



**Hillsborough
County Florida**

**Board of County Commissioners
Budget Workshop Agenda
July 23, 2025
1:30 PM - 3:00 PM**

Call to Order	Ken Hagan, Chair, BOCC
Opening Remarks	Bonnie Wise, County Administrator
Transportation	Kim Byer, Assistant County Administrator, Public Works Administration and Josh Bellotti, Director, Engineering & Operations Department
Stormwater	Jon Dinges, Black & Veatch Corporation, Kim Byer, Assistant County Administrator, Public Works Administration and Josh Bellotti, Director, Engineering & Operations Department
Board Discussion	
Adjourn	

Budget Workshop **Transportation**

Public Works Administration
July 23, 2025



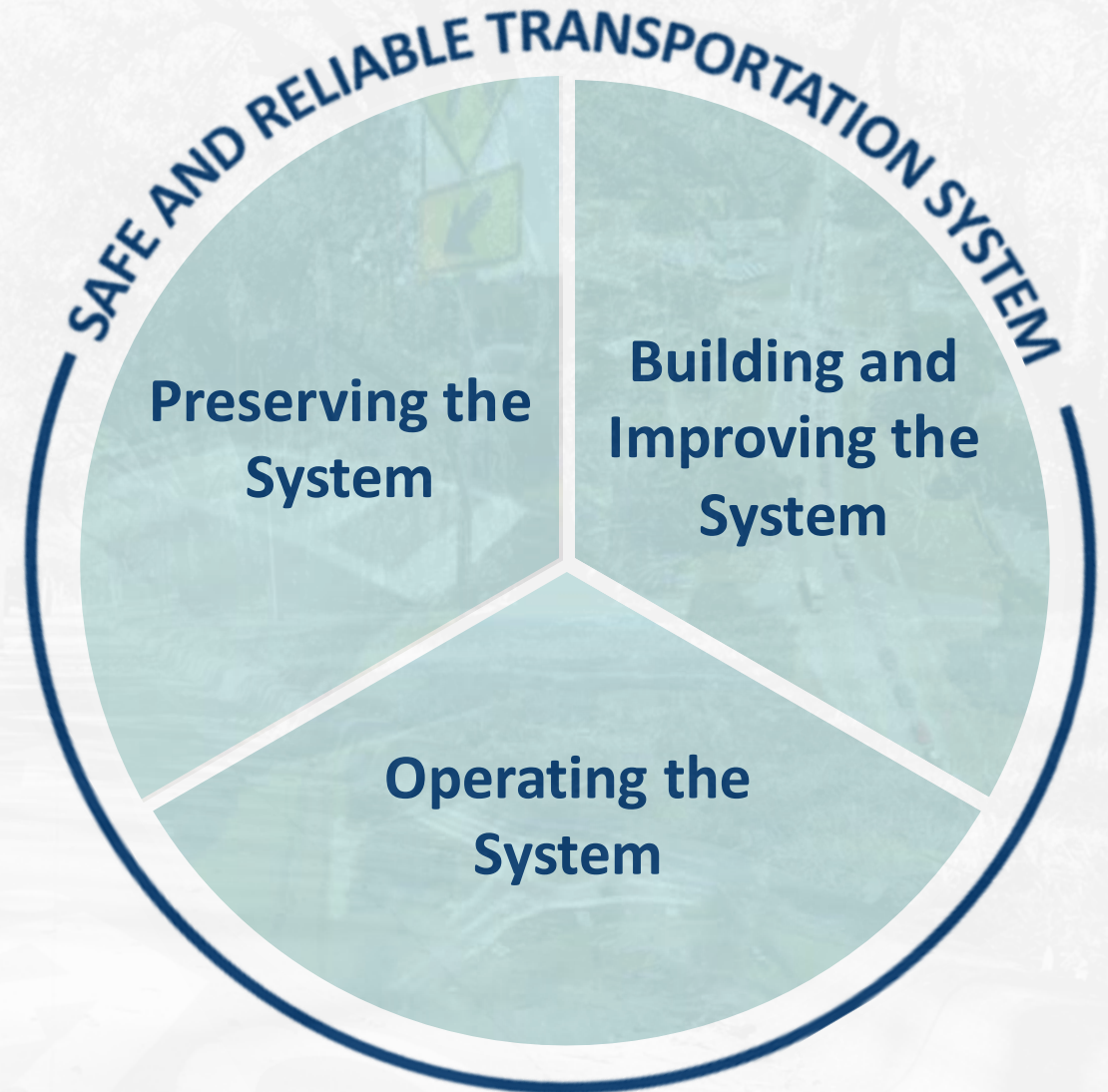
Hillsborough
County Florida

Agenda

- 1. Mission Statement and Core Services**
- 2. Transportation Assets and Budget Allocation**
- 3. Preserving the System**
- 4. Building and Improving the System**
- 5. Transportation Operational Challenges**
- 6. Strategies and Opportunities for Improvement**

Mission and Core Services

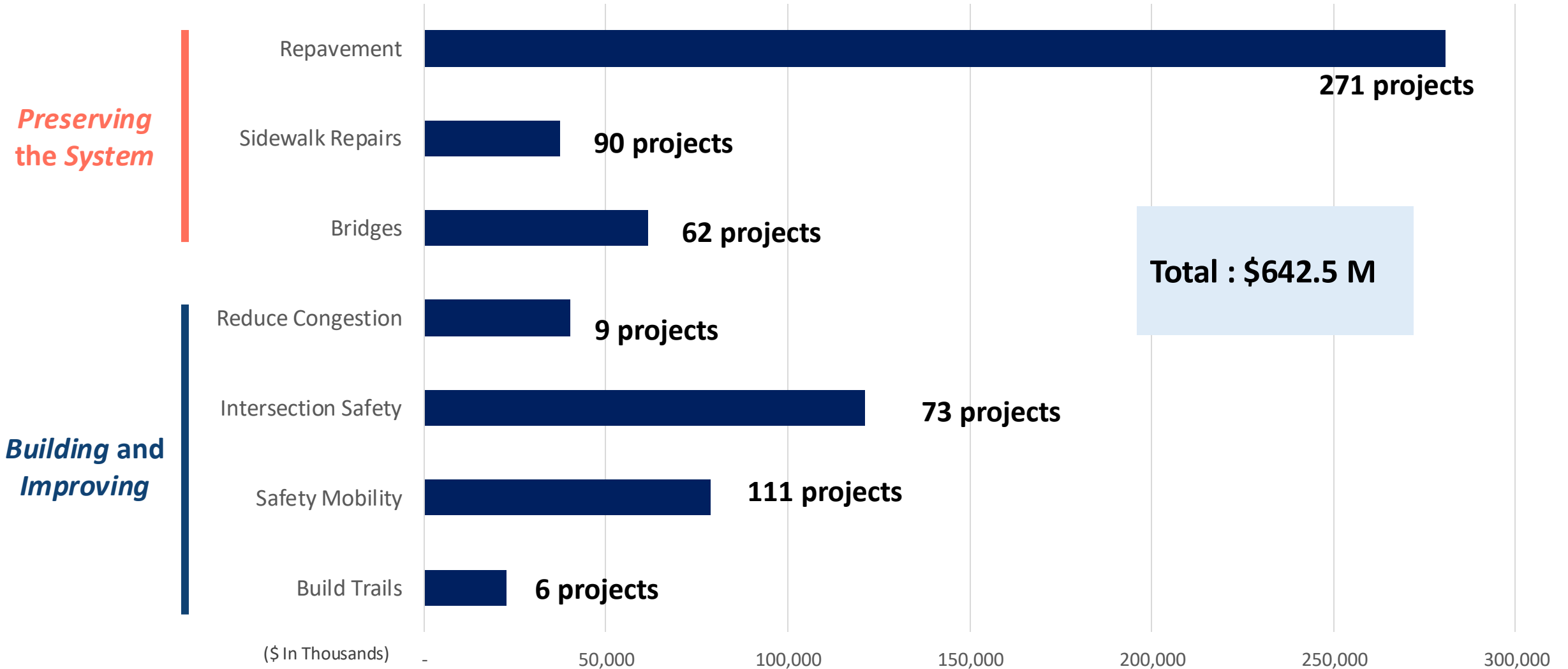
“Public Works is dedicated to building, maintaining, and improving a safe and reliable transportation system for all users.”



Transportation Assets



Transportation Program FY25 Budget Allocation



Roadway Preservation and Prioritization

Assessing needs through condition assessment of pavement network every two years

Prioritized by Pavement Condition Index (PCI) and Traffic Volume.

- Major Road Groups
- Local Road Groups
- Localized Repair



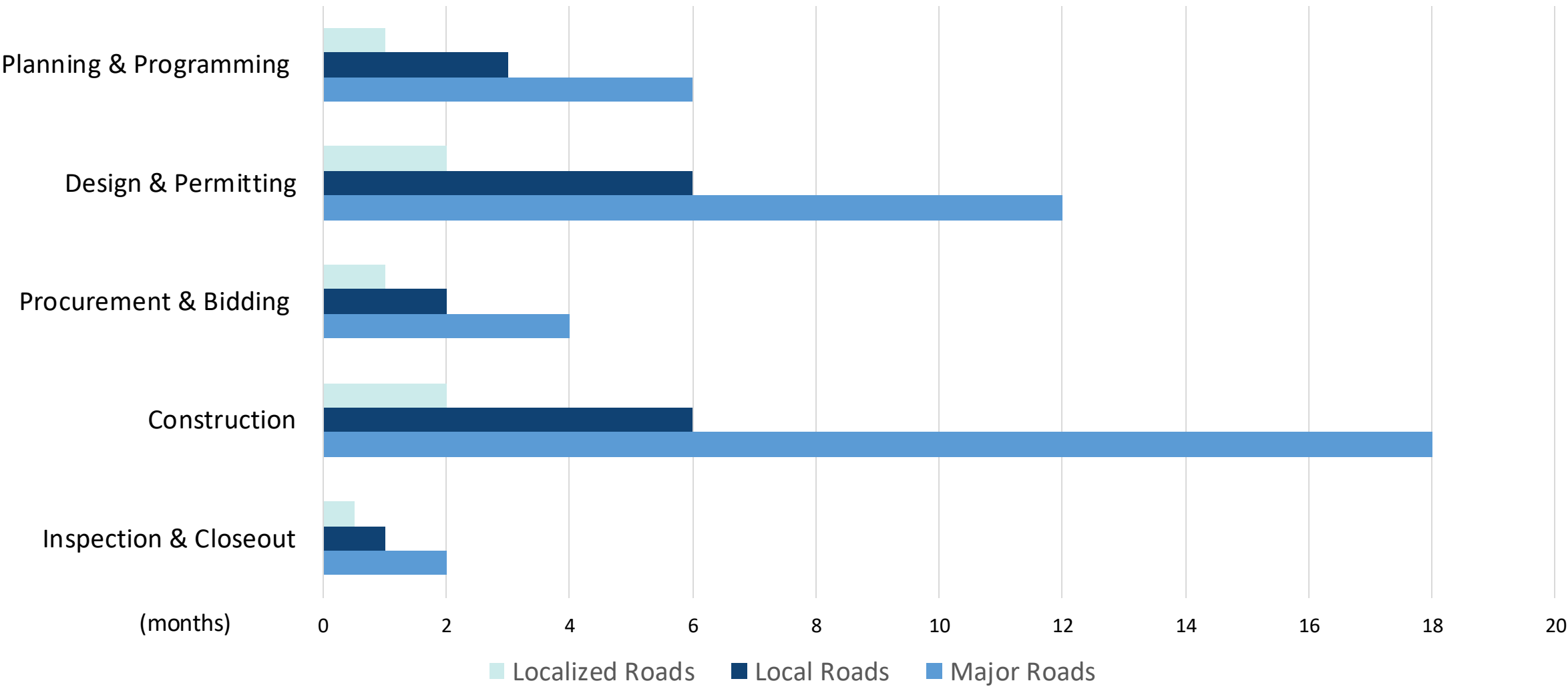
Snapshot of Funding Sources



Gas Tax
Ad Valorem
CIT
Surtax

Project Cycle of Roadway Preservations

Project Cycle Duration by Road Type



Sidewalk Repair: Assessing Needs & Project Prioritization

Needs identified through community service requests

Prioritized by date of oldest request in project group and / or neighborhood



Reduced sidewalk repair backlog by 9 percent in the last two years

Addressing backlog of 2015 in FY26

891 neighborhoods



Bridge Repair & Replacement: Assessment / Prioritization

Needs assessed through condition assessment of bridge network every two years

Prioritized by Bridge Condition and Safety Risk Factors, including:

- Traffic Volume/Speed
- Detour Length
- Flood Susceptibility



The average
bridge is

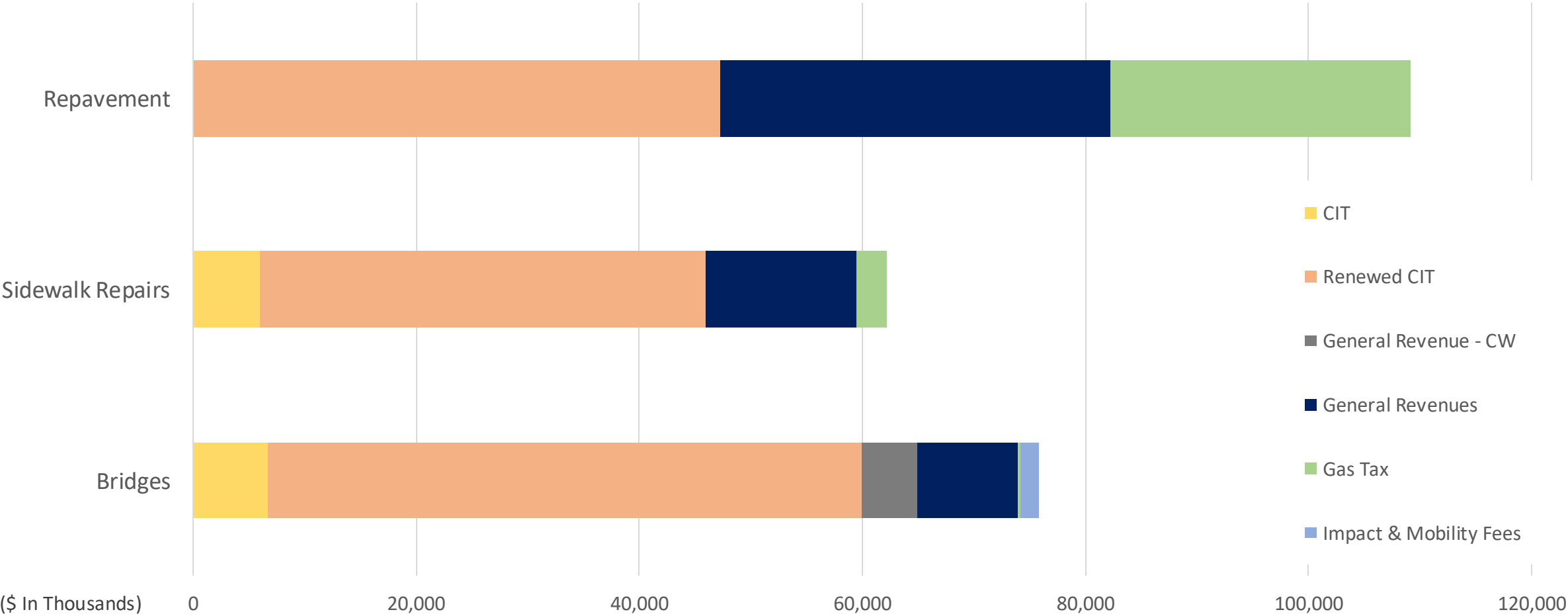
43

years old



Preserving The System: Projected Funding Mix

Projected Transportation System Funding (based on Recommended FY26-31 CIP and Renewed CIT Projection)
(Estimates in Thousands \$)



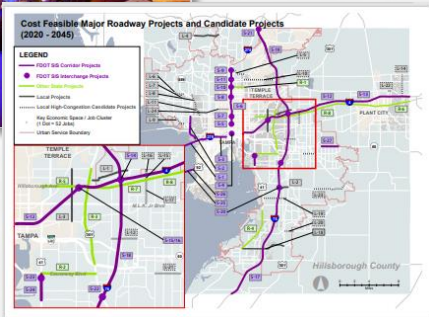
Congestion Relief: Assessing Needs & Project Prioritization

Needs assessed through..

- Traffic Studies
- PD&E Studies
- TPO LRTP Cost Feasible Plan

Prioritized by..

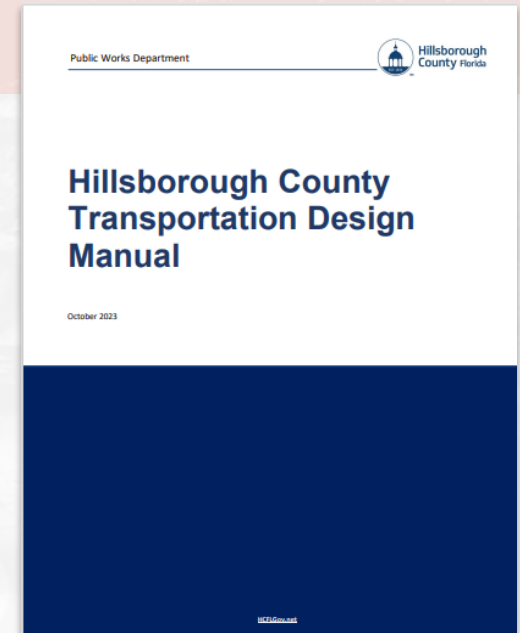
- Community Input and benefit cost, such as methodologies described in our **Transportation Design Manual (HCTDM)**.



Van Dyke Road Public Hearing



Lithia Pinecrest PD&E Study
Open House



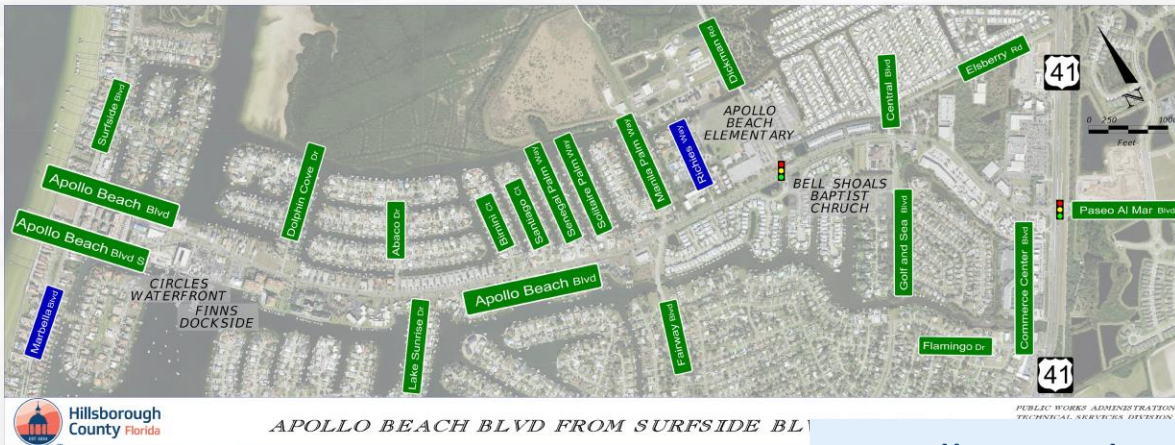
Intersections, Safety, and Mobility: Assessing Needs & Project Prioritization

Needs assessed through..

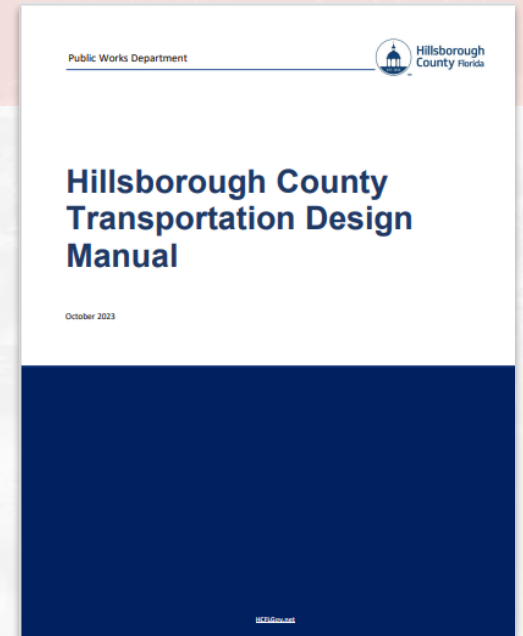
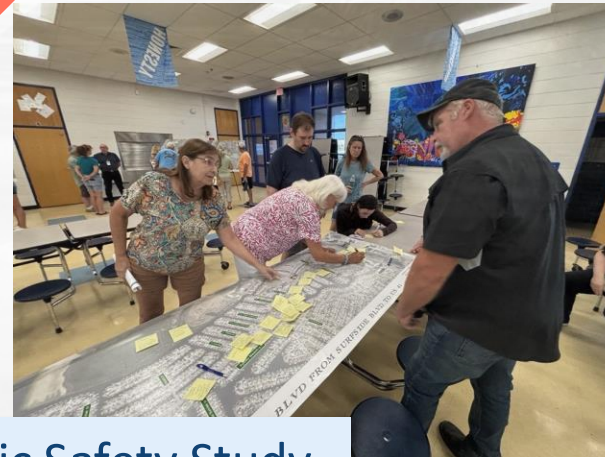
- Traffic Studies
- Feasibility / PD&E Studies
- Safety and Operations Analysis

Prioritized by..

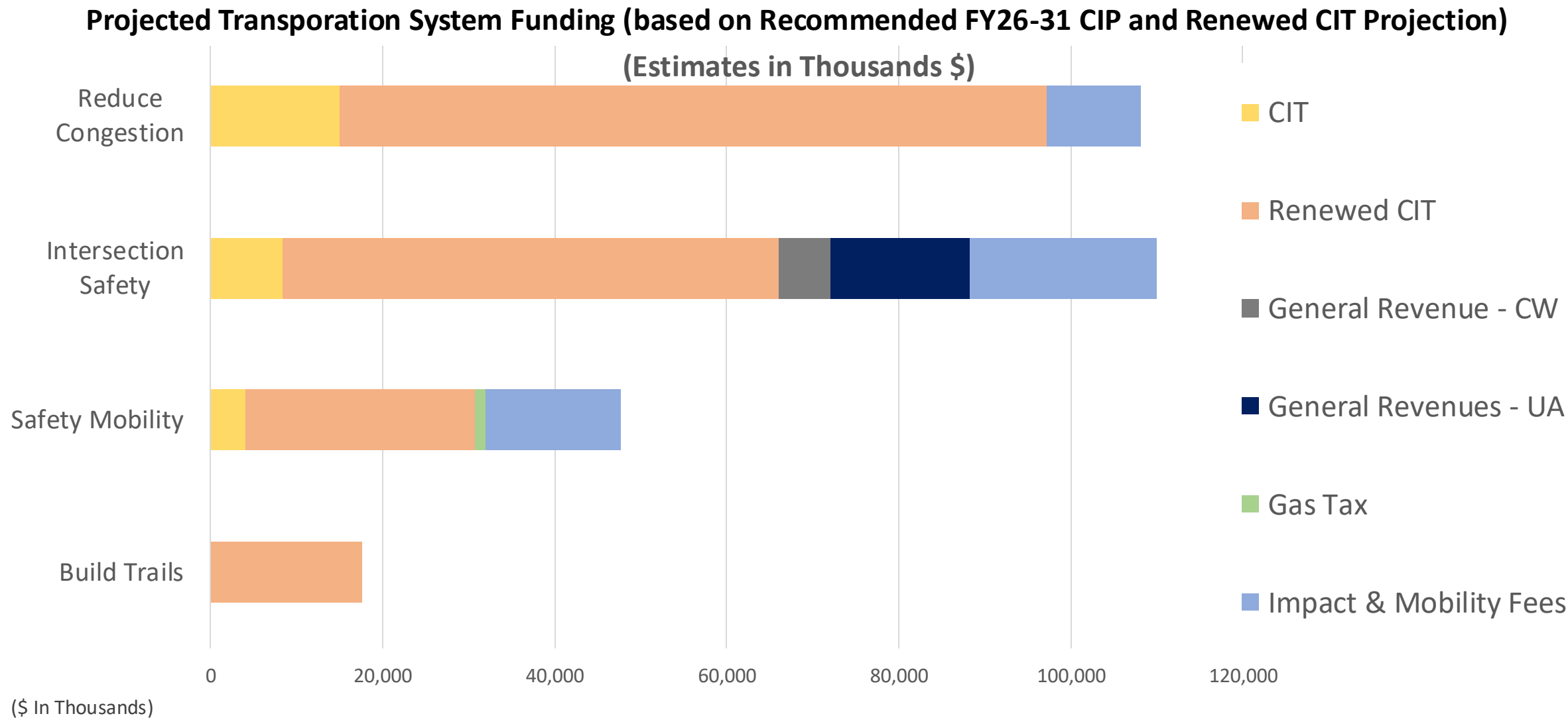
- Community Input and benefit cost, such as methodologies described in our **Transportation Design Manual (HCTDM)**.



Apollo Beach Traffic Safety Study



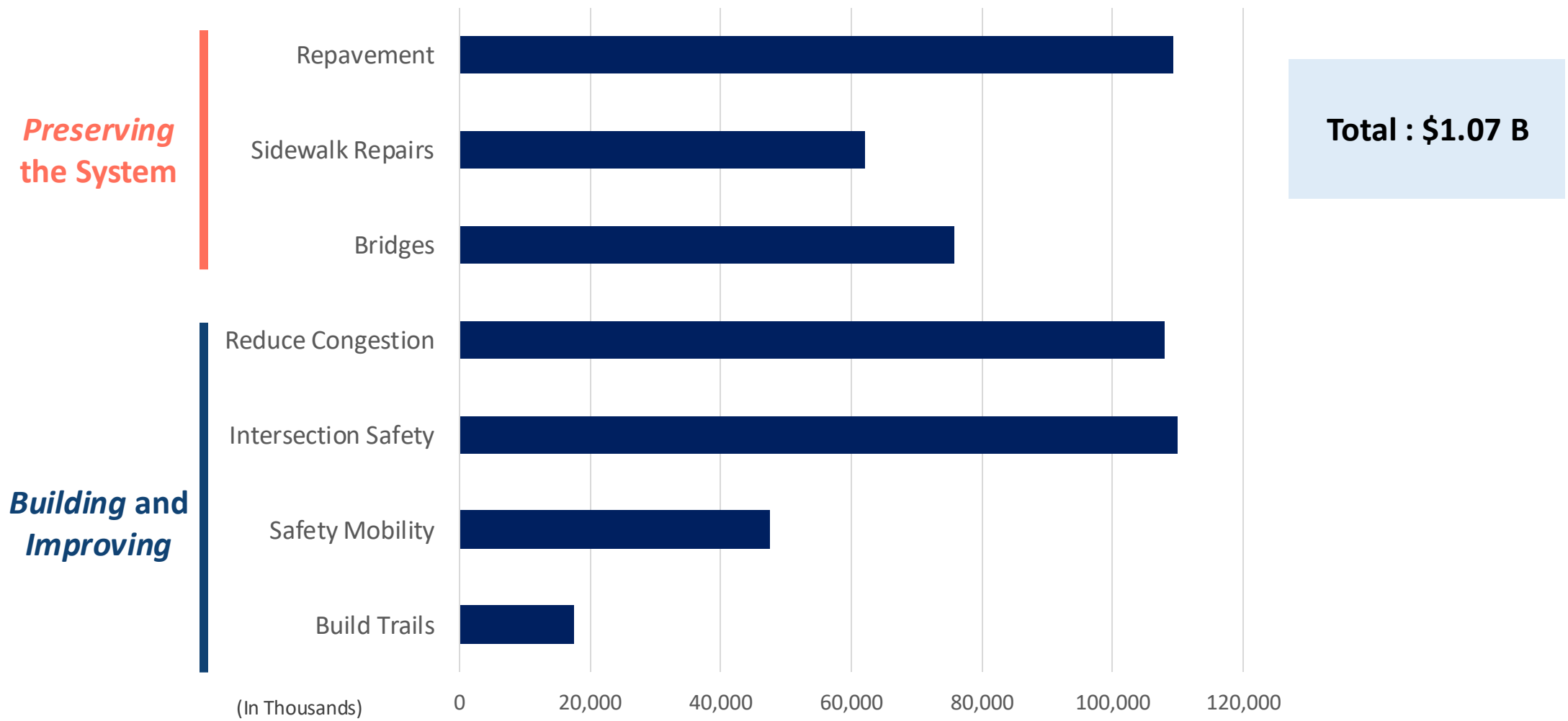
Building & Improving: Projected Funding Mix



Overall Summary of Projected Funding

Projected Transportation System Funding (based on Recommended FY26-31 CIP and Renewed CIT Projection)

(Estimates in Thousands \$)



Strategies to Maximize Current Funding Needs

Preservation



Leveraging Technology



Safety



Collaboration



Grants



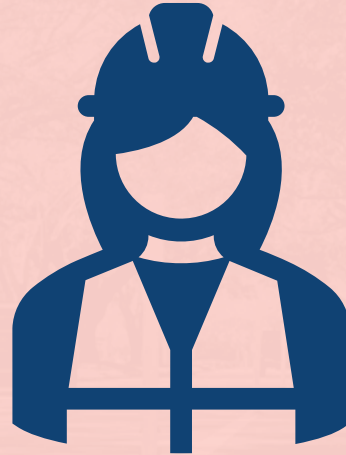
Optimizing Resources



Challenges



**Recruiting & Private Sector
Competition**

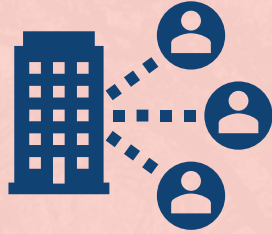


**Contractor & Material
Availability**

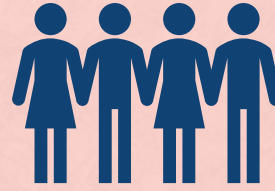


FTEs / Resources

Strategies to Address Challenges



Collaboration



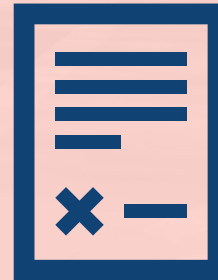
Target Recruitment



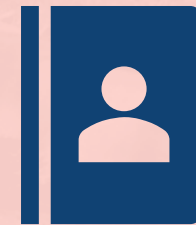
**Professional
Development**



**Local Vendor
Engagement**



Contract Maintenance



Benchmarking

Questions?



Hillsborough
County Florida

Post-Hurricane Regional Stormwater Assessment

Summary of Findings

July 23, 2025

Post Hurricane Regional Stormwater Assessment

Assessment goals & objectives:

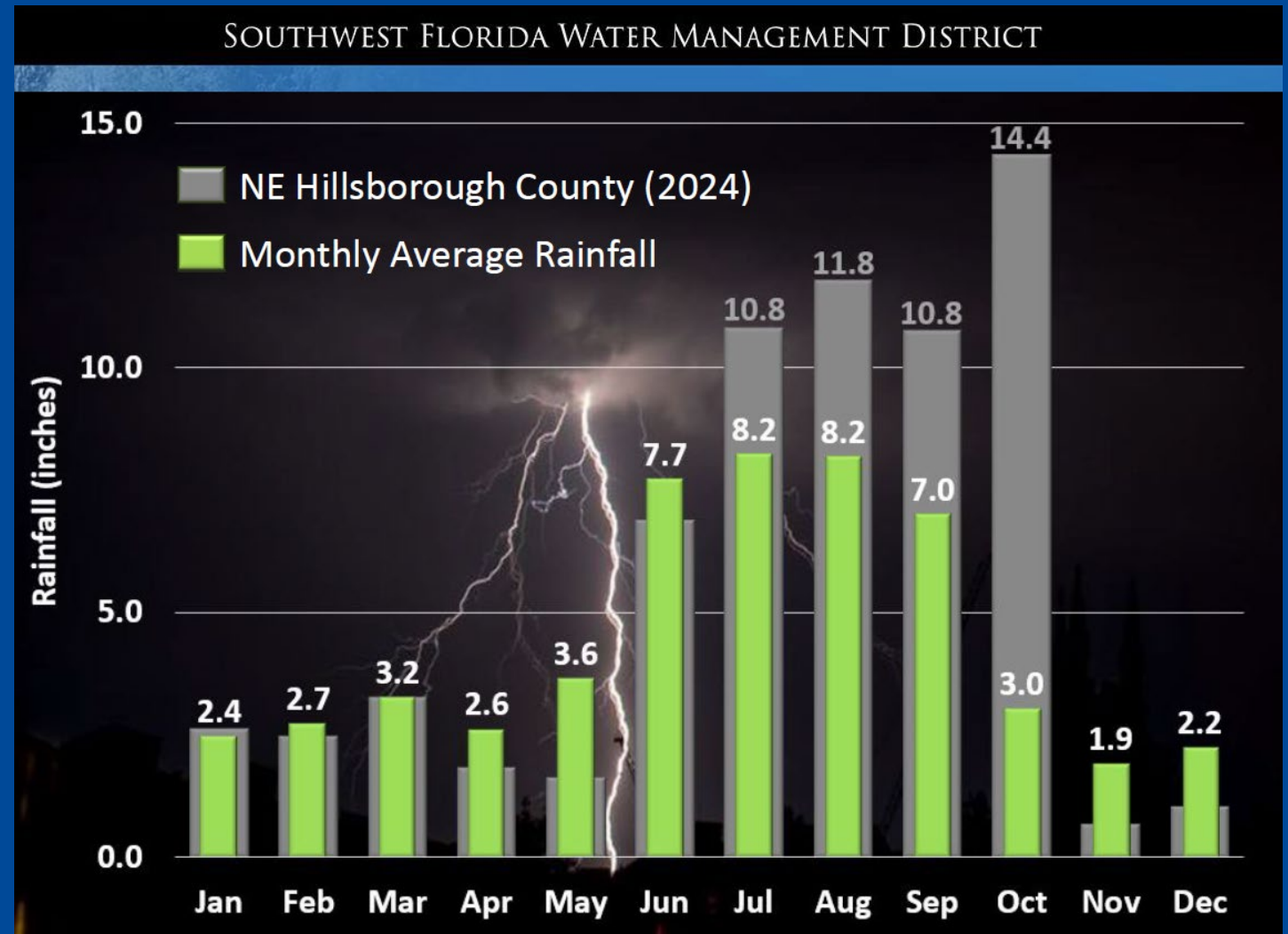
- Evaluate performance across key stormwater program areas
- Determine stormwater needs
- Develop Recommendations

Unprecedented Rainfall & Unprecedented Flooding

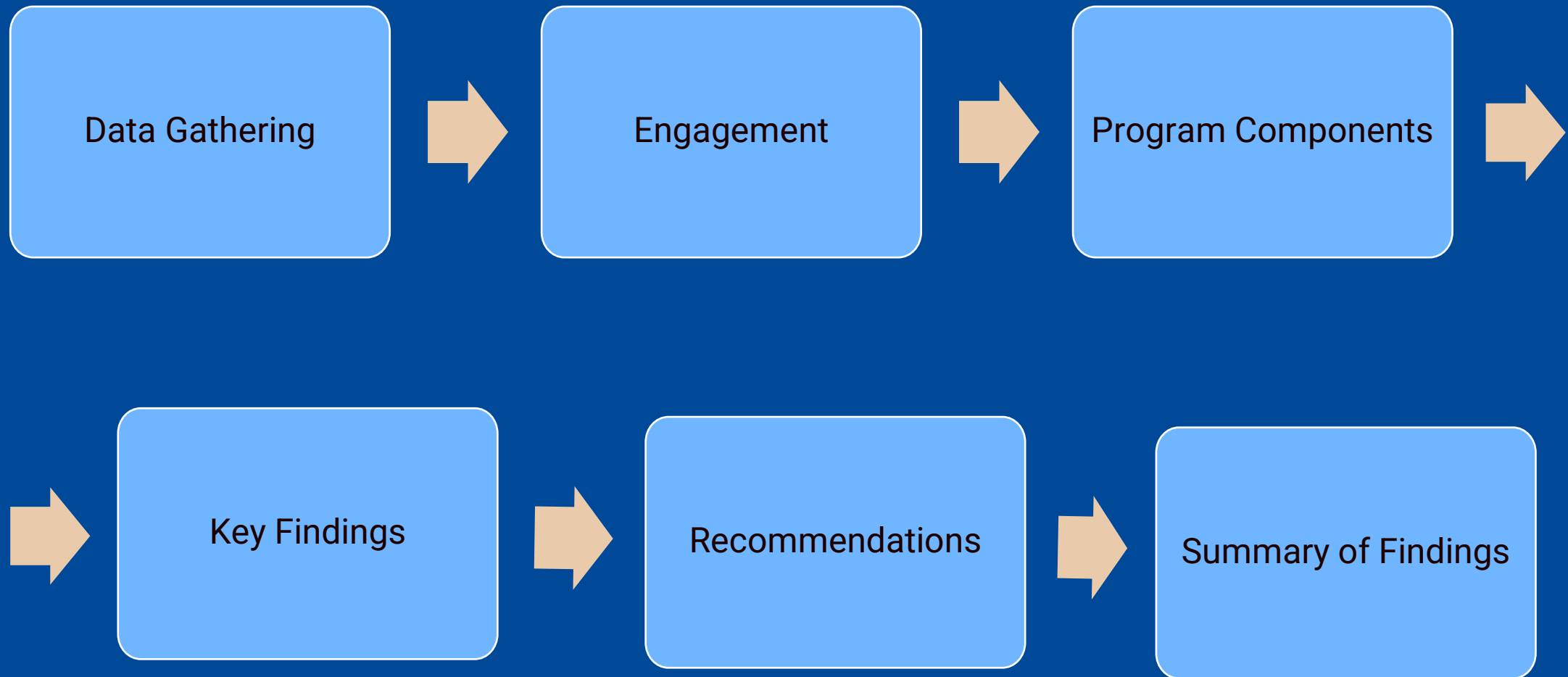
Cumulative Rainfall Exceeded the next highest year by 22 percent

Total 2024 Rainfall: 80.29"

Hurricane Milton Rainfall: 10-15+"



Approach



Data Gathering



Engagement

Meeting Types

- Neighborhood meetings
- Interviews
- Stakeholder discussions
- Public open house meetings

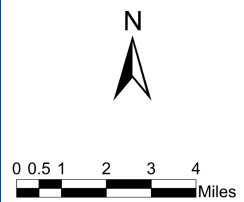
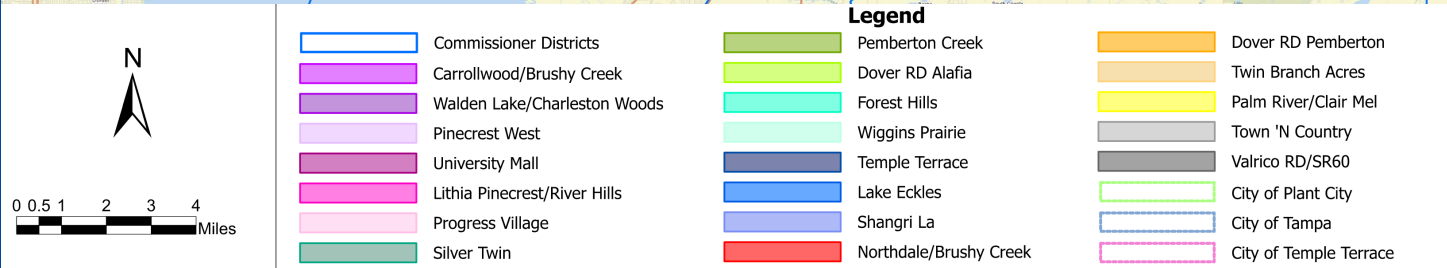
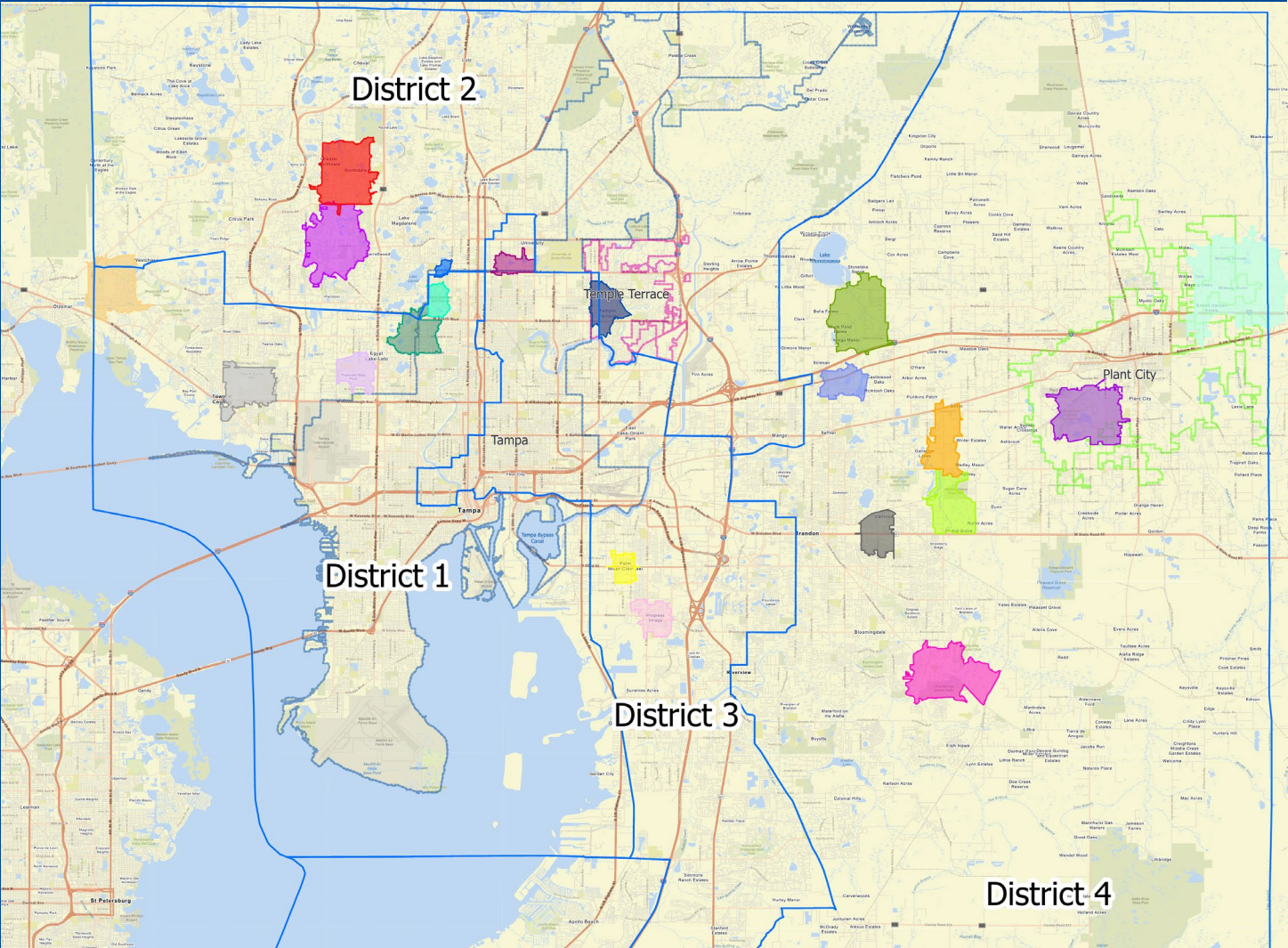
**Over 200
citizens provided
input**

**Over 450
citizens
attended 8
public meetings**

**Received over
1,500 flood
related photos**

**Stormwater
management
system
maintenance
was mentioned
over 50 times**

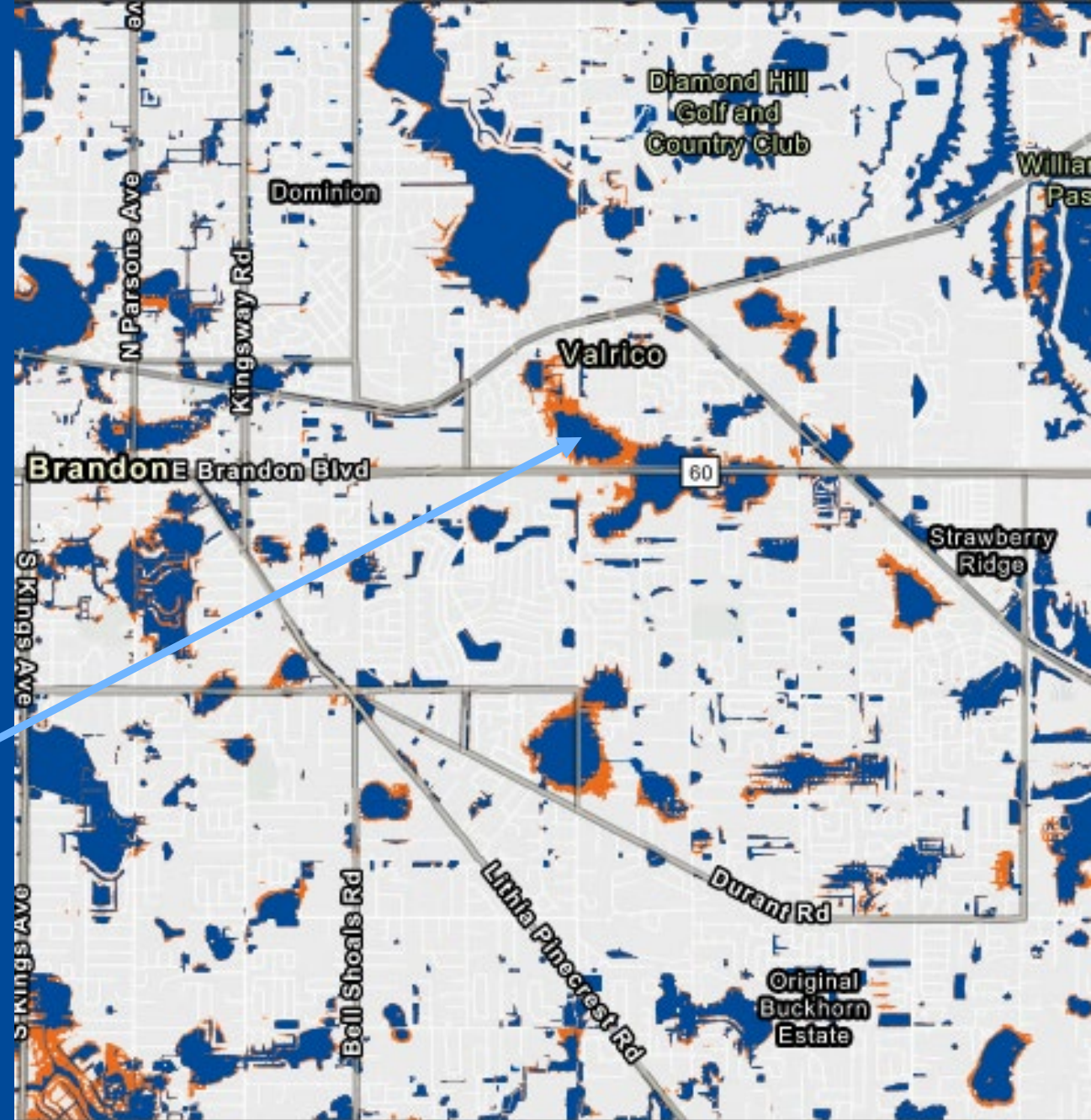
Flood Focus Areas



Findings

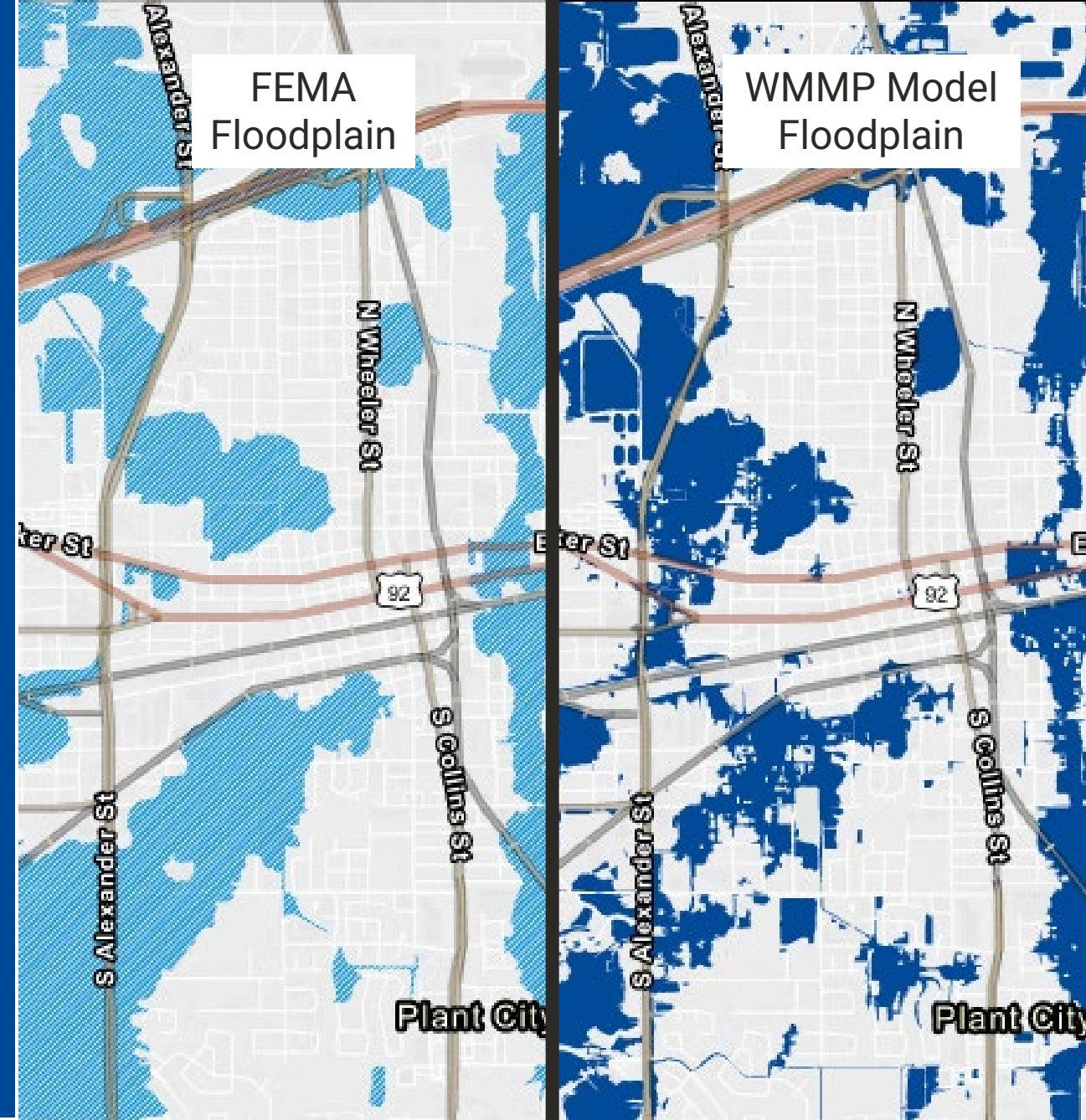
Flood Modeling

- Models results correlated well to documented flood photos
- Continue updates and improvements to flood forecasting models



Mapping

Residents who met with Black & Veatch noted that their homes were not in the FEMA flood zone. However, it's worth noting that their homes are included within the County's mapped floodplain.



Asset Management

- Ditches – Public perception is ditches are not well maintained. County inspections indicate ditches are in good condition.
- Pump stations nearing end of design life
- Recommendations:
 - Prioritize high risk ditches for a detailed maintenance plan.
 - Address challenges with off-system, private property, and natural waterways.
 - Implement ongoing pump station assessment and modernization planning effort.



Development Standards

- Stormwater Design based on 25-year, 24-hour storm event unless additional criteria applies
- Development review resource limitations
 - Need for consistent application across governmental entities
- Key Recommendations:
 - Additional staffing levels
 - Standards sufficiency reviews in flood prone areas
 - Improved intergovernmental coordination



Charlie Taylor Road Near Wiggins Prairie and new subdivisions after Hurricane Milton.



South 12th Avenue at Kirkland Drive After Hurricane Debby.

Interagency Coordination

Opportunity for improved coordination.

Key Recommendations:

- Improve coordination with SWFWMD, City of Plant City, City of Tampa, and City of Temple Terrace
- Consider enhanced resource sharing
- Consolidate similar coordination efforts across County departments
- Consider how coordination with FDOT could improve flood protection and response efforts
- Coordinate with adjacent counties on possible regional flood protection projects



Hillsborough
County Florida

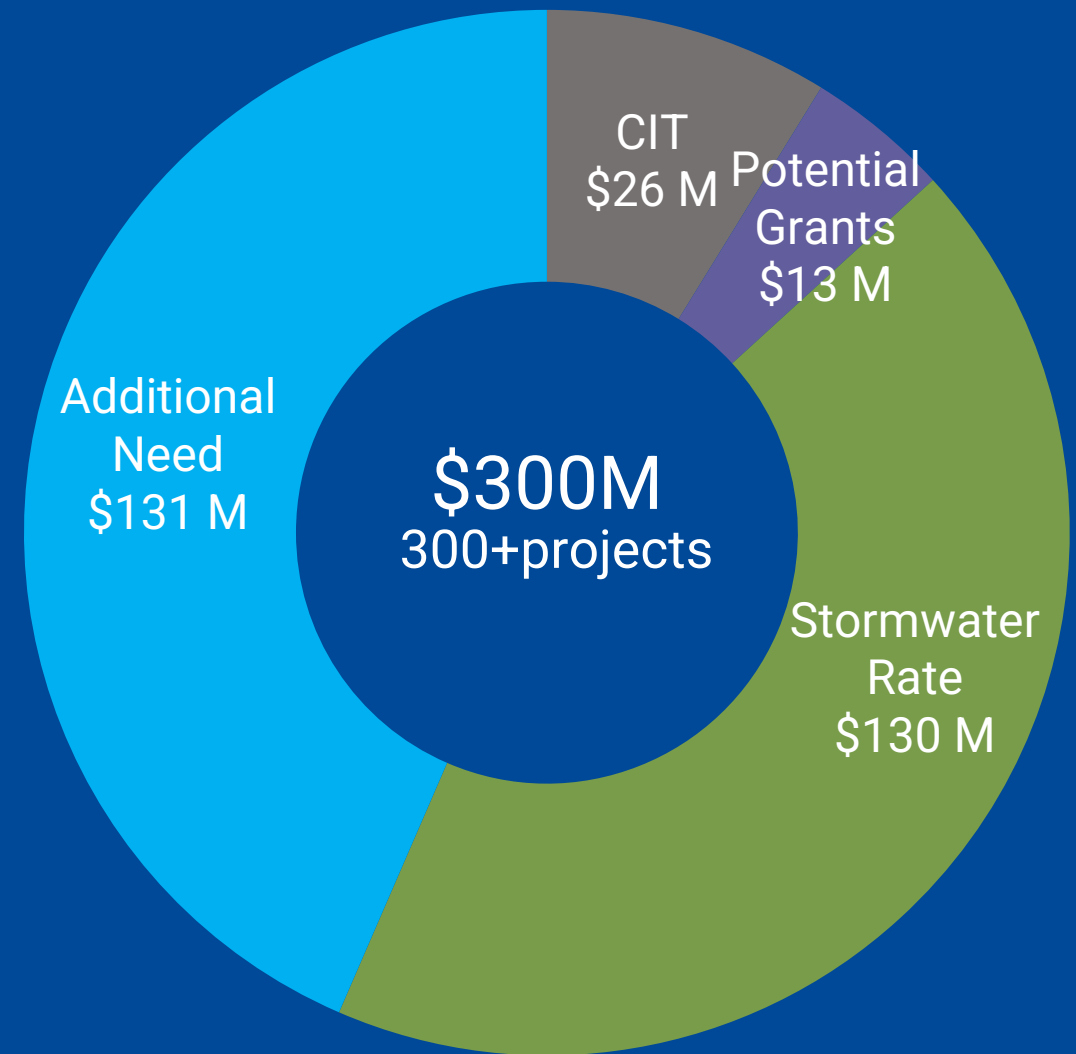


Public Awareness and Support

- Detailed work program not well conveyed to residents.
- Public not well informed of budget impacts on CIP schedules.
- Key Recommendations:
 - Enhance public awareness campaigns
 - Comprehensive communication strategy for stormwater and resilience

Capital Improvements and Funding

- Capital improvements program has a robust work program
 - Current funding program does not fully support needs
- Recommendations:
 - Optimize project prioritization based on risk
 - Reduce funding gaps with fee increases and grants
 - Adopt stormwater rate study & consider increase
- CIP implementation would result in an estimated \$120 million in flood damage savings
- Stormwater fee is among the lowest 25% within the State



Conclusions

- Robust and beneficial flood management program is providing significant benefits.
- Flood modeling and mapping, regulation, and capital improvements are key program strengths.
- Asset management, including ditch and stormwater pump station maintenance, interagency coordination, and public awareness, present opportunities for program improvement and alignment.
- Public outreach for this study was successful; enhance outreach program.
- Program funding needs elevated consideration to fully implement program improvements.
- Record rainfall led to record breaking flooding.
- Majority of assets built prior to regulations.

Stormwater Action Plan and Next Steps

Public Works Administration

July 23, 2025



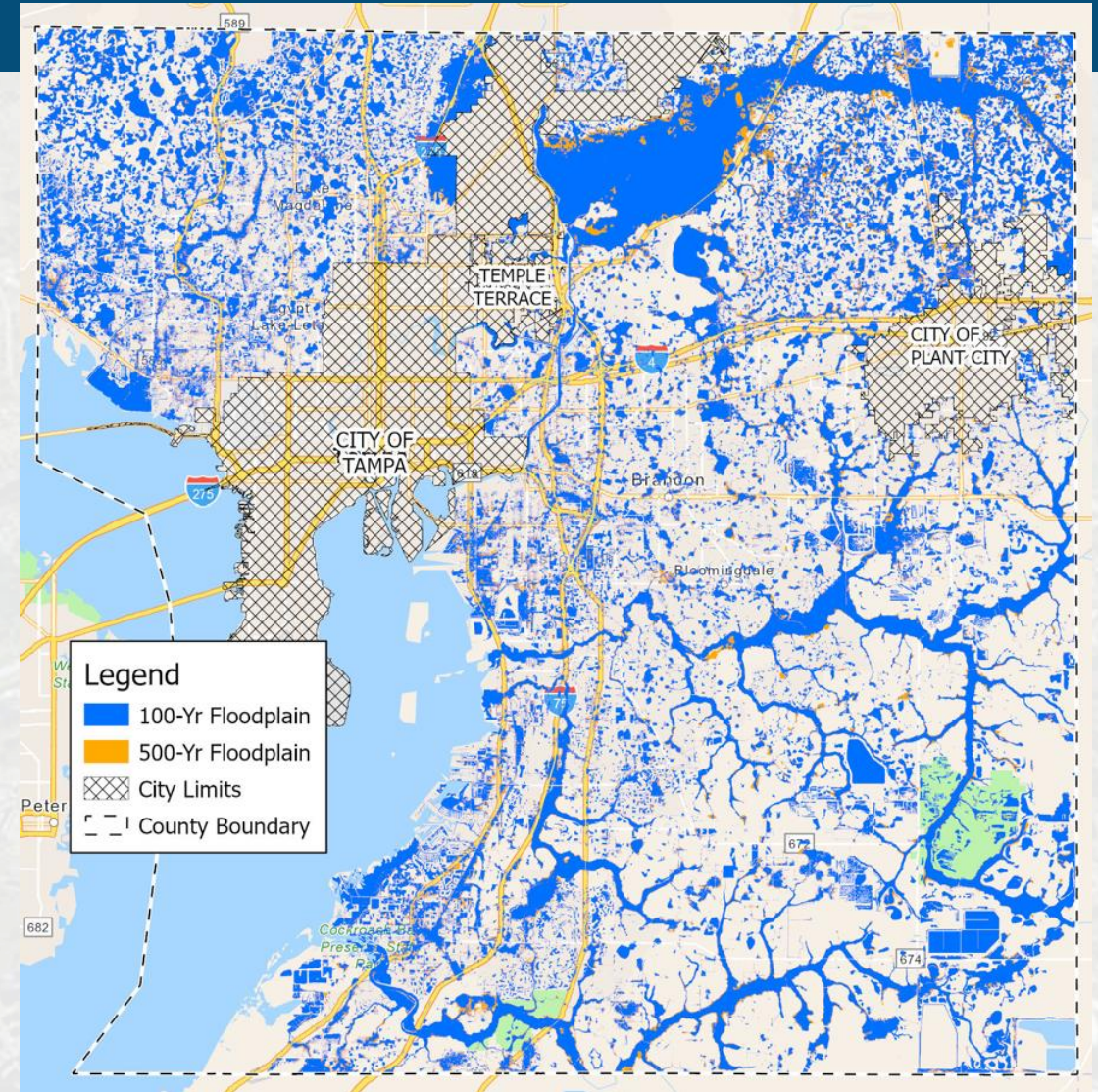
Hillsborough
County Florida

Agenda

- 1. Geography & Flood Risk**
- 2. Development Regulations**
- 3. Actions to Improve Resiliency**
- 4. Response to Independent Stormwater Study**
- 5. Next Steps**

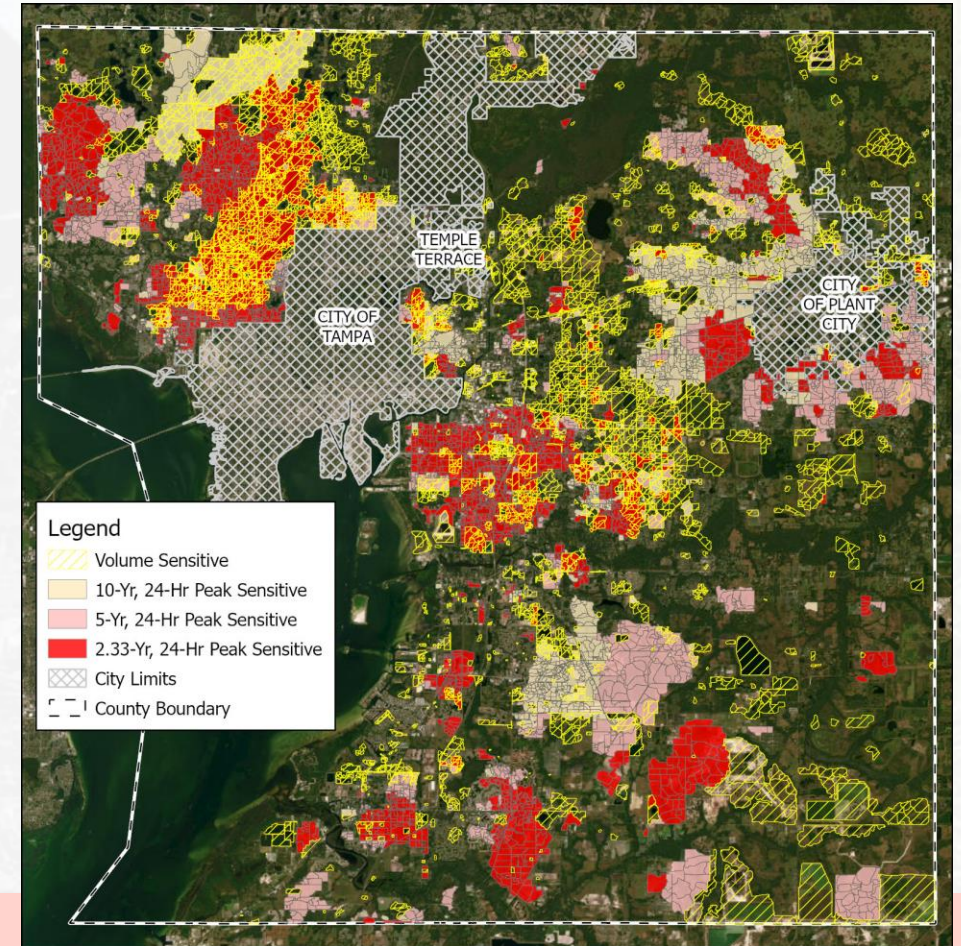
Unincorporated County **Flood Risk**

- **914 square miles** within Unincorporated County
- **300 square miles (33%)** within the **100-year** floodplain
- **336 square miles (37%)** within the **500-year** floodplain



County Peak and Volume Sensitive Basins

- **262 square miles** Peak Sensitive
 - Susceptible to flooding during high-intensity rainfall
- **202 square miles** Volume Sensitive
 - Susceptible to flooding during repetitive or long-duration rainfall



Stormwater **Assets**



17 Watersheds
(1,354 sq. miles)



360,000 Parcels
Served



1,313 Miles
of Pipe



1,345 Miles
of Ditch



41,145 Drainage
Structures



2,099 Ponds



40 Pump
Stations

Stormwater Management Program

Background

- Established in 1989 by **Ordinance No. 89-27**
- Maintain drainage infrastructure to provide conveyance, storage, and treatment within public right of way and easements
- Fund flood protection projects to reduce levels of roadway flooding

Private Property Flood Risk Mitigation

- Establishment of stormwater regulations for new development beginning in 1982
- Private Flood Insurance

County Stormwater Infrastructure



Primary purpose is to reduce roadway flooding

Current targets for flooding level of service (LOS) by roadway classification:

- Evacuation Routes
(LOS A - 100 Year, 0" Depth)
- Arterial/Collector Roads
(LOS B – 50 Year, 4" Depth)
- Local Roads
(LOS C – 25 Year, 4" Depth)

Stormwater Roadway Level of Service (LOS)



Stormwater Management Program

Private Property Risk Mitigation

- Community outreach to inform residents of flood risk
- Provide County residents with 25% discount on NFIP Flood Insurance through FEMA **Community Rating System**
- Require new developments to meet current stormwater regulations, design standards



25%

**NFIP Flood
Insurance
Discount**



Development Prior to Stormwater Regulations



Significant development occurred in the unincorporated County prior to the **1982 adoption** of stormwater regulations

Data Utilized in Analysis:
Impervious Area Coverage and ERP Boundaries

51%

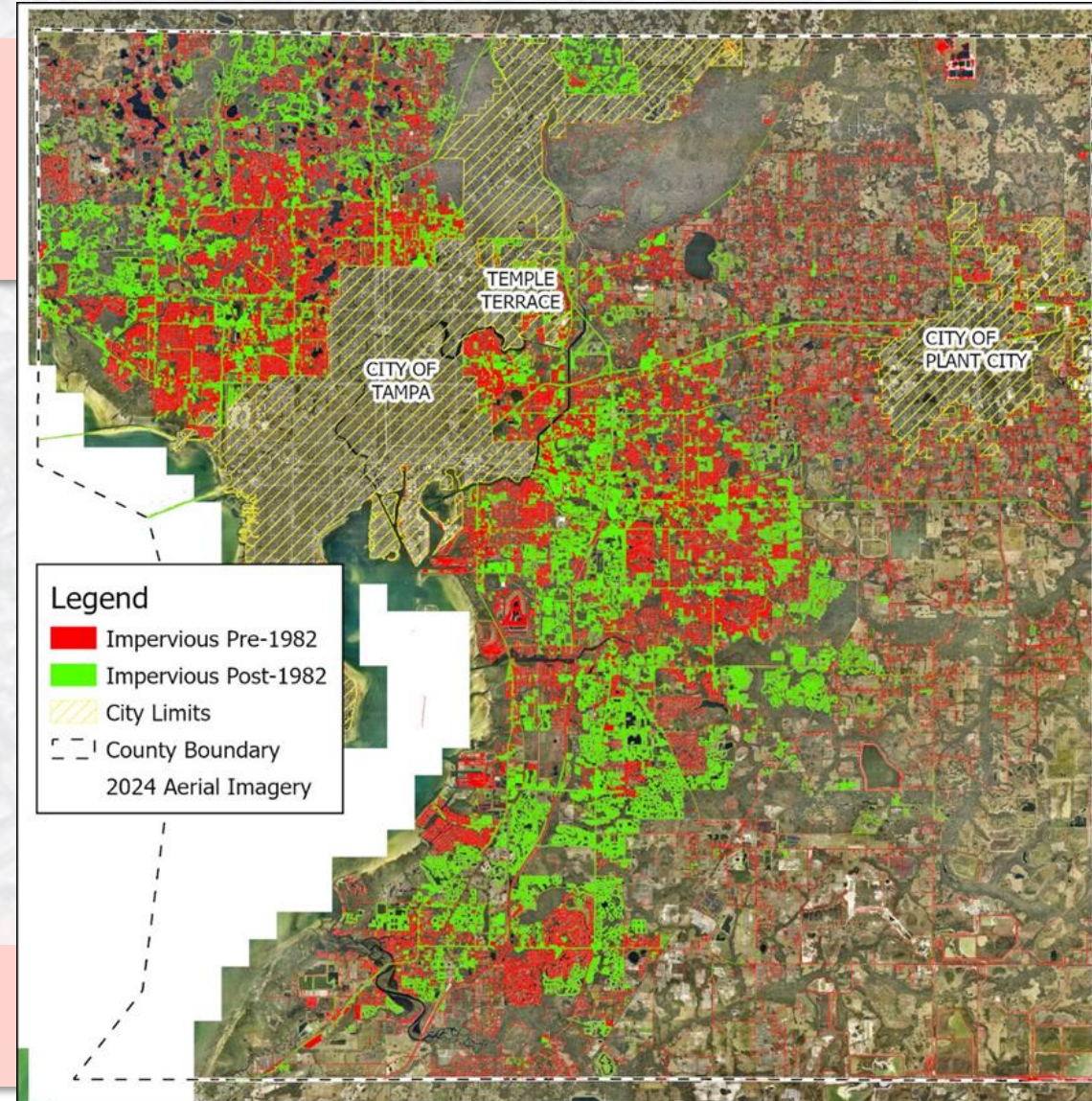
*Pre-Regulation
Development*

49%

*Post-Regulation
Development*



Florida was the first state to adopt rules requiring new development to manage stormwater (effective 1982)



Stormwater Regulations for **Development**



Current stormwater regulations aim to reasonably ensure flood impacts do not occur up to the **25-year design** storm event (or, for select areas, the **100-year design** storm event)

Additional requirements outlined in the
Stormwater Management Technical Manual:

Compensatory
floodplain storage
"Cup for Cup"

Peak and volume
sensitive basins
requirements

72-hour recovery
of stormwater
ponds

Hillsborough County and SWFWMD ensure stormwater requirements for new development (public and private) are met

SOUTHWEST FLORIDA WATER MANAGEMENT
DISTRICT

ENVIRONMENTAL RESOURCE PERMIT
APPLICANT'S HANDBOOK
VOLUME II

DESIGN REQUIREMENTS FOR
STORMWATER TREATMENT AND MANAGEMENT SYSTEMS
WATER QUALITY AND WATER QUANTITY

FOR USE WITHIN THE GEOGRAPHIC LIMITS OF THE SOUTHWEST FLORIDA
WATER MANAGEMENT DISTRICT

EFFECTIVE June 1, 2018



Volume II is incorporated by reference in 40D-1.660, F.A.C.

Public Works Department



**Stormwater Management
Technical Manual**

October 2023

HCFLGov.net

Actions to Improve Resilience



Enhance System Maintenance



Staffing and Resources



System Recovery and Enhanced Activity



Pump Station Restoration

Actions to Improve Resilience

From October 1, 2024 – June 30, 2025

81 Miles of Pipes Cleaned



165 Miles of Ditches Cleaned



16 Miles of Tree Trimming



921 Trees Removed



4,353 Inlets Cleaned



**600+ Inspections of Maintenance
and Flooding Concerns**



Actions to Improve Resilience

Pump Stations

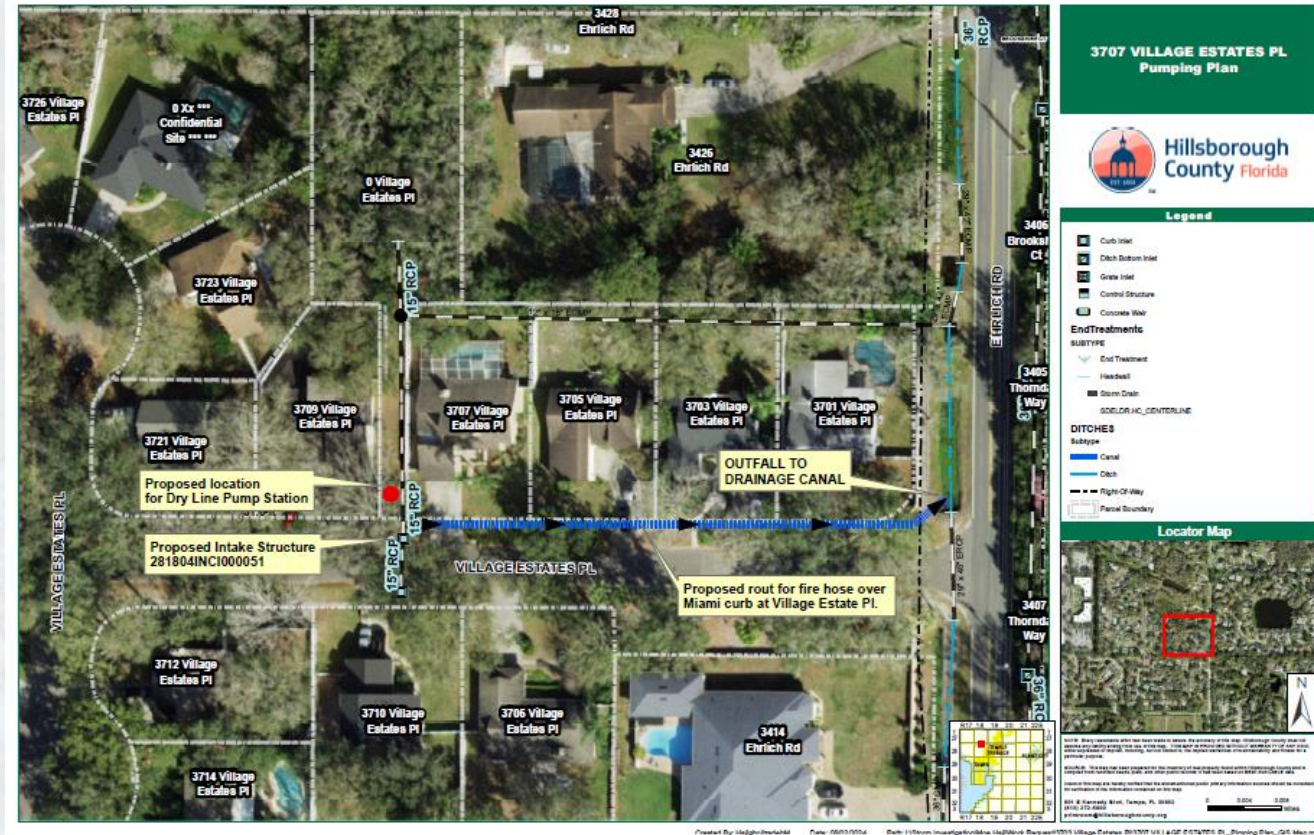
- Rebuilt **3** stations
- Rebuilt control panels at **6** stations
- Rebuilt & replaced pumps at **3** locations
- Completed inspections & maintenance of all **40** pump stations
- Hired dedicated industrial electrician



Actions to Improve Resilience

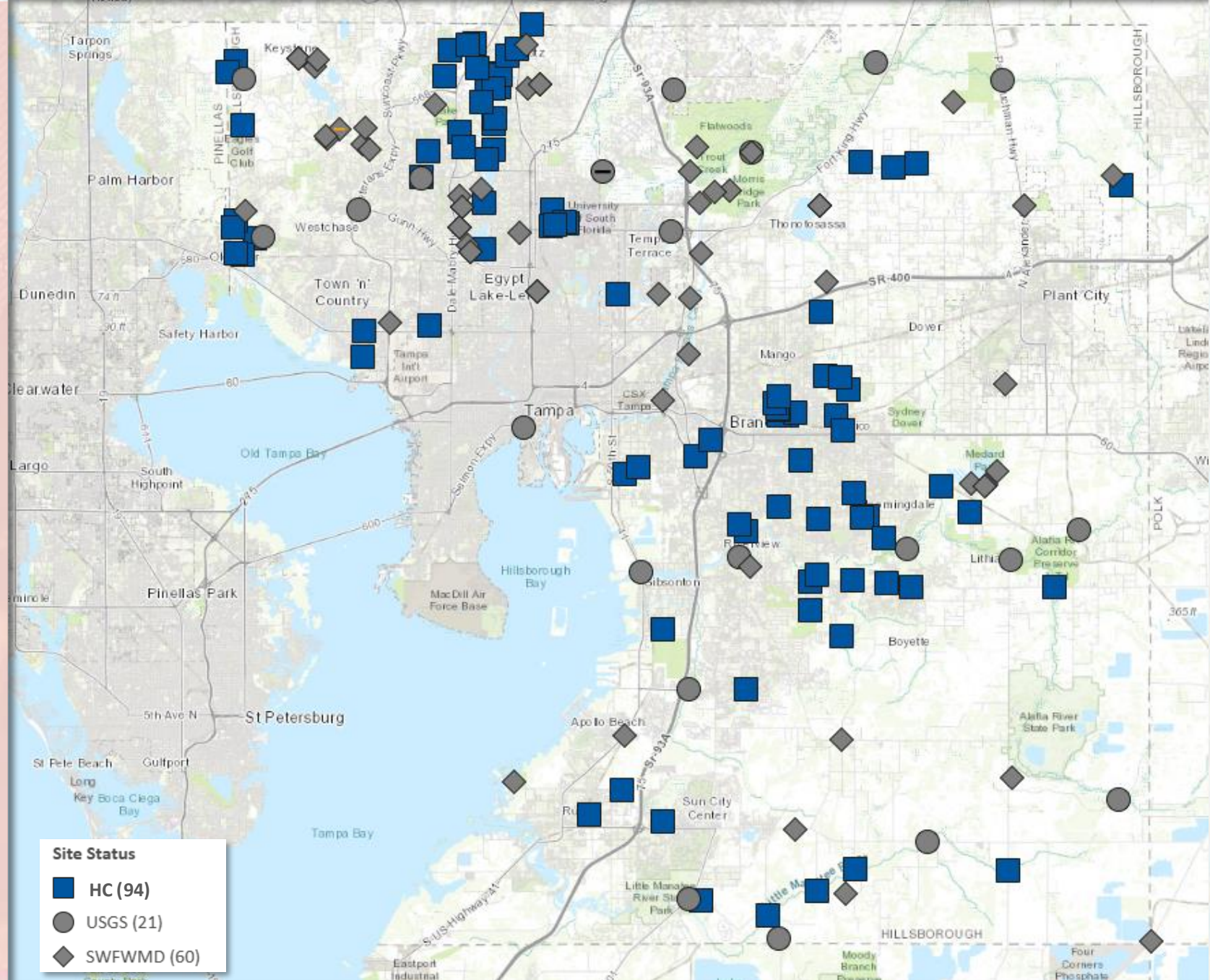
Portable Pumping

- Updated portable pumping plans
- 31 trailer-mounted pumps ready for deployment as needed
 - Rental agreements in place for deployment as needed

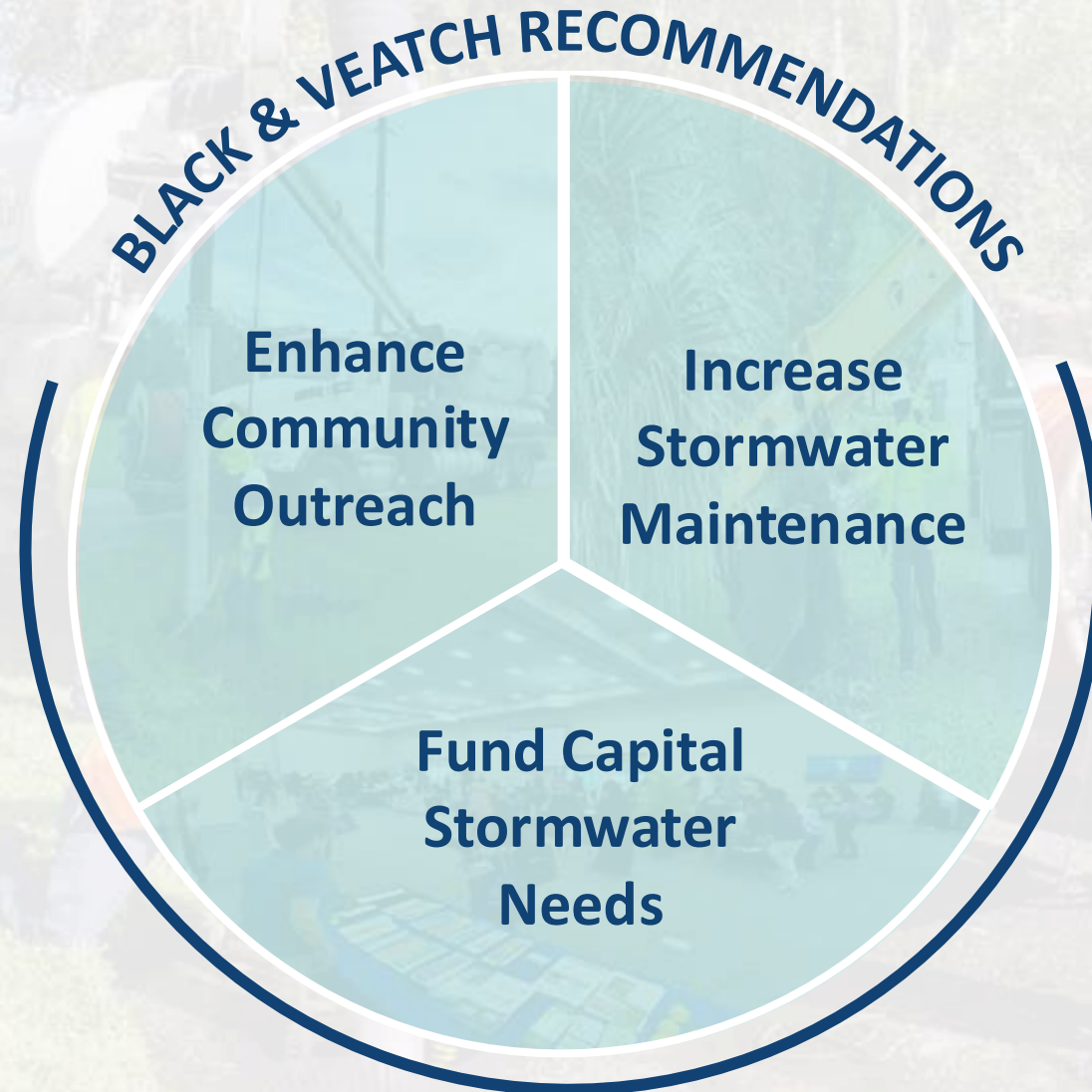


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Remote Water Level and Rainfall
Monitoring Stations have been
installed in the Hillsborough County,
providing the County real-time data



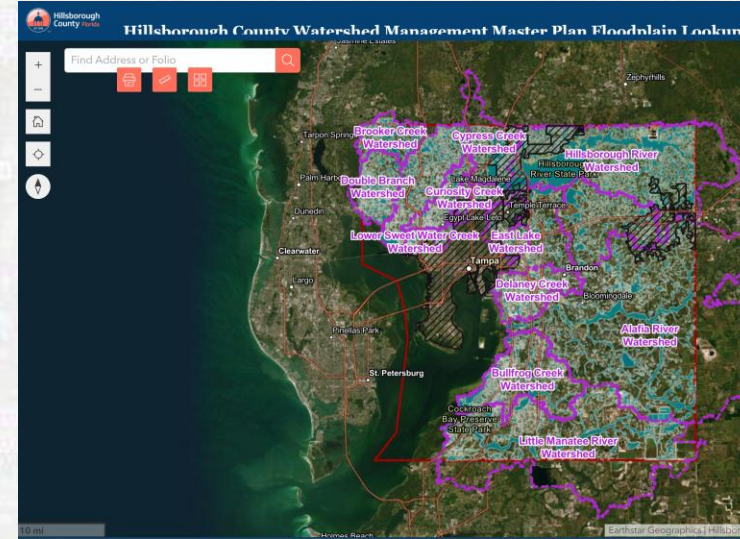
Recommendations from Independent Analysis



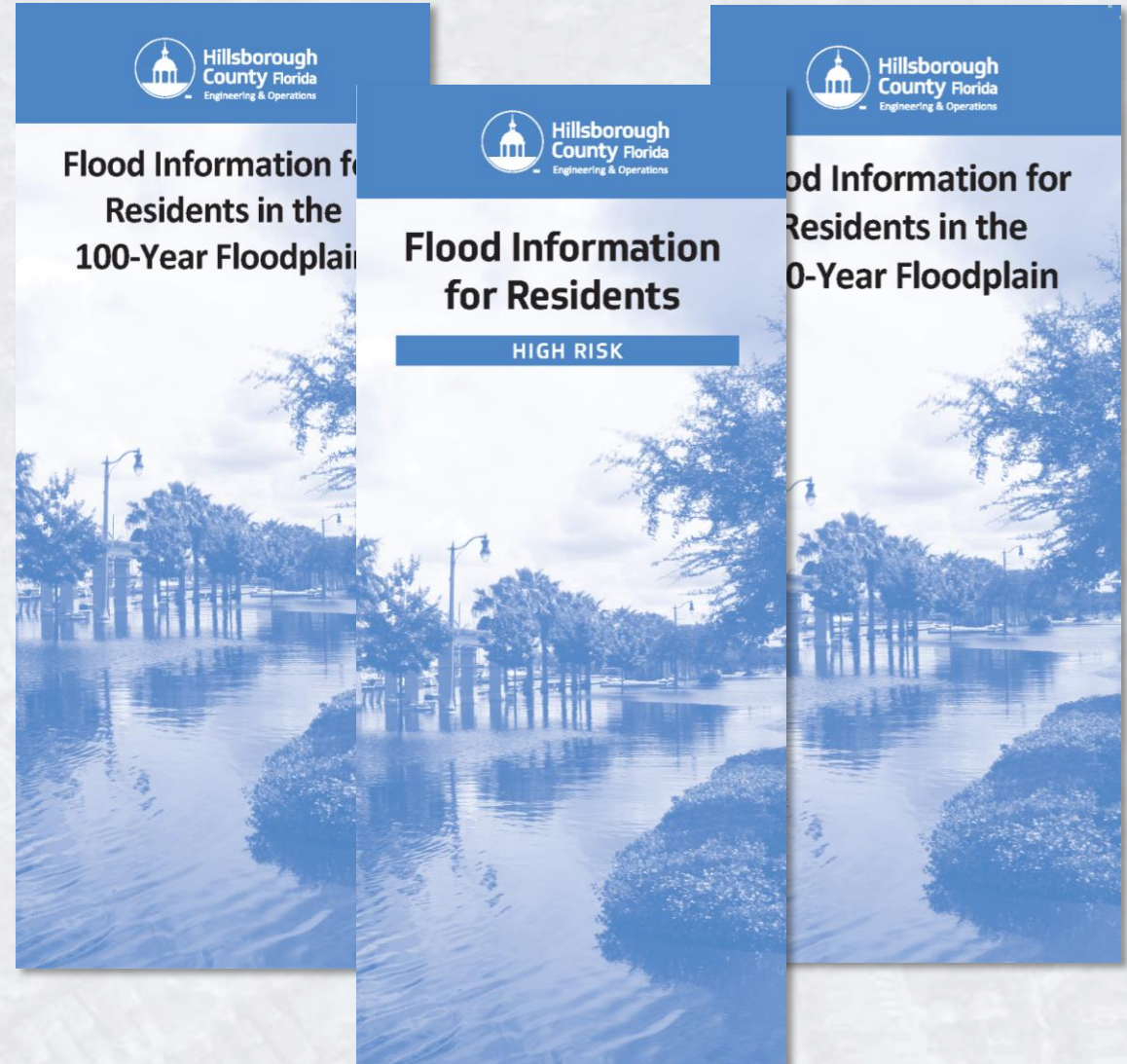
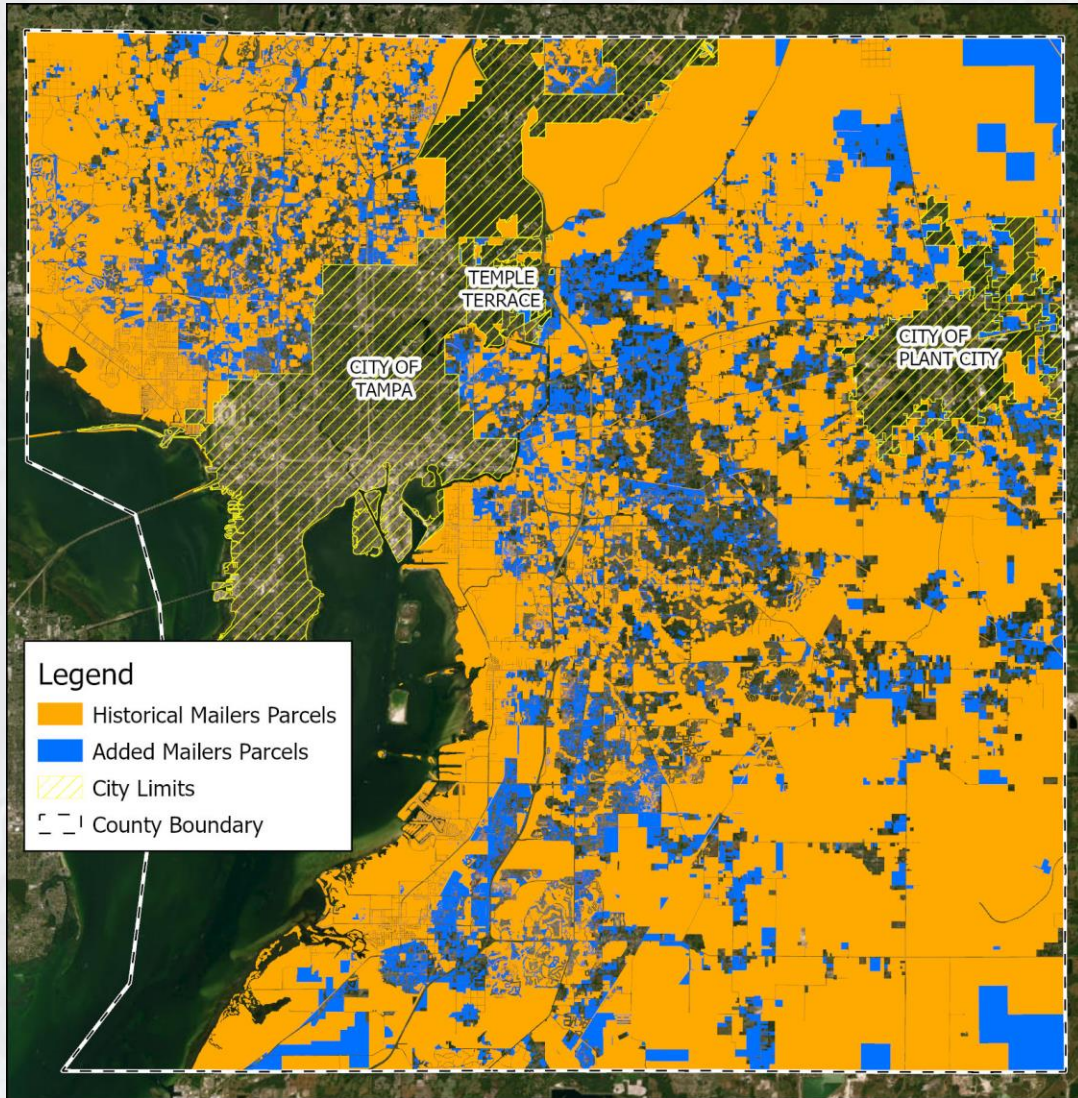
Black & Veatch Recommendations

Enhance Community Outreach

- Expanding flood risk notification
- New County floodplain model web viewer for residents
- Floodplain program for public information – coordinating with outside agencies and communities to provide information
- Continuing to invest in model updates, publishing latest data, and coordinating with FEMA on flood map updates



Enhance **Community Outreach**



Black & Veatch Recommendations

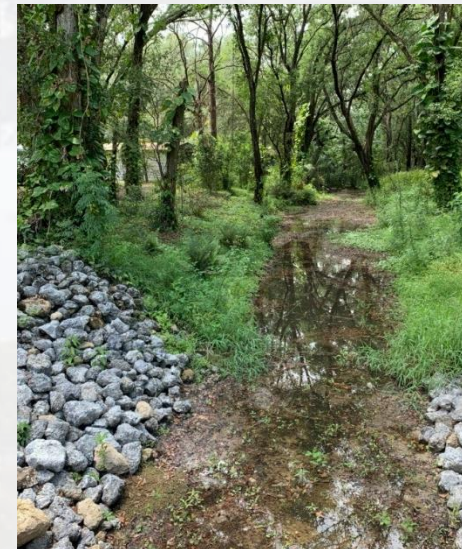
Increase Stormwater Maintenance

Increase **frequency** and **level of service** through additional contracted maintenance

- Rate Study currently underway, will provide options for the Board to consider
- Funded through Stormwater Annual Assessment

Challenges with Off-System Infrastructure

- Private ownership
- Limited accessibility
- Natural systems have permitting and environmental limitations
- Limited systemwide public benefit versus individual property owners



Black & Veatch Recommendations

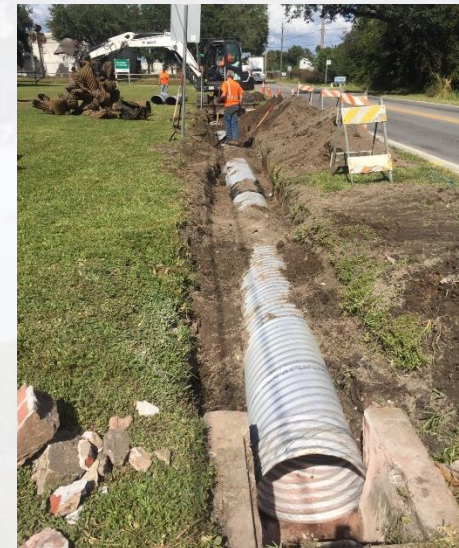
Fund Capital Stormwater Needs

Prioritize **Asset Preservation & Neighborhood Drainage Improvements**.

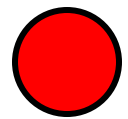
- Increase capital maintenance projects
- Funded through annual stormwater assessment
- Additional \$10M general fund budgeted for FY26
(50% increase)
- Consider special assessments / private funding

Regional **Large-Scale Capital Projects**

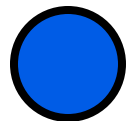
- Utilize renewed CIT revenue
- Pursue state & federal grants
- More than \$40M identified for potential CDBG-DR



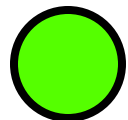
Stormwater Project Needs as of July 2025



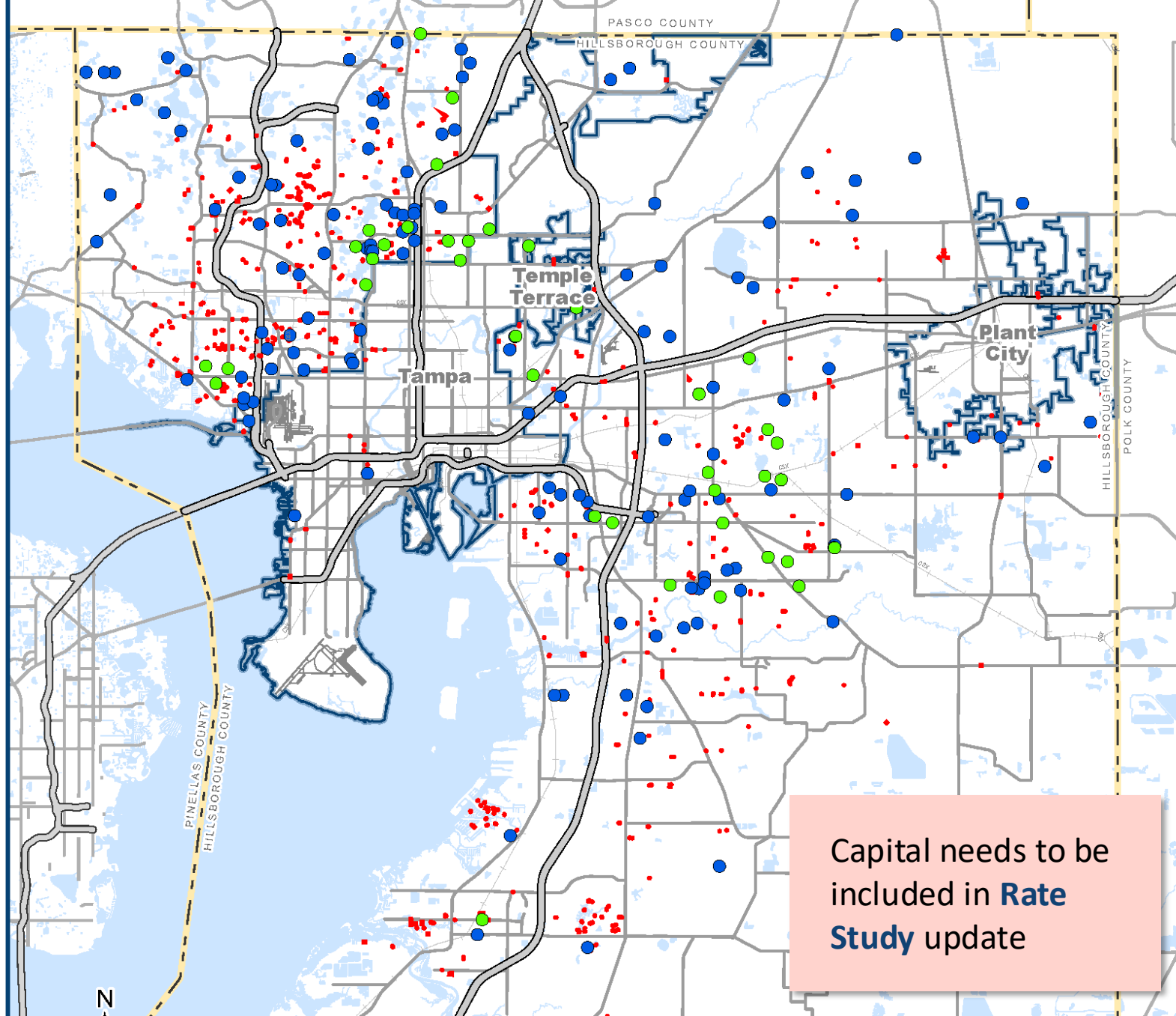
470 Culvert Renewal & Replacement Program (CRRP) Projects



132 Stormwater Drainage Improvement Projects



Pump Station Repairs & Renewal



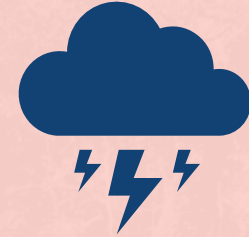
Next Steps



**Completion of Study for
Stormwater Rate
Assessment**



**Identify Ownership
of Critical Drainage
Systems**



**Real-time Flood
Forecasting**



**Continue Pursuit of
Grant Funding**



**Consider Regulatory
Adjustments**



**Develop Regional
and Neighborhood
Flood Protection**

Questions?



Hillsborough
County Florida