40
Almuhyery Yasser Shereen	330366/5509	39
Alabady Waael Ryham	311177/8696	39
Almuhyery Saleh Iman	670224/3591	38

The left sidebar contains navigation options: Overview, Tracing, Activities (22), Direct Relationships (21), Distant Relationships (selected), Patterns (0), Watchlists (0), and Comments.

Find Path

Verify if there are any connections between specific two individuals or other objects (e.g. Phone numbers).



The screenshot displays the 'Connections' view in Microsoft Dynamics 365 Insights. At the top, there is a navigation bar with 'insights', 'Your Work', 'Knowledge Base', 'Analysis Toolkit', and 'Management'. A search bar and a user profile 'M' are also visible. Below the navigation, the 'Connections' section shows two individual profiles: 'Aleryan Saher Mousa' (361943/9896) and 'Alsinawy Hasaneen Mohamed' (120860/9804), each with a 'CHANGE' button and a settings gear icon. The main area is titled 'Showing Top 25 Results' and lists various relationships between individuals and cases. Each relationship is represented by a row with icons for the individuals and the case, and labels for the relationship type.

Individual 1	Relationship	Case/Event	Relationship	Individual 2		
Aleryan Saher Mousa	Suspect	Case 523B - School violence School violence Completed	Offender	Alsinawy Hasaneen Mohamed		
Aleryan Saher Mousa	Employee	Alshynawy Saaied Shereen 881590/4300	Coerced	Military Action 2019-01-04	Supplied	Alsinawy Hasaneen Mohamed
Aleryan Saher Mousa	Grandparent	Alsinawy Rashyed Mohamed 050714/5432	Occurred At	Conference 2017-06-03	Victim	Alsinawy Hasaneen Mohamed
Aleryan Saher Mousa	georelation/777	Al Qualaaha 4375/9 EG Sharm El-Sheikh	georelation/277	Media Broadcast/Publication 2018-13-10	Supplied	Alsinawy Hasaneen Mohamed
Aleryan Saher Mousa	Grandparent	Alsinawy Rashyed Mohamed 050714/5432	Occurred At	Conference 2017-06-03	Conducted	Alsinawy Hasaneen Mohamed
Aleryan Saher Mousa	Spouse	Alabady Sayed Donya 760156/6210	Controlled	Shooting 2017-23-11	Conducted	Alsinawy Hasaneen Mohamed
Aleryan Saher Mousa	Spouse	Alabady Sayed Donya 760156/6210	Witness	Case 995C - Gene theft Gene theft Completed	Offender	Alsinawy Hasaneen Mohamed
Aleryan Saher Mousa	Grandmother	Almuhyery Ramez Faten 700010/9077	Suspect	Case 523B - School violence School violence Completed	Offender	Alsinawy Hasaneen Mohamed
Aleryan Saher Mousa	Stepmother	Alquahantany Nour Adel 550543/4045	Offender	Case 896A - Confidence trick Confidence trick Completed	Offender	Alsinawy Hasaneen Mohamed
Aleryan Saher Mousa	Grandmother	Almuhyery Ramez Faten 700010/9077	Witness	Case 523B - School violence School violence Completed	Offender	Alsinawy Hasaneen Mohamed

Patterns

Search the unknowns based on your visual description of behavior pattern.



The screenshot shows the 'insights' application interface. At the top, there is a navigation bar with 'insights', 'Your Work', 'Knowledge Base', 'Analysis Toolkit', and 'Management'. A search bar and a user profile icon are on the right. Below the navigation bar, the breadcrumb 'Patterns → Suspects within financial transactions' is visible. The main content area features a title 'Suspects within financial transactions' with a 'UNPIN PATTERN' button. A 'Results' section contains a large, complex network diagram of nodes and edges, representing financial transactions and cases. An 'Editor' button is located below the results. An inset window titled 'Insights Pattern Editor' shows a smaller version of the network diagram and a sidebar with configuration options like 'Pattern Description', 'Properties', and 'When on Display'.

Geospatial

Find every person who lives in the proximity of the residential address of the tracked individual.

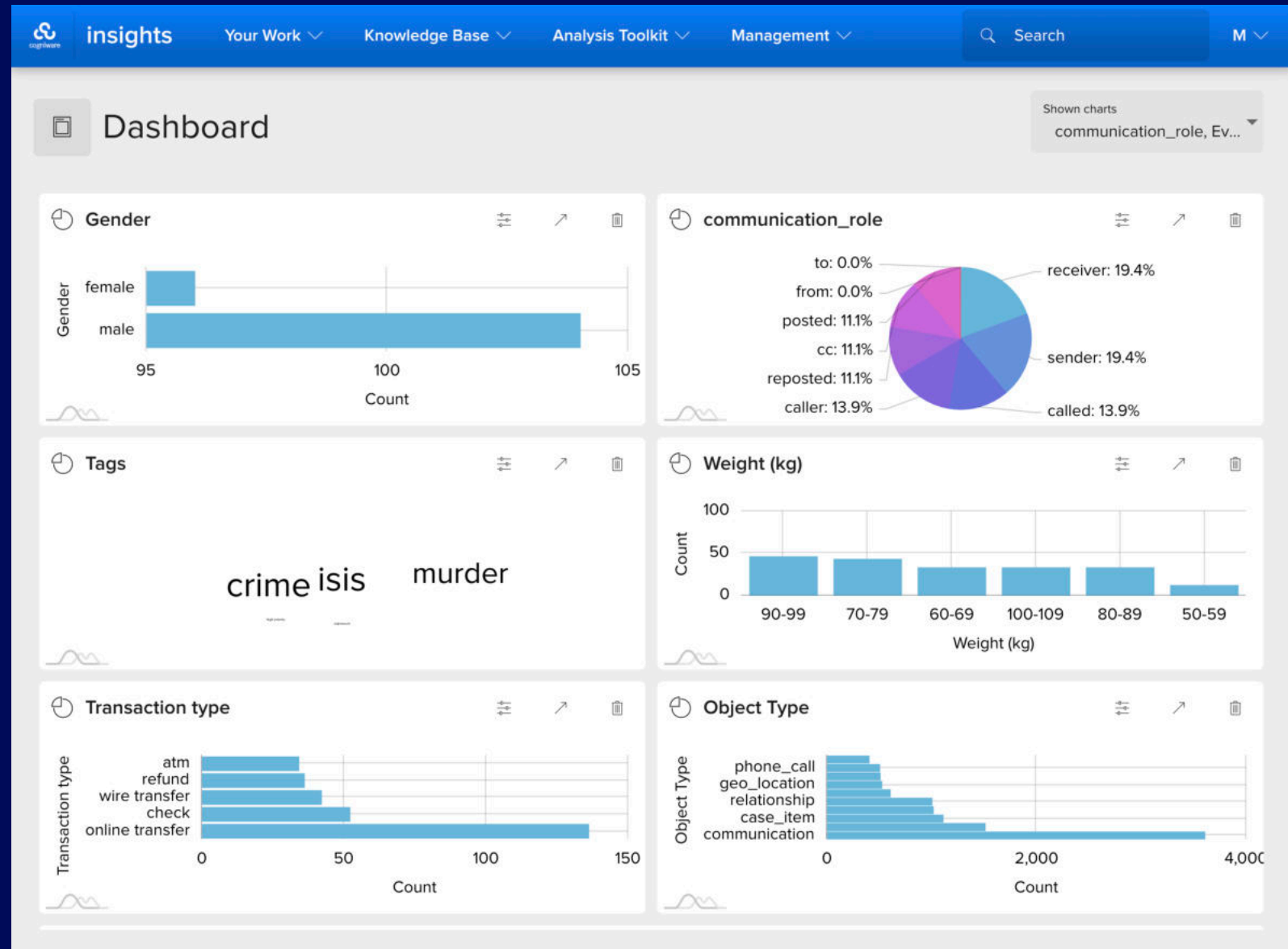


The screenshot shows a web-based geospatial analysis tool. The interface includes a navigation bar with 'insights', 'Your Work', 'Knowledge Base', 'Analysis Toolkit', and 'Management'. A search bar is set to 'Cairo, EGY'. The map displays a search radius of 85 km centered on a location in Cairo. A list of nearby individuals is shown on the right, including:

- Alshynawy Momtaz Faten**, Al Shakria 5305/7, 1.38 km
- Almashary Salman Ragaa**, Kobri Al Azhar 6908/6, 1.38 km
- Alabady Nour Mahmoud**, Al Mahrouki 447/9, 1.38 km
- Alabady Yaaquope Mohamed**, Kobri Al Azhar 371/6, 1.38 km
- Almashary Nour Shereen**, Kobri Al Azhar 529/4, 5.61 km

Dashboard

Monitor and explore data in visual charts on regular basis



Boards

Explore data and produce visually appealing outputs of investigation

The screenshot displays the 'insights' software interface. The top navigation bar includes 'insights', 'Your Work', 'Knowledge Base', 'Analysis Toolkit', and 'Management'. A search bar is located on the right. The main content area is titled 'Boards' and features a network graph with nodes representing individuals and entities, connected by lines indicating relationships. Nodes include names and IDs such as 'Al Qualaaha 945/4 EG Sharm El-Sheikh', 'Almuhery Rashyed Mousa 041327/3105', 'Alshabrawy Ramez Yousef 80469/2057', and 'Almuhery Yasser Shereen 330366/5509'. Relationships are labeled with terms like 'Case Item', 'Link', 'Listed On Watchlist', and 'Transaction link'. A sidebar on the right, titled 'Filtered Expand', provides a list of filters and categories with checkboxes and counts. The 'Case' category is expanded, showing several case folders with their respective statuses and completion levels.

Category	Item	Status	Count
Appears In	Appears In	▼	1
	Bank Account	▼	1
Case	Case	▲	5
	Case 655A - Facial composite	Facial composite Archived	
	Case 660C - Crime in Italy	Crime in Italy Archived	
	Case 131A - Gang population	Gang population Completed	
	Case 226A - Strain theory (sociology)	Strain theory (sociology) Ongoing	
	Case 196A - Ecclesiastical crime	Ecclesiastical crime Archived	
Event	Event	▼	7
Location	Location	▲	2
	Al Qualaaha 945/4	EG Sharm El-Sheikh	
	Darb Saeeda 8218/1	EG Cairo	

Entity Extraction

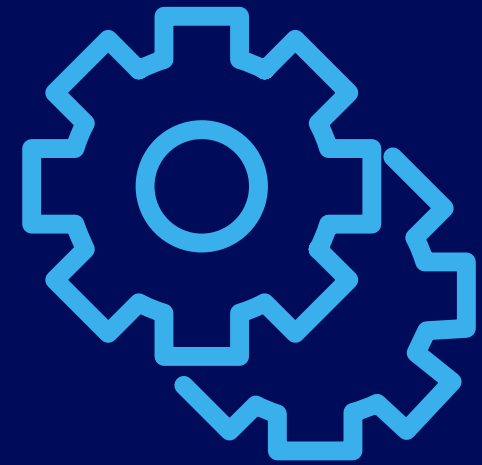
Highlight keywords or phrases in text and link them to known knowledge graph objects

The screenshot displays a document viewer interface for a file named "investigation_report_02012020.docx", created on 14/10/2020 at 08:29. The document content is labeled "annotatedContent" and features several entities highlighted in blue boxes with corresponding icons: "Jack Smith" (person icon), "Cairo" (location pin icon), "football match" (calendar icon), "126 5948" (phone icon), and "+430 728 473 274" (phone icon). A red dashed line is drawn under the phrase "consequat ea non sunt ullamco". The interface includes a top navigation bar with "insights" and various menu items, and a breadcrumb trail showing the document's location within a folder structure.



Architecture

Components Of The Solution





Docker



Angular



**Arango DB
Elastic**



Java

Technical Capabilities

- Enterprise-grade software
- Secured data storage
- Audited access
- Scalable to TBs of data
- Virtualized containers for easy installation
- Reliable with HA/DR



Thank You

