



BLUTECHNOVA

INNOVATION FOR A SUSTAINABLE BLUE

Main Problems



Shark threats risking tourists

Tourism losses range between 20–30% (approximately 500 Million USD annually).



Pollution killing marine life



Coral reef degradation

up to 15%, with a potential 60–80% degradation by 2030.



Solution

We build the next generation of **AI-powered** Coastal Environmental Intelligence and Early Warning Systems for safer, smarter, and more sustainable coastal destinations.



Smart Sensing Networks

Real-time environmental data collection from sea and coast



Marine Robotics

Autonomous surface and underwater vehicles for inspection and validation



Shark Detected

Potential threat to swimmers and marine life



Plastic Pollution

Marine pollution detected



Coral Reef Degradation

Habitat damage detected



AI & Computer Vision
Real-time detection & analysis



Predictive Analytics
Predict risks before they occur



Early Warning Alerts
Instant notifications & recommendations



Smart Dashboard
Actionable insights for decision makers

Product Technology

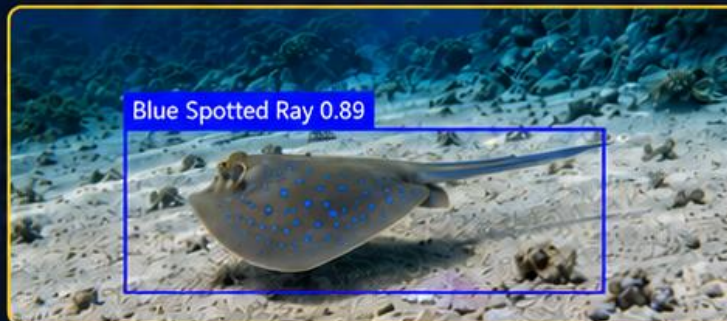
- Sea Monitoring (360-degree vision)
- Scanning for Coral Reefs
- Measuring sea pollution



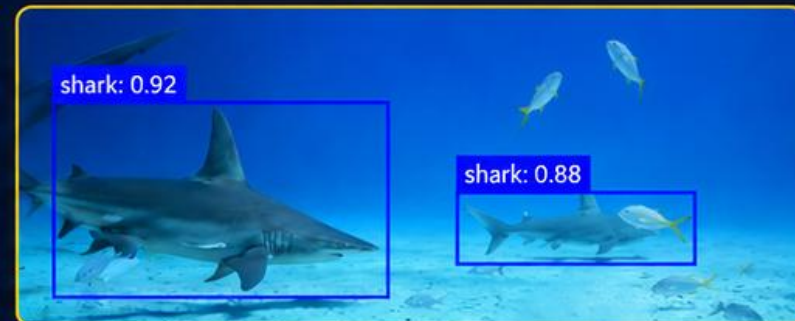
Validated MVP

Field-tested in real coastal environments with a paid pilot and proven performance.

AI-Powered Marine Detection



Blue Spotted Ray Detection



Shark Detection



Coral Reef Detection

FROM
DATA TO
A CLEANER
OCEAN

MONITOR
DETECT
PRESERVE

Smart Sensing Buoys

REAL-TIME OCEAN MONITORING



Buoy System on Deck



Buoy Deployed at Sea

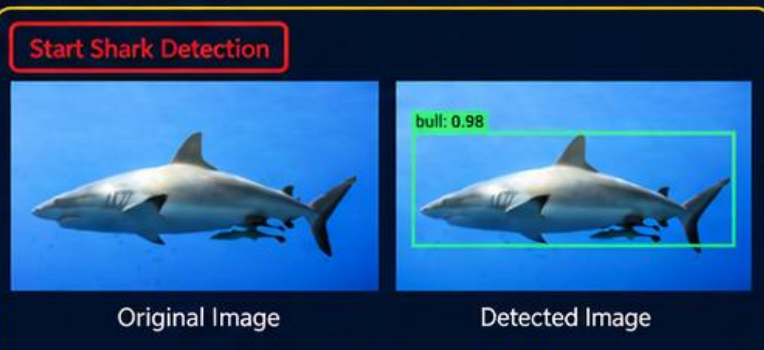
Smart Coastal Hardware



Underwater ROV System

AI Models

DETECTING A SAFER OCEAN



Original Image

Detected Image

Predicted Class: bull



SHARK DETECTION

shark: 0.92



shark: 0.88





BLUTECHNOVA

INNOVATION FOR A SUSTAINABLE BLUE

DETECTION

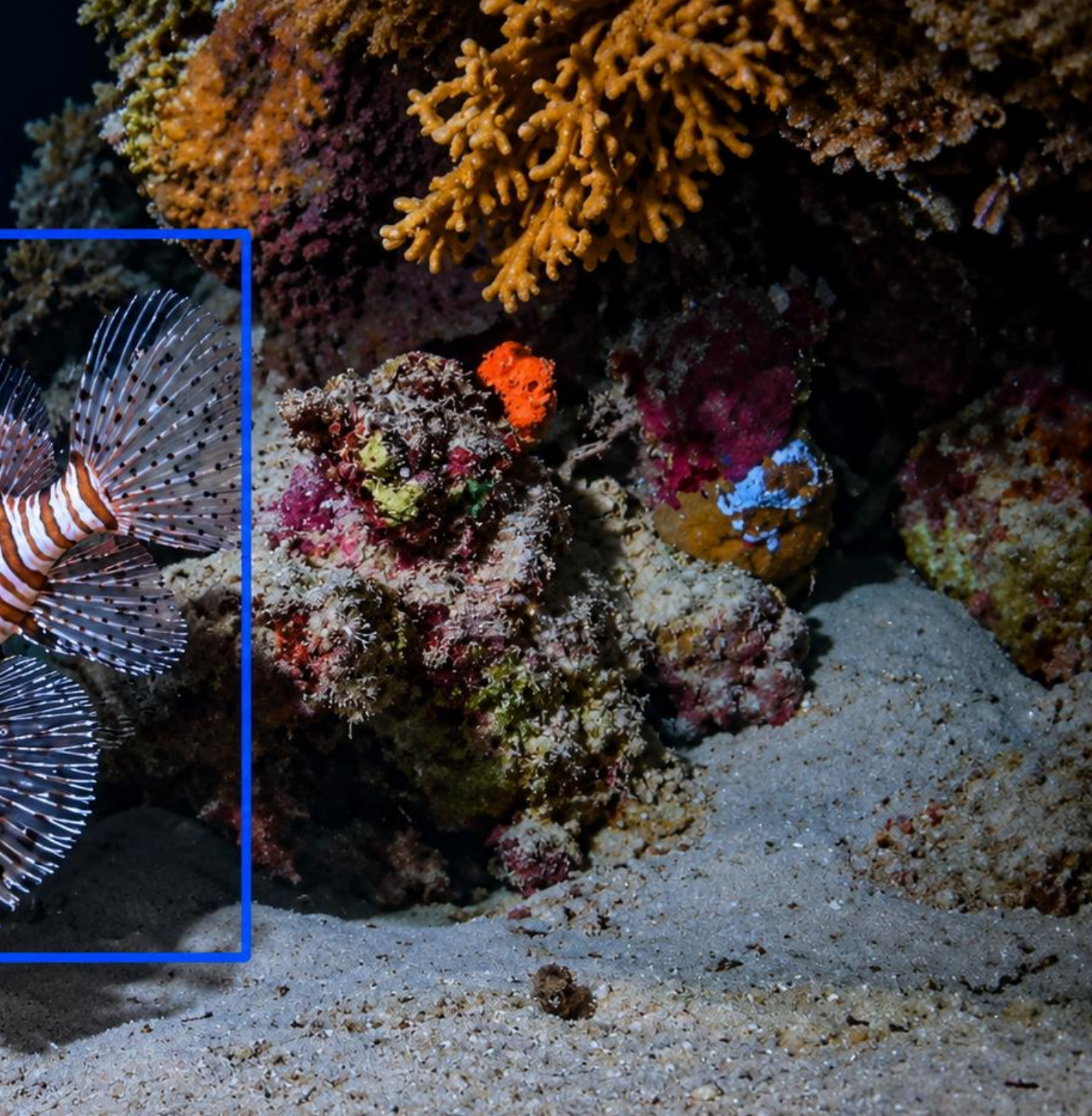
Blue Spotted Ray 0.89



 BLUTECHNOVA
INNOVATION FOR A SUSTAINABLE BLUE

DETECTION

LIONFISH 0.98



SHARK DETECTION



BLUTECHNOVA

INNOVATION FOR A SUSTAINABLE BLUE

Shark detected 0.95





PLASTIC WASTE DETECTION

waste 0.72



waste 0.66



waste 0.73



waste 0.57



DETECTION

CORAL REEF HEALTH ANALYSIS

CORAL REEF HEALTH OVERVIEW



Good	82%
Moderate	12%
Poor	6%

INDICATORS

	Bleaching Level	12%	Low
	Live Coral Coverage	68%	Good
	Coral Species	7	Detected
	Water Temperature	27.8 °C	Normal
	Depth	18.6 m	
	Confidence Score	0.94	High

HEALTH SCALE



 Coral Reef Health: **POOR** 0.32

 Bleaching: High



 Coral Reef Health: **MODERATE** 0.58

 Bleaching: Moderate



 Coral Reef Health: **GOOD** 0.88

 Bleaching: Low



 Coral Reef Health: **MODERATE** 0.64

 Bleaching: Moderate



 Coral Reef Health: **GOOD** 0.91

 Bleaching: Low



 Coral Reef Health: **GOOD** 0.90

 Bleaching: Low



 Coral Reef Health: **GOOD** 0.89

 Bleaching: Low



WATER QUALITY ANALYSIS DASHBOARD

Real-time Monitoring & Advanced Analytics

May 25, 2026

10:45 AM

Export Report



Overview

Multi-Parameter

Water Quality

Monitoring Stations

Alerts

5

Analytics & Trends

Reports

Data Export

Settings

WATER QUALITY INDEX



- 90-100 Excellent
- 70-89 Good
- 50-69 Moderate
- 25-49 Poor
- 0-24 Very Poor

MULTI-PARAMETER (REAL-TIME)



MONITORING STATIONS MAP



DETAILED WATER QUALITY PARAMETERS (LATEST)

Station	Time	pH	EC (µS/cm)	DO (mg/L)	Turbidity (NTU)	Temp (°C)	Salinity (PSU)	COD (mg/L)	BOD (mg/L)	Oil in Water (mg/L)	NH ₃ (mg/L)	NO ₃ (mg/L)	PO ₄ (mg/L)	TSS (mg/L)	TDS (mg/L)	Chl-a (µg/L)
ST-01	10:45 AM	8.15	498	6.8	2.8	27.6	37.2	8.6	2.1	<0.05	0.02	0.65	0.03	312	312	2.4
ST-02	10:45 AM	8.10	512	6.9	2.1	27.5	37.8	7.2	1.8	<0.05	0.01	0.58	0.02	318	318	2.4
ST-03	10:45 AM	8.22	610	4.8	8.2	28.1	38.1	16.4	4.2	0.10	0.05	1.25	0.06	402	402	Moderate
ST-04	10:45 AM	8.05	487	6.2	3.6	27.9	36.9	9.1	2.4	<0.05	0.02	0.72	0.03	301	301	Good
ST-05	10:45 AM	8.35	742	3.1	15.4	28.8	38.7	28.7	7.6	0.28	0.12	2.10	0.11	512	512	Poor
ST-06	10:45 AM	8.07	523	5.9	4.7	27.7	37.5	11.3	2.9	<0.05	0.03	0.85	0.03	330	330	Good
ST-07	10:45 AM	8.62	915	2.1	29.8	29.2	39.1	45.6	12.3	0.72	0.28	3.45	0.19	680	680	Very Poor

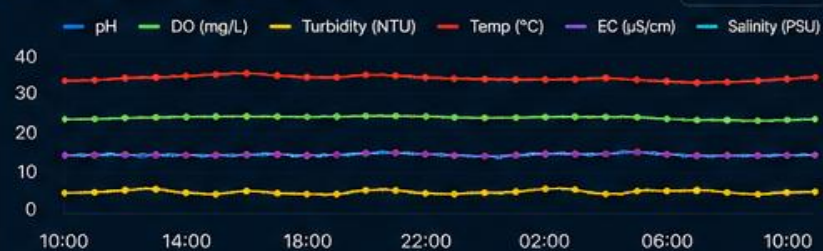
WATER QUALITY STATUS OVERVIEW



WQI (WATER QUALITY INDEX)



PARAMETER TRENDS (24 HOURS)



POLLUTION INDICATORS

COD (mg/L)	8.6	Good
BOD (mg/L)	2.1	Good
Oil in Water (mg/L)	<0.05	Good
NH ₃ (mg/L)	0.02	Good
NO ₃ (mg/L)	0.65	Good
PO ₄ (mg/L)	0.03	Good
TSS (mg/L)	6.0	Good
TDS (mg/L)	312	Good
Chlorophyll-a (µg/L)	4.8	Good

WATER QUALITY ALERTS

- High Turbidity Detected

Station 07 - Turbidity is 29.8 NTU

10:30 AM
- Low Dissolved Oxygen

Station 05 - DO is 3.1 mg/L

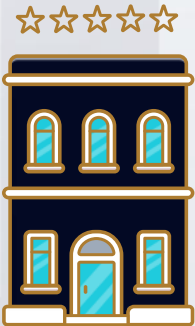
10:15 AM
- Moderate pH Level

Station 03 - pH is 8.22

09:50 AM

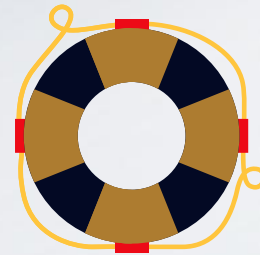
View All Alerts →

Target Segment (B2B)



Hotels & Resorts

650 hotels in the Red Sea Governorate
(first stage) from 4 to 5 stars



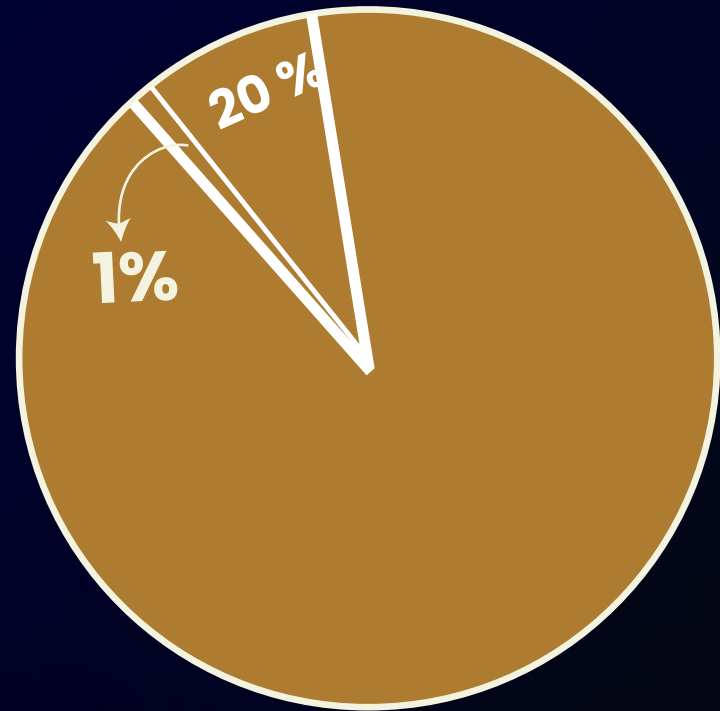
Diving center

210 Diving center in the Red Sea
Governorate (first stage)

Market Size

The number of target customers is **650 hotels** in the Red Sea Governorate from **4 to 5 stars** and we aim to reach **20%** of these hotels within a year of marketing.

In the first year we target
Minimum 1% (6 hotels).

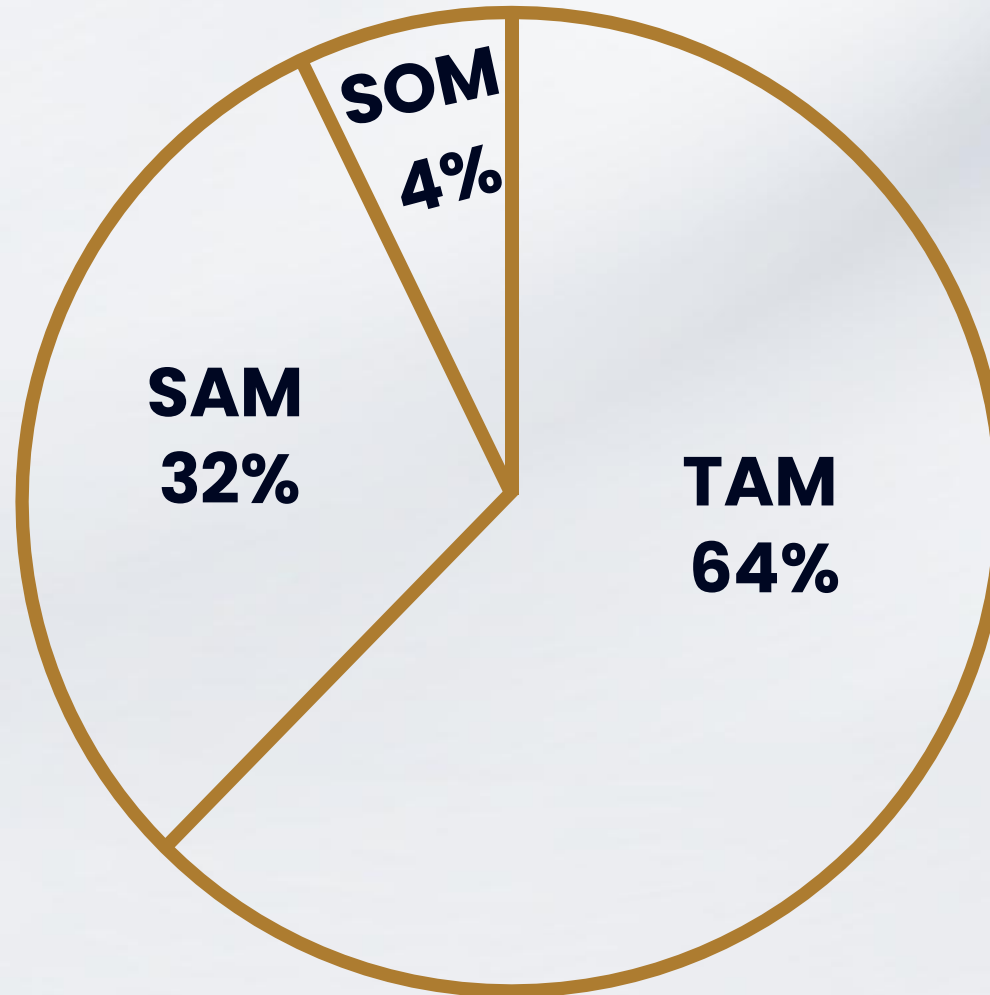


Market Size

TAM : **\$10B**

SAM : **\$800M**

SOM : **\$100M**



COMPETITORS

Comparison point /Competitor	BLUTECHNOVA 	SharkSafe Barrier 	Ripper Corp (Drone) 	ROV / AUV Solutions   	Tritech + SMS 
Integrated smart system	✓	✗	✗	✗	✗
How to protect the tourist	Disclosure + Alert + Decision	Physical prevention	Air traffic control	Inspection/Task	Sonography
Detect the danger before it arrives (up to 800 M)	✓	✗	✓ Temporary	✗	✓
Early warning	✓	✗	✗	✗	✓
Central Beach Management	✓	✗	✗	✗	✗
Up to 12H operation	✓	✓	✗	✗	✓
The price	✓ For all system	✗	✗	✗	✗

REVENUE STREAMS

	Buying	Renting	lease-to-own	Subscribe + Service after sale
Min	5 Unit / 1 years	1 years	Downpayment + installment Monthly	Monthly
Price	Price 1 Unit = 80,000 USD	Price 1 Unit = 7,500 USD	30,000 + (5250 X 12)	System upgrade = 2,000 USD
Total of Min Revenue 1st year	400,000 USD	7,500 USD X 2 comp. X 3 months = 39,000 USD	2,000 USD X 3 comp. X 1 year = 270,000 USD	2,000 USD X 3 comp. X 1 year = 72,000 USD

Total of Min All Revenue = 400,000 USD 1st year from only buying

REVENUE STREAMS

Calculation for All Revenue Streams

50 %

Min Net Profit per year

2 Sys. need to be sold

Break Even Point

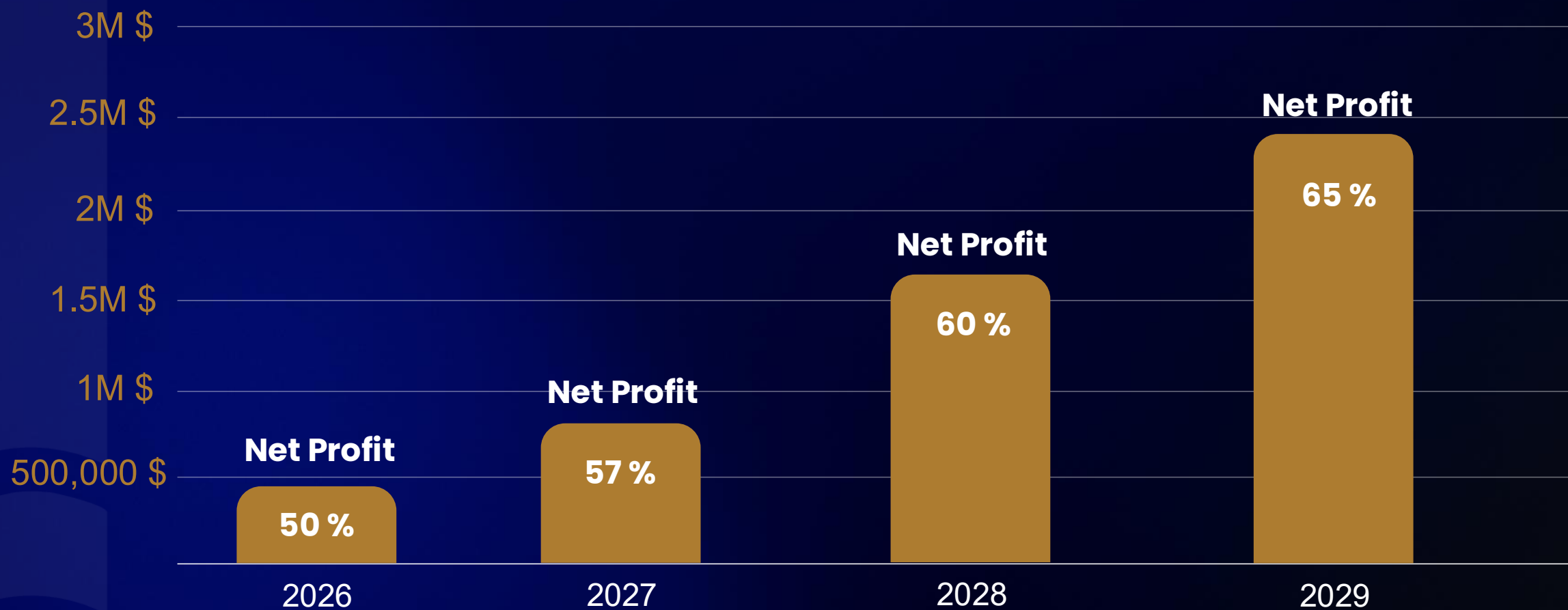
200 %

Min ROI

less than 4 months

Break Even Point

Projection



Traction



Steigenberger Hurghada



Marriott Hurghada

Traction

Building Strategic Partnerships with Leading Hotels & Resorts



Continental Hurghada Hotel

Steigenberger Hurghada

Hurghada Marriott Beach Resort

Pickalbatros Hotels & Resorts

Marriott Hurghada

Exploring collaboration for safer, smarter and more sustainable beaches.

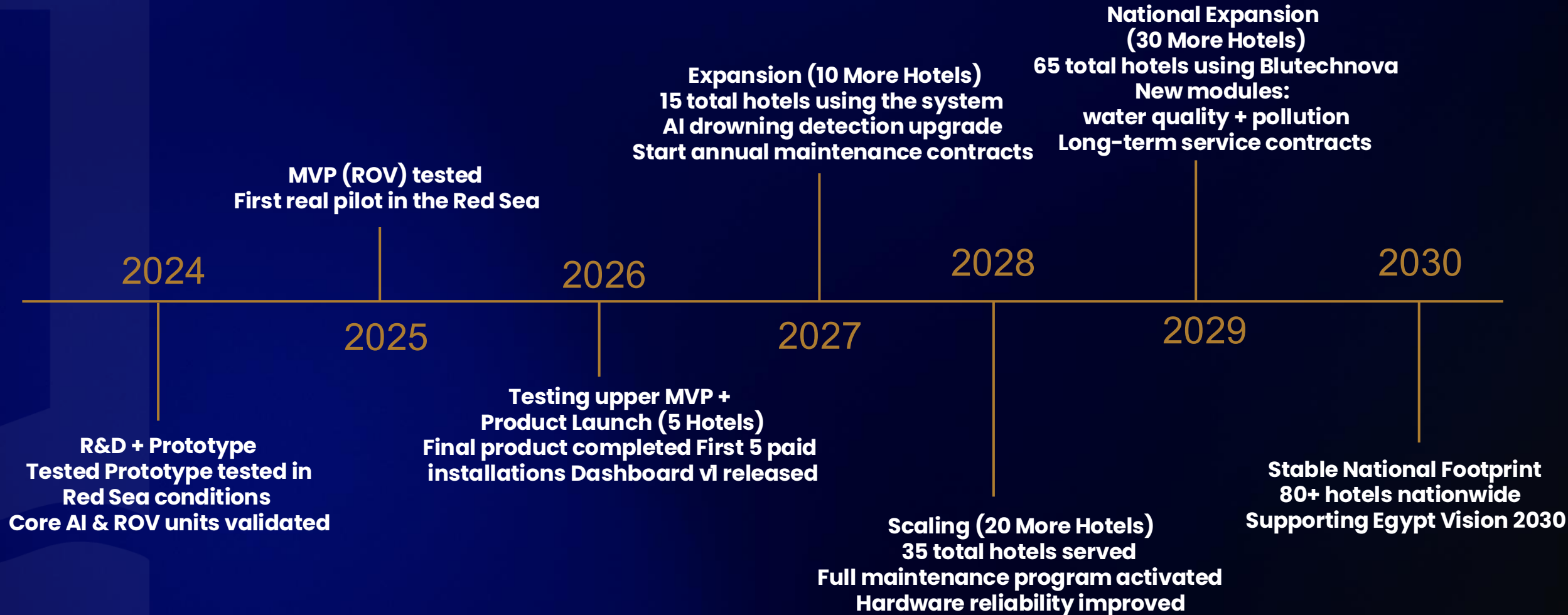
Discussing opportunities to advance responsible coastal tourism together.

Advancing innovation for a safer and more sustainable Red Sea.

Working together towards smarter and safer coastal tourism.

Exploring future collaboration for sustainable and safe coastal destinations.

PROJECT PLAN



TEAM



Dr. Hatem Gado

Co-Founder & Chief Financial Officer
(CFO) , 35+ Years Of Experience



Mahmoud Okasha

Founder & CEO
(5 years experience)



Eng. Ahmed Rafaat

Co-Founder & Head of Technical
(5 years experience)



Dr. Fairouz Ahmed

Co- founder & Head of R&D
Dr at Marine Science - Suez University
(5 years experience)



Jana Ahmed

Co- founder & Head of PR
(2 years experience)

INVESTMENT ASK

Seeking

300,000 USD

To scale our AI-powered coastal intelligence solutions and protect people, ecosystems and coastal economies.

IMPACT & SUSTAINABILITY

9 INDUSTRY, INNOVATION
AND INFRASTRUCTURE



11 SUSTAINABLE CITIES
AND COMMUNITIES



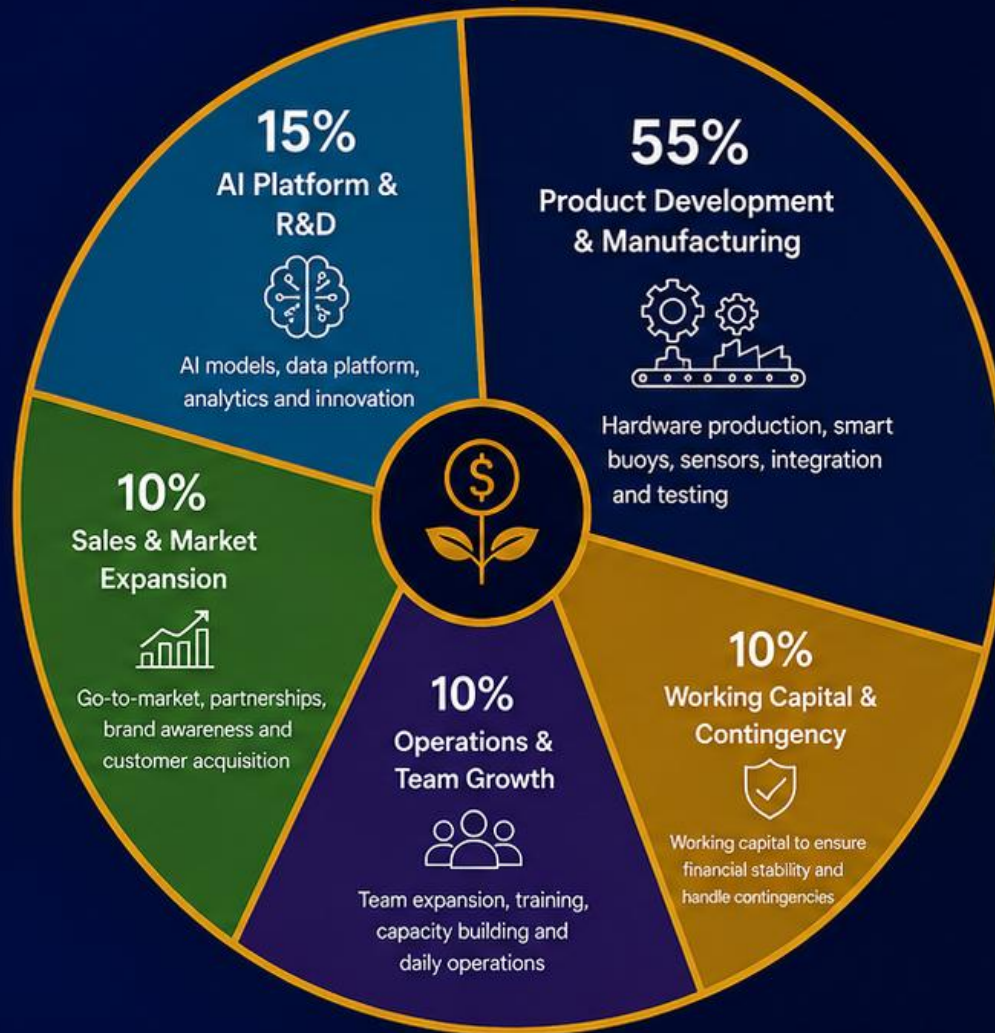
13 CLIMATE
ACTION



14 LIFE
BELOW WATER



USE OF FUNDS



STRATEGIC ALIGNMENT

8 DECENT WORK AND
ECONOMIC GROWTH



3 GOOD HEALTH
AND WELL-BEING



5 GENDER EQUALITY



17 PARTNERSHIPS
FOR THE GOALS



Aligned with Egypt Vision
2030 for a sustainable,
innovative blue economy



This investment will enable Blutechnova to **finalize product development, scale manufacturing, expand commercial deployment, and accelerate market entry** across **Egypt** and the region.

Governmental Alignment & Policy Integration

In coordination with the Ministry of Environment, the Ministry of Tourism and Antiquities, and the Red Sea Governorate, Blutechnova's system is being positioned as a national safety and sustainability requirement for all coastal tourism facilities. The proposal aims to link the issuance and renewal of tourism licenses to the adoption of smart marine protection systems that ensure the safety of tourists and citizens while preserving marine biodiversity. This alignment directly supports Egypt's Vision 2030 and enhances the global image of Egypt as a smart, safe, and sustainable tourism destination.



KEY PARTNERS



وزارة التخطيط والتنمية الاقتصادية
Ministry of Planning and Economic Development



وزارة الاتصالات
وتكنولوجيا المعلومات



أكاديمية البحث
العلمي والتكنولوجيا
Academy of Scientific
Research & Technology



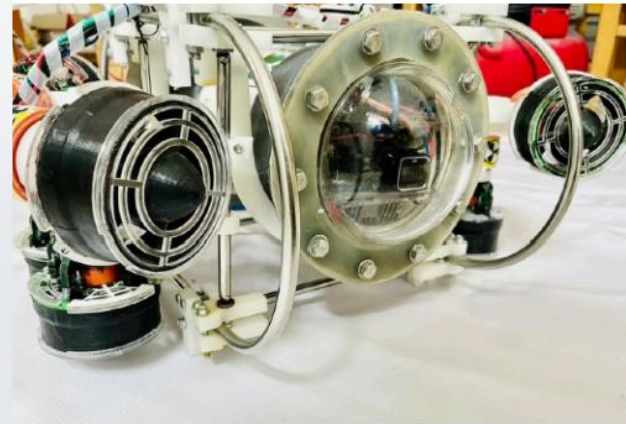
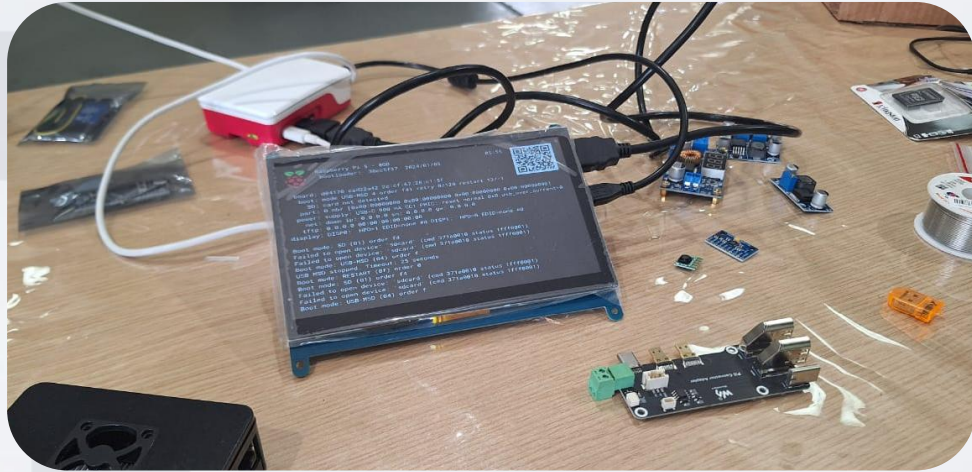
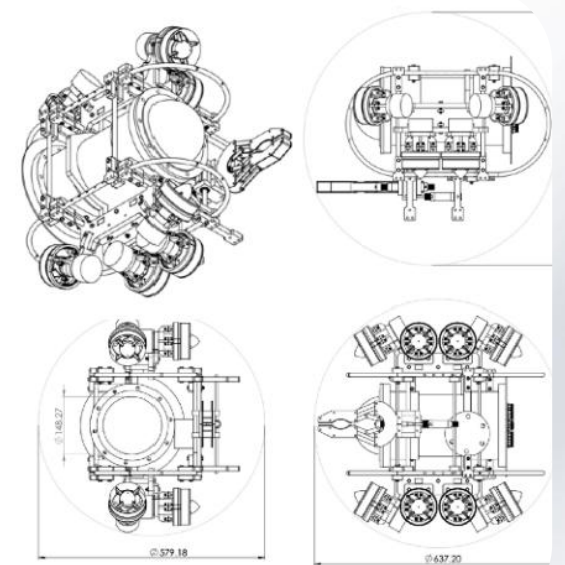
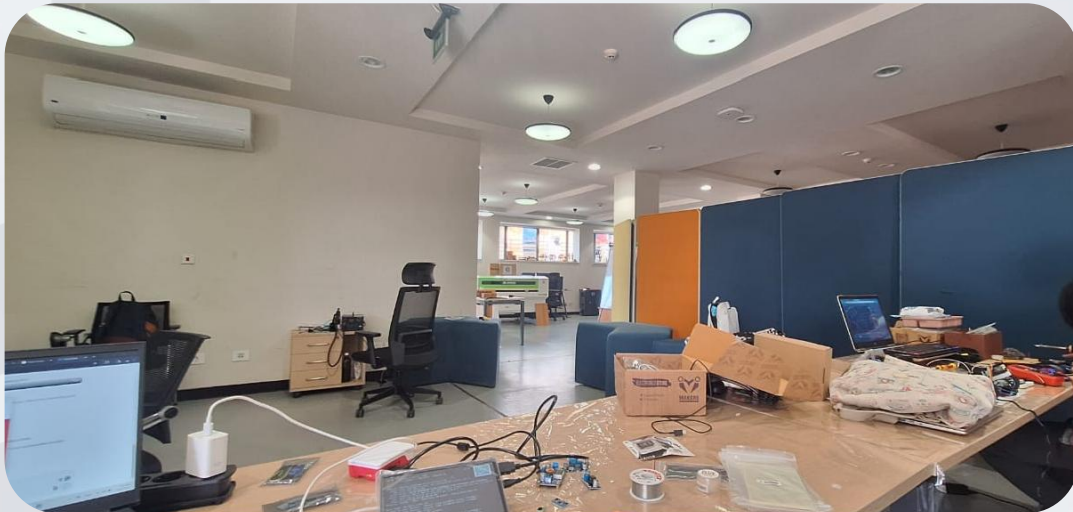


Figure 3.FUGU



Figures 4. FUGU Engineering Drawings





اول منظومة ذكية متكاملة للمراقبة البيئة البحرية بدمج (AI) و (IoT) والروبوتات البحرية لتمكين سياحة ساحلية ذكية آمنة ومستدامة وتعزيز الاقتصاد الأزرق

حماية لحظية • تحليلات تنبؤية • جاهزية الاعتمادات الاستخدام والسلامة (ESG)

هدفنا: جعل محافظة البحر الأحمر أول محافظة ساحلية ذكية • آمنة • مستدامة.

إنذار مبكر للمفترسات (القرش وغيرها) - لحماية المواطنين والسياح.



صحة الشعاب المرجانية - مؤشر حيوي طويل المدى.

تتبع جودة المياه وإدارة الأزمات - تنبيهات لحظية للتلوث ولوحات متابعة تدعم القرار.



اعتمادات الاستخدام والسلامة للفنادق (ESG) - مواءمة مع رؤية مصر 2030 وتحسين الجاهزية للتصنيف.

دعم البحث العلمي - Big Data وتحليلات متقدمة لعلوم البحار.



إدارة الأزمات والكوارث الطبيعية إنذار مبكر وتنبيهات فورية + لوحات متابعة لحظية تدعم القرار.



امسح رمز QR واكتشف معنا عالمنا جديدا

زور منصتنا

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THANK
YOU

