



Project Title: Miami-Dade Smart Curbs Program

Location: Miami-Dade County, FL

Timeline: August 2023 - September 2025

Pilot area: Downtown Miami and Brickell

Problem Statement

Miami-Dade is the largest county in the state of Florida and one of the fastest growing in the Country. In recent years they have added significant mileage to their separated and protected bike network. However, the dedicated lanes have resulted in reductions to curbside parking and loading spaces and there is now increased pressure on the spaces that remain, with delivery drivers sometimes opting to block a travel lane or impede a bike lane in order to complete their delivery. This project seeks to explore how the use of digital tools can deepen understanding of the use of the curb and improve curb utilization for loading and access.

Project Overview

This initiative, part of a larger multi-city collaborative effort, aims to significantly enhance urban transportation systems within Miami-Dade County by addressing complex challenges in bike lane safety, e-delivery/micro-freight monitoring, secured micro-freight parking, and common freight analytics. By addressing high-traffic areas with innovative solutions, SMART Loading Zones will create a more organized and efficient curbside experience for residents, businesses, and delivery drivers.

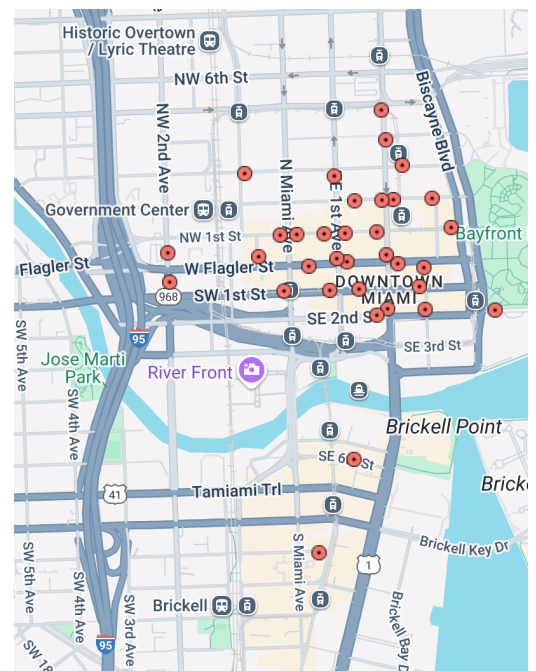
Miami-Dade County aims to make information about the technology and data being used for the SMART Curbs Program available in a comprehensive, easy-to-understand format to the public for improved transparency, legibility, and accountability.

How did you select the study area?

Downtown Miami represents a dense urban area, business and job center in an area heavily impacted by future sea level rise. This area will be a useful proving ground for policies and technologies that might be scaled to other areas of the City and County.

Technology Partners and Outputs

In addition to technology partners, Miami-Dade County engaged with delivery drivers for intercept, digital surveys and focus groups to better understand the needs of the food delivery community, and moped riders in particular.





Purpose	Details	Vendors	Key Stats
Create a digital curb inventory	Obtain a digital curb inventory		Entire Miami-Dade County
	Combine digital streams into a comprehensive data visualization platform		Incorporate curb inventory, events, VIA microtransit zones, and Decobike stations
Curb occupancy monitoring	Utilize camera technology to monitor curb occupancy at select zones		26 Automotus cameras installed

How was CDS used in this project?

- Vendors used CDS format to facilitate data sharing and interoperability between systems.

Key Challenges

- The prioritized Smart Loading Zone (SLZ) locations were selected in areas of high commercial, pedestrian, and vehicular traffic, which fell under both Miami-Dade County and City of Miami jurisdictions. Because neither jurisdiction had clear guidance on permitting requirements, the process was complicated and inconsistent.

Key Learnings

- Because the pilot crossed multiple jurisdictions, all stakeholders should have been formally engaged from the outset, not only DTPW. Earlier inclusion of the City of Miami—with shared communications and messaging—would have built ownership and mitigated later challenges and coordination with Parking Authority can help this work by informing long-term planning.
- Early community engagement proved critical. Input from stakeholders directly shaped and validated the final use cases for the pilot.
- DTPW is only just beginning to gain visibility into the CDS for this project, but they hope to use the data to improve planning of the curb. They have a strong interest in facilitating



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accessibility use cases and the opportunity to leverage this information in preparation for Miami hosting the World Cup later next year.

Quick Links

[Smart Curbs Project](#)