AUGMATE

Emergency Response

AR-assisted emergency response supports professionals in the field performing tasks in which risks of unexpected events are high and needs for coordination, safety and in-situ guidance are critical to the professional's ability to fulfill the objectives and remain safe. The emergency response system using Augmented Reality guides the professional through key workflows, procedures, and provides highly targeted information regarding dangerous conditions (e.g., gas and other explosives, armed opposition) from real time data and technical data repositories, together with other corporate assets such as product information.

AR Technologies

AR-assisted emergency response uses any technology for authoring, detection, recognition and rendering. Display options for emergency response that permit the professional to use both hands are highly preferred. The user interface for AR-assisted emergency response can be speech recognition, gesture recognition, eye-gaze recognition or touchscreen.

Integration of AR-assisted emergency response with geospatial data sets, building information models and databases, workflow and equipment maintenance technologies and systems is highly desirable. Advanced emergency response systems using Augmented Reality can support

responders in the field with remote expert interaction and feedback with integrated video conferencing and collaboration tools.

Benefits

- Rapid and consistent access by all emergency response professionals to most current records, instructions, policies or modules
- Reduced risk of delays in Emergency response due to lack of familiarity with new or old products or environments
- Increased safety for emergency responders in the field
- Reduced risk of errors in emergency response

Organizations

Emergency response organizations

include police, fire departments, emergency medical technical assistance, electricians and military.

Users

Emergency responders who must perform tasks in unsafe and highly unusual or new environments involving unfamiliar people, places, buildings, machinery, equipment, and other products.

Example Scenarios

- Fire fighters entering a building in which there are explosive or flammable materials can see where the sources of danger are greatest
- Emergency medical technician can perform treatment on patient in the field with assistance of remote experts

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