**Debriefing Reporting, Evaluation, Analysis and Display System**

**(DREADS)**

The Debriefing Reporting, Evaluation, Analysis and Display System (DREADS) is a software prototype that is intended to help Phenom analysts and investigative agents corroborate free-text reporting of various Unidentified Anomalous Phenomena (UAP) events and other sightings through multi-source data fusion and to help orchestrate multi-discipline collection against those events and threats; in order to generate actionable information which can be used to better understand UAP anomalous phenomena.

The operational premise behind the DREADS concept is that a significant portion of sighting and event reporting contains useful information that an Artificial Intelligence might deduce regarding future events; provided this reporting can be corroborated by other source reporting and turned into usable information using related high-accuracy data.

The current problem is that the free-text message-driven, multi-source data fusion and collection process is complex and labor-intensive and, as a result, a significant amount of UAP reporting fails to get thoroughly investigated. This unfortunately creates an unsatisfactory situation wherein some amount of activity that is initially reported does not get turned into usable information, despite the fact that corroborating evidence of the activity could be found using other sources, to include highly-accurate geospatial data. Thus, the ultimate objective of the DREADS initiative is the development and employment of a system that allows a smart AI to assists Phenom analysts to “follow every lead” regarding UAP event sand sightings; even in limited staffing situations.

The DREADS concept revolves around the “digitization” of potential anomalous information contained in Debrief reporting and the creation of a digital Case File for each reported sighting or event. The digitized Critical Information Indicators (CIIs) of a UAP sighting or event provides information that may include the reported names of the involved individuals, place names of the reported activity location, equipment reportedly being used in the activity, site location, etc.

The DREADS stores the digitized CIIs in a data base which is used to drive automatic searches for exact matching, similar sounding, and geospatially-related, multi-source Information contained in other free-text messages, as well as in geospatial data files and remote data servers. DREADS data searches occur after the initial, user-directed “digitization” of the CIIs contained in the UAP report has been accomplished and an associated digital Case File has been created and is automatically executed thereafter as new information arrives in the system.

For high-accuracy data, DREADS contains tools to assist in the precise manipulation of the relevant data, the automated analysis of the data attributes and the automated determination as to whether any of the high-accuracy data is directly relevant to the Case File being investigated.

User awareness of potential connections between multi-source information and the CIIs of the digital Case File of interest that are discovered by DREADS during its data searches is accomplished via automatically generated user alerts and then elaborated upon via textual explanatory displays. If the Phenom analyst believes the system-discovered connections are valid (or potentially valid) DREADS associates the discovered data (and the underlying reporting) to the digital Case File of interest. (Think Ancestry.com).

Using the techniques described above, DREADS accomplishes computer-assisted corroboration of Anomalous reporting of a sighting or event via multi-source information data fusion. Furthermore, as part of the DREADS AI fusion process, high-accuracy geospatial data may be discovered which can be used to support the undertaking of further investigations to predict other anomalous activity.

In addition to multi-source information fusion support functionality, DREADS contains capabilities that facilitate the efficient tasking and monitoring of Sensor activity (generated by both system users and external organizations) for better collection activity represented in the digital Case Files. Currently these capabilities include the automated generation of collection recommendations (sensor placement) based on Case File-specific data holdings.

Given that all the key elements of an UAP analysis Case File are represented in a database within DREADS, the system can generate textual and graphical displays that provide insight into possible UAP being tracked; to include their CIIs and their geographic positions.

Core functionality of the DREADS concept has been successfully prototyped during FY23 and never demonstrated in this environment.