Better Bicycle, Pedestrian, and Complete Streets Planning

Leading By Example in Southwest Florida

FLAPA Conference 2017

Presenters

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Lee County MPO
Executive Director

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Cape Coral
Public Works Planning Manager

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Alta Planning + Design
Senior Planning Associate

Ned Baier
JACOBS
Senior Project Manager

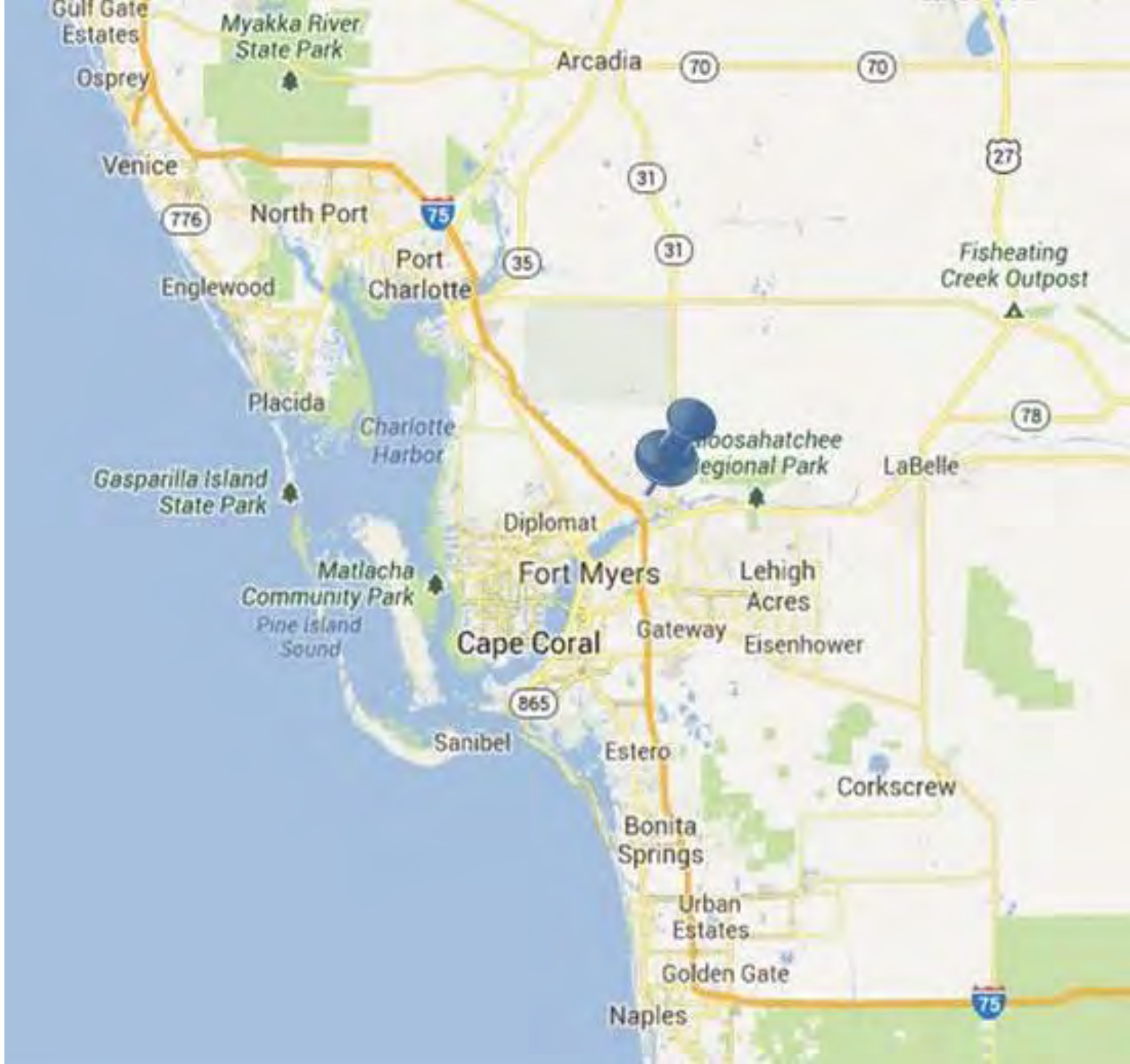
Lee County MPO Perspective

Topics to Cover

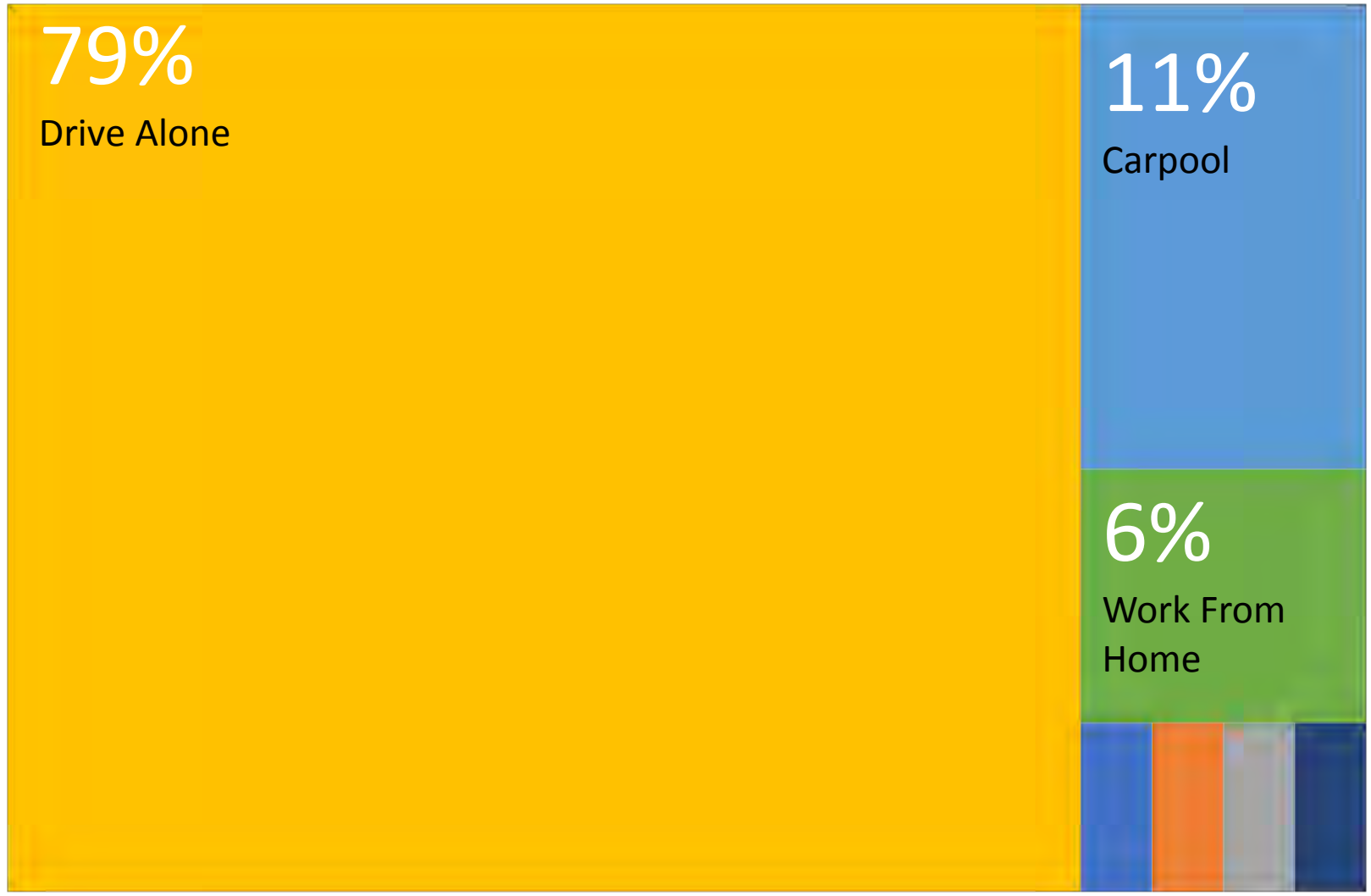
- Overview of Lee County
- Timeline of Events/Developing Plans
- Funding Improvements
- Issues Moving Forward
- Local Experience

Context

- Region Population **1,230,000**
- Lee Population 2016 **680,539**
- Lee County Visitors 2016 **4.8 million**
- Land Area **1,212 miles (408.3 miles of water)**
- Density **846 people/square mile**
- Largest City Population Cape Coral **180,304**
- Median Age **45 years**
- Average Commute Time **26 minutes**



Commute Mode Split



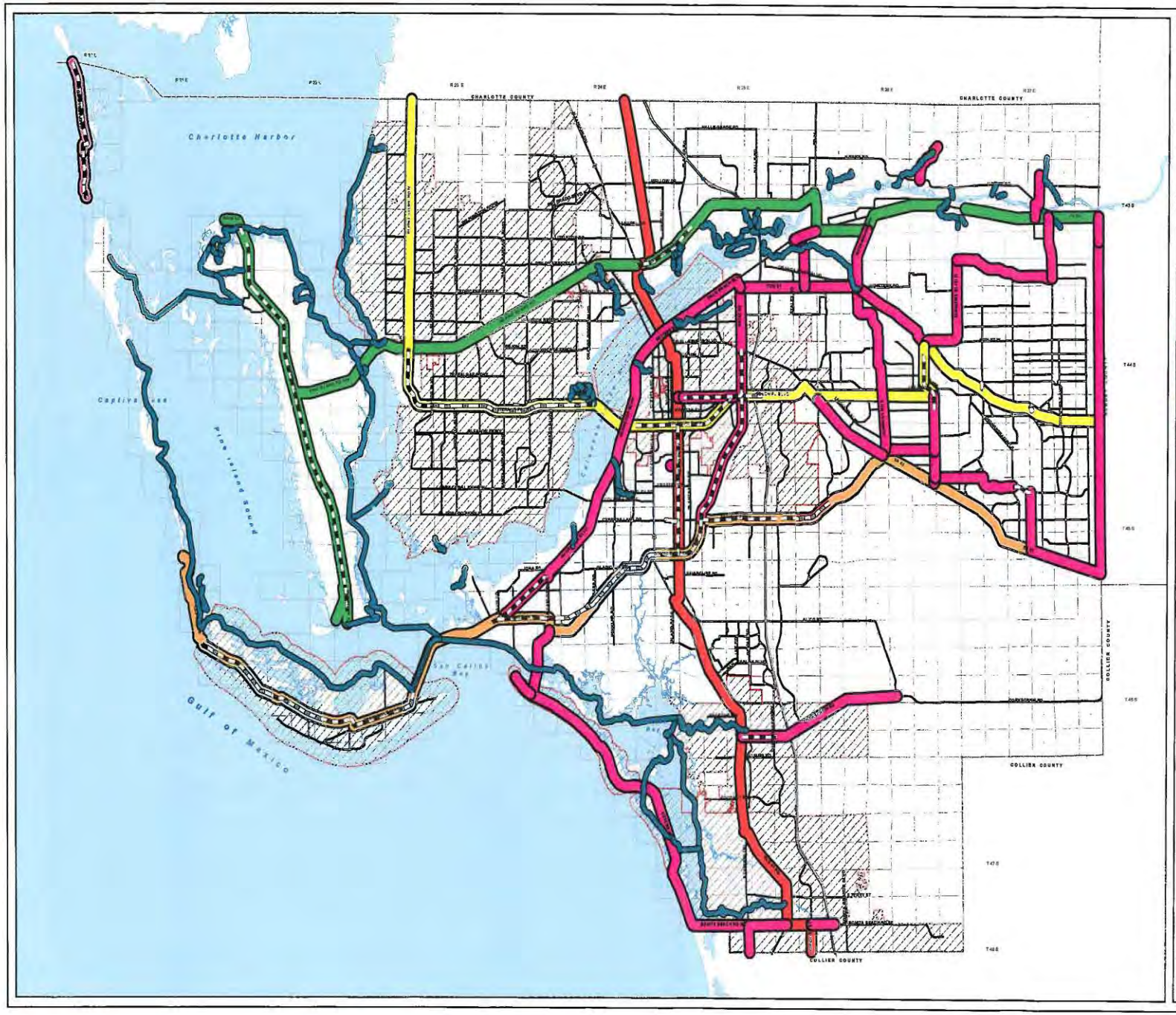
3%

Walk + Bike + Transit

Putting Things In Place

Complete Streets Resolutions/Actions

- Lee County MPO Resolution adopted **August 21, 2009**
- Lee County BOCC Resolution adopted **November 10, 2009**
- City of Fort Myers Resolution adopted on **October 3, 2011**
- City of Bonita **2014**
- City of Cape Coral **2015**



LEE COUNTY GREENWAYS MULTI-PURPOSE RECREATIONAL TRAILS MASTER PLAN

Proposed

- Completed Greenways
- Charlotte-Lee-Collier Trail
- Captiva-Hendry-Collier Trail
- Pine Island-Hendry Trail
- Charlotte-Lee-Hendry Trail
- Connector Trails
- Great Calusa Blueway
- City Limits

LEE COUNTY PARKS AND RECREATION
WWW.LEEPARKS.ORG

Lee County Southwest Florida

N W E S

1 0.5 0 1 2 3 4
Miles

Map Prepared by: Lee County DCD/Planning
Map Generated: January 2015/
City Limits current to date of map generation

Adopted May 16, 2007
Adopted by Ordinance No. 07-09

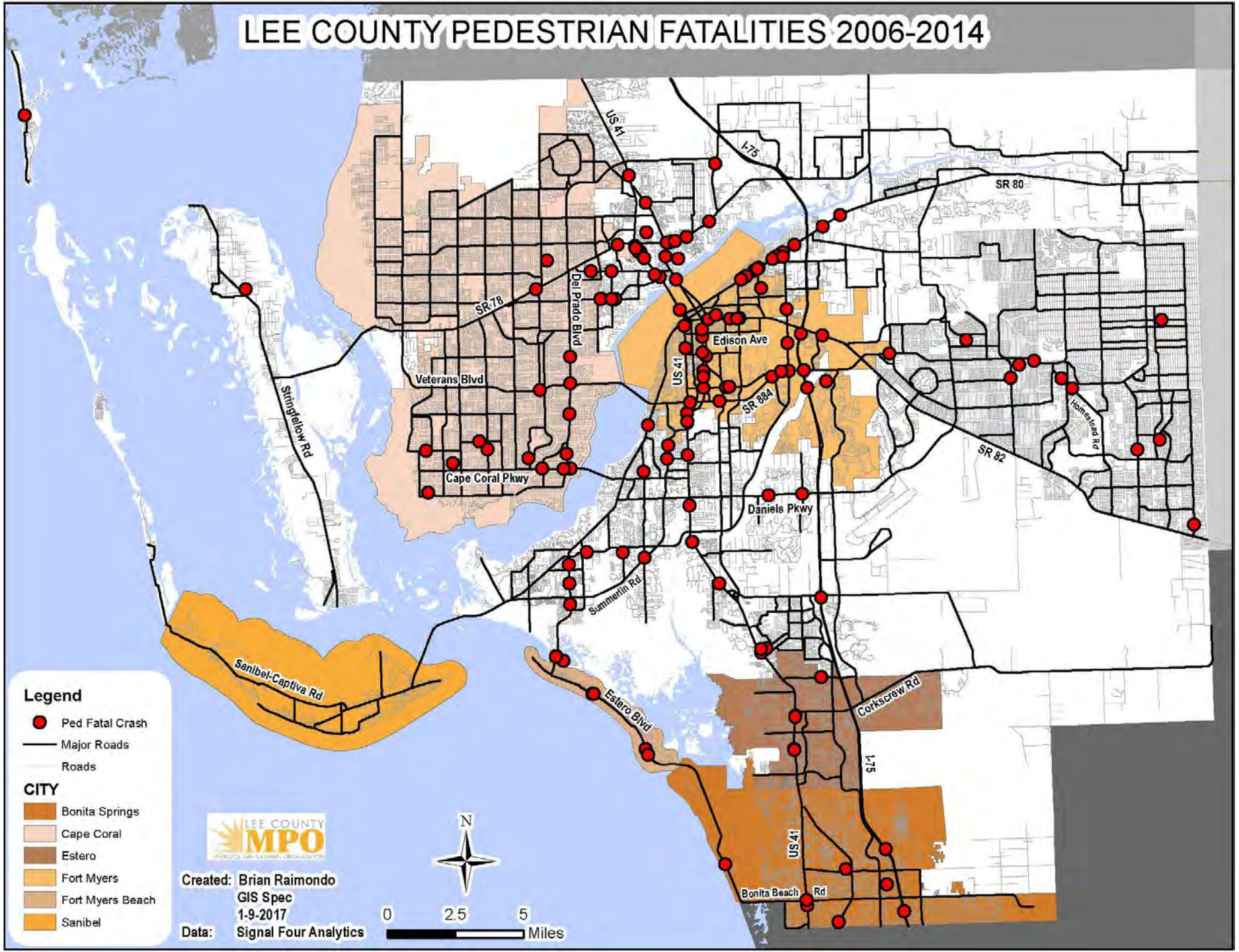
Amended by Ordinance No. 10-18
March 3, 2010
Effective June 2, 2010

Lee Plan Map 22

LEE COUNTY MPO

BICYCLE PEDESTRIAN MASTER PLAN

LEE COUNTY MPO
METROPOLITAN PLANNING ORGANIZATION


LEE COUNTY PEDESTRIAN FATALITIES 2006-2014
US 41
I-75
SR 80
SR 78
Del Prado Blvd
Edison Ave
Veterans Blvd
US 41
SR 884
Hamstead Rd
Stringfellow Rd
SR 82
Cape Coral Pkwy
Daniels Pkwy
Summerlin Rd
Sanibel-Captiva Rd
Estero Blvd
Corkscrew Rd
I-75
US 41
Bonita Beach Rd
Legend
Ped Fatal Crash
Major Roads
Roads
CITY
Bonita Springs
Cape Coral
Estero
Fort Myers
Fort Myers Beach
Sanibel
LEE COUNTY MPO
N
Created: Brian Raimondo
GIS Spec
1-9-2017
Data: Signal Four Analytics
0
2.5
5
Miles

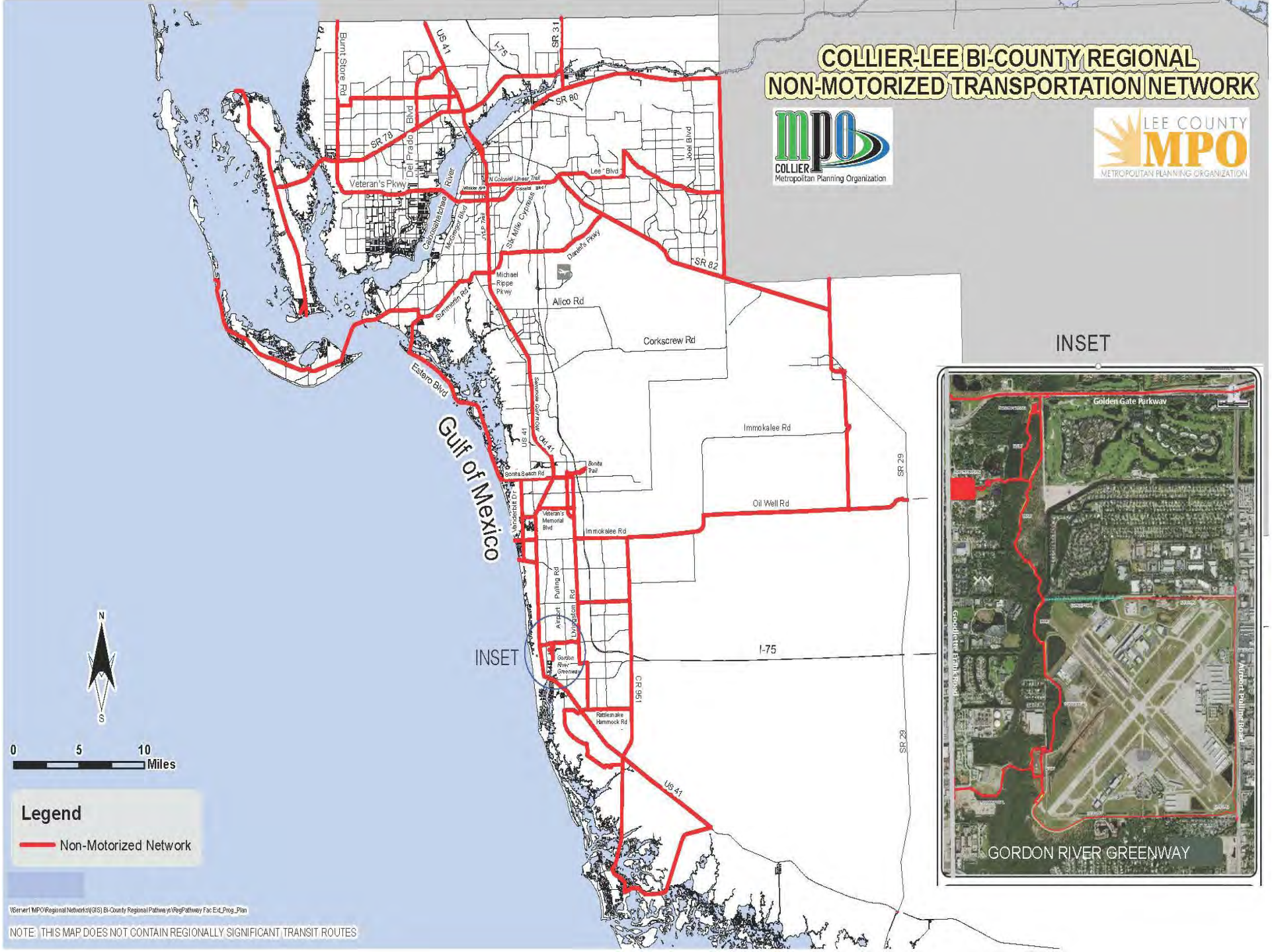
LEE COUNTYWIDE

Bicycle & Pedestrian SAFETY ACTION PLAN

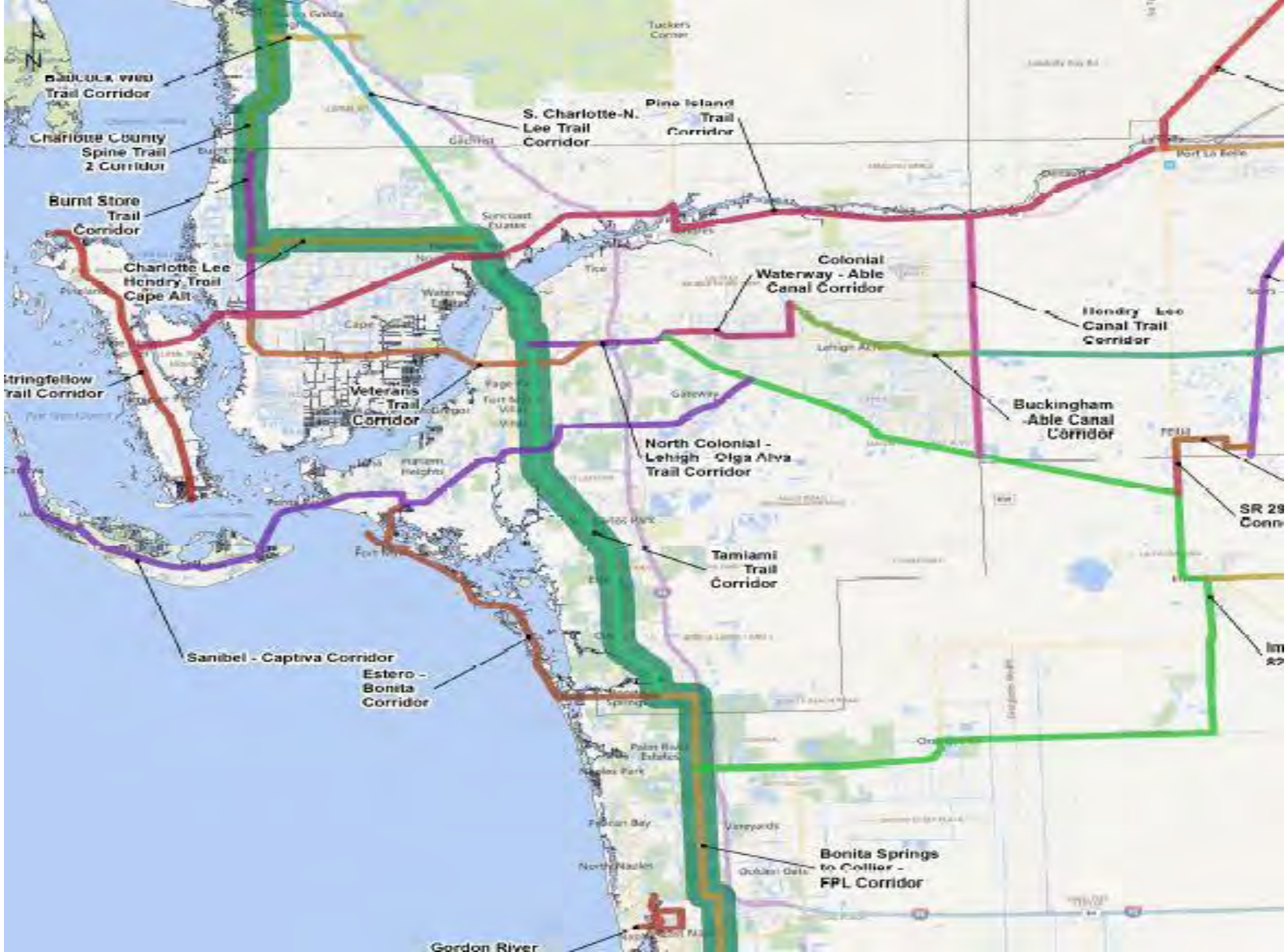
September 2013

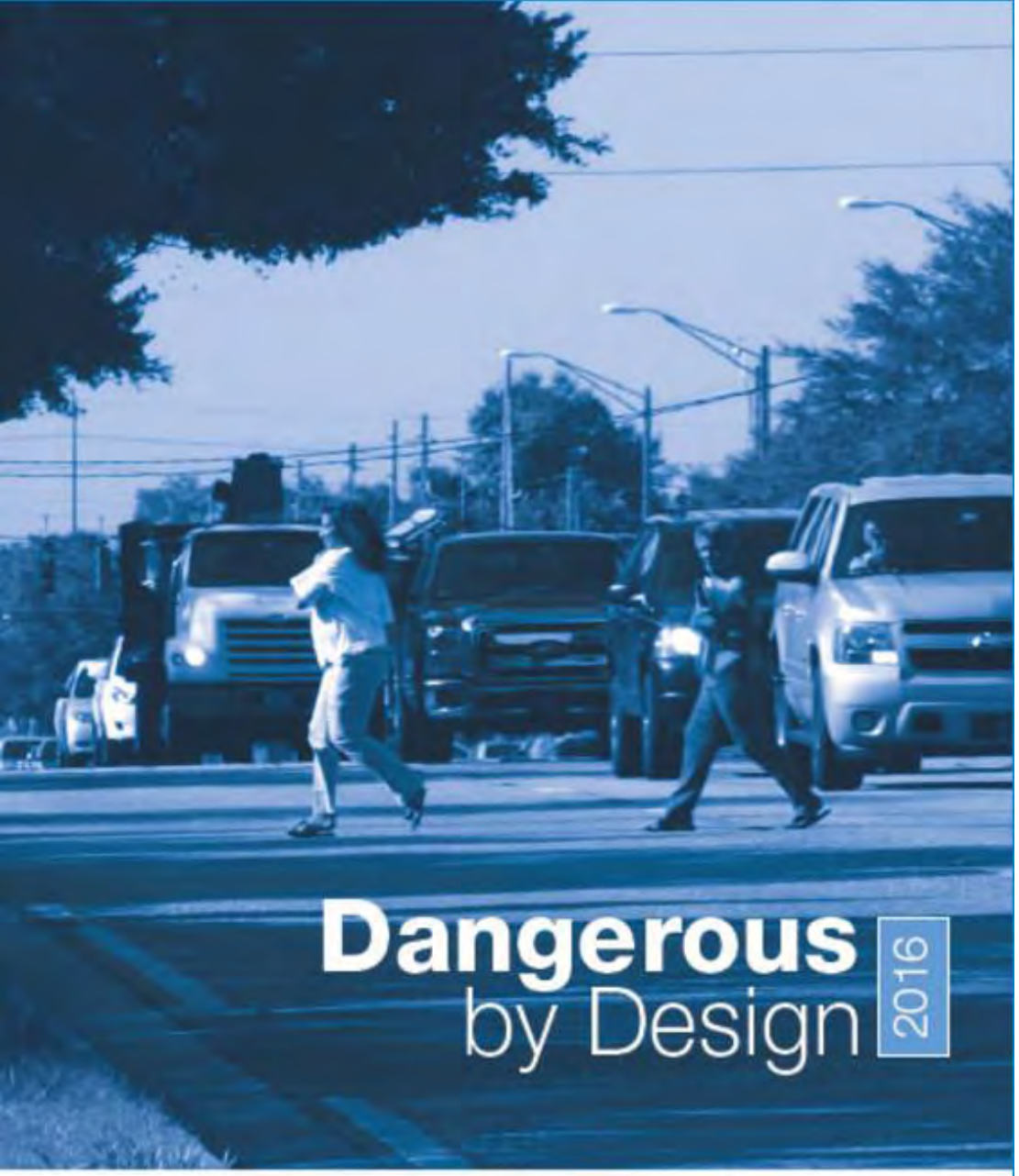
TIGER
2013 AWARDS
U.S. Department of Transportation
LEE COUNTY COMPLETE STREETS INITIATIVE
APPLICANT/SPONSOR: Lee County Metropolitan Planning Organization
TOTAL PROJECT COST: $13,210,918
GRANT FUNDING: $10,473,900
PROJECT DESCRIPTION
TIGER funds will be used to support bicycle and pedestrian transportation connections throughout Lee County. This project will complete three sections of the regional trail network: the Tour de Parks Loop, the University Loop, and the Bi-County Connector.
PROJECT HIGHLIGHTS
• Provides continuous, safe transportation paths that connect major employment centers, county residents and university students, and regional

COLLIER-LEE BI-COUNTY REGIONAL NON-MOTORIZED TRANSPORTATION NETWORK



INSET


Trail Corridor
Charlotte County Spine Trail 2 Corridor
Burnt Store Trail Corridor
Charlotte Lee Hendry Trail Cape Alt
Stringfellow Trail Corridor
S. Charlotte-N. Lee Trail Corridor
Pine Island Trail Corridor
Veterans Trail Corridor
Colonial Waterway - Able Canal Corridor
Hendry Lee Canal Trail Corridor
Buckingham -Able Canal Corridor
North Colonial - Lehigh Olga Alva Trail Corridor
Tamiami Trail Corridor
Sanibel - Captiva Corridor
Estero - Bonita Corridor
Bonita Springs to Collier - FPL Corridor
Gordon River



Dangerous by Design 2016

JANUARY 2017

Smart Growth America

National Complete Streets Coalition

TABLE 1

Metro area PDIs, 2016

2016 rank	Metro area	Pedestrian deaths (2005-2014)	Annual pedestrian fatalities per 100,000	2016 Pedestrian Danger Index
1	Cape Coral-Fort Myers, FL	165	2.55	283.1
2	Palm Bay-Melbourne-Titusville, FL	142	2.59	235.2
3	Orlando-Kissimmee-Sanford, FL	575	2.58	234.7
4	Jacksonville, FL	379	2.74	228.7
5	Deltona-Daytona Beach-Ormond Beach, FL	191	3.19	228.2
6	Lakeland-Winter Haven, FL	161	2.61	200.6
7	Tampa-St. Petersburg-Clearwater, FL	821	2.88	192.0
8	Jackson, MS	109	1.90	189.6
9	Memphis, TN-MS-AR	246	1.84	153.3
10	North Port-Sarasota-Bradenton, FL	150	2.08	148.2
11	Miami-Fort Lauderdale-West Palm Beach, FL	1,508	2.61	145.1
12	Bakersfield, CA	205	2.39	132.8
13	Birmingham-Hoover, AL	150	1.32	132.1
14	Little Rock-North Little Rock-Conway, AR	110	1.53	127.9
15	Houston-The Woodlands-Sugar Land, TX	1,026	1.65	127.2
16	Phoenix-Mesa-Scottsdale, AZ	814	1.88	125.1
17	Detroit-Warren-Dearborn, MI	693	1.61	124.2
18	Riverside-San Bernardino-Ontario, CA	858	1.97	123.4
19	Baton Rouge, LA	167	2.05	120.6
20	McAllen-Edinburg-Mission, TX	115	1.43	118.8
21	Las Vegas-Henderson-Paradise, NV	401	2.00	117.7
22	Augusta-Richmond County, GA-SC	119	2.07	114.8
23	Albuquerque, NM	194	2.16	113.6
24	Tulsa, OK	137	1.44	110.5
25	Dallas-Fort Worth-Arlington, TX	888	1.32	110.4
26	Atlanta-Sandy Springs-Roswell, GA	819	1.50	107.2
27	Raleigh, NC	165	1.39	106.7
28	San Antonio-New Braunfels, TX	421	1.88	104.5
29	Stockton-Lodi, CA	137	1.95	102.9
30	Modesto, CA	96	1.84	102.0
31	Greenville-Anderson-Mauldin, SC	162	1.92	101.2
32	Winston-Salem, NC	84	1.30	99.7
33	Charlotte-Concord-Gastonia, NC-SC	317	1.38	98.5
34	Louisville/Jefferson County, KY-IN	194	1.55	96.7

Twenty most dangerous metro areas based on PDI are highlighted in red; middle rankings are highlighted in blue; 20 least dangerous metro areas based on PDI are highlighted in green.

Complete Streets Resolutions/Actions

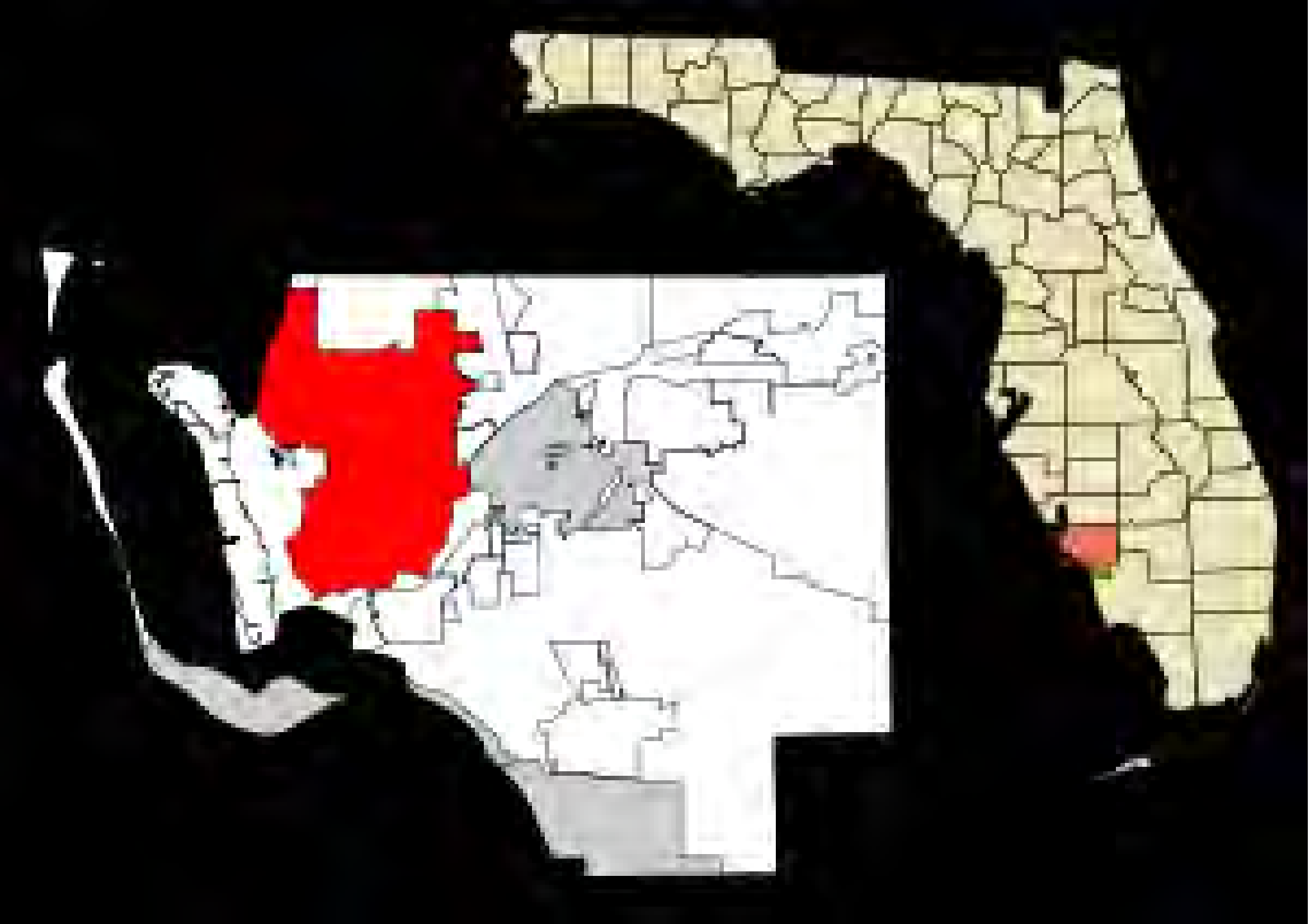
- Transportation Alternatives Funding **$760,000 per year**
- Multi-modal Enhancement Funding – SU funding allocated for Bicycle/Pedestrian projects at **$2,500,000 per year**
- Safe Routes to School/Safety funding – Criteria based, **currently 3 projects in 5 year TIP at total of $1,275,000**
- Bicycle/Pedestrian Projects **Included as Part of Widening Projects** – Large amount but hard to quantify (example SR 82 Lee Blvd to SR 29)
- Other Grant Funding **TIGER, Regional Pathways, SUN Trail etc.**
- Total projects/$ from 2015-2022 for the MPO:
  - 45 stand alone sidewalk, pathway & bike projects at a cost of **$40,091,311**
  - does not include local jurisdiction projects, such as Lee Co. $13.3 M. in CIP

Issues Moving Forward

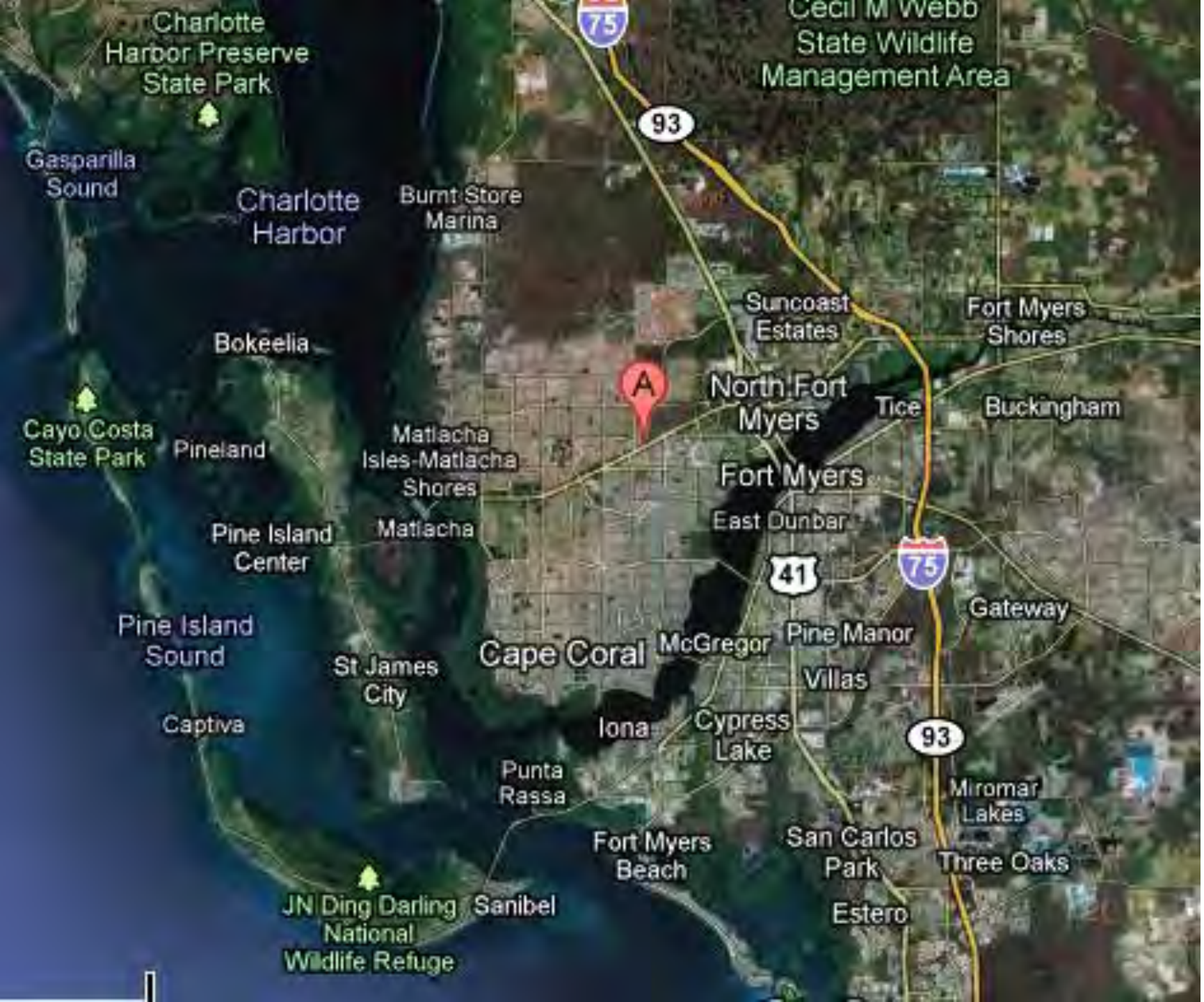
- Future of Transportation Funding
- Maintenance of Facilities
- Performance Measures
- Technology
- Politics

Local Municipality Experience

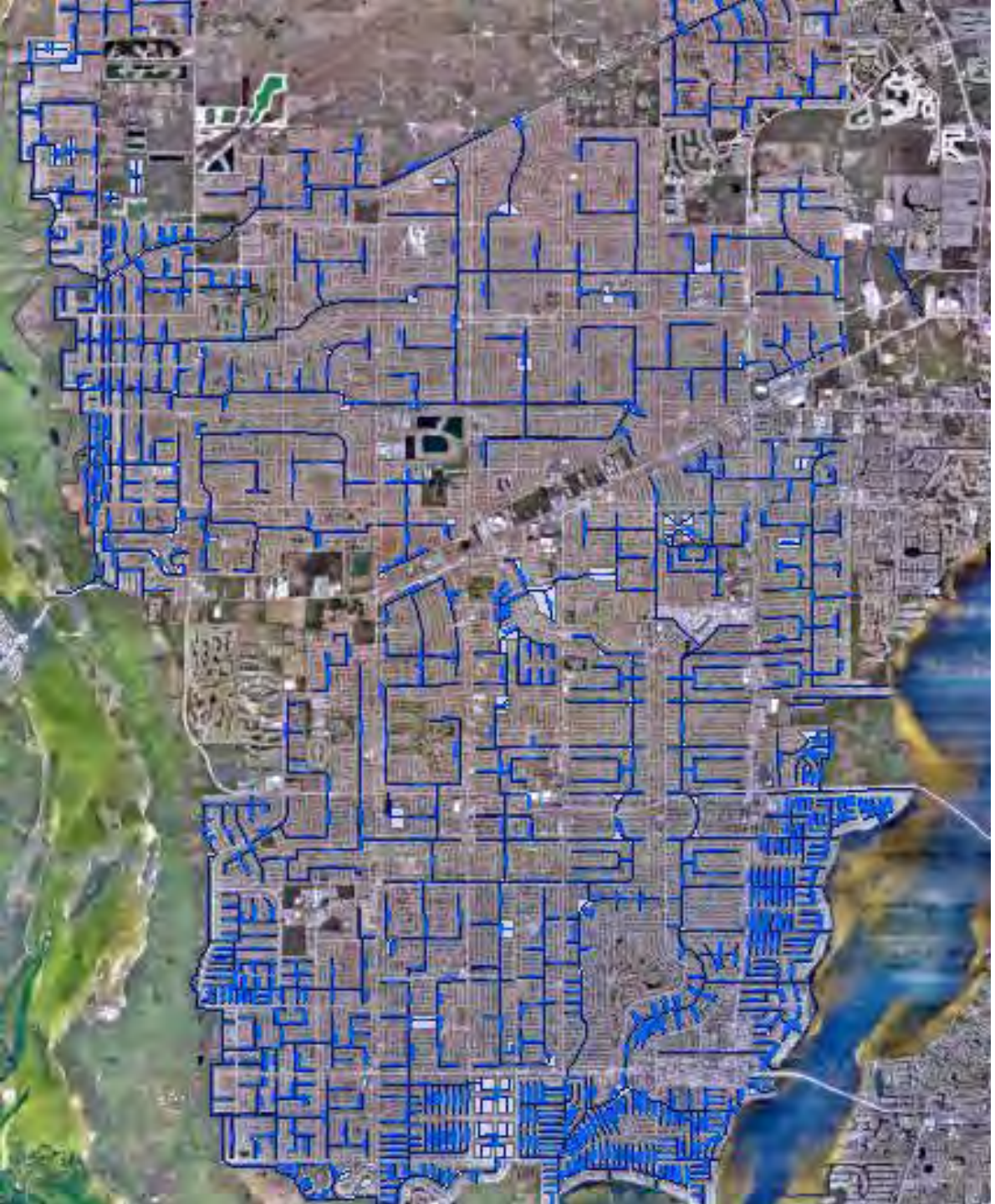
Cape Coral Perspective



Cape Coral, FL



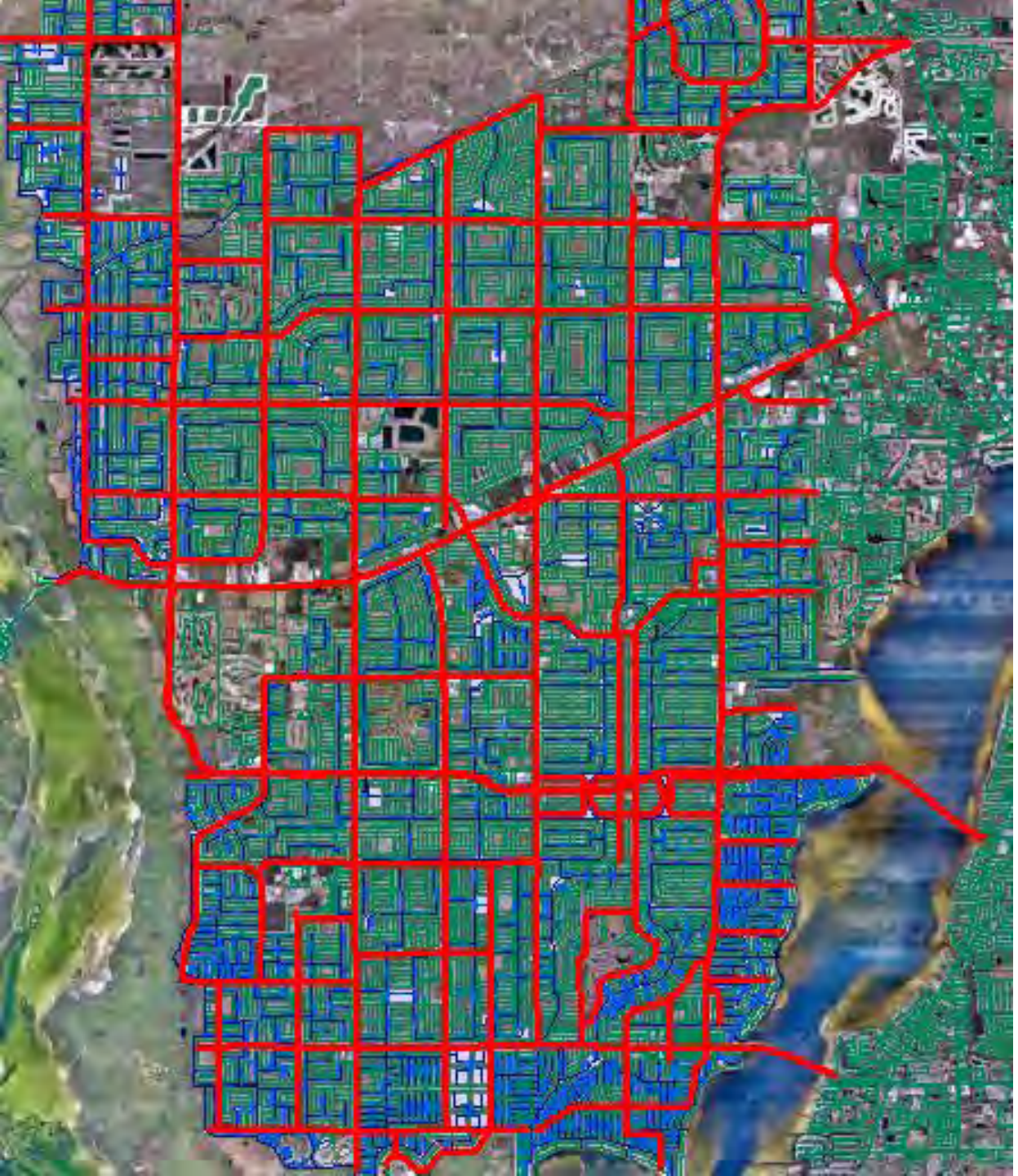
Cape Coral, FL



History + Context

- Developed by the Rosen brothers in late ’50
- Incorporated in August **1970**
- **350,000** platted lots
- **400** miles of canals
- Emphasis in marketing residential waterfront

Envisioned as “Waterfront Wonderland”



Nice transportation network despite challenges due to extensive canal system!

3rd Largest City in Florida by Land Area

Legal Framework

Comprehensive Plan/ Transportation Element

GOAL 2: The City of Cape Coral will provide its residents with **diverse travel choices** in order to ensure mobility, sustain environmental quality, reduce energy consumption, and increase the quality of life for Cape Coral's citizens.

E.D.S

Bicycle + Pedestrian Network

1981 Lee County adopted “Comprehensive Bikeway Facilities Plan”

In 1986 City constructed first on-street bike lane along Pelican Blvd. between Gleason and Cape Coral Pkwy.

Well received by residents…more will follow.

Bicycle + Pedestrian Network

On street bike lanes based on community request

New roads must provide sidewalks and bike lanes (*)

Focus in retrofitting major roads with higher AADT with sidewalks

Transportation Inventory

- **120** Square Mile City (Third largest in the State)
- **3,111** Lane Miles of Roads
- **156** Bridges (138 Maintained by the City)

Savona Pkwy

45

Game Changers

CAPE CORAL BIKE-PED

RESOLUTION 52 - 17

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CAPE CORAL ADOPTING THE BICYCLE AND PEDESTRIAN MASTER PLAN AS A COMPLETE STREETS IMPLEMENTATION STRATEGY; AUTHORIZING THE CITY MANAGER OR HIS DESIGNEE TO DEVELOP MEASURES TO IMPLEMENT THE PLAN; PROVIDING AN EFFECTIVE DATE.

WHEREAS, the City of Cape Coral, in partnership with the Metropolitan Planning Organization, has been working with Alta Planning and Design to complete the City's first Bicycle and Pedestrian Master Plan; and

WHEREAS, on August 17, 2015, City Council adopted Resolution 124-15, establishing a Complete Streets Policy for the City; and

WHEREAS, recommendations for the Master Plan were developed in part by gathering input through four meetings with the Project Advisory Board, two community workshops, and an interactive online map; and

WHEREAS, at the March 27, 2017 Committee of the Whole Meeting, Alta Planning and Design presented its progress report and the final draft of the Bicycle and Pedestrian Master Plan to the City Council; and

WHEREAS, the City Council desires to adopt the City of Cape Coral Bicycle and Pedestrian Master Plan prepared by Alta Planning and Design.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF CAPE CORAL FLORIDA AS FOLLOWS:

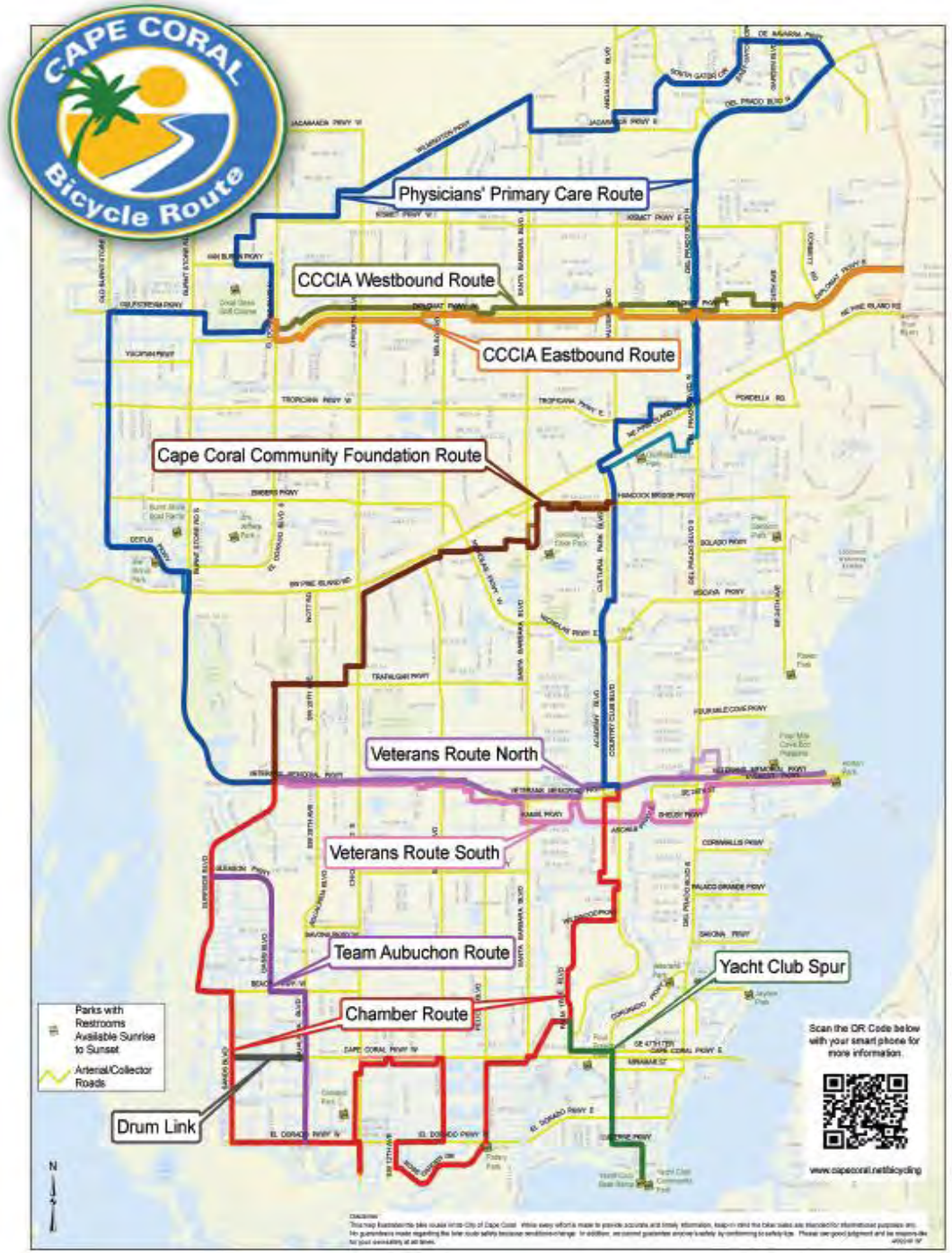
RESOLUTION 124 - 15

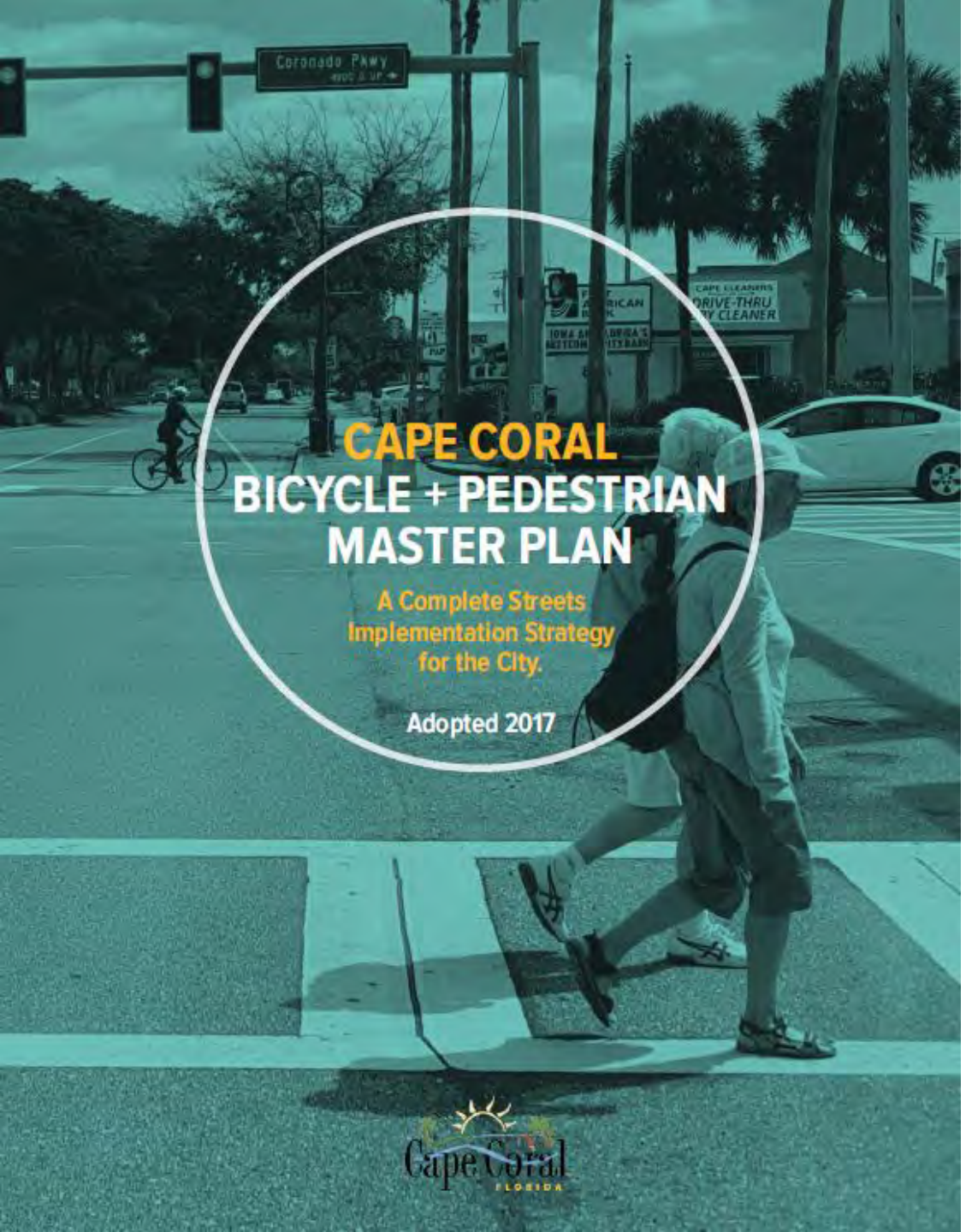
A RESOLUTION OF THE CITY OF CAPE CORAL ESTABLISHING A "COMPLETE STREETS" POLICY; PROVIDING AN EFFECTIVE DATE.

Game Changers

- **Funding allocation** for bike-ped facilitated through the MPO process.
- Making bike-ped **safety a priority**.
- Advisory role **promoting local participation in grant programs**: SRTS, TA and most recently SUN Trail.

CAPE CORAL BIKE-PED





CAPE CORAL
BICYCLE + PEDESTRIAN MASTER PLAN

A Complete Streets Implementation Strategy for the City.

Adopted 2017

Cape Coral
FLORIDA

alta
PLANNING + DESIGN

WITH SUPPORT FROM

JACOBS

FUNDING FOR THIS PROJECT PROVIDED BY

FDOT

LEE COUNTY MPO
METROPOLITAN PLANNING ORGANIZATION

APPENDIX 1 PROJECT IDENTIFICATION AND PRIORITIZATION

CAPE CORAL BICYCLE + PEDESTRIAN MASTER PLAN

ADOPTED 2017

Table 2. Pedestrian projects in order of priority

RANK	ID#	PROJECT TYPE	STRATEGY	MI.	PRIORITY SCORE	CORRIDOR	FROM	TO	REPAVING SCHEDULE	UTILITY EXTENSION AREA
1	69	Sidewalk (Funded)	Lane Elimination	2.0	24	Tropicana Pkwy	El Dorado Blvd	Chiquita Blvd	N/A	North 2
2	66	Install new walkway	N/A	3.0	23	Andalusia Blvd	Diplomat Pkwy	NE Pine Island Rd	N/A	North 1, North 2
3	86	Sidewalk (Funded)	Lane Elimination	2.9	23	Chiquita Blvd/ Nicholas Pkwy	Embers Pkwy	SW Pine Island Rd	2018 Major, 2019 Major	North 2
4	98	Install new walkway	Lane Diet, Restripe	0.5	23	SE 9th St/ Viscaya Pkwy	SE 8th Pl	SE 13th Ave	N/A	N/A
5	103	Sidewalk (Funded)	Lane Elimination	1.9	23	Chiquita Blvd	Veterans Memorial Pkwy	SW 31st Ter	2020 Major	N/A
6	84	Install new walkway	Lane Elimination	3.4	22	Cetus Pkwy	SW 32nd Pl	Embers Pkwy	N/A	North 2

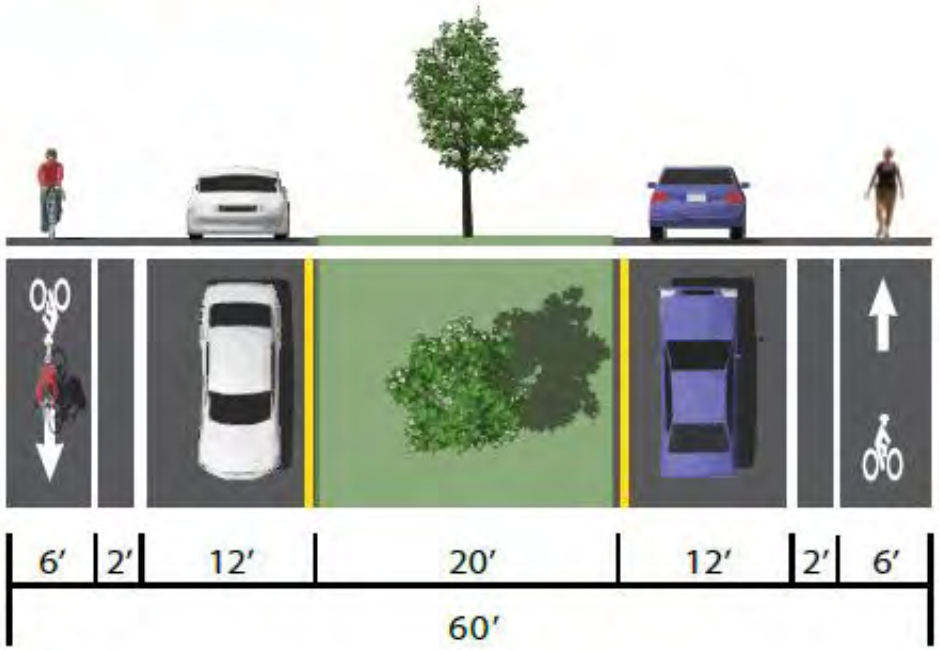
How were infrastructure recommendations developed?

1. IDENTIFY AREAS WITH THE GREATEST DEMAND OR PROPENSITY, FOR WALKING AND BIKING
2. IDENTIFY AREAS WITH THE HIGHEST TRAFFIC STRESS LEVELS FOR PEOPLE WALKING AND BIKING GIVEN CURRENT CONDITIONS
3. DEVELOP FACILITY RECOMMENDATIONS TO LOWER TRAFFIC STRESS TO LEVELS COMFORTABLE FOR FAMILIES WITH CHILDREN
4. PRIORITIZE PROJECTS USING PUBLIC INPUT, DEMAND ANALYSIS, TRAFFIC STRESS ANALYSIS AND SAFETY ANALYSIS

Existing Typical Cross Section for Neighborhood Streets

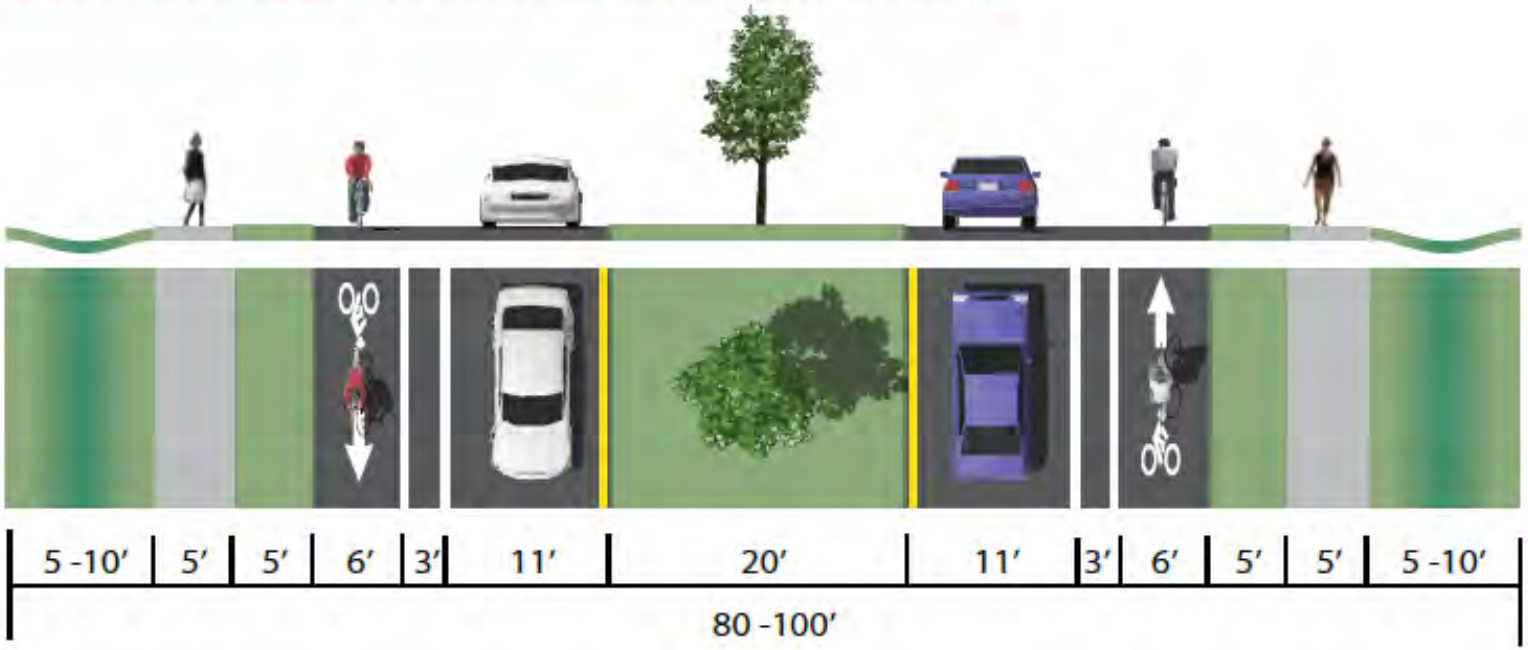
Example Neighborhood Street in Cape Coral

Existing Typical Cross Section for Connector Streets



Example Connector Street in Cape Coral

MODERATE SPEEDS AND VOLUMES: Lower-cost alternative



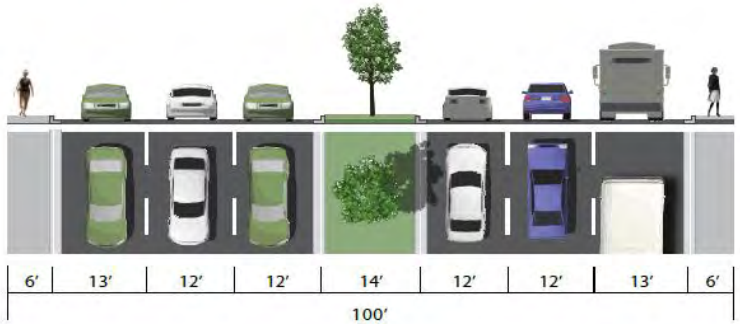
Application

> On streets with up to 20,000 cars per day and a posted speed of 35 mph or less

Implementation

> Add flush asphalt or concrete sidewalks. Maintain existing swale for drainage

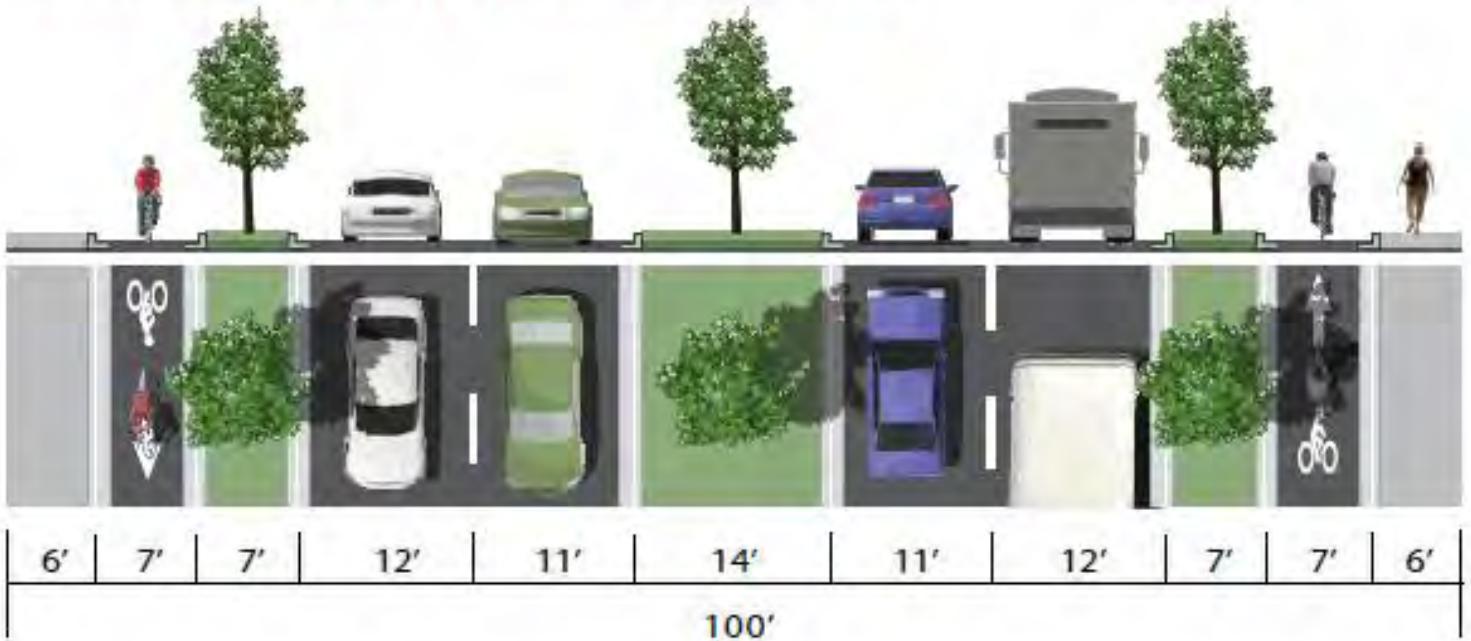
Existing Typical Cross Section for Major Streets



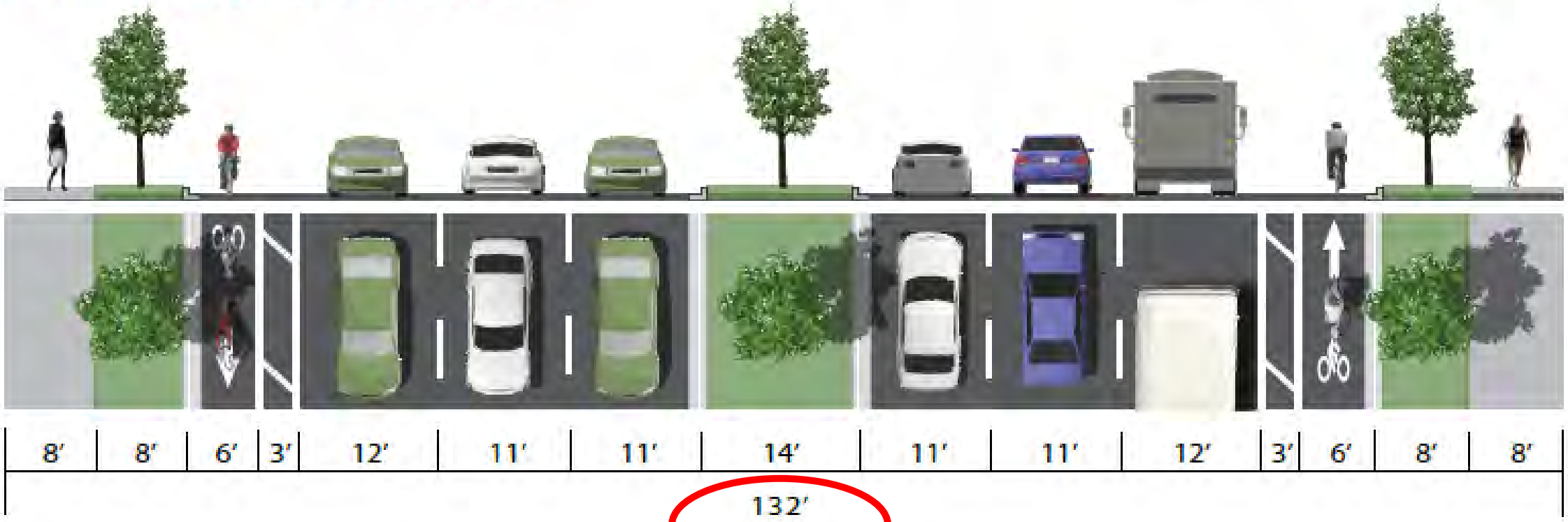
Example Major Street in Cape Coral

PROPOSED Typical Cross Sections for Major Streets

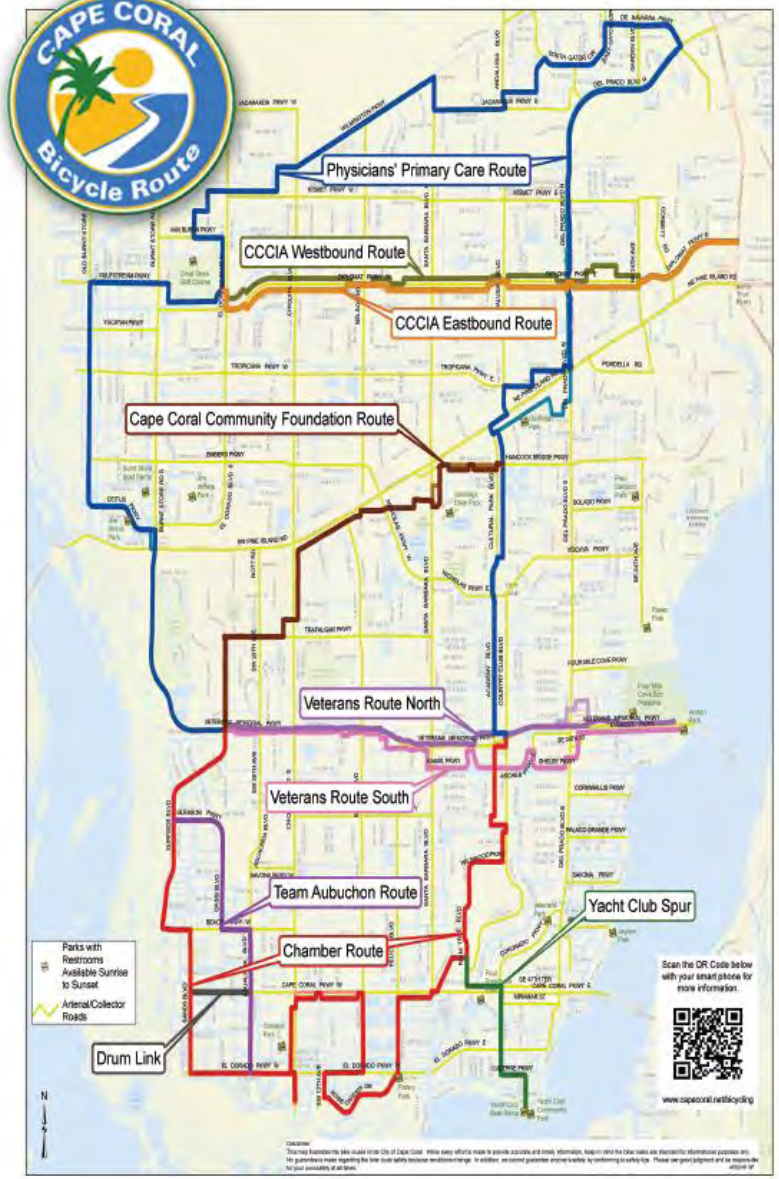
SEPARATED BIKE LANES AND SIDEWALKS (ROAD DIET)



BUFFERED BIKE LANES AND SIDEWALKS



Accomplishments



FLORIDA 20
BICYCLE ASSOCIATION
www.floridabicycle.org EST. 1997

BICYCLE FRIENDLY COMMUNITY
2015-2019
BRONZE
THE LEAGUE OF AMERICAN BICYCLISTS

CAPE CORAL, FLORIDA

BICYCLE FRIENDLY COMMUNITY Fall 2015 THE LEAGUE OF AMERICAN BICYCLISTS BRONZE

TOTAL POPULATION
163,599

POPULATION DENSITY
1460.2

TOTAL AREA (sq. miles)
120

OF LOCAL BICYCLE FRIENDLY BUSINESSES NA

OF LOCAL BICYCLE FRIENDLY UNIVERSITIES NA

10 BUILDING BLOCKS OF A BICYCLE FRIENDLY COMMUNITY

	Average Silver	Cape Coral
Arterial Streets with Bike Lanes	45%	31%
Total Bicycle Network Mileage to Total Road Network Mileage	30%	4%
Public Education Outreach	GOOD	VERY GOOD
Share of Transportation Budget Spent on Bicycling	7%	1%
Bike Month and Bike to Work Events	GOOD	FEW/NONE
Active Bicycle Advocacy Group	ACTIVE	ACTIVE
Active Bicycle Advisory Committee	ACTIVE	MEETS MONTHLY OR MORE
Bicycle-Friendly Laws & Ordinances	SOME	FEW
Bike Plan is Current and is Being Implemented	YES	SOMEWHAT
Bike Program Staff to Population	1 PER 70K	1 PER 2.2K

CATEGORY SCORES

ENGINEERING *Bicycle network and connectivity*	3/10
EDUCATION *Motorist awareness and bicycling skills*	5/10
ENCOURAGEMENT *Mainstreaming bicycling culture*	2/10
ENFORCEMENT *Promoting safety and protecting bicyclists' rights*	4/10
EVALUATION & PLANNING *Setting targets and having a plan*	1/10

KEY OUTCOMES

	Average Silver	Cape Coral
RIDERSHIP *Percentage of daily bicyclists*	3.5%	0.40%
SAFETY MEASURES **CRASHES** *Crashes per 10K daily bicyclists*	180	1460
SAFETY MEASURES **FATALITIES** *Fatalities per 10K daily bicyclists*	1.4	35.09

KEY STEPS TO SILVER

» Adopt bicycle facility selection criteria that increases separation and protection of bicyclists based of levels of motor vehicle speed and volume.

» Provide targeted bicycle education classes for women, seniors, families or other demographic groups in the community.

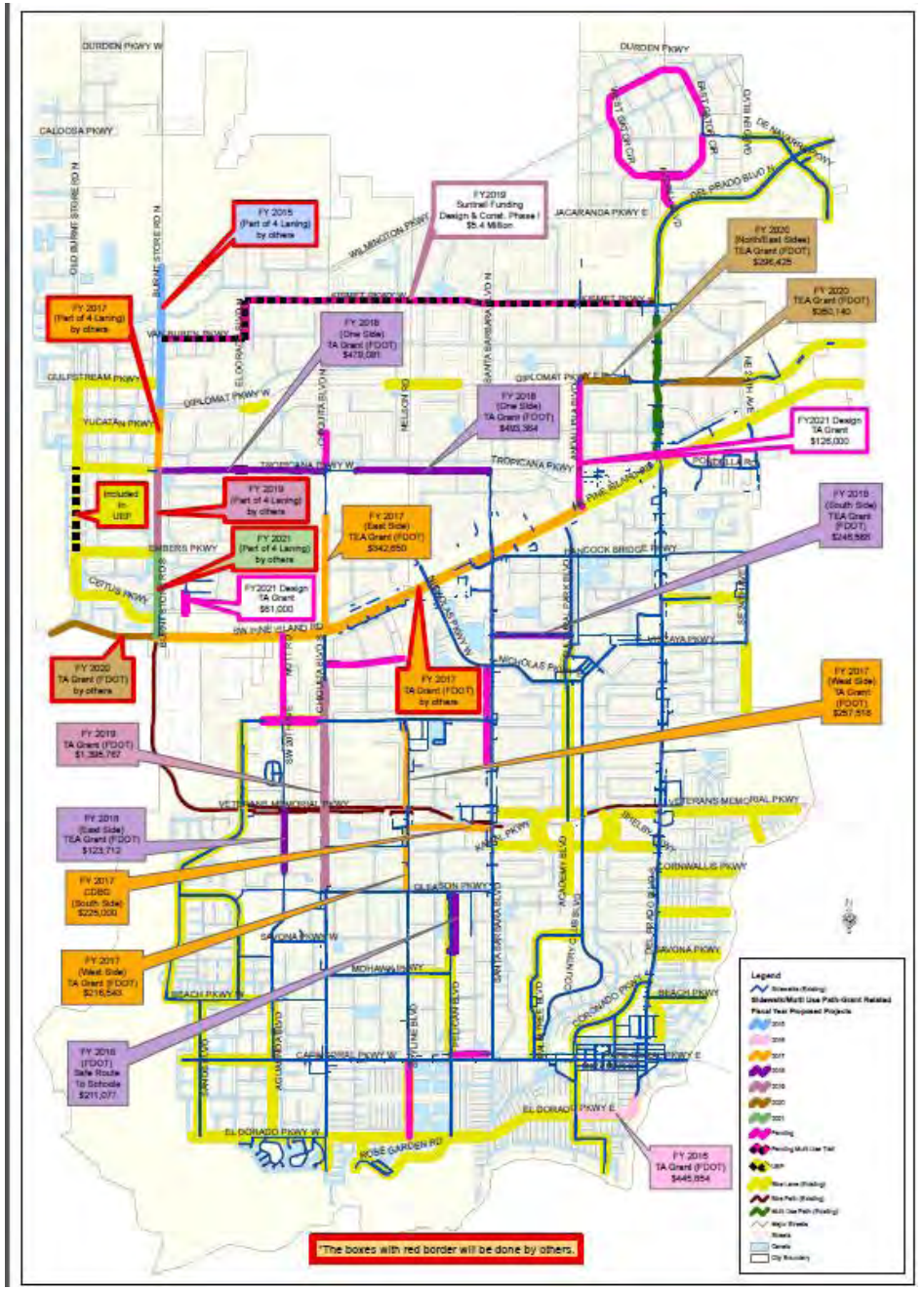
» Promote cycling throughout the year by offering or supporting more family-oriented community rides, and bicycle-themed festivals, parades or shows.

» Continue to seek grants for high visibility enforcement and institutionalize the use of bicycles by police.

» Adopt and implement the bicycle plan that is currently being prepared.

» Ensure that there is dedicated funding for the implementation of the bicycle master plan. Ensure to specifically allocate bicycle-related funding to low-income/minority communities.

Trails And Bikeways



Funding

From: General fund supplemented with grants

To: 100% grant related (past 5-years)

2018-2021 Proposed Budget includes funding for sidewalks.

news-press.com
PART OF THE USA TODAY NETWORK

Pedal power surges in Cape Coral

Randy Kambic, Special to The News-Press Published 11:00 a.m. ET Aug. 23, 2017

(Photo: Ricardo Rolon / The News-Press)

1 CONNECT TWEET 1 LINKEDIN COMMENT EMAIL

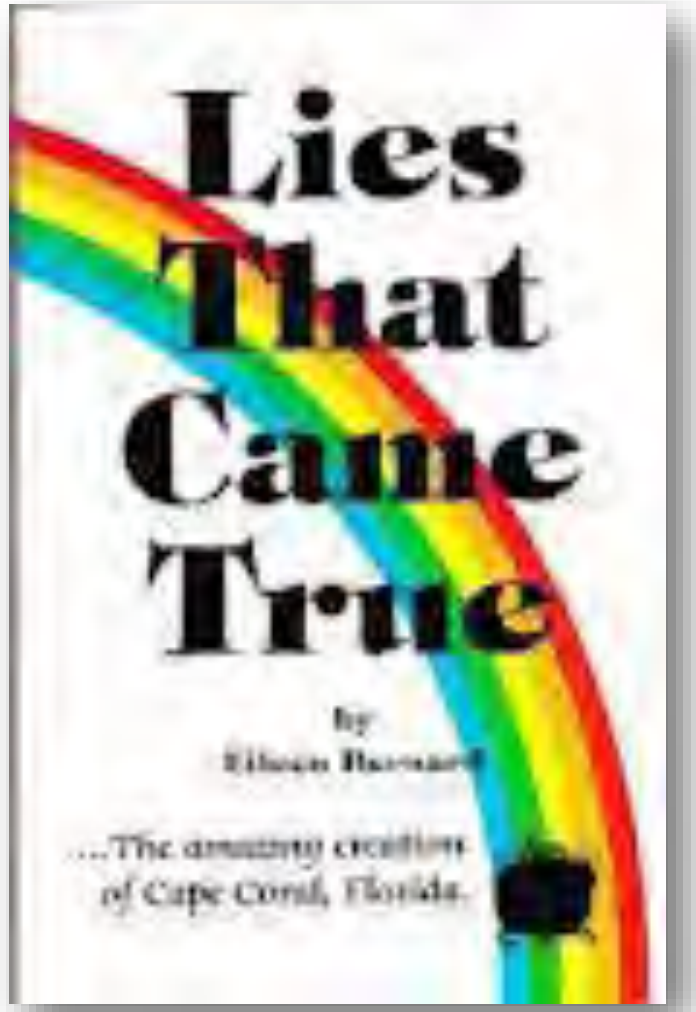
Thanks to considerable behind-the-scenes wor
recent years, pedal power is stronger and safe
ever for recreational biking, putting fitness and
benefits in high gear.

Cape Coral Bike-Ped, supervised by Michael
Swanson with significant assistance by organiz
co-founder Carolyn Conant-Adair and Rob Seit
conducts SWFL Critical Mass "slow-roll" events
the last Friday of each month. The open tours
involve approximately 100 riders along an 11-m
loop starting at 8 p.m. at Club Square. The nex
is this Friday.

Cape Coral Bicycling

...Water, Wildlife & Wonderful Experiences

A guide to Cape Coral's 90 miles of interconnected bike routes with a color-coded map and detailed descriptions of the highlights you'll discover along each of the seven easy-to-navigate routes.


Lies
That
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by
...The amazing creation
of Cape Coral, Florida.

Discussion

Politics
Funding
Implementation
Performance Measures
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Economy