

**Autonomous Litter Collection — First-Mover for Vienna's Fleet Electrification****01 — THE CHALLENGE**

MA48 swept 10,291 tons of waste from Vienna's streets in 2023 and has committed EUR 56 million to replacing all 1,245 utility vehicles with electric alternatives — no new diesel from 2025. The Smart Klima City Strategy targets climate neutrality by 2040 across 74 measures. Yet autonomous street-level litter collection remains untested in Vienna. No pilot has been conducted. With ICRA 2026 coming to Vienna on June 1-5 — the world's premier robotics conference, themed "Robots for all" — the timing for a first-mover deployment is exceptional.

**02 — OUR SOLUTION**

CleanWalker is the world's first commercial quadrupedal litter-collecting robot, purpose-built for complex European urban terrain:

- **AI-powered detection** across 20+ litter categories (25,000+ real-world images)
- **Four-legged locomotion** navigates grass, gravel, cobblestones, curbs, and park paths
- **Fully electric, zero-emission** — aligns with MA48's fleet electrification and Smart Klima City 2040
- **Quiet operation** (<55 dB) suitable for residential Bezirke, parks, and pedestrian zones
- **IP65 weatherproof** for year-round Central European conditions

Collected waste is bagged for existing MA48 collection routes — no new infrastructure required.

**03 — PILOT PROPOSAL — 10 UNITS, 6 MONTHS**

**Deployment zones:** Prater Hauptallee, Donauinsel (Danube Island), and Stadtpark / Ringstraße green belt

KPI	TARGET
Litter items collected per unit/day	Tracked & reported weekly
Coverage per shift	2,000–4,000 m <sup>2</sup> /hr per unit
System uptime	>90%
Public interaction incidents	Zero
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

Vienna would be the first major European capital to deploy a commercial quadrupedal litter robot — a global first with immediate media impact. An operational pilot during ICRA 2026 (7,000+ attendees, June 1-5) means the world's robotics research community sees CleanWalker working in a real city, on real terrain. No better stage exists. Through Urban Innovation Vienna's international partnerships network, a Vienna reference carries weight across the EU.

ICRA 2026 timing, and pilot contact details:  
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