Autonomous Litter Collection — From Bondi Trial to Commercial Scale

01 — THE CHALLENGE

Veolia's "Scoop Doggy Dog" trial at Bondi Beach proved that quadrupedal robotic litter collection works on complex coastal terrain. But the prototype was just that — a prototype. Meanwhile, manual litter collection across your ANZ contract portfolio remains labour-intensive, difficult to staff, and inconsistent in coverage. The concept is validated — what's missing is the commercial product.

02 — OUR SOLUTION

CleanWalker is the production-grade system that makes your Bondi vision scalable:

- **AI-powered detection** across 20+ litter categories (25,000+ real-world images)
- **All-terrain quadrupedal locomotion** — handles beaches, coastal walks, stairs, curbs, and parkland
- **Production-grade reliability** — 2,000+ hour MTBF, IP65 weatherproof (salt spray and rain rated), 15–20L collection capacity
- **Fleet management dashboard** for real-time monitoring and multi-unit coordination

Integrates with existing Veolia collection schedules — no new infrastructure required.

03 — PILOT PROPOSAL — 10 UNITS, 6 MONTHS

Deployment zones: Bondi-to-Coogee coastal walk, Centennial Parklands, and one additional Veolia-managed site

KPI	TARGET
Litter items collected per unit/day	Tracked & reported weekly
Coverage per shift	2,000–4,000 m²/hr per unit
System uptime	>90%
Labour hour offset vs. manual baseline	Measured against current staffing
Beach cleanliness score improvement	Pre/post deployment comparison

04 — VALUE PROPOSITION

1.5–2.5 FTE OFFSET PER UNIT	
40–60% COST REDUCTION AT SCALE	
RaaS ROBOT-AS-A-SERVICE MODEL	
Zero HARDWARE OWNERSHIP REQUIRED	

> A successful Sydney pilot creates the blueprint for deployment across Veolia's 56-country portfolio.

selection, and how CleanWalker integrates with your existing operations.

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