

# Maximizing Curb Revenue Through Modern Parking Compliance:

A PLAYBOOK FOR CITY LEADERS



# Table of Contents

---

- 3 About this Playbook**
- 4 Executive Summary**
- 5 The Revenue Challenge—and Hidden Opportunity**
  - 5 | Scale of the Prize
  - 5 | Root Causes of Revenue Leakage
  - 6 | Safety and Equity Lens
- 7 Modern Parking Compliance Platforms: Core Capabilities**
- 8 Revenue-Optimization Playbook (No Extra Citations Required)**
- 9 City Success Stories**
- 10 Building the Business Case**
- 11 Implementation Roadmap (12 Months)**
- 12 Future-Proofing the Curb**
- 13 Why It Matters**
  - 13 | Call to Action
- 14 Appendix**



# About this Playbook

Parking affects every resident, commuter, and merchant in a city. When management and compliance falter, losses stretch far beyond the meter: congested curbs slow commerce, manual enforcement drains staff time, and equity gaps widen. This playbook explains **why** those leakages persist, **how** a modern, dynamic compliance platform closes them, and **what** city leaders can accomplish—starting in the next budget cycle—by connecting pricing, payments, and enforcement data.

## Why Read This Playbook?



### Quantified Upside

Revenue, equity, and safety benefits documented by multiple cities.



### Actionable Insights

Seven field-tested tactics you can deploy with existing staff.



### Future-proof Lens

Open APIs and Curb Data Standards (CDS) safeguard tomorrow's mobility.



# Executive Summary

**Local governments across North America collect approximately \$3 billion in parking revenue each year; however, conservative models suggest that an additional 15% to 20% remains uncollected because payments, pricing, and enforcement data are stored in separate systems (Route Fifty, May 30, 2024).**

A modern, open platform—integrating curb rules, usage, payment channels, and compliance intelligence across vendor solutions through APIs—increases revenue and better manages the curb, while facilitating a fairer rate system and fewer penalties.

Real-time data enables supervisors to manage enforcement productivity effectively. More complete data allows the city to reduce rates to increase usage and raise rates for special events or in areas with exceptional usage. Nudges can increase mobile payment use and enhance compliance without relying on penalties. Modern compliance systems, combined with curb and sidewalk data platforms, support a range of insights into pricing, collections, and usage.

**The City of Vancouver, British Columbia, projects that each single-percentage-point gain in compliance on 12,000 meter spaces yields roughly \$600,000 in annual revenue (UBC Working Paper, 2022).**



# The Revenue Challenge—and Hidden Opportunity

## Scale of the Prize

The national baseline of approximately \$3 billion masks significant city-by-city gaps. Budget simulations indicate \$8 million to \$14 million in annual upside for a mid-sized city by simply extending meter hours and aligning rates to demand (SFGate, February 3, 2025).

Root Causes of Revenue Leakage		
Gap	Real-World Symptom	Platform Solution
 <b>Fragmented data</b>	Finance staff wait weeks for siloed reports, and disputes are hard to audit.	Unified back office with live dashboards and API feeds to the enterprise resource-planning system.
 <b>Static rates</b>	40% of premium curb spaces sit empty during off-peak hours, while double-parking rises.	Rule-based dynamic pricing that nudges rates up or down by \$0.25 to \$1 based on occupancy.
 <b>Low mobile adoption</b>	Up to 22% of parking sessions at metered spaces go unpaid when mobile payment is unavailable.	Geo-targeted reminders, grace-time A/B tests, and a one-tap checkout flow.
 <b>Escalation friction</b>	Scofflaws often ignore mailed collection notices, and towing is a politically contentious issue.	72-hour boot workflow with 24-hour online payment and instant boot release.

## Takeaways

- 
 The core problem is disconnected operations, not deployment of more officers or higher fines.
- 
 Adjusting prices to demand raises yield faster than adding hardware.
- 
 Flexibility in payment and escalation promotes equity while shrinking write-offs.



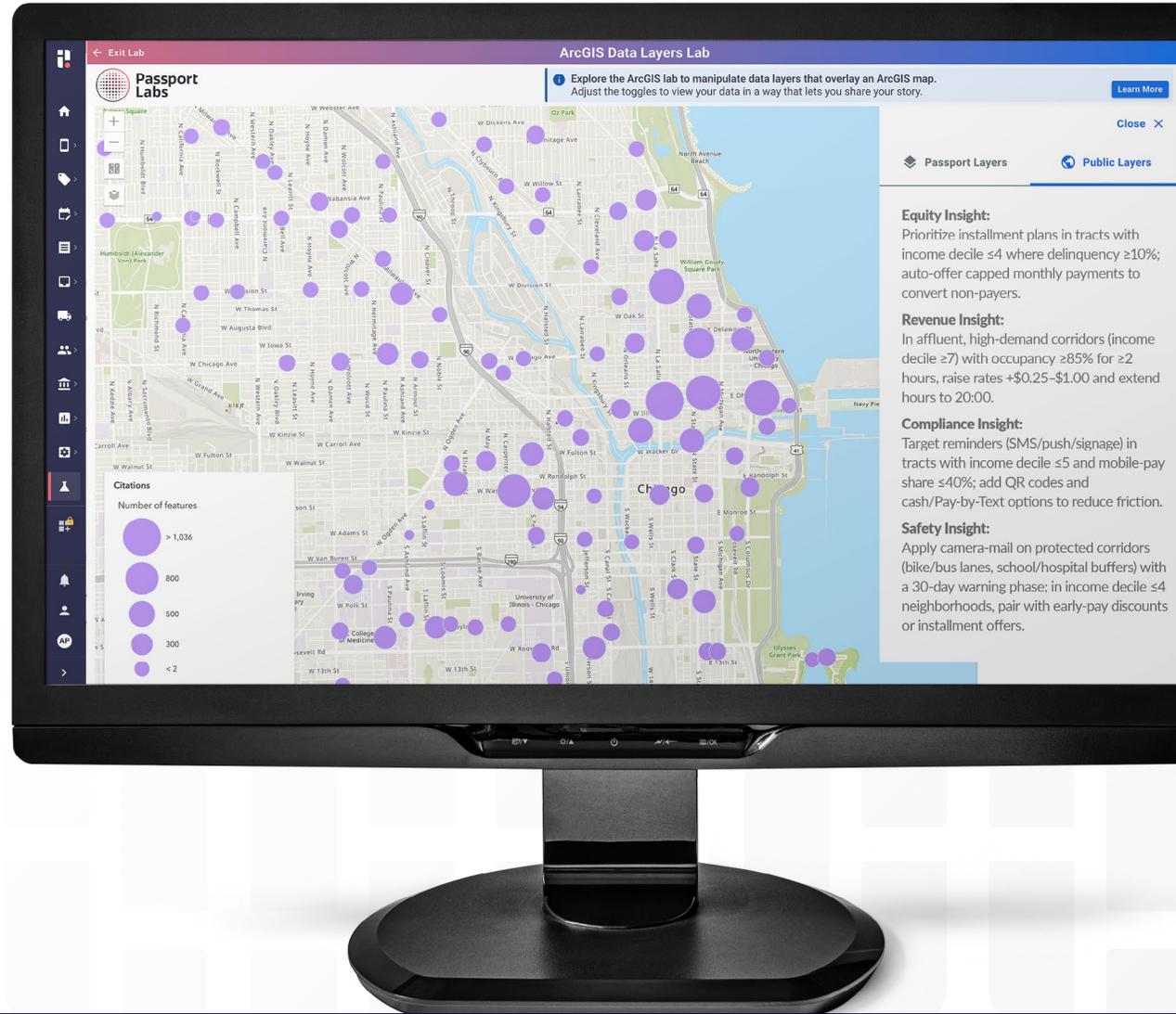
# The Revenue Challenge—and Hidden Opportunity

## Safety and Equity Lens

**Camera-first enforcement** through Chicago's Smart Streets pilot recorded 11,723 warnings and 1,620 paid citations in four months, all without additional officers ([RNRA Chicago, March 23, 2025](#)).

**Income-aware payment plans** using Esri socio-economic overlays and parking transactions let cities tailor rates and installment options. Result: higher revenue yield and better compliance because people can pay.

**Officer safety** improves when parking, bus-lane, and bike-lane obstructions are enforced via photo review instead of face-to-face stops.



# Modern Parking Compliance Platforms: Core Capabilities

## Connected Payments and Enforcement

A single cloud-based platform ingests meter feeds, mobile sessions, LPR hits, and citation status in real time while exposing APIs for finance systems and 311 portals.

## Photo and Mail Ticketing

Off-street proof-of-payment is common today; on-street pilots review images in 90 seconds or less and achieve early-payment rates above 65% (RNRA Chicago, 2025).

## Dynamic Pricing

The City of Austin, TX, implemented mobile pay-only zones in areas surrounding the new Q2 Stadium to dynamically manage rates based on high-demand events, resulting in over \$600,000<sup>1</sup> in incremental revenue generated in those zones.

## Open APIs and Future-Proofing

Compliance data adheres to Open Mobility Foundation standards—specifically, the Curb-Data Specification (CDS) and Mobility Data Specification (MDS)—ensuring that curb sensors, autonomous-vehicle zones, and delivery-bay reservations integrate seamlessly without requiring re-platforming.

## Actionable Insight:

Include Open APIs and curb-data standard (CDS/ MDS) compliance in every request for proposals to prevent future lock-in. (OMF)



<sup>1</sup> Source: Provided by our client, the City of Austin, TX

# Revenue-Optimization Playbook (No Extra Citations Required)

Tactic	Platform Workflow	Revenue Lever	Implementation Tips
 <b>Demand-based rate tuning</b>	Occupancy sensors feed hourly rules.	6% to 10% yield lift	Start with \$0.25 adjustments; publish a rate-change calendar to build trust.
 <b>Targeted mobile reminders</b>	Push messages to blocks with below-average mobile use.	8% more paid sessions	Test a grace-time message versus a \$1 promo code.
 <b>Camera plus mail-in safety zones</b>	30-day warning period followed by a \$90 fine.	90% compliance	Add pavement stencils before enforcement to signal the new rule.
 <b>72-hour boot workflow</b>	Denver boots vehicles with 3 unpaid tickets, each carrying a \$100 fee. (Denver DOTI, updated 2024).	Faster cash, fewer tow expenses	Place a quick-response code on the boot for instant payment and release.
 <b>Income-based installments</b>	The platform assigns monthly amounts according to census income decile.	Lower write-offs, higher collection rate.	Utilize open data to pre-qualify motorists and reduce clerical workload.

**Pro Tip** Set baseline KPIs—compliance percentage, revenue per space, and officer productivity—before launch so benefits are easy to report.

# City Success Stories

## Chicago, Illinois – Smart Streets Camera Pilot

- **Result:** 93% of violators paid within 30 days, and bike-lane blockages fell **30%** in the pilot corridor ([RNRA Chicago, 2025](#)).
- **Lesson:** Pair automated enforcement with a phased warning period to build community support.

## Denver, Colorado – 72-Hour Boot plus Seizure Notice

- **Result:** Online payments reduced average collection time from 28 days to **fewer than 3 days** and **recovered \$3 million in outstanding citation revenue**<sup>2</sup> from its booting program ([Denver DOTI, 2024](#)).
- **Lesson:** A transparent escalation timeline motivates scofflaws to pay before towing becomes necessary.

## Vancouver, British Columbia – Behavioral Signage Nudge

- **Result:** A 5% lift in compliance equates to roughly **\$3 million** in annual revenue at full fleet scale ([UBC Working Paper, 2022](#)).
- **Lesson:** Data-informed tweaks such as sign wording and color can deliver outsized returns.



<sup>2</sup> Source: Provided by our client, the City of Denver, CO

# Building the Business Case

1. **Quantify the Gap** – Export six months of occupancy, citation close-rate, and mobile-payment share.
2. **Model Scenarios** – Forecast revenue at compliance targets of 90%, 95%, and 98%.
3. **Calculate Return** – Modern SaaS platform fees typically equal 10% or less of incremental revenue, well below the cost of a hardware refresh.

**Takeaway:** Finance directors focus on net-new recurring revenue. Parking compliance platforms deliver it within the first fiscal year.



## Equity Lens

Prepare an “ability-to-pay” memo that demonstrates how installment plans reduce delinquency and towing, thereby strengthening the political case for modernization. A Government Finance Officers Association (GFOA) study shows amnesty and tailored payment plans produce more revenue than penalties, which can deter people from paying anything if they cannot afford the full amount.



# Implementation Roadmap (12 Months)



## Action Step

Establish a policy fast-track committee early; several cities cite ordinance delays as the top risk to rollout schedules.

# Future-Proofing the Curb

**Predictive Occupancy** – INRIX delivers hourly curb forecasts, allowing rates and staffing to adjust before congestion develops (INRIX Blog, May 27, 2025).

**Rideshare and Delivery Zones** – Open-API curb pricing enables transportation-network companies to reserve space in advance, generating new fee streams and reducing double-parking.

**Micromobility Citations** – Camera review of scooter misparking yields high compliance with modest fines of \$10 to \$25.

**Takeaway:** Selecting an open platform today unlocks revenue streams tomorrow, from autonomous shuttles to curbside logistics.



About

Summary

Revenue  
Challenge

Compliance  
Platforms

Playbook

City Success  
Stories

Business  
Case

Roadmap

Future-  
Proofing

Why it  
Matters



# Why It Matters

Parking compliance has moved beyond a manual ticket-writing task into a strategic lever for finance, equity, and safer streets. The evidence in this playbook points to one finding: **connecting pricing, payments, and enforcement in a single dynamic platform is the fastest, fairest path to reclaiming revenue that already belongs to the public.**

**Revenue upside is proven.** San Francisco forecasts \$8 million to \$14 million in annual lift after adopting demand-based rates, and Vancouver calculates \$600,000 for every percentage-point gain in compliance across 12,000 spaces.

**Safety improves alongside revenue.** Chicago's camera-mail program eliminated confrontations and cut bike-lane blockages by 30% within 4 months.

**Equity becomes actionable.** Income-aware payment plans and installment options reduce delinquency without aggressive collections or towing. Denver, CO, recovered \$350,000 in citation revenue due to an increase in the successful implementation of payment plans in the previous two years.

**Operations gain clarity.** Real-time dashboards replace week-old spreadsheets, giving finance and council a shared view of performance.

**Future revenue streams stay within reach.** Open APIs position the same platform to price curb access for rideshare, delivery, and autonomous vehicles as markets mature.

## Call to Action

1. **Audit** existing curb-data and establish a baseline.
2. **Pilot** a demand-based pricing zone and an equity-priority neighborhood within the next quarter.
3. **Codify** camera authority, boot timelines, and installment policies to support automation.
4. **Procure** an open-platform vendor whose APIs and curb-data standards align with long-term mobility goals.
5. **Iterate** through monthly optimization loops so that compliance, revenue, and public satisfaction improve together.

A modern parking compliance platform turns scattered curb assets into a coherent, revenue-positive system in fewer than 12 months. Each day of delay leaves money uncollected, streets under-managed, and constituents underserved. The tools are available—cities only need to connect them.



# Appendix – Source List

---

1. Route Fifty – “To drive revenue, cities turn to tech to fix their parking problems,” May 30, 2024. <https://www.route-fifty.com/emerging-tech/2024/05/drive-revenue-cities-turn-tech-fix-their-parking-problems/396996/>
2. UBC Working Paper – “I Saw the Sign! Using Behaviourally-Informed Signs to Encourage Parking Compliance,” 2022. <https://blogs.ubc.ca/biwiki/files/2022/08/UBC-DIBS-2022-CBI-03-Pay-Parking-Signs.pdf>
3. SFGate – “Money crunch pushes SF transit to eye major parking changes,” February 3, 2025. <https://www.sfgate.com/local/article/money-crunch-push-sf-transit-major-parking-change-20113851.php>
4. RNRA Chicago – “Smart Streets Pilot Update,” March 23, 2025. <https://rnrachicago.org/chicago-smart-streets-pilot-update/>
5. City and County of Denver – “Tickets and Towing” web page, updated 2024. <https://www.denvergov.org/Vehicles-Parking/Parking/Tickets-and-Towing>
6. INRIX Blog – “Introducing On-Street Occupancy Predictions,” May 27, 2025. <https://inrix.com/blog/introducing-new-on-street-occupancy-predictions-for-curb-analytics/>

