

Funding Project NEXT Reality

Immersive training environment for offshore safety training (NEXT Reality)

BMBF funding project for interactive technologies for health and quality of life as part of the funding priority "Interactive systems in virtual and real spaces - innovative technologies for the digital society"

Motivation

Working on wind turbines or offshore platforms is demanding and involves constantly changing loads. It requires the consistently safe handling of risks and control of emergencies.

Today's training on how to deal with hazards is primarily based on extensive scenarios under real conditions, which involves a lot of effort and high costs.

Goals and Approach

The Next Reality project aims to use innovative virtual reality technologies (VR) to enable the training of cognitive and motoric skills in stressful situations without endangering the participants.

VR applications, combined with environmental influences and sensory stimuli, will prepare emergency services in a safe environment to deal with emergencies in different scenarios.

The aim is to explore the advantages and limits of combining virtual technologies with real training environments. The psychophysical, ethical and legal effects, as well as the acceptance of new training methods, are further research topics.

Innovations and Prospects

Next Reality enables research into VR technologies to improve safety and action skills in a stressful training environment and makes the effects monitorable, measurable and evaluable.

As a result, this technology can be used in other work environments as well in the future.



Immersive VR safety training
(Source: OffTEC Base GmbH)

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Project Duration

1st July 2021 – 30th June 2024

Project Partners

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- Meilenstein Digital GmbH, Augsburg
- Fraunhofer Institute for Computer Graphics Research IGD, Rostock
- Christian-Albrechts-Universität zu Kiel - Institute for Economic and Tax Law

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