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Maritime Logistics
At the Fraunhofer Center for Maritime Logistics and Services CML in Hamburg, the maritime transport chain, the safety of maritime traffic and the optimization of ship management are the focus of our research. The use of ship handling simulators and planning tables is part of our daily work. A highly motivated, interdisciplinary team of researchers works here for companies in the maritime sector and in international research projects, developing innovative solutions for today’s challenges.

Maritime Graphics
Visual computing is the image- and model-based information technology that combines computer graphics and computer vision. We turn information into images and extract information from images. Our researchers at the Fraunhofer Institute for Computer Graphics Research IGD in Rostock are focusing on visual computing solutions for the maritime sector. This includes AR and VR for maintenance, assembly and engineering for the maritime industry, underwater image and video processing and interactive 3D modelling for underwater use cases.

Maritime High Frequency Physics
In its role as one of the leading European radar institutes, the Fraunhofer Institute for High Frequency Physics and Radar Techniques FHR in Wachtberg conducts extensive research in the area of high frequency and radar techniques. The research activities at FHR focus on imaging systems and sensors for highest precision range or position determination. Electrical engineers, physicists and mathematicians work together to develop leading edge radar systems and technology. Join us!

Innovative Production Technologies
The main scope of the Fraunhofer Research Institution for Large Structures in Production Engineering IGP in Rostock covers the fields of production and manufacturing of large structures. Concepts for product and process innovations are developed and realized in research and development projects. Those are conducted with our cooperation partners in diverse future branches such as ship and steel construction, energy and environment technology, aviation, railway and utility vehicle manufacturing as well as machine and plant construction.

Structural Durability and System Reliability
The Fraunhofer Institute for Structural Durability and System Reliability LBF in Darmstadt conducts research on around 11,560 square meters of laboratory and test area in the fields of durability, adaptronics and system reliability. Together with the Department of System Reliability, Adaptronics and Machine Acoustics SAM at TU Darmstadt, we work on tailor-made solutions for all safety components in shipbuilding. Forward-looking projects deal, for example, with the topics of lightweight construction or noise and vibration control.