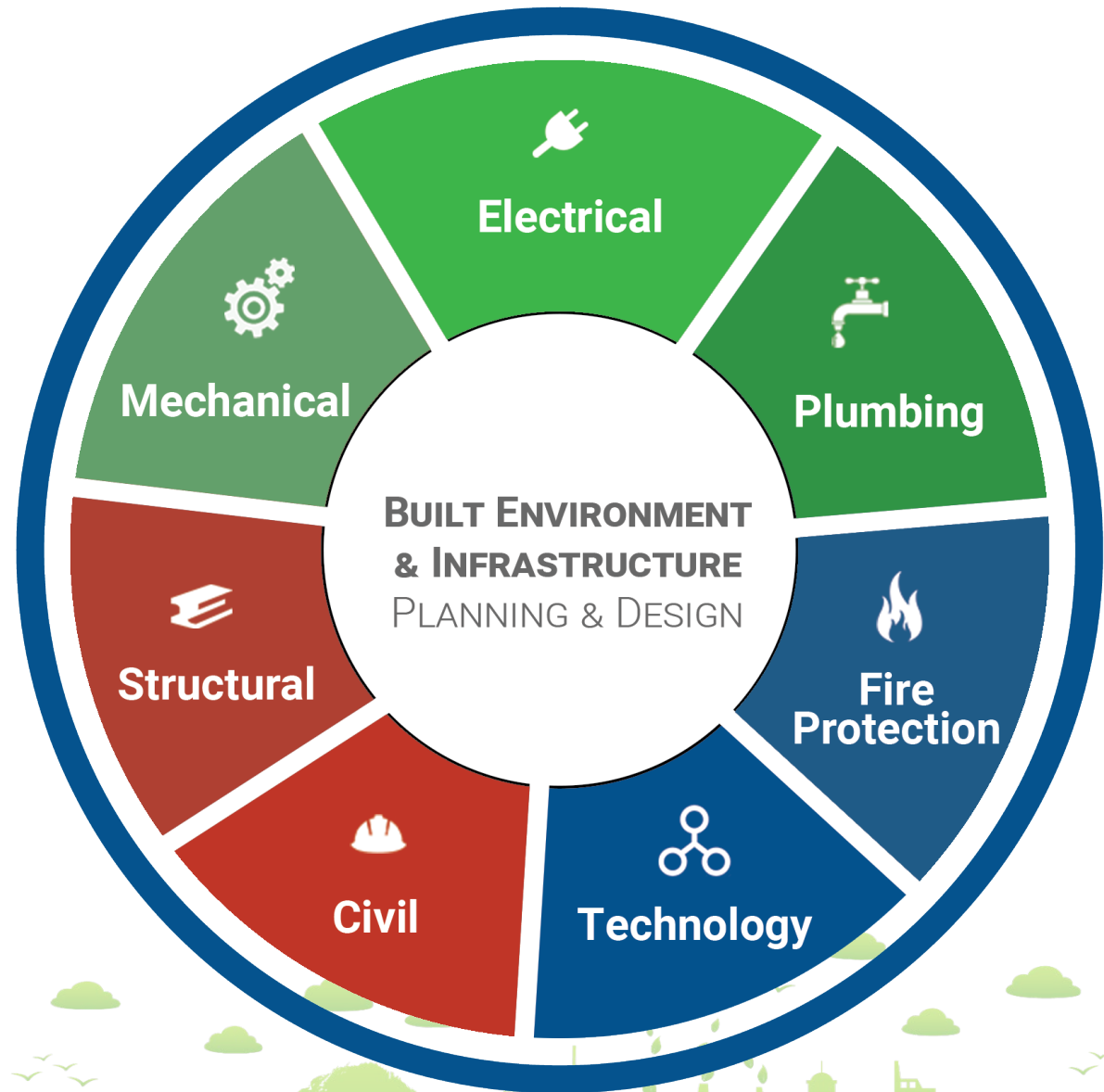


SECURITY CONSIDERATIONS



PRESENTED BY
RYAN SEARLES, CPP, CPD
*NATIONAL LEADER SECURITY DESIGN &
CONSULTING TEAM*

105 COLLECTIVE YEARS
3,000 EMPLOYEES
U.S. BASED & EMPLOYEE-OWNED
100+ LOCATIONS
650+ LICENSED ENGINEERS
\$500M IN ANNUAL REVENUE
#52 / TOP 500 DESIGN FIRM



IMEG At-a-Glance



Developed strong roots and continue to expand our offerings & expertise...

BUILDING DESIGN: ENGINEERING & PLANNING

- Civil Engineering
- Structural Engineering
- MEP / FP Engineering
- Technology Design
- Security Design & Engineering
- Acoustics & Noise Control
- Lighting Design
- Medical Equipment Planning
- Parking Design & Planning

INFRASTRUCTURE: DESIGN & PLANNING

- Civil Engineering
- Transportation Planning & Design
- Land Development & Surveying
- Environmental Services
- Landscape Architecture
- Water / Wastewater
- Materials Testing
- Subsurface Utility Engineering
- Construction Observation

SUSTAINABILITY & ENERGY SOLUTIONS

- Daylighting
- Decarbonization Planning
- Energy Modeling
- Embodied Carbon Analysis
- Life-cycle Cost Analysis
- LEED & WELL Consulting
- Net Zero Energy
- Rapid Performance Modeling

BUILDING PERFORMANCE & OPERATIONS

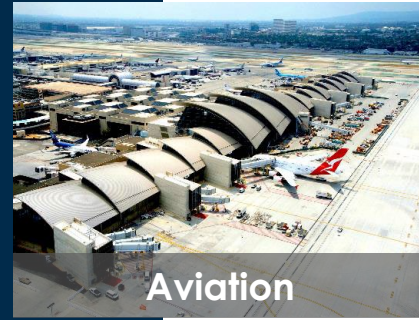
- Commissioning
- Retro-Commissioning
- Monitored-based Commissioning
- Building Performance Optimization

CONSULTING & ADVISORY SERVICES

- Vision & Planning (all project types)
- Building Intelligence & Integration
- Healthcare Information Technology
- Security Consulting

PROCESS ENGINEERING

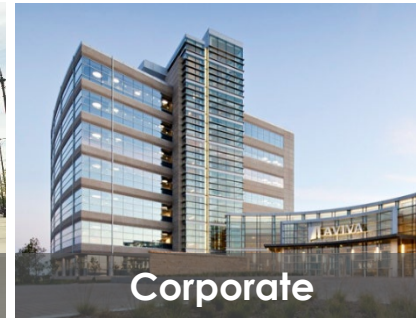
- Automation & Controls
- Chemical Process
- Bulk Processing



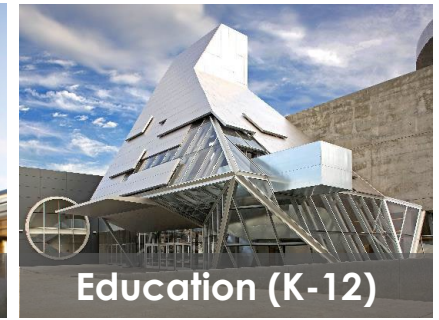
Aviation



Commercial



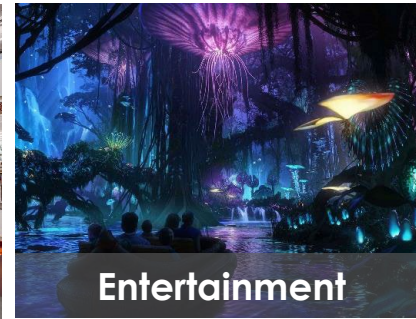
Corporate



Education (K-12)



Education (Higher)



Entertainment



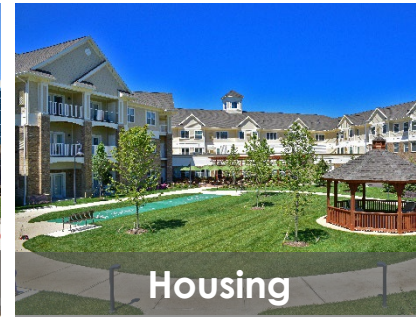
Federal



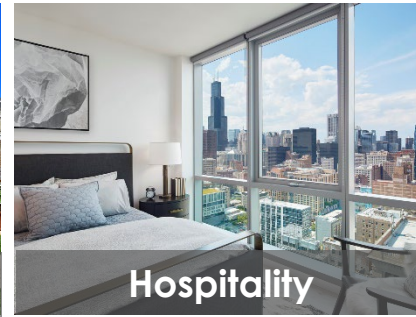
Government (State/Local)



Healthcare



Housing



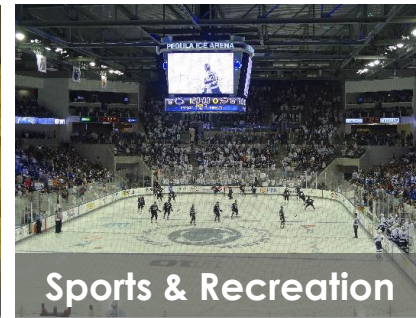
Hospitality



Industrial



Science & Technology



Sports & Recreation



Transportation



Water & Wastewater

Key Markets

➤ **Ryan Searles CPP, CPD**

- Security Advisory Group Leader
- 22 years of experience
- US CPTED Association Board Member
- Security Building Council Executive Board Member
- Former Adjunct Professor Texas State University ALERRT Center
- DHS THIRA Certified
- Crime Prevention Through Environmental Design (CPTED) Certified
- Multiple Purple Heart Award Recipient





- **The design of effective physical security systems requires a methodological approach**
- **An effective physical security system that integrates people, procedures, and technology for protection of assets against theft, sabotage, and malicious human attacks**
- **What does this mean?**



- **A&E industry generally think spots and dots**
- **Not cookie cutter**
- **Direct with Architect on Design**



What is Physical Security Design?

➤ Threat

- Known vs. Unknown

➤ Vulnerability/gap – where are they/what are they?

➤ A report that helps the client identify weakness and projects.



- More Architects are getting consultants involved earlier.
- People are considering safer building designs because of more thoughtful useful spaces, mitigation of patient on patient, and patient on staff assaults, therapeutic environment and other advancements and emergencies that are becoming more prevalent



Not all buildings
are the same.

Education vs.
Healthcare, and
other markets.

CPTED





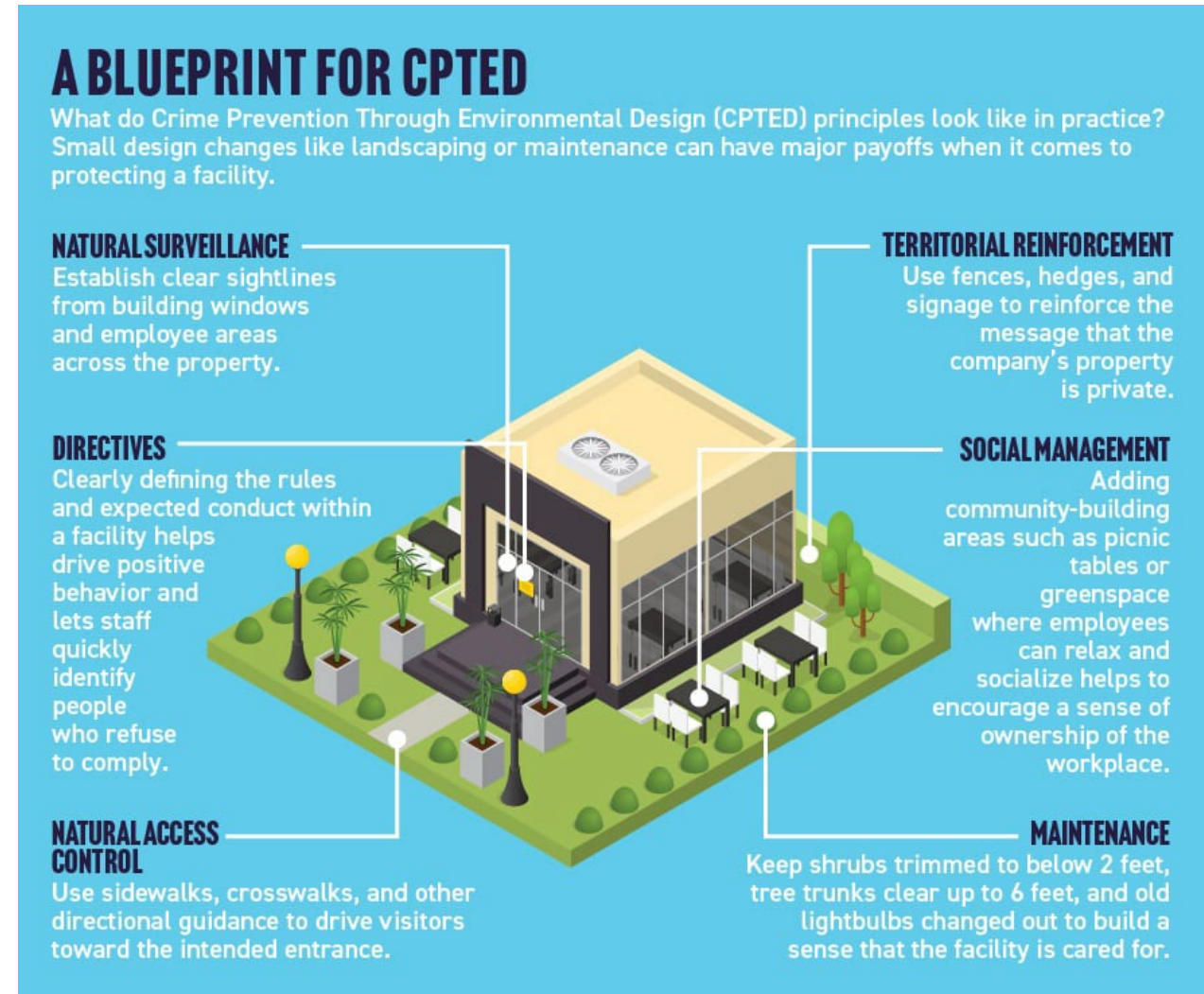
➤ **One of the most effective ways to increase a building's physical security without creating an overly institutionalized aesthetic is by leveraging architectural elements to create secure environments – a group of strategies called Crime Prevention Through Environmental Design (CPTED). To provide these security services to clients, we provide strategies that include.....**

- Increasing natural surveillance through design
- Ensuring territorial boundaries of design are well established both internally and externally
- Creating a maintenance plan for vegetation that could counter concepts and principles of CPTED
- Ensuring lighting is efficient to dissuade the potential for doing harm to the facility or its occupants
- Establishing social management programs to build trusted relationships and programs with the community to increase the awareness and safety around an organization
- Collaborating with landscape and design architects to achieve goals
- Ensuring natural access control of interior and exterior spaces is achieved using design in conjunction with mechanical access control to create a more safe and smooth flow of personnel

Integrating these techniques into design can increase the safety of your building and community.



- Always start with the perimeter and property line
- Think of a filter, what percentage of issues can we mitigate before it even gets to us? How do we accomplish this?
- This isn't just fencing
 - Environment, lighting, parking lots, signage, checkpoints, etc.
- Inside
 - Vestibules, front desk design, technologies that can help prevent and respond.



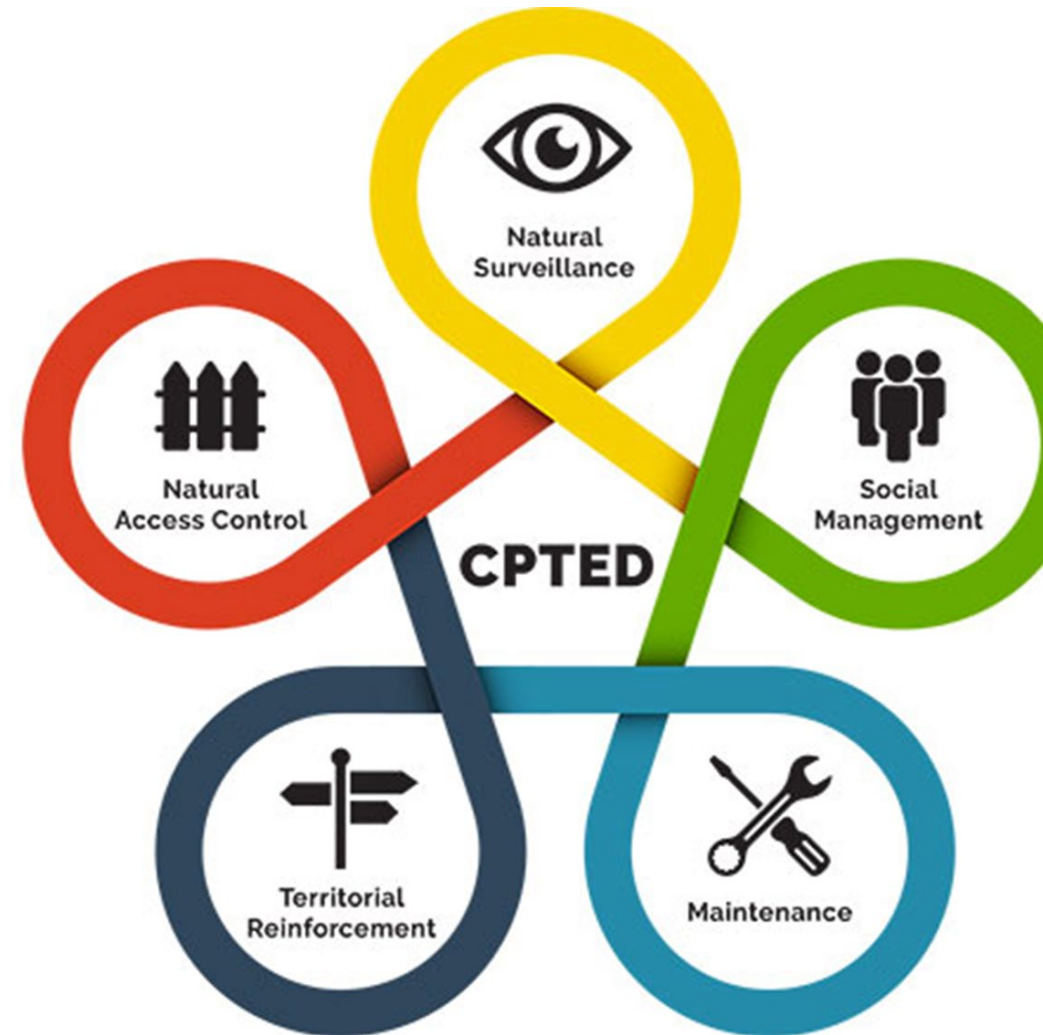
www.asisonline.org

It Starts With An Outside Approach

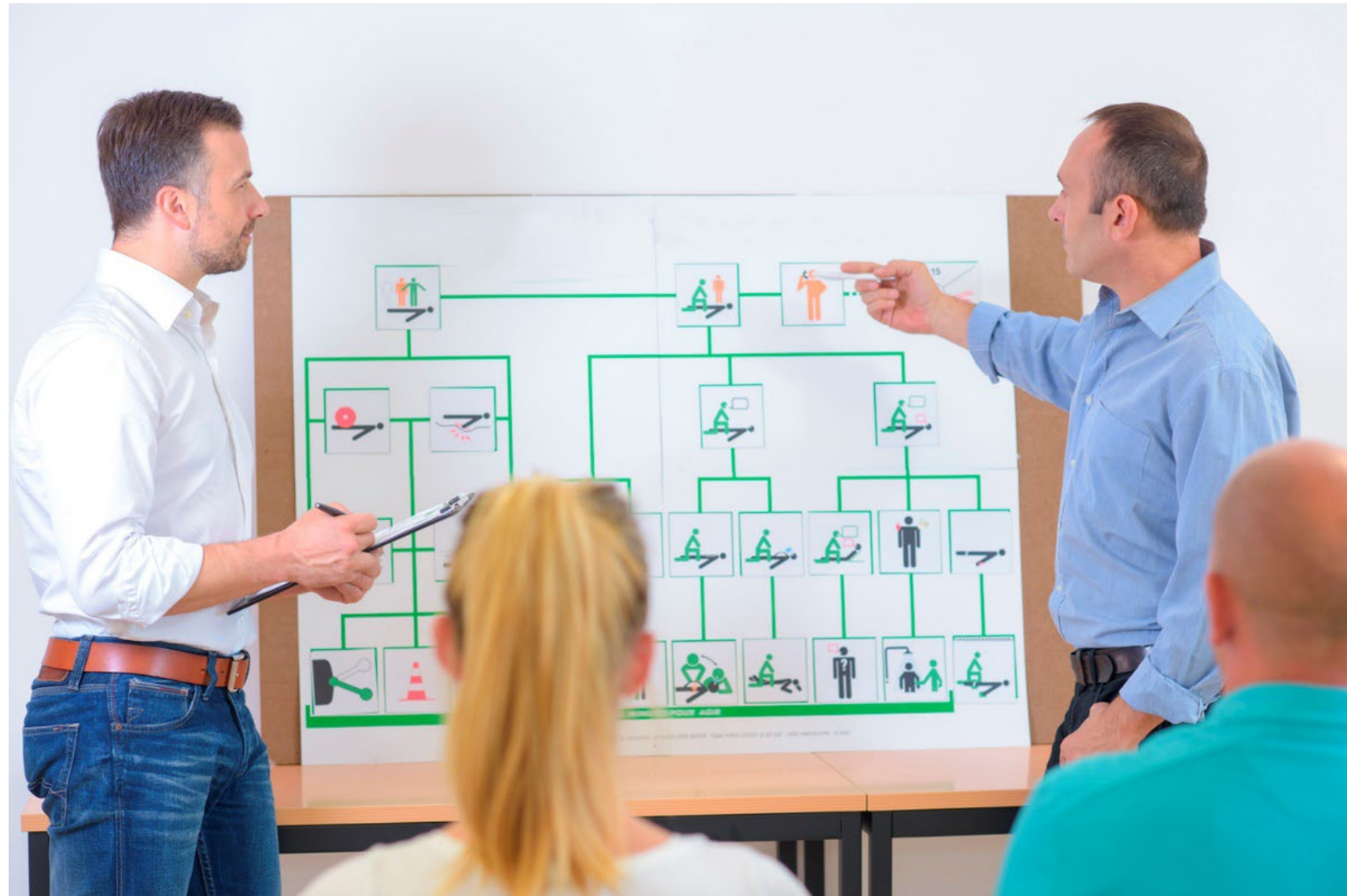
Holistic Security Design

➤ Bring CPTED strategies to life

- Multiple phases of design
- Social programs
- Design solutions
- Lighting
- Natural surveillance
- Natural access control
- Blend with physical security technologies (cameras & access control devices)
- Holistic Approach to Security
- Doesn't create a hostile over institutionalized look and feel



- Cost
- Cohesive Systems
- Ability to adjust



Starting Early in the Design Phase



➤ Fencing – Cons & Pros

- Castle Model

➤ Lighting

➤ Cameras

➤ Access Control

➤ Mass Communication

➤ Gunshot Detection

➤ Weapon Detection

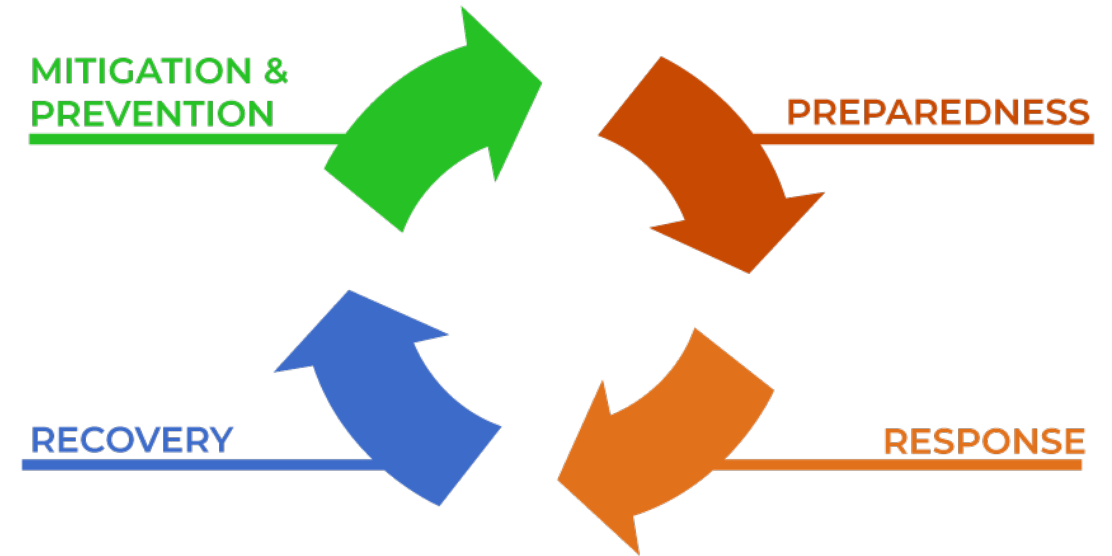
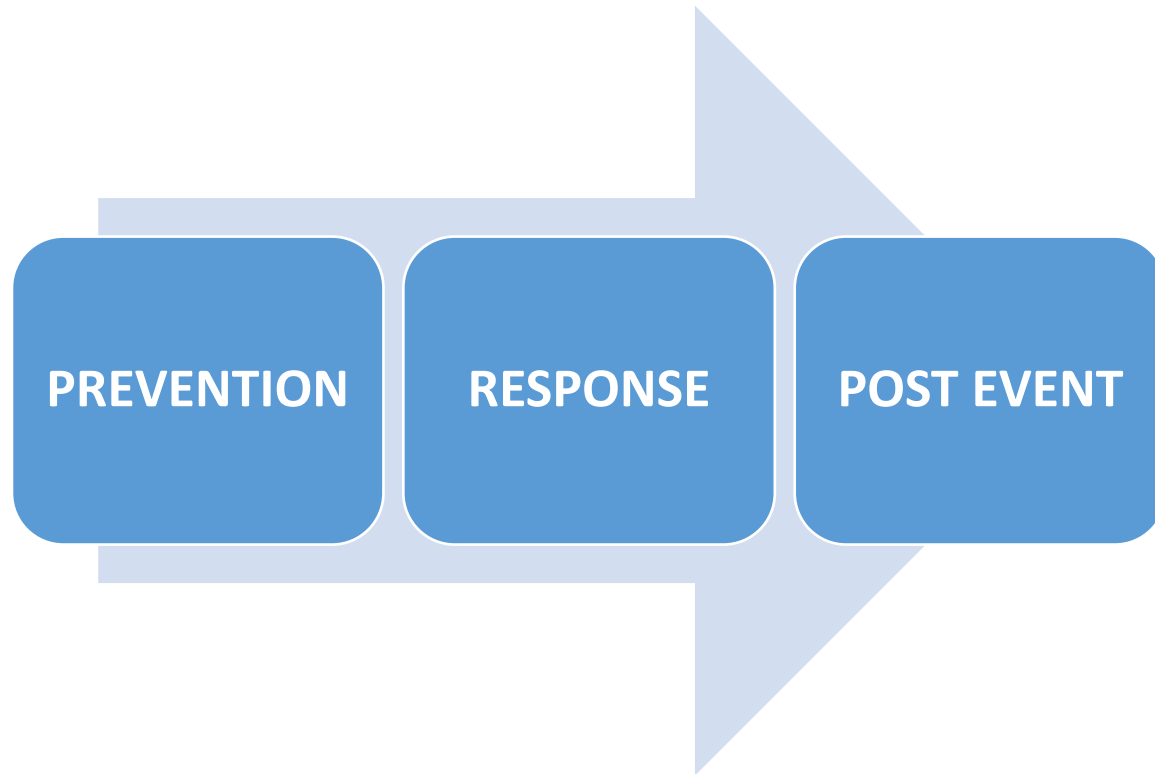


- The building has a purpose and design, it is up to us to work with it
- Although we want to maintain the building aesthetics, life safety must always be the number one mission
- If we design a beautiful building that is dangerous and something happens, does that tarnish our brand?



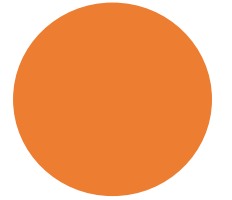
Don't Lose the Aesthetics of the Building





- **Training**
- **Policy and procedure**
- **Crisis management teams**
- **Social Management Consulting**
- **Industry specific issues and solutions**

Our responsibility is the safety and security of our clients. Having specialized security consultants, can really set you apart as the firm that is making the difference



Q+A

Thank You



The **FUTURE.** Built **Smarter.**

CONTACT

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