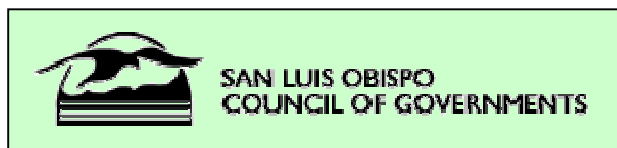# SLOCOG 511- Overview

- Franchising of the SANDAG 511 application and infrastructure
- Team successfully built the SANDAG 511 systems
  - ICx Transportation Group, Inc
    - Project management, infrastructure, hosting
  - Telvent Farradyne, Inc
    - IVR application
  - Iteris, Inc.
    - Data aggregator

```
                    ┌─────────────────────────────────┐
                    │   SAN LUIS OBISPO               │
                    │   COUNCIL OF GOVERNMENTS        │
                    └─────────────────────────────────┘
                                    │
                    ┌─────────────────────────────────┐
                    │      Project Manager            │
                    │   Peter Dwyer, TI Ventures      │
                    └─────────────────────────────────┘
                                    │
                    ┌─────────────────────────────────┐
                    │   Deputy Project Manager        │
                    │    Ken Aparri, TI Ventures      │
                    └─────────────────────────────────┘
                          │                    │
        ┌──────────────────────────┐  ┌──────────────────────────┐
        │  Telephony Systems Lead  │  │  Data Aggregation Lead   │
        │  Russ Elovitz, TI Ventures│ │  Tom Petrosino, Iteris   │
        └──────────────────────────┘  └──────────────────────────┘
```
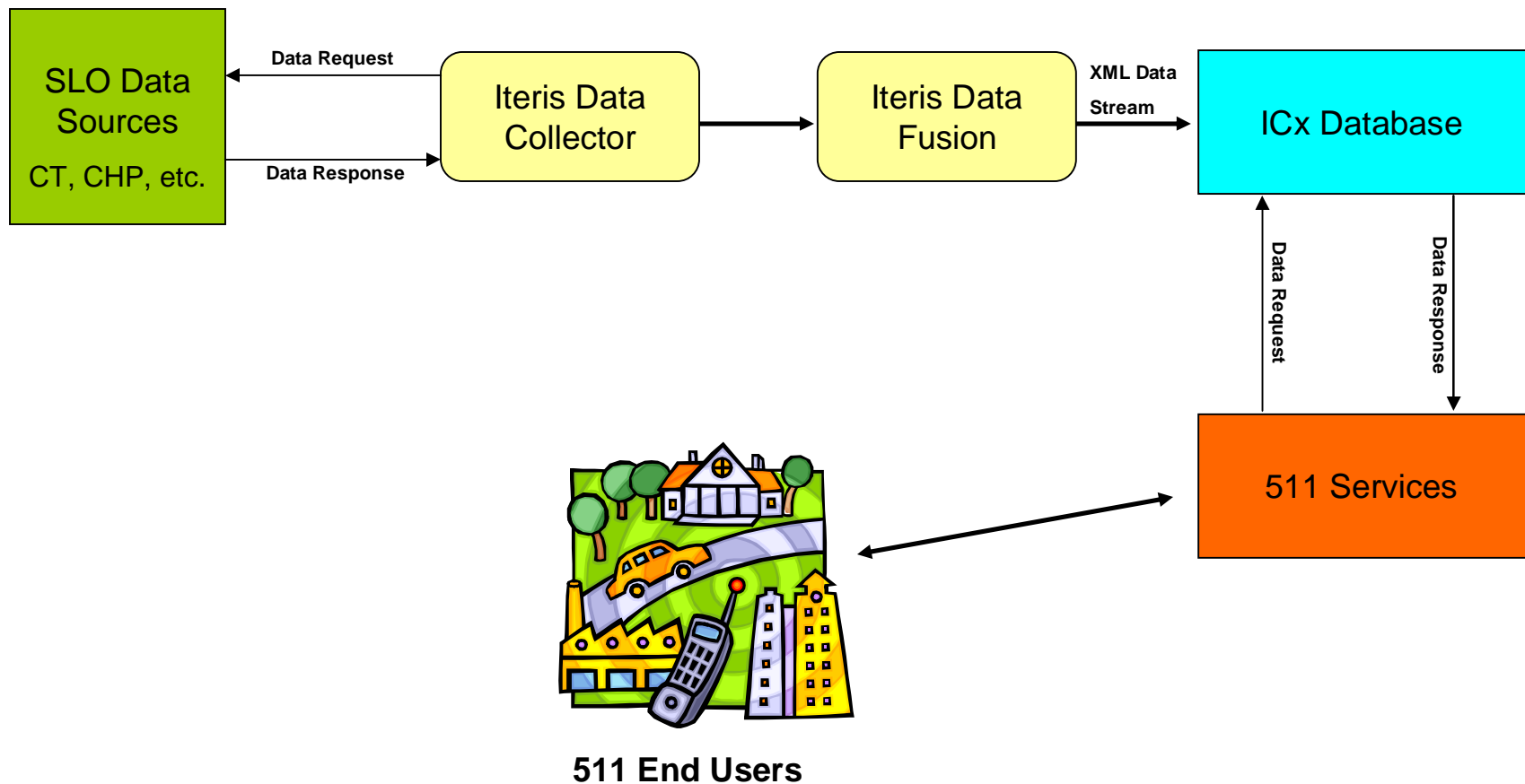
Our IVR/Telco Approach

- Leverage existing and future investments in SANDAG 511
  - Telephony Systems
  - Hosting Facilities
  - Telco Agreements
    - Coordinated wireless conversion with region's 211 implementation

- Leverage Team's existing and future investments in Traveler Information Systems
  - Business relationships
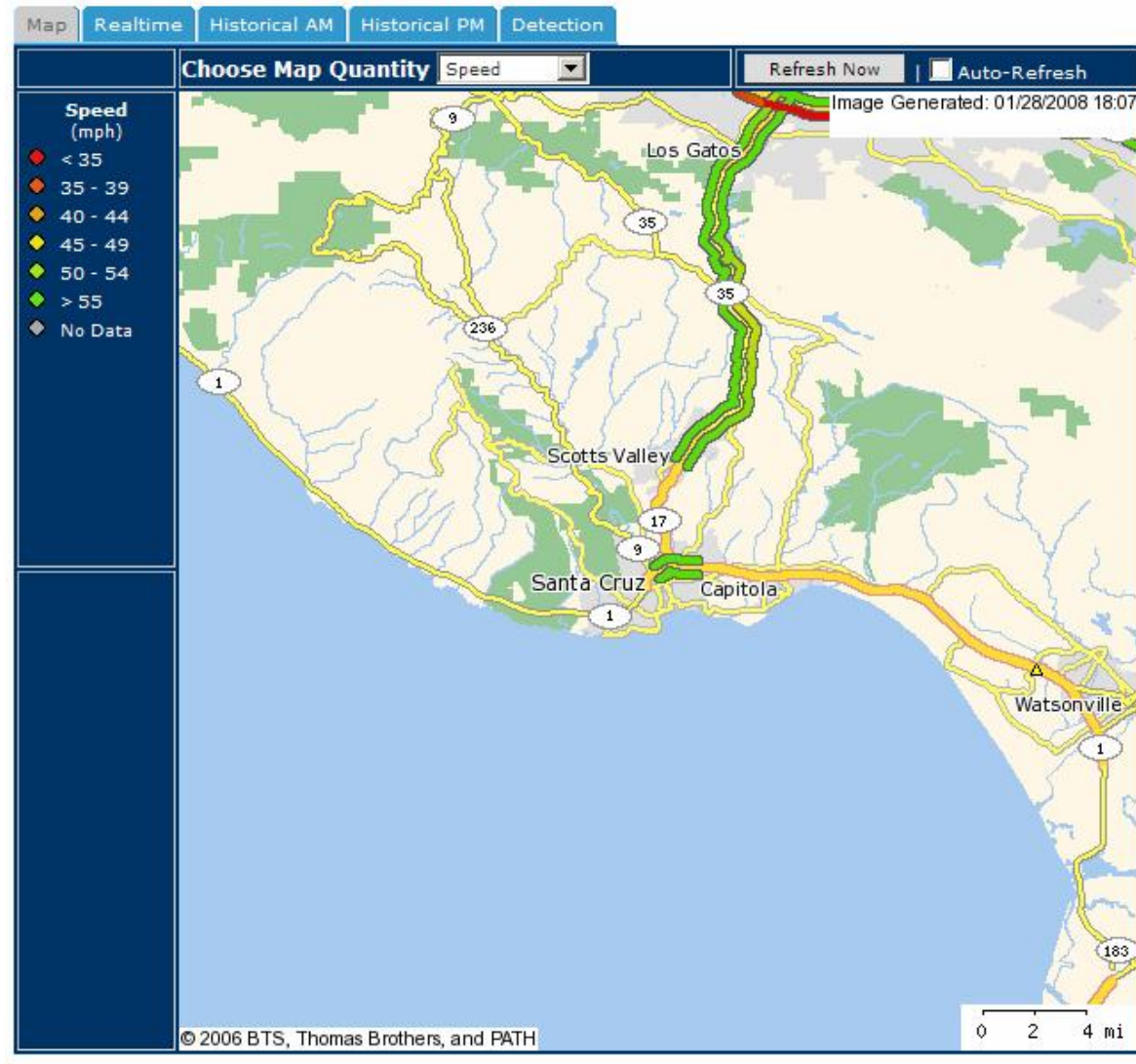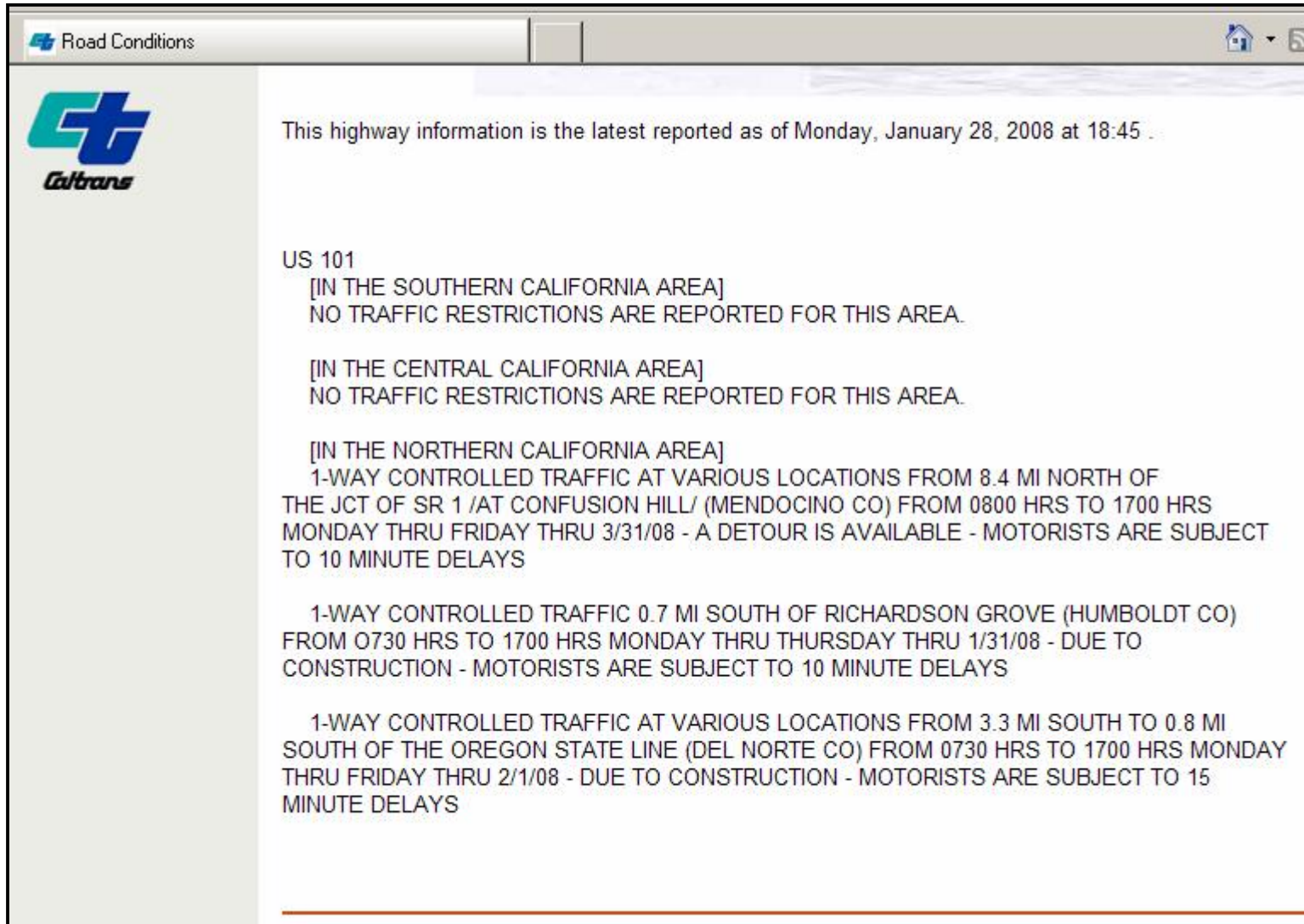 - Product development

511 Telco Architecture

Los Angeles

PSTN Carriers

TDM

LA Outbound GW's

VoIP Network Routers — **SIP** — Fiber Transport Switch — **Primary Link** — Gigabit Ethernet — Fiber Transport Switch

San Diego

Border Controller's

SIP

LA Inbound GW's

DS3 Mux

TDM

InterMetro

Primary Connection Provides Direct SIP to Servers in San Diego
Assign a Primary DID to Server in SD

Network Router — Co-location Network

511 Servers

Data Aggregation Approach

SLO Data Sources

CT, CHP, etc.

Data Request

Data Response

Iteris Data Collector

Iteris Data Fusion

XML Data Stream

ICx Database

Data Request

Data Response

511 Services

511 End Users

Potential Data Sources

- California Highway Patrol
- Caltrans District 5 Detection
- PeMS
- California Highway Information Network (CHIN)
- Caltrans Planned Work / Road Information (Planned Lane Closure)
- Weather information
- Tourism data – depending on source and format (and frequency of update)
  - Automated? Or static?

PeMS – District 5 Coverage

California Highway Information

Road Information
(Planned Lane Closures)

CALTRANS

SAN LUIS OBISPO COUNTY

TRAFFIC UPDATE

The following is a tentative schedule for State Highway Construction, Maintenance, and Permit projects for the week of:

January 27, 2008 - February 2, 2008

THIS SCHEDULE IS SUBJECT TO CHANGE DEPENDING ON WEATHER CONDITIONS.

NO TWO CONSECUTIVE RAMPS CLOSED AT THE SAME TIME.

HWY	DATE	TIME	LOCATION	IMPACT ON TRAFFIC	PURPOSE
1	01/30/08 - 02/01/08 P1ND	8:30 AM - 3:30 PM	CASITA STREET PM 11.4	BOTH DIRECTIONS INTERMITTENT #1 OF 2 LANES, RIGHT SHOULDER, BIKE LANE 0 - 5 MINUTE DELAY	UTILITY WORK
1	01/28/08 - 02/01/08 P1OD	9:00 AM - 3:00 PM	GRAND AVENUE PM 14.1	BOTH DIRECTIONS #2 OF 2 LANES 0 - 5 MINUTE DELAY	POTHOLING
1	01/28/08 -	6:00 AM -	SOUTH JCT HWY 101 TO WESTMONT DRIVE	BOTH DIRECTIONS	RDWAY REHABILITATION

Done   Internet

CHP Incident Data

Data Identification Steps

- Reach out to District 5 TMC staff
  - Freeway detection – existing and planned
- Confirm CHP data format and availability
- California Highway Information Network (CHIN)
  - project stakeholder review
- Caltrans Planned Work / Road Information (Planned Lane Closure)
  - project stakeholder review
- Determine data transfer protocols between Iteris data collection sources / processes and ICx

511 Highway Signs

- Replacement of ~12 Sign Panels
  - Ridesharing Info / 541-CARS
- Field Surveys conducted of Existing Signs
  - Sign size, Post spacing, Access to signs
- Choose Existing Sign Design (?)