INFRASTRUCTURE CROSS DEPARTMENTAL TEAM

Growing Our Infrastructure for Today and Tomorrow



Team Members



Keith Clinkscale Marcela C. Millett Director Sr. Analyst Strategic Planning and Performance Management



Clinton Forbes Director

Christian Londono Manager of Performance Management



Jackie Binns Property and Casualty

Gary Sypek Senior Deputy Director **Airports**



FD&O

Mary Brodbeck Office Manager **Traffic Division**



David Ricks Director **Engineering & Public Works**



Megan Houston Director Office of Resilience



Ali Bayat Director Water Utilities Dept.



Levi McCollum Director Palm Tran Transit Planning

Palm Tran



Isami Ayala-Collazo Director Facilities Development & **Operations**



Director



Motasem Al-Turk Traffic Division



Environmental Analyst Office of Resilience

County Water

Resources Manager









Manager **Information Systems Services**



Ruth C. Moguillansky **Principal Planner**

Community Revitalization

Daniel Duenas Planner I Parks & Recreation



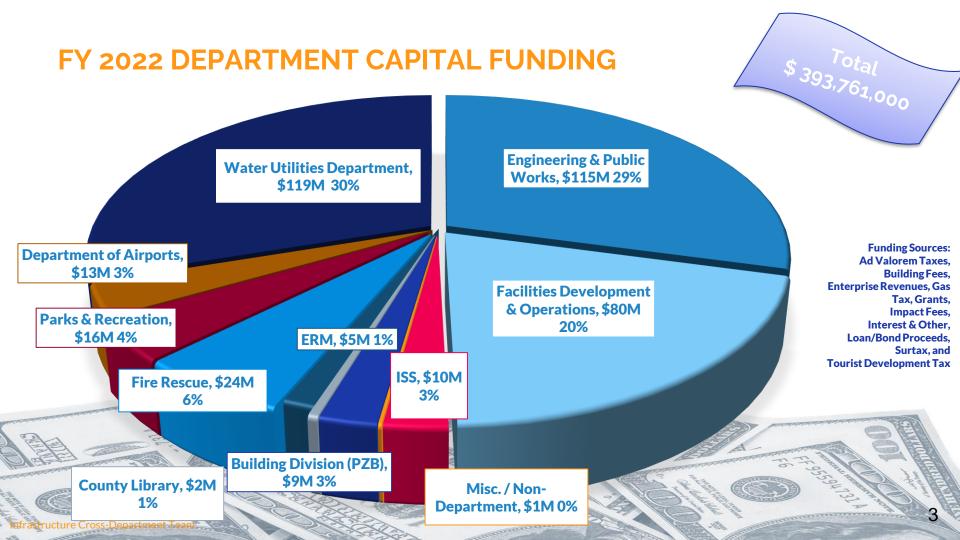
Jean Matthews Senior Planner Parks & Recreation











Strategic Priority: Infrastructure

"To provide the needed structures, systems and services that establish the foundation required to enhance the quality of life of every resident."

Infrastructure Goals:

- 1. Increase resiliency and sustainability of infrastructure.
- 2. Continue to preserve existing infrastructure and deliver new infrastructure that conforms to the latest industry standards.
- 3. Create safe, healthy, and attractive neighborhoods and communities.
- 4. Increase multimodal travel opportunities with safe and efficient transportation services.



Goal 1

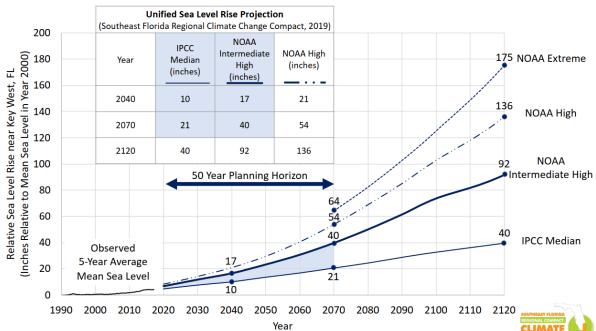
Increase resiliency and sustainability of infrastructure.

Metric: Seek Funding for Resilient Infrastructure Projects

- County was selected to receive CDBG-MIT funds:
 - \$2.8M for Pahokee Wastewater Treatment Facility Improvements
 - \$800k for a Vulnerability Assessment and Resilience Action Plan
 - \$14M applied for 2nd round, joint WUD/Belle
 Glade project
 - \$7.2M applied for 2nd round, Engineering, Prosperity Farms bridge
- Departments cooperating on applications for other funding, such as through FDEP Resilient Florida Grants
 - \$17.6M EPW
 - \$21M WUD
 - \$1.4M OOR & Water Resources Manager
- Coastal Resilience Partnership Climate Change Vulnerability Assessment phase 1 completed this year, assisted by \$147k in grant funding. Phase 2 will be completed in FY 22 with a \$74k DEP grant.



Metric: Ensure consistent planning and designing for sea level rise and extreme weather events



United Nations Intergovernmental Panel on Climate Change (IPCC) and National Oceanic and Atmospheric Administration (NOAA)-based curves.

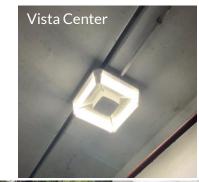
12 Climate Threats to the County



Metric: Reduce facility energy and water use intensity

Garage LED Lighting Integration

- ▷ Installed 208 LED lamps in the Vista Center Garage.
- Average monthly kWh demand was reduced by 15%!
- ▷ FDO is now researching daylight harvesting systems, which allow for automatic lighting control, resulting in reduced energy consumption and costs.





- Installed at the new PBSO Forensic Sciences and Technology Facility.
- Utilizes water-cooled condensing units in lieu of air-cooled equipment.
- Avoids using the building's HVAC system resulting in lower maintenance demand.

PBSO Bulk Vault Walk-In Cooler & Freezer

Goal Metric: Keep County facilities operational and maintain level of service during and after interruptions to routine operations*



^{*}Based on FY2021 business hours per month for FD&O managed building(s) or facility(s) countywide.

Metric: Electrify Transportation

Electric Vehicle (EV) Chargers at County Facilities

- EV chargers have been installed for four employee-only spaces and two public spaces, including one ADA space
- Chargers for twelve public parking spaces at Convention Center FY22
- Anticipated charging equipment at Vista Center in FY23
- Two Tesla chargers and one universal Level 2 electric vehicle charger are available in PBI's short-term parking garage, along with two universal charging stations in the Travel Plaza/Cell Phone Lot. Exploring additional charging stations for the parking facilities and the Cell Phone Lot.

Chargers for Electric Buses

- Infrastructure for 20 EV charging stations at Palm Tran's South County facility installed in 2021
- Palm Tran has funds to buy seven electric buses with the respective charging stations by FY2024-25

Code Amendments for an EV-ready community

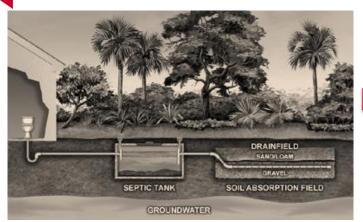
- Requires electrical capacity and conduit for equipment in new and redeveloped commercial office and multifamily residential developments
- Proposed code amendments were preempted in 2021. Staff are working to update amendments for 2022

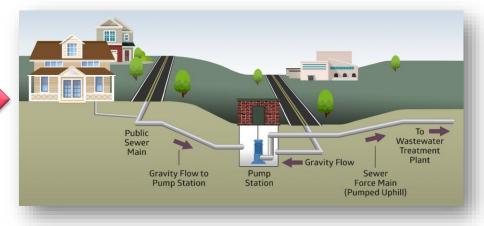


Goal 2

Continue to preserve existing infrastructure and deliver new infrastructure that conforms to the latest industry standards.

Metric: Continue to convert existing infrastructures to conform to latest industry standards





Parks & Recreation teamed-up with Water Utilities to develop plans and timelines for conversions.

Septic to Sewer conversions improve overall water quality and contribute to Countywide resiliency efforts!

Planned Septic to Sewer Conversions at County Parks:

- Lake Ida West Park
- John Prince Memorial Park
- Loxahatchee Groves Park
- Juno Park
- o Caloosa Park
- Okeeheelee Park
- Lake Lytal Park
 - Morikami Park

Metric: Identify, fund, and implement capital improvement needs in a

timely manner

IST Playground renovations completed in FY 21:

- Juno Park
- Paul Rardin Park
- John Stretch Park
- Lake Ida West Park
- Sanders Drive Park
- Dyer Park









IST Sports Lighting renovations completed in FY 21:

- Dyer Park
 - Burt Aaronson South County Regional Park
- Okeeheelee Park Tennis Courts
- Jupiter Farms Baseball Fields 1 and 2
- Westgate Sports Fields and Basketball Court
- Juno Park Baseball Field 1
- Caloosa Park MP Fields 5 and 6

Metric: Completion of Projects on Schedule and Budget

- > FDO completed:
 - 1 New Construction PBSO Forensic Sciences and Technology Facility (\$31M)
 - O 2 Building Expansions Palm Tran South County Administration building (\$26M) & Convention Center Courtyard (SKYroom) (\$1.9M)
 - 5 Building Renovations
 - 926 New Fleet Vehicle/Equipment Acquisitions

- ENG resurfaced over 250 lane miles of roads (\$19M); 2 bridge replacements (\$2M)
- WUD completed 29 miles of pipe upgrades



Metric: Completion of Projects on Schedule and Budget

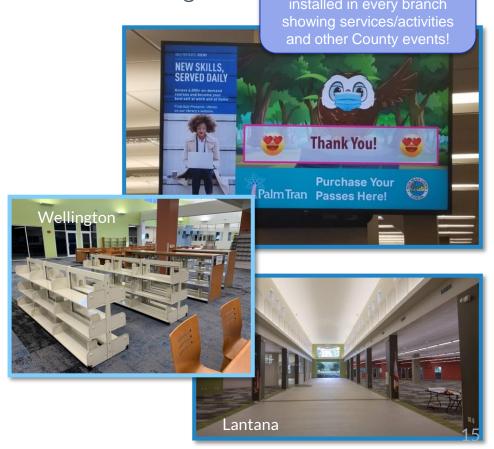
Library Updates

Lantana & Wellington

- Total interior renovation, consolidated service desks, all new paint and flooring, new LED lights, new digital media center w/green wall, additional study rooms, updated landscape and parking lot.
- Renovations complete at both and expected to reopen by year's end.

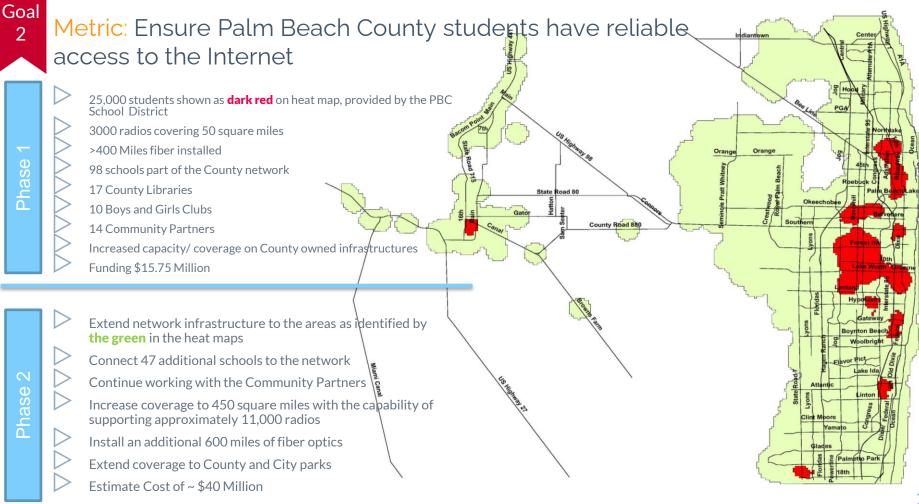
Canyon Branch

- 33K sq/ft with outdoor plaza, LEED design with all LED lighting, equipped to receive solar power and EV charging stations.
- Currently in permit phase, expected start date March 2022.



Grant funded digital

message boards have been



Metric: Accommodate increasing passenger demand while enhancing airport facilities to maintain safe and efficient operations

Palm Beach International Airport (PBI) Highlights

- Passenger levels continue to rebound
- New or expanded service and carrier options announced
- Infrastructure projects continue to move forward related to terminals, airside and landside facilities

Voted 7th Best Airport in the U.S. in Conde Nast Traveler 2021 Readers' Choice Awards

Schedule Trends

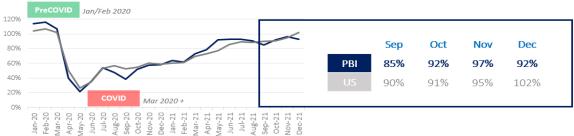
FALL 2021

DAILY DEPARTURES - Peak Thursday 2019 to 2021



CAPACITY - % of 2019 Recovered

PBI vs US Average 120%



Source: Cirium Flight Schedules; revised 9/1/21

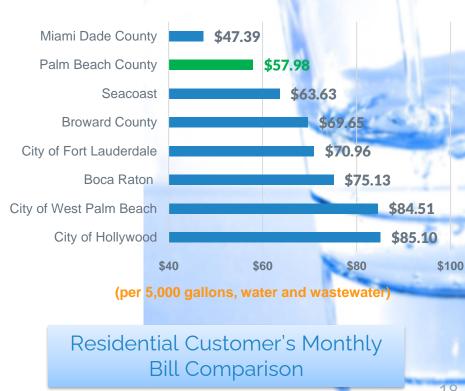
Metric: Provide safe and affordable water to Palm Beach County residents

Lead and Copper Monitoring Update

The 2020 analysis of drinking water from inside residences showed that the levels of lead and copper are lower than the regulatory requirements.

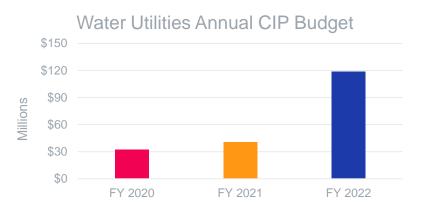
	Samples Collected
Eastern Region	105
Western Region	60

- The Department of Health allowed Water Utilities to shift from an annual analysis to once every three vears.
- In 2024 the EPA's Lead and Copper Rule Revisions becomes effective.



Metric: Continue to implement WUD Capital Improvement Program on Schedule

- "Integrated Master Plan" Project phase I completed
- CIP 5 years spending is **projected** to be above \$400M



Green Cay phase II project started





Third largest water utilities in State



100% in compliance with all applicable rules and regulations



AAA rated by national bonding agencies

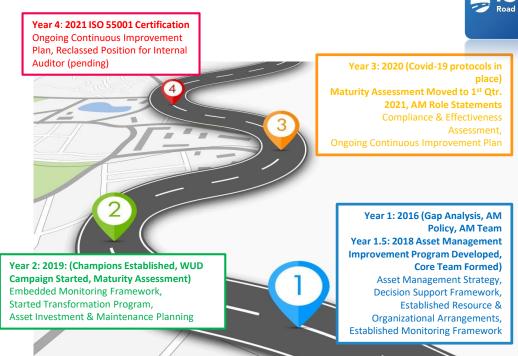
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WUD: Asset Management System

ISO Road to '21

- \$5 Billion worth of assets
- Build a asset management methodology that supports asset preservation and sustainment supporting our Capital Improvement Program
- Being leaders in our industry proving commitment to the County and customers



M BEACH CO

55001

1st Water Utility in North America



Congratulations!







Certificate

ISO 55001

Certificate number: Certification Date : Expiration Date : UMS-PBCWUDISO55-01 15th October 2021 14th October 2024

UMS Group Inc. has determined that the Asset Management System (AMS) used and applied by:

PALM BEACH COUNTY WATER UTILITIES DEPARTMENT

8100 Forest Hill Boulevard, West Palm Beach, FL 33413

Meets with the requirements of ISO 55001. The AMS is applicable for the assets operated and maintained by PBCWUD.

The processes in scope are described in the Strategic Asset Management Plan (SAMP), the Integrated Utility Master Plan (IUMP), and the Capital Improvement Plan (CIP). The AMS processes and responsibilities are embedded and effectively integrated across the enterprise in all departments, as well as the management team.

at ASI

Brett A. Shaw Lead Auditor Principal UMS Group Inc.

> UMS Group Inc. 111 Littleton Road Suite 111 Parsippany, NJ 07054, USA www.umsgroup.com

Kate a Tancke

Kate Tancke Auditor Senior Consultant UMS Group Inc.





Goal 3

Create safe, healthy, and attractive neighborhoods and communities.

Metric: Completion of Projects on budget



Pickleball Courts

- John Prince Memorial Park (\$50k Impact Fees)
 - Burt Aaronson South County Regional Park (\$200k Impact Fees)

Basketball Courts

- Limestone Creek Park (\$188k CDBG Funds & \$48.7k OCR)
- San Castle Community Park (\$188k CDBG Funds & \$48.3k OCR)

Okeeheelee Nature Center Interpretive Signage received 2021 Graphic Design USA Health + Wellness Design Award!



Metric: Completion of Projects on budget

Canyon District Park

 District Park in West Boynton Beach

Phase I currently under construction

 Phase II under design, expected late 2022

Combination of IST Funding and

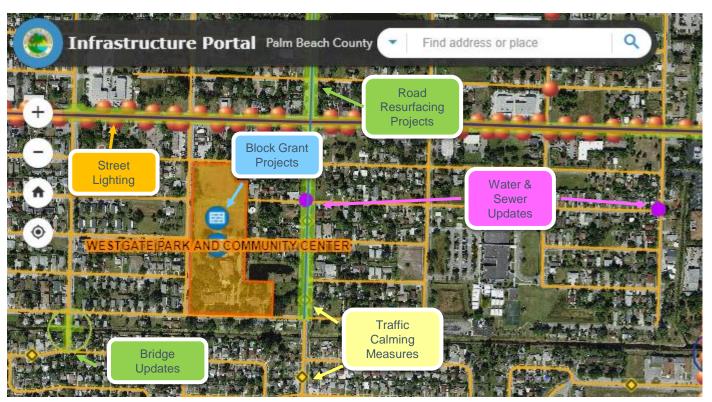
Impact Fees





- Bert Winters Park Phase II
- Aquacrest Aquatic Center replacement
- Lake Lytal Park Aquatic
 Center
- Villages of Windsor Park
- Carlin Park Pickleball & Sand Volleyball Courts

Metric: Assess existing infrastructure and service delivery needs in CCRT areas



Progress on the 2022 Community Needs Analysis Report:

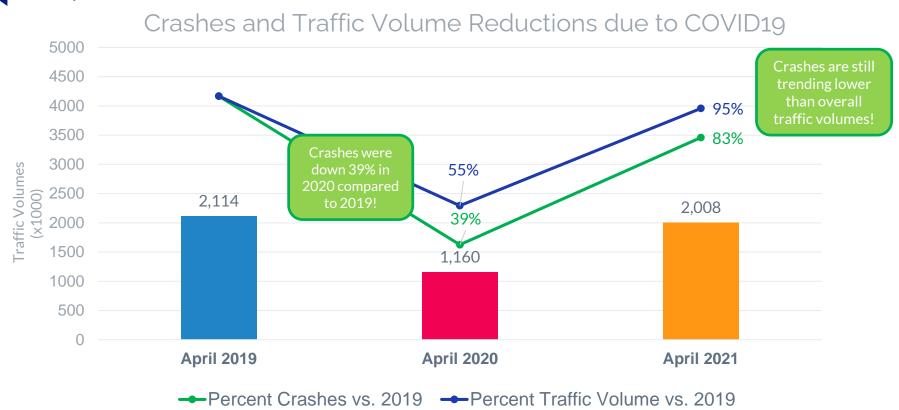
- Obtained updated census data for unincorporated areas including income levels and property values
- Created CCRT critical deficiencies summary with weighted values depicting areas with greatest need
- Attained code and law enforcement statistics for crime levels in CCRT Areas from the last 5-years
- Used the new GIS
 Infrastructure Portal to
 analyze CCRT areas for
 deficiencies and track ENG,
 WUD, P&R, and others'
 upgrades and other relevant
 projects

Metric: Continue to provide safe and accessible means of multimodal transportation





Metric: Continue to provide safe and accessible means of multimodal transportation



Goal 4

Increase multimodal travel opportunities with safe and efficient transportation services.

Metric: Expand Multimodal Travel Options

Vertiport Lease

On October 19, 2021, the Board of County Commissioners approved a lease with Ferrovial Vertiports Florida, LLC for the construction of a landing and take-off area at Palm Beach International Airport (PBI) for the operation of electric vertical take-off and landing (eVTOL) aircraft being developed by Lilium GmbH, a German limited liability company.

Sustainability Management Plan

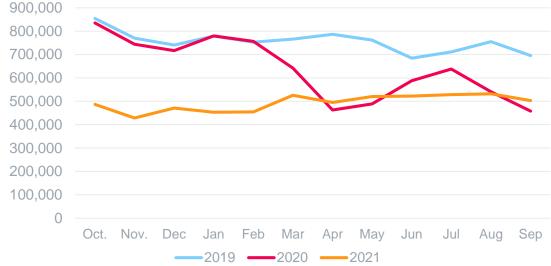
- Airports is currently working with consultants to produce a Sustainability Management Plan, which may include EV or alternative fuel vehicles for Airports ground operations.
- Airports is also considering overall emissions reduction targets as part of the plan.

Voted 8th Best Domestic Airport in *Travel* + *Leisure* Magazine's 2021 World's Best Awards!

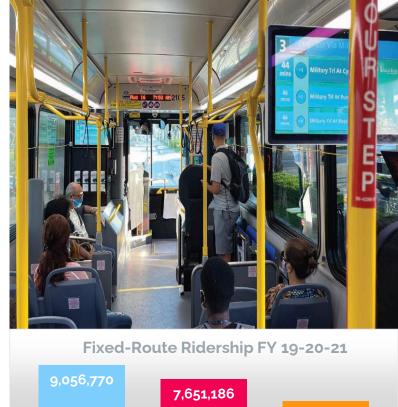


Metric: Increase Palm Tran Ridership

Monthly Ridership Trend



- Palm Tran's ridership is currently at -29.1% compared to the pre-COVID-19 ridership level (2019).
- o Palm Tran transported over 10.8 million passengers since the beginning of this emergency (March 2020 September 2021).

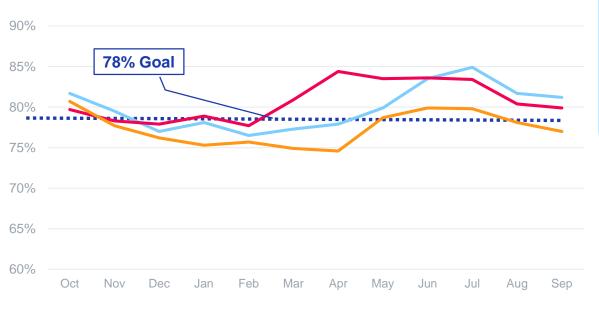




Metric: Improve Palm Tran On-Time Performance

On-Time Performance

(Depart no more than zero minutes early nor leave no more than five minutes late)



FY 2020

FY 2019



2021 Public Agency 2021 Corporate Executive



Certificate of Merit for Safety for implementing exceptional COVID-19 safety initiatives



Safety Award COVID-19 Outstanding Service Recognition



Mobility Enhancements Today and Into the Future





New Palm Tran Headquarters - Delray Beach



Fare Technology Upgrade



Bus Stop & ADA Improvements



First mile/Last mile Mobility On Demand 561 Plan



Master Plan for Fleet & Infrastructure Electrification



Next Steps

- Continue to identify overarching goals to ensure high quality, sustainable, and resilient infrastructure services Countywide.
- Keep coordinating County department projects to reduce overall infrastructure related costs and interruptions to the community.
- Continue the assessment of existing infrastructure and service delivery needs in residential neighborhoods located in unincorporated Palm Beach County, with a focus on underserved CCRT neighborhoods.
- On-going development of strategies and implementation plans to address existing deficiencies and funding strategies to complete capital improvements.
- Establish key performance indicators that support Team's goals.