

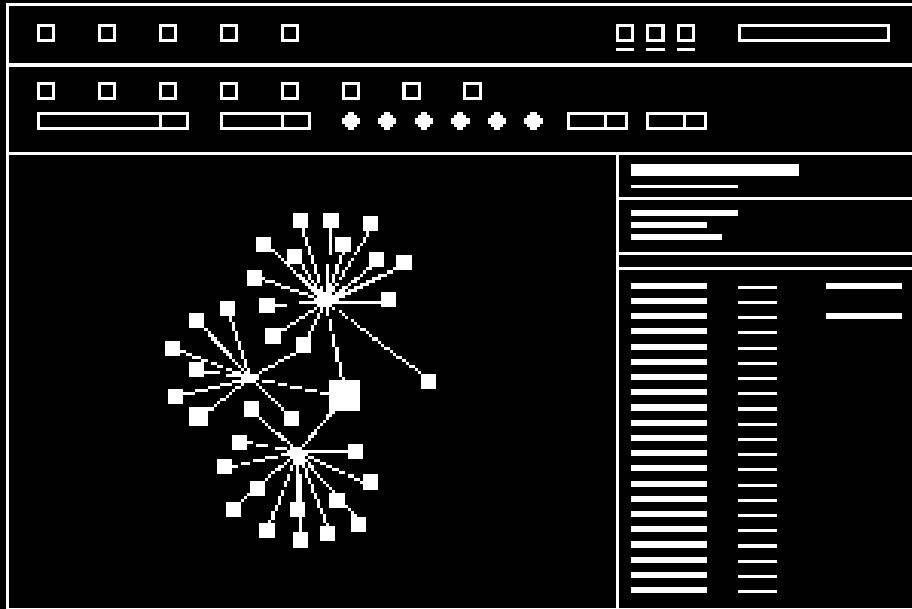
Pitfalls and Possibilities with ILP

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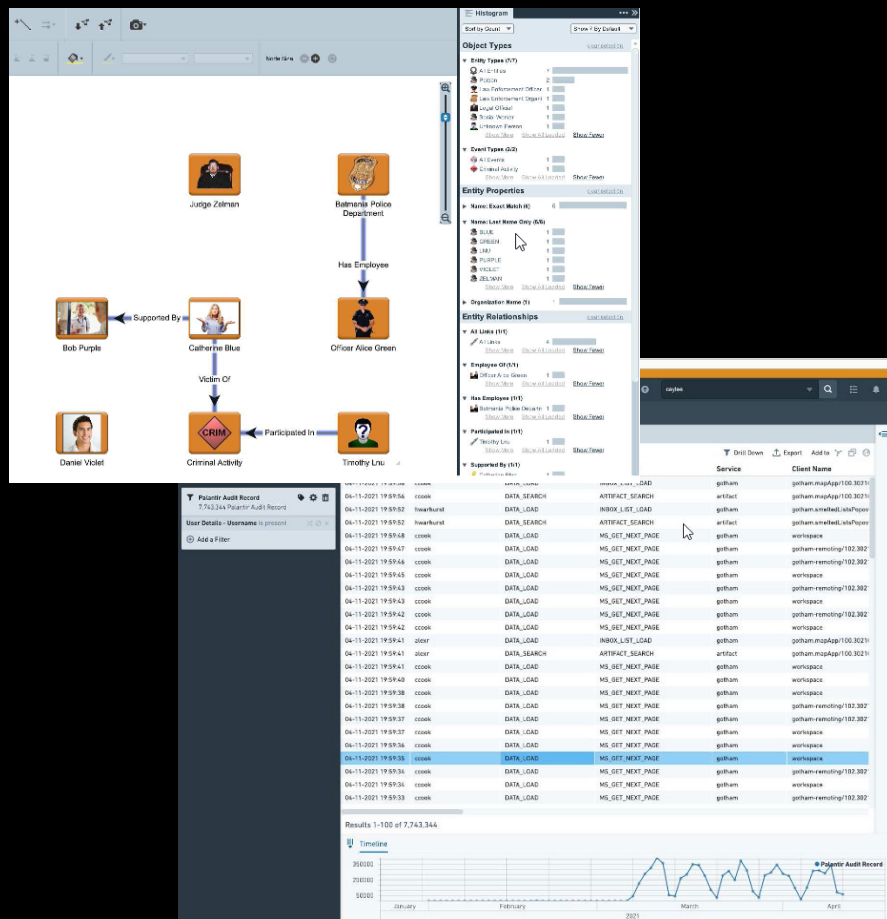
WE BUILD PLATFORMS FOR HUMAN-CENTERED, DATA-DRIVEN DECISION-MAKING



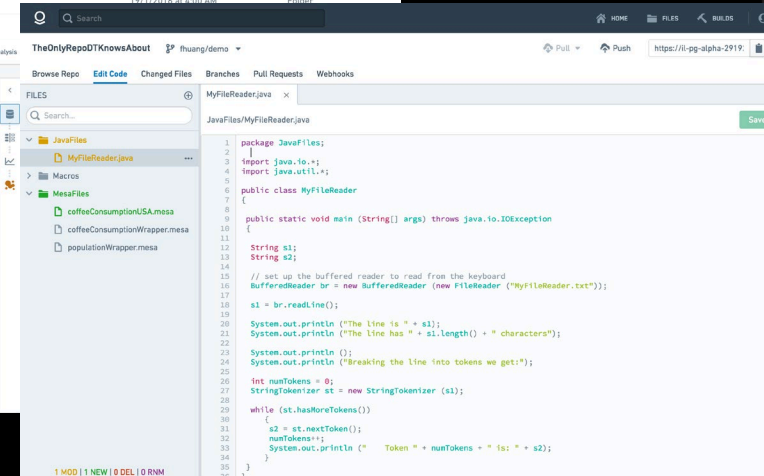
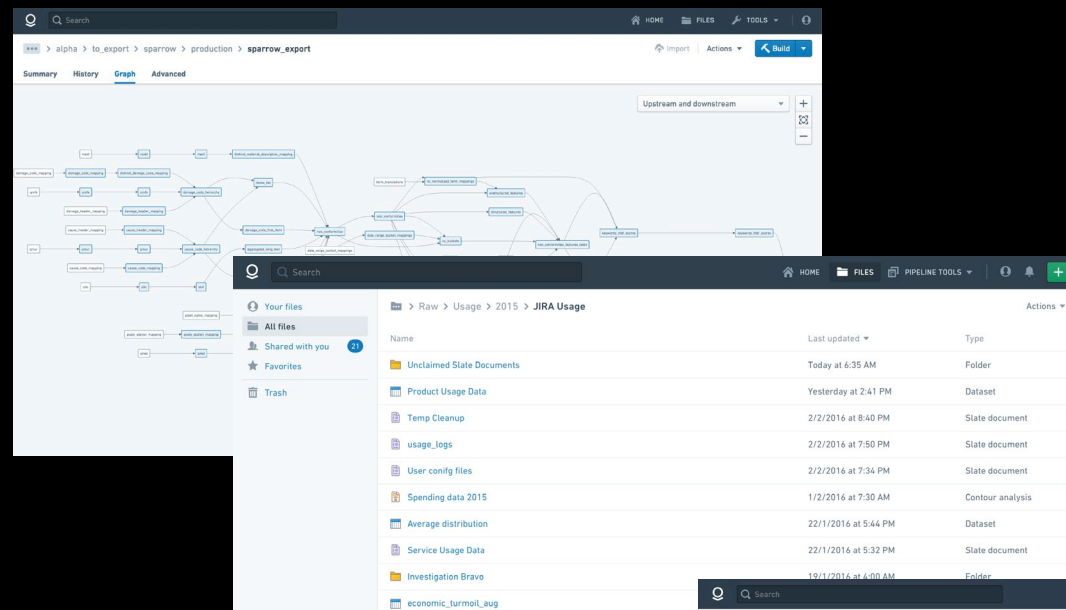
Gotham



Foundry



Gotham



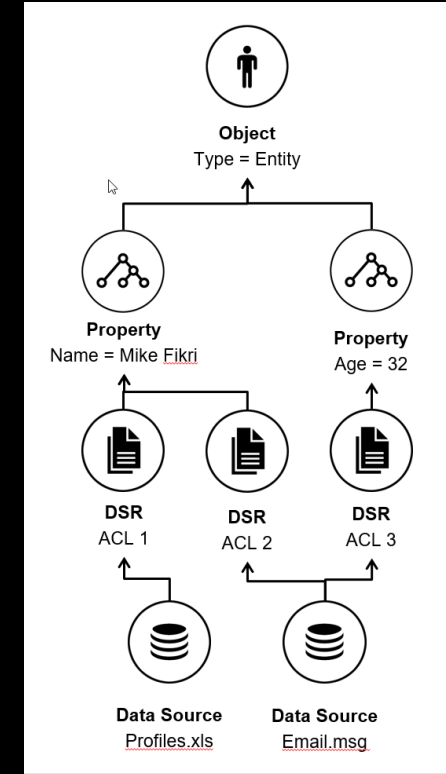
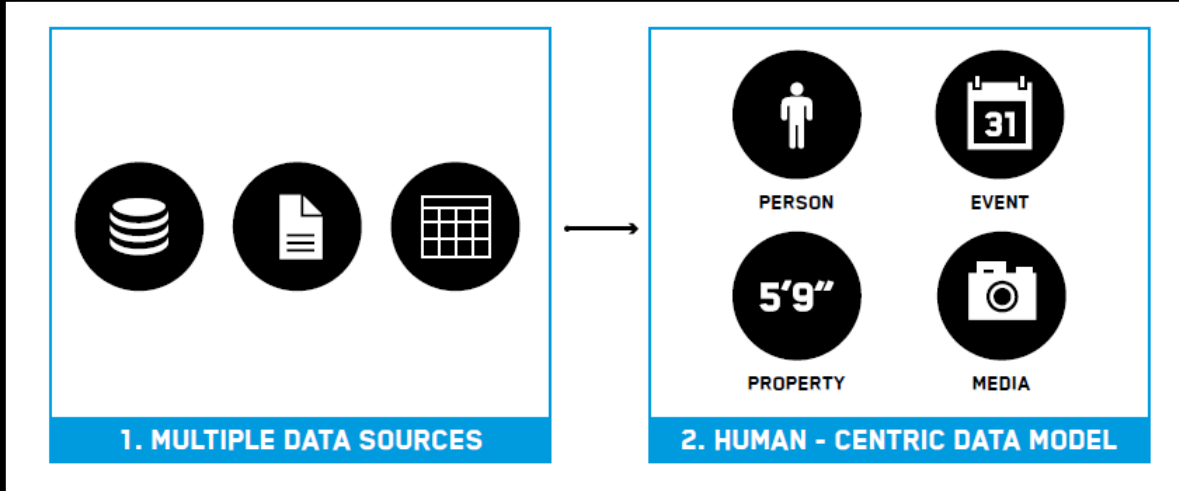
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WORK WITH POLICING AGENCIES IS FOCUSED ON:

- Enabling the integration of disparate data sources already available to law enforcement agencies
- Providing a common analytical environment for law enforcement applications
- Information vetting and data entry workflows
- Advanced analytics including graphical, network, geospatial, trend, and investigative analysis
- Implementing security, access, selective revelation, auditing/oversight, data purging and other data handling standards, policy, and statutory obligations

DATA INTEGRATION & ACCESS CONTROLS



Comprehensive, reliable data integration helps to ensure data accuracy and reliability for sensitive information workflows.

At the same time, integrated data views respect and reinforce access control permissions at all data levels.

ROBUST PERMISSIONING MODEL TO REINFORCE SELECTIVE REVELATION

Create new investigation
Investigations allow you to securely access, create, and collaborate on data. They can be used to limit data access and control who can see your work.

Case ID: 124-111-9871-0001

Description (optional): Investigating potential affiliation of Caylee Accomplish to known extremist organizations.

Labels (optional):

☐ Draft (optional)
Whether this investigation is just for drafting.

Justification (optional): This field can be used to provide a justification for your investigation.

Venus
Audit Logging

Development

☐ False by default (optional)
- Hide additional

Security
Limit data allowed within the investigation. Start from a preset or create custom.

MTS//MNF

Investigation security: Data authorized at MTS//MNF
Manually entered data security: Managed by your organization

Open access
By default, everyone meeting investigation security has the Editor role.
Grant users additional roles by adding them as members below.

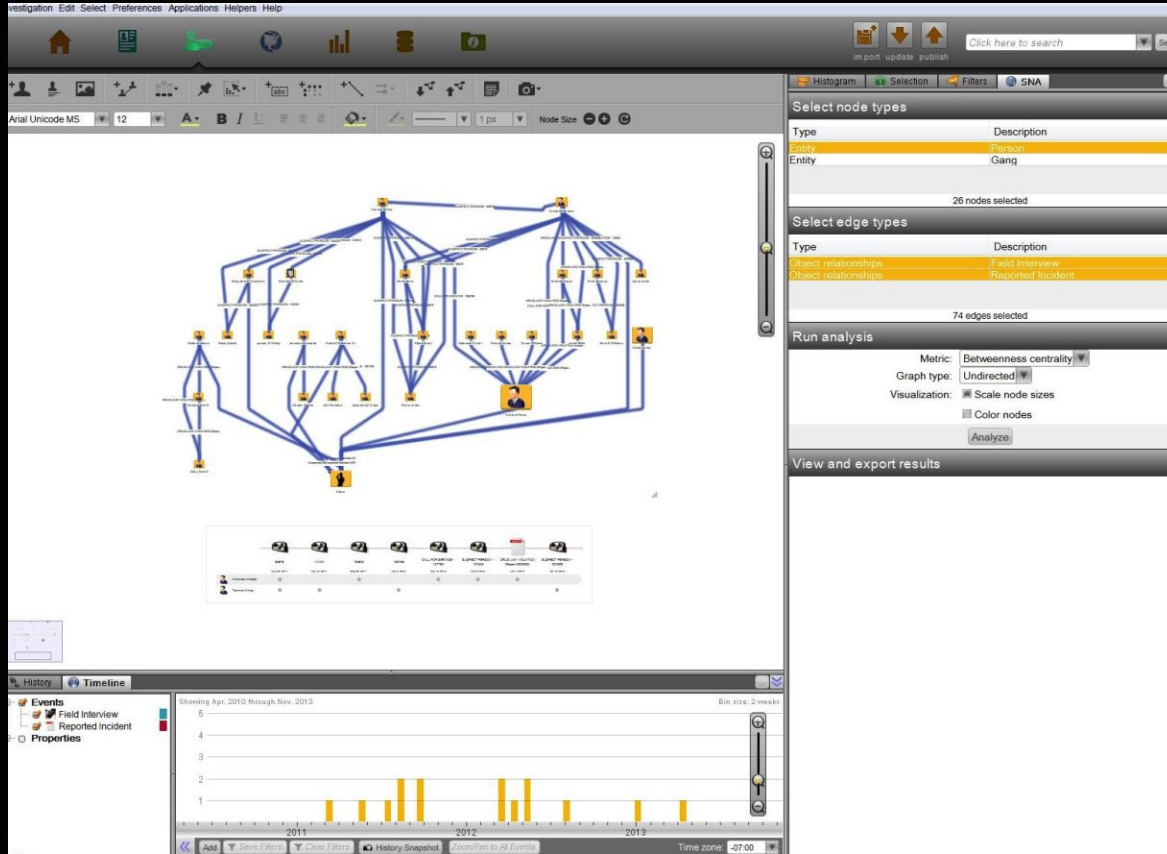
Owner:
Editor: Authorized Individuals

Cancel Create new investigation

Data is made accessible according to specific use case conditions.

Selective Revelation ensures necessity and proportionality in data use.

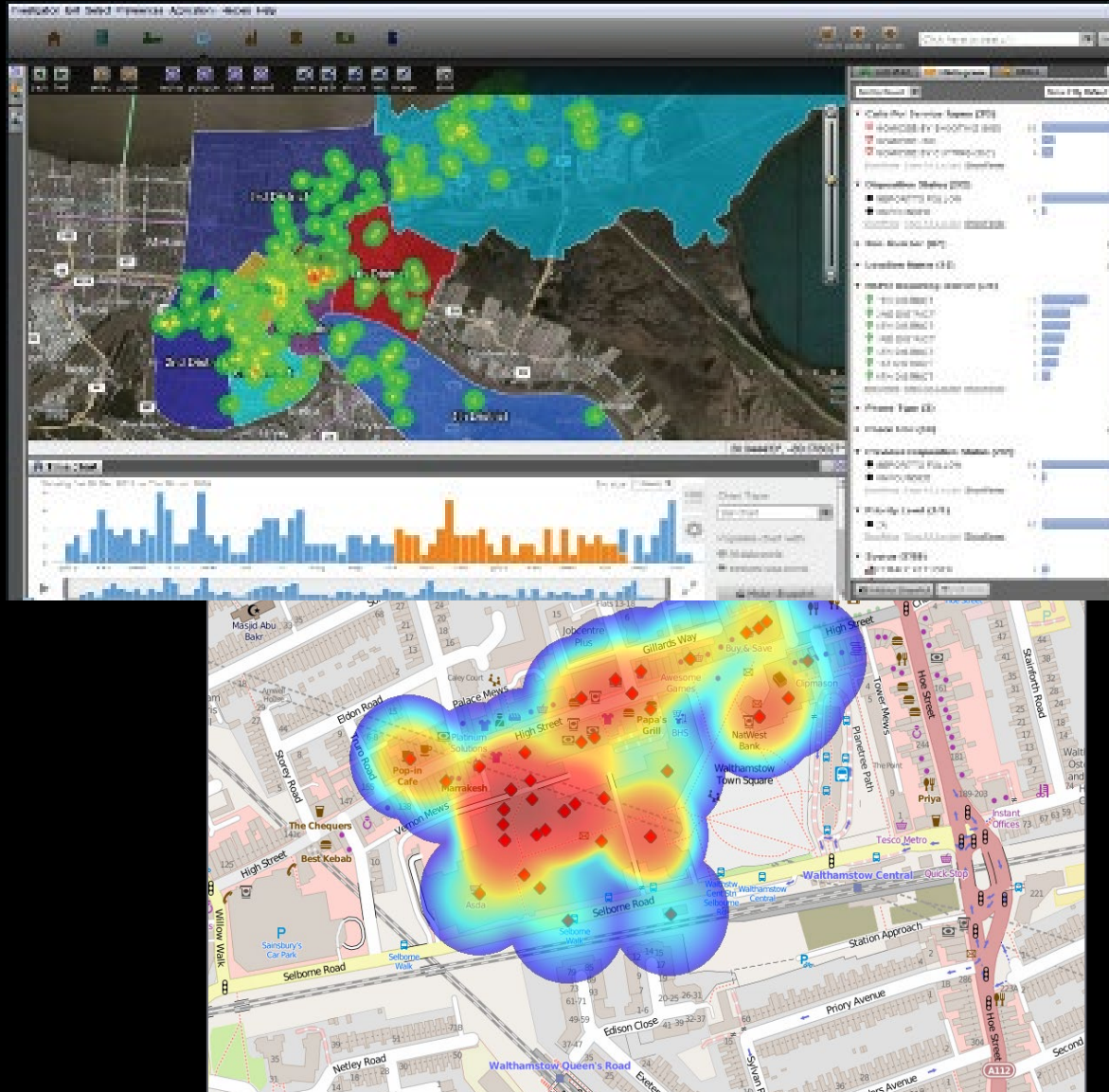
GRAPH ANALYSIS TO SUPPORT CASE DEVELOPMENT AND FORENSICS INVESTIGATIONS



Human-driven analytical workflows support:

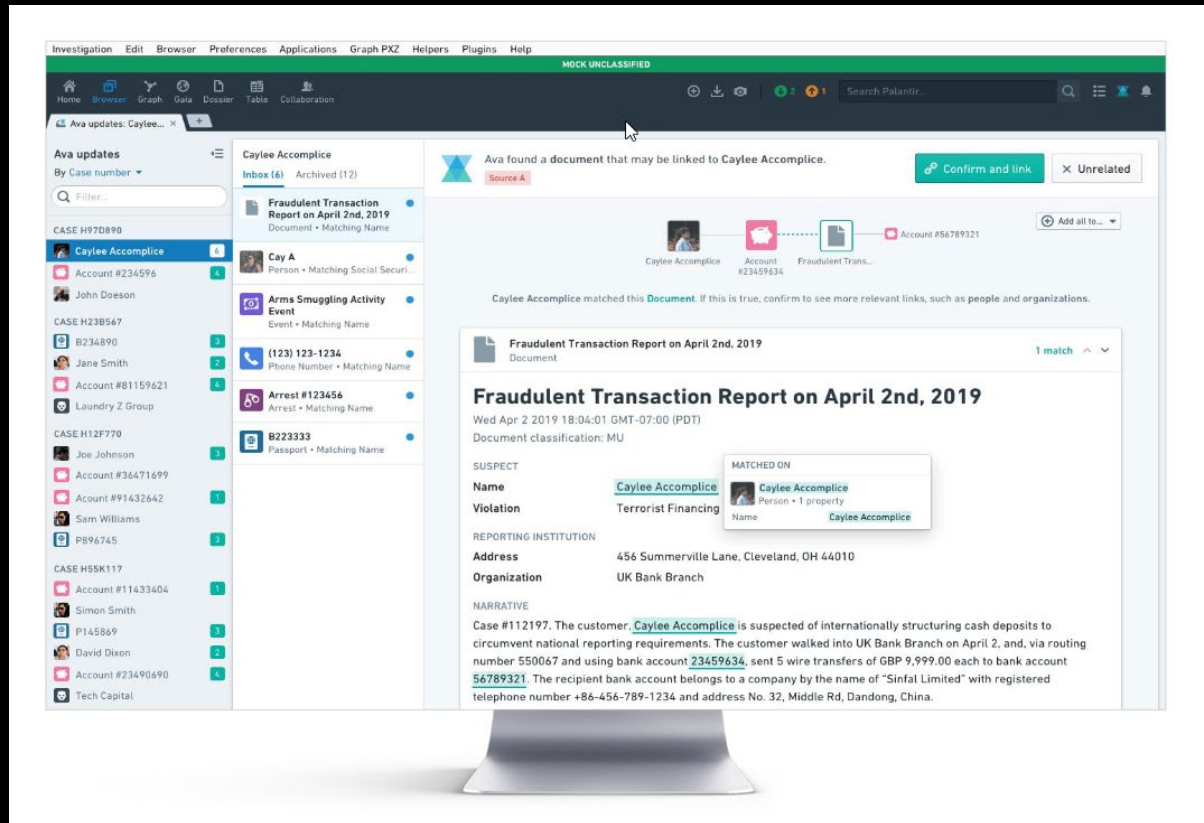
- Criminal investigation casework
- Tactical enforcement
- Discovery of hidden connections in integrated data streams
- Tracking provenance of information to enforce accountability and redress
- Identifying group structure / hierarchies
- Understanding strength of connections and potential structures of influence

GEOTEMPORAL ANALYSIS



Mapping tools provide capability to better understand modalities of historical events, trends, and to interrogate the effectiveness of various forms of intervention.

ALERTING WORKFLOWS

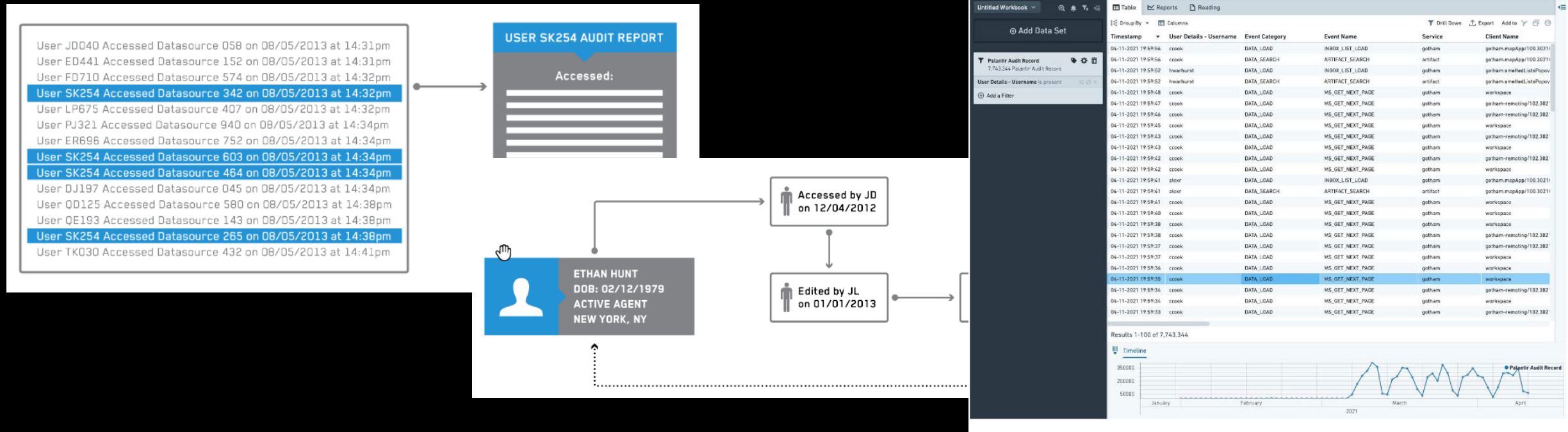


Automating specific complex, repetitive, and computationally challenging parts of data discovery (e.g., identifying various common spellings of names)

Ensuring **human-in-the-loop** review and assessment of surfaced results – Alerts provide suggestions, *not final results*

AUDITING FOR OVERSIGHT & ACCOUNTABILITY

Auditing Analytics provide a backbone for other protections.



Providing policing agencies with the capabilities to:

- Securely administer information sources and applications
- Examine how users interact with sensitive data
- Investigate potential instances of malfeasance

Risks:

- Human beings are *not* numbers
- Vulnerable communities are at particularly high risk of stigmatization, discrimination, and disparate impact
- Underlying data may carry sensitivities, biases
- Mosaic effect presents novel challenges to policing technologies

Mitigations:

- **Human-in-the-loop:** preserve the role of subject matter experts to use their training, expertise, judgment and moral intuitions
- **Automation tradeoffs** need to be well understood, explicitly documented, and (where possible) addressed
- **Community engagement** is essential
- **Re-purposing limitations** to ensure that applications are not taken out of context
- Data minimization, proportionality, security, access controls, and accountability should be fundamental aspects of analysis and applications

Other Mitigations:

- Recognizing that technology alone will not solve the challenges of policing.
- Organizational / institutional practices must be married with technology capabilities, while tradeoffs and challenges are studied and understood.

In Intelligence-Led Policing, technology provides a set of tools for managing and using data. Humans ultimately provide the real intelligence.



Thank you!

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