

DISTRICT
10

2006 National Rural ITS



New Frontiers in Data Collection



Central California Location

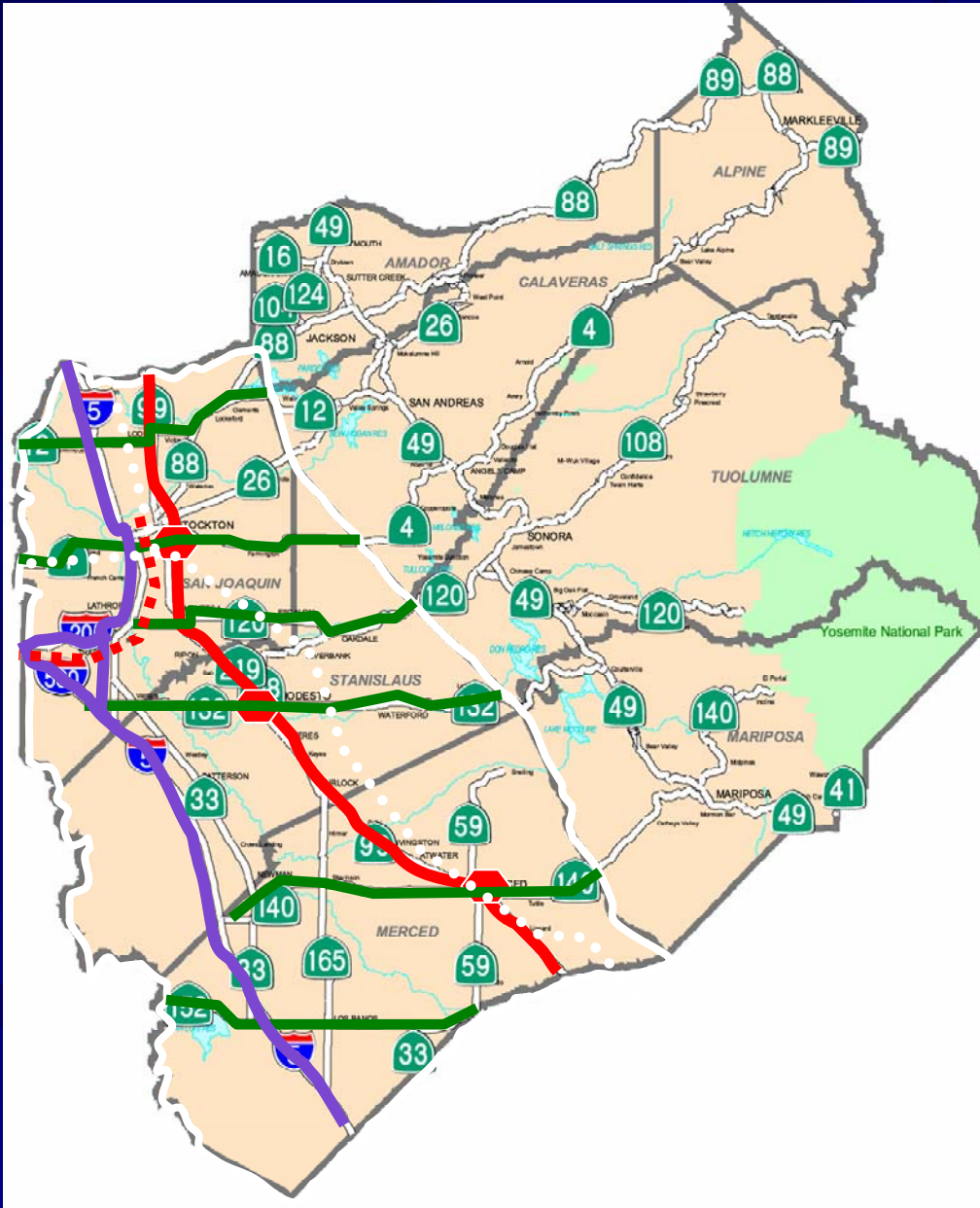


San Joaquin
Stanislaus
Merced
Tuolumne
Amador
Calaveras
Alpine
Mariposa



Valley

Counties: San Joaquin
Stanislaus
Merced



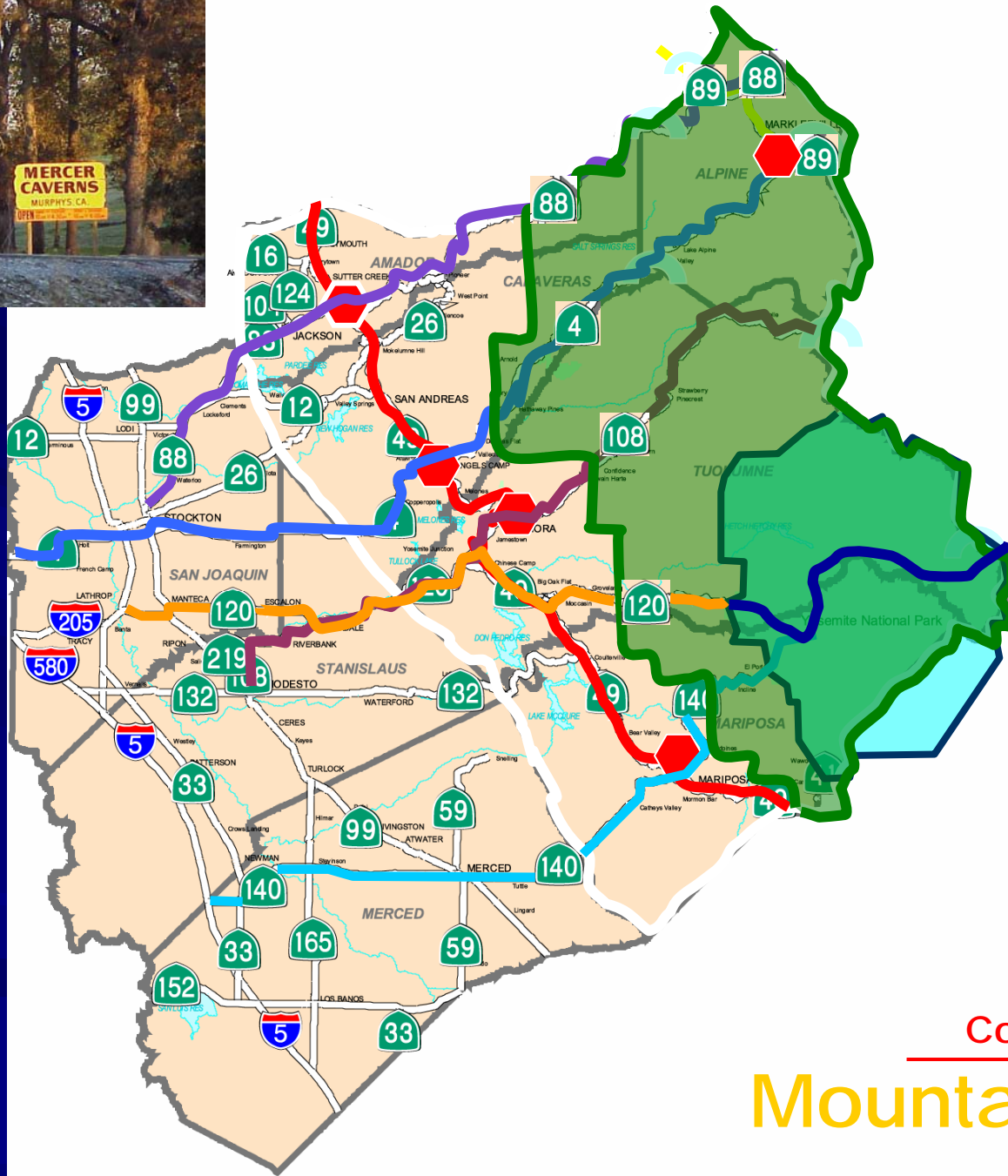




Alpine
Amador
Calaveras
Tuolumne
Mariposa

Counties:

Mountains



Outline

- Why
- Overview of System
- Wizard
- Application
- Database
- Next Steps
- Thanks

Why ask Why?

- Money, high cost of old solution
- Maximize worker's efficiency
- Older equipment, no support
- Environmental concerns of trenching
- Needed near-real time traffic data

Why ask Why?



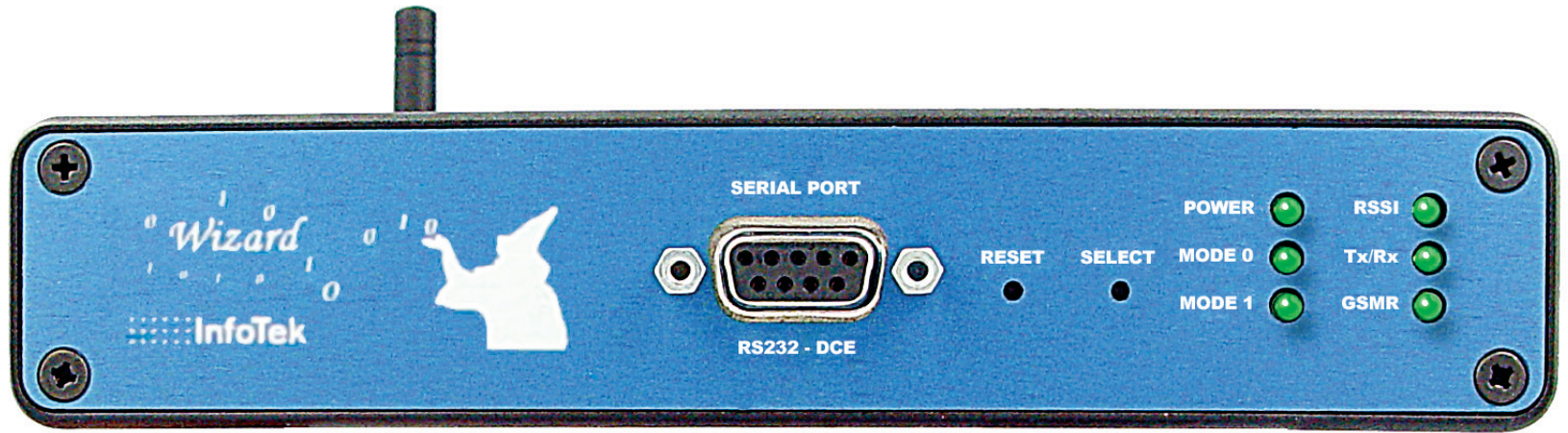
Overview

- Detection of Traffic (Loops, Radar, Etc.)
- Wizard Collects Data
- Transmits into Network
- Received into Database
- Alarms, Triggers and Archived

Wizard

- Cellular Modem
- Java Virtual Machine
- Open Standard
- Low Power Required
- Easy to Install, Small Size

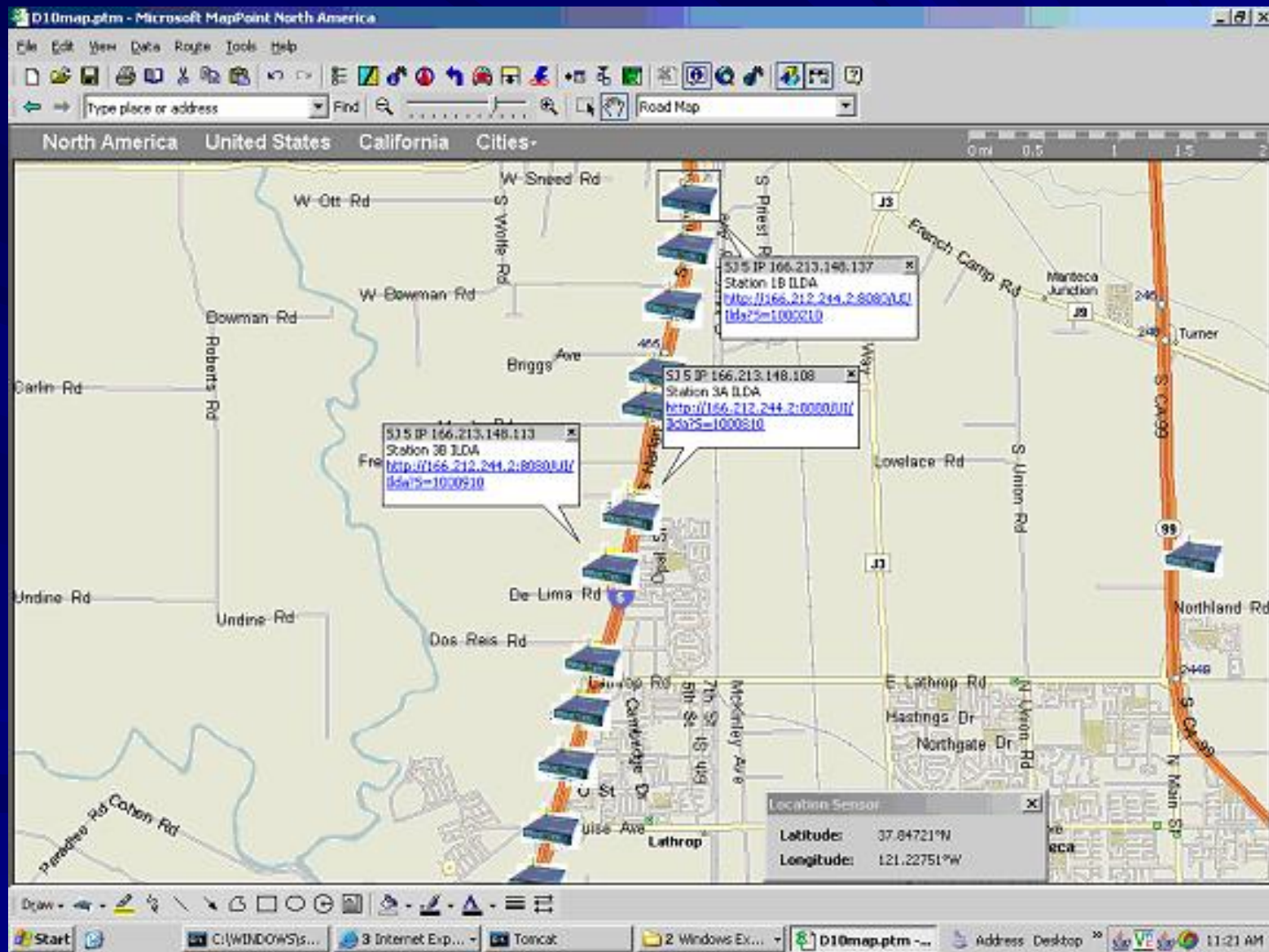
Wizard



Application

- Inductive Loop Detector Application (ILDA)
- Volume
- Speed
- Length Class
- Real Time Telnet Data

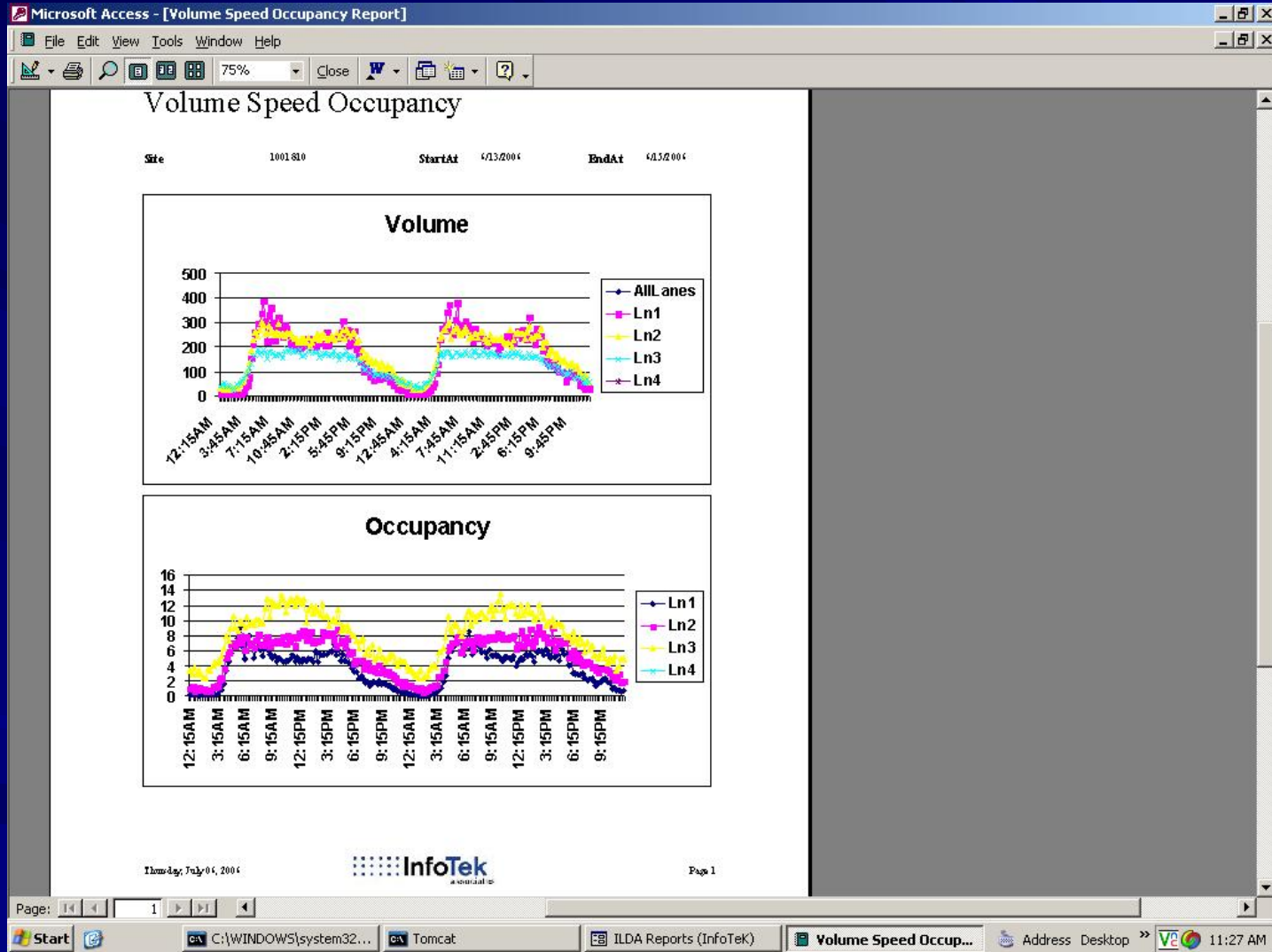
Application



Database

- Middleware (Standalone PC)
- Traffic Bin Data (Census)
- Alarms with Speed Algorithms
- Alerts to Changeable Message Signs
- Feeds to Performance Measurement System (PeMS)

Database



Where do we go from here?

- Statewide (D-11 Rural San Diego)
- Study Report (Validation Pro)
- Monitoring Corridor (Rt 120 45 ft bus)
- 300 units Dec 2006
- Over 700 units by 2007

Where do we go from here?



Thanks

- Infotek

- Cingular

- Janus

- M2M for the Gold Value Chain Award