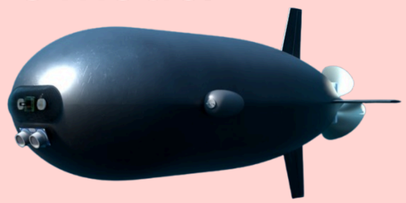
TRIDENT

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Introduction

Introducing **Trident** a smart underwater robot for oceans built with own **using AI** (rule based) for monitoring **ocean oil leaks** guarding **marine life, oil spills, disaster monitoring** and so on system **specially built for UAE waters.** It has its **own countermeasures** for avoiding obstacles and the real time data is logged in **Google Sheets using WIFI.** Comes with an android application and website.

Future model



Future plans

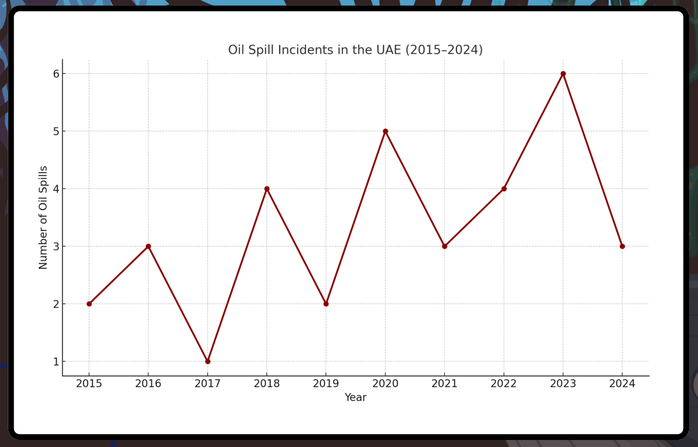
Trident is currently at the prototype stage, with several strategic plans in place for future development and real-world implementation. These are:

1. Integration of **ANI** (**Artificial Narrow Intelligence**) for much more accurate monitoring.
2. Inclusion of **several advanced equipment** for much more accessibility.
3. Aligning with **UAE's Vision 2030** and **mitigating the oil spill incident to the point of complete containment and elimination.**

Abstract

- Trident is a concept built with **Artificial Intelligence** (Rule based) specially **fabricated for UAE waters.**
- This technology uses several dedicated sensors and uses **AI to monitor aquatic life and pollution, severity, eradication, oil spills and disaster monitoring.**
- The real time data collected is logged into **Google sheets using WIFI.**
- It also has own **countermeasures** for tackling obstacles, when endangered it sends an **radio message** around seeking help.
- The robot has been through **severe testing** in order to achieve output at utmost accuracy.

Analysis



Benefits and SDG's

Benefits:

- Usage of **Artificial Intelligence** (rule based) for utmost **precise calculation.**
- Completely **autonomous** and **reduces labour required, time and risks involved**,
- Increases efficiency of transport of oil.
- **Monitors aquatic life** and water pollution
- Has own **countermeasures** for obstacles.
- It comes with an **application and website.**
- Has an interface of **WIFI and Google Sheet.**
- Modular, expendable design and **user-friendly.**

SDG Goals:

- **SDG-6**: - Responsible in clean water and sanitation.
- **SDG-9**: - Supports and aids in industry, innovation and infrastructure.
- **SDG-11**: - Trident promotes sustainable cities and communities by monitoring pollution.
- **SDG 12**: - Responsible comsumption and production.

Reference

- Hackster.io
- Github
- Wikipedia
- The instructables
- Youtube