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Cisco Kinetic for Cities Waste Management

Transforming city waste management processes

Solid waste management is an increasingly critical issue for municipal authorities across the globe. The management of solid waste is often the single largest activity that a municipality undertakes, and the effectiveness with which it carries out this role is perceived as a reliable measure of its effectiveness in providing services to its citizens. Typically, solid waste management accounts for 15 to 50 percent of a typical municipality's total spending.

It is estimated that by 2025, around 4.3 billion urban residents will be generating about 3 pounds (1.5 kg) of municipal solid waste per capita each day (2.2 billion tons per year). Poorly managed waste has an enormous impact on health and the local and global environment, as well as the economy.

Benefits

- **Improve management with real-time visualization** of waste bin status that provides information to operators and agencies

- **Reduce response time to incidents** with real-time alerts on incidents such as bin overflow, fire within bins, or accidental or intentional displacement of bins from designated places

- **Reduce operational expenditures** with an optimized route feature for operators and collection managers, enabling them to collect and service bins based on the bin fill level and current traffic conditions

- **Gain informative insights with historical and trends reporting**

- **Reduce operational complexity** with a secured, vendor-agnostic, event-centric platform that integrates multivendor systems horizontally
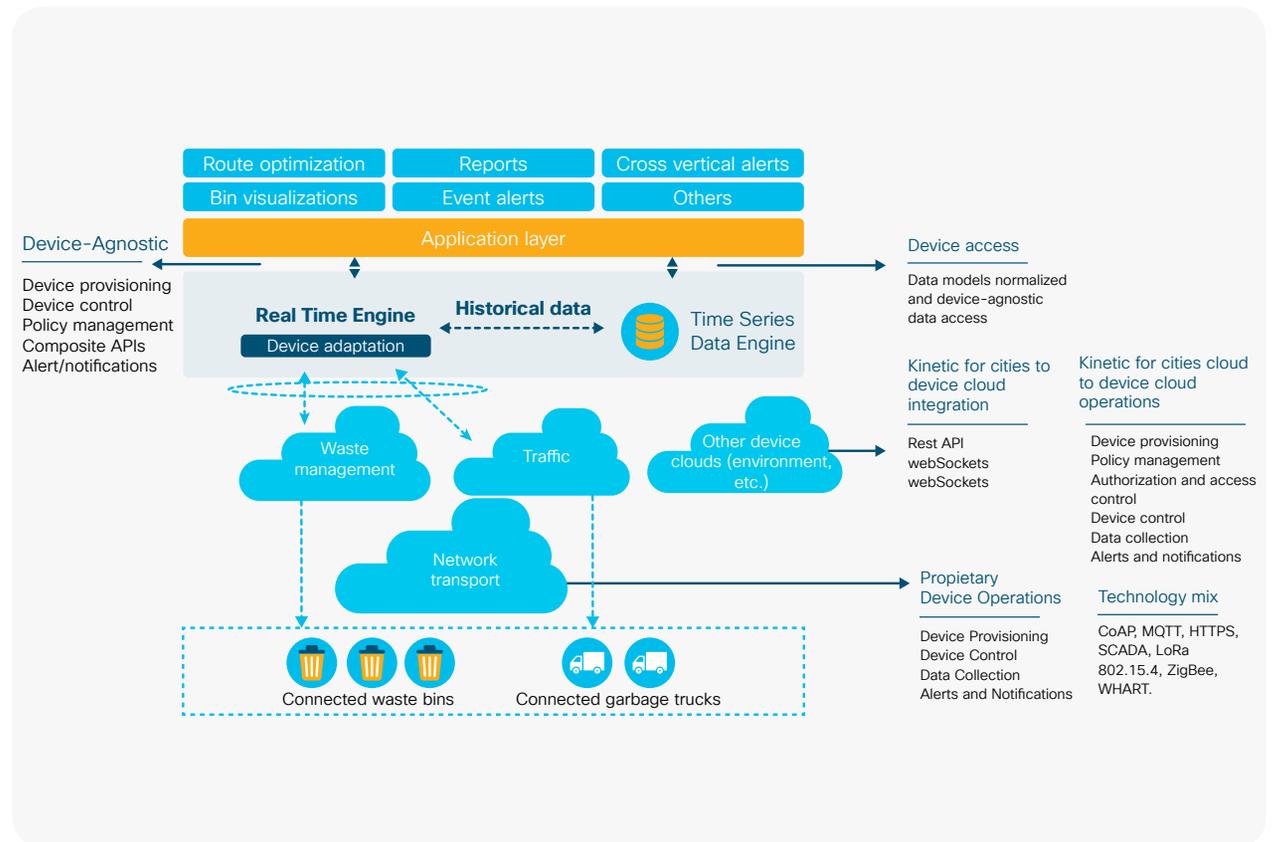
> **"[By] using sensors, digital management platforms, and analytics programs, we can achieve a number of benefits on the green transformation agenda in becoming carbon neutral. Today, we regard this as the most important accelerator for getting there."**

– Niels Carsten Bluhme,
Senior Director, Albertslund

Customer reference:

Ferrovial Services, in partnership with Granada City Council and Cisco, has implemented an urban laboratory in the city of Granada that is pioneering the application of data analysis to municipal services. The project focuses on increasing the efficiency of municipal waste collection by using urban data. http://www.ferrovial.com/en/press-room/news/dynamic-municipal-waste-collection-project-granada-spain

Cisco Kinetic for Cities Waste Management Solution Architecture

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Next steps

For more details, visit:

- Website: cs.co/cities
- Blogs: blogs.cisco.com/government
- Digital Transformation Map:
  cisco.com/go/digitalmap
- Cities Value at Stake: cs.co/digitalcity
- Follow the conversation: @CiscoGovt

Questions? Contact scc-global@cisco.com

Cisco® Kinetic for Cities Waste Management transforms city waste management processes from the ground up. The solution:

- Optimizes routes by providing real-time status of waste bins, with fill level and overflow alerts, as well as fleet status on a single platform
- Is vendor agnostic, with data aggregated from myriad sensors
- Provides distributed and event-centric information
- Normalizes and externalizes nonstandard technologies as model-driven APIs
- Enables visualization engines and applications
- Plays a vital role in breaking through silos and implementing truly connected departments that give a cohesive services to cities, agencies, operators, and citizens