

The Smart, Connected Shoot House Work Site Setting Use Case Diagram

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| Opportunities | <ul style="list-style-type: none"> <input type="checkbox"/> Improved participant safety <input type="checkbox"/> Dynamic training scenarios with real-time adjustments <input type="checkbox"/> Improved team cohesion |
| Threats | <ul style="list-style-type: none"> <input type="checkbox"/> Loss of connectivity and monitoring <input type="checkbox"/> Lack of thorough testing and validation |



The Shooter moves through the shoot house and clears rooms based on the training scenario. This includes reacting to the Dynamic Targets and the changing Environment (lighting, sounds, etc.). The Shooter's "vitals" such as physical location in the shoot house, heart rate, and voice commands are relayed to the Range Safety Officer using audio monitors and pulse sensors worn by the Shooter.



Environmental conditions such as lighting, ambient noise, smoke, and video monitoring help change the scenario. Live video of the Shooter is constantly relayed to the Range Safety Officer and the RSO can alter the scenario by turning on/off lights in rooms or by introducing sounds or adding smoke to affect the Shooter.



Dynamic Targets

Targets can be dynamically positioned or changed during the scenario by the Range Safety Officer based on the Shooter's performance, behavior, and attitude.



Range Safety Officer

The Range Safety Officer monitors the safety of the Shooter including a visual of the Shooter, the voice commands or breathe rate of the Shooter, and heart rate. The RSO can alter positions of the Dynamic Targets or influence the overall shoot house Environment during the scenario.

