



PATTON AI

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CIVILIAN JOBS

The commercial markets where extreme-environment autonomy becomes real revenue

Offshore Energy · Mining · Ports · Linear Corridors
Disaster Response · Heavy Construction · Maritime · Lunar & Planetary

Detailed market opportunity | 2025–2033 horizon

THE SCALE OF THE OPPORTUNITY



**These are not niche experiments.
They are multi-billion-dollar operating budgets.**

Operators in offshore energy, mining, ports, and critical infrastructure already spend heavily to keep people safe and assets running when GPS drops out, communications degrade, or the environment turns hostile. Most of that spend still goes to manned vessels, single-platform tools, or loosely integrated fleets that break under pressure.

Patton AI sells the missing layer: a command system that treats the mixed team — drones, surface vessels, ground robots — as one coherent force, with persistent mapping, self-healing networks, and full human authority.

\$14–16B

Offshore IRM & O&M
(2025)

\$5.4B

Autonomous Mining
Equipment (2026)

\$11B+

Port Security
Systems

\$6–9B

Corridor Inspection
(Power + Pipeline)



The largest near-term commercial prize

MARKET

\$14–16B in 2025

Growing to \$22–30B+ by 2030–31

Offshore inspection, repair & maintenance plus broader infrastructure O&M. Aging platforms + rapid offshore wind build-out drive sustained spend.

WHY PATTON FITS

Under platforms and in poor visibility, GPS and reliable comms disappear. Operators need USVs, ROVs, AUVs and aerial drones working as one team — not as separate contracts. Self-healing coordination and relative localization cut vessel days and keep people out of the highest-risk zones.

Buyer profile: Supermajors, NOCs, offshore wind developers, IRM service companies. Willingness to pay is high when downtime and safety risk are measured in millions per day.

Near-term path: Autonomy and operations software layer for mixed inspection fleets — sold into existing IRM and O&M budgets.

Opportunity ranking: #1 for revenue velocity and technical fit.



Safety, utilization, and denied-environment command

MARKET

**\$5.4B autonomous equipment
in 2026 → ~\$12B by 2033**

CAGR ~11–12%. Driven by safety mandates, labor shortages, and the push for fully autonomous mine sites.

THE GAP

OEMs dominate individual machines. Cross-fleet, multi-vendor orchestration with explainable tasking and energy-aware team planning is still open territory — especially underground where GPS never existed.

Value levers for the buyer: fewer people in high-risk zones, higher truck and drill utilization, continuous mapping that survives shifts and failures, and an audit trail for every autonomous decision.

Patton's role: the site-level command and coordination layer that sits above the machines — sold to large mining houses and progressive contractors.

Opportunity ranking: #2 — strong technical fit, clear ROI, established capital budgets.



Security, inspection, and logistics under real-world RF chaos

Port Security Systems

~\$11B

2025 global market, growing ~8% CAGR. Includes waterside, perimeter, and emerging air/counter-UAS layers.

USV / UAV Port Ops

\$1.8–3.8B+

Fastest-growing subset. Harbor security robots and autonomous surface vessels for patrol and inspection.

Why it fits Patton

High

Busy harbors are RF-noisy and congested. Mixed air + surface teams that keep working when links degrade are rare and valuable.

Buyers: Port authorities, terminal operators, coast-adjacent energy facilities, and security integrators. Entry path is often through security or inspection pilots that expand into persistent multi-asset operations.

Opportunity ranking: #3 — large budgets, visible pain, strong multi-domain fit.



Pipelines, power transmission, and rail corridors

Combined drone and robotic inspection markets for power lines and pipelines already sit in the multi-billion range. Power-line inspection alone was estimated around \$6.8B in 2025 with drone-based work as the fastest-growing slice. Pipeline drone inspection is a separate multi-billion segment growing double-digits.

WHAT BUYERS ACTUALLY NEED

Not another single drone that flies a corridor. They need coordinated teams that share a persistent map, hand off tasks, flag anomalies with priority, and keep working across remote stretches where coverage is patchy. That coordination and prioritization layer is where most current vendors are still weak — and where Patton is strong.

Buyers: Pipeline operators, utilities, rail networks, and the service companies that inspect for them. Regulatory pressure and wildfire / leak liability keep budgets healthy.

Opportunity ranking: #4 — large, recurring inspection spend with clear differentiation on multi-agent coordination.



Disaster response, heavy construction, commercial maritime

Disaster Response & SAR

When towers are down and GPS is unreliable, mixed air/ground/surface teams still have to move with purpose. Explainable tasking and self-healing networks matter more here than almost anywhere else. Revenue is event-driven and often government or insurance-linked, but willingness to pay for capability that actually works is high.

Heavy Construction & Civil Sites

Mega-projects generate more survey and progress data than teams can use. A shared command and mapping layer turns drones and autonomous ground equipment into coordinated action instead of another ignored dashboard. Large contractor and owner budgets; competition from construction-tech players is rising.

Commercial Maritime Support

Ship-to-shore, survey, and coastal logistics are adopting USVs. The limiting factor is rarely the boat — it is keeping several of them working together without a room full of operators. Command-layer opportunity is clear and still relatively open.

The long-horizon market where the hard problems become mandatory



There is no GPS on the Moon or Mars. Light-time delay kills real-time remote control beyond cislunar space. Communications drop. Dust, radiation, thermal extremes, and unmapped terrain stack up. Teams of vehicles must keep working with only intermittent contact from Earth, share maps, elect new leaders when a unit fails, manage power ruthlessly, and leave every critical decision auditable.

NEAR-TERM REALITY

Pure mining revenue is still years away. The first money is in the autonomy and operations layer for surface teams supporting NASA CLPS, Artemis architecture, and commercial lunar services. Technical differentiation is high; sales cycles are long and capital-intensive.

STRATEGIC VALUE

This is one of the few domains where Patton's hardest capabilities — denied-environment coordination, self-healing teams, explainable autonomy under latency — become table stakes rather than nice-to-haves. Positions the company for the next decade of surface operations.

Ranking: Strategic / long-horizon. Do not expect it to fund the company the way offshore or mining contracts will in the next 24–36 months.

Focus creates revenue. Sequence creates leverage.

- 1 Offshore Energy IRM / O&M**
Highest \$ · Highest fit · Fastest path into existing budgets
- 2 Mining (surface + underground)**
Clear ROI on safety & utilization · Capital budgets already open
- 3 Ports & Coastal**
Large security/inspection spend · Multi-domain demonstration value
- 4 Linear Corridors**
Recurring inspection revenue · Coordination differentiation
- 5 Disaster / Construction / Maritime**
Selective pursuit where relationships or pilots open doors
- 6 Lunar / Planetary**
Strategic positioning · Parallel R&D and partnership track



PATTON AI

THE BOTTOM LINE

**Tens of billions in operating spend already exist
in environments that break ordinary autonomy.**

Patton AI is the command layer built for those environments —
on Earth first, and ready for the surface of the Moon when the market arrives.

Pick the segment. We bring the team that keeps working.

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