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WHAT IS ARTIFICIAL INTELLIGENCE "(AI)? rtificial Intelligence' according to 15 U.S.C.

> A machine-based system that can, for a given set of human-defined objectives, make predictions, recommendations, or decisions influencing real or virtual environments

Artificial intelligence systems use machine- and human-based inputs to

- x Perceive real and virtual environments
- x Abstract such perceptions into models through analysis in an automated manner
- x Use model inference to formulate options for information or action

OVERVIEW OF AI CATEGORIES

Artificial Narrow Intelligence (ANI): also called 'Weak AI', ANI is designed and trained to perform specific tasks. It has ability to enable robust applications such as Apple Siri, Amazon Alexa, Microsoft Copilot, OpenAI ChatGPT, Google Bard, IBM Watson, and self-driving cars

Artificial General Intelligence (AGI): aims to create machines that can match human intelligence in terms of self-awareness, problem-solving ability, learning, and future planning

Artificial Super Intelligence (ASI): would exceed the cognitive capacity and competence of the human brain. Although the idea of V X Strong AI exists, there is currently no practical application of it in use

AI IN THE CONTEXT OF THE EMERGENCY SERVICES SECTOR (ESS)

AI applications can positively enhance ESS work on the ground by improving efficiency, accuracy, and decision-making processes. There are various key areas where AI can be impactful such as call prioritization and dispatch optimization, predictive analytics and risk assessment, real-time patient monitoring and triage, natural language processing for enhanced communication, image and video analysis for medical diagnosis or policing, and robotic assistance for search and rescue.

AI USE BY THE ESS

A growing number of Law Enforcement, Fire and Rescue Services, Emergency Medical Services, Emergency Management, and Public Works organizations have recognized the benefits of integrating AI applications and tools into their operations. By leveraging AI technology, these organizations enhance the efficiency, accuracy, and decision-making processes of their respective departments, ultimately helping them better serve their communities and keep people safe.
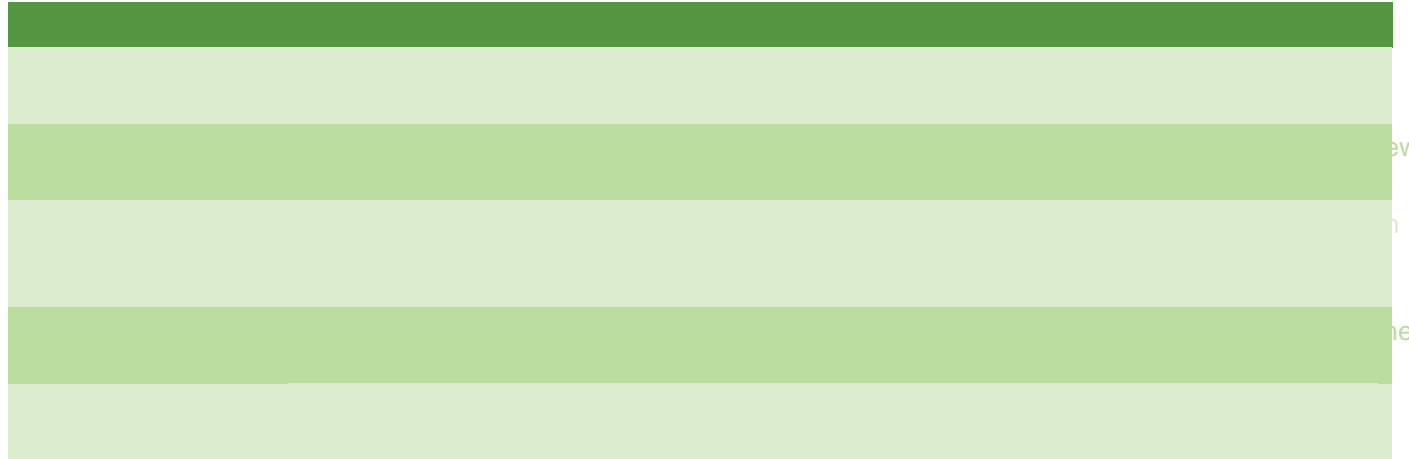
TOOLS, TRAINING, AND PROGRAMS

DHS, Artificial Intelligence Use Case Inventory. This inventory contains or classified and non-sensitive AI use cases. dhs.gov/data/AI_inventory

CISA AI Use Cases. This webpage provides an overview of examples and use cases of AI efforts that are underway at CISA. cisa.gov/ai/cisa-use-cases

U.S. General Services Administration's AI Community of Practice (AICoP). This resource provides training sessions intended to introduce concepts and theory around AI to empower federal employees with awareness of the technical concepts underlying AI. coe.gsa.gov/2023/09/06/ai-update-6.html

NIST Trustworthy & Responsible Artificial Intelligence Resource Center (AIRC). The center supports and operationalizes the NIST AI Risk Management Framework (AI RMF 1.0) and accompanying Playbook and will grow with enhancements to enable an interactive, role-based experience providing access to a wide range of relevant AI resources. airc.nist.gov/home

System Assessment and Validation for Emergency Responders (SAVER) Program. DHS Science and Technology