

LAKUS – Iransterto rescue organizations

LARUS-PRO

Motivation

The project LARUS: Sea rescue operation support by unmanned aerial systems, demonstrated the basic suitability of an unmanned flight system for automated operations during the maritime search and rescue (Project duration: 2016–2019, BMBF call Civil Safety -Innovative Rescue and Security Systems). Further development will involve system adaption for other civil protection scenarios and operations like urban and wildlife search and rescue, reconnaissance in the event of forest fires, natural disasters or CBRNE incidents.

Objective and procedure

The LARUS-PRO project aims to integrate the system into the operational and tactical standard processes of the rescue service and civil protection organizations. including being technically adapted and optimized. For year-round and location-independent operational capability, the aircraft has to be made suitable for all weather conditions. In addition, the previous flight time should

be doubled and a modular concept for different payloads has to be implemented. Since the deployment of the system takes place well beyond the drone pilots' field of vision, an automatic collision avoidance system will be developed. These are the requirements to ensure the full integration into the airspace.

Innovations and perspectives

LARUS-PRO will provide land and maritime rescue services as well as civil protection with an innovative and versatile means of operation that is available all year round, regardless of the scenario, time of day, weather and location.

Funding

LARUS - Transfer to rescue organizations is a project funded by the Federal Ministry of Education and Research. The project duration is from 2021 to 2023 as part of the call - Innovations in the field - flagship projects for civil security.

Partners

Rescue organizations



Deutsche Gesellschaft zur Rettung Schiffbrüchiger seenotretter.de

Industry



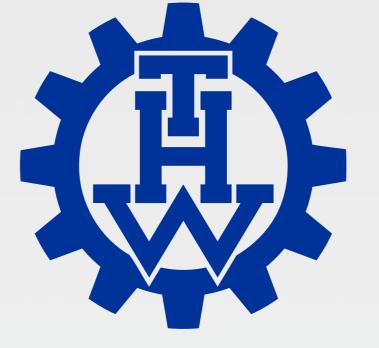
Hanseatic Aviation Solutions GmbH

hanseatic-avs.de



Bayerisches Rotes Kreuz

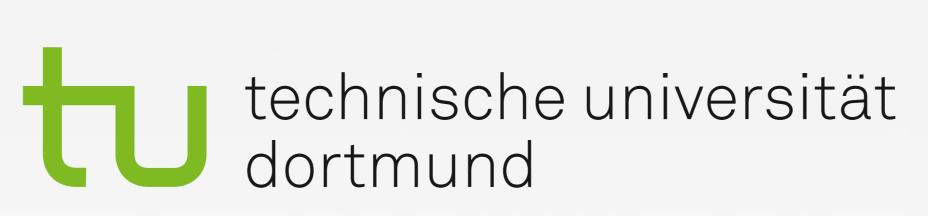
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Bundesanstalt Technisches Hilfswerk

thw.de

Research institutes



TU Dortmund Lehrstuhl für Kommunikationsnetze cni.tu-dortmund.de



RWTH Aachen Lehrstuhl und Institut für Flugsystemdynamik www.fsd.rwth-aachen.de

Website

Funding

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