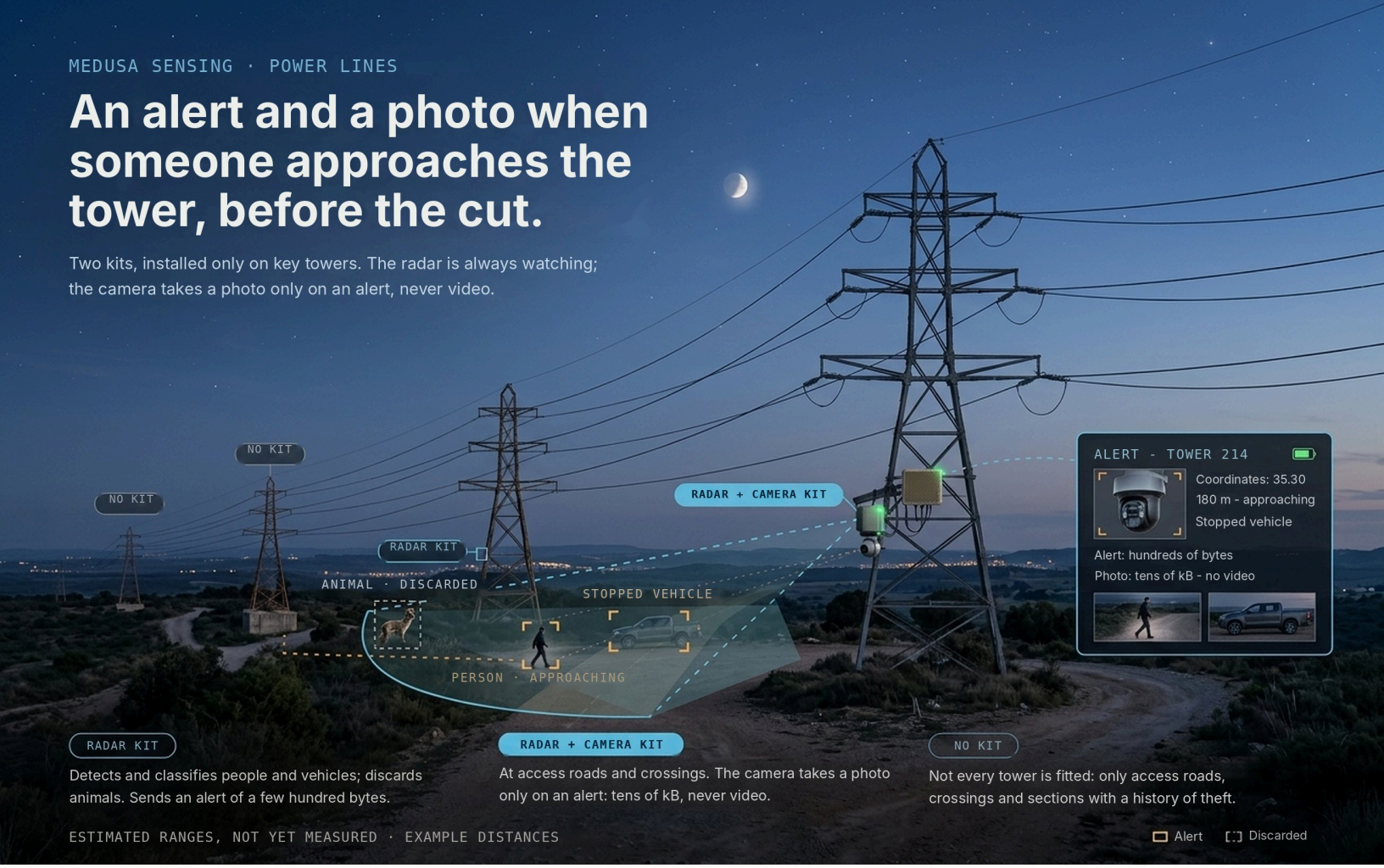
MEDUSA SENSING · POWER LINES

An alert and a photo when someone approaches the tower, before the cut.

Two kits, installed only on key towers. The radar is always watching; the camera takes a photo only on an alert, never video.



THE PROBLEM

Transelec reported 100 thefts and 85 tonnes of copper stolen between January and May 2026. A single incident in April damaged nine high-voltage towers.

The cost is not the metal, but the towers, the line out of service and the crews diverted. Current sensors raise the alarm once the conductor has already been cut.

MATURITY

Not yet measured in the field. The first step measures, in two or three weeks and before installing anything, how far away a person is actually detected; that figure defines how many kits are needed and where. The night camera is evaluated in the same pilot.

REFERENCE FIGURES

Range, vehicle	300 to 350 m
Range, person	150 to 200 m: minutes of warning
Deployment	Key towers only: access roads and crossings
Power	A few watts, with a solar panel
Communications	Alert in bytes; photo in kB

Ranges estimated with the radar equation from the chip manufacturer's data; they are not our own measurements.

THE ASK

A two-phase pilot, with funding defined jointly. Phase 1: measure the real range in two to three weeks, which defines how many kits are needed and where. Phase 2: three to five towers on a section with a history of theft, including one access point with a Radar + Camera Kit, over 10 to 16 weeks.

Víctor Gacitúa Molina, Founder & CEO · MEDUSA Sensing SpA · contacto@medusasensing.cl · +56 9 7399 5183

Public disclosure document, with no NDA-restricted information. Figures are estimated and not yet experimentally validated.