

Strengthen Orlando

Parking Division On-Street Parking Meter Modernization 2014-2015



Why Metered Parking?

To assist in the growth and attractiveness of Downtown Orlando by providing more attainable and convenient parking for the Downtown visitor.

- Meeting Demand
- Turnover of spaces helps businesses
- Revenue
- Short and long term solutions



Smart Meters

IPS Group, Inc. has been chosen as the meter supplier through RFP issued by the City's Procurement and Contracts Division

- San Diego-based IPS Group, Inc. is a design, engineering and manufacturing company focused on low-power wireless telecommunications and parking technologies.
- Manufactures domestically in San Diego, CA and has been delivering world-class solutions for over 20 years.



The Smart Meter



- **Payment Options**
- **Solar Powered**
- **Security**
- **Web-Based Management System**
- **Identification of Meter Malfunctions**
- **Installation**

Installation Demonstration



Pay-By Phone

IPS Group, Inc has partnered with the pay-by-cell provider, Parkmobile to bring a mobile payment option to the City's patrons.

HOW IT WORKS

1. Look for the Parkmobile sign or sticker.
2. Complete the short registration process on your smart phone or via toll-free phone number. Once registered, you simply enter in the zone and meter number listed on the sign to start a parking session.
3. ***That's it!*** And just to make life easier, you can opt-in to receive a notification 15 minutes before your parking session is set to expire.



Parking Guidance System

IPS Group, Inc has partnered with ParkMe, Inc. to offer a web-based application allowing patrons to locate available on-street parking for the most highly utilized parking spaces in the Downtown core area.

HOW IT WORKS

1. In-ground vehicle detection sensors communicate to ParkMe to indicate if a space is occupied or vacant.
2. Patrons use the web-based app to locate available on-street parking spaces. The application identifies available spaces, cost and maximum stay.
3. ***Parking is faster, easier and more convenient!***





Vehicle Detection Sensors

Vehicle detection sensors provide a reliable detection system for the presence or absence of a vehicle in a parking space.

MAIN FUNCTIONS:

1. Provides real-time occupancy
2. Provides data on parking occupancy, length of stay, payment information, areas of high demand, and additional reporting
3. Reduces traffic congestion of vehicles looking for available parking spaces
4. Tool used to facilitate increased turnover of parking spaces, making more on-street parking available
5. Provides qualitative data on parking trends for future parking policy and regulation adjustments



Data Management System

The data management system is a web based management tool that provides reporting capabilities for the meters. It utilizes wireless technology to allow meters and sensors to communicate and transfers data to the centralized management system.

ALLOWS FOR:

- Review of maintenance
- Review of revenue and collections of a single meter, area, zone or entire parking network
- Changing of meter display messages during special events, holidays
- Changing of meter rates of individual meters or groups of meters



Becoming a Smart City

Parking Modernization allows us to use technology as a tool to help manage the public resource of parking more efficiently as Downtown Orlando continues to thrive and grow.

- Industry standards for on-street parking
- Walter P. Moore Parking Study
- Revenue
- Enforcement



Data-Based Modifications

The new system will allow for data-based policy modifications in order to ensure parking is more closely aligned with true utilization, to spur higher turnover at on-street parking spaces and to help promote parking availability for patrons of area businesses.

- Reduces number of drivers driving around the block looking for parking spaces
- Decreases traffic congestion
- Lessens motor vehicle impact on air quality
- Archiving of data for predicting future needs

Project Cost

Item	Quantity	Cost per item	Total
Smart Meters	1100	\$457.50	\$503,250
Vehicle Detection Sensors	562	\$250	\$140,500
Sensor Installation	562	\$25	\$14,050
Park Me Guidance System	1	\$8,750	\$8,750
Total Cost*			\$666,550

*This project will be paid for with dedicated funds from the **Repair & Replacement account program 409**. No operating funds will be used. Parking industry surveys show that this type of project increases revenue by a minimum of 15 to 20 percent.

Estimated project completion date - 1/15/2015.

Estimated Annual Savings

Current Meters	Annual Hours	After Modernization	Annual Hours	Cost Savings
Collections 4 times weekly (x52 weeks)	2,340	As needed	936	\$42,120.00
Physically monitored	208	Computer monitored	0	\$6,240.00
Needed repairs	520	Reduced coin usage; less jams	104	\$12,480.00
Answer Complaints	520	Complaints reduced 55%	104	\$12,480.00
Preventive Maintenance	780	Solar Powered	520	\$7,800.00
Batteries / Repair parts /Fuel \$7000		Solar / Parts \$2500		\$4,500.00
		Total Annual Savings		\$85,620.00

The background features a stylized illustration of a parking meter on the left and a circular sign with the word 'Hello!' on the right. The scene is set against a light blue sky with white clouds and a grey silhouette of a city skyline at the bottom.

STRENGTHEN ORLANDO PARKING MODERNIZATION COMPARATIVES

Modernization Comparison

Completion of the Parking Meter Modernization will bring us on par with other world class cities such as:

- Austin
- San Diego
- San Francisco
- Santa Monica
- Washington D.C.

This is the beginning step to move toward our vision of an integrated real time parking and travel time integration and will open the gateway to the ITS Project.

Future Innovation

- Real-Time Off-Street Parking availability for travelers
- Progressive All-Day Pricing
- Dynamic Demand/Value Pricing
- Smartphone apps for optimizing both travel time and parking availability
- Additional static and dynamic wayfinding signage

Vision for Travel Time and Parking Information Integration

Real-Time Parking Information

(Locations, Availability, Cost)

+

Travel Time

(Current Information, Historical Information)

+

Alternate Routes/Detour Information

+

Transit Information

(Schedule, On-Time Performance, Cost)

=

Informed Choices for Commuters

Questions ?



**Thank you
for your time.**

