

# Developing Wearable (Wristband) and Unmanned Aerial Vehicle (Drone) Advanced Technologies in Mass Casualty Incident (MCI) Response: The NIGHTINGALE PROJECT

## Abstract

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## Abstract

The NIGHTINGALE PROJECT aims at transforming the landscape of Mass Casualty Incident (MCI) response by seamlessly incorporating cutting-edge technologies. At its core, this initiative leverages advanced solutions, including wearable wristbands and unmanned aerial vehicles (drones), to enhance the operational efficiency and effectiveness of MCI response teams. These technologies are designed to provide real-time data collection, communication, and coordination capabilities, offering invaluable support for first responders in chaotic and resource-constrained MCI scenarios. The successful integration of such innovative technologies within the complex operational context of MCI handling poses a series of challenges that hold the potential to reshape the existing paradigms. Therefore, NIGHTINGALE users have performed a thorough analysis of the widely operated protocols and discussed common denominators of MCI prehospital response in light of these new technological solutions, with the objective of translating recommendations into practice.

**Learning Objectives:** Gain a comprehensive understanding of the cutting-edge technologies (such as wearables and drones) that can potentially be integrated in prehospital MCI response. Learn how these technologies operate and their potential benefit in enhancing MCI response. Understand challenges and implications of technology integration into the complex operational context of MCI handling.