Los Angeles County Department of Public Works

Gateway Cities Traffic Signal Synchronization and Bus Speed Improvement Project

I-5/Telegraph Road Corridor

Agency Pre-Design Meetings



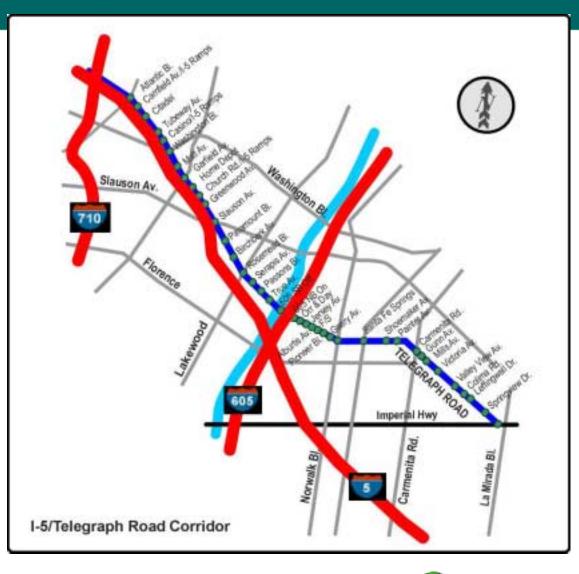




- 2. Current Agency Equipment
- 3. Current Operations
- 4. Equipment Upgrades
- 5. Future Operations



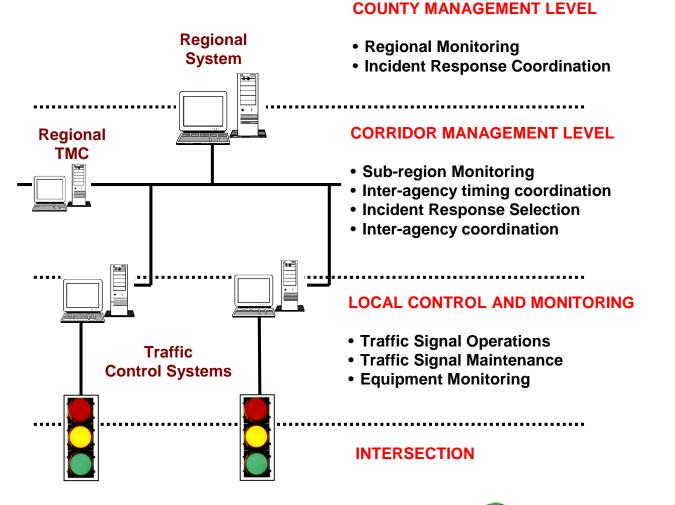








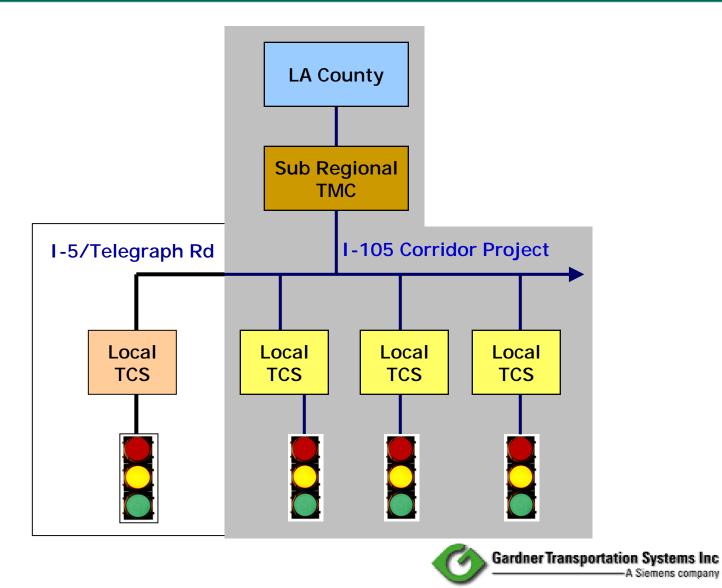
County Architecture Functions





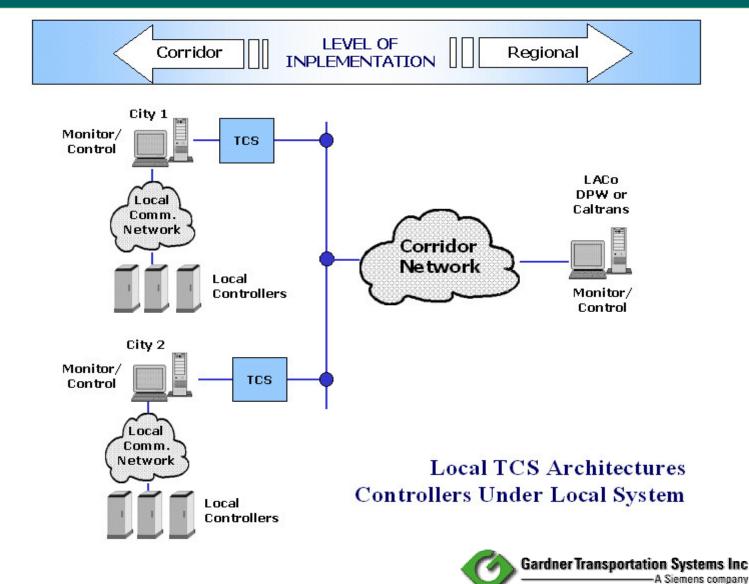


Concurrent Projects



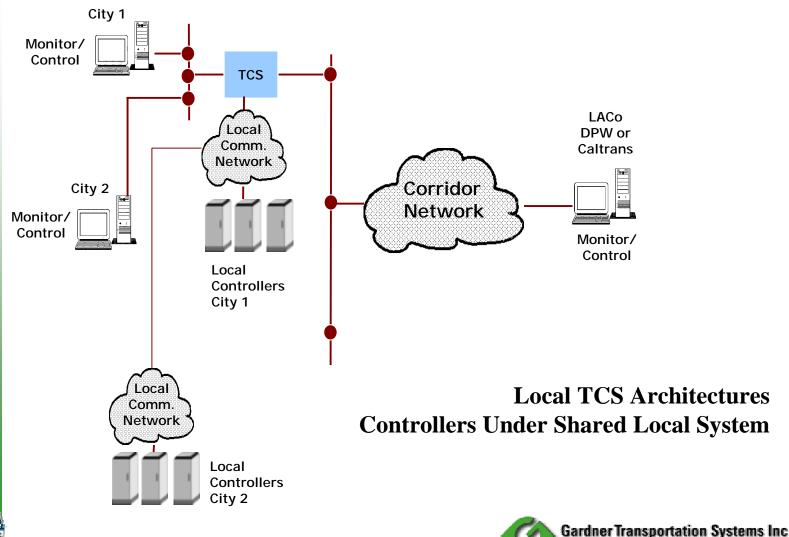


Concept of Local TCS Architecture (1)





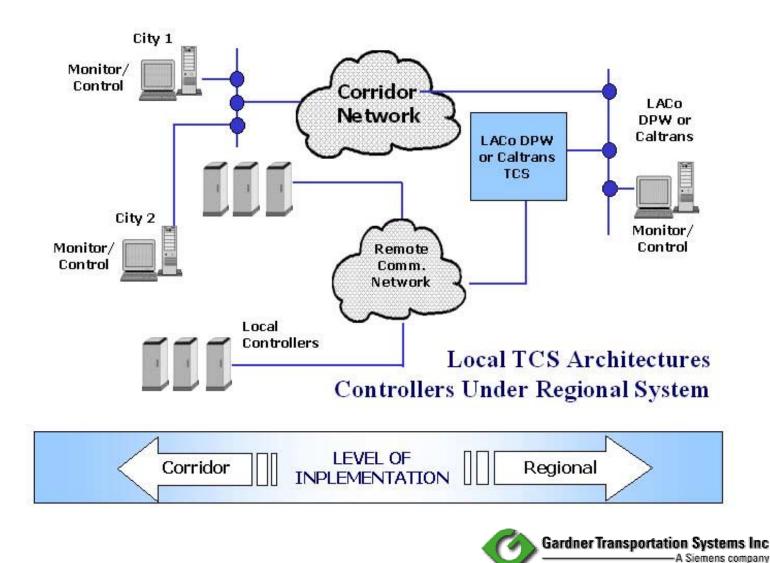
Concept of Local TCS Architecture (2)



A Siemens company



Concept of Local TCS Architecture (3)





Project Issues

- Advanced Traffic Management System
 - Relationship between Telegraph Road and other signals
 - Accommodating local agency requirements
 - Accommodating shared operational responsibilities
- Communications System
 - Field Interconnect
 - The Sub-Regional Network
 - Video
 - National Standards
- System Integration
 - Corridor
 - Regional







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Equipment Upgrades

Upgrades will be funded under the project as long as they are needed to meet the project requirements. E.g:

- •Controller Upgrades for:
 - communications
 - additional detection
- •System Upgrades for:
 - regional interface
 - new functionality
- •Communication upgrades for:
 - •Support of non-proprietary protocols e.g. NTCIP





Intersection Upgrade Options (examples)

- Controller
 - •NEMA
 - •170
- Detection
 - •Loop
 - •Video





Signal Controller Upgrade Options (examples)

170 (existing)

- 170 (HC11 Board)
- 170 with 470i Board
- 170 ATC (Engine Board upgrade)
- 2070
- (Future) Advanced Transportation Controller (not defined)

NEMA

- Same supplier; new equipment
- New Supplier
- 2070
- (Future) Advanced Transportation Controller (not defined)
 Gardner Transportation Systems



Interconnect Upgrade Options (examples)

- Hardwire
 - •Copper to replace leased lines
 - •Copper replacement
- •Fiber Optic
- •Wireless
 - •Spread Spectrum
 - •Microwave
 - Leased services
 - Metricom
 - •AT&T CDPD







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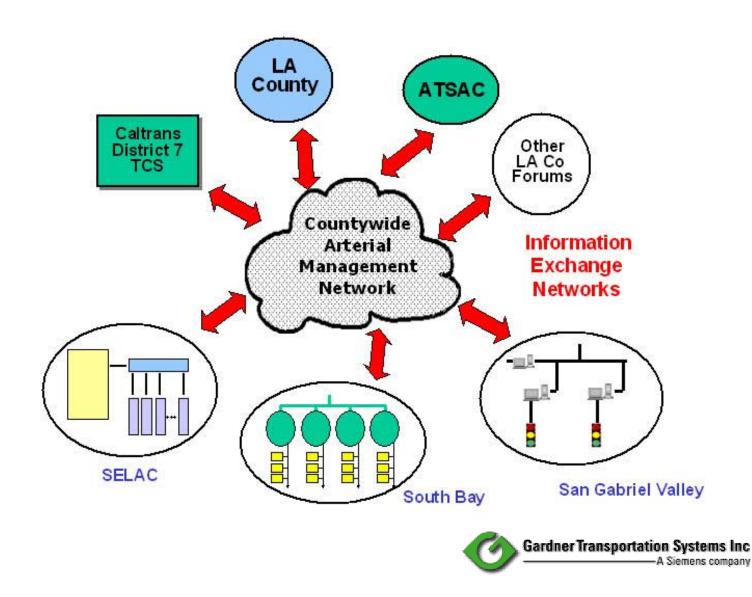
Future Operations

System Operations Signal Timing Inter-agency Coordination Special Event Management Incident Response System Management Equipment Monitoring Back-ups Upgrades





Concept of Integration - Arterial





Concept of Integration - Regional

