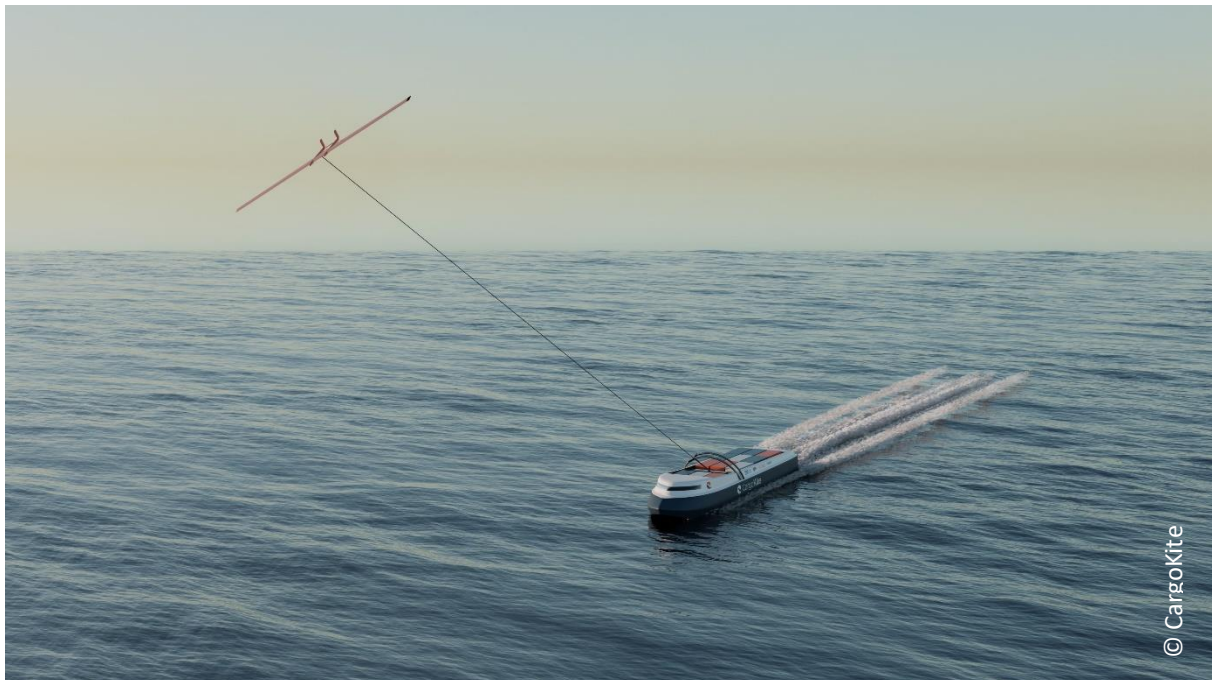


PRESS RELEASE

Project kickoff at SMM 2022:

Fraunhofer CML presents SCEDAS project for industrial customer CargoKite

Hamburg, September 7, 2022 – At the Fraunhofer booth at SMM 2022 (Hall B6, 327), a project team from Fraunhofer CML will present the exhibit SCEDAS. The intelligent system supports crew planning decisions. Its practical application takes place in collaboration with the maritime start-up CargoKite which specializes in innovative solutions for emission-free maritime logistics.



How the CargoKite ships will look one day

The product: an innovative planning aid

As a decision support system, SCEDAS provides answers to the increasingly complex planning of personnel requirements and crew deployment on board. Powerful mathematical algorithms are used to support ship managers with personnel requirements that are calculated according to the type of ship and planned voyage. The changing conditions in the maritime industry make it difficult to coordinate personnel planning solely by relying on in-house knowledge and experience. SCEDAS can provide support, especially for new concepts for which there is yet a limited amount of experience.

The project-related application at CargoKite

The logistics company CargoKite is engaged in the development of small, autonomous ship units that are moved by kite propulsion, i.e. with the help of wind. This enables flexible and emission-free transport of goods. Despite the autonomous control, the personnel must be appropriately trained: This applies in particular to the operation of the ships and, initially, also to their guidance. Optimal crew planning of the ships is a key factor for safe and cost-efficient implementation of the project.

This is where SCEDAS comes in, which can adapt to the specific conditions of the project and thus assign adequate personnel to appropriate tasks at the right time. With the help of SCEDAS, CargoKite can calculate in the important early phase of the project how a crew for the novel ship might look on its way to autonomy.

Among other things, the system takes the special qualifications of individual crew members into account and relates these to the tasks to be performed. CargoKite can thus examine its own concept more specifically with a view to operational realization and analyze the added value for future customers.

Media representatives are cordially invited to view this example of mutually beneficial cooperation between research and maritime practice live at the 30th anniversary SMM and to talk with experts from Fraunhofer CML.

Date: Thursday, September 8, 2022, 2 pm.

Fraunhofer CML

The Fraunhofer Center for Maritime Logistics and Services CML develops innovative solutions for the maritime sector and the maritime supply chain. We support companies and institutions from shipping, port management and logistics in initiating and implementing future-oriented innovations and processes. In the four research fields of Maritime Logistics, Port, Shipping and Autonomous Maritime Systems, our employees translate the latest scientific findings from our diverse research activities into practice-oriented applications.

CargoKite

CargoKite is a start-up company from the maritime logistics industry that focuses on the development of 100 percent emission-free micro-cargo ships, which, in addition to decarbonization, also serve to make shipping more flexible. The Munich-based company is represented by a three-person founding team consisting of Amelie Binder, Marcus Bischoff and Tim Linnenweber. The specially developed ship concept is patent pending and envisages propulsion based solely on wind energy. According to the company, it can be considered "The Sailing Ship of the 21st Century" - a ship powered solely by wind, but with the reliability, scalability and speed to meet the needs of the industry in the 21st century. The first production vessel is said to have a transport capacity of 16 containers.