Company Profile

cdware TECHNOLOGIES

Pioneering Smart Routing & Field-Operations Intelligence for Public Works

Who We Are

Founded in 1997, CDWare Technologies has over 29 years of innovation in mapping, navigation systems, and AI for smart-city operations. Rasters.io is deployed in 100+ cities, supporting thousands of operators executing over 100,000 field activities annually.

Our Mission

Empowering cities with advanced mapping, telematics, and operational intelligence supported by industry-leading onboarding, support, and customer success.

Our Vision

Smart cities require integrated, infrastructure-first technology ecosystems that unify routing, compliance, fleet management, and field execution.

Innovation Timeline

- **2004–2012:** Defense &Coast Guard technology consulting; early IoT Contour platform.
- **2012–2014:** First responder navigation & drone photogrammetry.
- **2014–2017:** Launch of redesigned Rasters.io.
- **2019:** Turn-by-turn routing engine.
- **2022:** Feedback, forms & task workflows.
- **2023:** Geotab integration initiative.
- **2025:** Official Geotab Marketplace Partner Agreement.

What We Do

Rasters.io replacespaper-based public-works workflows with a real-time smart routing platform supporting snow operations, waste collection, and year-round field services. Features include turn-by-turn navigation, digital forms, anomaly reporting, dynamic routing, and complete operational visibility.

Who We Serve

Municipalities, counties, state agencies, and private contractors delivering snow, waste, and infrastructure maintenance services with high compliance and service-reliability demands.

Our Team

Aspecialized teamof software engineers, mapping, routing, and turn-by-turn navigation experts, and customer-success project managers, supported by broad ecosystem of Geotab reseller partners.

What Makes Us Different

20+years ofinnovation infield-operations technology; purpose-built for public works; deep Geotab integration; unmatched ability to navigate mixed road networks (highways, grids, alleys, sidewalks, trails) with real-time, two-way field-to-admin intelligence.

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Value Proposition

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Transforming Public Works Into Smart, Predictable, High-Performance Operations

The Challenge Public Works Teams Face Today

Municipalities, counties, state agencies, and contracted service providers must deliver reliable, compliant, and cost-effective services—snow, waste, sweeping, and seasonal operations—while navigating outdated workflows, inconsistent operator performance, high onboarding overhead, limited situational awareness, and reactive decision-making. Traditional logistics tools or paper-based processes simply cannot support the complexity of public-sector field operations.

The Rasters.io Value Proposition

Rasters.io+Geotab gives public works organizations the ability to operate predictably, efficiently, and compliantly—without increasing administrative burden or requiring deep GIS or IT expertise.Together, the platforms unify planning, in-cab execution, and operational monitoring into one seamless, data-driven workflow.

Ideal Customer Profile (ICP)

Public works organizations in municipalities, counties, state agencies, and contracted fleets—particularly those operating in:

- Snow-intensive or high-density regions
- Mid-to-large populations (25,000+)
- Environments with limited GIS/IT resources
- Mixed or contractor-heavy operational models

Personas Who Benefit

- Policy & Standards Leaders: compliance, service quality, and risk mitigation
- Operations Managers: visibility, efficiency, workforce orchestration
- Supervisors & Dispatch: real-time adjustments and oversight
- Operators: clarity, confidence, faster onboarding, safer workflows

Value Drivers

Reduce Hidden Operational Costs
Digital workflows eliminate repetitive onboarding, manual auditing, route guesswork, and costly re-runs caused by inconsistent or outdated routing methods.

Level Up Your Workforce — Instantly
Turn-by-turn guidance and embedded standards allow any operator—new, seasonal, or contracted—to perform with the consistency of your most experienced staff from day one.

Real-Time Visibility for Accountability & Compliance
Supervisors gain immediate insight into progress, deviations, incidents, and route completion—without relying on manual checks or field shadowing.

Stronger, More Resilient Operations
Dynamic updates allow teams to quickly adapt to closures, obstructions, weather changes, or staff shortages—reducing service disruptions and improving response times.

Empower Operators & Improve Workforce Retention
A structured, easy-to-use digital environment reduces stress, increases confidence, and supports a better operator experience— leading to stronger retention and performance.

Future-Ready Public Works
A scalable platform that supports snow, waste, sweeping, and multi-department expansion—without GIS complexity or IT overhead.

Bottom Line

Rasters.io transforms public works into a data-driven, high-performance operation— reducing costs, boosting reliability, elevating workforce performance, and strengthening public trust.

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Plan • Execute • Monitor

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Operational Intelligence for Public Works & Field Services

Overview

Rasters.io is a purpose-built platform that connects planning, field execution, and operational monitoring into one unified workflow. Seamlessly integrated with Geotab, it delivers precise routing, real-time visibility, and actionable insights to help public works teams operate with greater efficiency, accountability, and compliance.

01. Plan

- Build **routes from scratch**, import shape files, or generate routes from vehicle trip (breadcrumb) history.
- Create **compliant, policy-aligned routes** optimized for field-operations requirements and automatically synchronized with in-cab navigation.
- Fine-tune and **update routes or instructions on the fly**, pushing changes directly to operators for faster adaptation.

02. Execute

- Deliver precise **in-cab turn-by-turn guidance** across roads, grids, highways, and off-grid environments.
- Support **return-to-route recovery**, real-time updates, and progress-to-completion visibility, including tandem execution of shared routes.
- Maintain **alignment** through seamless communication between operators and administrators, with immediate field-level feedback.

03. Monitor

- Use **advanced dashboards and reporting** to visualize performance, compliance, and operational bottlenecks.
- Review **anomalies**—obstructions, accidents, or changes in field conditions—and instantly convert them into actionable tasks.
- Capture data and ensure **audit-ready compliance** through digital forms and structured field input.

Core Capabilities

- **Operational Intelligence:** Unified visibility of routes, crews, and progress.
- **Adaptive Routing Engine:** Dynamic, rules-aware routing with real-time updates.
- **In-Cab Workflow Automation:** Turn-by-turn guidance, return-to-route, and task updates.
- **Data Capture & Compliance:** Digital forms, structured feedback, and audit-ready records.
- **Deep Platform Integration:** Native connectivity with Geotab assets, data,and telemetry.

Competitive Differentiators

- **Purpose-Built for Public Works:** Designed for municipalities, state agencies, DOTs, and their contractors—purpose-built for field operations, not repurposed from logistics software.
- **Full-Network Turn-by-Turn:** Accurate navigation across roads, alleys, sidewalks, trails, yards, and off-road segments.
- **Real-Time Operational Adaptability:** Instant updates, deviation recovery, and live progress tracking.
- **Multi-Operator Synchronization:** Coordinate shared routes and balance workload across operators.
- **Native Geotab Integration:** Device-level alignment for superior accuracy and deployment simplicity.
- **End-to-End Workflow Coverage:** One platform spanning planning → execution → monitoring.

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Use Cases Summary

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Empowering Public Works Field Operations

The Snow Operations Platform — With Year-Round Power

Rasters.io gives field crews, supervisors, and contractors the tools to deliver consistent, high-performance service across Snow Ops, Waste Collection, and all Public Works functions.

The Snow Ops Advantage

- Priority networks and storm-triggered routing.
- Plowing + Salting + Sidewalks in one workflow.
- Return-to-route and real-time rerouting.
- Anti-icing and brine application guidance.
- Snow removal & hauling coordination.
- Storm dashboards: coverage %, SLA status, material use.
- Automatic post-storm audit packages.

RESULT: Reliable, compliant, predictable winter service.

Waste Collection Capabilities

- Route planning for garbage, recycling, organics.
- In-cab workflows for complex access patterns.
- Missed-stop & contamination reporting.
- Multi-stream scheduling and holiday routing.
- Container audits & asset condition tracking.

RESULT: Fewer complaints, lower operational cost, stronger accountability.

Year-Round Public Works Use Cases

- Potholes, crack sealing, pavement markings
- Signage, guardrails, vegetation control
- Bridge/signal/streetlight inspections
- Drainage, culverts, erosion monitoring
- Storm debris response and cleanup 311 verification & service validation

RESULT: A single platform powering the entire department.

Why Rasters.io Wins

- Built specifically for Public Works (not repurposed logistics).
- Deep, native Geotab integration.
- Full-network turn-by-turn (roads, alleys, sidewalks, trails).
- Real-time updates and two-way communication.
- Proven workforce leveling—new operators perform like experts.
- Compliance, reporting, and operational intelligence in one place.

The Bottom Line

Start with Snow Add Waste Deliver year-round excellence.
Rasters.io equips public-sector teams and contractors to be faster, safer, more consistent, and always audit-ready.

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