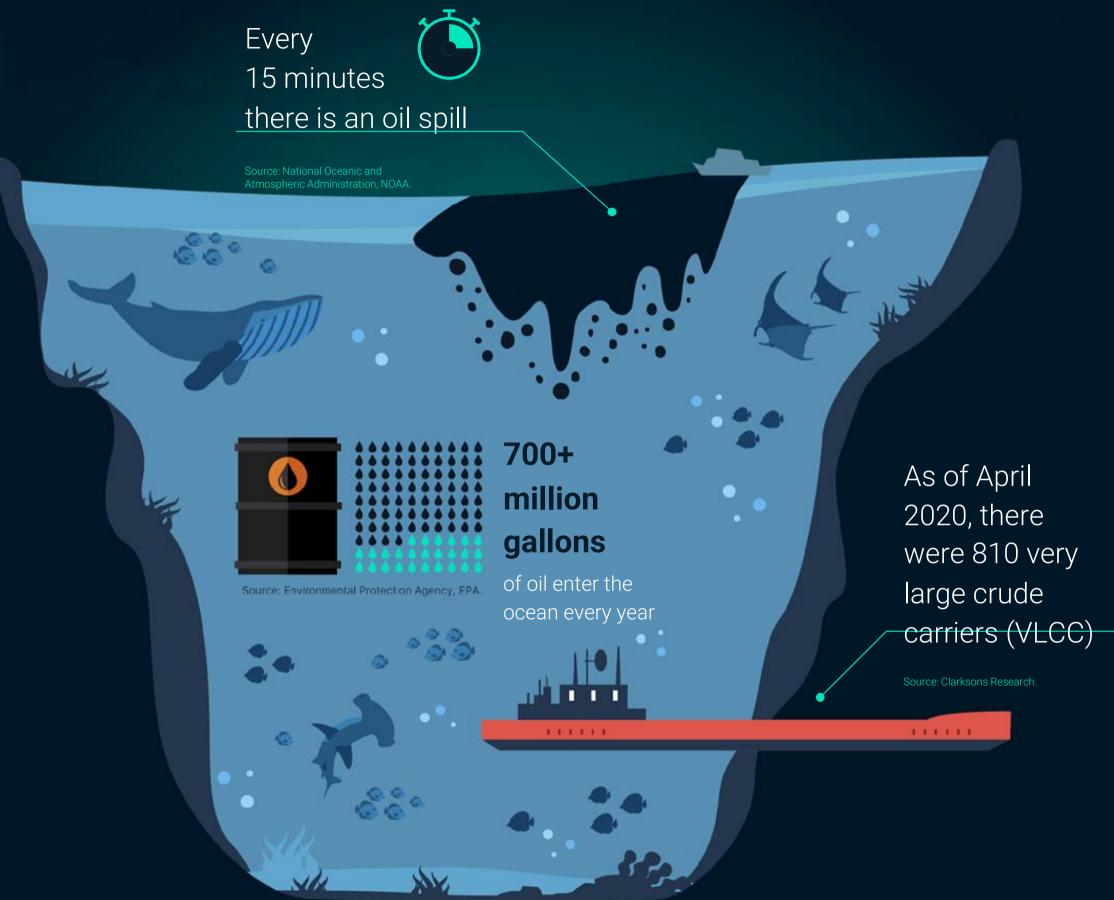




Problem Statement

Overview of the Problem

Oil spills pose a significant threat to marine environments, with devastating consequences for wildlife and ecosystems.









✓ Following

Please approach Beach Patrol team for assist



CNA 348,430 followers

"This is the worst oil spill in 20 years that I've seen."

As clean-up efforts continue following an oil spill along Singapore's southern shores, some sea sports and yacht operators are feeling the brunt of cancelled bookings and loss of customers. CNA's Nicolas Ng and Louisa Tan

#environmentalprotection #oilspill



businesses' plans to cash in on lo

channelnewsasia.com

Andrew Dixon, who runs a sustainable resort on an island near Singapore, told Reuters that oil spills of this scale are rare in Singapore. 'Almost a complete loss': Oil spill He called on authorities to enact penalties so something like this doesn't take place again. "It is just criminal," he said.

Traditional vs. OliOil

What if OliOil would have been used in Singapore?

Current solution used in Singapore:

- 15-hour response time
- At the port

OliOil solution:

• 30-minutes response time

• Even on the open sea

A collision between vessels in Singapore resulted in a spill over 400 tonnes of oil, significantly impacting coastal and ocean ecosystems.

timeAt the port



How it Works

Step-by-Step Process

Deployment of first aid kits and robotic vessels in the tankers.

Real-time data sharing and coordination

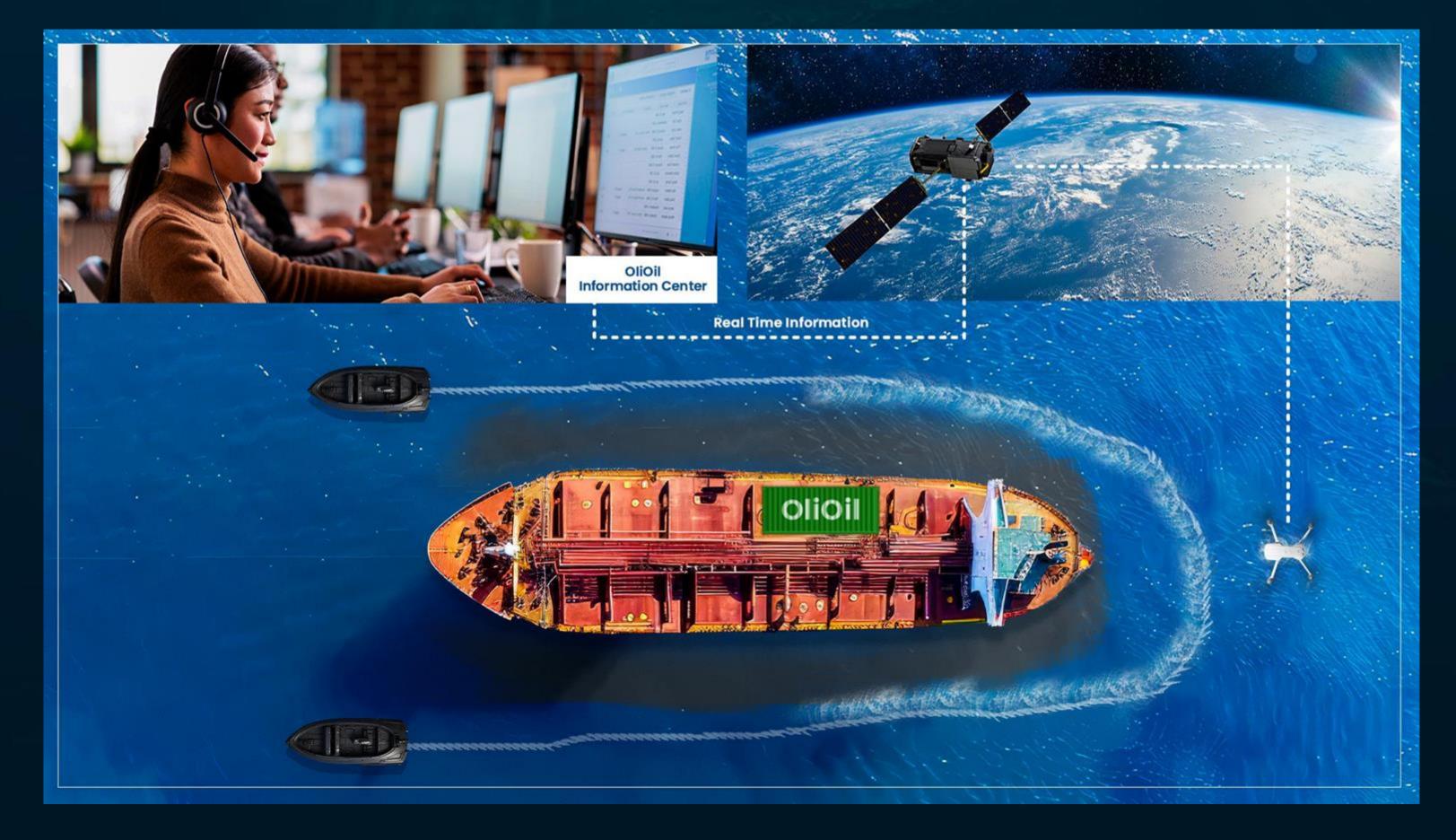
Enclosure and recovery of oil using booms / collection of oil (oil and water separation is very feasible / normally oil is burned in the sea.



Solution: OliOil Technology

OliOil deploys autonomous first aid kits and robotic vessels to contain and clean up oil spills efficiently.





Oil Spill Cleanup Market

The global oil spill cleanup market was valued at USD 125.6bn in 2022 and is projected to grow significantly.

Source: Grand View Research.

Average insurance premiums and provisions for oil spill cleanup costs.

Day losses during spill incidents:

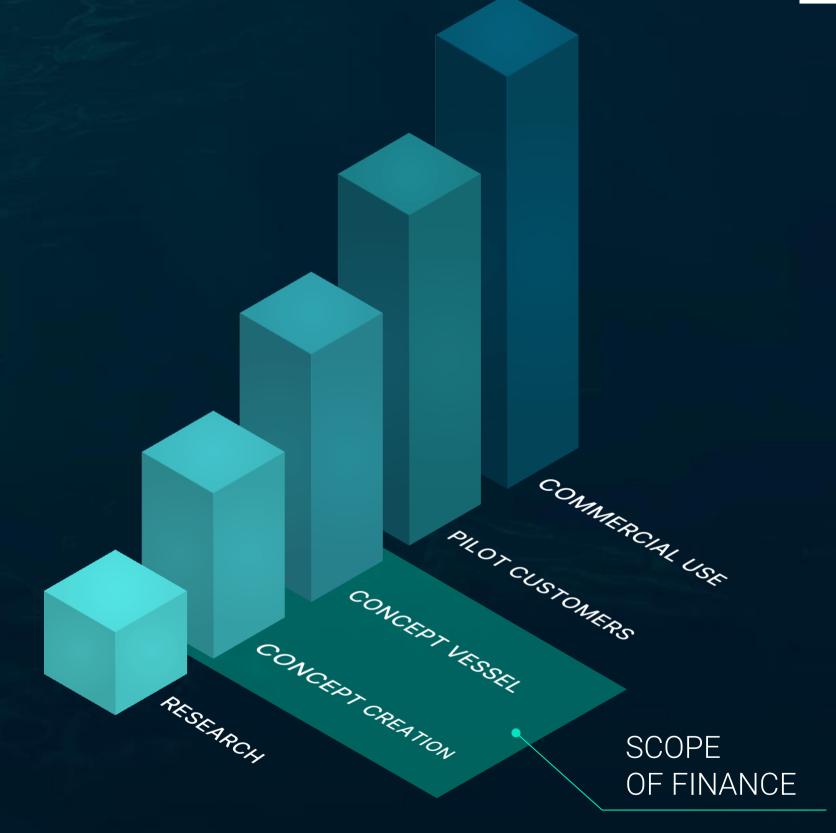
Oil shipping companies spent 1.7 billion dollars in 2023 every incident day.



Scope of Concept Plan

The background of this initiative traces back to research conducted by Lappeenranta University of Technology.

Our objective is to leverage university research to establish a new global export enterprise in Finland.



1000 OliOil First Aid Kit in five years

OliOil customers

- Shipping companies
- Harbors
- Oil platforms/Oil rigs





Container OliOil

• Equipment's

First Aid Kit

- Modeling of oil spill behavior
- Estimation of required resources
- Response planning

Full service 30-50 000 €/month

5000 shipping companies

Container 1 000 000 €

50,000 commercial vessels sail daily

3000 large commercial harbours 12,000 oil & gas platforms

Support as

Service and support center

Maintenance services

a Service



Go To Market Strategy

Key Components | Key Providers

Container:

Own team

Vessel:

Intelligence Application:

Arctic Container Oy

Own team

Teknomarine

Own team

Reaktor

Mindship

TalTech

R2 Marine

Timeline:

R2P (proto)
10 months

Certification 4 months (optimistic)

Production time of production ready product

3-6 months (multiple products can be produced parallel.

Estimated cost:

For Pilot Marketing & Sales

650.000€

For prototype

For certification and field test

2.000.000€

350.000€





The path to global impact













BUILT ON FINNISH KNOW-HOW ON OIL SPILL MANAGEMENT

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Our objective is to leverage University research to establish a new global enterprise.

IMPACT

Part of the World Economic Forum Initiative 1000 Ocean Startups together with A'Pelago Accelerator Helsinki University BIOSPHERE

ACCELERATING SUSTAINABLE IMPACT

Business Finland and Wärtsilä Zero Emission Ecosystem

