

Marine Technology Ltd. (MT) is a non-profit research organization that began its operations in 1998. The primary goal of the activity is to independently conduct basic research, industrial research or experimental development work in the field of natural and technical sciences. The research results are disseminated on a wide scale through publication in scientific journals, mainly open access journals, indexed in the global Scopus or Web of Science databases.

**List of selected R&D projects financed by NCBR and implemented independently by Marine Technology in recent years:**

- ✓ **HydroDron** – „Development of autonomous/remotely controlled floating platform dedicated to hydrographic measurements in limited waters”. POIR.01.02.00-00-0074/16. 2016-2019. 2 560 662zł (NCBR: 2 027 937.60zł). Project Manager prof. dr hab. Andrzej Stateczny.
- ✓ **HydroNav3D** – „The system of autonomous navigation and automatic 3D hydrography of the unmanned floating platform”. POIR.01.01.01-00-0899/18. 2019-2023. 2 948 750zł (NCBR: 2 224 950zł). Project Manager prof. dr hab. Andrzej Stateczny.
- ✓ **4DShoreMap** – „Innovative multidimensional and multitemporal coastal zone monitoring system using an autonomous unmanned vessel”. LIDER 0026/L-12/2020. 2022-2025. 1 500 000zł. Project Manager Marta Włodarczyk-Sielicka PhD.
- ✓ **INNOBAT** – „Innovative autonomous unmanned bathymetric monitoring system for shallow waterbodies”. LIDER 0030/L-11/2019. 2021-2024. 1 500 000zł. Project Manager Mariusz Specht PhD.
- ✓ **SHREC** – „Automatic recognition and identification system for ships in video surveillance areas”. LIDER 0098/L-8/2016. 2017-2021. 1 200 000zł. Project Manager Natalia Wawrzyniak PhD.
- ✓ **MOBINAV** – „Mobile Inland Navigation”. LIDER/039/693/L-4/12/NCBR/2013. 2013-2016. 819 720zł. Project Manager Witold Kazimierski PhD.





The company has extensive scientific and practical experience in the construction of geoinformatics systems and hydrographic measurements. The most important works include:

- ✓ Execution of an order for services related to research and measurement using an autonomous underwater vehicle for the project „Monitoring and Observation System for Port Areas Using Floating Unmanned Mobile Research Platforms" (**MPSS**), financed under the NCBR POLNOR program for the Port of Gdynia Authority, 2 091 000zł (2021-2023).
- ✓ Designing navigation infrastructure on sea and inland waters, including the River Information System (RIS). MT developed the Functional and Utility Program for the Full Implementation of the Border and Lower Odra RIS (2015) and the Analysis of the Identification of Needs for the Implementation of the CEERIS System in the Area of Operation of the RIS System in Poland (2024) for the Inland Navigation Office in Szczecin.
- ✓ Many years of research in the field of electronic navigation charts (ENC) developed for the RIS system. MT developed the first inland electronic navigation charts (IENC) for the Lower Oder in Poland, currently updated and made available by the RIS Center in Szczecin (2013-2015).
- ✓ Bathymetric and sonar measurements supporting the construction of LNG in Świnoujście: before, during and after deepening (2013-2015) and bathymetric, sonar and environmental measurements including taking samples of the bottom, water and physicochemical profiles as part of the MPSS project in the Port of Gdynia (2021-2023).
- ✓ Carrying out an audit and FUP as part of the development of the system project „Regional Spatial Information Infrastructure of the West Pomeranian Voivodeship” for the Marshal’s Office (2015).
- ✓ Preparation of the technical design of the Smart Buoy (SMB) system in accordance with the assumptions of the conceptual project entitled Efficient, Safe and Sustainable Traffic at Sea – EfficienSea 2 financed under the H2020 program (2016) and Development of operational recommendations and operating parameters of the R-Mode terrestrial radio navigation system using the land infrastructure of DGPS and AIS stations for the Maritime Office in Gdynia (2018).
- ✓ Tests using our own 3D sonar to check the effectiveness of detecting lost fishing gear using acoustic methods in the Baltic Sea as part of the international project „MareLitt Baltic” for WWF Polska (2018).

The company has a highly qualified staff of surveyors, hydrographers and navigators with the following qualifications:

- ✓ marine hydrographer category A (2 people),
- ✓ to operate vessels on sea and inland waters,
- ✓ drone pilot flying within visual range up to 25 kg (NSTS-01/NSTS-02).

Marine Technology is the exclusive representative of HYPACK software in Poland and provides authorized training in this area.

Marine Technology has 3 of its own premises: headquarters in Gdynia Orłowo, branch in Gdynia Chwarzno-Wiczlino, branch in Szczecin Pogodno.

Marine Technology won the LEADER OF INNOVATION award in the Pomeranian Griffin Award (2022). The company was also awarded the Golden Anchor BALTEXPO distinction (2019).