

Implementation and Deployment of Situational Awareness Platforms for Protecting Soft Targets – Setting the Stage

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So What? Who Cares? (Bottom Line up Front)

- Space: Protecting soft targets and crowded spaces
- Problems:
 - In last ~month: Maine (guns); music festival (guns, grenades, cyanide); school (drone)
 - This year more than 2 mass shootings per day
 - Long lead-time for developing and deploying solutions
 - Insufficient number of [armed] guards
 - ACLU/invasion of privacy
 - Decrease freedom
- Solution (possible)
 - SENTRY DHS Center of Excellence (SENTRY) at Northeastern University
 - ADSA workshops to create community of interest; allow problems and solutions to be presented; build on ideas of others; networking
 - ADSA27 – situational awareness platforms (+other names) – to augment and assist multiple stakeholders: students, teachers, general public, guards, first responders, security directors
 - Develop understanding of inputs, outputs and analytics
 - Determine what is acceptable for various venues

ADSA Format – Discussion Required

- Conversation and questions are always expected, especially after second slide
 - Speakers – ask for questions
- Asking questions
 - Zoom: raise hand, post question or “?” in private chat to 01AskQuestions
 - In-person: Raise hand
 - Moderators will call upon you – unmute mic/video
- In person participants – use microphones
- Meeting not recorded to encourage discussion
- No recording, photographs, or snapshotting presentations
- Public domain – no sensitive material
- No speaker introductions; read biographies
- Slides will be posted after the workshop



Why ADSA?

- Multiple other excellent workshops, conferences, meetings
- ADSA emphasizes discussion
 - Want minimal presentation and maximal discussion
 - Presenters chosen for their expertise and to be able to create discussion
 - Want high-level descriptions of problems and solutions
 - People can meet during or after workshop to get details
- Need a connection? ... email me or Northeastern staff
- ADSA27 changes: shorter first day, fewer presentations, longer breaks

ADSA27 (Proposed at ADSA26)

Synonyms: Situational/domain/decision awareness platforms;
command and control platforms

- Sensors (physical and intelligence)
- Algorithms/AI and open-platform
- Outputs
- Stakeholders' perspectives: Law enforcement, first responders
- Common communication protocols
- Requirements and concepts of operation
- Systems approach/Case studies
- Public acceptance, ACLU, etc.
- Commercial products
- Innovations needed
- Liability, finances
- Layered Security
- Risk management
- Test & evaluation

Huge space ... only addressing subset at ADSA27

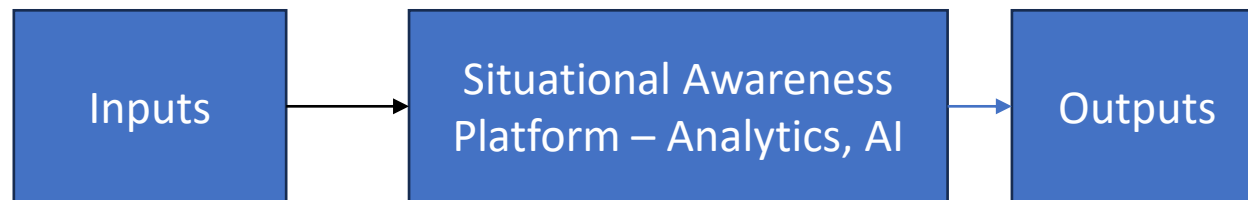
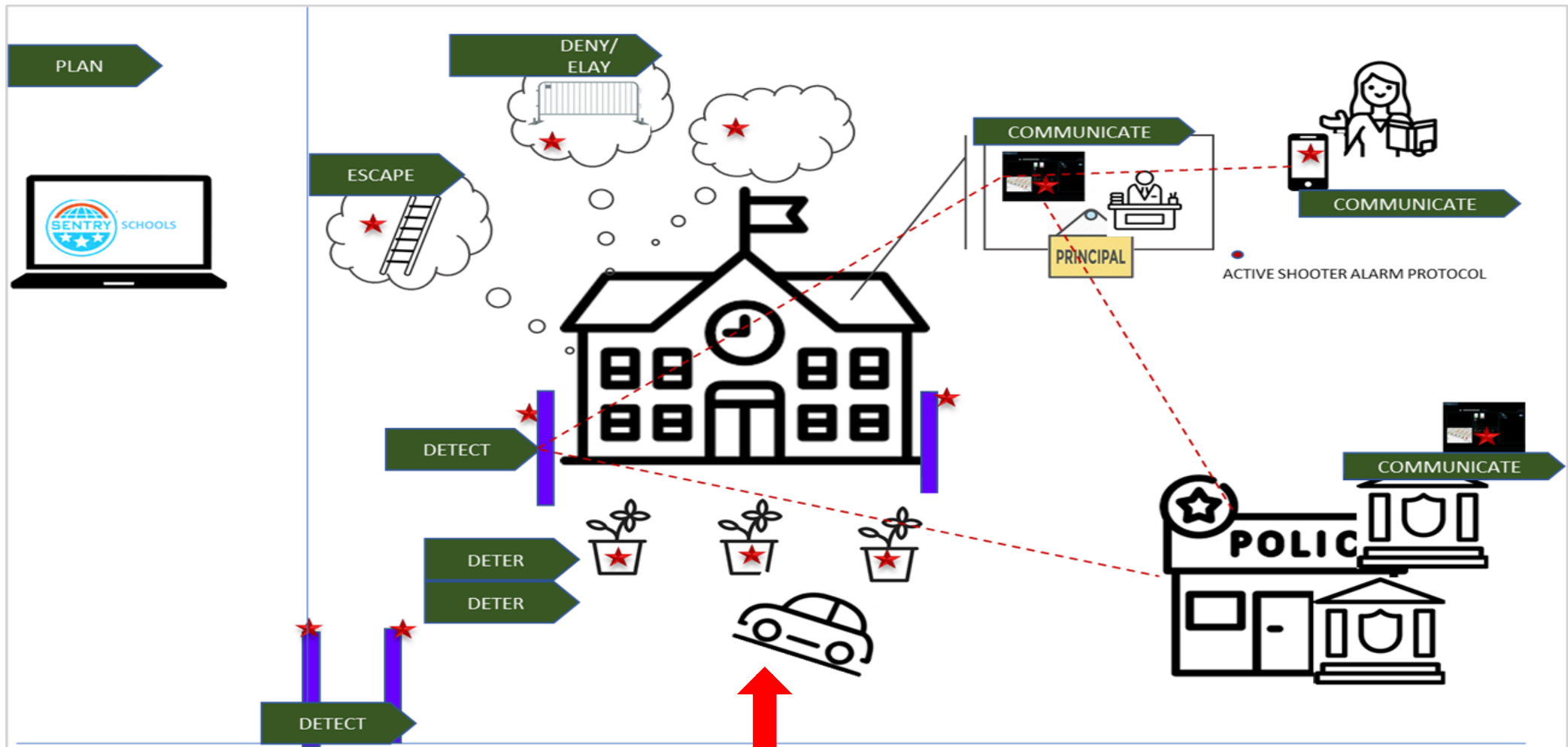
ADSA27 (from ADSA26) – Part II

- Unintended consequences
- Civil liberties & privacy
- Variations and adaptability by venue
- User interfaces (e.g., cell phone)
- Humans (inc. parents) in the loop
- Deterrence & displacement
- Requirement specifications
- Interoperability
- Application programming interfaces
- Financial: operating cost, market size, funding, development cost
- Installation, maintenance, legal considerations
- Focus on one venue (e.g., schools)
- Concept proofs without prototypes

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Acknowledgements

- Department of Homeland Security (DHS) - funding
- Chelsea Thompson, DHS S&T – program management
- Presenters
- Participants ...discussants!!!!
- Northeastern University's audiovisual team
- ALERT staff led by Tiffany Lam and Makenna Lorange, Jess Flemming
Kristin Hicks, Deanna Beirne



Upper figure:
Lisa Dolev, Qylur

Do not want to show pictures of Maine shoots,
music festival and drone attack on school.

Pessimistic: Attacks will continue

Optimistic: ADSA27 will lead to solutions