

The Global Transportation Security Threat

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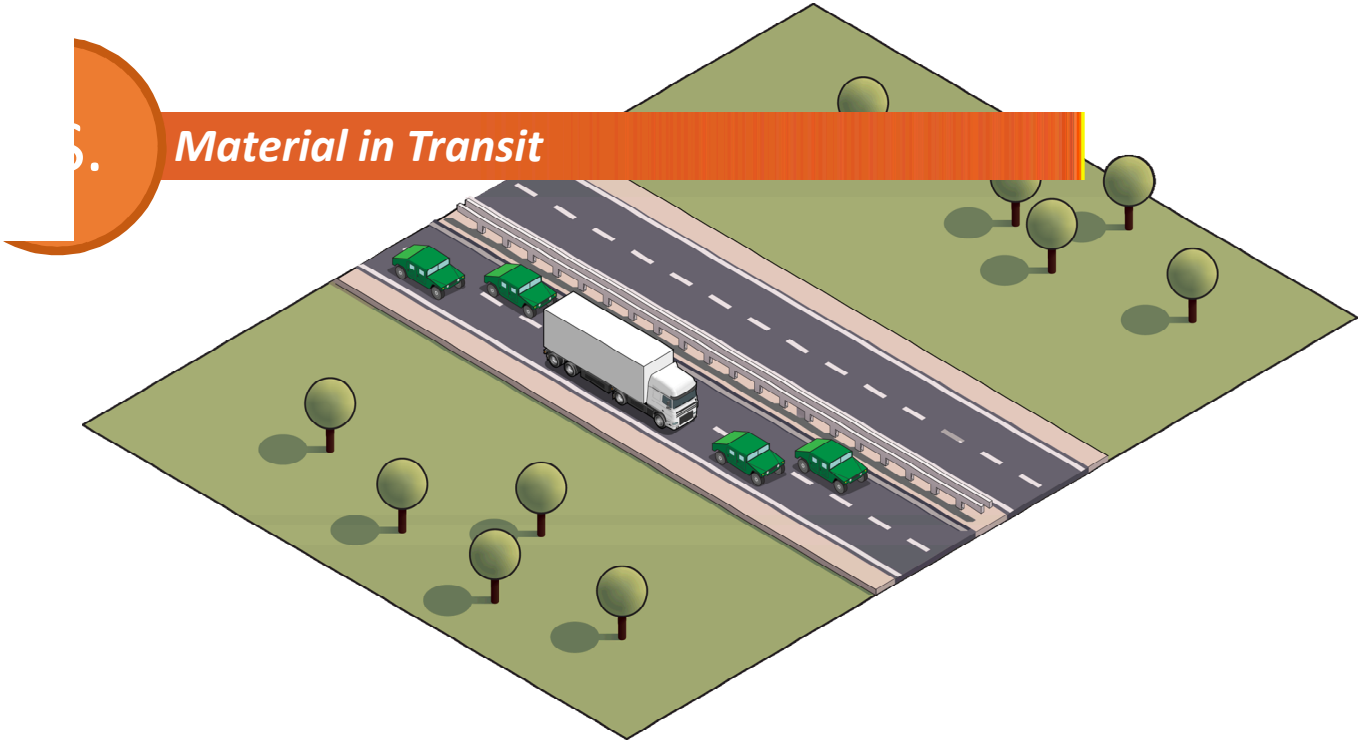
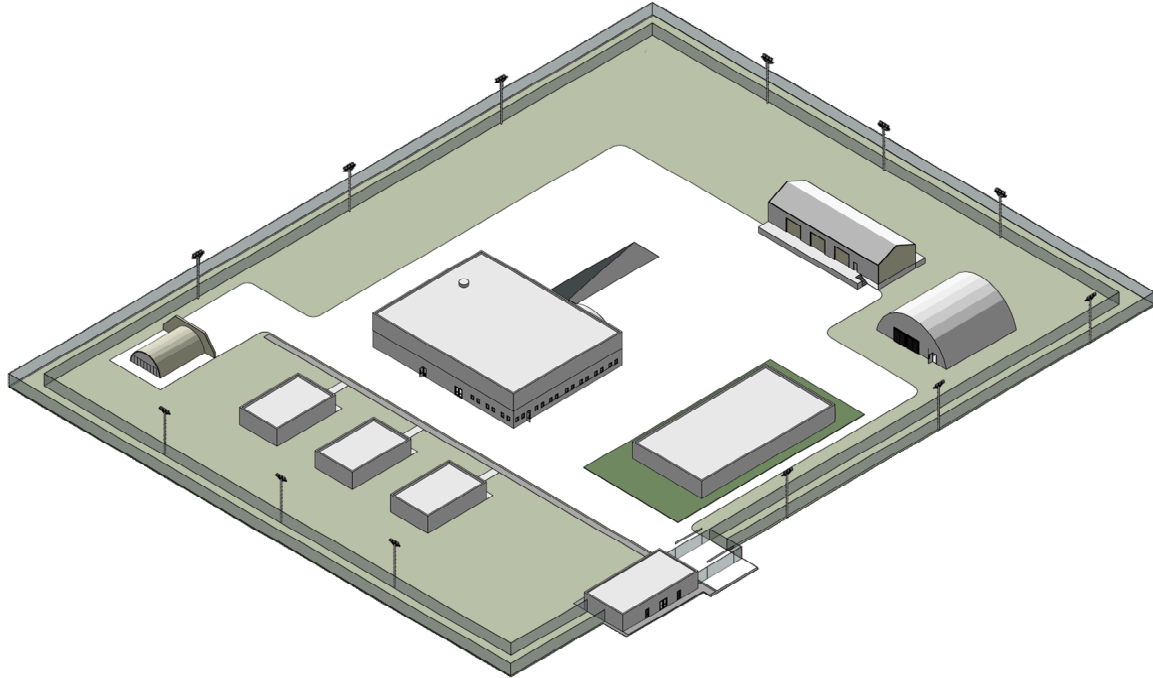
Transportation Challenges

- Ensuring security for material in transit is more complex compared to that of fixed location
- While Radioactive Material is in transit
 - Location of attack will favor the adversary
 - Closer to the vault at the point of detection
 - Ability to isolate and secure the target vehicle
 - Favorable terrain (i.e. limited visibility, poor communications, escape routes)
 - Environmental change can impact security of material
 - Traffic
 - Construction along route
 - Adversarial tactical advantages
 - Topography
 - Remote locations
 - Poor communications



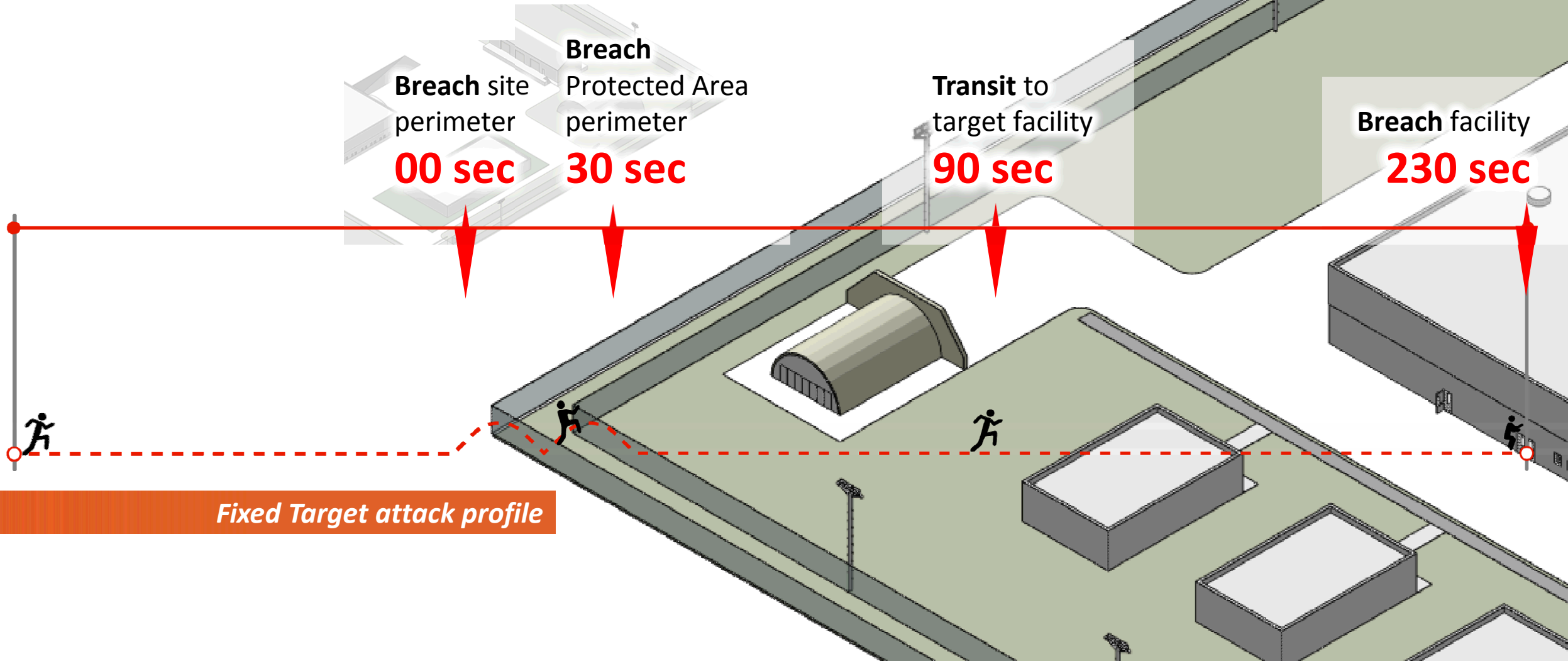
Transportation Challenges

Securing materials in transit poses a challenge



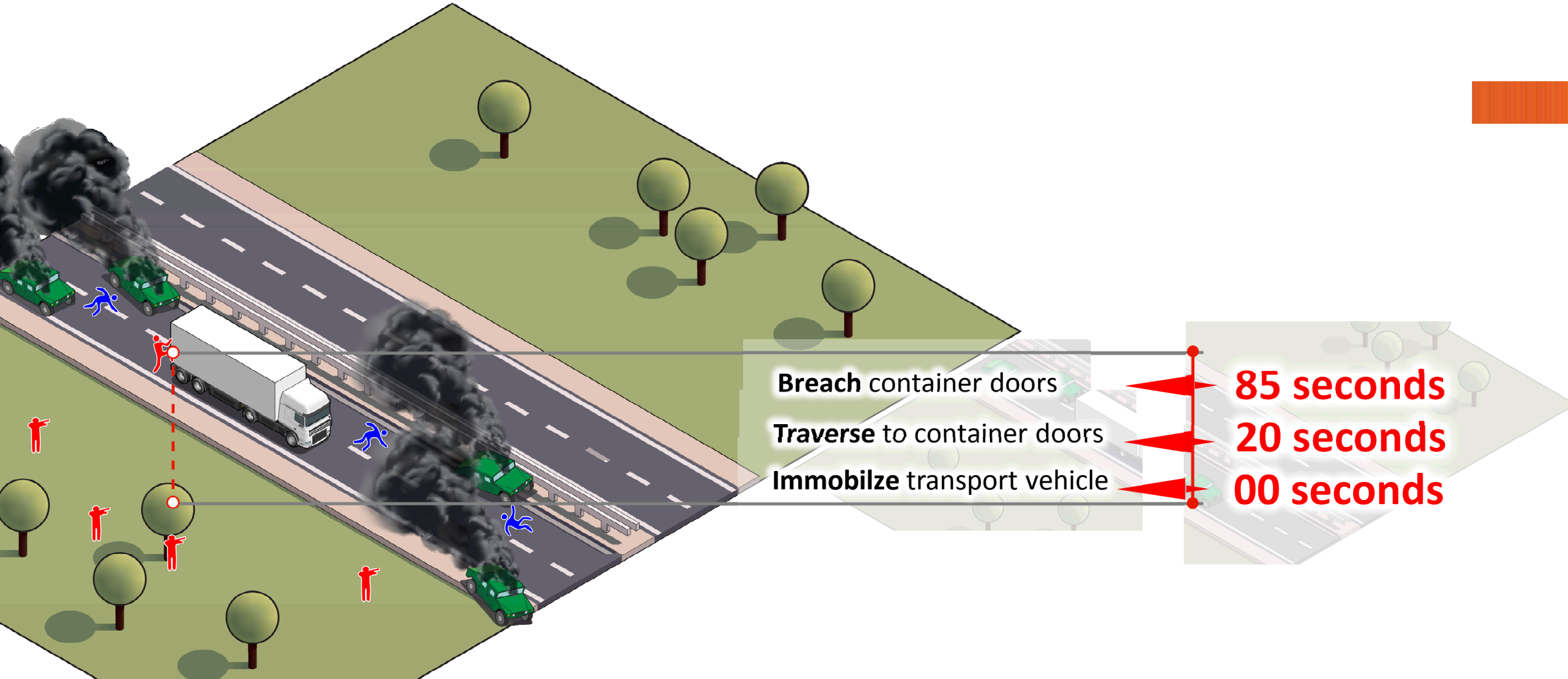
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Transportation Challenges

- Ensuring security for material in transit is more complex compared to that of fixed location
- While Material is in transit traditional Physical Protection System (PPS) elements change
 - Detection
 - Reliability and timeliness
 - Assessment difficulties
 - Delay
 - Starts at the vault (i.e. surface of the vehicle)
 - Limited number of delay barriers
 - Response
 - Not organic to the convoy
 - Extended response times depending on attack location
 - Inability to quickly locate convoy



Transportation Challenges

Radiological material requires protection regardless of its location

- Security of the material in transit must be equivalent fixed sites
 - Regulatory Framework
 - Material is under regulatory authority
 - Protect strategy against DBT or Threat Assessment
 - Containment
 - Denial (Access/Task)
 - Pursue
 - Recapture/Recover
 - Communication and reporting

Potential Failure Points

- Ineffective use of security system
 - Failure to ensure balance between detection, delay, and response
 - Relying heavily upon only one element
- Poor operational security
 - Failure to identify potential danger zones or choke points
- Poor route planning/selection
 - Using same routes and developed patterns of use



Questions?

