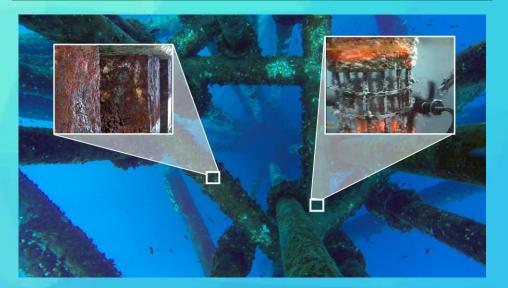
# EXPLORATION

UNDERWATER 3D GEOSPATIAL MAPPING AND ANALYTICS FOR MARITIME INDUSTRIES



**Shark Scan** is a machine vision algorithm that automatically analyze any ROV video with defect measurement and 3D model for accurate assessment of corrosion, cracks and marine growth. Our algorithm can also be used in change detection, seabed and GIS mapping.







Intelligent underwater 3D Analytics using Machine Vision

#### **Fusion of Camera and Sonar 3D Tech**



High Resolution Scan
< 1 cm resolution can be achieved</li>
Smallest details rendered

13m 7m

Measurable Maps
Cover up to 1,000 sqm
GIS mapping compatible

#### **Tracking and Analysis with Machine Vision**







- Biofouling, Corrosion Analysis
- Marine Growth Assessment

## **Analytics Services**

#### **3D Visual Scanning**

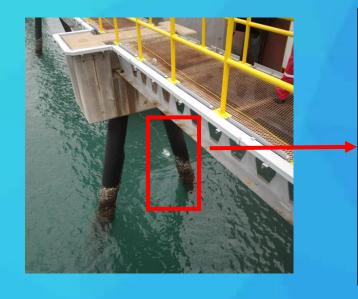
- As-Constructed Documentation
- Geospatial Surveying

#### Image & Video Analytics

- Defect Detection
- Condition Assessment

### **\*\*Analytics Service starts**

US\$2,000 for 2 hours video processing



Anode ID: 0047 Measured Size: 734.123mm Anode Condition: Deteriorated





Processed Area

## **Shark Scan Analytics**





Surface Support Ship

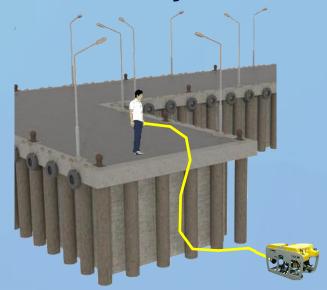






Better Analytics using smaller consumer grade ROVs

**Better Safety** 



## **Better Capabilities**





Access tight spaces

Automated Defect Detection



Bigger Area Coverage

# **Testing Results:**

	Traditional Methods	Antipara Exploration	Result
Team	2 Crew 4 ROV Operators 10 Review Engineers	2 ROV operators 1 Review Engineer	80% less Manpower
Logistics	+50kg Class ROV	>10kg Class ROV	50% Faster Scanning
Output	100 video hrs Report & Pictures	Automated Video Analysis/ 3D imaging	Easier to review
Overall Cost	High	Cost effective	70% Savings



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