

FRAUNHOFER CENTER FOR MARITIME LOGISTICS AND SERVICES CML

# 10 YEARS OF INNOVATIVE RESEARCH FOR THE MARITIME ECONOMY

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PRESS RELEASE

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## The Fraunhofer CML celebrates its Anniversary

**Hamburg, 7. Oktober 2020.** Founded in 2010 as the first Fraunhofer Institute in Hamburg at the Technical University, the Fraunhofer Center for Maritime Logistics and Services CML celebrates its tenth anniversary today with a Senate reception in Hamburg's City Hall. The successful development of the CML is perceived and rewarded in Hamburg and beyond, which the scientists are particularly pleased about. A new research building in Harburg's inland port is under construction and will be ready for move in next autumn. In addition, the Fraunhofer CML is supported by the Federal Republic of Germany and the states of Hamburg and Mecklenburg-Vorpommern with the innovation impulse "Smart Ocean". The funding will enable the CML to expand its research priorities and technologies over the next five years. Hence the CML is on the right track to develop future-oriented innovations for the maritime industry.

Welcome speeches and congratulations were delivered by Hamburg's Senator for Science Katharina Fegebank, Professor Raoul Klingner from the Fraunhofer Gesellschaft, Professor Andreas Timm-Giel from the Hamburg University of Technology, Dr.-Ing. Hermann Klein from the Schiffbautechnische Gesellschaft and the founding fathers, Professor Uwe Clausen from Fraunhofer IML and Professor Carlos Jahn, Director of CML.



The keynote speakers at the Senate reception to mark the 10th anniversary of the Fraunhofer CML: Professor Andreas Timm-Giel from the Technical University of Hamburg, Professor Carlos Jahn, Director of the CML, Hamburg's Science Senator Katharina Fegebank, Dr.-Ing. Hermann Klein from the Schiffbautechnische Gesellschaft, Professor Uwe Clausen, Director of Fraunhofer IML and Professor Raoul Klingner from the Fraunhofer Gesellschaft © Fraunhofer CML

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**Science Senator Katharina Fegebank:** "With its diverse research activities, the Fraunhofer CML is an important partner and source of inspiration for the maritime industry in Hamburg. This is where environmentally friendly and at the same time highly innovative concepts for a modern, efficient port location are developed - we want to further strengthen this future-oriented knowledge transfer by expanding the Fraunhofer CML. The Fraunhofer CML is also of particular importance for the city because it was the first Fraunhofer institution in Hamburg to set the course for the joint success story of the Fraunhofer family and our research location. I congratulate the Fraunhofer CML on its anniversary!"

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**Prof. Raoul Klingner, Director Research of the Fraunhofer Gesellschaft:** "Even in the current uncertain times, the momentum for innovation and change towards more sustainable growth must not be lost. Innovation and a rapid transfer of new technologies from research to application have never been more important than today. As the economy recovers, the maritime sector must and will also master the transformation to a green and digital economy through innovation."

**Prof. Uwe Clausen, head of Fraunhofer IML:** "Maritime transport chains are the backbone of the global economy based on the division of labor. For ports and the shipping industry, the Fraunhofer CML has now been working for 10 years on impressive and internationally visible projects. For the future I wish the CML many innovative customers and good working conditions in a great new building".

**Prof. Carlos Jahn, Head of Fraunhofer CML:** "10 years of Fraunhofer CML: These were 10 highly dynamic, eventful years with numerous innovative impulses for port, shipping and logistics. The Hanseatic City of Hamburg proves to be the ideal location for the Fraunhofer CML and the expansion of applied research in the maritime sector. With the research fields Maritime Logistics, Port, Shipping and Shipbuilding we are on the right track to develop future-oriented and practical innovations together with the maritime industry and our partners in science. We are looking forward to this at the Fraunhofer CML and are excited about the next 10 innovative years".

In the coming years, CML researchers plan to work on integrated transport chains with synchronized processes in the field of Maritime Logistics. Here, the use of large amounts of data is of particular importance. With the targeted analysis of traffic, weather and transport information, for example, logistics processes can be synchronized across companies, waiting times can be avoided and the economic efficiency and environmental friendliness can be increased.

In the research field Port, the focus will be on the development of solutions for automation and for emission-free transport and handling systems. To this end,

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the latest technologies of digitization, image processing and image recognition will be used, such as computer vision and augmented reality applications for process support. The use of sustainable energy in the port environment will also gain in importance.

For the Shipping Industry, research will focus on the efficient and sustainable management of shipping fleets using artificial intelligence. In particular, decision support systems for specific questions of fleet management, maintenance and service are developed from available data sets. Thus, a higher planning quality, the reduction of operating costs as well as a better preparation of stays for repairs in shipyards will be achieved.

In the research field of Shipbuilding, CML wants to develop new navigation technologies for autonomous shipping, e.g. for unmanned workboats. In the future, these can provide innovative services in connection with underwater vehicles or flying drones. These services include inspections of ship hulls or quay walls and the measurement of sea and river beds, but also the finding, identification and collection of plastic waste in ports and on coasts.

Even if the current situation due to the Corona Pandemic does not allow for a boisterous celebration together with all employees at the moment, the mood at the CML is very good: With the move to the modern building with many new workplaces and the implementation of the innovation impulse "Smart Ocean", the CML is at the beginning of a new era.

**About Fraunhofer CML**

The Fraunhofer Center for Maritime Logistics and Services CML develops and optimizes processes and systems along the maritime supply chain. We support private and public-sector clients with the initiation and realization of innovations through practical research projects in the fields of shipping, ports and logistics.

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