

Public Works Department

**Orange County
Vision Zero Initiative**

Discussion Item

June 20, 2023



Staff Recognition

- **Bike/Walk Central Florida has awarded to Cristina Cruz the BWCF Wheel of Achievement award in the Outstanding Bike/Ped Advocacy: Champion category**
- **Cristina has been a fearless champion and advocate for the safety of vulnerable road users, playing an important role in making streets safer, more accessible, and equitable for all**



June 15, 2023



Presentation Outline

- **Purpose**
- **Background**
- **Organizational Approach**
- **Action Plan**
- **Next Steps**
- **Summary**





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Purpose

- **Vision Zero will integrate all countywide transportation programs and projects; by implementing proven safety countermeasures to eliminate fatalities and severe injuries by 2040**
- **Public Works and MetroPlan Orlando have joined forces to begin the development of the Orange County Vision Zero Action Plan, which is funded by a grant from the Bipartisan Infrastructure Law**
- **Public Works has identified corridor and areawide safety projects to be funded in the FY 23/24 CIP and from the Accelerated Transportation Safety Program**



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Background

▪ Orange County Vision Zero Resolution

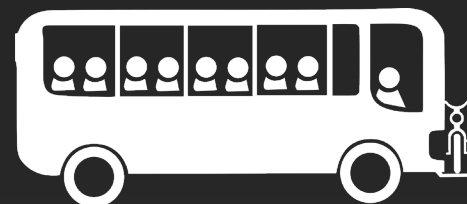
– Approved on August 9, 2022

– Goal of eliminating traffic deaths and serious injuries by 2040

– Prioritizes vehicle, bicycle, and pedestrian roadway safety, ADA accessibility, and resilience through technology retrofits

– Promotes safety programs and projects focused on infrastructure, human behavior, responsible oversight of the vehicle, and emergency response

– Directs staff to create a Vision Zero Action Plan





Background

- **Traffic Fatalities and Severe Injuries are a Nationwide Epidemic**
 - Each year, more than 40,000 people are needlessly killed on American streets
 - Society has considered traffic deaths and severe injuries to be inevitable side effects of modern life
 - Loss of life creates a tragic toll, extending beyond personal loss
- **Vision Zero focuses on eliminating fatalities and incapacitating injuries**





Background

- Safety isn't new in our transportation programs and projects
 - Walk Ride Thrive
 - ADA Transition Plan Phase I
 - Pedestrian and Bicycle Safety Action Plan
 - Intersection Safety Retrofits
 - Roadway Concept Analysis



727.520.8181
www.aerophoto.com

Oakridge Road Pedestrian Safety
Improvements Y22711IFB

Image # 03
Date 05.25.23



Background

■ Vision Zero is...

- a strategy to eliminate traffic fatalities and severe injuries, while providing safe, healthy, equitable mobility for all
- a human-centered approach with the ethical belief that no one should be killed or seriously injured in traffic crashes
- built on the Safe System approach to safety
- a multidisciplinary approach, bringing together planners, designers, and policy makers to focus on human mistakes and vulnerabilities, providing a safe transportation system with many redundancies in place





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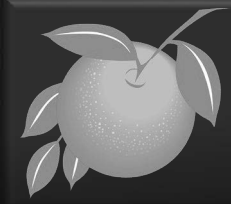




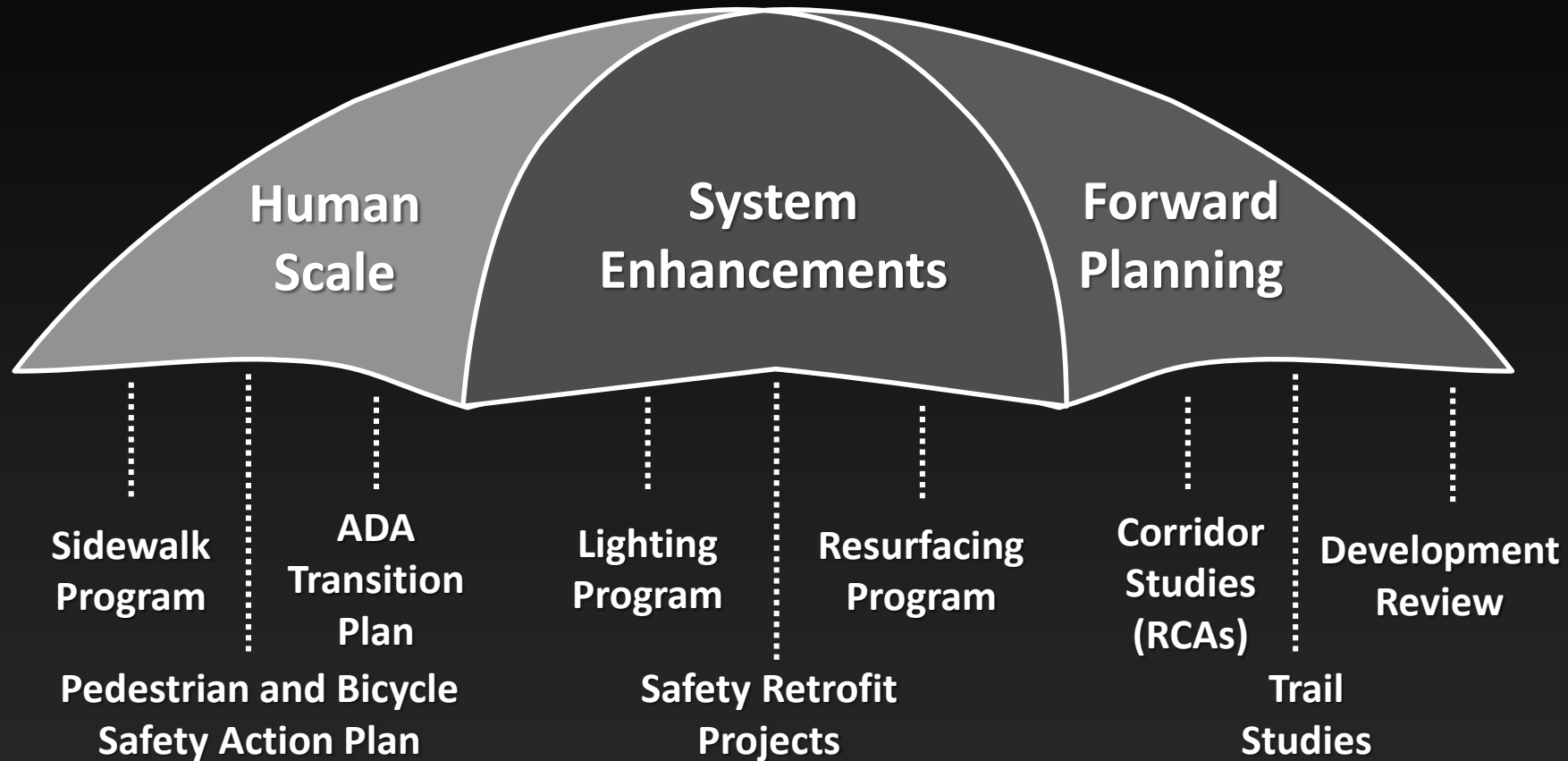
Organizational Approach

- **Vision Zero integrates a “Safety First” approach**
 - Designation of the Public Works Department as the Vision Zero champion
 - Evaluation of current transportation programs and projects countywide to align under the “Vision Zero Umbrella”
 - Development of policies, guidelines and methodologies for implementation
 - Consideration of short, medium, and long-term safety countermeasures
 - Involvement, collaboration, and accountability among diverse groups of stakeholders and partners across the County

Safe, accessible, reliable, sustainable and equitable transportation system



Organizational Approach



The goal is to integrate safety principles during the implementation of transportation programs Countywide



Organizational Approach

Human Scale

Sidewalk Program

Constructs missing or existing gaps in sidewalk, curb ramps; and removes above ground conflicts

Vision Zero focuses on transportation equity and connectivity

ADA Transition Plan

Constructs/ reconstructs sidewalks, curb ramps, midblock and trail crossings to comply with the ADA

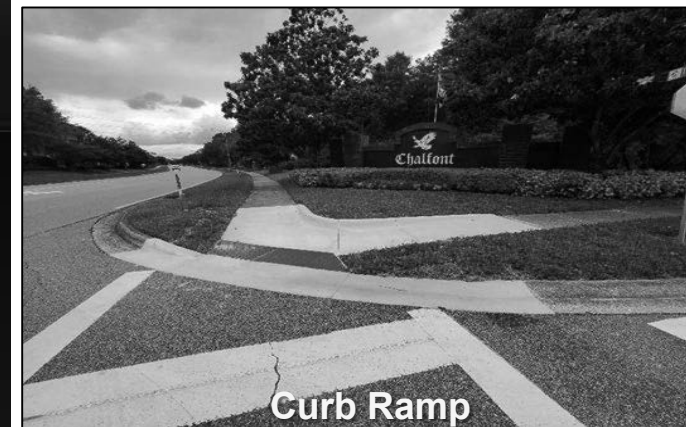
Vision Zero uses technology to assist people with disabilities

Pedestrian and Bicycle Safety Action Plan

Identifies a list of critical corridors for safety improvements

Vision Zero accommodates pedestrians and riders both on and off the road network

Proven FHWA Safety Countermeasures





Organizational Approach

System Enhancements

Lighting

Installs roadway lighting at major arterials and collectors where dark conditions create safety concerns for drivers

Vision Zero emphasizes the use of pedestrian-scale lighting

Resurfacing

Restores the pavement condition of the roadway

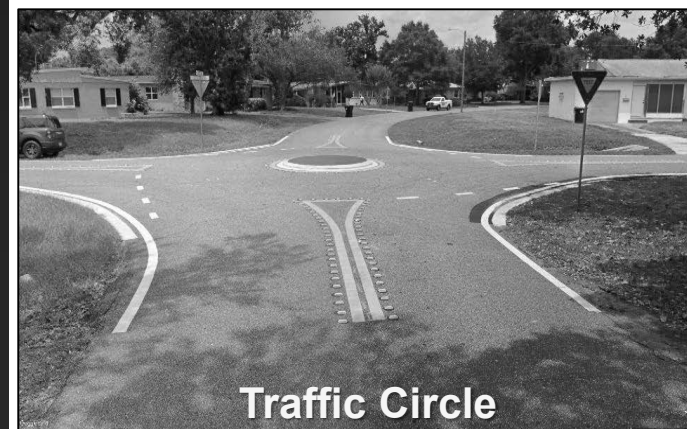
Vision Zero corrects safety deficiencies in a systemic manner

Safety Retrofit Projects

Reconstructs roadway infrastructure to reduce the number and severity of vehicle crashes

Vision Zero reduces the number of conflict points for all users

Proven FHWA Safety Countermeasures





Organizational Approach

Forward Planning

Corridor Studies (RCAs)

Evaluates short, mid and long-term safety features when adding capacity and operational improvements

Vision Zero promotes context-sensitive intersection designs

Development Review Process

Prioritize safety, comfort, and connectivity to destinations for all roadway users

Vision Zero identifies safety design features based on target speed

Trail Studies

Promotes the use of safe and inexpensive spaces for outdoor physical activity, commuting and recreation

Vision Zero promotes safe and ecological sustainable facilities

Proven FHWA Safety Countermeasures





Organizational Approach

- **We all have a responsibility to make our roadways safer for everyone**
- **A culture of safety becomes part of who we are**
 - “Every driver, passenger, and pedestrian should be certain that they're going to arrive at their destination safely, every time”
- **Stakeholders and partners**
 - Public Works, Planning and Development, Parks and Recreation, Sustainability and Health & Social Services
 - MetroPlan Orlando, Orange County Public Schools, Sheriff Office, FDOT, Bike-Walk Central Florida

Involvement, collaboration, and accountability



Presentation Outline

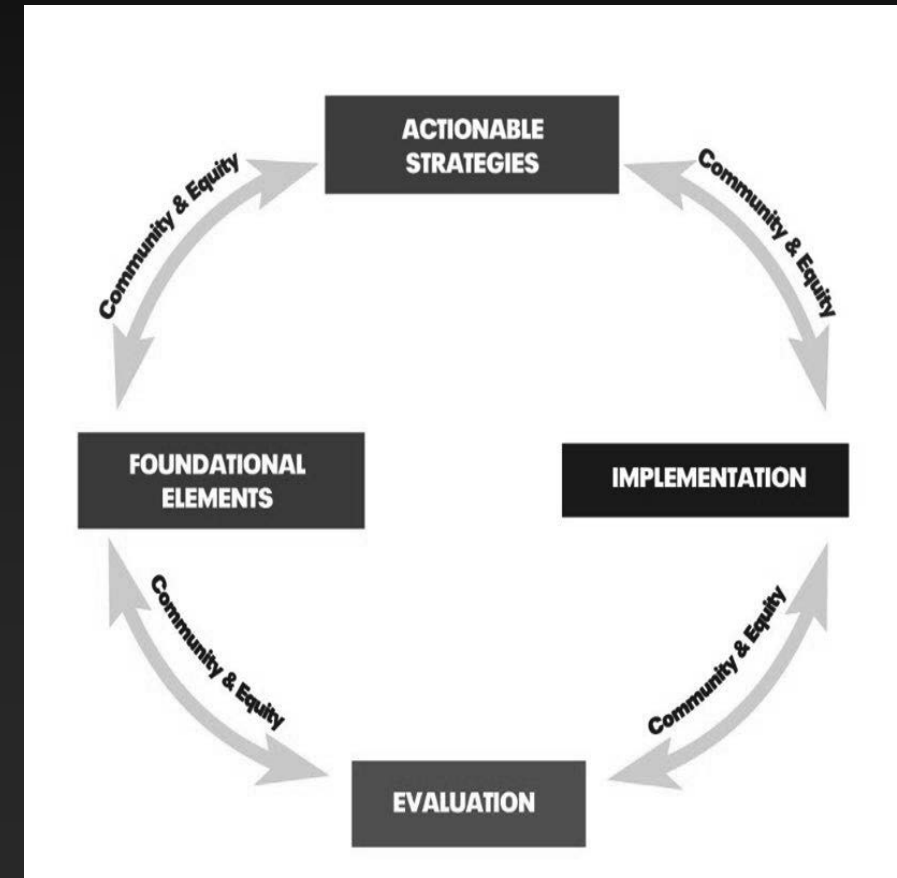
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Vision Zero Action Plan

- **Living document that implements strategies, evaluates progress and makes corrective actions as needed, while prioritizing equity**
 - Identifies champion and stakeholders
 - Sets measurable goals with a clear timelines for implementation
 - Builds a robust data framework
 - Ensures accountability and transparency
 - Provides recognitions through strong branding
 - Engages the community through education





Vision Zero Action Plan

- **Creates a framework and a comprehensive strategy for achieving Vision Zero goals**
- **Action Plan include the following elements:**
 - **Safe Speeds: speed management**
 - **Safe Streets: designing roads for safety first**
 - **Safety Culture: public education, campaigns and media**
 - **Safety Collaboration: partnerships**
 - **Equity: underserved communities**
- **Development of evaluation procedures and performance goals and metrics**



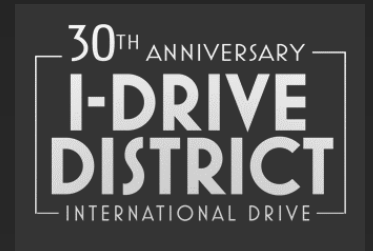
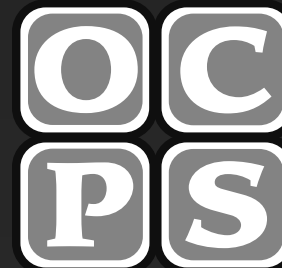
Strategies should be tailored to fit the needs and priorities of each community



Vision Zero Action Plan

Partnerships

- Creation of a Vision Zero task force to identify, select and implement safety improvements on the transportation network





Vision Zero Action Plan

Stakeholder and Public Engagement

- **Public workshops and stakeholder meetings will work in tandem to identify common goals, needs, challenges, and opportunities**





Vision Zero Action Plan

Branding and Communication

- Public education materials following adoption of Vision Zero Action Plan
- Vision Zero Logo
- Presentation template
- Infographics
- Scripts for communications and messaging





Vision Zero Action Plan

Safe Streets & Roads for All (SS4A) Grant

- Programs funds regional, local, and Tribal initiatives to prevent roadway deaths and serious injuries
- Allocates \$5 billion in appropriated funds over 5 years
- First round use for development of Vision Zero Action Plans
- Second round use for implementation of projects and strategies



Each of the three counties and 22 municipalities will have a tailored plan and one overall for the region



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Next Steps

- **Vision Zero Action Plan Development**
 - Develop scope, fee and schedule – July 2023
 - Select a Vision Zero Task Force group – August 2023
 - Begin campaign and marketing efforts – September 2023
 - Initiate staff training on the Safe Systems Approach – October 2023
 - Commence public workshops – November and December 2023
 - Present Action Plan at the Board work session – February 2024
 - Board approval of the Vision Zero Action Plan – May 2024



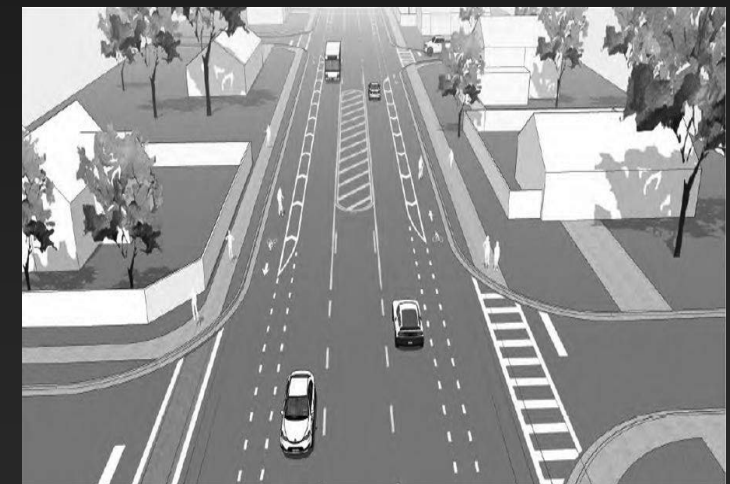
Next Steps

▪ Vision Zero FY 23/24 CIP Projects

- Corridor Studies – Clarcona-Ocoee Road, Curry Ford Road, Town Center Blvd, Seidel Road
- Signal Projects – Village Lake Road PHB, Turkey Lake Road
- Road Diet Projects – Rio Grande Avenue Phase 2
- Areawide Projects – Tangerine Rural Settlement, Horizons West (Tattant Boulevard/Overstreet Road)

▪ Design phase – FY 23/24 - \$1.5M

- Orange County and MetroPlan Orlando will apply for the SS4A Grant Phase II to leverage funding for design and construction costs



Between Gore Street & I-4



Next Steps

- **Accelerated Transportation Safety Program**

- Program centered around safety and transit
- Selected projects from the Transportation Report
- Short Term Implementation – 5-year schedule
- Encompass Vision Zero strategy

55%

45%

County

Transit

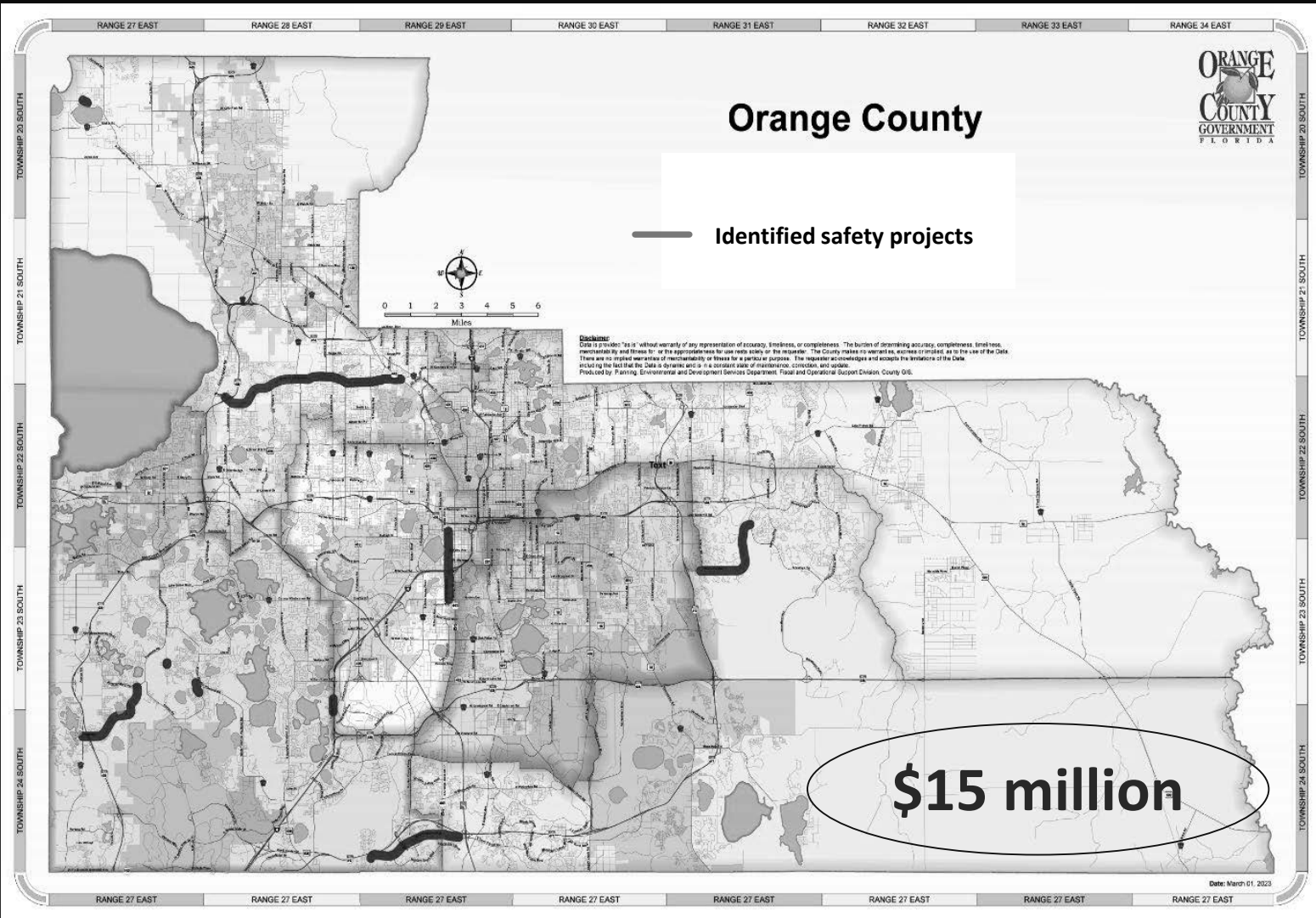
- **Program funding is \$100 Million from State Shared Sales Tax**

- \$55 million for lighting, sidewalk and safety projects
- \$45 million for enhanced operational frequency and bus stops/shelters

- **Although the sales tax initiative did not pass (estimated revenue of \$12 billion over 20 years), the transportation needs remain**



Next Steps



Accelerated Transportation Safety Program Projects

- Clarcona-Ocoee Road – Ocoee-Apopka Road to US 441 (7.5 miles)
- Curry Ford Road – Dean Road to Alafaya Trail (3.5 miles)
- Seidel Road Safety-Avalon Road to Summerlake Park Boulevard (3.4 miles)
- Town Center – Raintree Ridge Road to Courtney Chase Circle (3.3 miles)
- Village Lake Rd PHB Village Lake Rd south of Publix (midblock)
- Turkey Lake Road Signals – Walmart & Sand Lake Vista (2 signals)
- Rio Grande Avenue – Holden Avenue to Gore Street (2.5 miles)
- Tangerine Rural Settlement (4.0 miles)
- Horizon West Area for Tattant Boulevard & Overstreet Road (2.7 miles)



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Summary

- **Vision Zero Initiative will implement proven safety countermeasures to eliminate fatalities/severe injuries by 2040**
- **Projects will be funded from the Public Works CIP and the Accelerated Transportation Safety Program**
- **Transportation programs and projects countywide will be evaluated under the “Vision Zero Umbrella” culture**
- **Development of the OC Vision Zero Action Plan to create the framework and strategy for achieving the safety goals**
- **Allocation of funding for safety projects through CIP, state shared sales tax, and state & federal grants**