



European research project NIGHTINGALE brings leading technology providers and first responders to Berlin

The EU-funded NIGHTINGALE project is developing a novel toolkit for emergency medical response

The toolkit will improve triage and pre-hospitalisation services by increasing efficiency and effectiveness of handling victims whilst boosting awareness, collaboration and coordination of the responders

The project brings together 23 partners from 11 EU member states and associated countries including leading technology providers and medical responders specialising in emergency medicine and handling mass casualty incidents

24th October 2022

The NIGHTINGALE project team, its advisory board and external experts gather in Berlin Messe this week. The project's 2nd Roundtable and 2nd Plenary meeting are hosted by NIGHTINGALE project partners, the [European Society for Trauma & Emergency Surgery \(ESTES\)](#) and [ASTRIAL GmbH](#) amidst the German Congress of Orthopaedics and Traumatology, [DKOU 2022](#).

The purpose of the meetings is to conduct focused discussions to support the technology development, share status updates and discuss next steps in the context of the upcoming testing and validation exercises.

"We are essentially creating an innovative set of technological tools for emergency medical response to upgrade modern pre-hospital life support and triage. The NIGHTINGALE toolkit will provide first responders with novel, affordable and customised medical response tools and services as part of their operational assets." says NIGHTINGALE Project Manager Dimitra Dionysiou, from the Coordinating Partner, the Institute of Communication and Computer Systems (ICCS) in Athens, Greece.

The three-year project, funded by the European Commission's Horizon 2020 research and innovation programme, was launched in October 2021 and has just entered its second year.

The technologies under development are co-designed by the end user and technical partners of NIGHTINGALE and will undergo extensive testing, evaluation and validation by diverse groups of medical and non-medical responders. A robust training programme will help end users familiarise themselves with the broad range of components and capabilities of the toolkit.

Honouring the legacy of Florence Nightingale, who as a statistician and founder of modern nursing first developed a basic triage system in the 1800s, the NIGHTINGALE project will further upgrade triage and pre-hospitalisation services for emergency medical response thanks to its unique set of smart technologies.



ect has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement No. 101021957.

Press release

More information:

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Full overview of Project Partners can be seen [here](#).

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Notes to the Editor

NIGHTINGALE'S core objectives

Upgrade evaluation of injured and affected population (triage) using digital identification, traceability, continuous monitoring, and accurate classification of medical conditions

Optimise pre-hospital life support and damage control and enhance utilisation of assets, resources and capacities using AI-based solutions

Enable shared response across emergency services and communication between emergency teams and with victims by developing augmented reality tools for first responders

The NIGHTINGALE Toolkit

NIGHTINGALE will develop a novel integrated toolkit for emergency medical response. This toolkit will be designed for emergency medical services and non-medical civil protection agencies, including fire brigades, police, search and rescue personnel, volunteers, and citizens.

The toolkit will go through extensive testing in the framework of a rich Training, Testing and Validation Programme, which includes table-top exercises, laboratory integration tests, small-scale field tests and full-scale field validations.

About ESTES

Our aim is to promote interest, knowledge and quality of care in emergency and trauma surgery.

ESTES was formed in 2007 by the merger of the European Association for Trauma & Emergency Surgery and the European Trauma Society. Since then it has continued to promote best practice in the provision of emergency and trauma surgery from pre-hospital care through diagnosis, intervention and intensive care to rehabilitation. This is underpinned by international collaboration, scientific research, development and delivery of training courses, and the work of the specialist sections (Disaster & Military Surgery, Emergency Surgery, Polytrauma, Visceral Trauma as well as Skeletal Trauma and Sports Medicine).

ESTES holds an annual scientific meeting – the European Congress for Trauma and Emergency Surgery (ECTES) and produces a bi-monthly journal – the European Journal for Trauma and Emergency Surgery (EJTES). ESTES also provides practical support through Grants and Fellowships.

About ASTRIAL GmbH

The company is developing integrated Geospatial Command and Control solutions for Security and Public Safety applications for police, coast guard, emergency medical service, civil protection and fire & rescue operations, critical infrastructure protection, transportation security and border monitoring.

Our mission is to provide integrated solutions for the Security and Safety business sectors that enable the fusion, orchestration and seamless access of vast amounts of complex data from disparate information sources, tools and methods to coordinate the interaction between people, technologies, and responses.

Project Partners

