



## CHALLENGES



For decades, Flint relied on hand-collected, bagged trash and single-stream recycling with low participation rates. The city faced mounting operational and community challenges, including:

- Persistent blight and rodent issues
- Manual collection increasing worker safety risks
- Inconsistent containers contributing to litter
- Changing collection contractors disrupting continuity
- Market pressure to modernize through automation
- Funding constraints delaying implementation

Despite long-standing plans to transition to carts, progress stalled year after year.

## THE NUMBERS



**71,000**  
Curbside Carts



**81,512**  
Population of Flint



**3,200**  
Homes Served



**3 WEEKS**  
Deployment Timeline

## SOLUTIONS



Flint implemented a comprehensive cart-based system:

- 96 Gallon carts for trash
- 64 Gallon carts for recycling
- 71,000 total carts produced and delivered
- CartLogic® delivery and asset management software
- Heat map tracking to visualize real-time delivery progress across the city

Cascade worked closely with the City of Flint, EGLE, and The Recycling Partnership to secure funding and coordinate resident education and outreach.

A major sustainability milestone supported the project: Dow Chemical donated 1.2 million pounds of resin, enabling rapid production and delivery.

## TIMELINE



- **Late June:** Cascade was awarded the project
- **Summer:** Funding secured and outreach coordinated with EGLE & The Recycling Partnership, and Dow
- **September 16 - October 5:**
  - 71,000 carts delivered citywide in just three weeks
  - A project the city had attempted to complete for several years



## RESULTS



1

### **Blight Reduction**

- Enclosed carts eliminated loose bags
- Reduced neighborhood clutter
- Immediate visual improvement at the curb

2

### **Operational Efficiency**

- Streamlined collection routes
- Reduced manual handling

3

### **Improved Recycling Participation**

- Standardized carts removed participation barriers
- Increased engagement in the single-stream recycling program

4

### **Data-Driven Delivery**

- CartLogic heat mapping ensured accuracy, accountability, and transparency
- Real-time progress, block by block

## WHY CASCADE?



Flint selected Cascade Engineering based on:

- Strong industry reputation
- Proven success delivering large-scale municipal cart rollouts
- A long-standing record of responsive service and support

Cascade's experience gave the city confidence the project could finally move forward—on time and at scale.

## IMPACT



Flint's cart rollout represents a major turning point—transforming a long-standing challenge into a fast, data-driven success. With Cascade Engineering as a partner, the city achieved in weeks what had remained out of reach for years: cleaner neighborhoods, safer collection, and a modernized waste system built for the future.

