



The ZIM Innovations Network USAI - still looking for partners

The use of autonomous systems is seen by many experts as a technical revolution due to its disruptive potential. The associated change will not only take place on the road or rail but will also be found in the form of **autonomous systems (robots, flying drones, and water drones)**, for inspections, monitoring critical infrastructure, or in production and logistics. Due to their special characteristics, these **systems** will bring fundamental changes to the economy and society. Already today, **technologies** in computer vision, sensors, robotics, artificial intelligence, machine learning, control engineering and validation of autonomous systems are well advanced and allow different levels of autonomy for specific applications. It is therefore time to take a close look at the developments, possibilities, and implications of **autonomous systems**.

Aim of the network

In the **USAI network (Unmanned Systems for Autonomous Inspection)**, the development of **autonomous systems** in higher technology maturity levels (TRL) in **aeronautical** and **marine engineering** is initiated in cooperation between companies as well as research institutions as scientific partners. The competences of the partners are in the fields of robotics, sensor technology, validation of AI, marine technology, inspection using aerial drones, renewable energies, artificial intelligence, and aviation. Current development priorities can be found at the following address: <https://www.usai-netzwerk.de/success-projects/>

USAI helps in the realization of new products, especially for highly specialized small and medium enterprises from the European area, which are active as manufacturers and developers of tailor-made, customer-specific solutions.

Advantages of network membership

The **USAI network** actively supports participants in their specific innovation process. As a member of the **USAI network**, you are part of an expert platform, and benefit from EurA's years of experience in **innovation management**. This concerns the exchange with users, the discussion of project ideas, the composition of project consortia the preparation of project outlines and the application for **funding**. Within the network, all the partners' ideas are coordinated, prioritized and

evaluated in terms of market potential. The **network** is set up internationally, so that new contacts can be made across industries and technologies to France, Switzerland and Denmark.

Facts & figures of the network

Start phase1:	1st March 2020
Start Phase2:	1st September 2021
Funding phase 1:	190.000€
Funding phase 2:	299.383€
National partners:	AirSenso GmbH HankeKonsek Ingenieurbüro Hanseatic Aviation Solutions GmbH Hentschel System GmbH mb + Partner Multikopter.de Nordwig Werkzeugbau GmbH OffTEC Base GmbH & Co. KG Rademacher Composites GmbH Unisphere GmbH
International partners:	Universität Aalborg Book1drone CertX AG Creative Sight ID4Car UPTEKO ApS YoGoKo
Associated Partners:	TT-SIUS
Research facilities:	Fraunhofer-Institut für Graphische Datenverarbeitung IGD GEOMAR Helmholtz-Zentrum für Ozeanforschung Kiel

The way into the network

We are still looking for partners for the **network USAI**, who are interested in a cooperation in the above-mentioned fields or as users!

If you have any questions or are interested in the **USAI network**, please feel free to contact us at any time!