



**Gateway Cities  
Traffic Signal Synchronization and  
Bus Speed Improvement Project  
I-5/Telegraph Road Corridor**

**ATMS User Requirements Presentation  
Siemens Energy & Automation, Inc.  
Gardner Transportation Systems  
06/21/01**



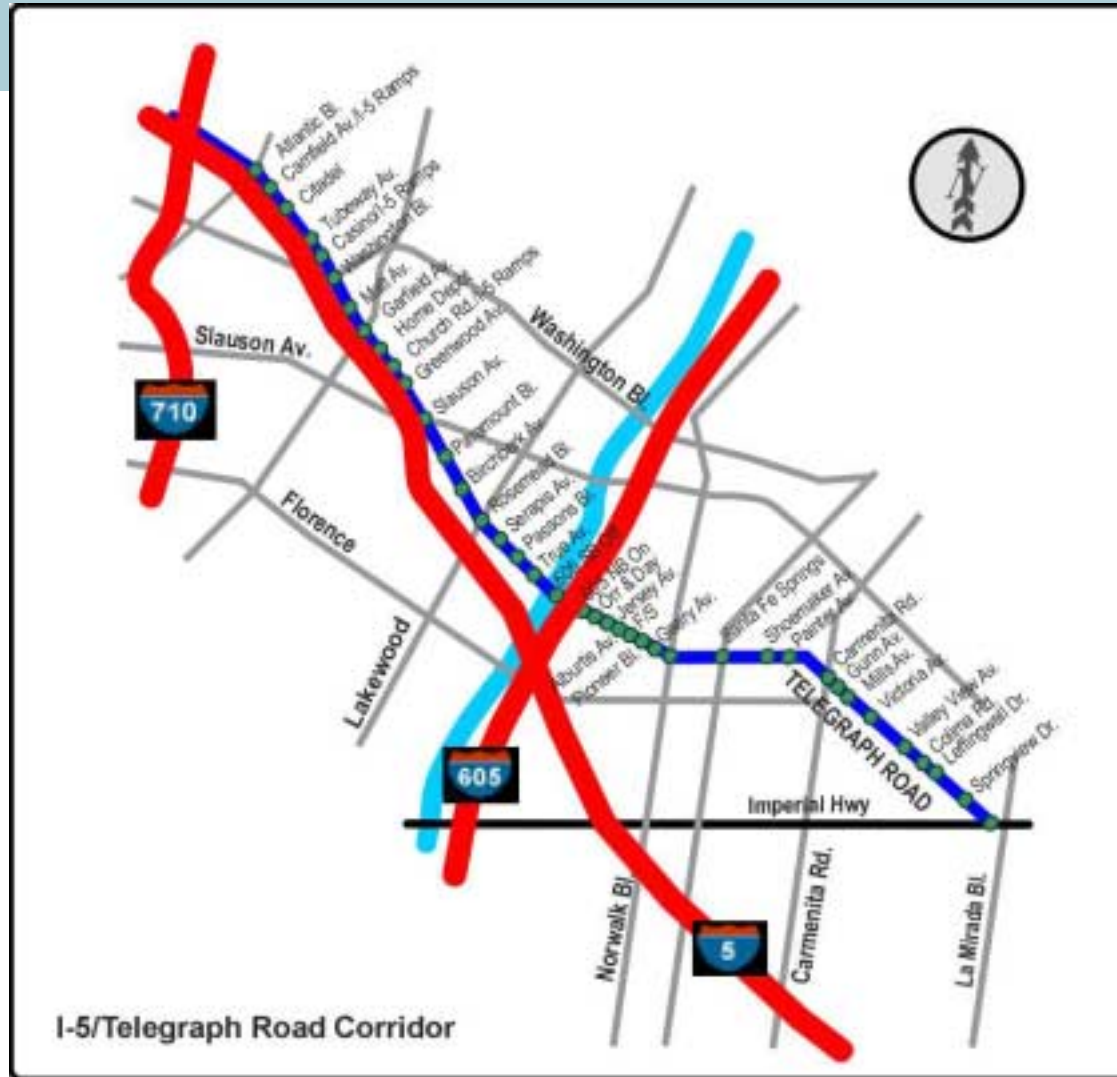


## Today's Agenda

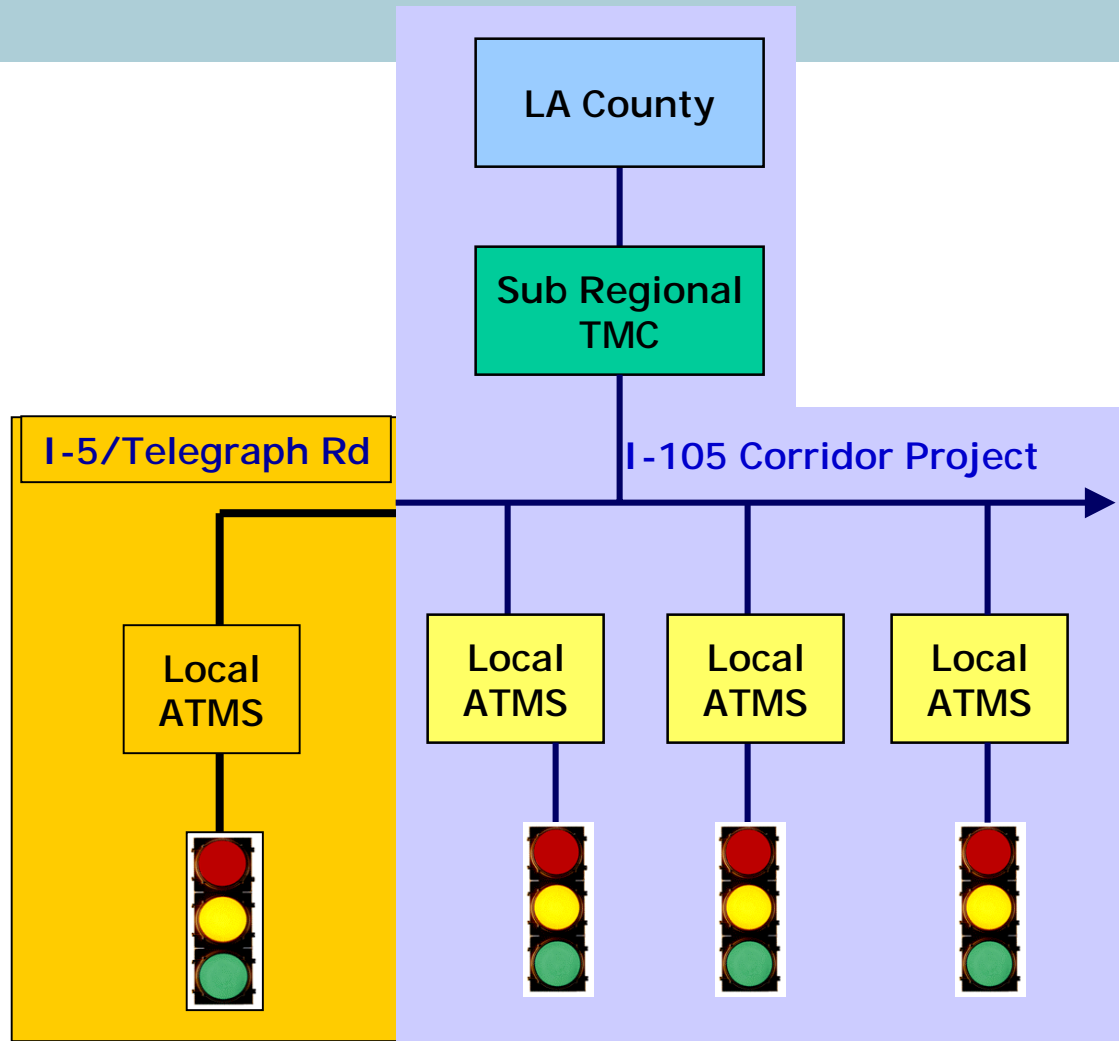
- Review of Overall Project
- Project Status
- ATMS User Requirements
- Next Steps



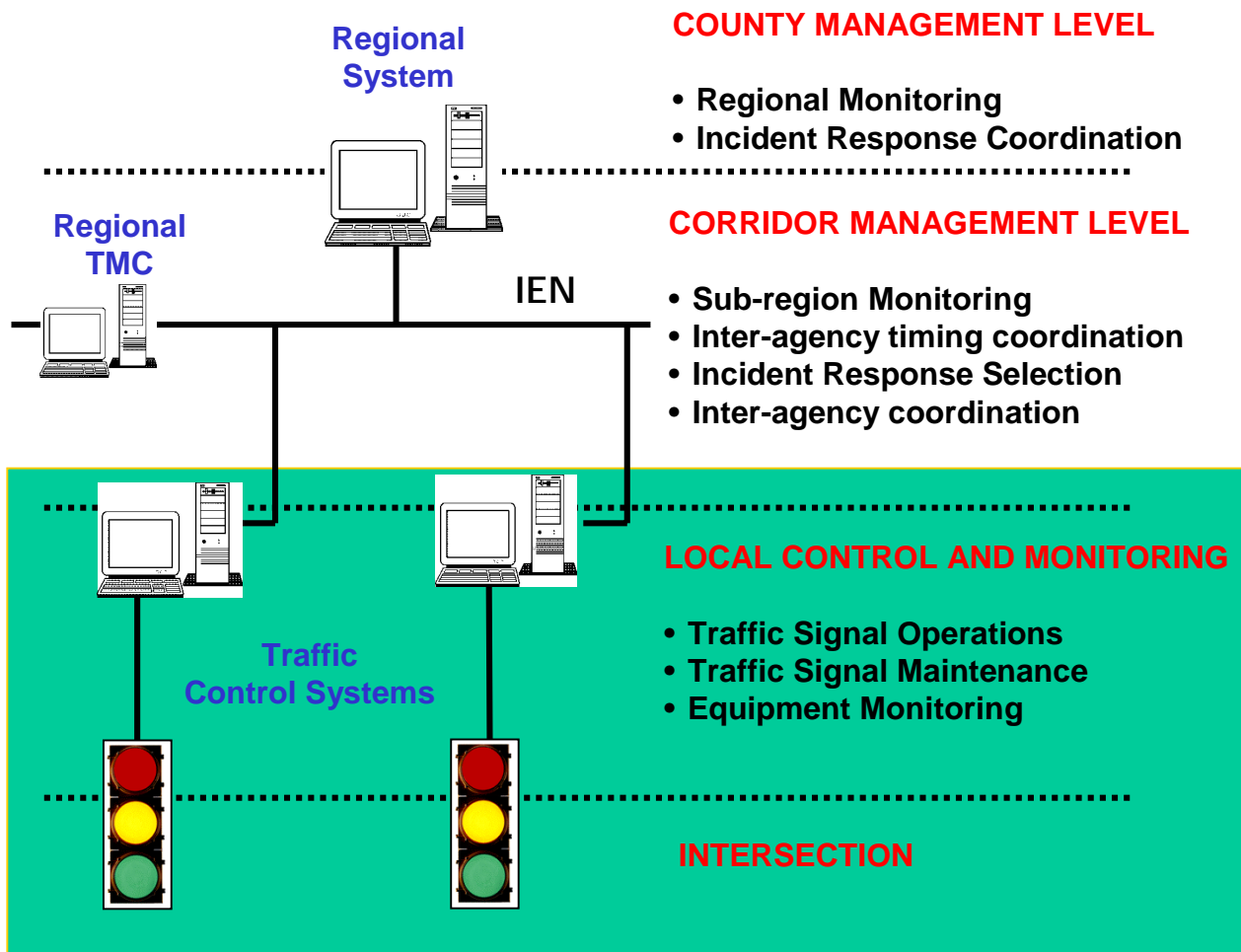
# Project Area



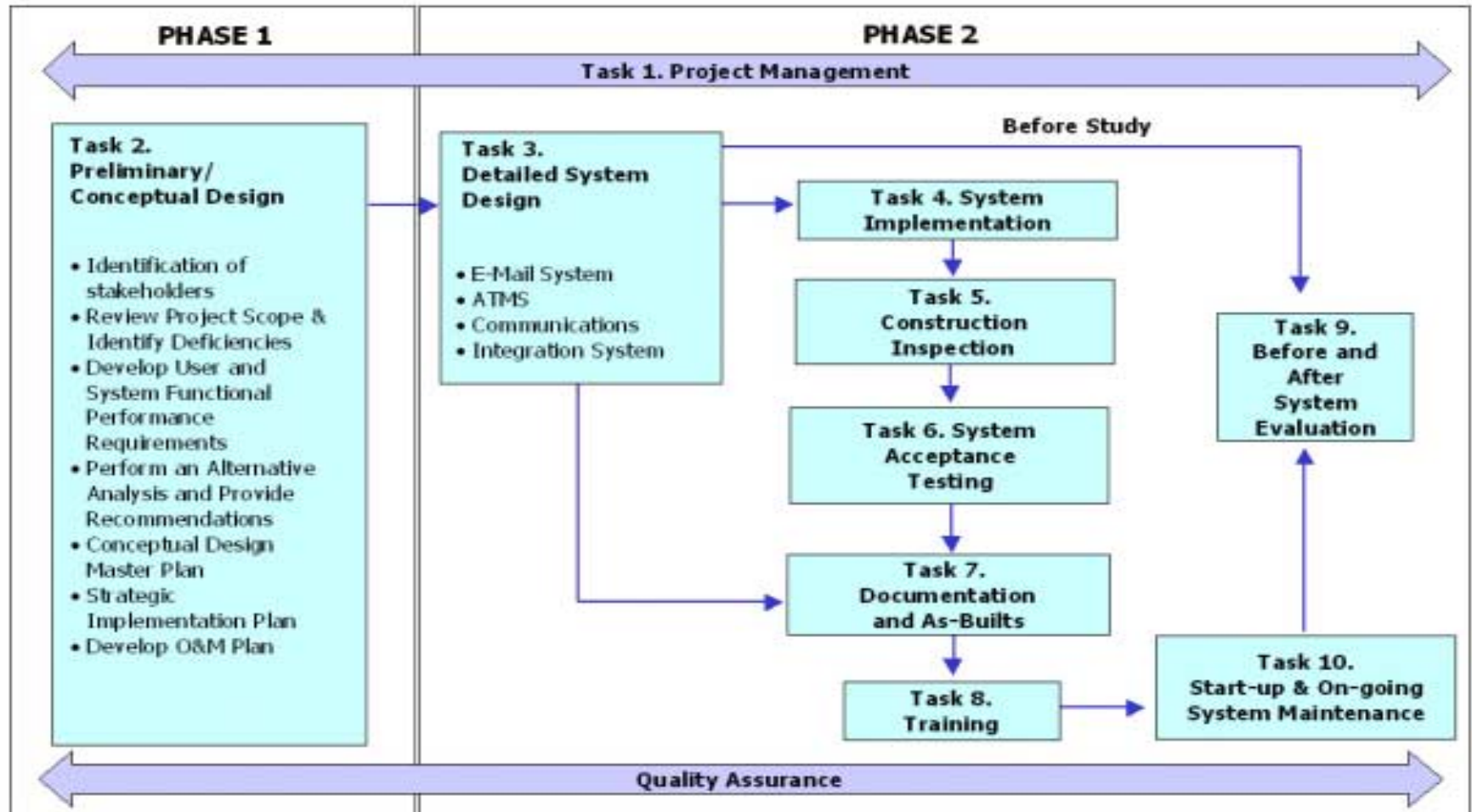
# Relationship with other Projects



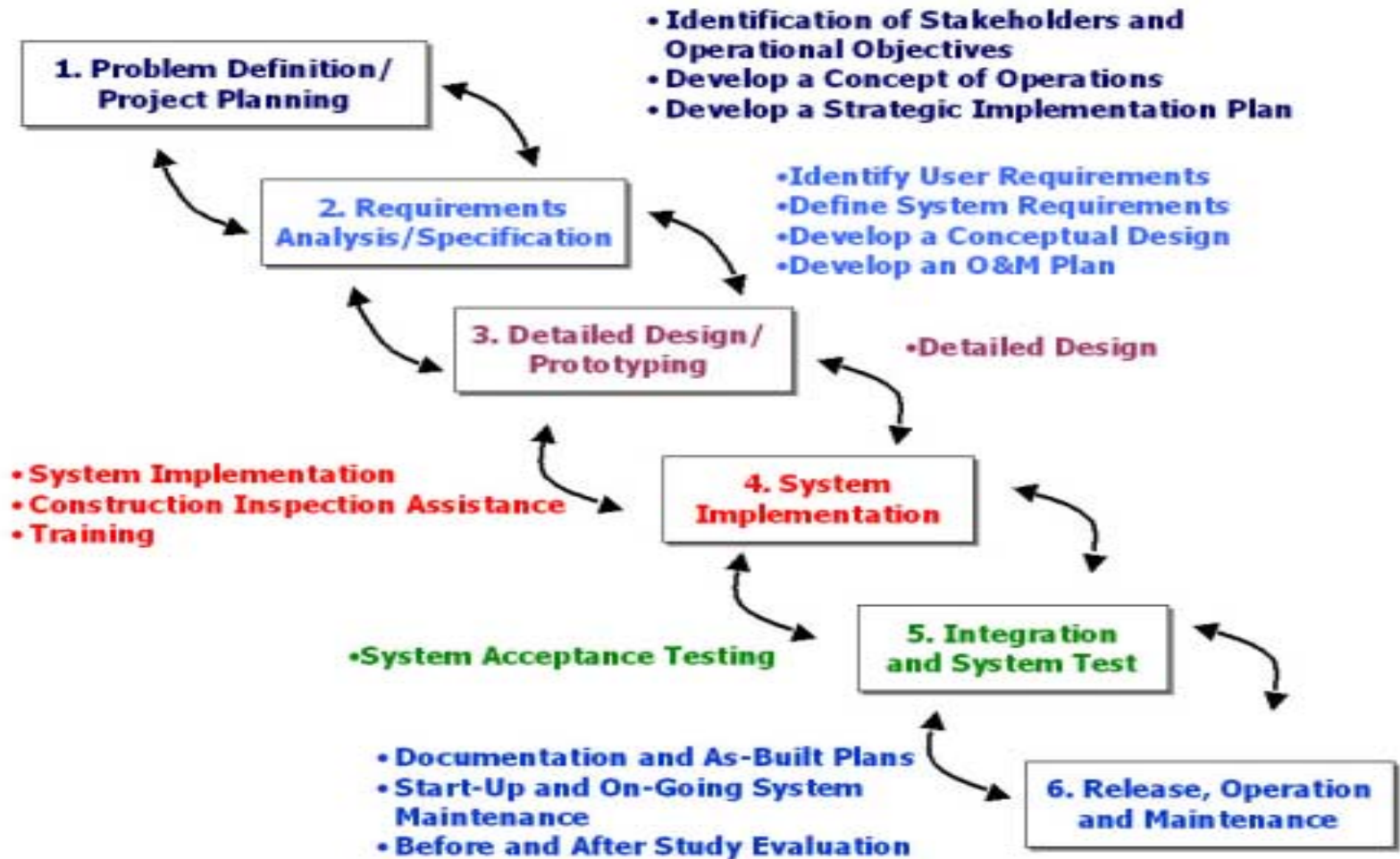
# Project Focus



# Work Flow Plan



# System Engineering Approach & Project Tasks



# Project Status



- |                                                |                            |
|------------------------------------------------|----------------------------|
| • Web Page                                     | Complete/Regularly Updated |
| • Agency Interviews                            | Complete                   |
| • Field Surveys                                | Complete                   |
| • Operational Objectives }<br>• City Reports } | Final in Progress          |
| • ATMS User Requirements                       | Final Submitted Today      |
| • ATMS Functional Requirements                 | In Progress                |
| • System Integration Requirements              | In Progress                |





# Requirements Process



- Input:
  - Stakeholders Objectives Agency Interviews
  - Agency Needs Agency Interviews
  - Existing Conditions Agency Interviews/Field Surveys
  - I-105 User Requirements
  - SGVPP User Requirements
- Output:
  - Identification of System Functions (Use Cases)
  - Identification of Requirements Per Use Case

**Use Case: A View of the Functionality of the System From the User's Perspective**

## Use Cases

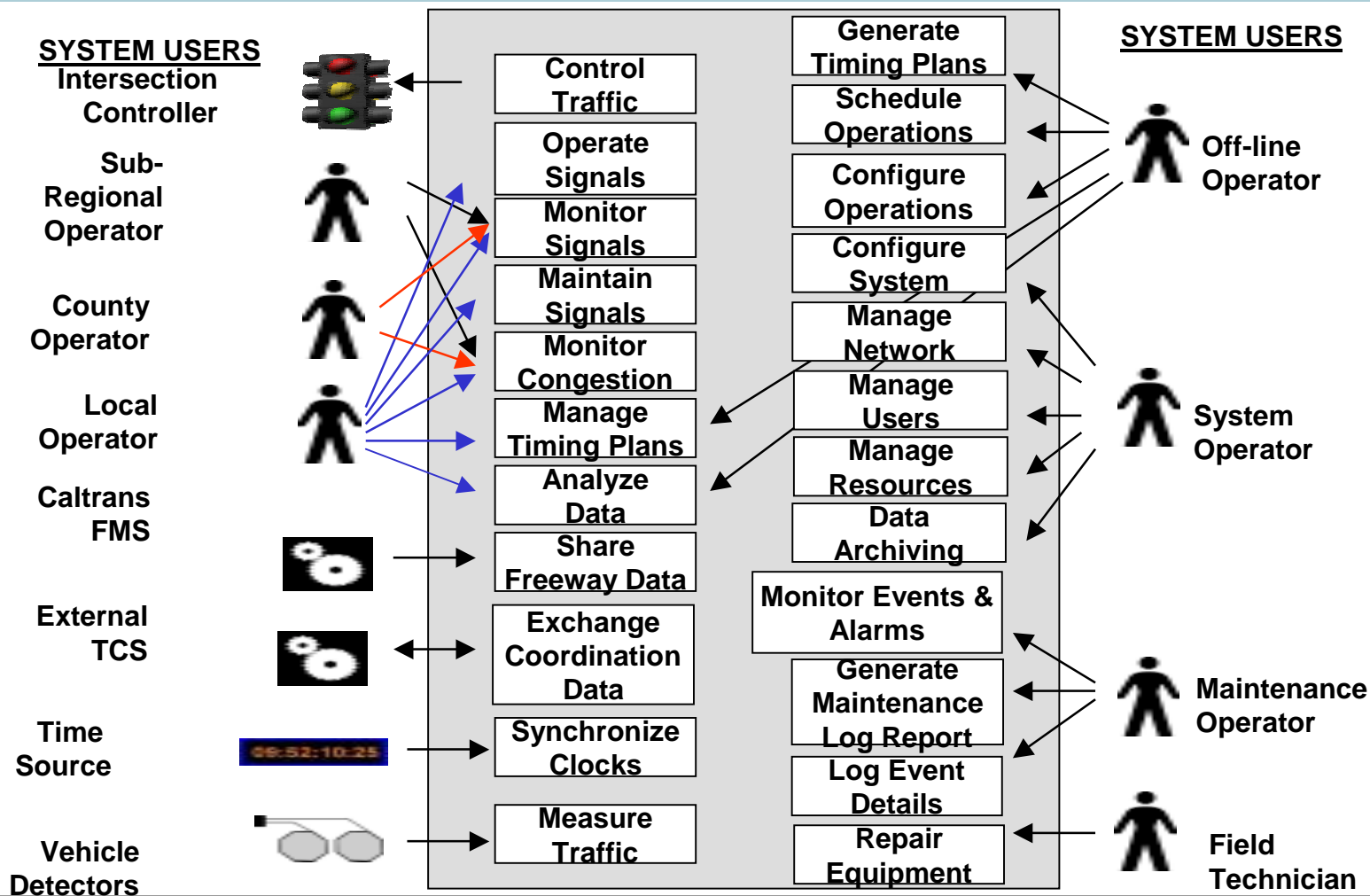


- Base: For SGV Project
- Additional: For I-5/Telegraph Road Agencies





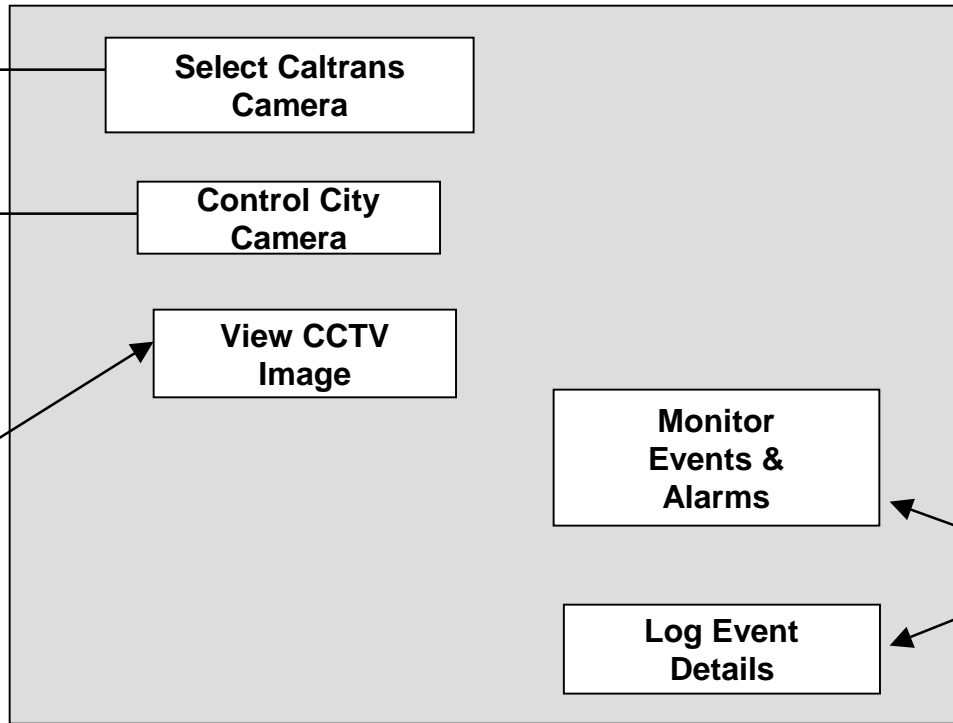
# Common ATMS Use Cases



# Additional Use Cases: City of Commerce



**SYSTEM USERS**

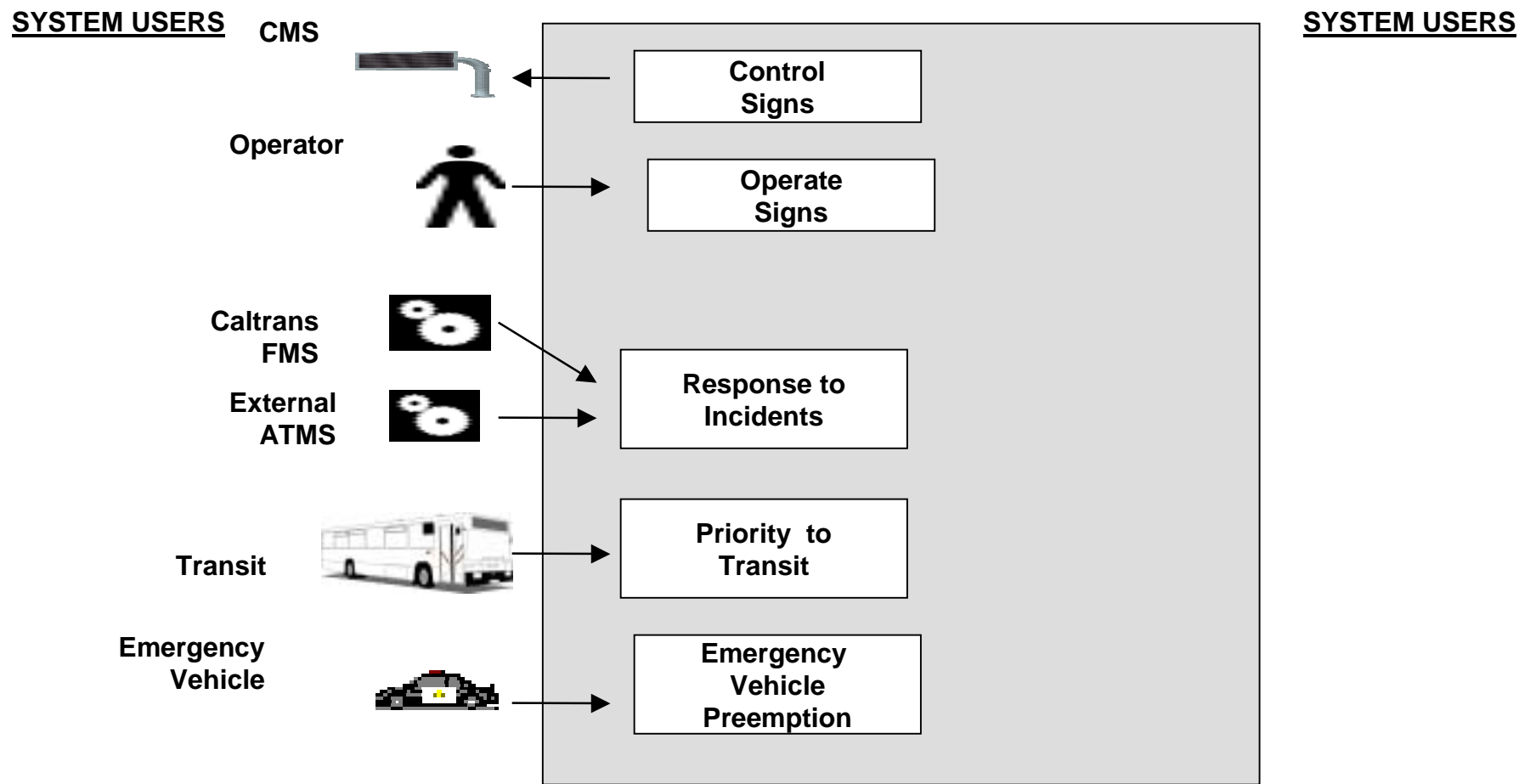


**SYSTEM USERS**





# Additional Use Cases: City of Santa Fe Springs



# Additional Use Cases: City of Downey

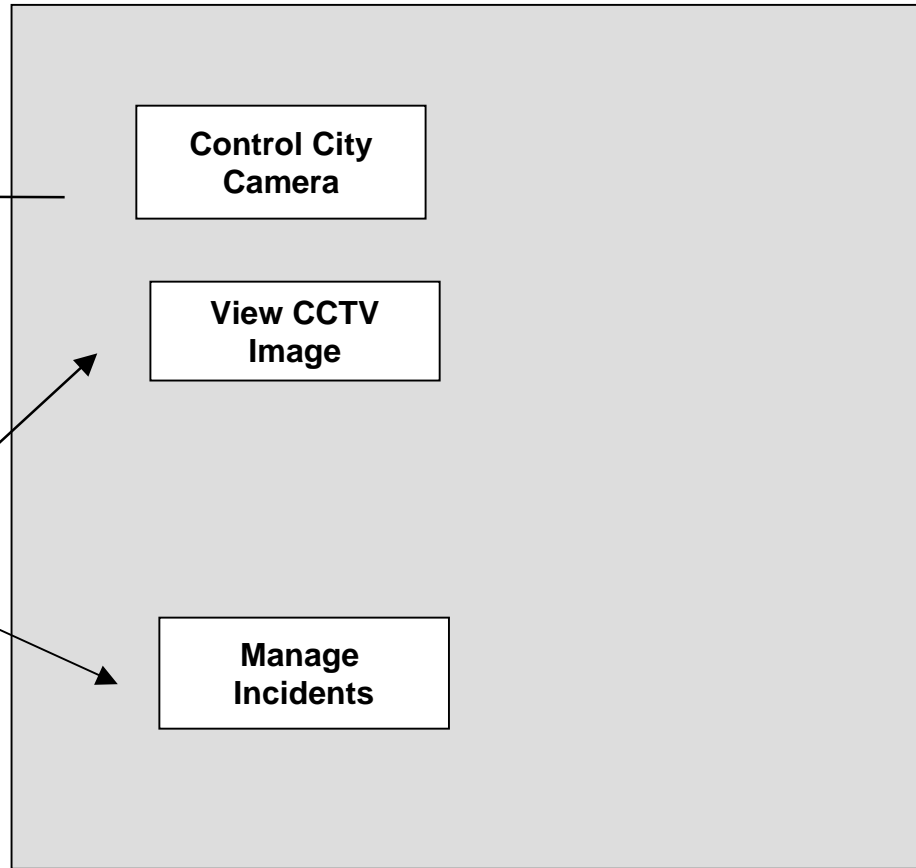


SYSTEM USERS

CCTV Camera



Local Operator



SYSTEM USERS



# User Requirements Example



- System Control
  - Operators will be able to manipulate intersection controllers if they have the proper privileges.
  - Local agencies will be able to delegate control authority to another agency.
  - Operator shall be able to log in from a remote location and be able to operate the system.

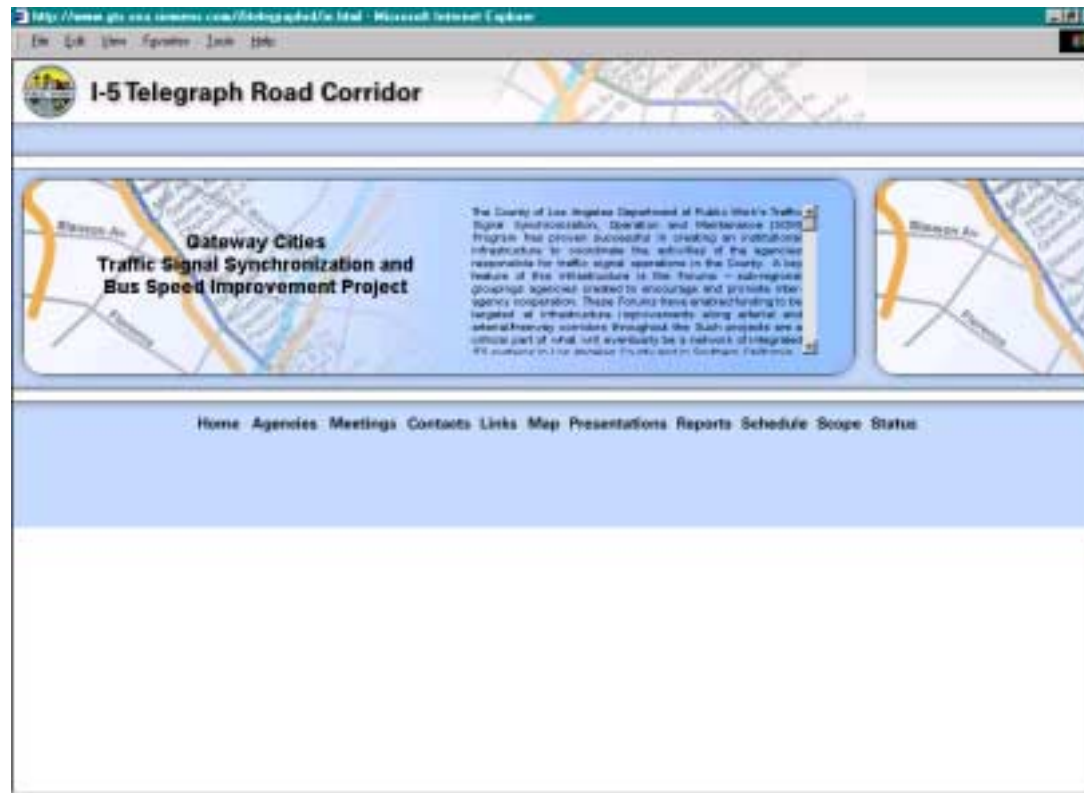


## Next Steps



- Further Definition of Requirements:
  - ATMS Functional Requirements (Local Traffic Control Operations)
  - System Integration Requirements (Multi-Agency Corridor Operations)
  - Local Traffic Control Center





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