The Lake County Transportation Concurrency Management System

A Summary of the Application, Implementation, and Coordination

LAKE COUNTY
FLORIDA

Lake-Sumter MPO
Metropolitan Planning Organization

GMB ENGINEERS & PLANNERS, INC.

Data Transfer Solutions

GLATTING JACKSON KERCHER ANGLIN LOPEZ RINEHART

Introduction

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

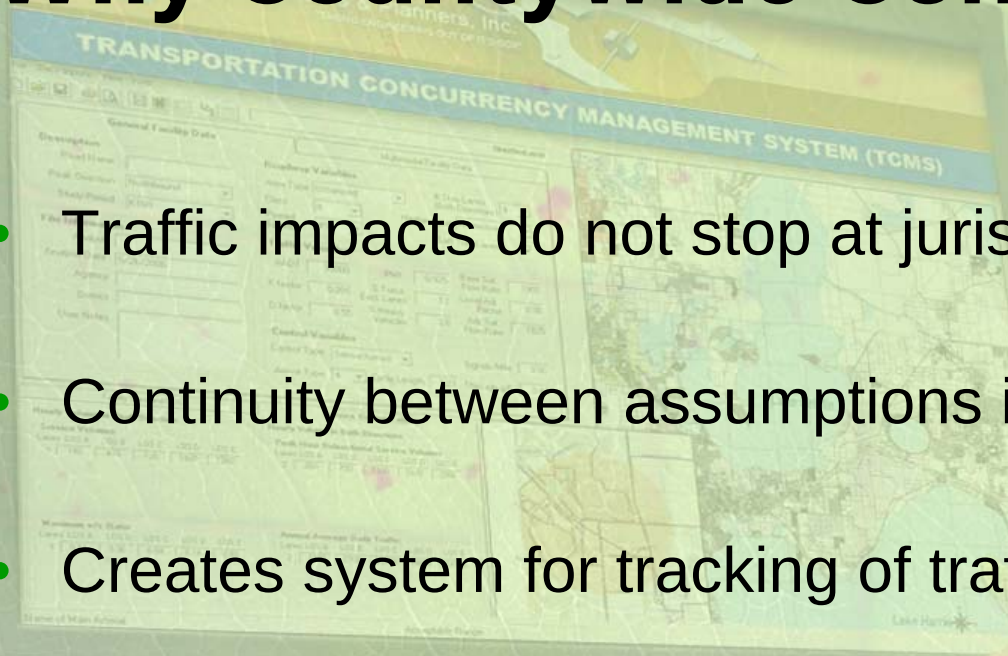
The Tools:

- 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)

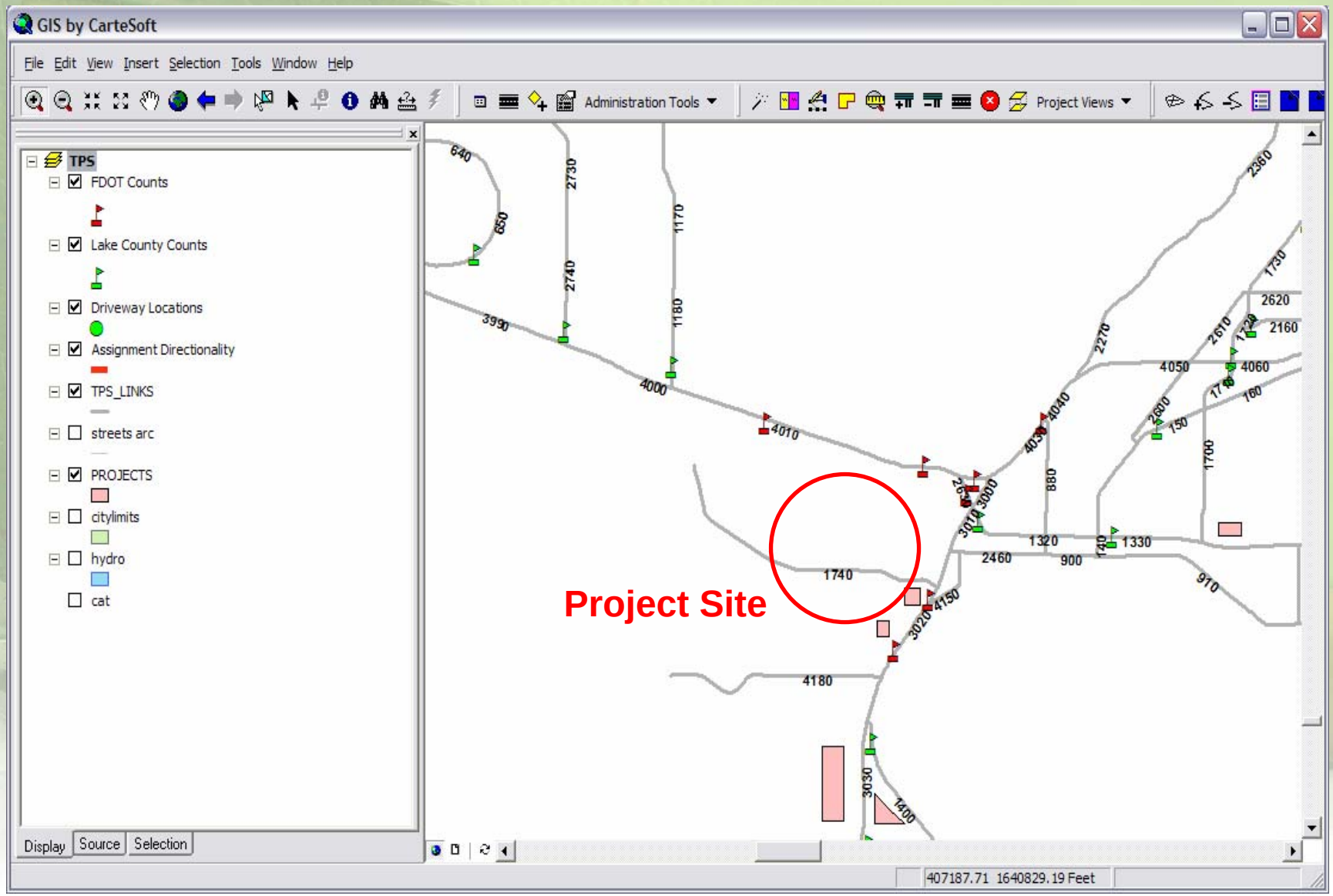
Status of the CMS system

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

Screen Captures of the TCMS

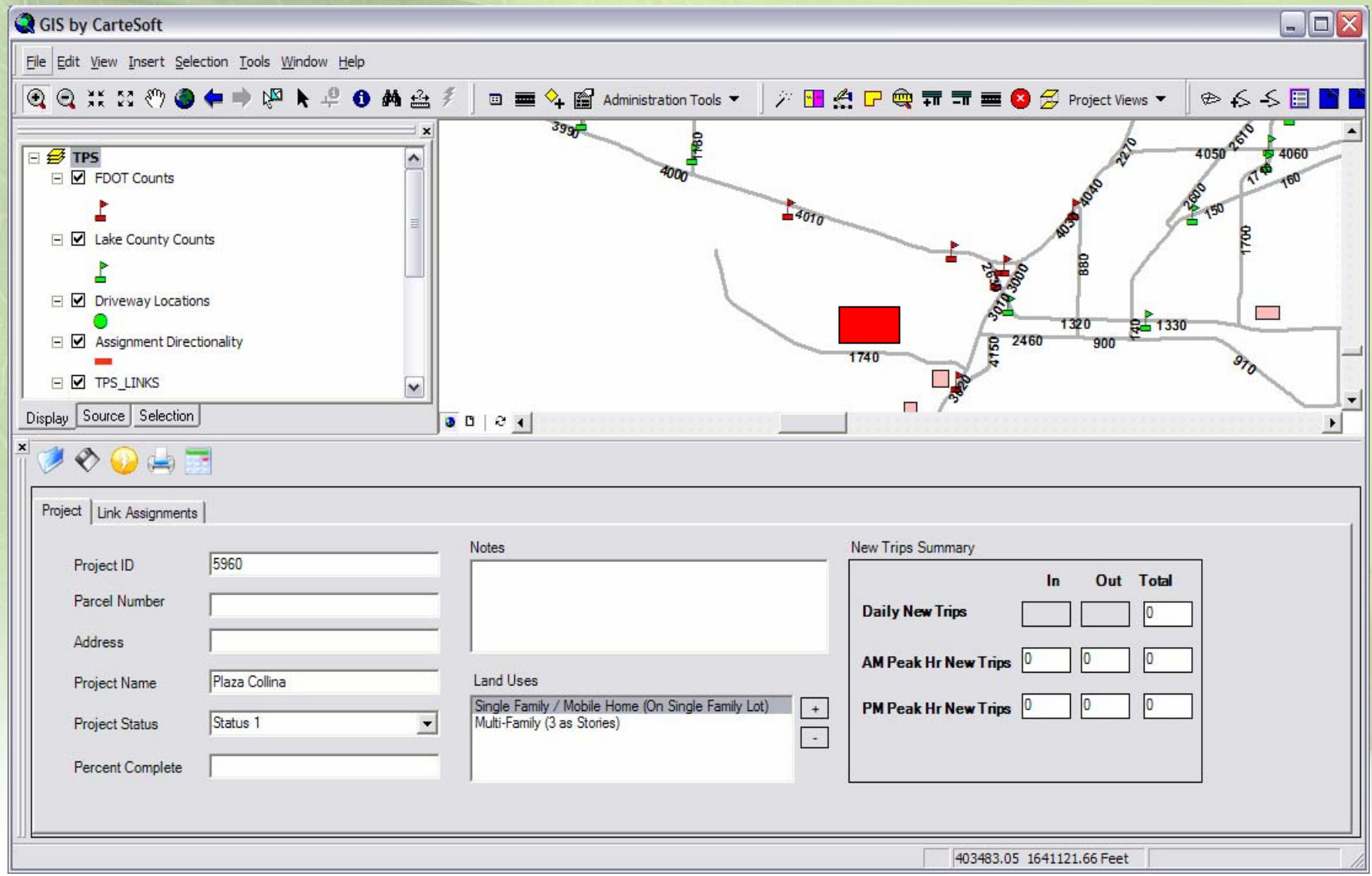
Lake County

Transportation Concurrency Management System



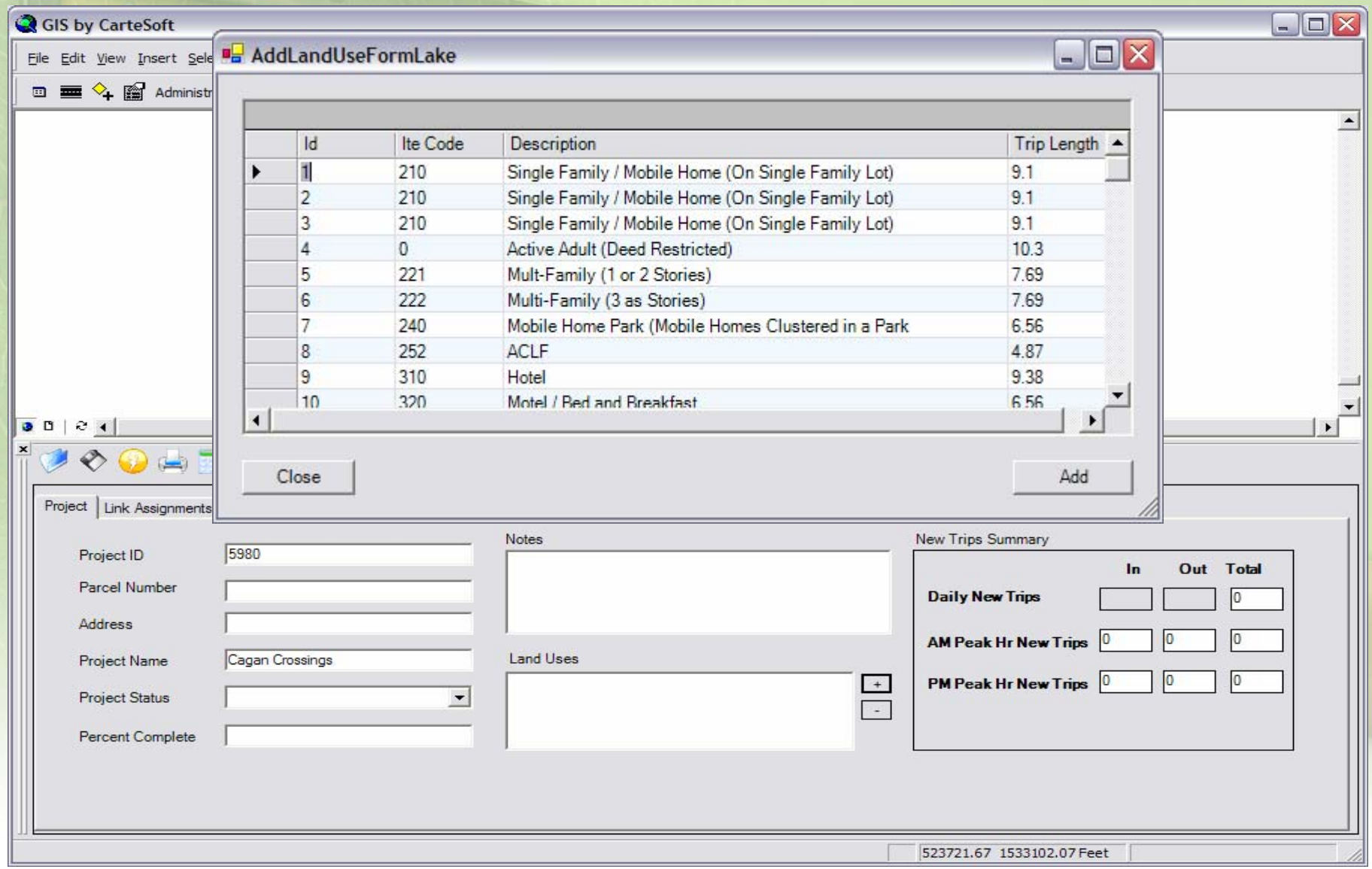
Lake County

Transportation Concurrency Management System



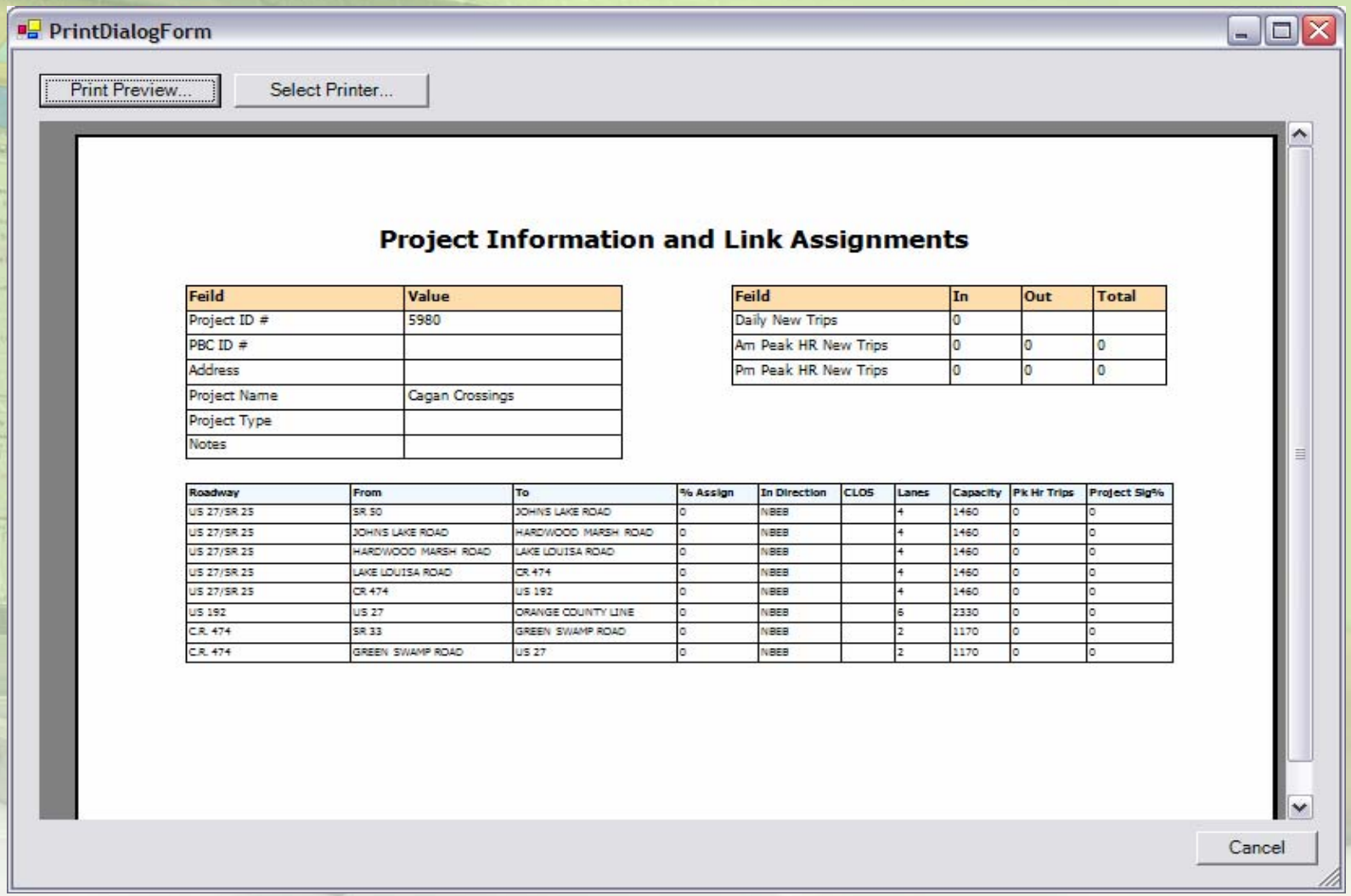
Lake County

Transportation Concurrency Management System



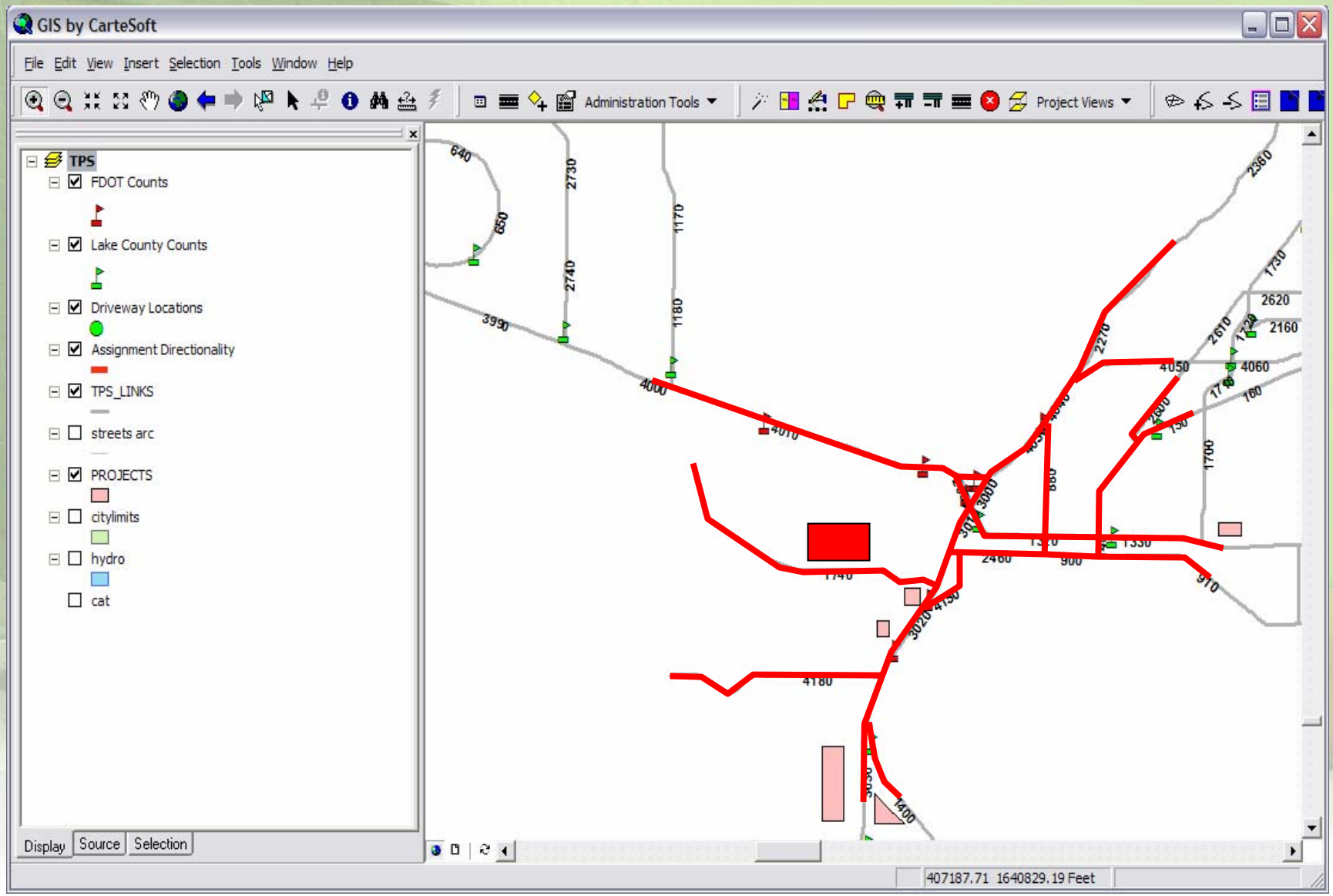
Lake County

Transportation Concurrency Management System



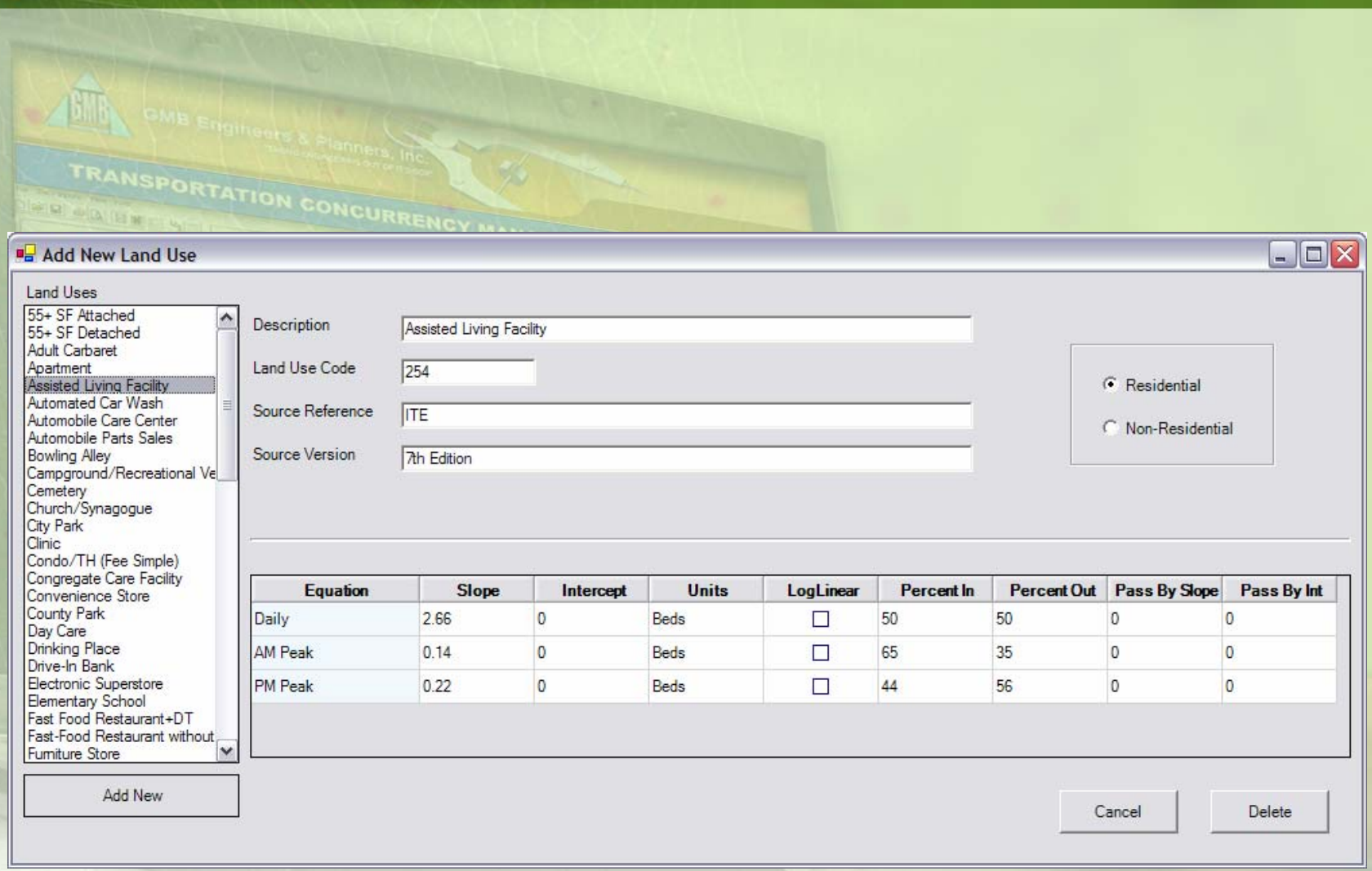
Lake County

Transportation Concurrency Management System



Lake County

Transportation Concurrency Management System



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

Questions & Comments ?