SEED INVESTOR DECK

GulfSync Robotics

Continuous multi-domain robotic inspection for offshore rigs

Synchronising aerial drones, sea drones, submersible units and crawler robots into one inspection loop for Gulf of Mexico offshore assets.



<250ms

fleet sync latency target

62%

lower rope-access hours

$4.2M

seed round sought

Founder: Edward Halpin

June 2026

The problem

Offshore inspection is still too fragmented, too episodic, and too dependent on people in dangerous places.

Inspection gaps

Aerial, topside, subsea and confined-space inspection data often arrives in separate files, separate systems and separate timeframes.

Shutdown pressure

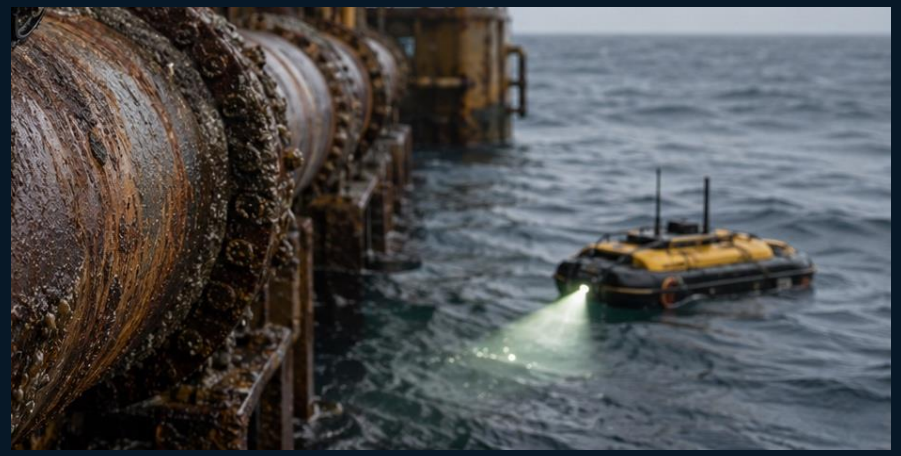
Inspection windows are expensive. Every extra hour increases production risk and contractor cost.

Safety exposure

Rope access, confined spaces and diver support still put skilled people into high-risk zones.

Slow evidence loop

Damage signals may be found days after the mission, when the crew and equipment have already left the asset.



The buyer is not asking for another robot. They need a live, defensible asset condition picture.

The solution

One inspection fabric for air, sea and steel — built for continuous asset truth.



GulfSync Control Layer

A mission operating system that turns mixed robots into one coordinated inspection crew.

- Robot-to-robot task handoff when a defect is detected
- Shared spatial map across air, waterline and structure
- Live anomaly triage before the crew leaves the asset
- Condition record pushed into the customer’s asset register

Product architecture

A mixed fleet, one map, one evidence trail.

FIELD ROBOTS

Aerial drones
visual / thermal / LiDAR

Sea drones
surface relay / sonar

Crawler robots
UT / close visual

CONTROL LAYER

RigMesh OS
edge sync + mission brain

ASSET TRUTH

Live digital twin
condition map

Evidence pack
photos / UT / defects

Operator
dashboard

Technology snapshot

Initial system specifications and operating targets.

Domain	Inspection payload	Endurance	Precision target	Sync role
Aerial drone	4K visual, thermal, micro-LiDAR	55 min	±1.5 cm mapping	fast topside scan
Sea drone	sonar, relay mast, waterline camera	18 hrs	±4 cm position hold	surface base + comms
Subsea unit	HD low-light, acoustic imaging	6 hrs	2 mm crack cueing	subsea first pass
Crawler robot	UT thickness, macro visual, magnetic grip	8 hrs	0.3 mm wall loss	close confirmatory check
RigMesh OS	SLAM fusion, anomaly AI, task scheduler	edge + cloud	<250ms fleet sync	mission brain

Edge AI stack

- Defect cueing
- Cross-domain SLAM
- Fleet task allocation
- Evidence traceability
- Offline-first mission mode

Certification targets: hazardous-zone operating envelope, marine-grade ingress protection, auditable inspection record.

Customer workflow

From planned inspection to live asset evidence in one pass.

01

Plan

Upload asset drawings, previous defect history and inspection rules.

02

Launch

Mixed fleet deploys from crew boat or platform deck.

03

Detect

Aerial and sea units find anomalies and route crawler/subsea units.

04

Confirm

Close robot confirms thickness, corrosion, crack or coating failure.

05

Decide

Dashboard ranks repair urgency before demobilisation.

Output: an auditable asset condition pack with evidence, location, severity, recommended follow-up and confidence level.

Market opportunity

Gulf of Mexico inspection automation wedge.



$8.6B

global TAM

$1.2B

Gulf SAM

$96M

target 5-year SOM

Sizing logic

Start with offshore inspection, integrity monitoring and robotic services spend.

Narrow to Gulf of Mexico production, platform, pipeline and decommissioning inspection demand.

Assume initial capture through high-risk, high-frequency assets before fleet-wide expansion.

Sizing is based on offshore inspection, integrity monitoring and robotic services spend, narrowed to Gulf of Mexico production, platform, pipeline and decommissioning demand.

Business model and pricing

Hardware-enabled software and services. Land with missions. Expand into continuous monitoring.

Mission

$48k

single full-rig robotic inspection

- mixed fleet deployment
- live anomaly dashboard
- evidence pack

Asset subscription

$18k/mo

continuous inspection readiness per asset

- RigMesh OS license
- model updates
- quarterly missions

Fleet license

$420k/yr

multi-asset operator license

- central dashboard
- API export
- priority mission support

Gross margin target: services 52–58%; software/subscription 82–88%; blended 74% by Year 5.

Current traction

Early validation milestones and commercial pipeline.

Q1 2026

bench demo

three robot feeds fused into one map

Q2 2026

dock trial

crawler + surface relay validated in saltwater

Q3 2026

simulated rig

48-hour continuous inspection rehearsal

Q4 2026

paid pilot target

first operator-funded mission

Pipeline

12 target assets in qualification; 4 paid pilots targeted; 2 fleet subscriptions targeted by end of Year 2.

Go-to-market

Sell to the inspection pain owner first. Then expand into the asset owner’s operating rhythm.

Beachhead

Gulf of Mexico offshore operators with recurring integrity spend and high contractor dependency.

First buyer

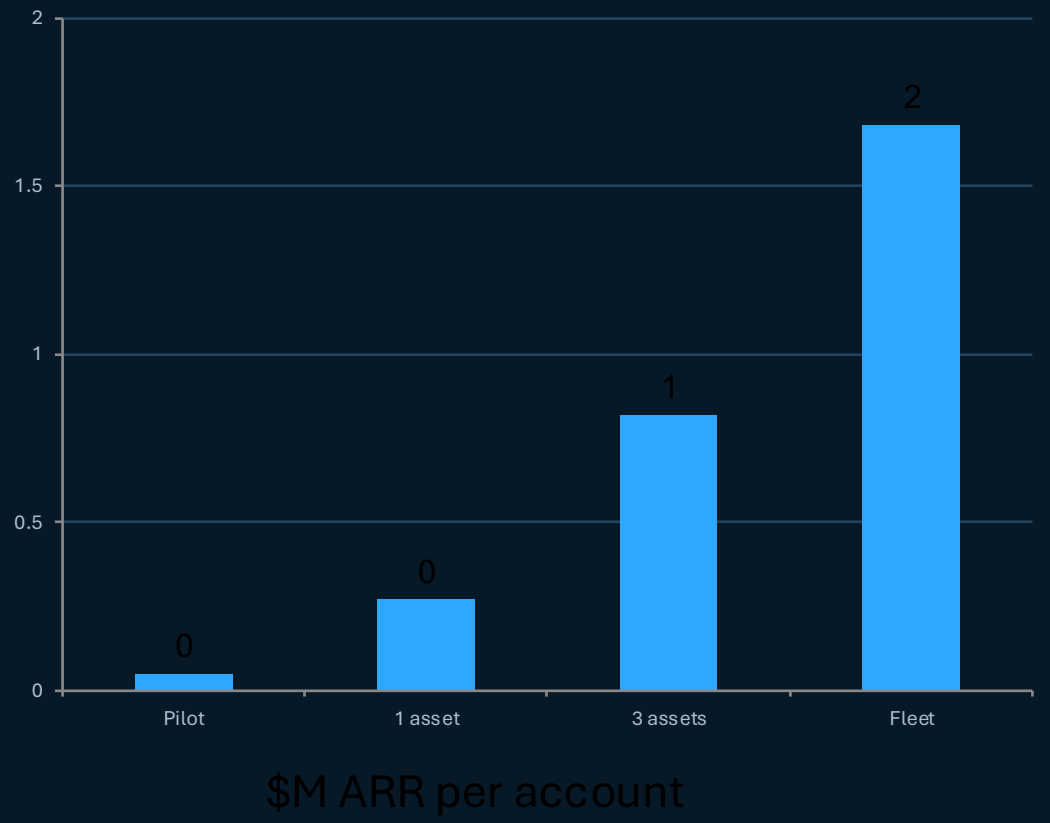
Asset integrity, operations, maintenance, and HSE leaders who carry inspection downtime and safety exposure.

Channel

Specialist inspection contractors, marine support firms and integrity advisors needing robotic differentiation.

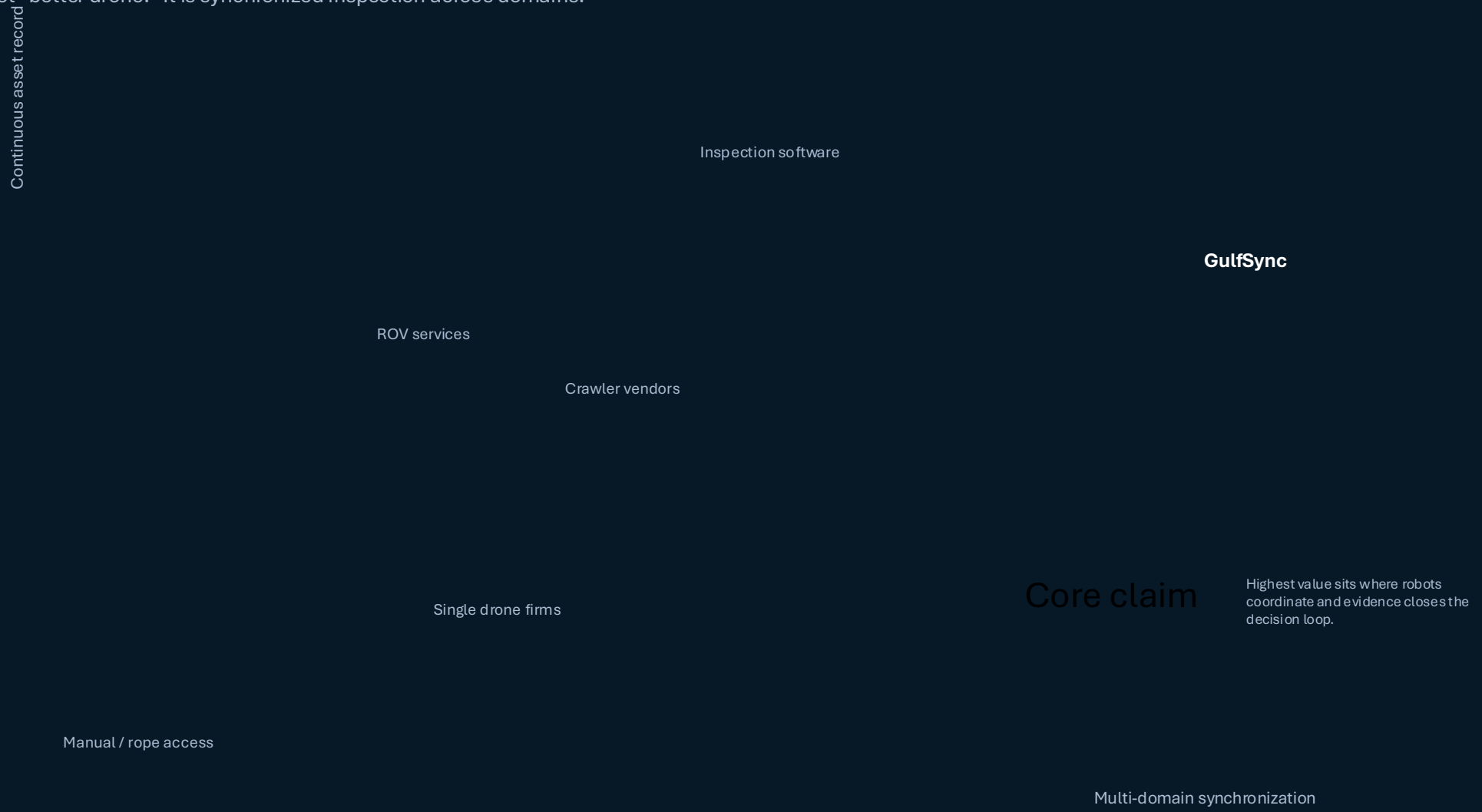
Expansion

Fleet-wide dashboard, data history, benchmarking, repair planning and insurance-grade evidence packs.



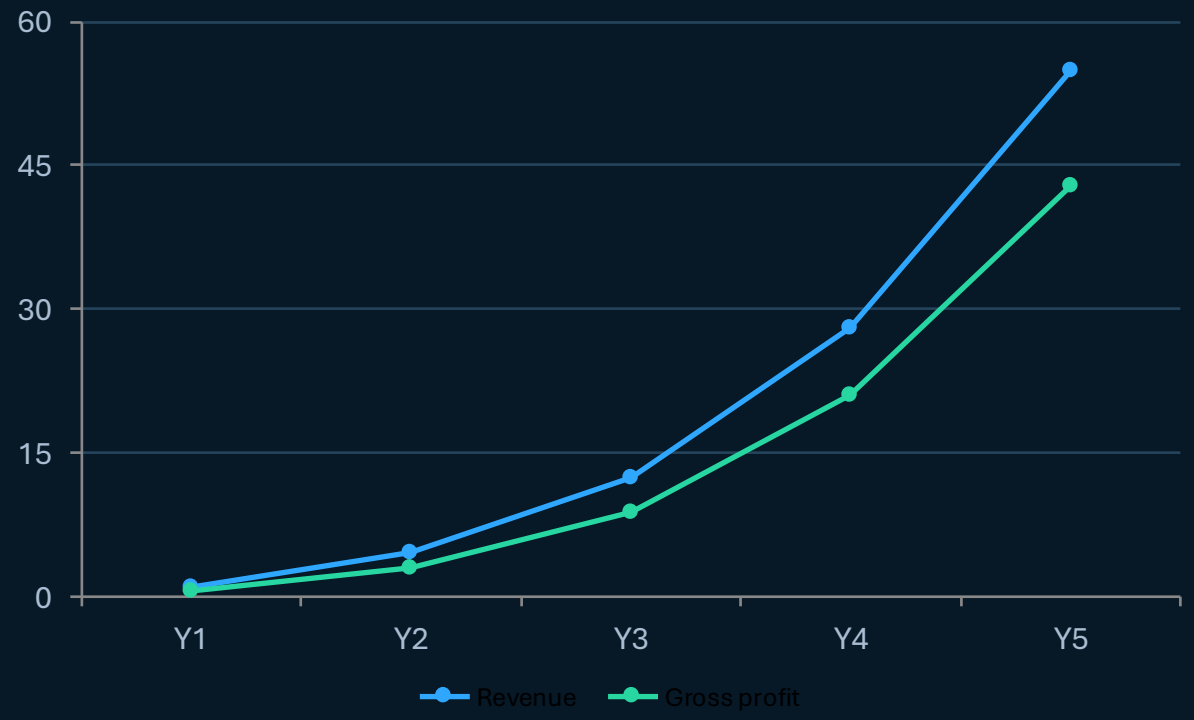
Competitive position

The wedge is not “better drone.” It is synchronized inspection across domains.



Financial model

Five-year plan converting paid pilots into recurring asset subscriptions.



$55M

Y5 revenue

78%

Y5 gross margin

<9 months

Payback target

Y3

EBITDA breakeven

Revenue mix by Year 5: 61% subscriptions, 27% mission services, 12% data/API and reporting.

Forecast assumes paid pilot conversion into recurring asset subscriptions, plus software and data/API expansion across multi-asset operators.

Team

Lean founder-led team with planned specialist hires after seed.

Edward Halpin

Founder & CEO

Company building, AI-enabled market analysis, industrial partnerships and go-to-market strategy.

TBD

TBD

Chief Robotics Engineer

Autonomy, marine robotics, ruggedized field systems and safety-critical deployment.

TBD

TBD

VP Inspection Integrity

Offshore inspection workflows, NDT standards, asset integrity and operator qualification.

TBD

TBD

Head of Field Ops

Mission planning, crew operations, contractor management and Gulf deployment logistics.

Seed hiring plan: robotics lead, inspection SME, field operations lead, 3 autonomy/software engineers, 2 inspection analysts.

Seed round

Raise capital to prove paid missions, qualify the operating envelope and convert into recurring asset subscriptions.

$4.2M

seed round sought

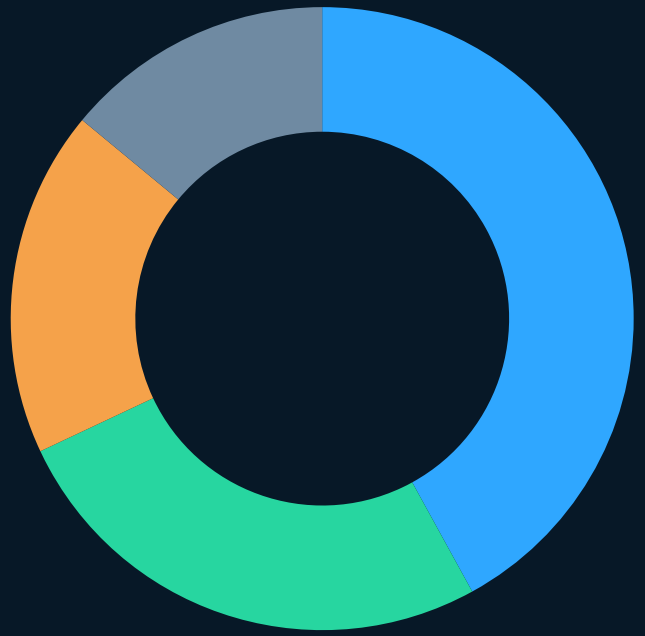
18-month runway

3 paid offshore pilots

safety case and operating procedures

fleet sync hardening

first subscription conversions



42% Product & autonomy

26% Field trials

18% Sales & partnerships

14% Compliance & ops

Milestone by Month 18: four assets inspected, two converted subscriptions, validated safety case, repeatable mission economics.