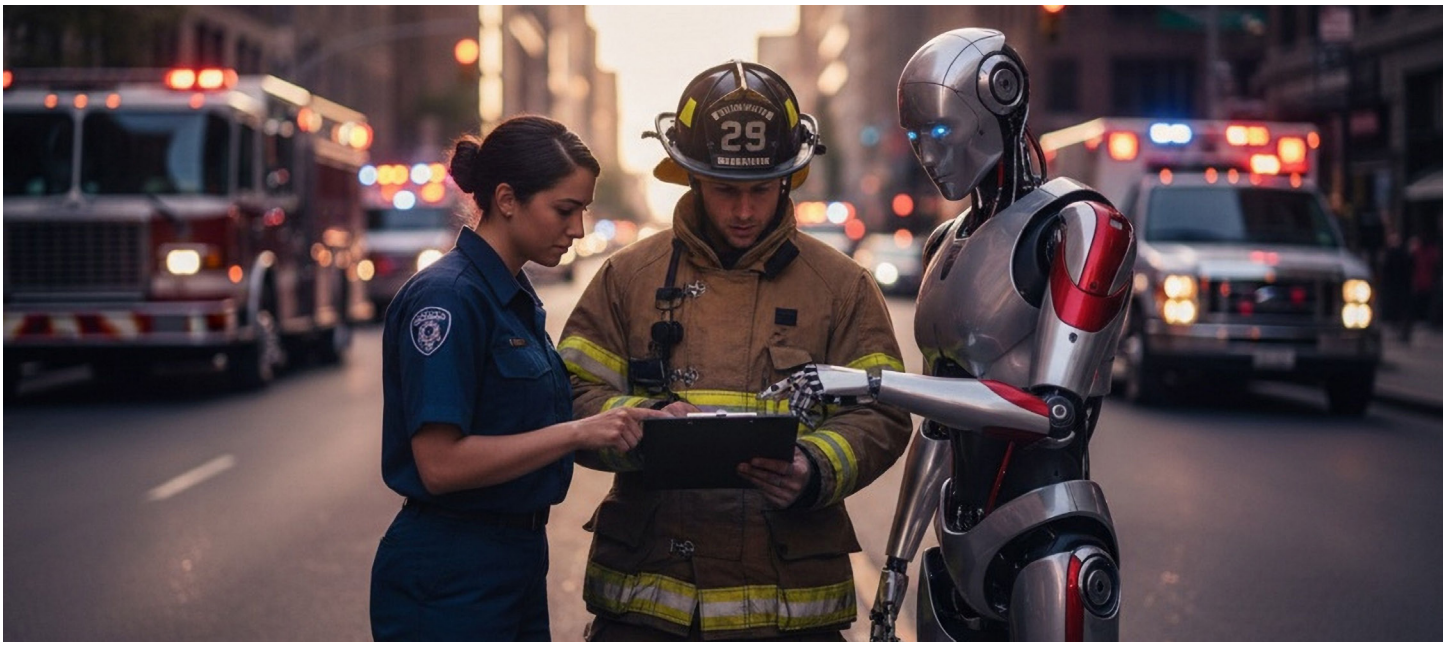
STREAMLINING EFFICIENCY IN FIRE AND EMS WITH ARTIFICIAL INTELLIGENCE

What was once a distant thought of the future, Artificial Intelligence (AI) is here, and it is time to prepare for progress. From automating routine documentation, analyzing images, enhancing response or safety code enforcement, and forecasting the future, AI can help emergency service organizations with more forward-thinking decisions, instead of reactive ones.



How will AI impact day-to-day operations that were once so familiar?

Many leaders in fire and EMS are cautious of the newly developed tool—but it is just that. AI is a tool that can be utilized to make routine tasks easier and streamline your service to your communities.

By integrating AI into daily operations, you can provide faster, smarter, and more efficient care to those in need. Here are a few examples of AI at work.

Routine Task Management:

A "data driven" member of your crew, AI is automating routine tasks. Perhaps everyone's least favorite part of the job is documentation. AI can simplify this task by transcribing information and suggesting certain data inputs. Faster, more accurate documentation allows for operational efficiency and quicker turnaround times, allowing EMS agencies to focus on what matters most: quality patient care and serving the community.

Effective Incident Management:

Hydrant location, building features, access points, and structural components are critical elements needed for efficient incident management. AI software can be used to review building plans and gather information when responding to a building fire. Using AI to review all building plans for public buildings, such as for churches or schools, can help firefighters develop multiple response plans for different disaster scenarios to ensure better

preparedness and more efficient responses.

Data Management & Collection:

AI software can track vehicle maintenance to help to identify failure points before a breakdown occurs, improving overall operational efficiency. Similarly, AI can provide paramedics with the opportunity to instantly search for information that is related to medical management or contact a physician in real time, allowing providers to make more informed decisions, particularly in critical situations. Plus, AI can search for references to develop Standard Operating Procedures, replacing hours of research.

Important Reminders:

AI chatbots and machines are designed to mimic human intelligence and can provide instant recommendations or research related to any topic. However, keep in mind that content that is generated from AI sources potentially is open to plagiarism-even if not intentional. Using AI does not reduce the need to review and verify the validity of the information being used. Review of processes is still needed, and don't worry, no one is losing their job to AI.

Set the standard for AI expectations:

- Create an AI team comprised of leadership, IT, legal, and data managers to help form a plan.
- Develop a policy on the use of AI within the organization and how it is expected to be used.
- Provide training on AI: the impacts should be discussed, both positive and negative. This should be forward thinking and outline how the organization should expect to be impacted.

AI isn't meant to fix all your problems, nor replace human proficiency, but instead a powerful tool for transformation. Fire and EMS are no strangers to change, and the change is here.

REFERENCES

- https://connect.na.panasonic.com/blog/toughbook/driving-efficiency-proactivity-how-ai-is-transforming-police-fire-and-ems
- https://www.firehouse.com/technology/article/55090870/ai-the-fire-department
- https://www.firstdue.com/news/future-ai
- https://www.emergent.tech/blog/ai-in-firefighting