Autonomous Vessel Comms Platform

Henry Härm - Navigate 2022

MindCh p



About Us

We build a autonomous vessel communication platform

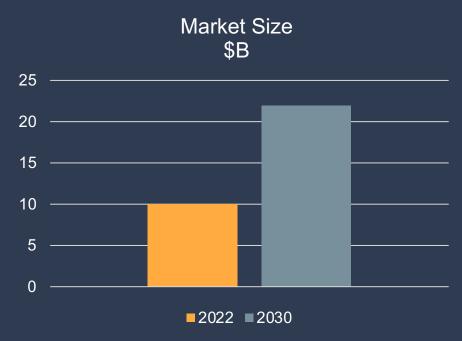
- MindChip is a TalTech spinnoff, building a modern autonomous vessels
- Wayren is an Estonian Defence Forces spinnoff, developing secure data exchange for demanding conditions



Introduction

Autonomous vessels are transforming maritime

- Reducing human error
- Increasing fuel efficiency
- Reducing pollution
- Executing dangerous missions





The Vision

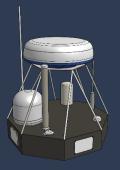
END USER

Data, Customer, Fleet management center

ARTIFICIAL CAPTAIN



- **Digital Twin**
- Weather Data
- Third party data services
- **Predictive** maintenance



- Situational awareness
- GNSS
- Weather station
- Radar
- Lidar
- Cameras

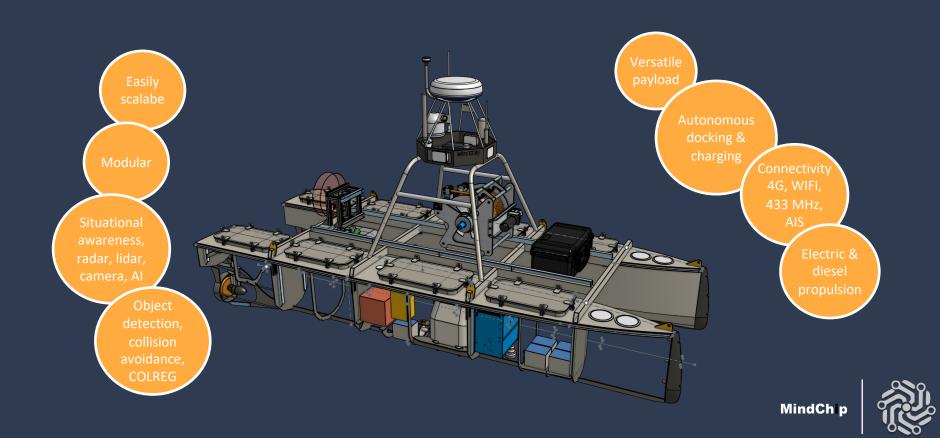
APPLICATIONS







Autonomous Platform



The Problem

How to provide visibility and awareness?

- 1 Navigational safety and crisis response
- Lack of 4G and Satellite connectivity for monitoring and control



Vessel Comms Platform



Example

Fleet efficient vehicle-to-vehicle operational data



Navigational safety with digitized maritime VHF





Thank You!

MindChip





