

# SAFEGUARD YOUR SCHOOL WITH ADVANCED VISION ANALYTICS

Intelligent video analytics at the edge with HPE and NVIDIA®

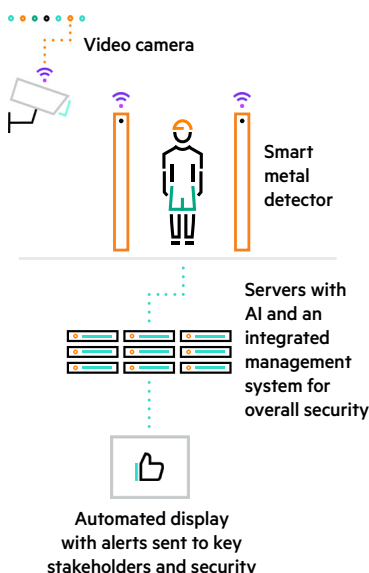
Together, HPE and NVIDIA provide K-12 schools with near real-time AI-driven safety using advanced vision analytics solutions

## Advantages of advanced vision analytics in K-12 schools:

- Speeds reaction times for safety and security scenarios
- Drives better decision making
- Helps to improve safety and security for students, faculty and site visitors
- Helps to provide a safe environment for learning
- Enables a holistic approach incorporating technologies such as smart metal detectors with video to non-invasively detect concealed weapons at entry points (as shown in the figure below)



## End-to-end AI-driven safety architecture:



## AI-DRIVEN SAFETY IN SCHOOLS

Parents entrust schools with the responsibility not only to teach their children but also to protect them while in their care. Keeping students safe is an immense job, encompassing protection against accidents, natural disasters, medical emergencies, and bad actors.

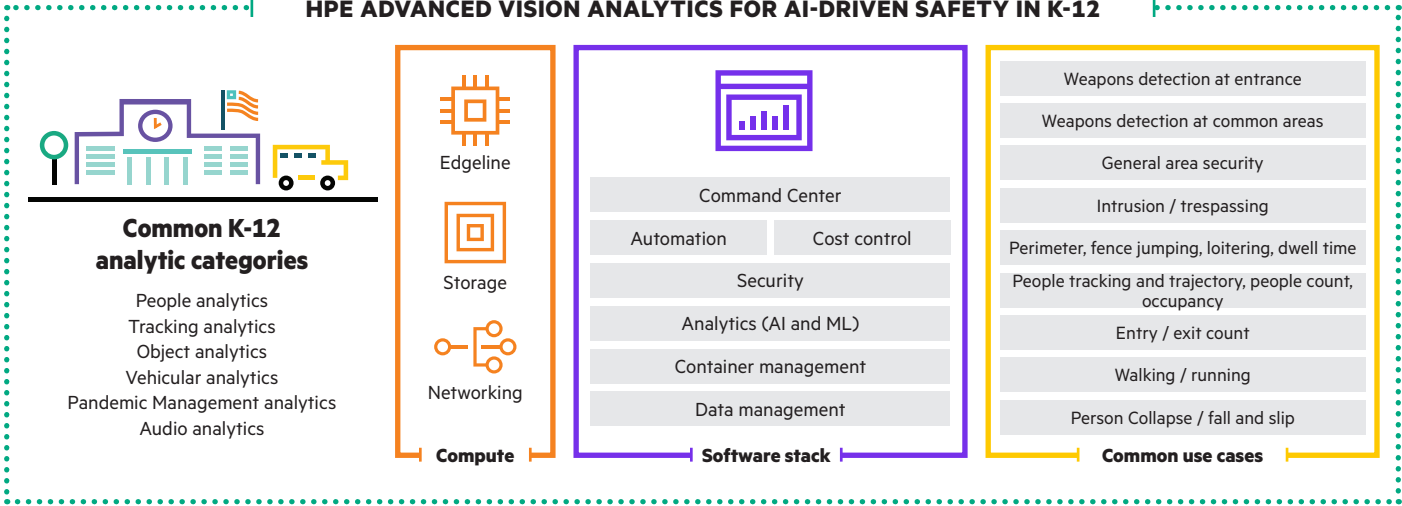
Fortunately, the rapid digital transformation over the last several years is enabling new AI-driven video capabilities that K-12 schools can leverage to improve safety and security efficiently. These “smart” systems from HPE help identify potential dangers while they’re happening. Common use cases in schools include vision analytics for weapon detection among many others for general area and perimeter protection (as shown in the graphic on page 2). Advanced vision analytics can

also be used for health screenings at school entrances or to improve efficiencies.

The goal is to detect potential threats—such as concealed weapons or weapons being displayed—and potentially hazardous situations such as someone falling. Once an issue has been identified, the system passes critical information to key stakeholders in the school by following predefined workflows. By shortening time to action, these intelligent systems can potentially prevent emergencies from becoming serious.

The advanced solution from HPE combines vision analytics with features such as central monitoring and control. These new capabilities help security personnel monitor and manage safety across school grounds in a more efficient manner. Smart systems can also automatically alert local security and hospitals to expedite action.

HPE ADVANCED VISION ANALYTICS FOR AI-DRIVEN SAFETY IN K-12



**Advantages of HPE and NVIDIA for AI-driven safety at the edge**

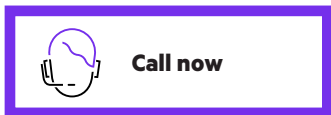
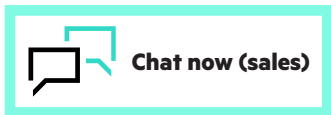
- Combines enterprise-class IT at the edge with an application framework, set of developer tools, and partner ecosystem
- Delivers accelerated analytics at the edge for AI-powered smart spaces
- Integrates operational technology, visual data and AI to improve operational efficiency and safety
- Provides datacenter-class security and systems management

**Looking for an as-a-service offering?**

Consider **HPE GreenLake edge-to-cloud platform** and get the convenience and pay as you go flexibility of the public cloud with the privacy, performance, and control of your own environment.

**Federal grant funding resources:**  
[schoolsafety.gov/grants-finder-tool](https://schoolsafety.gov/grants-finder-tool)

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**POWERFUL ANALYTICS AT THE EDGE FOR ENHANCED SAFETY IN K-12 SCHOOLS**

HPE meets the needs of real-time automated AI-driven safety for K-12 schools through powerful and flexible edge computing. Advanced vision analytics from HPE is a comprehensive answer to the safety needs of modern schools. Advanced vision analytics from HPE can be used for guns/weapons detection, sound analytics, and first-alert notifications. Easy integration with third party systems results in a more holistic security solution.

**NVIDIA Metropolis**

Advanced vision analytics from HPE also benefits from the powerful GPU computation of NVIDIA Metropolis, an extensive ecosystem of AI solutions for deployment of real-time safety measures. By applying AI to video data, NVIDIA Metropolis quickly identifies potential threats while also helping with operational efficiencies such as smart lighting and parking management. Together, HPE and NVIDIA provide time-critical insights at the edge so that school staff can respond promptly and appropriately to potential safety and security concerns.

**HPE Edgeline Converged Edge Systems**

Advanced vision analytics from HPE runs on HPE Edgeline powered by NVIDIA GPU-accelerated processing, bringing uncompromised enterprise-class IT systems from the data center out to the edge. The compact, ruggedized form factor is engineered for the harsh operating conditions found at the edge, ensuring that datacenter-level compute and management technologies are available across school grounds, in parking lots and athletic facilities. With HPE Edgeline, you gain:

- Unprecedented edge compute on open, standards-based architecture

- World-class manageability and security
- Integrated enterprise IT capabilities and operational technology (control systems, data acquisition systems, and industrial networks)

By moving to a distributed converged edge-compute model with HPE Edgeline, schools can expect real-time, local decision-making to support immediate action, autonomous operations, and world-class security and compliance at all times with minimal management overhead.

**Advanced vision analytics at the edge**

Computing at the edge with HPE enables K-12 schools to process data quickly, enhance data security, and generate real-time insights from video whenever and wherever needed. By using AI, we help reduce the time it takes for large pools of data to be analyzed and processed. Machine learning at the edge helps to analyze video in near real time to provide time-critical information to first responders and law enforcement as events are unfolding.

**Comprehensive services portfolio**

No matter where you are in your digital transformation journey, you can count on HPE Pointnext Services to provide the expertise you need, when and where you need it. Our Digital Next Advisory approach can help you identify, prioritize, and implement the right transformation initiatives to deploy an intelligent AI-driven safety system, get real-time insights from all your data, and modernize your IT to enable new opportunities.

**SCHEDULE A CONSULTATION**

Contact us to discover how HPE and NVIDIA can help you power the edge to enhance safety and security for your students, staff and visitors. Schedule a complementary consultation at:

[hpe.com/us/en/solutions/psdc-main](https://hpe.com/us/en/solutions/psdc-main)

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