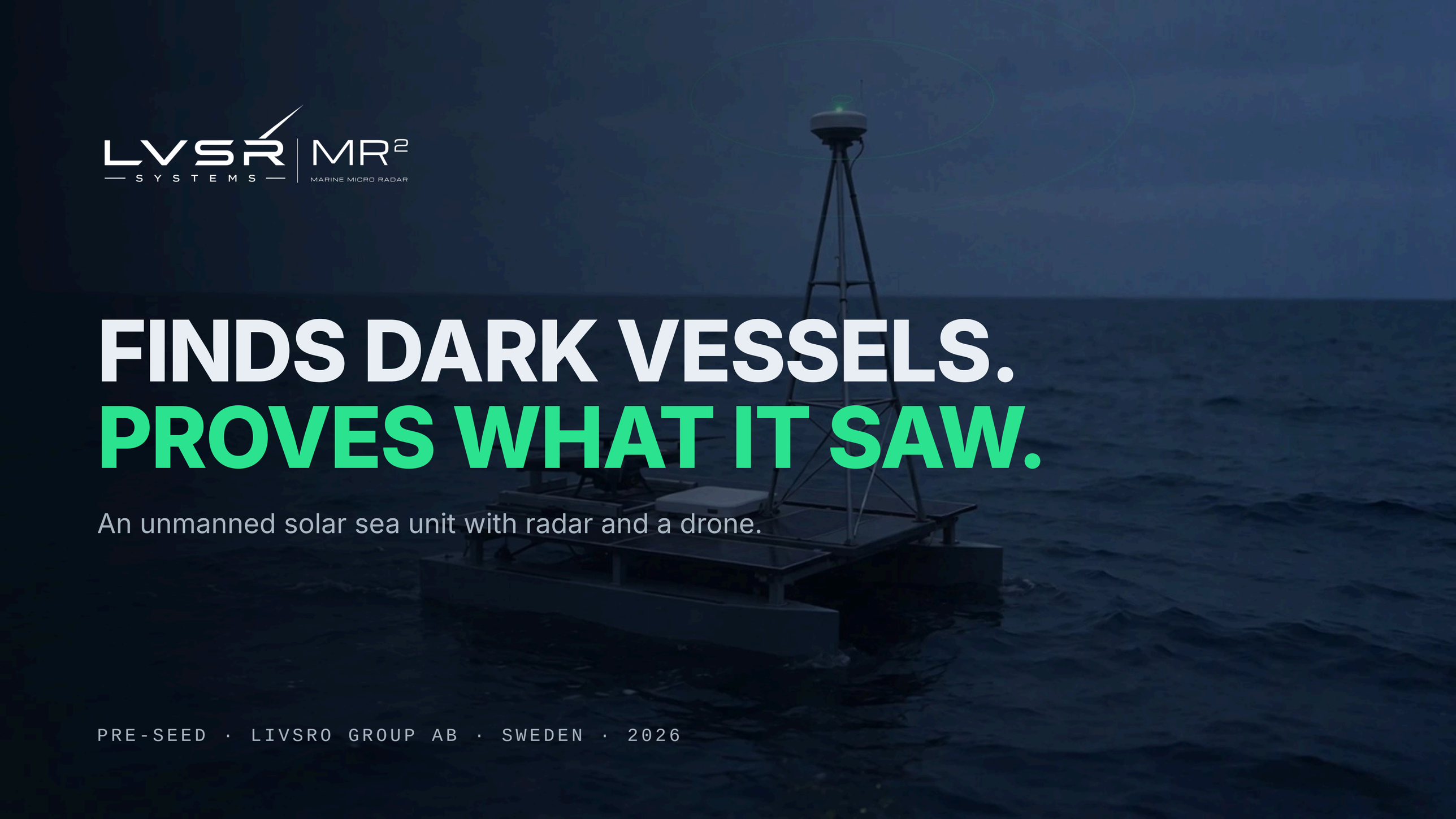


FINDS DARK VESSELS. PROVES WHAT IT SAW.

An unmanned solar sea unit with radar and a drone.

PRE-SEED · LIVSRO GROUP AB · SWEDEN · 2026

THE PROBLEM

THE VESSELS THAT MATTER ARE THE ONES NOBODY SEES

TRANSPONDERS GET SWITCHED OFF

A vessel that turns off AIS disappears from the public picture. Smugglers, illegal fishers and saboteurs rely on it.

COASTAL RADAR STOPS AT THE HORIZON

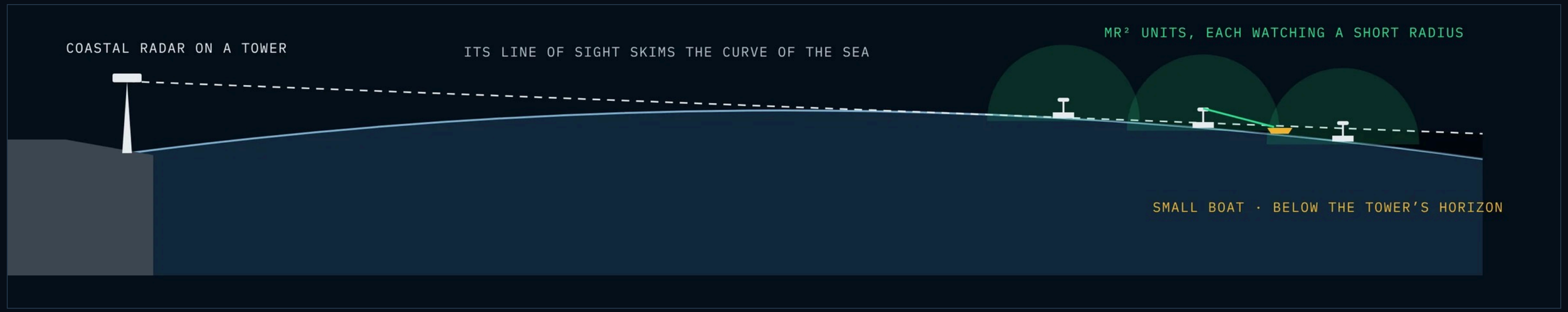
A radar on land cannot see small boats beyond the curve of the earth. Most of the sea is unwatched.

PATROLS ARE FEW AND COSTLY

Ships and aircraft with crews cannot be everywhere, and an echo on a screen is not proof of anything.

THE RADAR HORIZON

SMALL BOATS HIDE BELOW THE HORIZON



A big radar on land looks from far away and misses what sits under the curve of the sea. MR² puts small radars out where the boats are.

THE PRODUCT

MR²: A SMALL RADAR, PLACED WHERE THE GAP IS

- An unmanned catamaran, 1.2 × 1.1 m, that stays at sea on solar power.
- Radar, a drone with its own dock, and a sealed evidence system on board.
- Reacts only to vessels that are on no system. Everything else is ignored.



HOW IT WORKS

FROM DETECTION TO YOUR SCREEN. NO ONE AT SEA.

01

DETECT

Radar picks up a vessel that is not on AIS or in the customer’s systems.

02

PHOTOGRAPH

The drone launches by itself and photographs the vessel from the air.

03

SEAL

Every picture is encrypted and signed on board, the moment it is taken.

04

SEND

The drone docks. The satellite link wakes, sends the sealed files and sleeps.

05

ACT

The operator clicks the contact on a live map and sees the pictures.



WHAT THE OPERATOR GETS

A RADAR ECHO IS A DOT.
THE DRONE MAKES IT A PICTURE.

PREDICTION

PREDICTS THE ROUTES DARK VESSELS WILL TAKE

- Every track gets a projected course on the map, from its speed and heading.
- Verified detections build up a picture of the routes dark vessels use.
- The software then suggests where to place units to meet the next crossing.



Planned software. Green: MR² units. Amber: an unknown vessel’s track and its projected course. Grey: routes learned from earlier detections.

WHAT WORKS TODAY

THE EVIDENCE CORE
ALREADY RUNS ON A DRONE

Capture and sealing work on real hardware. A picture changed by one pixel afterwards fails verification.

01

LOCKED

Encrypted the instant it is recorded.

02

SIGNED

Each unit signs its own captures.

03

CHAINED

Every event locks the one before it.

04

YOURS

The customer holds the keys. Never on the unit, never with us.

WHY NOW

$796M

raised by European maritime autonomous systems in 2026, more than in all earlier years combined.

BUYER

COAST GUARDS AND NAVIES

Watch water beyond the coastal radar.

BUYER

CUSTOMS AND FISHERIES

Evidence that holds up in a case.

BUYER

INFRASTRUCTURE OWNERS

Cables, pipelines and wind farms.

Source: Dealroom and Resilience Media, reported by Tech.eu, 5 October 2026.

WHY THIS APPROACH

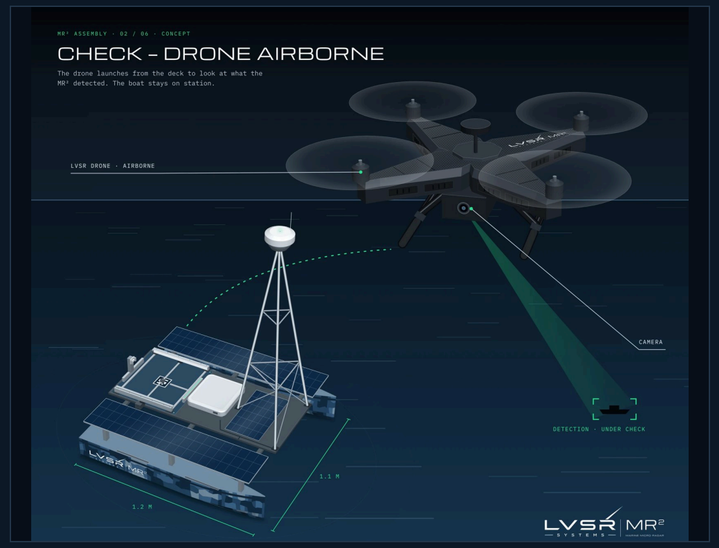
MANY SMALL RADARS BEAT ONE BIG ONE

- Each unit sees about 5 km. A line of units covers what one coastal radar cannot.
- Units share one picture, so a track is handed from one to the next.
- Low cost per unit: losing one is a small loss, not a mission failure.
- Evidence is built in from the start, not added afterwards.

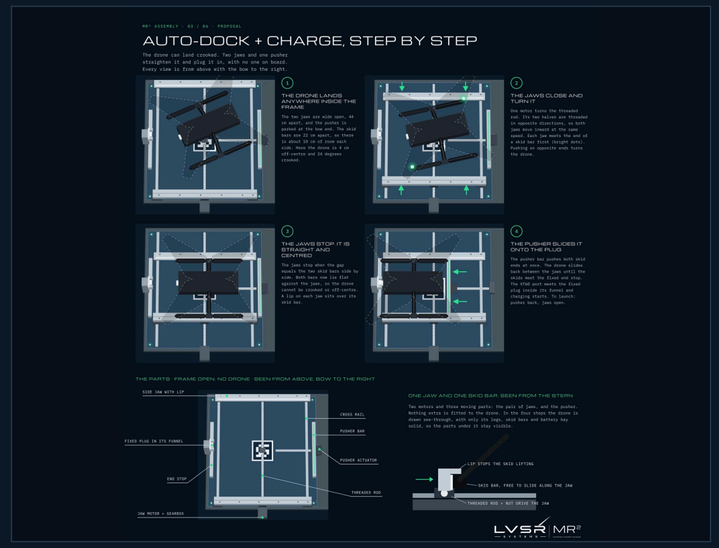


ENGINEERING

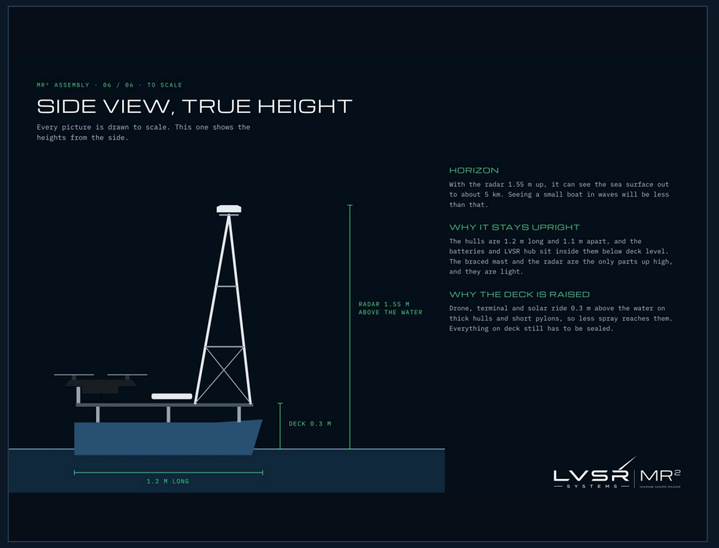
DESIGNED IN DETAIL



DRONE AIRBORNE



AUTO-DOCK AND CHARGE



SIDE VIEW, TRUE HEIGHT

Concept drawings. The sea unit has not been built yet.

STATUS AND PLAN

BUILT, NOT PROMISED

WORKING

EVIDENCE CORE

Capture and sealing on real hardware. Facility software that verifies and opens the files.

NOW

REFERENCE DRONE

The drone flying with the evidence system. Security hardening.

WITH THIS ROUND

FIRST SEA UNIT

Hull, radar, drone dock and live map. Then a sea trial with a first agency.

Nothing maritime has been built or tested at sea yet. That is what this round pays for.

THE ASK

4 MILLION SEK

Pre-seed round to take MR² from a working evidence core to a first unit at sea.

EQUIPMENT

Radar, hull, drone dock and test gear for the first sea unit.

FOUNDER TIME

Moves the founder to full-time focus on MR².

SEA TRIAL

A first trial at sea with an agency, and the results to show for it.

FOUNDER

AXEL MIKKONEN LARSSON

Founder of LVSR Systems, a Livsro Group AB company in Sweden. Built the evidence core and the drone prototype alone.

TODAY

SOLO FOUNDER

Product, software and prototype built in-house.

WITH THIS ROUND

FULL-TIME FOCUS

The round frees the founder to work on MR² full time.

CONTACT

LVSRSYSTEMS.COM

info@livsroab.se
50-second concept film on the website.