



MDEM as a member of PU "Ukrainian Maritime Cluster (UMC)" took part in the Regional Brokerage Event "Boosting Black Sea Blue Biz - 4BIZ"



Following the schedule of 4BIZ grant project the Regional Brokerage Event "Boosting Black Sea Blue Biz - 4BIZ" took place in the Ovidius University of Constanta. The event aimed to offer a framework for B2B, B2G, B2C collaborations by facilitating the exchange of Blue Business ideas, best practices and knowledge in order to identify new directions to be followed for conceiving successful entrepreneurial activities.

The Brokerage Event was intended to present the intermediate results of the 4BIZ project running at a full speed, as well as to share new opportunities and ideas for further participation

of companies in the upcoming EU grants, enable to establish direct business contacts between participants for the new projects related to the blue economy and Black Sea offshore infrastructure development. It should be highlighted that the event was attended by Sonia Karasavvidou, Project Manager at CINEA (European Climate, Infrastructure and Environment Executive Agency).

Ukrainian team was led by the official partner of 4BIZ project - PU "Ukrainian Maritime Cluster (UMC)" and presented by following representatives : Marine Design Engineering Mykolayiv, GolfStream (Ihor Lysytskyi, a member of PU "UMC" Supervisory

Board), C-Job Nikolayev, Amico Digital and National Technical University of Ukraine “Igor Sikorsky Kyiv Polytechnic Institute”. In person from MDEM side event was attended by Olena Zhukova (UMC Executive Director, MDEM Director), and Stanislav Seleznov, MDEM Head of Engineering Services Department, DWR.

In the second panel of the event Stanislav Seleznov made a presentation named “Energy Efficiency Improvement of Inland Navigating and Maritime Vessels” and also participated in a number of online B2B matchmaking meetings. The speaker on behalf of MDEM colleagues and their families started his story with appreciation Romanian hospitality: “Some of our colleagues are still living in Mykolaiv. It's very close to the frontline. Some of our colleagues are located in the West part of Ukraine (Uzhgorod), and the rest including myself are living and working in Galati. So, thanks again to Romania, who have “giving us this shelter”, we have an opportunity to work and to develop.” Then presentation was dedicated to the energy efficiency and its increasing, optimization of operational modes and specifications, and, as a result, economy of fuel and resources.

Stanislav shared his experience on some of Damen and MDEM vessels, related to the innovative technologies of the Revolution 4.0. He pointed out that this is one of the missions of 4.0 industry - to raise the efficiency at all phases of the product lifecycle and search for the ways to achieve this, and also to minimize impact on the environment. The presentation dealt with the big data analysis, predictive maintenance, and machine learning, as acknowledged tools of the Industrial Revolution 4.0. This tooling is perfect for the optimization and efficiency improvement both in the operation of existing vessels and in the design of new serial types of vessels.

As an example the speaker referred to the digital platform Triton by Damen. Triton team collaborates with MDEM experts that contributed in the development of this remarkable and innovative digital platform. To put it simple it's the digital platform where MDEM engineers receive all the signals, gather all the information about the vessel and not only about the operational modes, but also about the navigational and weather conditions, - so, almost everything that could have impact on the vessel's operation, efficiency, and fuel consumption. These signals come from the vessel being equipped with billions of sensors, and then are transmitted via GSM or Starlink, accumulated in the cloud and being processed accordingly. Afterwards MDEM team prepares the analytic reports using data from the cloud and proposes the best solutions. This MDEM software was made in Python. So Damen and MDEM also offer their clients flexible approach either to get the results of investigation, or to monitor the vessel operation in a real time mode.

Stanislav concluded: "We keep on going with our investigations. I believe at a moment it's one of the most interesting and innovative developments. Moreover, raising efficiency means also decreasing the CO2 emission, underwater radiated noise and other impact to the environment. So we were not only moving forward in our investigations, we are also taking care of the environment and contributing into blue economy."

We highly appreciate the activities of team that organized this remarkable event "Boosting Black Sea Blue Biz - 4BIZ". Many thanks for creating this platform for dialogue and exchange of Blue Business proposal ideas. Together we are pushing ahead the Blue Economy raise and looking forward to the next opportunity to share our experience. ◀◀

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