

# The Lake County Transportation Concurrency Management System

A Summary of the Application,  
Implementation, and Coordination



GMB ENGINEERS & PLANNERS, INC.



# Introduction

**Purpose:** Develop a transportation concurrency management system to track impacts countywide.

## The Tools:

- Countywide roadway monitoring system (GIS-based)
- Working together (“intergovernmental coordination”)

## The Direction:

- Finalize roadway data and conduct beta testing
- Install and implement the system
- Continue the coordination efforts

# Why Countywide Concurrency?

- Traffic impacts do not stop at jurisdictional boundaries.
- Continuity between assumptions in road analyses.
- Creates system for tracking of traffic (Countywide).
- Realistic picture of roadway conditions.
- Recognizes road failures earlier rather than later.

# Countywide CMS Overview

- “Checkbook” concurrency
  - tracks trips on every link
  - traffic compared against adopted standards
- What is being tracked?
  - Traffic counts updated annually
  - Approved developments (i.e. vested)
- Tracking mechanism?
  - Information stored / tracked in GIS system
  - Developments tracked by Parcel ID

### How does the system work?

- Base condition includes:
  - traffic counts (annual)
  - approved traffic from developments
- As development approved (building permit)  
..... trips are added to system
- As development completed (certificate of occupancy)  
..... trips are deleted

### Traffic study procedures:

- When an applicant requests concurrency:
  1. Establish methodology
  2. Define land use program
  3. Based on land use,
    - use GIS system to identify roads to evaluate
    - system will generate current road conditions
  4. Provide applicant with road summary
  5. Applicant conduct traffic study
  6. Study reviewed and approved by jurisdiction
  7. Approved trips entered into County system
  8. Develop mitigation plan (if necessary)

### Status of the CMS system

- Finalization of roadway data
- Application and interface completed
- Beta testing to be conducted
- Transmittal and installation
- Staff training

Lake County

Transportation Concurrency Management System

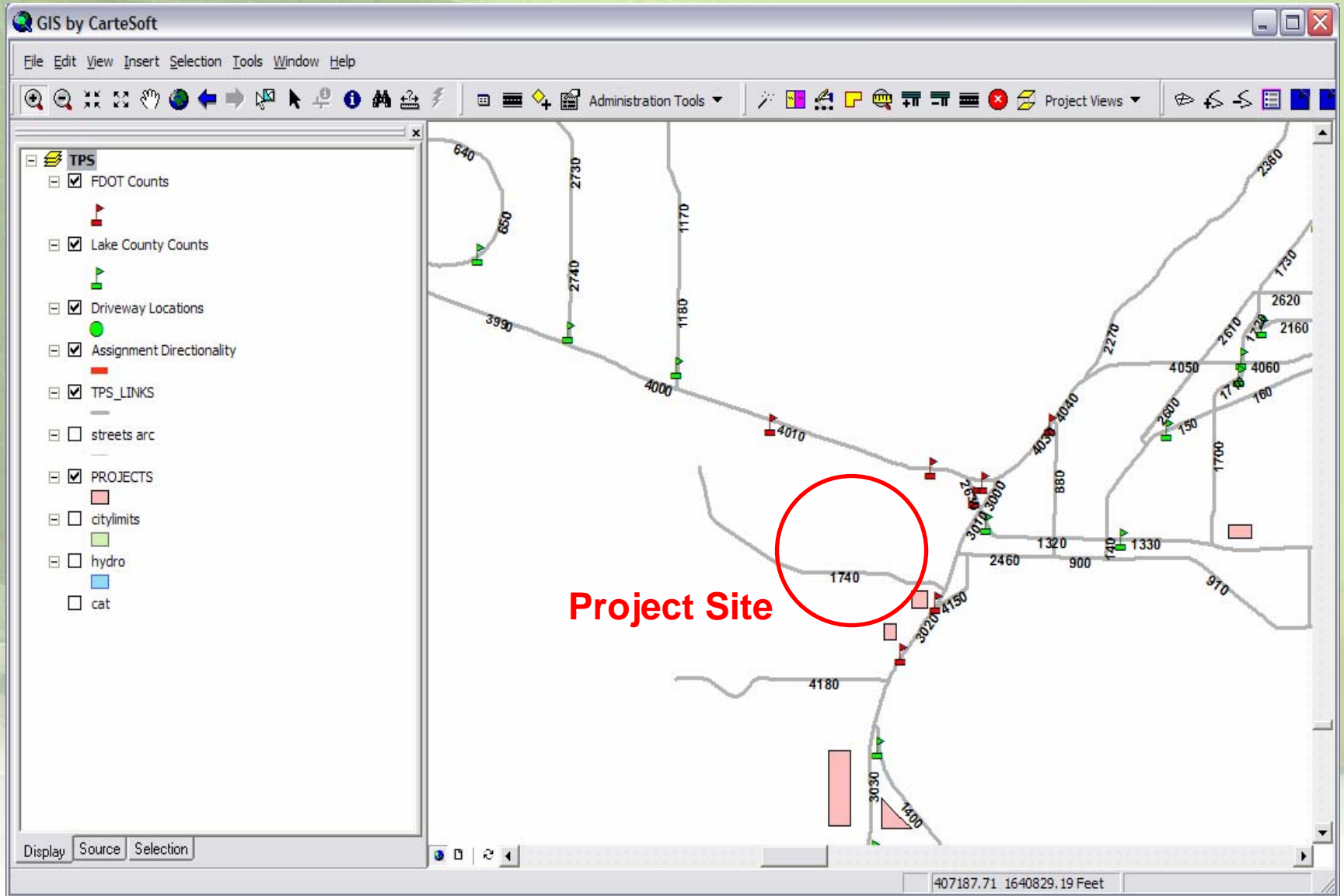
# Screen Captures of the TCMS





# Lake County

## Transportation Concurrency Management System



# Lake County

## Transportation Concurrency Management System

GIS by CarteSoft

File Edit View Insert Selection Tools Window Help

Administration Tools Project Views

TPS

- FDOT Counts
- Lake County Counts
- Driveway Locations
- Assignment Directionality
- TPS\_LINKS

Display Source Selection

Project Link Assignments

Project ID: 5960

Parcel Number:

Address:

Project Name: Plaza Collina

Project Status: Status 1

Percent Complete:

Notes

Land Uses

- Single Family / Mobile Home (On Single Family Lot) +
- Multi-Family (3 as Stories) -

New Trips Summary

	In	Out	Total
Daily New Trips			0
AM Peak Hr New Trips	0	0	0
PM Peak Hr New Trips	0	0	0

403483.05 1641121.66 Feet

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## Transportation Concurrency Management System

GIS by CarteSoft

AddLandUseFormLake

Id	Ite Code	Description	Trip Length
1	210	Single Family / Mobile Home (On Single Family Lot)	9.1
2	210	Single Family / Mobile Home (On Single Family Lot)	9.1
3	210	Single Family / Mobile Home (On Single Family Lot)	9.1
4	0	Active Adult (Deed Restricted)	10.3
5	221	Multi-Family (1 or 2 Stories)	7.69
6	222	Multi-Family (3 as Stories)	7.69
7	240	Mobile Home Park (Mobile Homes Clustered in a Park)	6.56
8	252	ACLF	4.87
9	310	Hotel	9.38
10	320	Motel / Bed and Breakfast	6.56

Close Add

Project ID: 5980  
Parcel Number:   
Address:   
Project Name: Cagan Crossings  
Project Status:   
Percent Complete:

Notes:

Land Uses:

New Trips Summary

	In	Out	Total
Daily New Trips	<input type="text"/>	<input type="text"/>	<input type="text"/>
AM Peak Hr New Trips	<input type="text"/>	<input type="text"/>	<input type="text"/>
PM Peak Hr New Trips	<input type="text"/>	<input type="text"/>	<input type="text"/>

523721.67 1533102.07 Feet

# Lake County

## Transportation Concurrency Management System

PrintDialogForm

Print Preview... Select Printer...

### Project Information and Link Assignments

Feild	Value
Project ID #	5980
PBC ID #	
Address	
Project Name	Cagan Crossings
Project Type	
Notes	

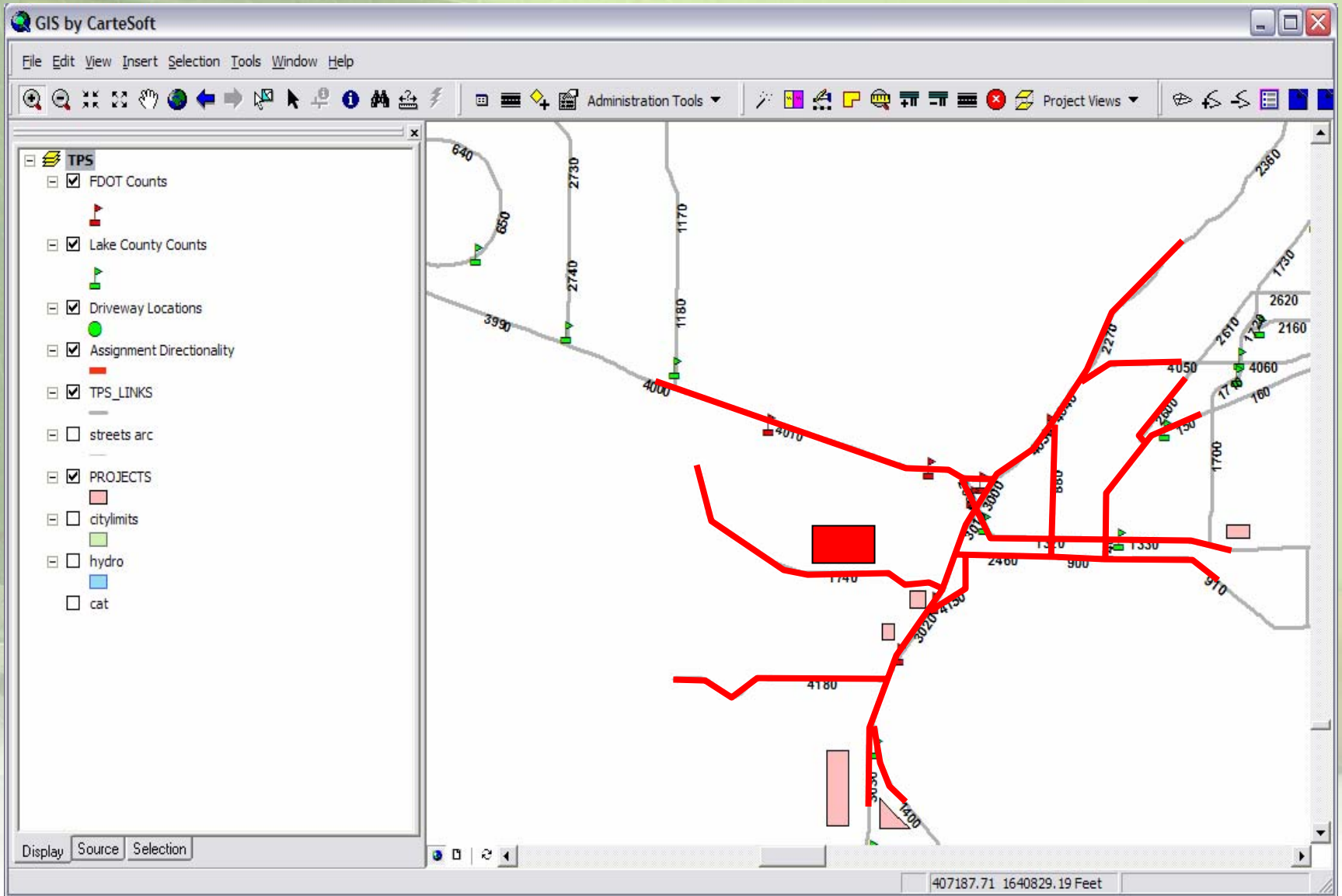
Feild	In	Out	Total
Daily New Trips	0		
Am Peak HR New Trips	0	0	0
Pm Peak HR New Trips	0	0	0

Roadway	From	To	% Assign	In Direction	CLOS	Lanes	Capacity	Pk Hr Trips	Project Sig%
US 27/SR 25	SR 50	JOHNS LAKE ROAD	0	NBEB		4	1460	0	0
US 27/SR 25	JOHNS LAKE ROAD	HARDWOOD MARSH ROAD	0	NBEB		4	1460	0	0
US 27/SR 25	HARDWOOD MARSH ROAD	LAKE LOUISA ROAD	0	NBEB		4	1460	0	0
US 27/SR 25	LAKE LOUISA ROAD	CR 474	0	NBEB		4	1460	0	0
US 27/SR 25	CR 474	US 192	0	NBEB		4	1460	0	0
US 192	US 27	ORANGE COUNTY LINE	0	NBEB		6	2330	0	0
C.R. 474	SR 33	GREEN SWAMP ROAD	0	NBEB		2	1170	0	0
C.R. 474	GREEN SWAMP ROAD	US 27	0	NBEB		2	1170	0	0

Cancel

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## Transportation Concurrency Management System



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## Transportation Concurrency Management System

**Add New Land Use**

Land Uses

- 55+ SF Attached
- 55+ SF Detached
- Adult Carbare
- Apartment
- Assisted Living Facility
- Automated Car Wash
- Automobile Care Center
- Automobile Parts Sales
- Bowling Alley
- Campground/Recreational Ve
- Cemetery
- Church/Synagogue
- City Park
- Clinic
- Condo/TH (Fee Simple)
- Congregate Care Facility
- Convenience Store
- County Park
- Day Care
- Drinking Place
- Drive-In Bank
- Electronic Superstore
- Elementary School
- Fast Food Restaurant+DT
- Fast-Food Restaurant without
- Furniture Store

Description: Assisted Living Facility

Land Use Code: 254

Source Reference: ITE

Source Version: 7th Edition

Residential  
 Non-Residential

Equation	Slope	Intercept	Units	LogLinear	Percent In	Percent Out	Pass By Slope	Pass By Int
Daily	2.66	0	Beds	<input type="checkbox"/>	50	50	0	0
AM Peak	0.14	0	Beds	<input type="checkbox"/>	65	35	0	0
PM Peak	0.22	0	Beds	<input type="checkbox"/>	44	56	0	0

Add New Cancel Delete

### Additional Benefits of the CMS

- LOS Summary Map
- Facility Type Map
- Volume Capacity Ratio Map
- Count Program Map
- Project Summary Report
- Annual Summary Report
- Trip Generation Tool

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Questions & Comments ?