TLDR: S.A.I.

Situational Awareness Interface

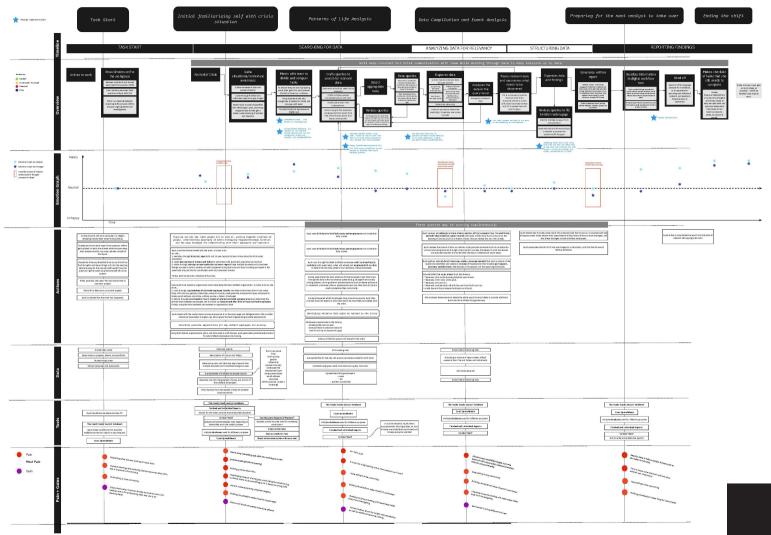
Amanda Williams, Liz Chen, Riley Walman



NYAH

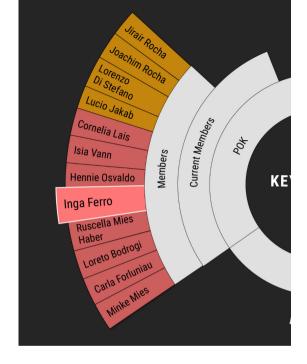
SENIOR SEARCH AND DISCOVERY ANALYST

Use Case: Crisis Situation



IDENTIFIED PAIN POINTS

- > Difficult to get a **case overview** with the amount of initial available information in multiple **windows or tabs**
- > Strenuous to immediately **identify anomalous activity** in the case
- > Copious amounts and iterations of queries need to run in short period of time



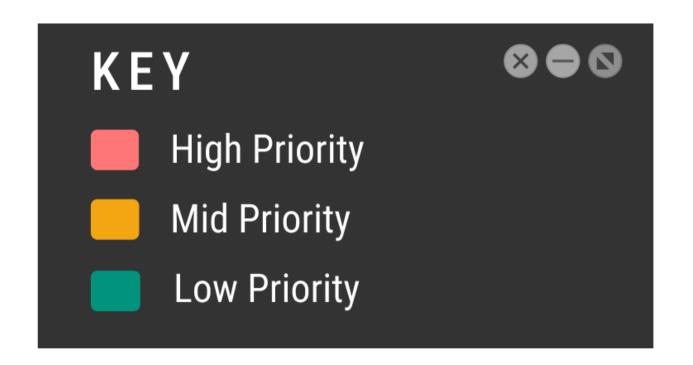
SAI

SITUATIONAL AWARENESS INTERFACE

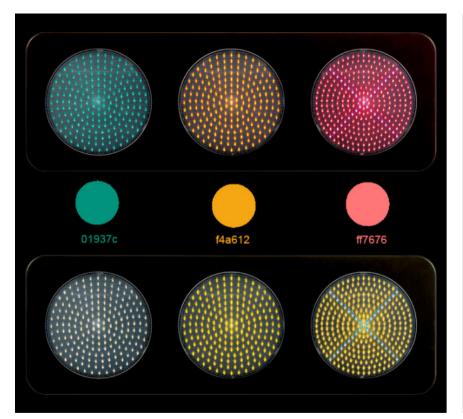
Gain situational awareness quickly in one interface

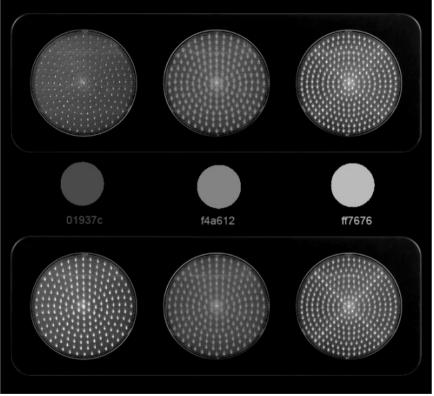
As Surge Team member, Nyah has received instructions to **investigate a crisis** in Kronos where **GASTech employees have been kidnapped**.

The early stages of a surge are often very chaotic, so Nyah needs to efficiently **gain contextual awareness** of the event in order to assess the situation and discover the location of the missing employees and how to get them home.



AI PRIORITIZED KEY: Priority is established by ML based on what the analyst needs to know to efficiently gain contextual awareness.





ACCESSIBILITY: Interface colors are accessible for analysts with visual impairments.

SAI



AI PRIORITIZED CONTENT: All customizes tree map display of patterns based on key prioritization and also uses scale as a secondary identifier of priority.

TEXTUAL SUMMARY

800

OVERVIEW

5 GASTech Employees were kidnapped on 1/20/14 at the celebration to commemorate the IPO of the company. The celebration was to start at 10:00 am, and did. Afterwards, the CEO and executives were to go to the Capitol and meet Kapelou, the Minister of Health. At 10:18, the fire alarm went off at the GAStech headquarters. There didn't appear to be any fire, but the fire department arrived. Questions were asked when the National Fire Department arrived and there was speculation about a possible bomb threat. Finally, at 11:46, the building was clear to enter, and it was declared a false alarm.

The hostages have yet to be identified.

CUSTOMER INTEREST

Customer need analysis suggests bringing law enforcement up to date on the **current organization of the POK** and how that organization has changed over time, as well as to **characterize the events surrounding the GASTech disappearance**.

SUPERVISOR

As the leaders of GAStech celebrated their new-found fortune as a result of the initial public offering of their very successful company, several employees of GAStech went missing. The People of Kronos (POK), originally an environmental concerns organization which has evolved into a terrorist group, had a rally happening at the same time as the kidnapping.

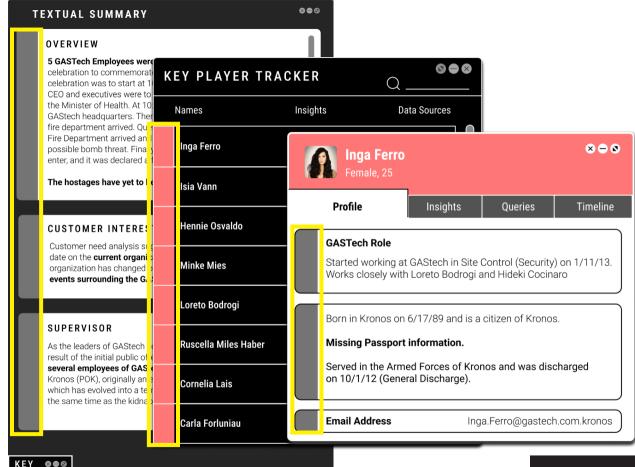
SUMMARY: Al generates summaries from all case data to provide an overview of the case.

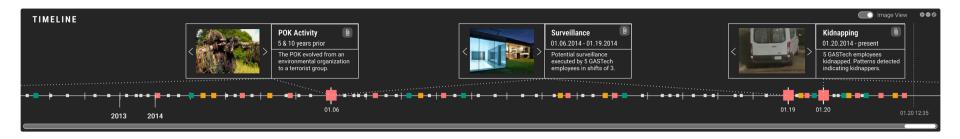
It also sifts through customer interest analyses to incorporate customer interest trends.

The supervisor summary provides the human perspective from the analyst's supervisor.

REORDERING:

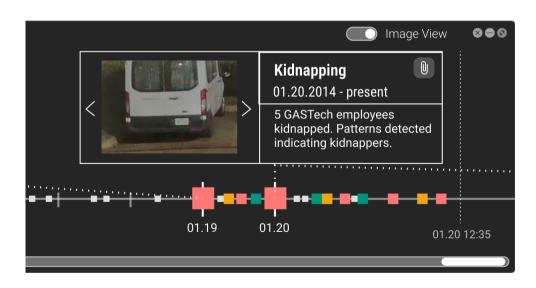
Though the initial hierarchal order is determined by AI, analysts are able to reorder module content to their preferred hierarchy, which AI takes as feedback.



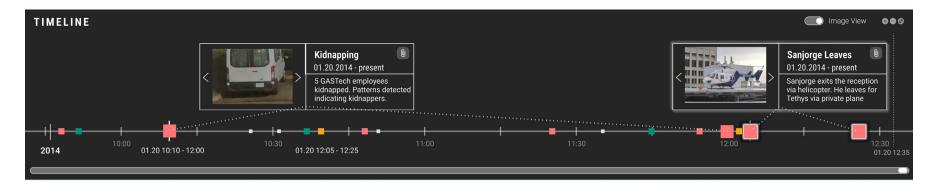


INTERACTIVE TIMELINE:

Each square is an event relating to the crisis. Analysts can scroll though the timeline to see major events in the case.

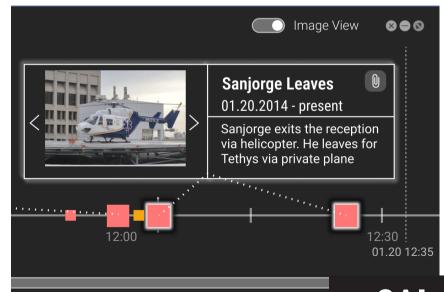






TIMELINE PRIORITIZATION:

Al highlights high priority events important for the analyst to gain situational awareness based on their preferences/feedback.



SA

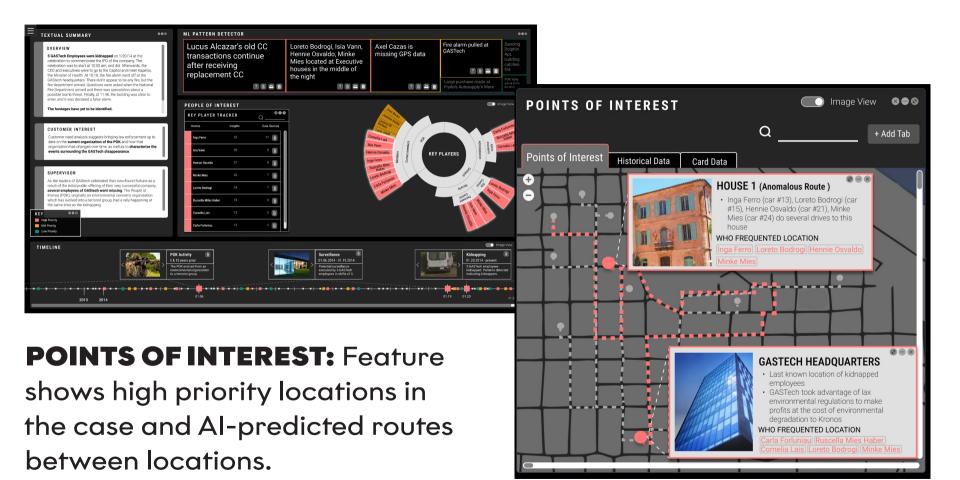


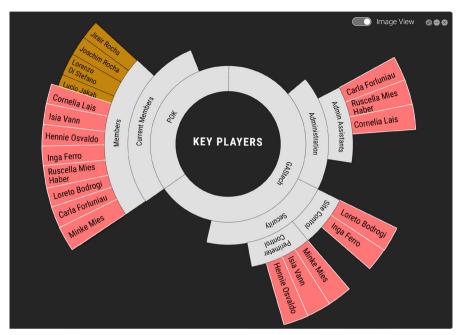
- Summaries
- ML Pattern Detector
- People of Interest
- Timeline
- Points of Interest
- Reports
- Uncategorized Data
- Unparsed Data
- Dark Mode



CUSTOMIZED DISPLAY: Analyst can adjust Al-selected features using the menu.







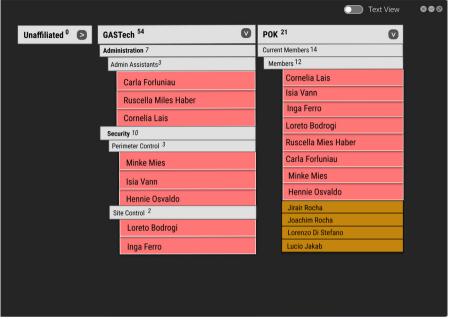
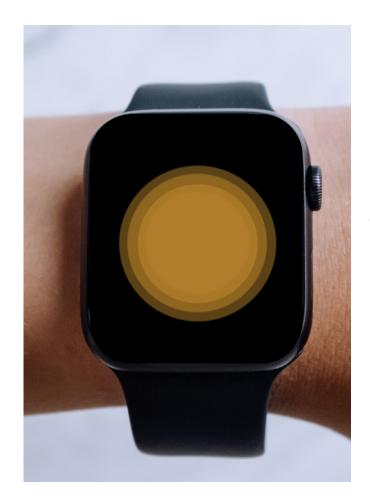
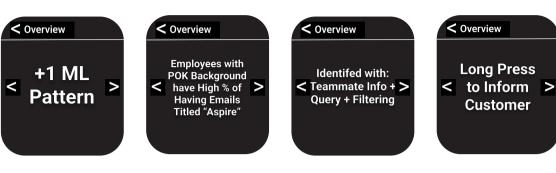


IMAGE VIEW TEXT VIEW

IMAGE VIEW VS. TEXT VIEW: Offers an alternative view for analysts who prefer textually-presented data.







WATCH NOTIFICATIONS:

Unobtrusively keep analysts up to date on the situation.

Overview

Long Press

Customer

WIDER IMPLICATIONS

- > Summaries provide top-level overview while other features equip analyst to drill down into specific data points
- > Enables the analyst to intuitively understand the prioritization system via color and hierarchy
- Using ML provides rich opportunities for identifying and responding to anomalous behavior in the case

REFLECTION

- > How could SAI incorporate cross-collaboration between analysts?
- In addition to using the watch's proximity sensing to enhance data security (monitor locking), how else might the watch be leveraged to support security and awareness?
- > In addition to the 24-hour updating cycle, how might SAI streamline the reporting process?