Computer Vision Pipeline Detects Object of Interest

Clue found

Plan approved Enact task

LLM 0 Based Clue Analysis Pipeline

VLM

Captioner

| Object Description | What? | Where? |
| | What Condition? | |

A pair of broken glasses with a cracked lens on a rock.

RAG LLM

Relevance Assessor

| Relevance | Relevance rationale |

<u>High</u>: The broken glasses could belong to the lost person as he was last seen wearing glasses.

RAG LLM

Task Planner

| Action | Action rationale |

<u>Search surrounding area</u>: The broken glasses suggest potential injury or disorientation, warranting a search of the surrounding areas.

RAG LLM

Triager

| Enactment decision | Rationale |

<u>Send task to drone Pool</u>: Current drone is on high-priority task & retasking reduces critical coverage.

Human-on-the-loop

Prohibit autonomous action. Send to human.

Request Human input

Proceed

POA (c)
Probability of a person being at location c

ROI

Cognition Envelope