

01 — THE CHALLENGE

The City of Sydney manages one of Australia's most intensively used urban environments — 500,000+ daily visitors across 30+ parks, waterfront promenades, and commercial precincts. The AUD 86 million annual cleansing budget funds round-the-clock manual litter collection, graffiti removal, and waste services. With AUD 2.7 billion committed over the next decade for open space and infrastructure, the city is investing heavily in the public realm. Yet litter collection in parks, harbourside walks, and pedestrian zones still relies entirely on manual labour. As the first Australian council to go carbon neutral (2007) and now targeting net zero by 2035, Sydney is positioned to lead on autonomous public space maintenance.

02 — OUR SOLUTION

CleanWalker is the world's first commercial quadrupedal litter-collecting robot, engineered for urban park and waterfront environments:

- **AI-powered detection** across 20+ litter categories (25,000+ real-world images)
- **Four-legged locomotion** navigates grass, gravel, sand, boardwalk surfaces, and curb transitions
- **All-weather operation** — IP65 weatherproof with multi-shift capability (20+ hours/day)
- **Quiet operation** (<55 dB) suitable for residential parkland and harbourside promenades
- **Data integration** — litter heatmaps designed to feed into Sydney's CityConnect platform

Collected waste is bagged for existing City of Sydney collection routes — no new infrastructure required.

03 — PILOT PROPOSAL — 6 UNITS, 6 MONTHS

Deployment zones: Hyde Park / The Domain, Barangaroo Reserve foreshore, and Darling Harbour promenade

KPI	TARGET
Litter items collected per unit/day	Tracked & reported weekly
Coverage per shift	2,000–4,000 m ² /hr per unit
System uptime in coastal conditions	>90%
Terrain types navigated	Grass, gravel, sand, boardwalk, paved, curbs
Cleanliness score improvement	Pre/post measurement in pilot zones

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

Sydney's Waste Reduction & Circular Materials Strategy 2025–2035 sets a 10-year vision for circular economy outcomes. Autonomous litter collection generates real-time waste composition data that informs source-reduction policy — turning a cleaning operation into a data asset. With Veolia holding SSROC and NSRUC waste contracts across greater Sydney, a City of Sydney pilot creates a natural pathway to regional scale.

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