Key Benefits

Mixed Reality Training Experience
Realistic & haptic training with active & immersive learning in a safe environment

Flexibility
Train any tailored scenario in "impossible" environments and adapt the scenario live

Biosignal Measurement
Learn to cope with stress & enhance resilience to better prepare for real-life

Performance Evaluation
Biosignals, training behaviour & scenario progress for automated training review to discuss results more effectively with trainees

High End-User Involvement
MED1stMR was developed with European medical first responder organisations

Cost Efficient
Resource saving preparation and execution (time, money, materials, human resources, etc.)

A multidisciplinary consortium with 19 partners from 9 European countries

Coordinator:

- **AIT- Austrian Institute of Technology GmbH Center for Technology Experience, AT**

- Ruprecht-Karls-University Heidelberg, DE
- Umeå University, SE
- University of Bern, CH
- Montanuniversität Leoben – Zentrum am Berg, AT
- Refense AG, CH
- PLUX, Wireless Biosignals , PT
- D2D - Medical-X, NL
- IDENER AI Research & Development , ES
- USECON – The Usability Consultants, AT
- Mindconsole, AT
- Hellenic Rescue Team, GR
- Johanniter Österreich Ausbildung und Forschung, AT
- SERMAS - SUMMA 112, ES
- University Clinic Heidelberg, DE
- Region Jämtland Härjedalen, SE
- Johanniter International, BE
- Campus Vesta, BE
- Hochschule Furtwangen University, DE

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MED1stMR
Mixed Reality Training

Revolutionising medical first responder training
Cutting-edge mixed reality (MR) solution by European H2020 Project MED1stMR integrates virtual environments, biosignals for stress measurement, patient simulation manikins, and AI for unparalleled mass casualty incident preparedness.

video

Key Results

Cutting-Edge Mixed Reality Technology
Reshaping the landscape of medical first responder training.

Real-World Medical Simulation Manikins
Integrated with virtual environments, providing a realistic & multi-sensory immersive training experience.

AI-Based Performance Measurement & Smart Scenario Control
AI for advanced performance evaluation and intelligent scenario control, enhancing the effectiveness of training.

End-User Focus
MED1stMR delivers tangible and solution-oriented results, culminating in a ready-to-use mixed reality training solution for medical first responders jointly developed and tested with the end-user partners consisting of 5 medical first responder organisations and 1 clinic from all over Europe - tested in 6 field trials with approx. 250 trainees.

Key Components

1 Low Invasive VR Equipment
5 sensors & Head Mounted Display, headset

2 Biosignal Measurement

3 Simulation Manikin

4 Trainer Dashboard View
Real time scenario control performance visualisation

5 Trainee View
Virtual environment MCI scenario & patients

6 Debriefing
Evaluation, feedback, learning

7 High-End Backend
AI scenario control, performance calculation, datafusion & provisioning