

iRAFT

autonomous modular surface platform

TECHNOLOGIES

teleoperation & autonomous

Small size & easy logistics

addable battery blocks

up to 100 kg payload

follow me navigation

Modular & adjustable



Photo: Jonny Gos

APPLICATIONS



harbor services and maintenance



civil infrastructure

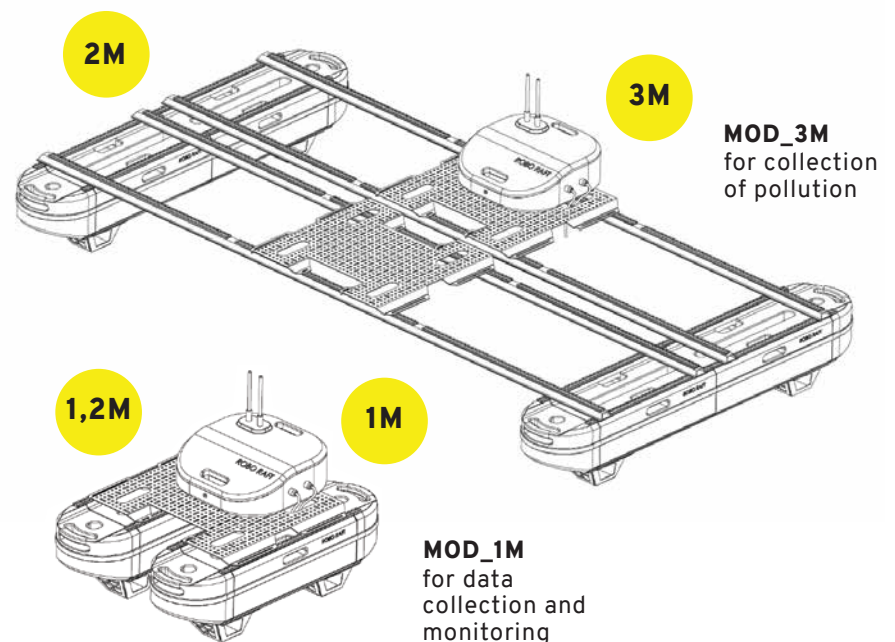


nature and biodiversity monitoring

MODULARITY

Choose a modular system set for:

- Flood monitoring and protection;
- Monitoring activities to improve knowledge of climate impacts;
- Prevent and reduce water pollution in industrial areas and ports;
- Adapt innovation ecosystems;
- Increase the quality of work for renewable energy sectors;



Email: info@nlab.lv
www.nlab.lv

Address: Floating house "NOASS", AB dambis, Riga, LATVIA, LV-1048

N-LAB
RESEARCH & DEVELOPMENT CENTRE

ABOUT

N-LAB is a creative platform which brings together industrial designers, extreme environment architects, robotics and electronics experts, with an aim to develop innovative robotic

solutions that perform inconvenient, dangerous or time - and resource-saving tasks for humans in challenging and extreme environments.



OUR EXPERTISE



Industrial design.

Starting with research, continuing with sketching, prototyping, 3D modeling.



Validation.

We have extensive experience in "field" testing of systems, both on water and on land.



Robotic and navigation systems.

Our team develops both land platform and water autonomous solutions including teleoperation, follow me modul etc.



Artificial intelligence and deep learning.

Lates project is related to recognition of track in unregular envirement.



Mehanic engineering.

We can design mechanical assemblies and details for CNC, 3D printing, molding or sheet bending.



Eletronic engineering.

Our team have competences to develop harware and software for eletronic systems and architecture.

ACTIVE PROGRAMS & PROJECTS

Polar program

N-LAB team together with leading Latvian polar researchers from Latvian University works on polar innovations and research program with the aim of developing a holistic system for the National Antarctic Research Station, including autonomous robotics platforms, design and architecture, alternative energy and communication systems.



Tags: hydrogen / digital twin / unmanned systems / polar architecture

N-LAB water test bed

Next to the research and development center N-LAB is a water test bed where designers, artists, scientists and innovators experiment, test and monitor water and urban related systems and inventions.



Tags: hydrogen / digital twin / unmanned systems / polar architecture

Unamended surface vehicle

The N-LAB team is developing an autonomous unmanned modular water platform "Gerr-X" with multifunctional application - monitoring of civil water structures, prevention of pollution, maintenance of trade ports.



Tags: Tags: hydrogen / unmanned systems / monitoring

Natrix UGV

In cooperation with the company "North Grip Innovation" and "Brasa Defense Systems", we are working on a support system for military personnel - the unmanned ground platform "Natrix", which is currently being tested in the Latvian army.



Tags: unmanned systems / defence

Biodiversity of lakes

N-LAB, together with Latvian water researchers, is developing a project whose goal is to implement a quick warning system related to the appearance of natural or human-caused harmful substances in lakes and rivers.



Tags: biodiversity / lakes / monitoring / water quality