



CITY of DALLAS: On-Street Parking Implementing New Parking Tools

“Parking reform is such a terrific opportunity for improving city life... It's something quite small that can be done on a single block; it's very incremental. All the data is there. You just need to open your eyes.”

Jeff Speck, renowned urban planner and author of the book, “Walkable Cities.

WHAT is it?

Public Amenity:

Is parking a resource, convenience, facility or benefit continuously offered to general public with or without charge

Public Service:

1: supplying a commodity or service to any or all community members

2: service rendered in the public interest

Public Parking:

Off street area or right of way owned by the municipality where vehicles may be temporarily parked with or without charge

Why is it Important?

- Impacts look and feel of the city and neighborhoods
- Affects traffic congestion
- Everyone pays for parking- costs associated with land use and neighborhoods
- Economic Development Costs
- Transportation costs
- Environmental sustainability costs
- Direct Costs

Management Strategies:

Payment Technology

Operations Technology

Parking Database

Real-Time Information

Explored in Pilot

Parking Data – (Real-Time Information)

Sensors

Multi-space Meters

Single-Space Meters

PaybyPhone

Parking Apps

Branding

Parking Related Services – (Car Share)

Aesthetics & Function

Not Explored in Pilot

Mechanical/Automated Solutions

Guidance System

Active sensing technologies

Access control

E-payment

Wayfinding

Parking Controls and Best Practices :

Transit/TOD Policies

Requirements

Pricing

Management Strategies

Benefit Districts

Finance

Parking Strategic Planning



Parking Management Area	Downtown Dallas 360 21st Century Strategic Parking Plan	City of Dallas Parking Management
Availability		
Additional on-street parking/ periphery of downtown	[Redacted]	Future Growth
Surplus in parking/Parking available in wrong locations		Future Growth
Private parking restricted from public use - (shared use parking)		
Customer Service		
Multiple parking payment options	[Redacted]	Available Now
Parking ambassador, customer friendly event		
Implement web-based citation management and payment		Available Now
Economic Development Strategy		
Parking facility guidelines and promote future parking needs	[Redacted]	
Green parking - solar meters		Limited Use
Green parking - Transition old meter poles to bike racks		Available Now
Reinvest parking revenues into parking services		Limited Use
Pockets of public parking to promote adaptive		
reuse and in-fill development & historic building preservation(context sensitive design)		
Information		
Better way finding/branding - unified parking signage	[Redacted]	Future Growth
Change downtown parking perception		Future Growth
Technology to promote parking- variable signage & real time space data		Planned
Educate patrons - safe parking		Future Growth
Reduced signage		Planned
Advertise the public parking system		Planned
Develop an Annual Parking Report		Future Growth
Integrate parking data into the city's GIS data		Limited Use
Parking Enforcement		
Parking enforcement technology-invest in mobile License Plate Reader	[Redacted]	Limited Use
Centralized parking control center		
First ticket forgiveness		

Parking Strategic Planning

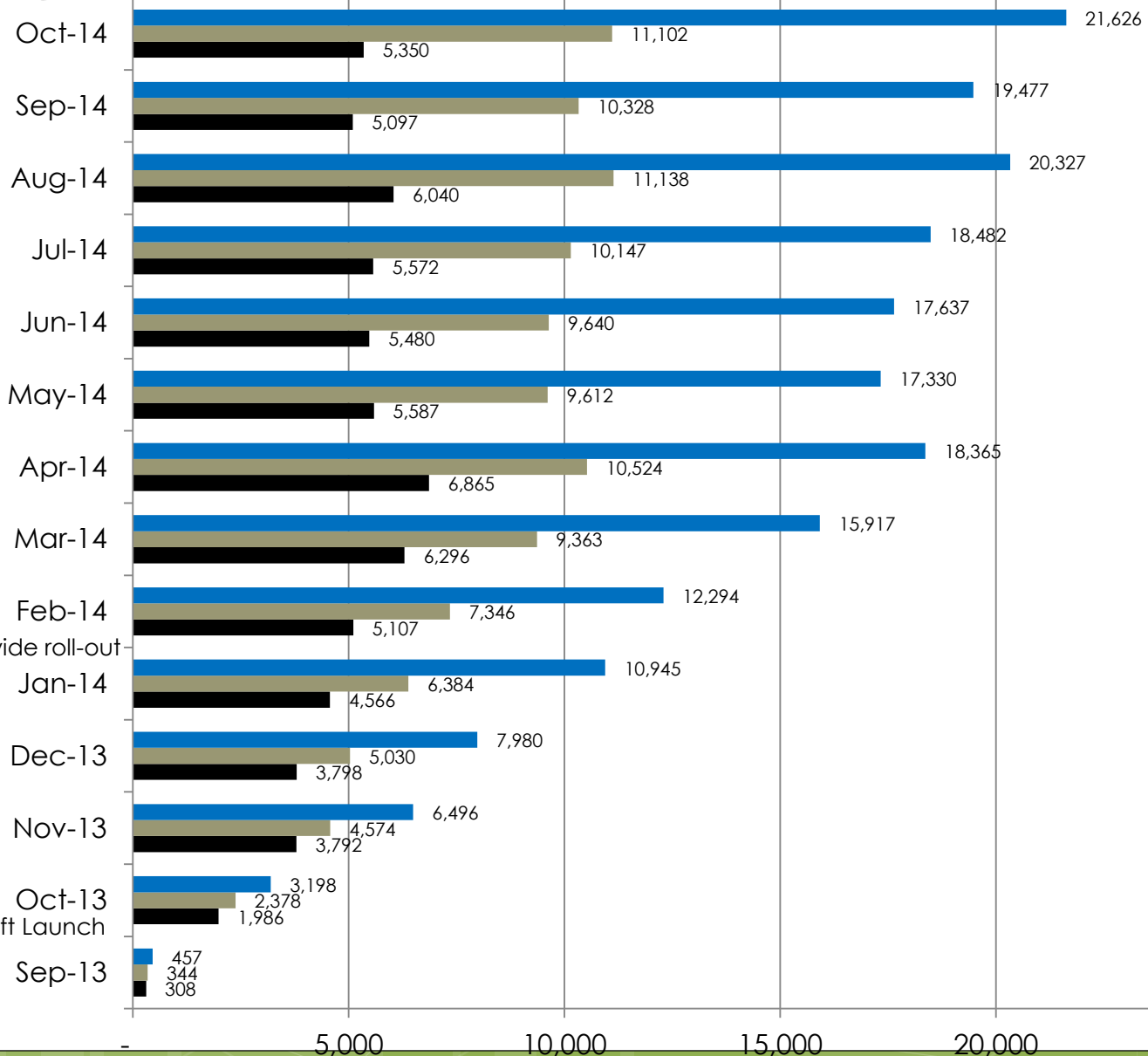


Parking Management Area	Downtown Dallas 360 21st Century Strategic Parking Plan	City of Dallas Parking Management		
Parking Operations				
<ul style="list-style-type: none"> Real time enforcement optimization Utilize best practices for parking management Utilize parking data to improve operational efficiency Management audit of parking citation collections and processing times Develop and track parking management benchmarks 		<ul style="list-style-type: none"> Limited Use Current Practice Current Practice Limited Use Limited Use 		
Parking Technology				
<ul style="list-style-type: none"> Modernize meter technology: multi space and credit card enabled Pay-By-Phone and wireless sensor technology Reduce operation cost: identify leaks in ticketing and payments Be a leader in smart parking technologies/next generation parking RFP for Comprehensive On-street Parking Program 			<ul style="list-style-type: none"> In progress Final Stage In progress Planned Initial Stage 	
Policy				
<ul style="list-style-type: none"> Reassess parking fines/booting/towing/multiple tickets/time limits Reduce restrictions for on-street parking (for residential use) Retail parking strategy Parking facility standards Stronger comprehensive public parking program Promote actual supply/demand parking 				<ul style="list-style-type: none"> Future Growth Planning Stage Future Growth
Rates				
<ul style="list-style-type: none"> Reassess pricing/ Dynamic Pricing Special event parking too high Free weekend parking First hour free in public parking lots 				<ul style="list-style-type: none"> Future Growth
Valet				
<ul style="list-style-type: none"> Valet parking top priority Consistent valet parking standards Valet parking ordinance changes Create valet nodes Valet partnerships with private garages to increase valet supply 		<ul style="list-style-type: none"> Planning Stage Planning Stage 		

PaybyPhone

Growth

September 2013 to October 2014



- Transactions
- Unique users
- New users

Total
September 2013 thru
October 2014

Transactions	New users
190,531	65,844

Total
September 2013 thru
October 2013

Transactions	New users
3655	2294

Total
September 2014 thru
August 2014

Transactions	New users
41,103	10447

The International Parking Institutes' 2013 Emerging Trends in Parking Survey determined:

The United States is in a parking revolution as sweeping changes are made due to new technologies that make it easier for people to:

- find and pay for parking, and
- for parking authorities to manage it.

Why Parking Pilots

**Identify Best Technology
and Solutions**

**Evaluate How Technology
Works**

**Meet Parking Program
Goals**

Identify Best Technology and Solutions

Clarify What Technology Options are Available:

- Parking Technology is rapidly changing
- The new technology built to fit client and end-user needs
- End-users expect parking to be a service- What would parking look like if it was run by Nordstrom's?
- Parking is a portion of a concept BMW has coined as “personal mobility”

City of Dallas Current Parking Technology



Basic Meter

- Coin and Pay-by-Phone
- 4, 200 Coin Meters Approx.



IPS Meters

- Coin, cash, credit card & Pay-by-Phone
- 100 Meters Approx.



Multi-space Meters

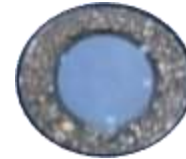
- Coin, cash, credit card & Pay-by-Phone
- Located at Klyde Warren Park Service Road and Main Street Garden



Pay-By-Phone

- Credit card
- All Meters and Parking Lots

Examples of Available Parking Technology



Sensor Technology



Parking Data Applications



Electronic Parking Guidance Systems



Near Field Communication (NFC) technology

Smart Parking Systems

Trend to real time information, big data analytics, and integrated systems:

- Intelligent Transportation Systems(ITS)
- Complete Streets
- Smart Technology (On-street/ in-vehicle/ mobile apps)

Pilots and Programs to Watch

- SF Park (San Francisco)
- Express Park (Los Angeles)
- Seattle
- Mobility Transformation Facility (University of Michigan)

Current and Future Parking Trends

- Integrated Parking Management Systems – meter to management
- Car Share/Ride Share
- Multi-use spaces
- Autonomous Vehicles (sensing/integrated)
- Connected Cities

“We are on the cusp of a transformation of mobility on a scale we haven’t seen since the introduction of the automobile a century ago.”

Peter Sweatman - Director, U-M Mobility Transformation Center

Meet Parking Program Goals

Parking is at a turning point for technology, services, revenue impacts, and economic partnerships.

Dallas Parking Goals:

- Improved Customer Service
- Enhanced Operational Efficiency
- Better Revenue Management

Guiding Principles for Parking Services:

- Provide safe public parking
- Adequate availability of parking (85% occupancy rate)
- Provide accessible public parking
- Use technology/parking practices for effective parking management
- Create aesthetically pleasing and functional parking
- Generate revenue to support public parking

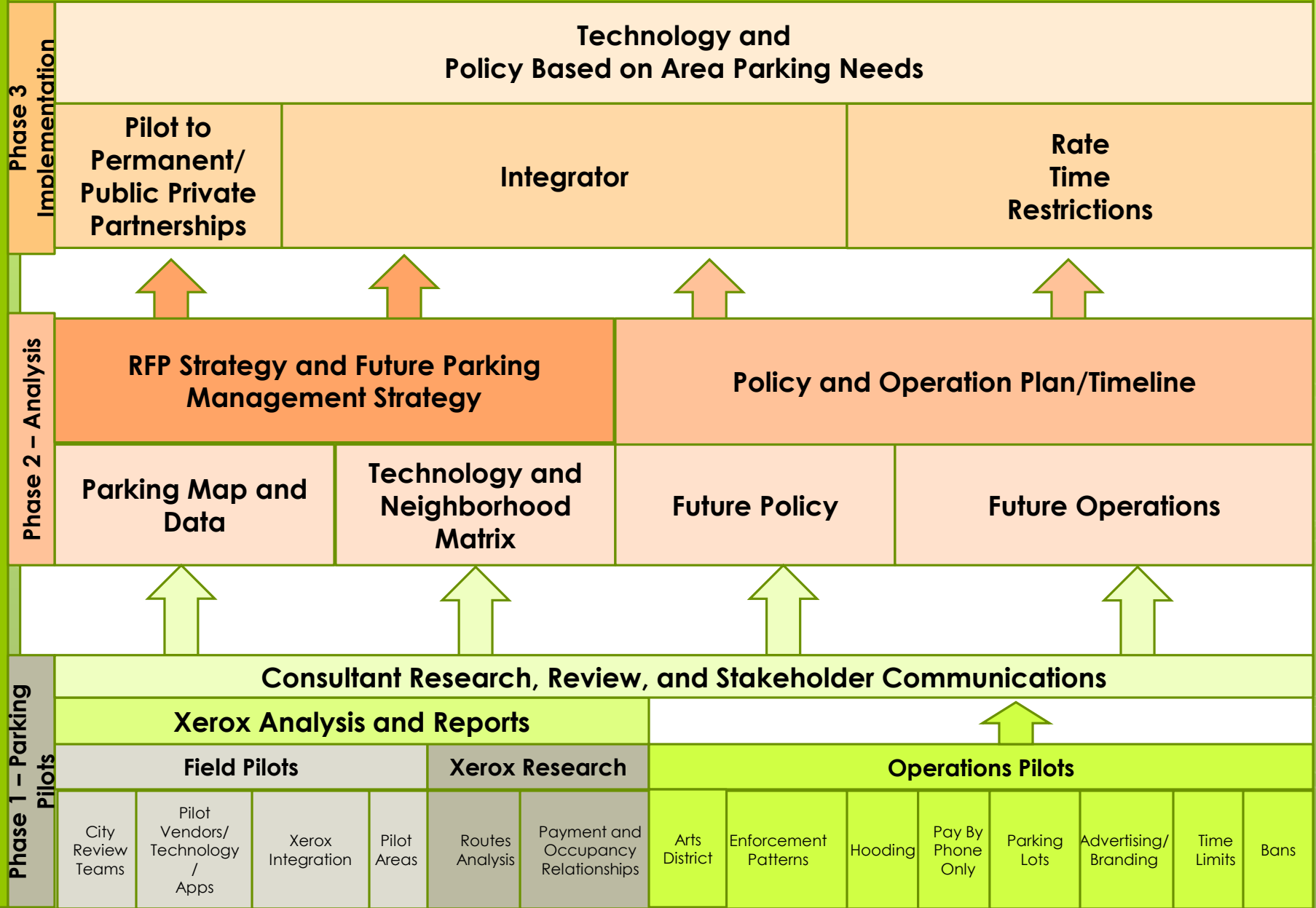
Avoid Failure

- Why Park, if it is a hassle? Parking Impacts trip decision process:
 - Decision to park: Do I want to drive and park?
 - Search for Parking: Will there be parking spaces?
 - Understanding signage: Can I find the parking?
 - Paying for Parking: How much will it cost and do I have change?
 - End Trip: Do I need to leave early because my parking time/money has ended?
- Negative publicity inhibits future parking changes
 - Chicago Upfront payment contract
 - Indianapolis/Cincinnati revenue expectations

Guide the RFP Process (Consultant & Pilot Program)

- Type of Parking Services:
 - Turnkey Parking Management Services
 - Integrator for back-end office operations and reporting
- How Technology is picked:
 - Contractor's selected/preferred vendors
 - Open forum vendors with forced back-end integrations
- Parking model or hybrid model for pricing plans/technology/policy/services
- Create Technology road map for selected technology, future technology, and implementation
- Smart RFP to increase data and consumer options

Modernization



**Vision
Plan
People**

Parking North Texas

