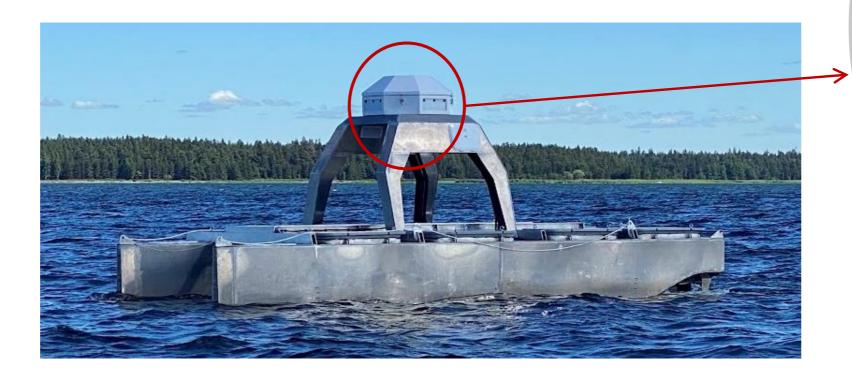




Artificial captain



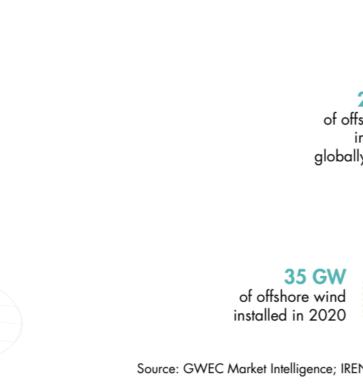
 eyes & brain of the vessel stand-alone hardware & software assembly • scalable for other vessels





Market

Unit: GW



MindCh<mark>i</mark>p



Closing the offshore wind gap by 2050

270 GW of offshore wind installations globally by 2030

Source: GWEC Market Intelligence; IRENA World Energy Transitions Outlook 2021.

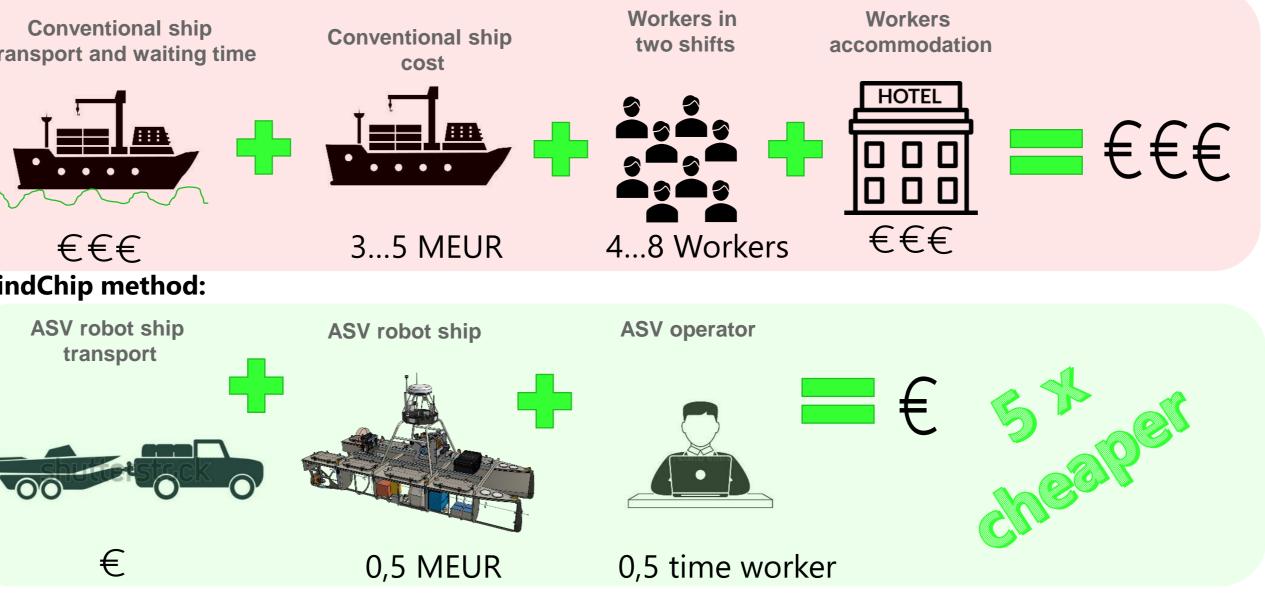
2020

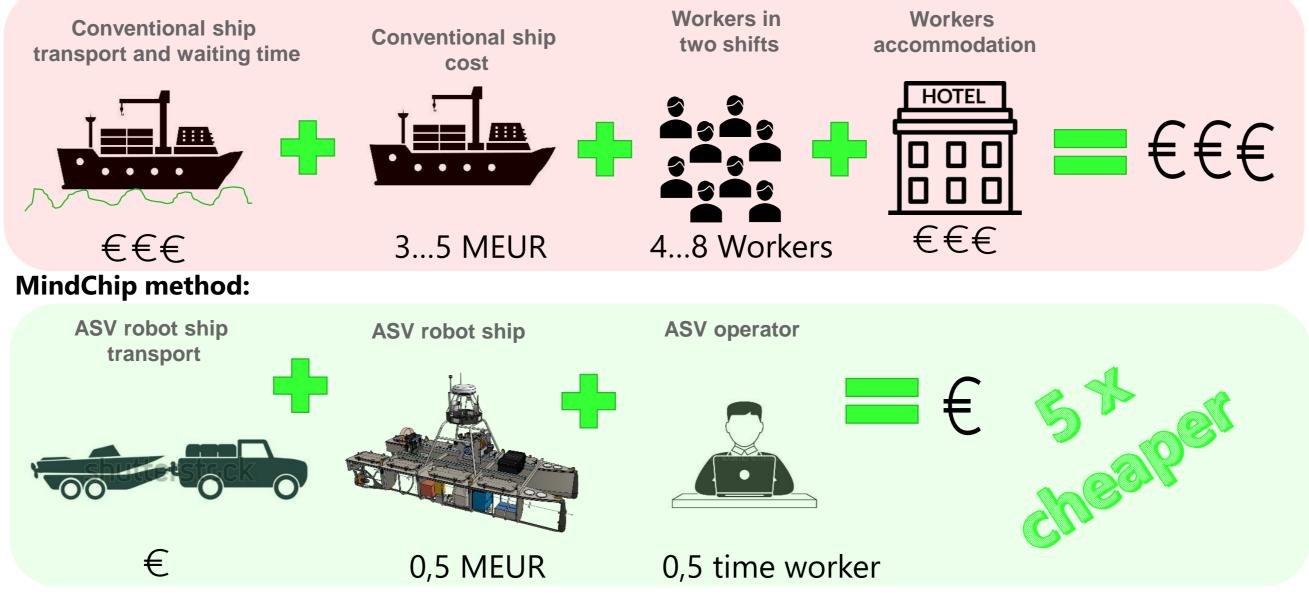
x 8.5

2030

2050

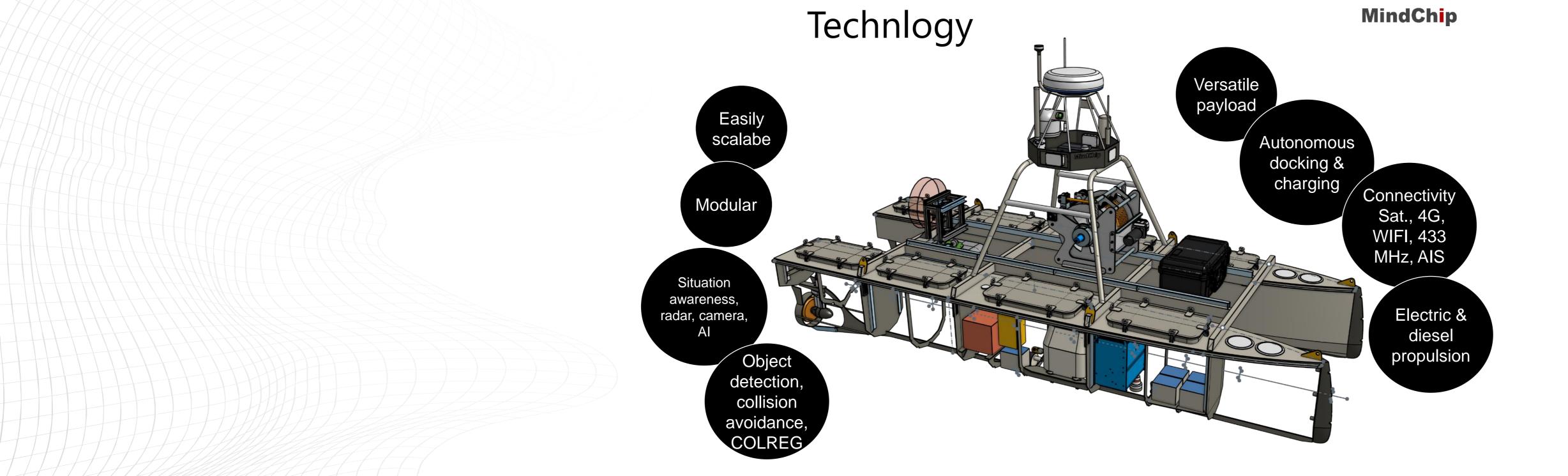
Maritime infrastructure is booming!





MindCh<mark>i</mark>p

Usecase: autonomous ship for bathymetry Conventional method:





GNSS hanel

station (control segment)

MindChip High precision measurements on open sea

VesseLINK 200

Galileo High Accuracy Service (HAS) (space segment)

GNSS broadcast signals Child and a second seco (space segment) St Contraction

The robot ship needs accurate position for various tasks:

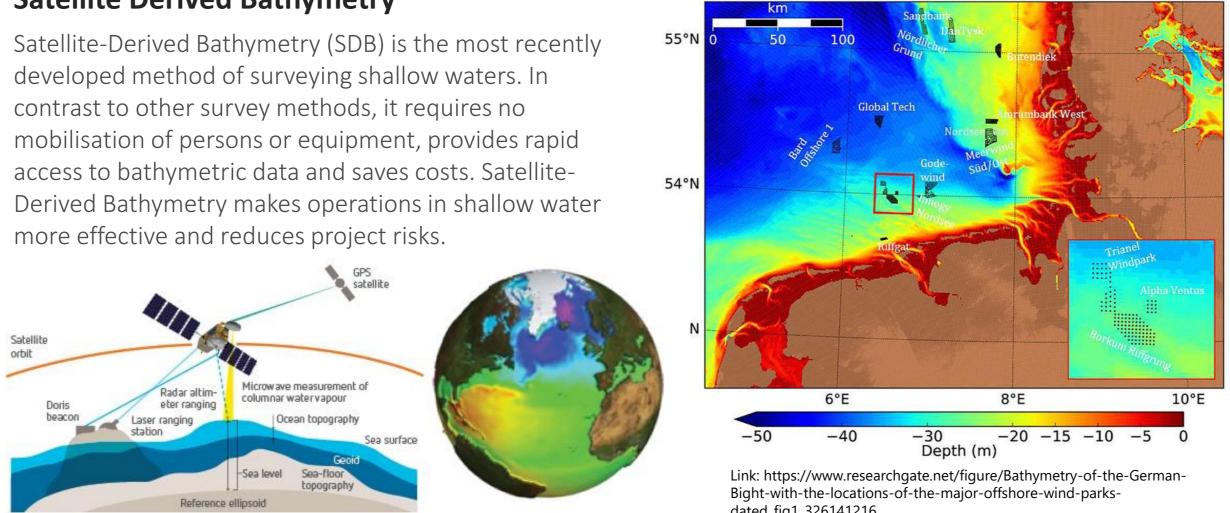
- Port operations
- Port bathymetry
- Offshore bathymetry
- Dynamic positioning for electric cable and gas pipline monitoring

Gas and cable monitoring

Data uploding, master and monitor

Combining EO data with on site measurement

Satellite Derived Bathymetry



MindChip

dated_fig1_326141216

Traction of clients

Grant

OPERATIONAL PROTOTYPE (ongoing)

Contracted

SITUAT. AWARENESS & NAVIGATION FOR MANNED VESSEL (ongoing)

Baltic Workboats shipyard









Contracted

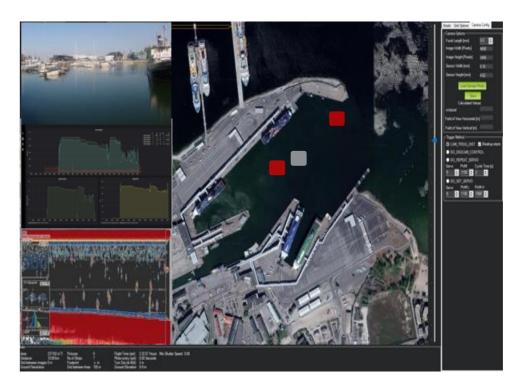
ASV FOR FISH STOCK MONITORING (ongoing)

Contracted

WINDFARM PLANNING AND MAINTANANCE

Contracted





🏛 TARTU ÜLIKOOL



PORT OF 🚯 TALLINN

ASV HARBOUR MONITORING VESSEL Pipieline

elering











Keskkonnaamet



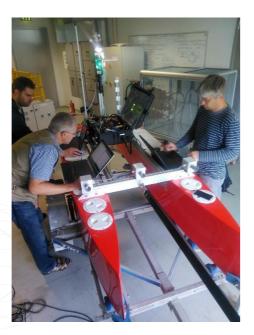
MindChip

ASV MC2500



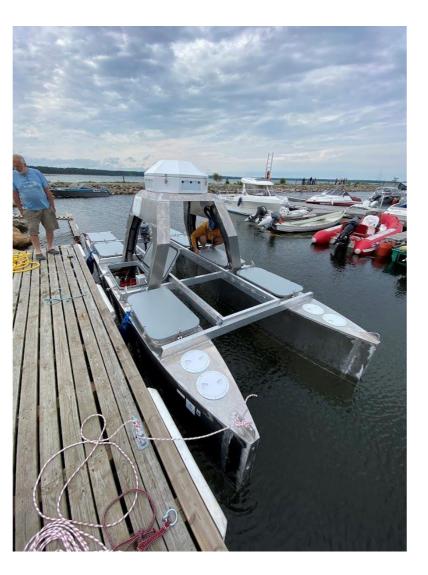






ASV MC6000

Artificial captain – Border Guard vessel







Team









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Embedded systems developer









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CTO

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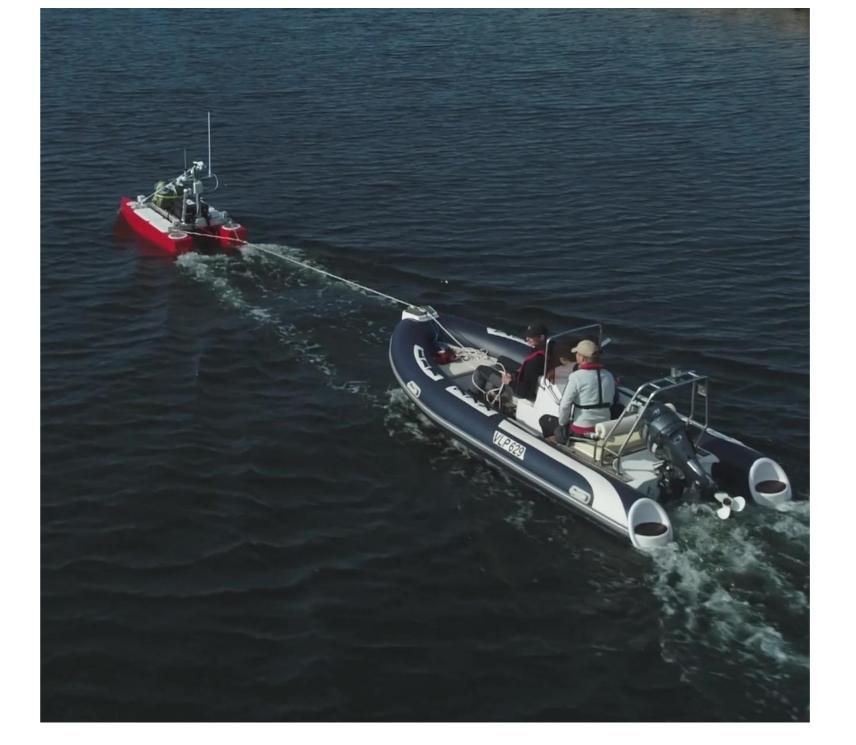
MindChip



THANK YOU!

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