



Considerations for Improving Physical Security in K-12 Schools

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Different schools have **vastly different security needs** based on location, student population, budget



There is **little empirical evidence** around the effectiveness of protective measures



A **systems-based approach to layered school security** can help schools make better-informed decisions for their unique contexts

What technologies do schools consider appropriate?



Technologies Rated as “Very Appropriate” for **Severe Forms of Violence**:

Technology	Urban Schools	Suburban/ Rural Schools
Communication technology	√	√
Entry control equipment	√	√
Emergency alerts	√	√
Tip lines		√
Social media monitoring		√
Video surveillance	√	

Technologies Rated as “Very Appropriate” for **Frequent Forms of Violence**:

Technology	Urban Schools	Suburban/ Rural Schools
Communication technology	√	√
Tip lines	√	√
Social media monitoring		√
Video surveillance	√	

Evidence about effectiveness of school security technologies is mixed



- **Few studies evaluate effectiveness**, despite the large literature on different types of school safety and security technologies
- **Contextual factors likely impact measures' effectiveness**, e.g. occupant behavior, awareness of countermeasures, etc.
- **More cost-effective solutions** include the implementation of access control measures, e.g., door locks, entry screening, IDs
- **The unintended impacts that measures can have on school climate and perceptions of safety** suggest that the opportunity cost of investing in security technologies is high for schools

Key theme: a systems-based approach recognizes that one size does not fit all

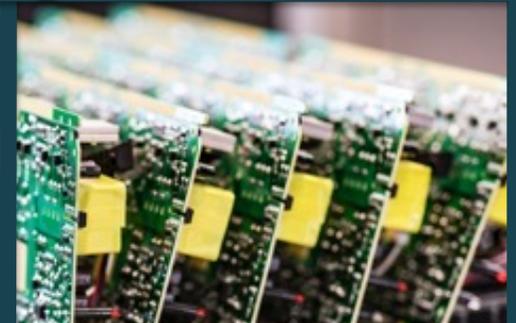


- A systems-based approach helps schools **address their unique circumstances**, and ensures that security measures work with efforts aimed at preventing violence and responding to incidents
- A layered approach to security helps **avoid single points of failure** and ensures that elements are working in an integrated way to detect, delay, and respond to threats
- **Physical security technology, site and building design features, personnel, policies and procedures, and training programs** work cohesively to provide security benefits
- **Multi-disciplinary teams leading the planning process** meet the needs of diverse stakeholders and enhance response capabilities

Future directions



For Schools	For Technology Developers
<ul style="list-style-type: none">✓ Create a comprehensive, all-hazards school safety plan integrated with violence prevention and response & recovery efforts	<ul style="list-style-type: none">✓ Develop improvements to technologies that schools consider appropriate for severe and high-frequency forms of violence
<ul style="list-style-type: none">✓ Consider new technology's up-front and long-term costs and potential impact on school climate	<ul style="list-style-type: none">✓ Develop complementary resources that help ensure the effectiveness of technologies, such as training materials
<ul style="list-style-type: none">✓ Ensure that new technology can be integrated with existing systems and upgraded in the future	<ul style="list-style-type: none">✓ Test technology solutions through simulations and in real-world environments where possible
<ul style="list-style-type: none">✓ Consider the staff and training needs associated with that technology's successful operation	



Questions & Discussion

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