

**Fact Sheet:                    Artificial Intelligence Front End Learning Information Execution (AI FELIX)**

**Background:** Ten hours a day, multiple military staff at Headquarters Supreme Allied Command Transformation (HQ SACT) sort and review hundreds of pages of documents requiring classification, distribution, and consolidation into the Command Read Board (CRB). The current process is a drain on time and resources. As a transformation organization, HQ SACT is applying artificial intelligence (AI) and machine learning to solve this communication and knowledge sharing challenge.

The Tasking and Knowledge Management Branch, Capability Requirements Division, Analysis of Alternatives and Operational Experimentation branches, and NATO Communication and Information Agency collaborated to develop an appropriate technological surrogate that will enhance and evolve the existing CRB capability.

**Mission:** The Artificial Intelligence Front End Learning Information Execution (AI FELIX) is an experiment that leverages artificial intelligence, machine learning, and advanced analytics technologies to reduce staff effort assigned to process daily incoming correspondence received at HQ SACT.

**Goal:** The goal of AI FELIX is to automate the extraction of metadata and the distribution of this information across the organisation. AI offers significant time-savings as it can process in seconds that which takes humans hours, as well as potentially increase the accuracy of information. Moreover, AI FELIX is a modular and agile tool that can be easily adapted to other NATO organisations, it is estimated that it has the potential to reduce the workload of up to 40 military personnel Alliance-wide.

**Capability/Deliverable:** The AI FELIX project demonstrated the feasibility of applying AI in the NATO SECRET Wide Area Network. AI has consistently delivered highly accurate results with an average processing time of 27 seconds per document compared to the 5 to 10 minutes required by a person.

In addition, the current development phase includes fielding an operational Graphical User Interface that will allow users to link the AI FELIX machine with NATO's information and knowledge management tools, such as EDMS, Tasker Tracker, and the NATO Information Portal. The Graphical User Interface enables dynamic learning, a process that allows the AI to improve its predictions, by using feedback and responses from users. A second dynamic learning experiment will enable the AI to send HQ SACT users a topic-tailored daily digest of documents from the CRB, thereby reducing clutter from NATO personnel mailboxes and increasing cross-functionality across different departments.

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