CITY OF
FORT LAUDERDALE

All-America City

Memorandum

Memorandum No: 15-246

Date: December 16, 2015

To: Honorable Mayor and Commissioners

From: Lee R. Feldman, ICMA-CM, City Manager

Re: *Press Play Fort Lauderdale: Our City, Our Strategic Plan 2018*
Infrastructure Goals Progress Report

I am pleased to present the annual progress report for the Infrastructure Cylinder of Excellence. This report is an important element of Resolution 13-178, which outlines our strategic management system. While last year we provided you with a comprehensive progress report for *Press Play Fort Lauderdale*, this year we will be providing you with bi-monthly progress reports that focus on a single Cylinder of Excellence. We will continue to provide you with quarterly reports on progress with the Commission Annual Action Plan initiatives.

The Infrastructure Cylinder of Excellence incorporates Goals 1 and 2 of *Press Play Fort Lauderdale*, focusing on our transportation and mobility efforts, as well as our infrastructure systems and sustainability innovations. The progress report is organized by goal and highlights progress with performance measures and initiatives that were selected from each.

I would like to thank the City Commission for their continued leadership in providing direction for these items, and all staff for the work they do every day to build community.

Attachments: Exhibit 1: Infrastructure Progress Report

C: Stanley D. Hawthorne, Assistant City Manager
Phil Thornburg, Interim Assistant City Manager
Cynthia A. Everett, City Attorney
Jeffrey A. Modarelli, City Clerk
John C. Herbst, City Auditor
Department Directors
CMO Managers
Community Building Leadership Team (CBLT)

INFRASTRUCTURE

GOAL 1 Be a pedestrian friendly, multi-modal City.

Objective 1: Improve transportation options and reduce congestion by working with agency partners.

Objective 2: Integrate transportation land use and planning to create a walkable and bikeable community.

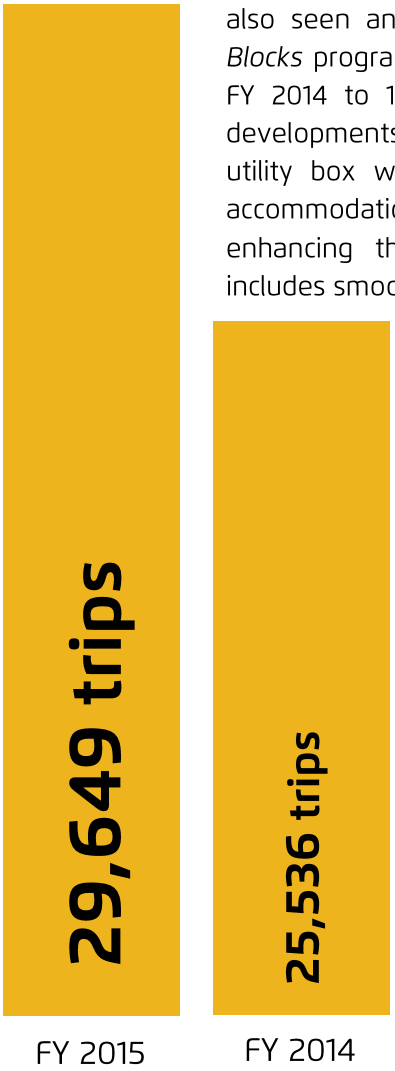
Objective 3: Improve pedestrian, bicyclist, and vehicular safety.

Transportation and Mobility's Open Streets Fort Lauderdale 2015. #OpenStreetsFTL

B-CYCLE TRIPS FROM FORT LAUDERDALE STATIONS

Source: Broward B-Cycle

Neighbors are using B-Cycle, with **the number of trips increasing by 16% from FY 2014 to FY 2015**. The City has also seen an increase in the number of *Connecting the Blocks* program projects completed, which went from 8 in FY 2014 to 12 in FY 2015. These projects include new developments such as bike facilities, sidewalk projects, utility box wraps, and new or improved transit shelter accommodations. All of these projects are aimed at enhancing the pedestrian and bike experience, which includes smoother travel, way-finding, and safety-in-design.



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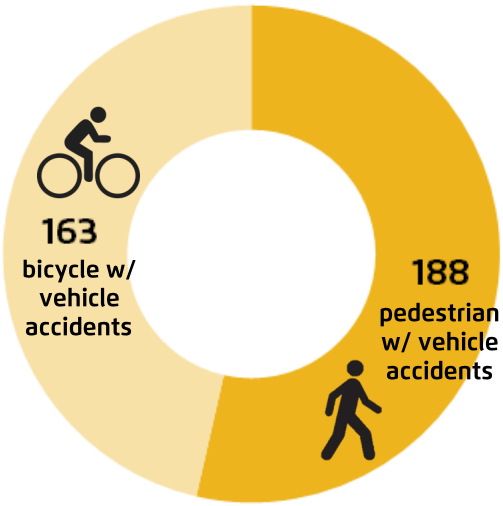
Fort Lauderdale Walk Score—FY 2015

Source: www.walkscore.com

NUMBER OF VEHICULAR ACCIDENTS INVOLVING PEDESTRIANS AND BICYCLISTS - 2014

Source: Florida Department of Highway Safety and Motor Vehicles

The number of vehicle accidents involving pedestrians and bicyclists has **decreased from 2013 to 2014 by 7.8% for pedestrians and 6.8% for bicyclists**. The City Commission adopted the **Vision Zero Plan** as an internationally recognized, comprehensive approach which looks at all the factors that impact the levels of safety on streets. The goal of the plan is to increase the levels of safety for pedestrians and bicyclists in the City through the aspects of Engineering, Enforcement, Encouragement, Education, and Evaluation resulting in zero deaths or serious injuries.



MOBILITY PROJECT HIGHLIGHT

In FY 2015, approximately $8 million was leveraged from partners through development projects for citywide multi-modal transportation improvements. The City's partners include the development community, Broward B-Cycle, and other agency partners, including the Broward MPO, Broward County, and the Florida Department of Transportation.

Improvements that have taken place or are planned to take place utilizing the leveraged funding include 642,306 square feet of sidewalks, one bike share facility (a B-Cycle station at the Manors on Federal Highway), 21 bike racks, and a contribution of $47,000 for multi-modal improvements in the Tarpon River neighborhood. The Tarpon River neighborhood is establishing a mobility master plan, where they will prioritize improvement recommendations, which will be funded by this contribution.

MOBILITY PROJECT HIGHLIGHT

Sharrows, or green pavement markings with a white bicycle and double arrows, have popped up on a number of streets throughout the City. A new alternative bike route, Sharrows allow for both bicyclist and motorists to use the full lane as they navigate their journey through Fort Lauderdale. They are used to inform both bicyclists and motorists that they are sharing the road, identify preferred bicycle routes along low-speed, low-volume streets, and provide alternative routes around construction areas.

This new signage addresses one of the top priorities identified by our neighbors in the City's 2014 Neighbor Survey, which is "safety of biking," and are just one tool that the Transportation and Mobility Department is using to help educate people about safely sharing streets. To accomplish this project, City staff worked closely with our neighbors and the Florida Department of Transportation (FDOT) to successfully negotiate the installation of these new bike amenities into their US1 Improvements Project through the Victoria Park and Lake Ridge neighborhoods.

HOW NEIGHBORS COMMUTED TO WORK IN 2014

Source: American Community Survey

Drove Alone

Walked or Biked

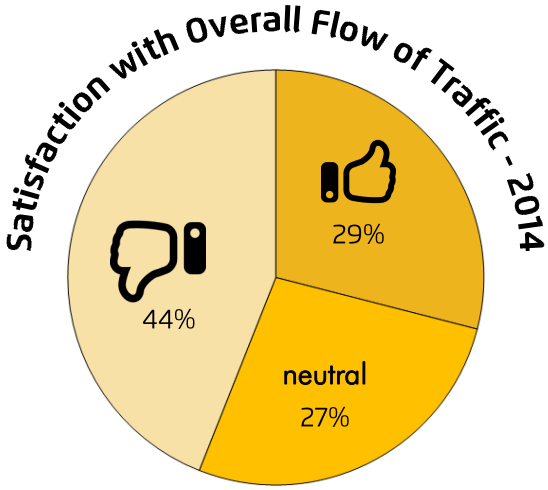
3.2%

Public Transportation

5.1%

The overall flow of traffic has been identified as a top priority since the first year of the City's Annual Neighbor Survey in 2012. Satisfactions levels for the overall flow of traffic have decreased by 10% from the 2012 satisfaction level of 39%. As satisfaction levels with the overall flow of traffic have decreased, the number of neighbors that drive alone to work has steadily increased, with 2014 levels at 74.7% of commuters, compared to 2013 levels of 73.3%, and 2012 levels of 68.2%.

Over the course of FY 2015, 45 new transportation options, which include multi-modal transportation improvements that provide transit, bicycle, and pedestrian amenities and facilities, were approved through the Development Review Committee (DRC) process. **Additionally, the City Commission continues to prioritize transportation projects through the Commission Annual Action Plan (CAAP). FY 2016 transportation CAAP projects include the Beach Traffic Management Plan and the 17th Street Mobility Plan**.



Source: 2014 Neighbor Survey

INFRASTRUCTURE

GOAL 2 Be a sustainable and resilient community.

Objective 1: Proactively maintain our water, wastewater, road, and bridge infrastructure.

Objective 2: Reduce flooding and adapt to sea level rise.

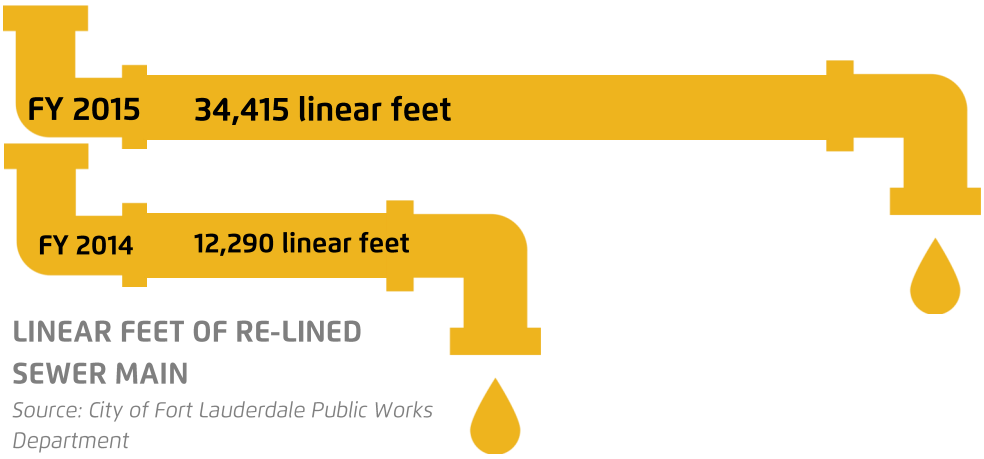
Objective 3: Improve climate change resiliency by incorporating local, regional, and mega-regional plans.

Objective 4: Reduce solid waste disposal and increase recycling.

Objective 5: Improve air and water quality and our natural environment.

Objective 6: Secure our community's water supply.

Utilities crews repairing a broken water main on State Road A1A. #FL2STAT



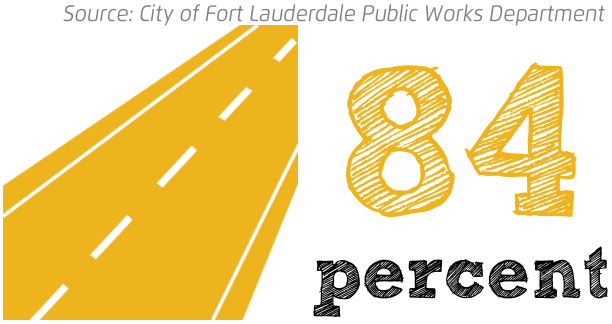
LINEAR FEET OF RE-LINED SEWER MAIN

Source: City of Fort Lauderdale Public Works Department

In FY 2015, **the City Commission prioritized wastewater infiltration and inflow improvements**. Due to the age of the City's existing wastewater collection system, the system experiences high infiltration and inflow (I & I), which leads to high wear and tear on pump station and treatment equipment, increased chemical consumption, additional maintenance, and increased energy usage. I & I improvements were identified as the most cost effective means of increasing wastewater treatment disposal capacity. **Over the past fiscal year, the linear feet of re-lined sewer main more than doubled, going from 12,290 linear feet in FY 2014 to 34,415 linear feet in FY 2015.**

PERCENT OF CITY ROADWAYS WITH AN AVERAGE PAVEMENT CONDITION INDEX OF 70 OR ABOVE

Source: City of Fort Lauderdale Public Works Department



In an effort to proactively maintain road infrastructure, the City has assessed the pavement condition of all roadways through a Pavement Condition Index (PCI). Roadways with a PCI of 70 or above are said to be in satisfactory or good condition. Based on the amount of micro-surfacing completed in FY 2015, City staff estimates that the overall PCI has improved to 84%. **With projected improvements of 10 miles of micro-surfacing, and 10 miles of asphalt and milling in FY 2016, it is estimated that 87% of the City's 525 miles of roadways will be rated above a PCI of 70 at the end of next fiscal year**.

INFRASTRUCTURE PROJECT HIGHLIGHT

A Comprehensive Canal Dredging Master Plan was prioritized by the City Commission in the FY 2015 Commission Annual Action Plan (CAAP). Having a canal system that meets the City's depth standards results in maintaining safe navigation for vessels, allows for stormwater flow, supports the City's marine industry, and encourages unpolluted waterways.

Over the course of FY 2015, the Public Works Department performed a comprehensive analysis of the City's dredging needs. Work included surveying 51 miles of canals (78% of city-owned canals), with an estimated 10 miles of canals identified as requiring immediate dredging needs. The remaining canals will be assessed by the end of the year, using budgetary savings from FY 2015.

City staff presented the master plan to the City Commission on November 17, 2015. Next steps for implementation of the master plan include determining and implementing a funding method, collecting funding, and then moving forward with dredging.

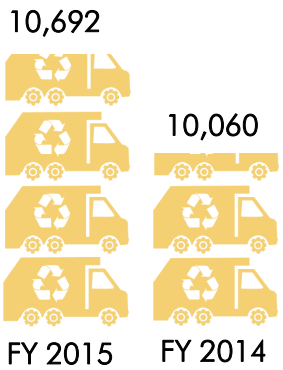
SUSTAINABILITY PROJECT HIGHLIGHT

The City of Fort Lauderdale is transforming public parking lots throughout the City to make them more inviting and sustainable. Specific projects completed in FY 2015 included the installation of a solar reflective seal coating, and electric vehicle charging stations. These enhancements place Fort Lauderdale on the leading edge when it comes to green parking practices. Specifically, the solar reflective seal coating project exhibits a number of environmental benefits, such as increasing solar reflexivity of the parking surface by 40%, decreasing the cycle of recoating, and rejuvenating and extending the life of the asphalt. All in all, nine public parking lots received the solar reflective coating in FY 2015, at a total cost of $1.1 million.

An additional enhancement to public parking lots included the installation of seven electric vehicle charging stations. The electric vehicle charging stations are just one tool being used by the department to promote the use of environmentally friendly cars and accommodate the use of different types of vehicles.

RECYCLING MATERIALS DIVERTED FROM DISPOSAL IN TONS

Source: City of Fort Lauderdale Public Works Department



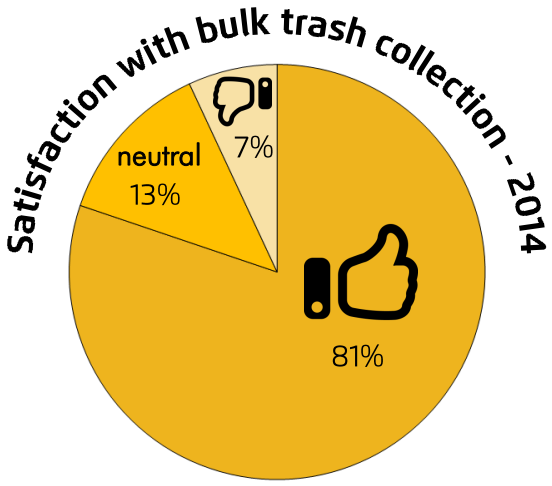
The City has seen **an increase of 6% in the tons of recycling materials diverted from disposal from FY 2014.** Additionally, the tons of yard waste collected has increased by 10% from FY 2014 to FY 2015, and the tons of refuse collected has decreased by 2% over that same time period. This all contributes to a reduced impact on landfills as appropriate disposal protects the environment, and helps keep the City clean.

And Fort Lauderdale neighbors agree! In the 2014 Neighbor Survey, 74% of neighbors agree that single stream recycle has reduced their household solid waste disposal. Furthermore, 80% of neighbors indicated satisfaction with both residential garbage collection and recycling services. **Bulky item pick-up/ removal services, completed by the City's very own Parks and Recreation crews, has a 2014 Neighbor Survey satisfaction level of 81%, greatly exceeding state and national benchmarks, which fall at 60% and 58%, respectively!**

PREVENTION OF FLOODING

Source: 2014 Neighbor Survey

In the 2014 Neighbor Survey, 52% of neighbors agreed that they have observed increased flooding. 38% of neighbors indicated satisfaction with the City's efforts to prevent tidal-related flooding, and 31% indicated satisfaction with the prevention of storm water-related flooding. This is an increase from 2013 satisfaction levels by 6% and 4%, respectively. **Stormwater and drainage improvements are one of the top three most important capital improvement projects for the City. To that end, the City Commission has prioritized the Stormwater Management Plan in their Commission Annual Action Plan since FY 2013**. Additionally, the City approved the use of Adaptation Action Areas to fight rising seas and coastal flooding, becoming a leader in this effort and a model for other communities in South Florida.



Source: 2014 Neighbor Survey