



Clean Streets LA Project

Creating a litter-free Los Angeles

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Economic Prosperity and Quality of Life Tied to Neighborhood Cleanliness



Graffitied alleys, illegally dumped trash on street corners, and tons of garbage piled up in vacant lots threaten the quality of life, economic prosperity and health of Los Angeles neighborhoods along more than 9,100 miles of the city's streets

Driven by the perfect storm of recession and funding drought, Los Angeles' city cleaning services were significantly reduced throughout the country's largest municipal street network. Yet, neighborhoods experienced dramatically different levels of city cleaning services depending on their socio-economic standing.

Alleys, streets, sidewalks and public places in lower income communities suffered more from poor city cleaning services than higher income communities. Los Angeles Mayor Eric Garcetti and sanitation inspectors set out on a goal to eliminate dirty streets equally across all the city's communities. But they needed a new approach.

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Improving Los Angeles Neighborhoods Through Technology



- Los Angeles' Mayor and city officials wanted an innovative, high-volume, data collection system to monitor, prioritize and respond to city cleaning service needs—an advantage to ensure cleaner communities city-wide.
- Trash and graffiti images captured by cameras on city vehicles and citizen's cell phones are uploaded to a geocoding app.
- Integrated Media Systems Center, at the University of Southern California, uses Oracle's high-performance cloud infrastructure to quickly process the collected images using deep learning to label the image (e.g. bulky items, illegal dumping, etc.) and make it available to other applications to determine cleanliness scoring, notify the city for resolution and track cleanliness changes.
- Los Angeles is leading the way as the only U.S. big city conducting regular cleaning assessment of every city street. Quarterly the Bureau of Sanitation drives and scores the more than 9,100 miles of Los Angeles streets and alleys assigning each segment a cleanliness score.
- Tackling street cleaning on a micro-level empowers the city and Los Angeles' residents to use data to drive improvements that will positively impact quality of life, economic prosperity and health of their communities and neighborhoods.