VISION360
BY TGB CONTRACTING GROUP

Vision360

DEIEP

DIGITAL EMERGENCY INGRESS & EGRESS PROTOCOL

The Vision360 Digital Emergency Ingress and Egress Protocol (DEIEP) is an advanced program designed to enhance school emergency response plans by providing first responders with real-time, 3D models of school properties. As school shootings continue to rise, DEIEP equips first responders and school administrators with the tools they need to navigate emergencies more effectively and potentially save lives.

www.vision360.space
admin@tgbcontracting.com

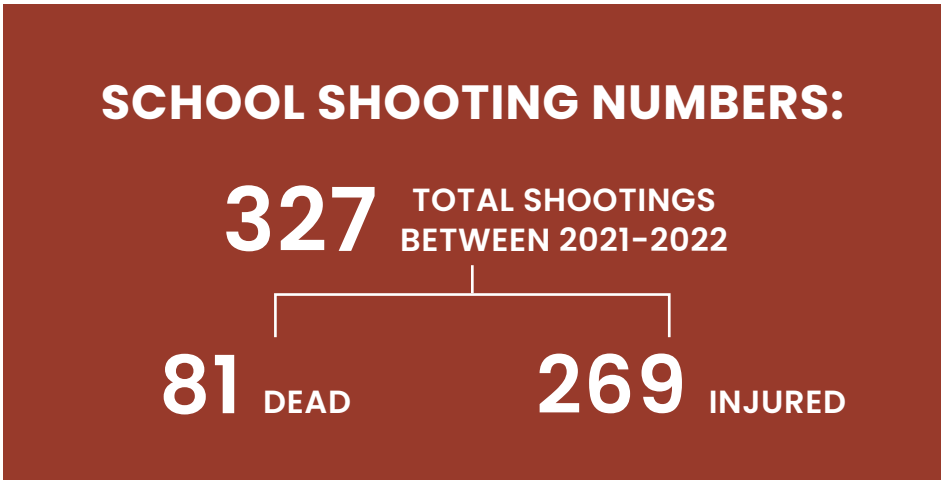
Introduction

The alarming increase in school shootings has revealed the limitations of traditional emergency plans that rely on outdated blueprints or static floor plans. The DEIEP program addresses these limitations by offering cutting-edge 3D models, allowing for more strategic emergency preparedness, quicker response times, and better outcomes in life-threatening situations.

What Are Digital 3D Replicas?

Digital 3D replicas are highly detailed virtual representations of physical spaces created using advanced technologies such as LiDAR and photogrammetry. These replicas capture every hallway, exit, and entry point in real time, giving first responders a dynamic view of the building's layout. This visibility is crucial in chaotic and high-pressure situations like school shootings.

The Growing Need for Advanced Safety Solutions



The 2021–2022 school year marked a tragic milestone with 327 school shootings, resulting in 81 deaths and 269 injuries—the highest number ever recorded *(Home| USAFacts)*. In 2023, the number of incidents is projected to reach an even higher total, potentially surpassing 400 shootings *(Home| USAFacts) (K-12 School Shooting Database)*. These grim statistics highlight the urgent need for innovative solutions like DEIEP, which provides first responders withreal-timee, accurate building data to enhance safety measures.

Fact-Based Hypothetical Scenarios:
HOW DEIEP COULD HAVE CHANGED OUTCOMES

Faster First Responder Access and Navigation

Columbine High School (1999): During the Columbine shooting, first responders experienced significant delays navigating the building due to unfamiliarity with its layout. Had DEIEP been in place, first responders could have accessed real-time 3D models of the school, identifying the quickest and safest entry points. This could have reduced response times, allowing them to intervene faster and potentially prevent further casualties. By offering detailed insights into the building's layout, including hidden hallways and exits, DEIEP ensures faster, more strategic decision-making.

Enhanced PreIncident Planning

Marjory Stoneman Douglas High School (2018): In this tragedy, confusion and panic contributed to delayed evacuations. A DEIEP model would have allowed school staff and students to practice detailed evacuation drills based on 3D models of the school, helping them identify all available exits. In a real emergency, this familiarity could lead to smoother, quicker evacuations, minimizing the risk of injury or death. Additionally, first responders trained using the digital replica could have navigated the building more efficiently upon arrival, reducing chaos and confusion.

Improved Coordination for First Responders

Sandy Hook Elementary School (2012): When police arrived at Sandy Hook, they faced challenges in quickly identifying access points and the location of key areas in the school. With DEIEP, first responders would have had a virtual view of the school's layout before entering, helping them pinpoint specific classrooms and exits immediately. This enhanced coordination could have facilitated faster entry into critical areas, potentially saving more lives.

Real-Time Updates During Active Situations

Santa Fe High School (2018): In this shooting, there were challenges in tracking the shooter's movements throughout the school. DEIEP could have provided first responders with real-time updates on closed or blocked pathways, helping them adjust their approach dynamically. By visualizing the changing conditions inside the building, DEIEP enables responders to reroute and reprioritize quickly, avoiding bottlenecks or unsafe areas, thus enhancing their ability to neutralize the threat and protect students.

The Advantages of Digital Replicas in School Safety

Enhanced Visibility

3D models provide a comprehensive, real-time view of a building's interior and exterior, including essential features like exits, stairways, and obscure hallways. This allows first responders to navigate the space more efficiently and avoid delays.

Improved Planning & Training

These replicas can be used to plan evacuation routes and conduct scenario-based training, helping staff and first responders practice strategic responses to a variety of potential crises.

RealTime Updates

DEIEP ensures that any changes to the building's structure—such as renovations or new constructions—are reflected in real time, allowing responders to access the most current layout when seconds count.

Implementing Digital Replicas

The implementation of DEIEP is a straightforward process. Using advanced technologies like laser scanning and photogrammetry, Vision360 creates a detailed 3D replica of the building. This model is integrated with existing emergency plans and can be accessed from any web-enabled device. Whether used for training or active crisis management, DEIEP's digital replicas offer a significant advantage in reducing response times and improving emergency outcomes.

PROVEN RESULTS: PreIncident Planning

Studies from the National Fire Protection Association (NFPA) indicate that having pre incident plans in place can reduce the time it takes for first responders to navigate a building by up to 50% *(Home|USAFacts) (K-12 School Shooting Database)*. Similarly, surveys by the International Association of Fire Chiefs (IAFC) show that 70% of first responders believe that access to pre incident plans could have improved their response to recent emergencies *(Home|USAFacts)*.

WHY DEIEP?

With over 148 school shootings since 2018, resulting in hundreds of deaths and injuries, the need for advanced safety protocols has never been clearer *(Home|USAFacts) (K-12 School Shooting Database)*. The DEIEP program provides schools with the ability to:

- Equip first responders with detailed, up to date building information in real time.
- Plan for emergencies with greater precision and clarity.
- Conduct more effective training exercises based on realistic 3D models.
- Act quickly and decisively in emergencies, reducing the risk of injury or loss of life.

FOUNDER'S MESSAGE

As the founder of Vision360 and a parent, the safety of our children is personal to me. Every second counts in a school emergency, and DEIEP provides first responders and school administrators with the critical tools they need to save lives. By using 3D models to plan, train, and respond, we can make schools safer for everyone.

Bill Shipley, *Owner*

References:

- NFPA 1620: Standard for Pre-Incident Planning. *(https://www.nfpa.org/codes-and-standards/all-codes-and-standards/list-of-codes-and-standards/detail?code=1620)*
- Skryabina EA, et al. The Role of Emergency Preparedness Exercises in Mass Casualty Response. Int J Disaster Risk Reduct. 2020. DOI *(https://doi.org/10.1016/j.ijdrr.2020.101503)*
- Education Week. School Shootings Over Time: Incidents, Injuries, and Deaths.
- (2021). *(https://www.edweek.org/leadership/school-shootings-over-time-incidents-injuries-and-deaths)*
- K-12 School Shooting Database. *(https://k12ssdb.org/)*