Southern California Association of Governments

Regional Screenline Count Database

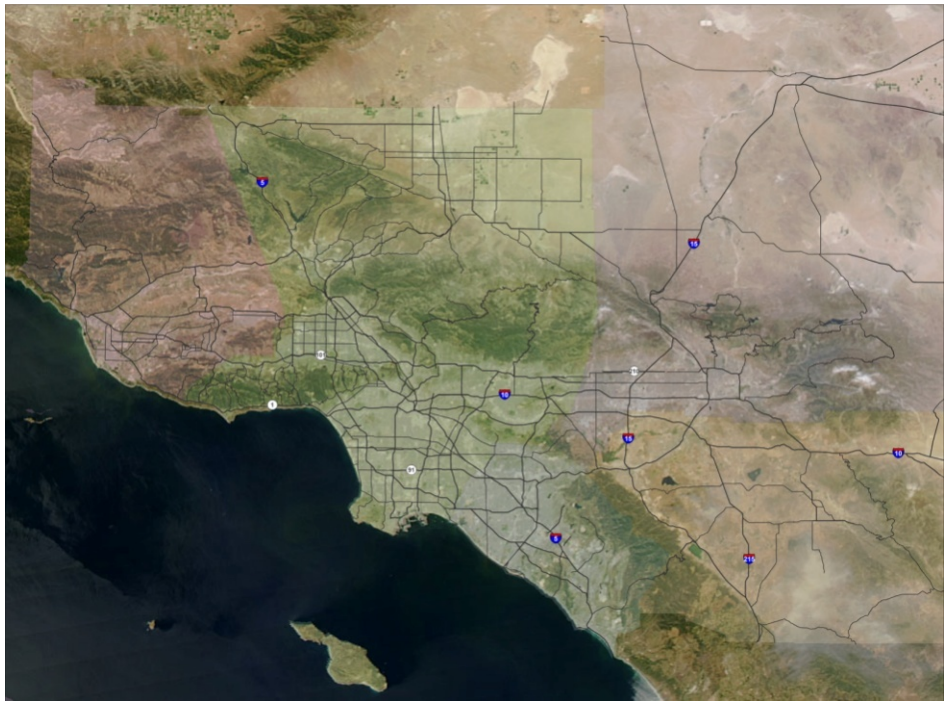
Modeling Task Force

March 27, 2013

LSA CAMBRIDGE SYSTEMATICS

AGENDA

- Introductions
- Objectives
- Approach
- Database
- Schedule



LSA

LSA ASSOCIATES, INC.

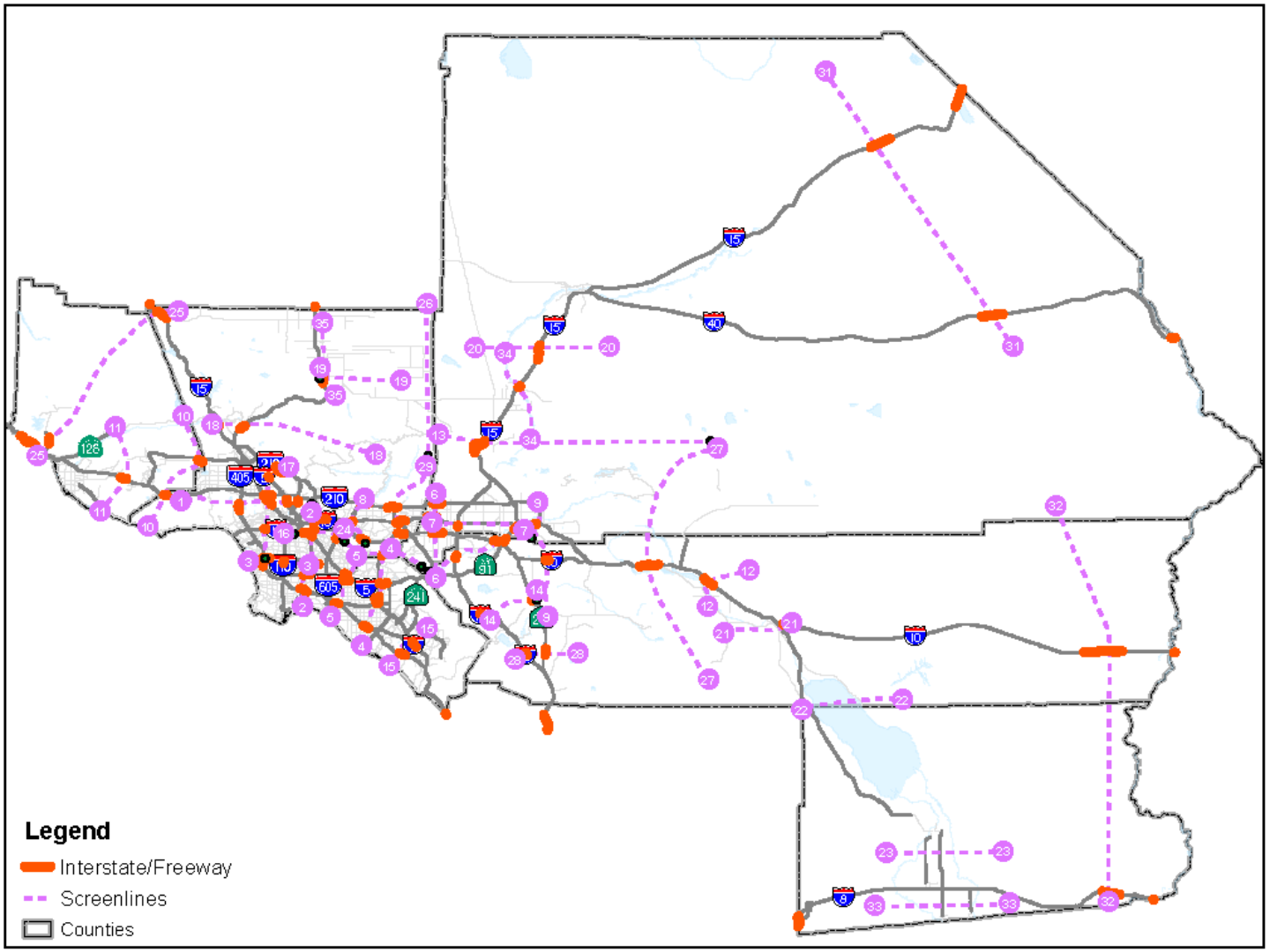
PROJECT OBJECTIVES

- Basic Screenline Review
- Complete Screenline Count Coverage
  - 35 Screenlines (one new)
  - Regional Cordon locations
- Freeway Truck Classification counts
  - Supplement existing data on freeway links
- Updated Count Database
  - Populate the database with the new data
  - Refresh the link between the Screenline Database and SCAG's latest roadway network
- Final Dataset
  - Ready for use in SCAG's next model validation exercise

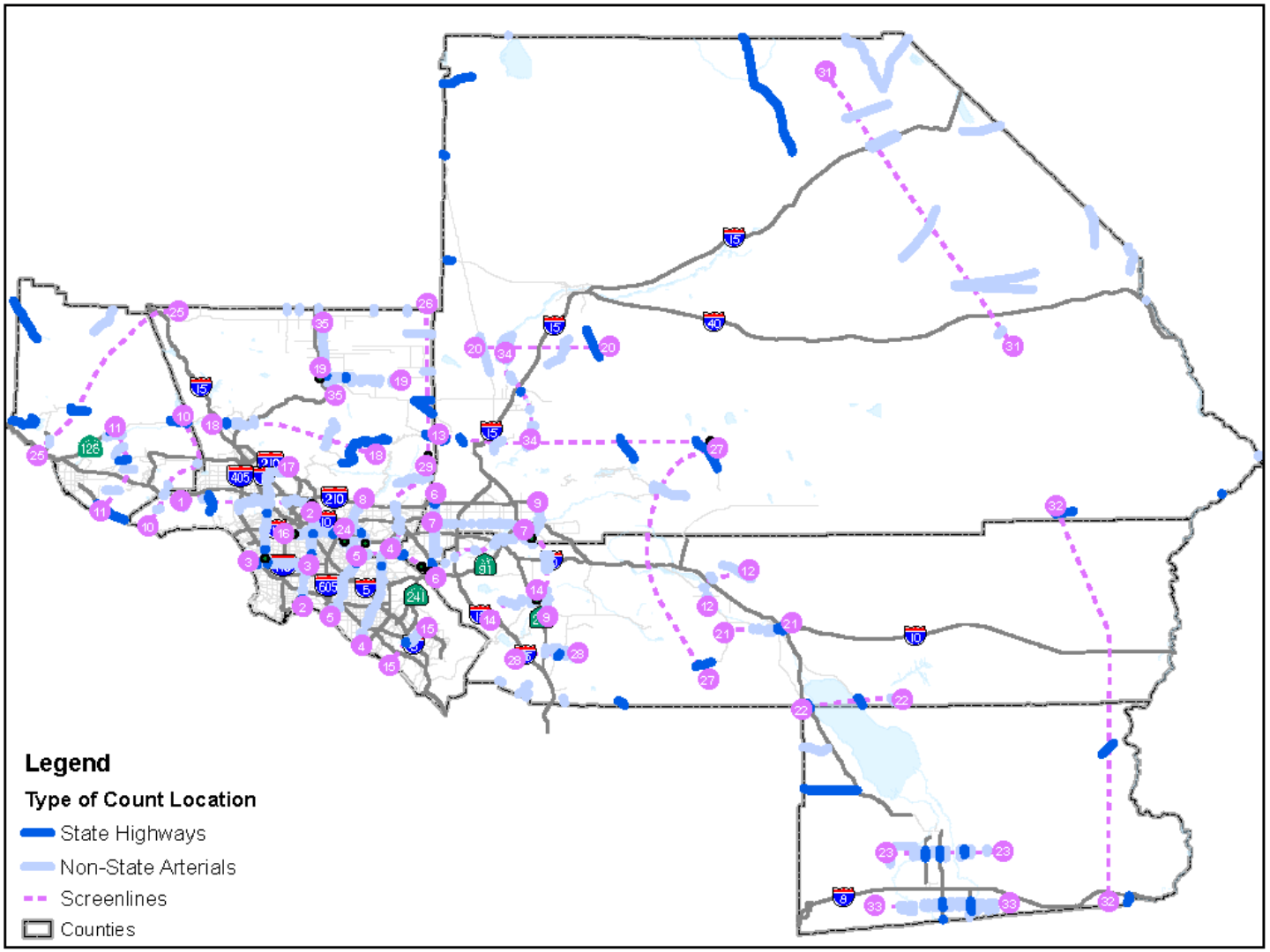
APPROACH

- Screenlines
  - New screenline (# 35) in northern Los Angeles County
  - Minor Modifications to some screenline alignments

SCREENLINE COUNT LOCATIONS - Freeways



SCREENLINE COUNT LOCATIONS – Arterials and Collectors



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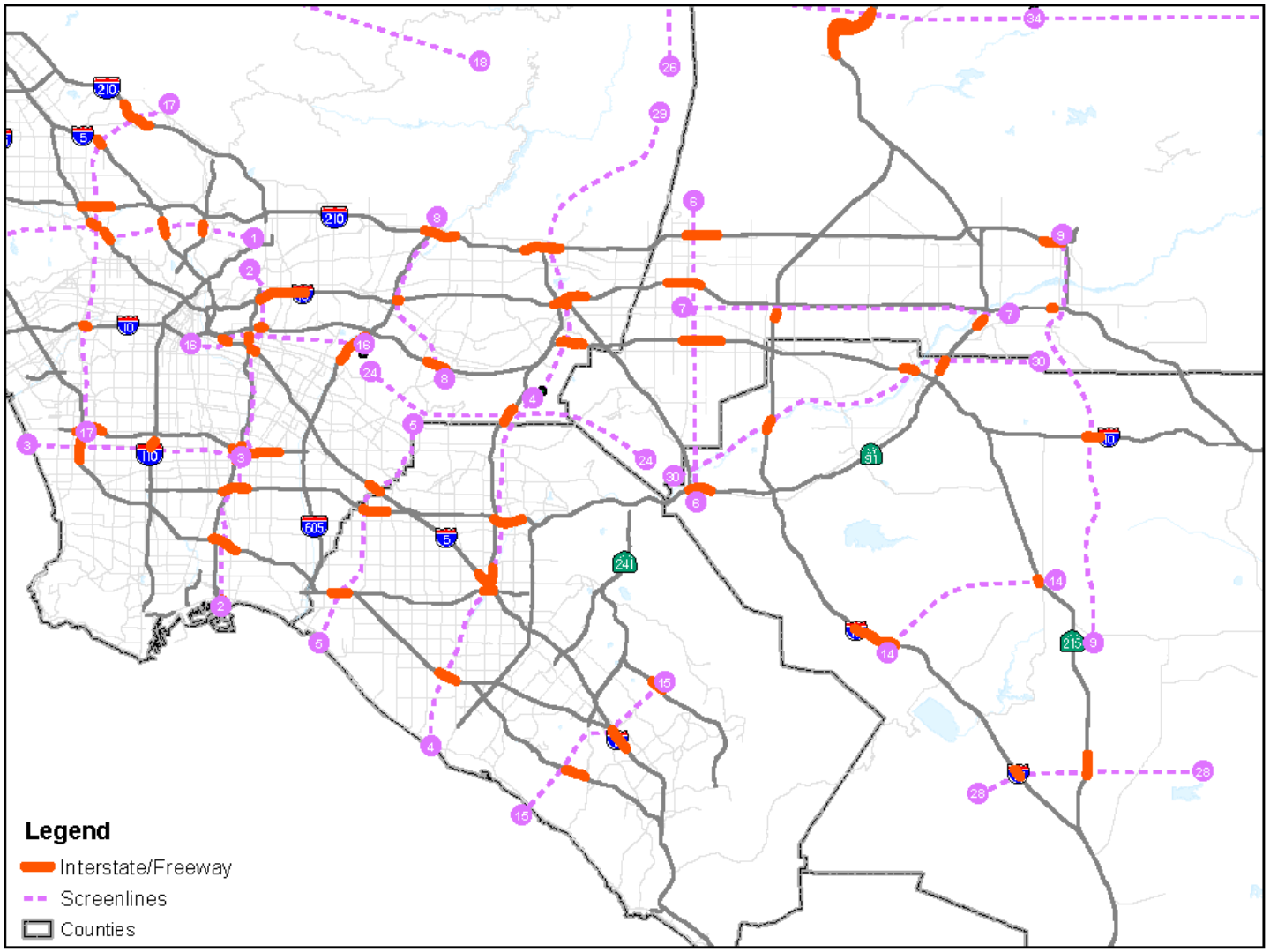

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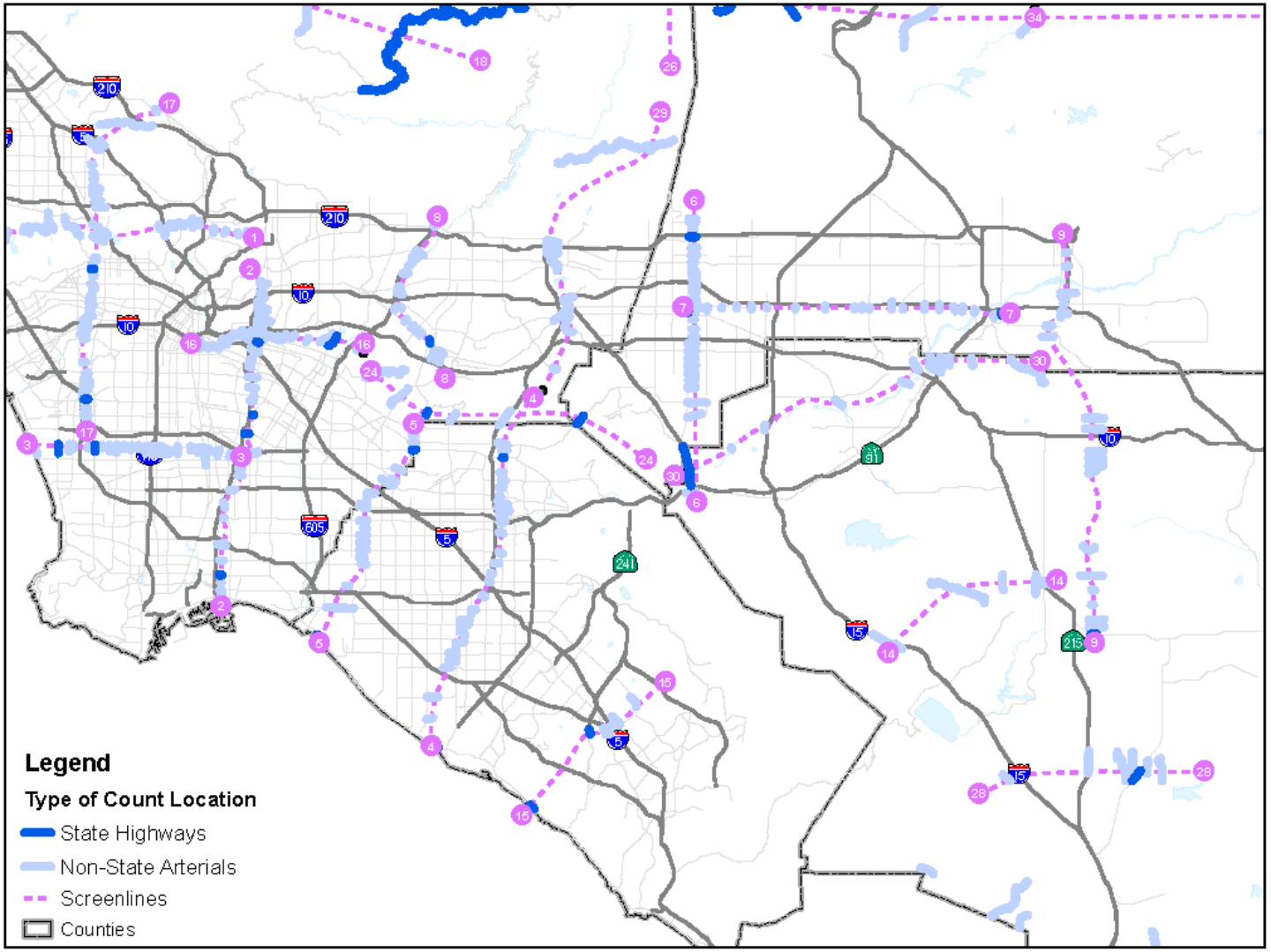


APPROACH

- Data Collection Timeframe
  - Collect on Tuesday / Wednesday / Thursday
  - Avoid major universities on Spring Break (no counts within 5 miles)

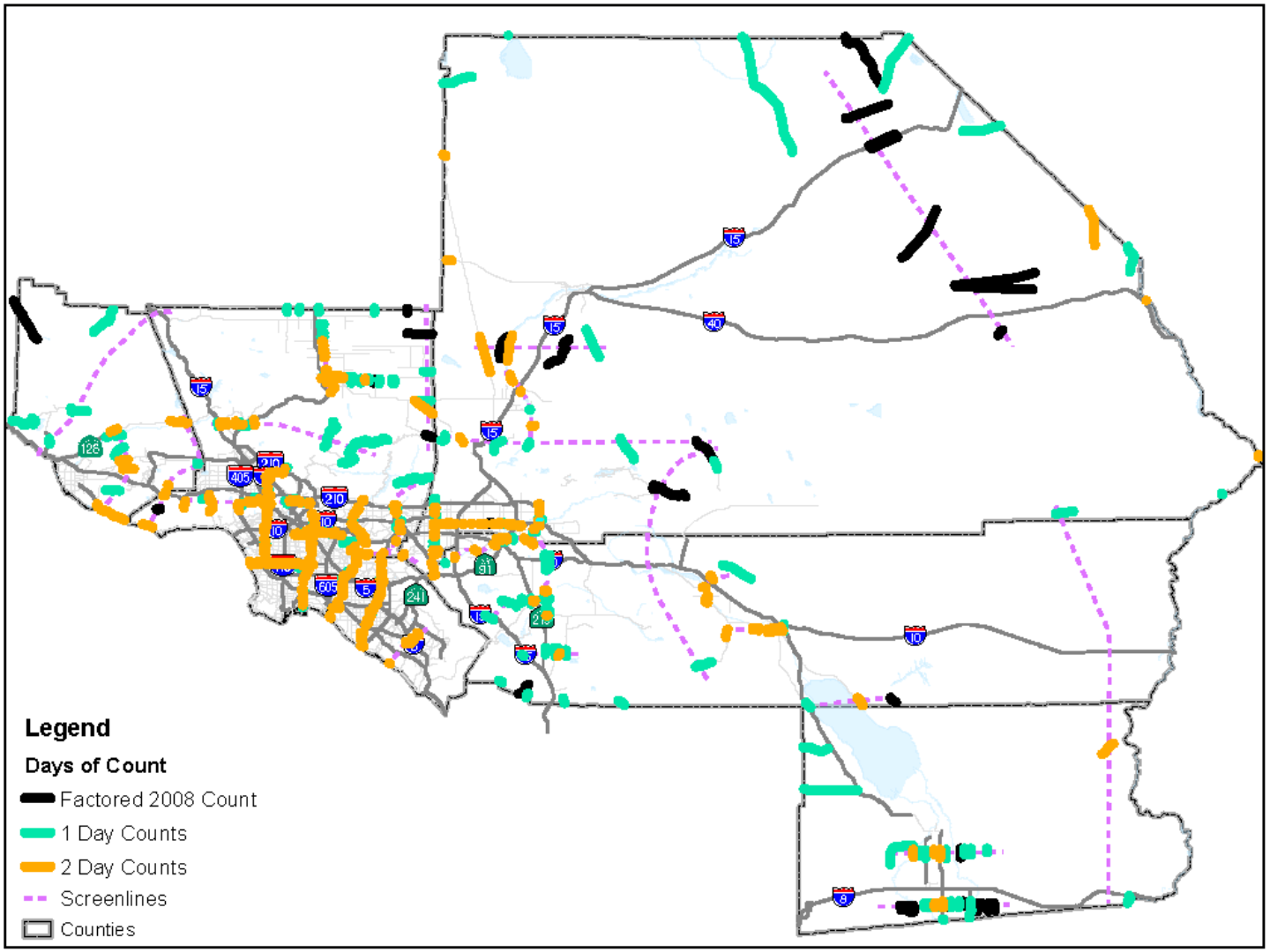
University	Spring Break
California State University – Los Angeles	March 20 - 27
California State University – San Bernardino and Cal Poly Pomona	March 23 - 31
California State University – Fullerton, Long Beach and Dominguez Hills	April 1 - 7
California State University – Northridge	April 8 - 13
University of California, Los Angeles, Riverside, and Irvine	March 23 - 31
University of Southern California	March 18 - 23
Caltech	March 21 - 31

APPROACH: NON FREEWAY LOCATIONS

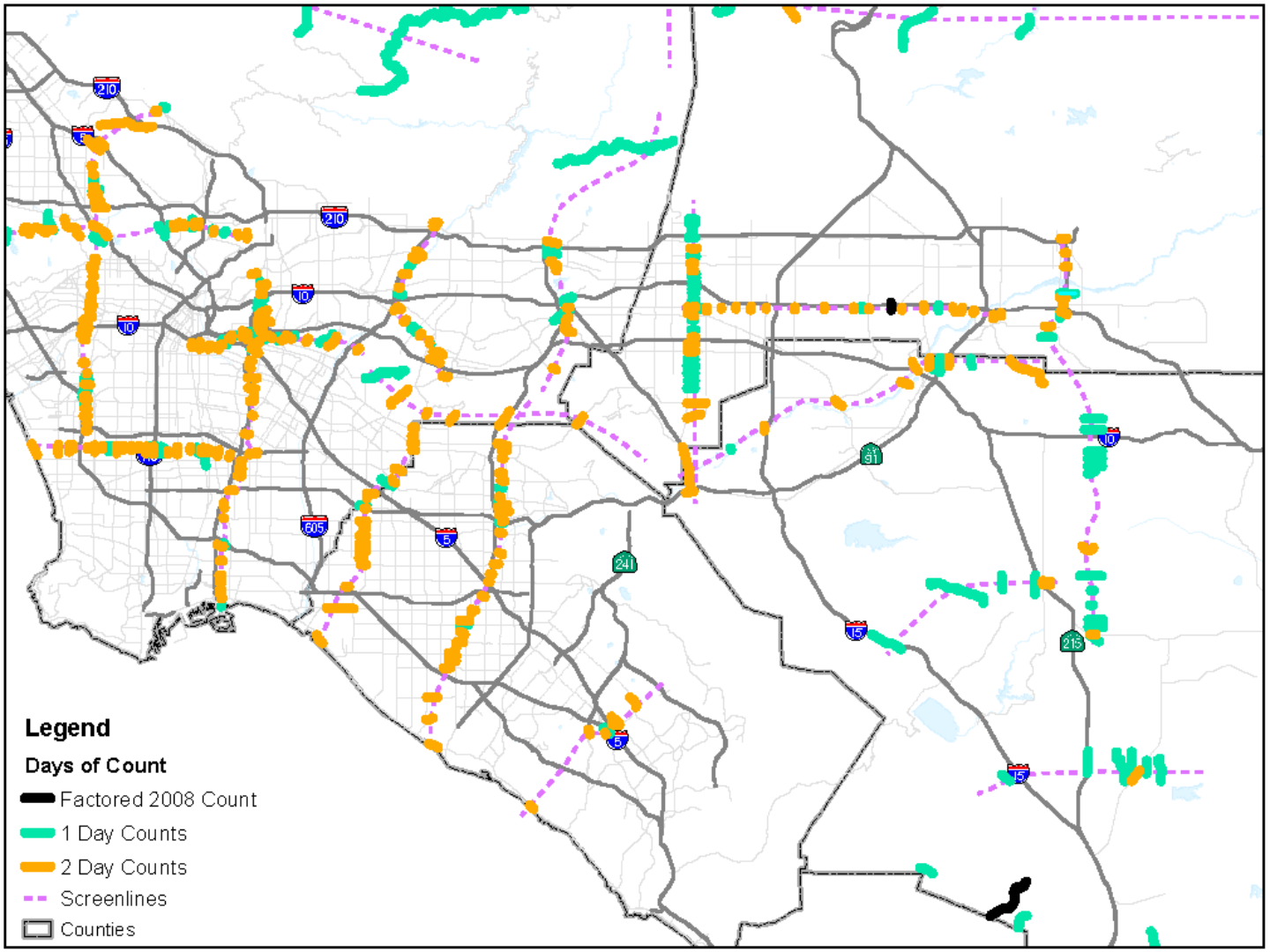
- Three Tiers of Data Collection
  - **2008 Count < 500 Daily Vehicles**
    - Use the 2008 count with a growth factor
  - **2008 Count 500 – 8,900 Daily Vehicles**
    - Collect a new 24-Hour Count
  - **2008 Count > 8,900 Daily Vehicles**
    - Collect a new 48-Hour Count
- All Non-Freeway counts will include the 13 FHWA Vehicle Classifications

Type	Factored	1-day	2-days	Total
State Arterials	3	27	53	**83**
Non State Arterials	32	181	286	**499**
Total	**35**	**208**	**339**	**582**

Count Locations by Duration of Count



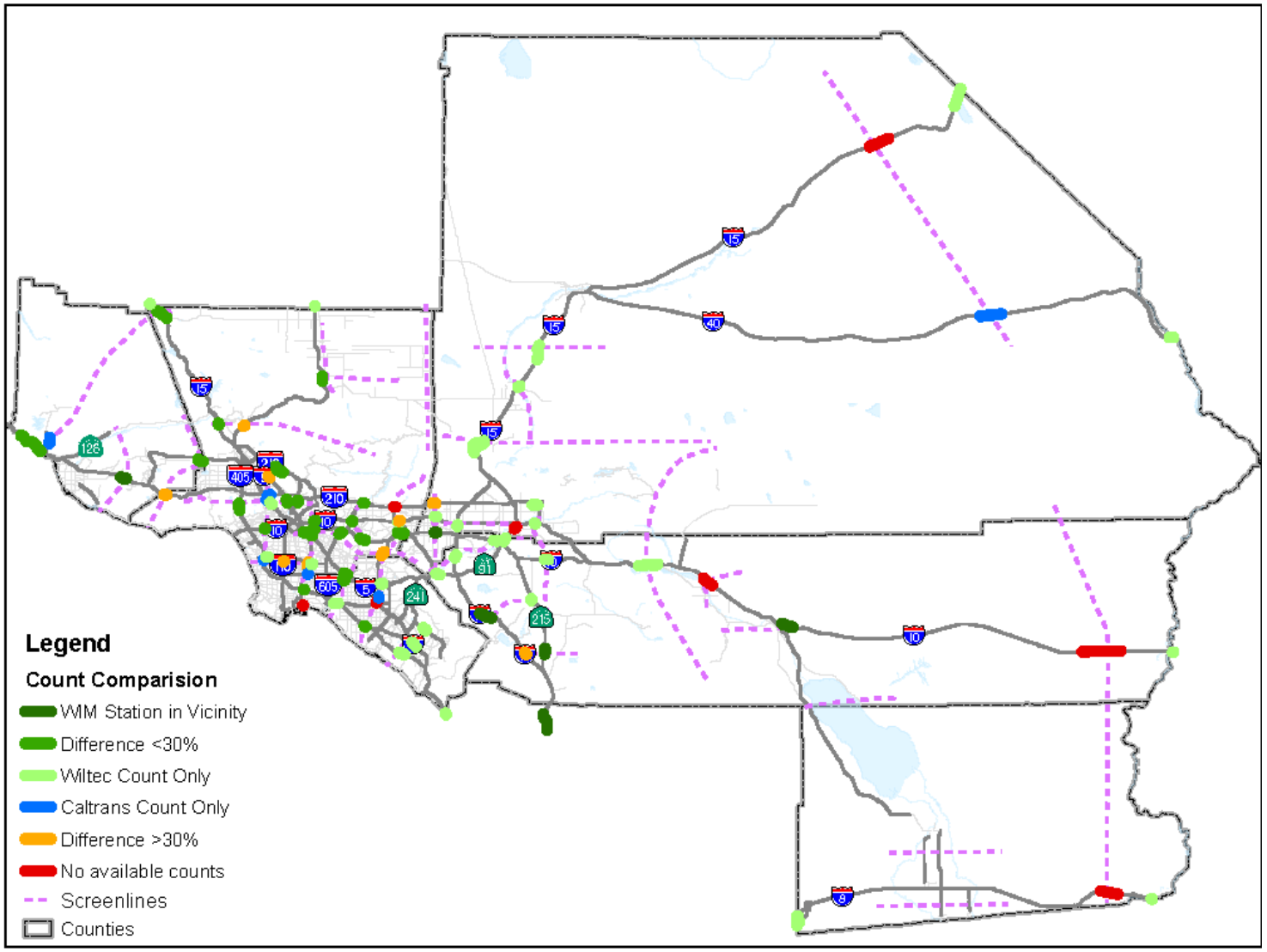
Count Locations by Duration of Count (Inset)



APPROACH: FREEWAY LOCATIONS

- 30 Locations
- Located based on existing data
  - 2010 Counts (Wiltec)
  - 2011 Caltrans Truck Count book
    - AADT – Not ideal for model validation
  - Weigh in Motion Stations (WIM)
- Prioritize count collection in areas with heavy freight activity

FREEWAY COUNT LOCATIONS



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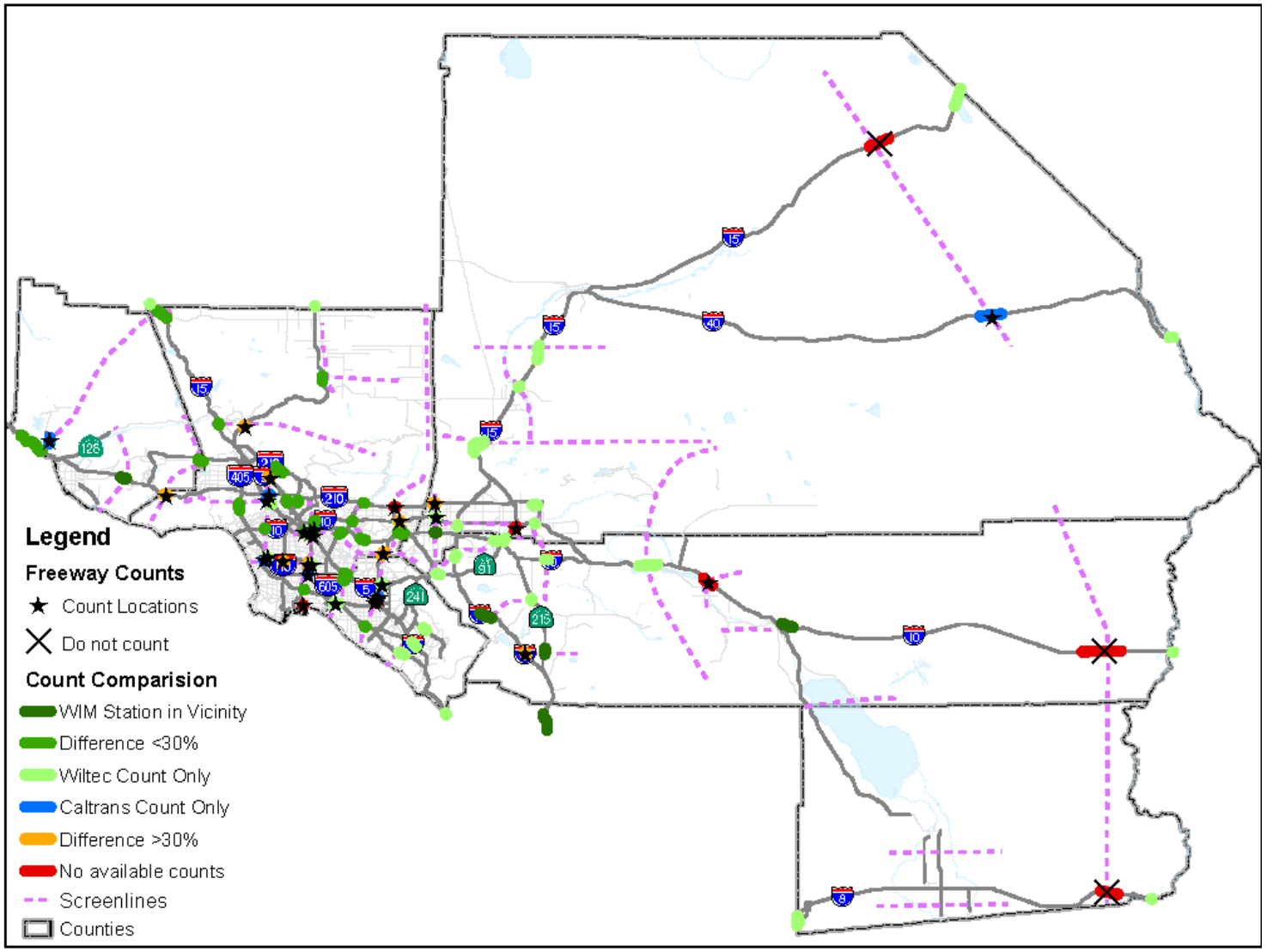

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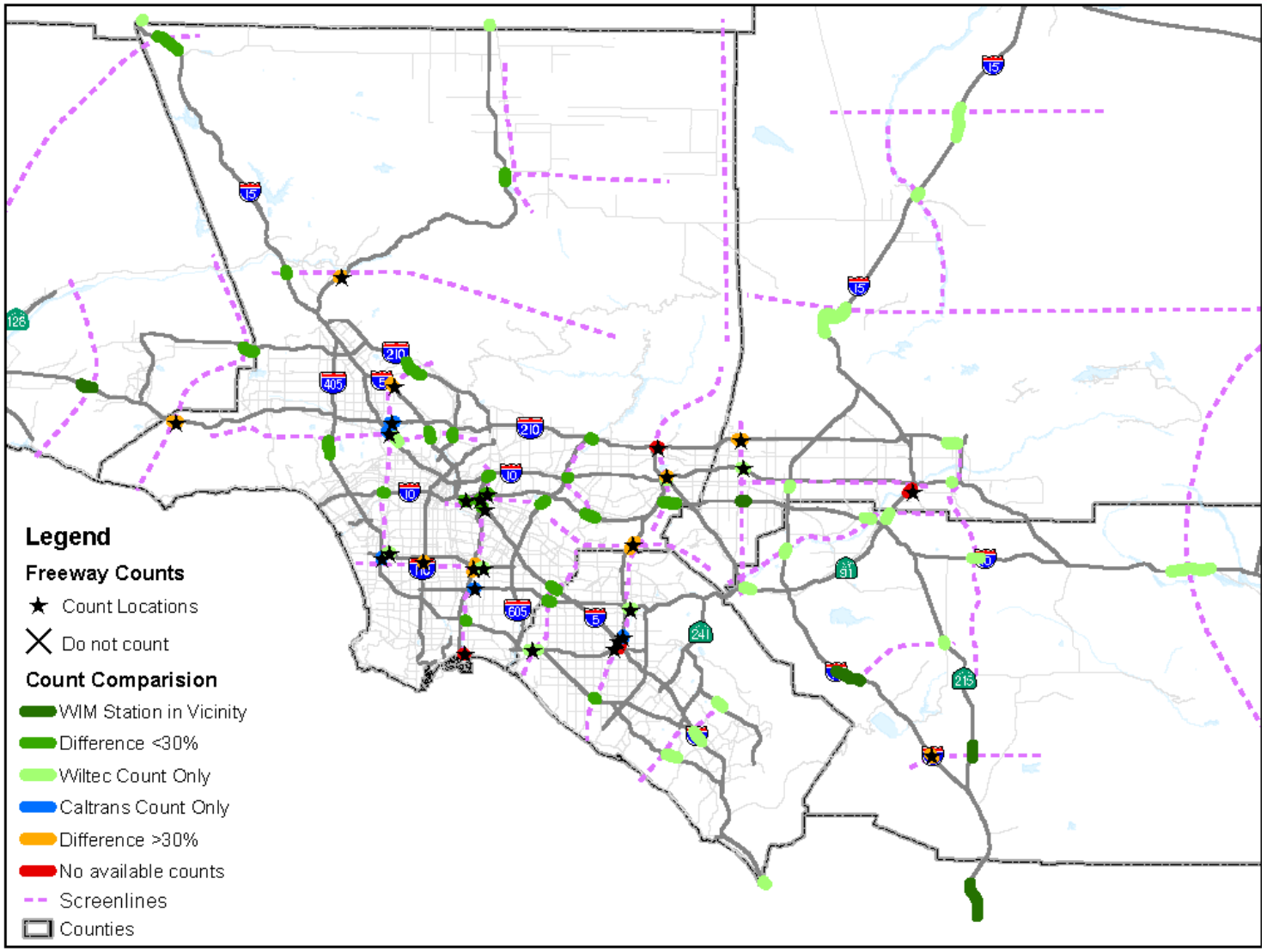

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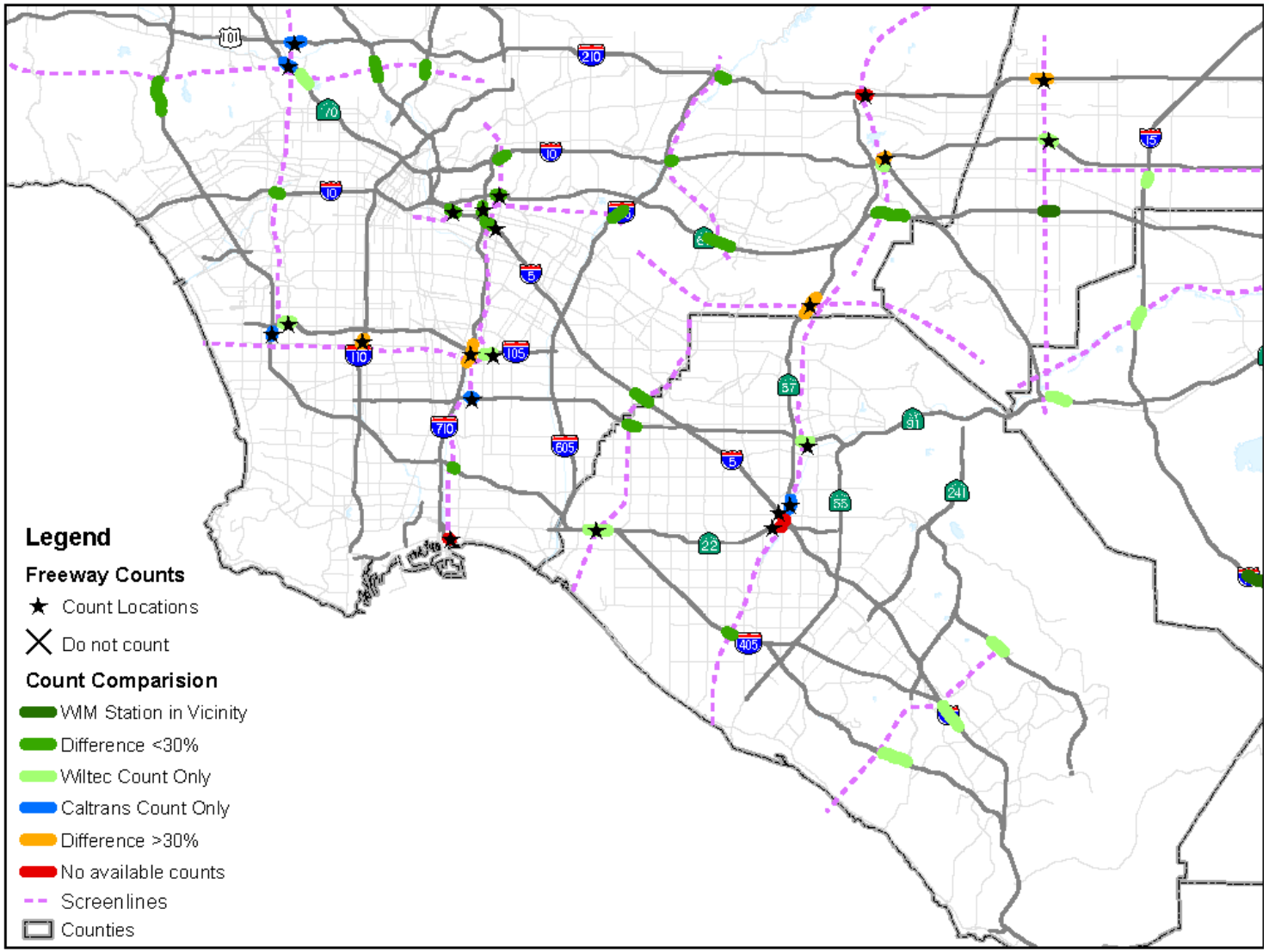
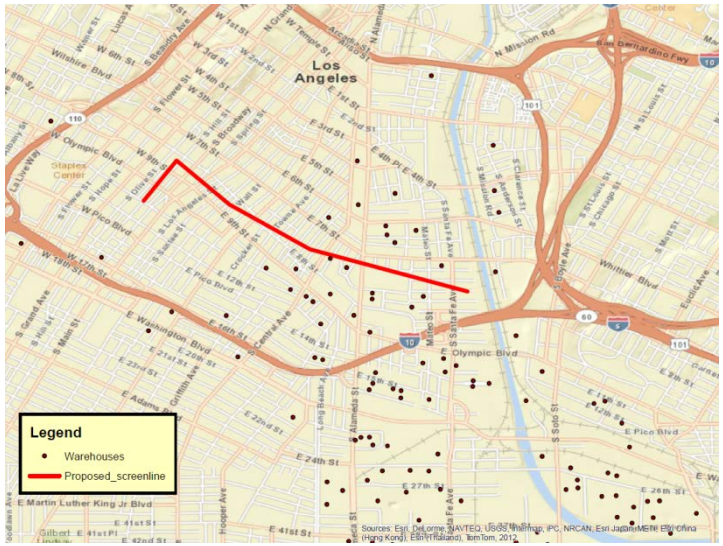
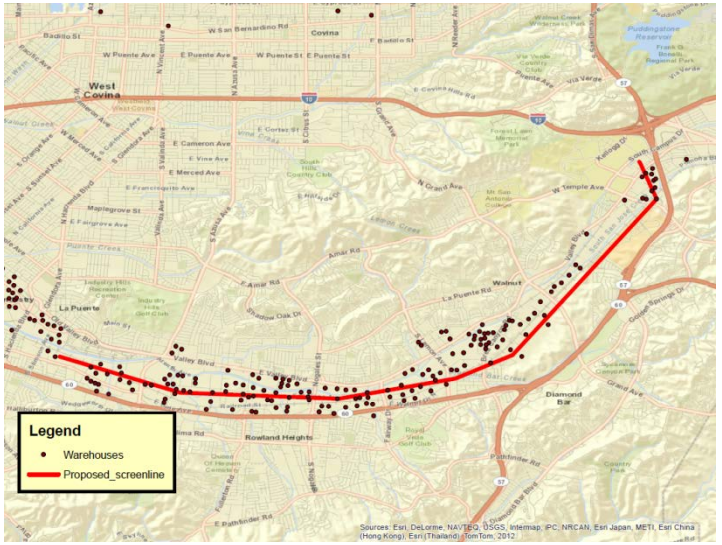


SUPPLEMENTAL DATA COLLECTION

- Supplement cut-lines
  - Numerous upcoming freight studies
  - Arterial-based cut-lines surrounding major industrial and logistics areas





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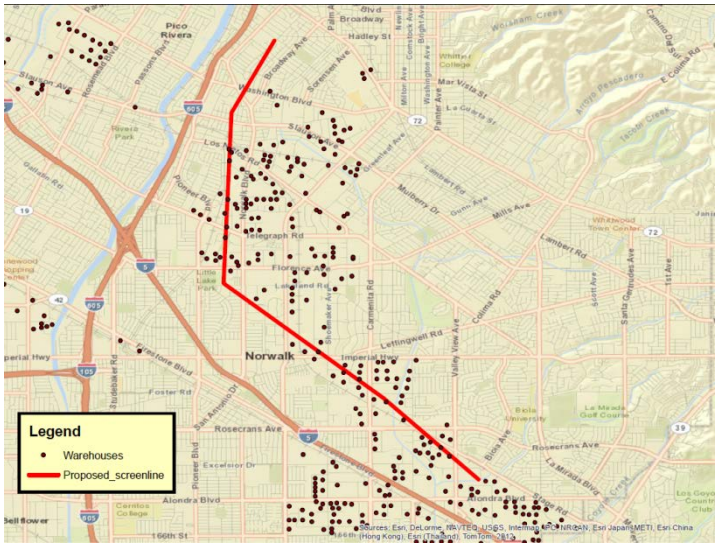
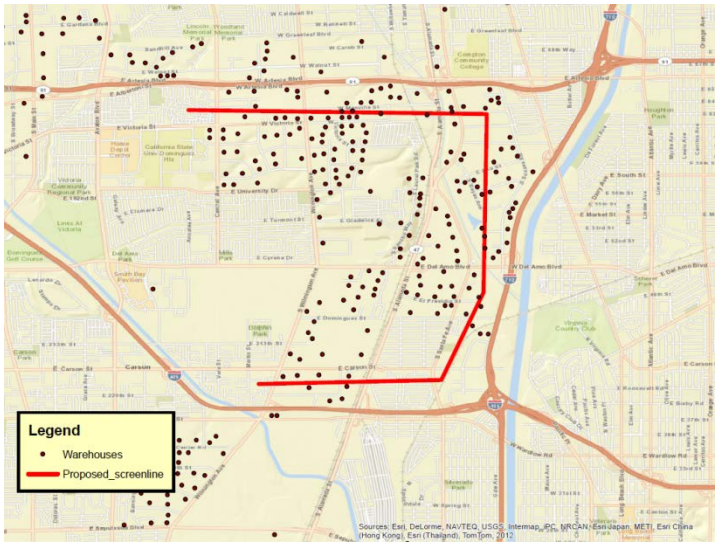
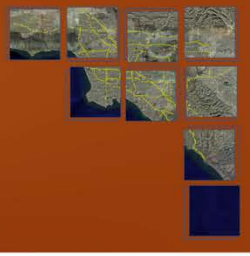




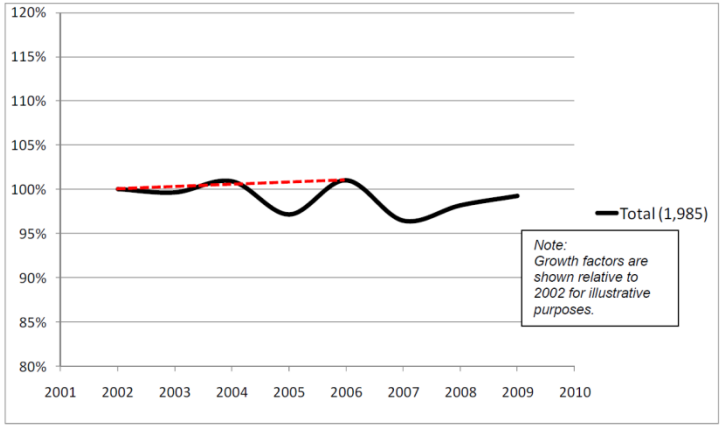
DATA VERIFICATION

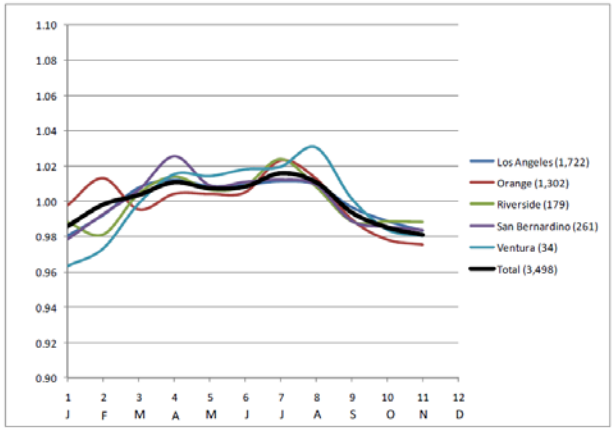


- Review data as counts are collected
  - Compare to 2008 volumes
  - Check for zero-volume periods
  - Check volumes with valid ranges
    - Based on Facility Type and Number of Lanes
- Manually consider suspect data
  - Re-count as needed

DATABASE UPDATE

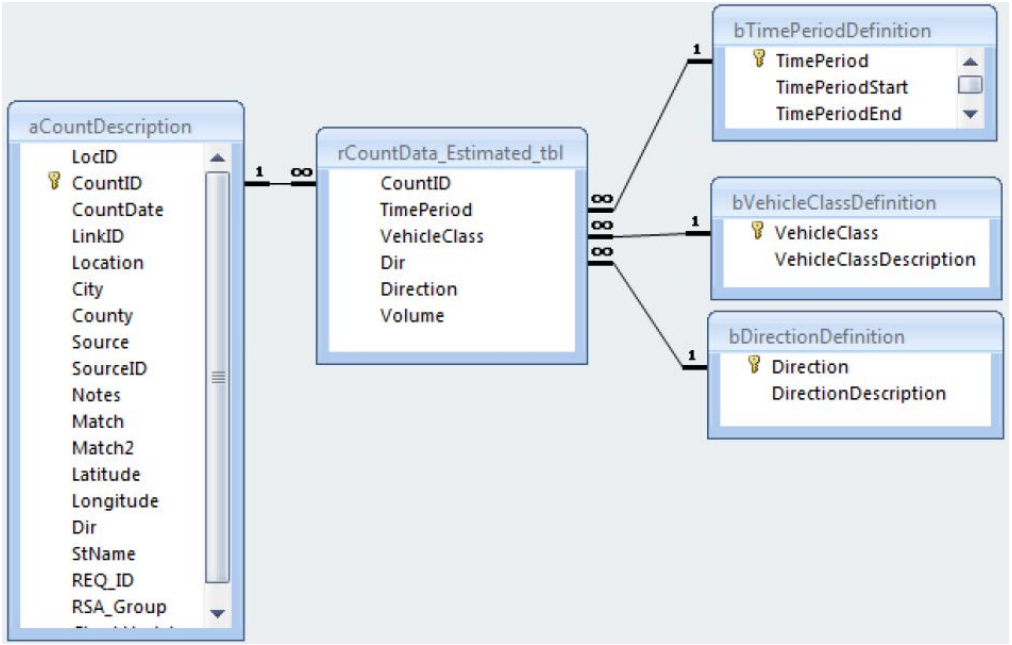
- Update the 2008 Database with 2012/2013 Data
  - Retain final 2008 data and add new 2013 counts
  - Update annual growth factors based on new data
  - Review seasonal adjustment factors and revise if necessary (Use of adjustment factors should be minimal)



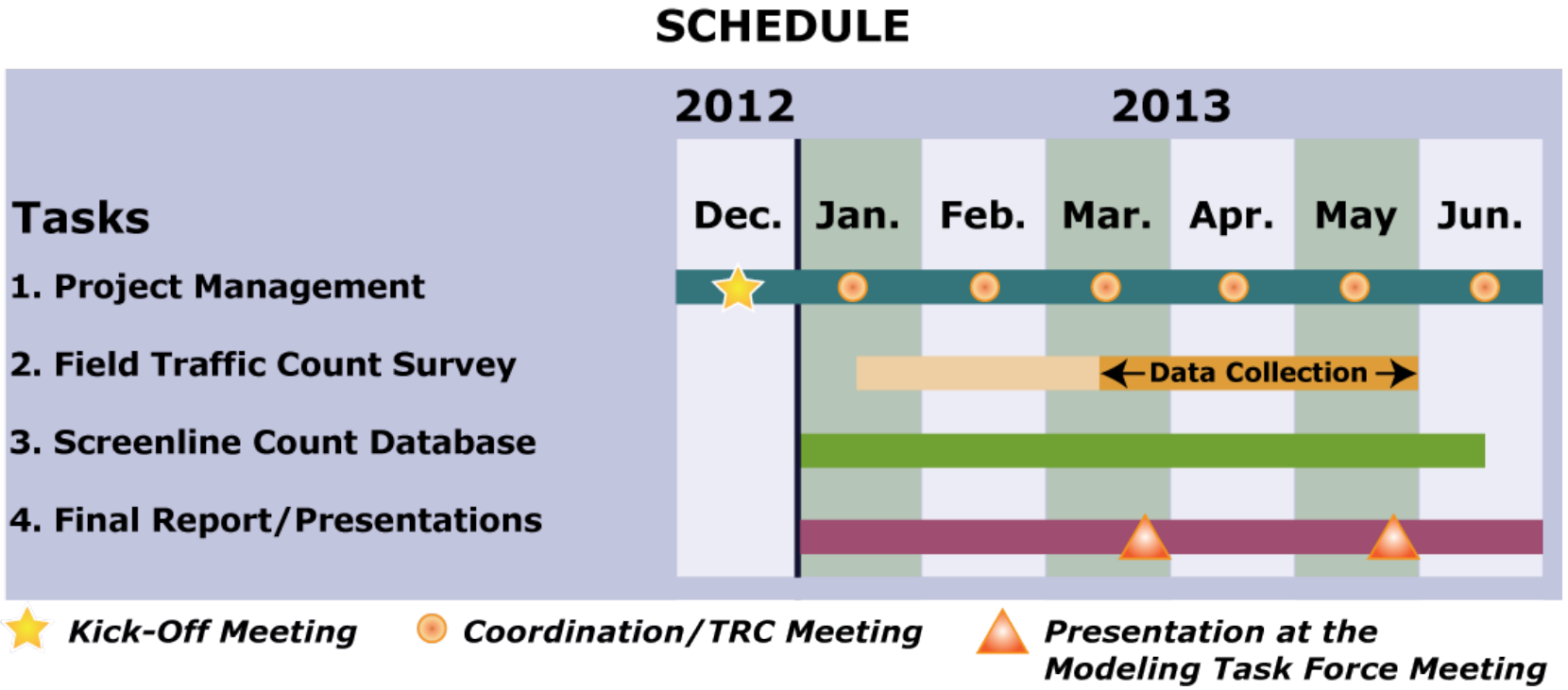


DATABASE UPDATE

- Simplified Database Structure
  - No longer necessary to accommodate:
    - Multiple data sources (Cities, counties, etc.)
    - Arterial data collected outside of the Spring or Fall
  - Minor updates to enhance data accessibility and ease of use
- Updated TransCAD Network Link
  - Link to the latest network (as of May-June 2013)
  - Explore ways to create a more permanent link



SCHEDULE


SCHEDULE
2012
2013
Tasks
Dec.
Jan.
Feb.
Mar.
Apr.
May
Jun.
1. Project Management
2. Field Traffic Count Survey
Data Collection
3. Screenline Count Database
4. Final Report/Presentations
Kick-Off Meeting
Coordination/TRC Meeting
Presentation at the Modeling Task Force Meeting

THANK YOU

Questions?