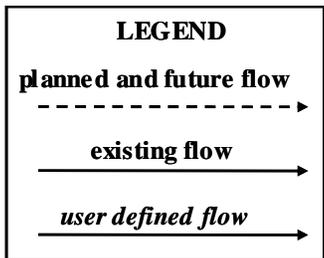
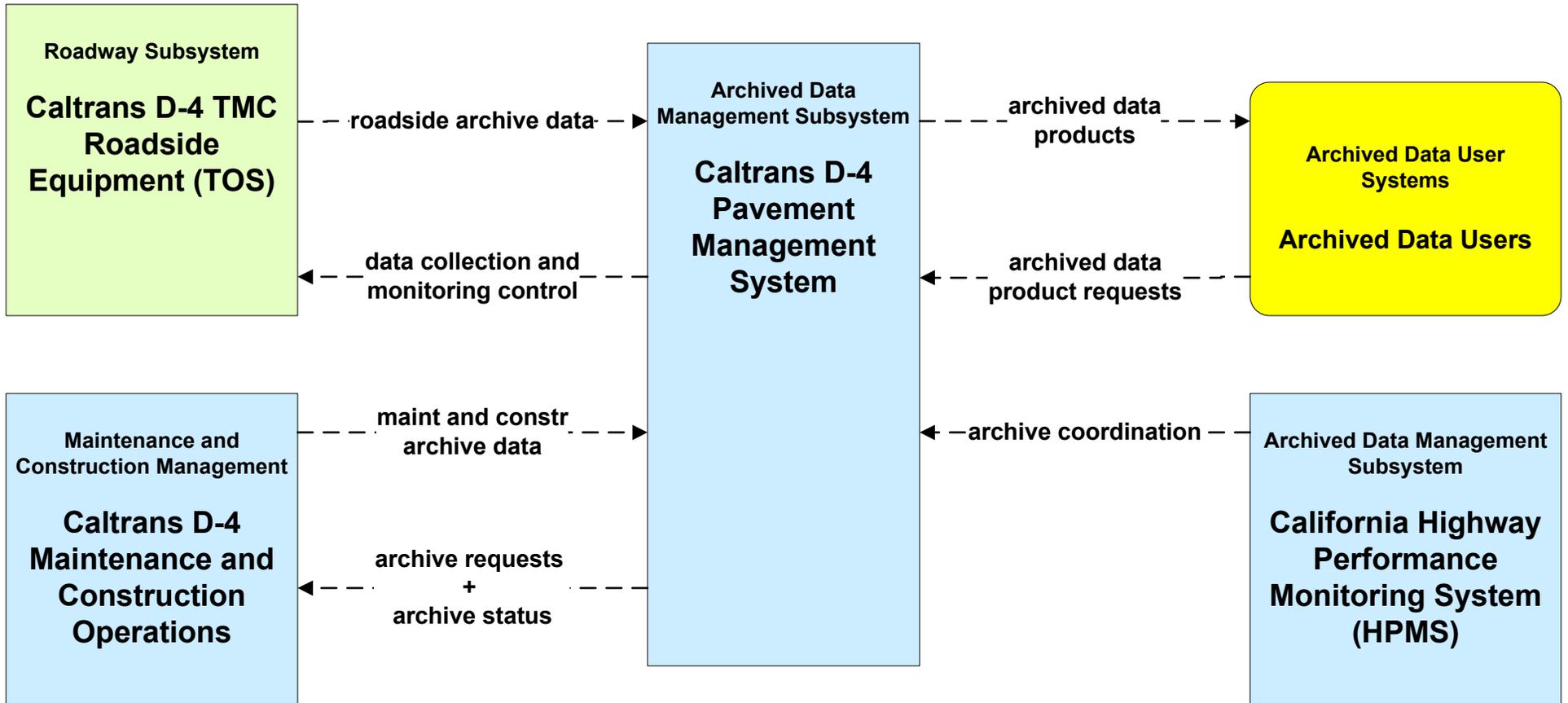
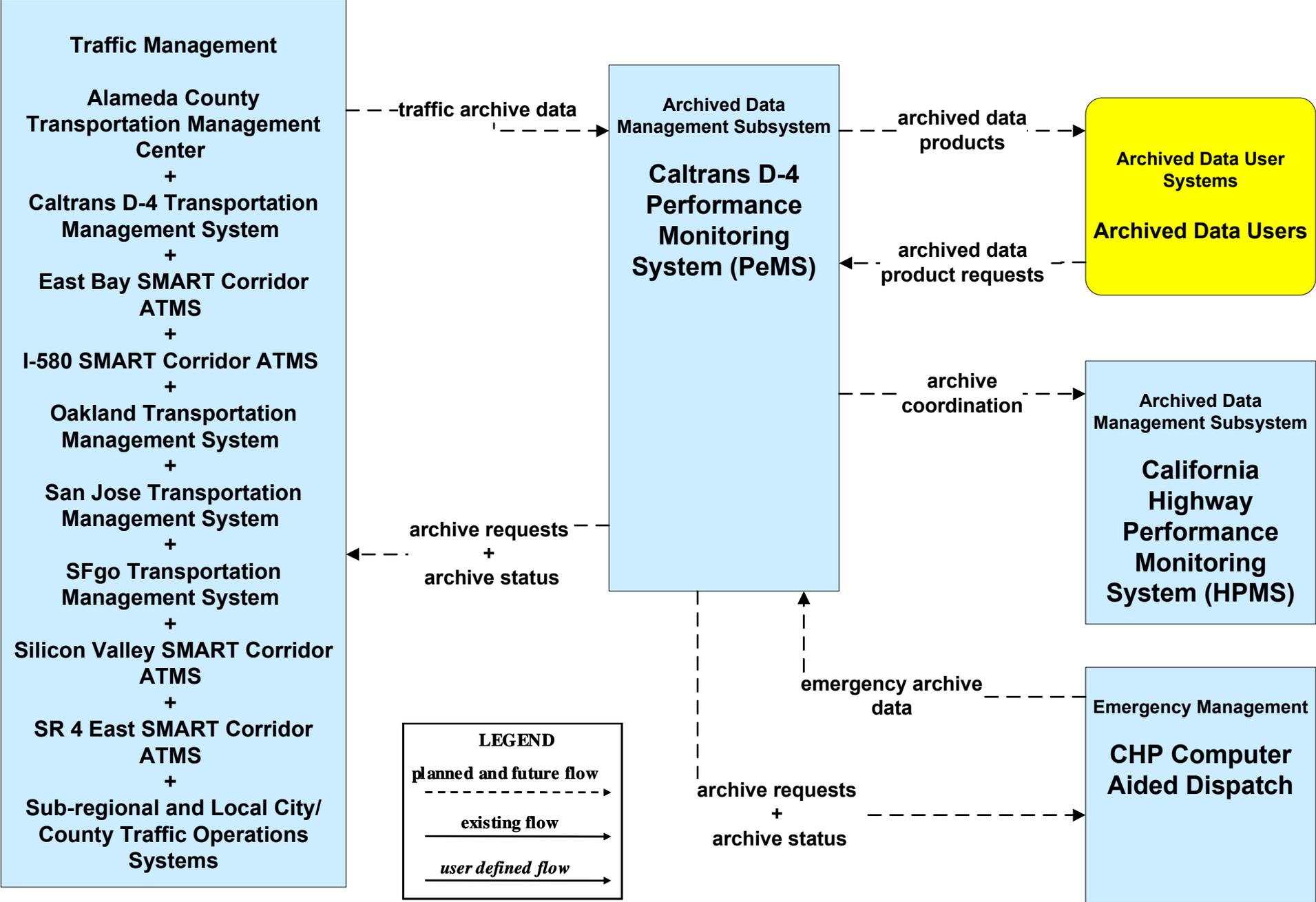


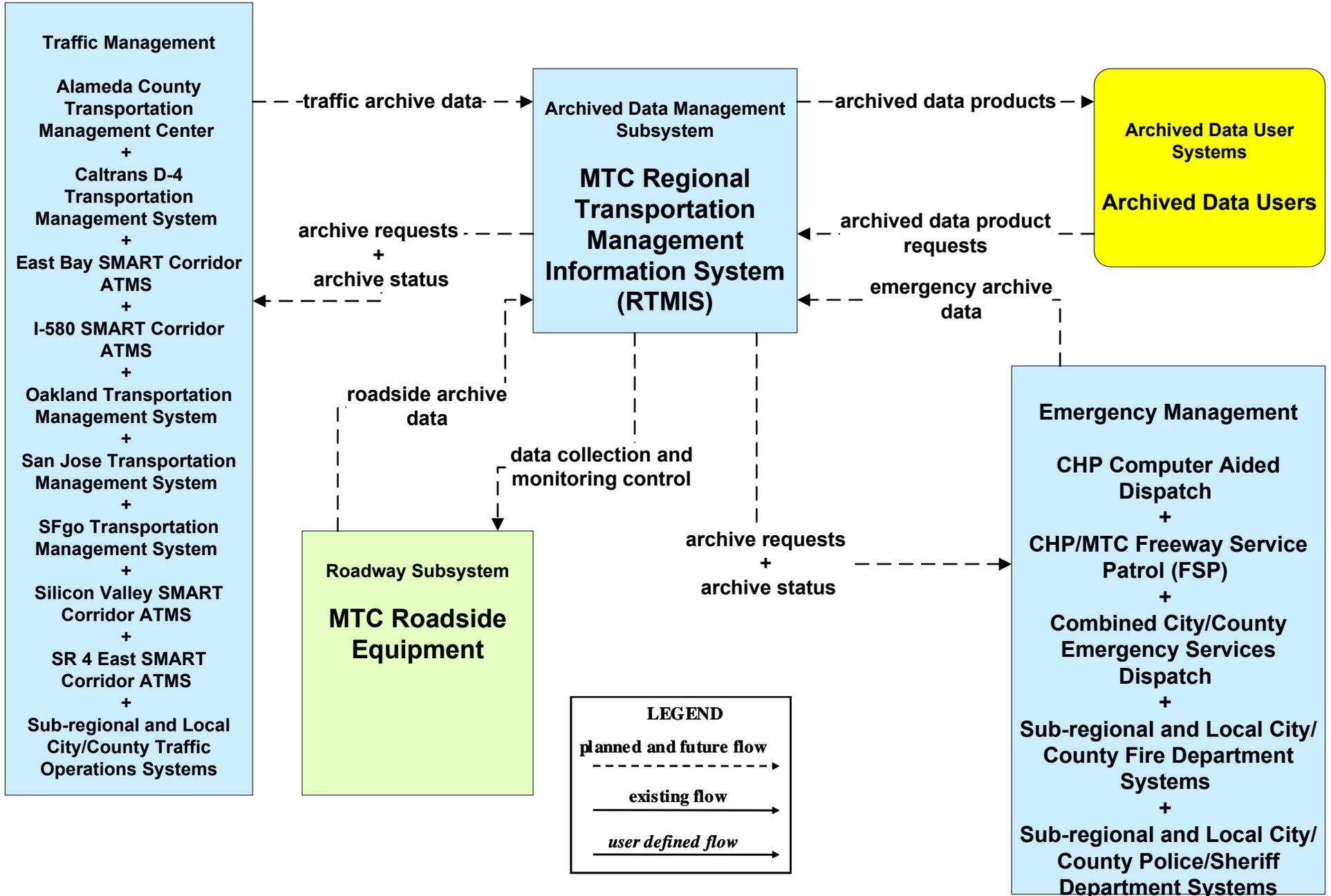
**AD1 - ITS Data Mart
Caltrans D-4 Pavement Management System**



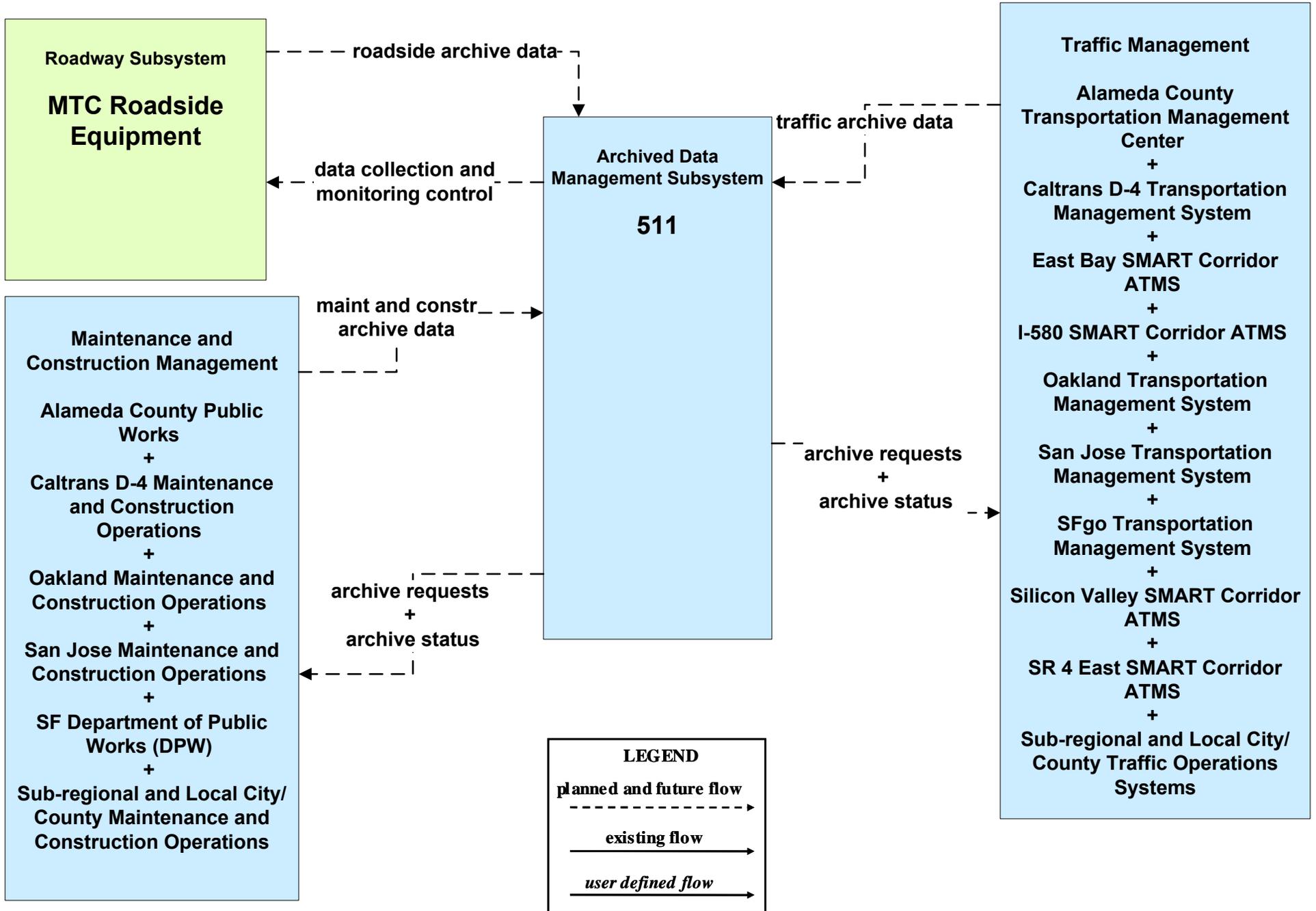
**AD1 - ITS Data Mart
Caltrans Performance Monitoring System (PeMS)**



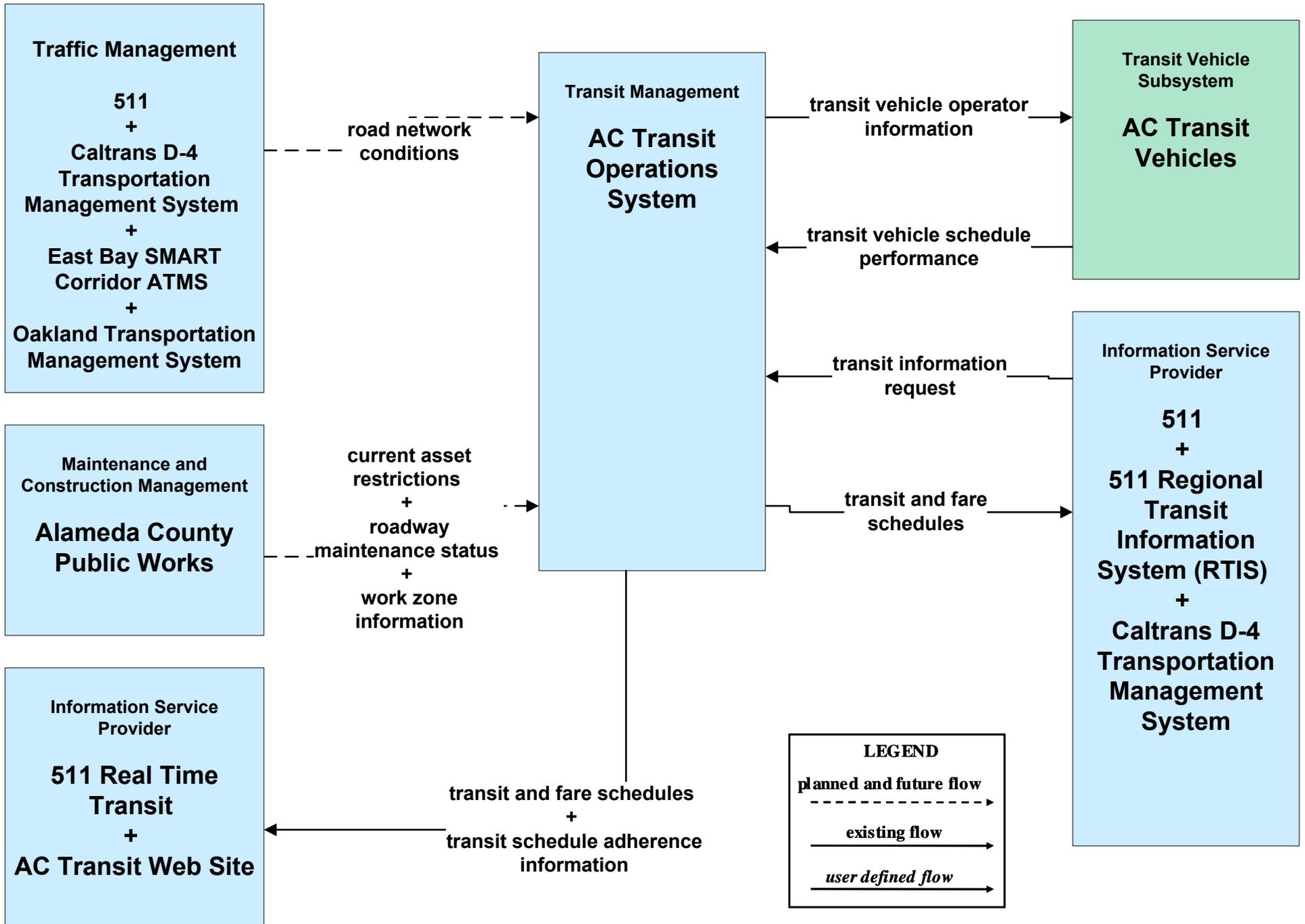
**AD1 - ITS Data Mart
MTC RTMIS**



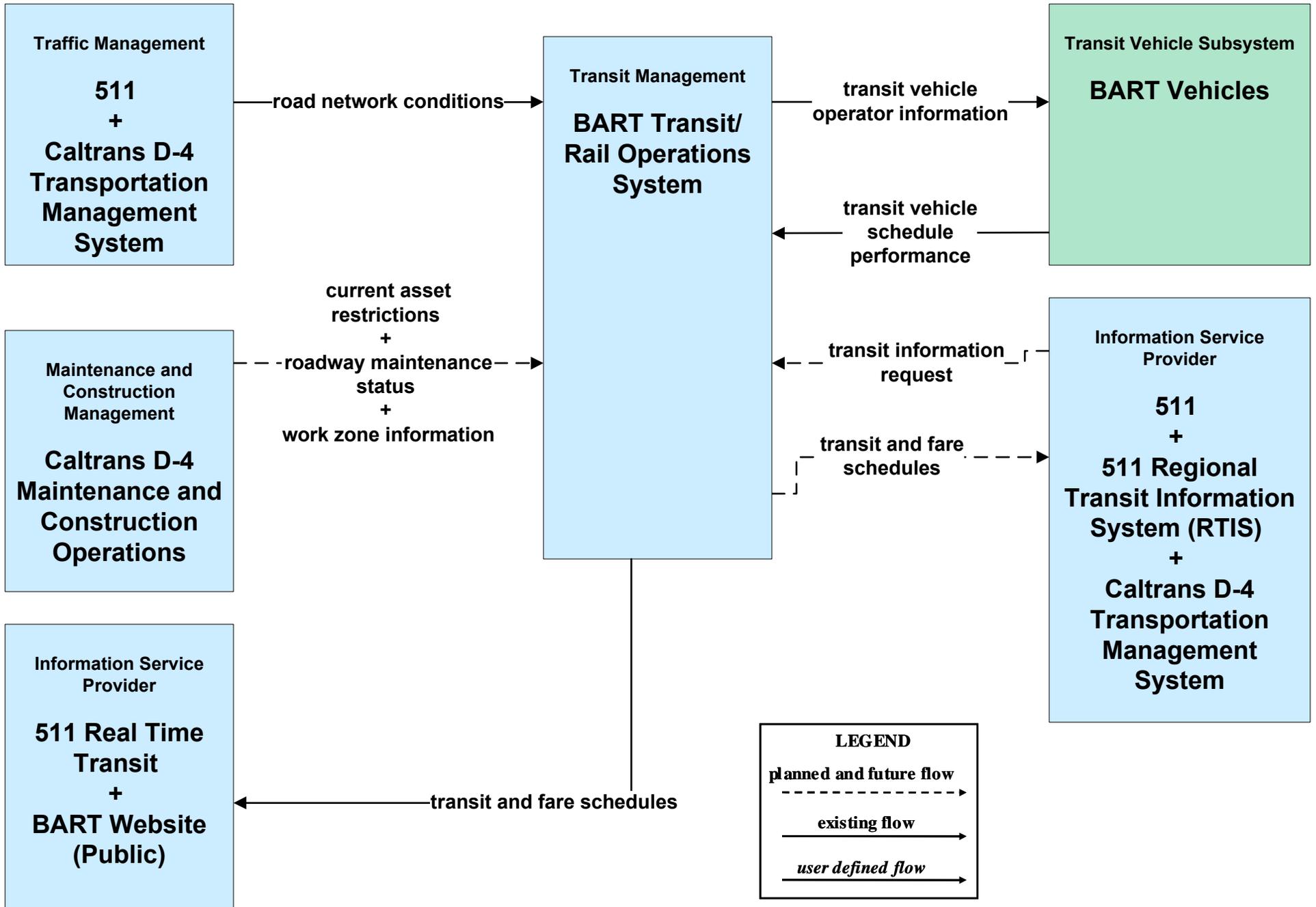
AD1 - ITS Data Mart 511 (1 of 2)



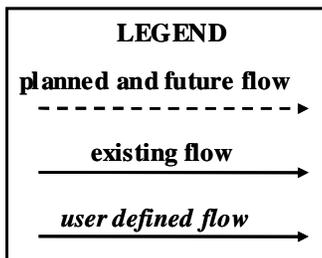
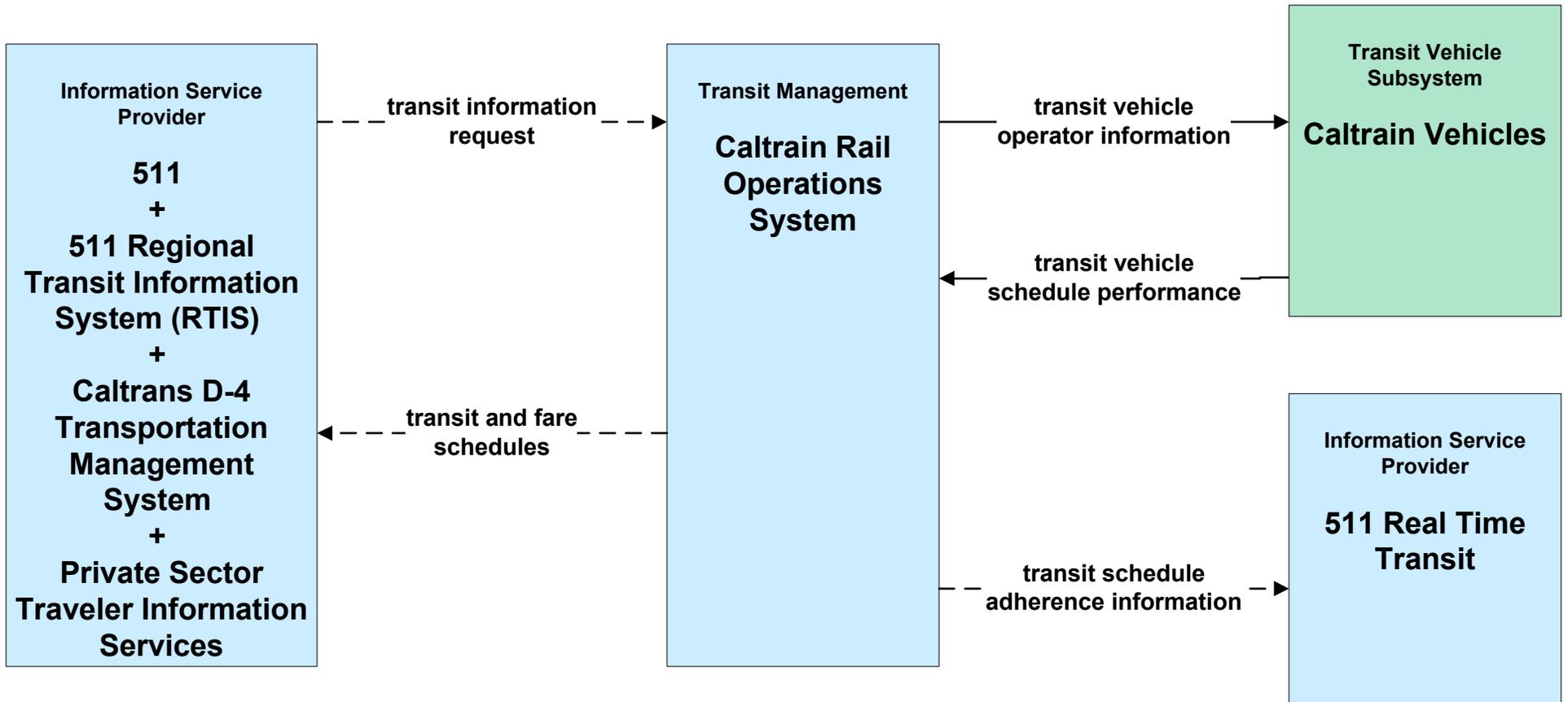
APTS02 - Transit Fixed-Route Operations AC Transit Operations



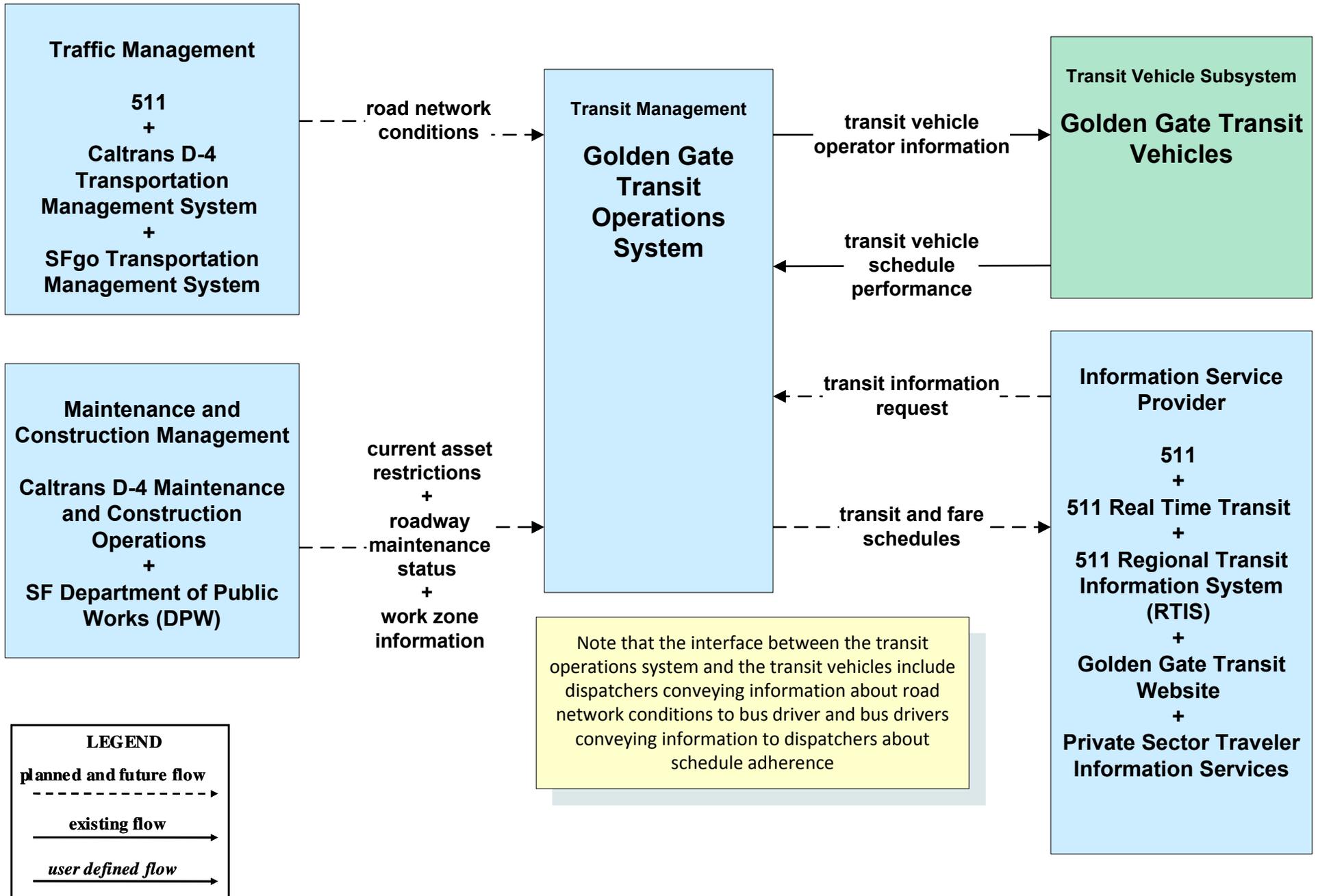
APTS02 - Transit Fixed-Route Operations BART Transit Operations



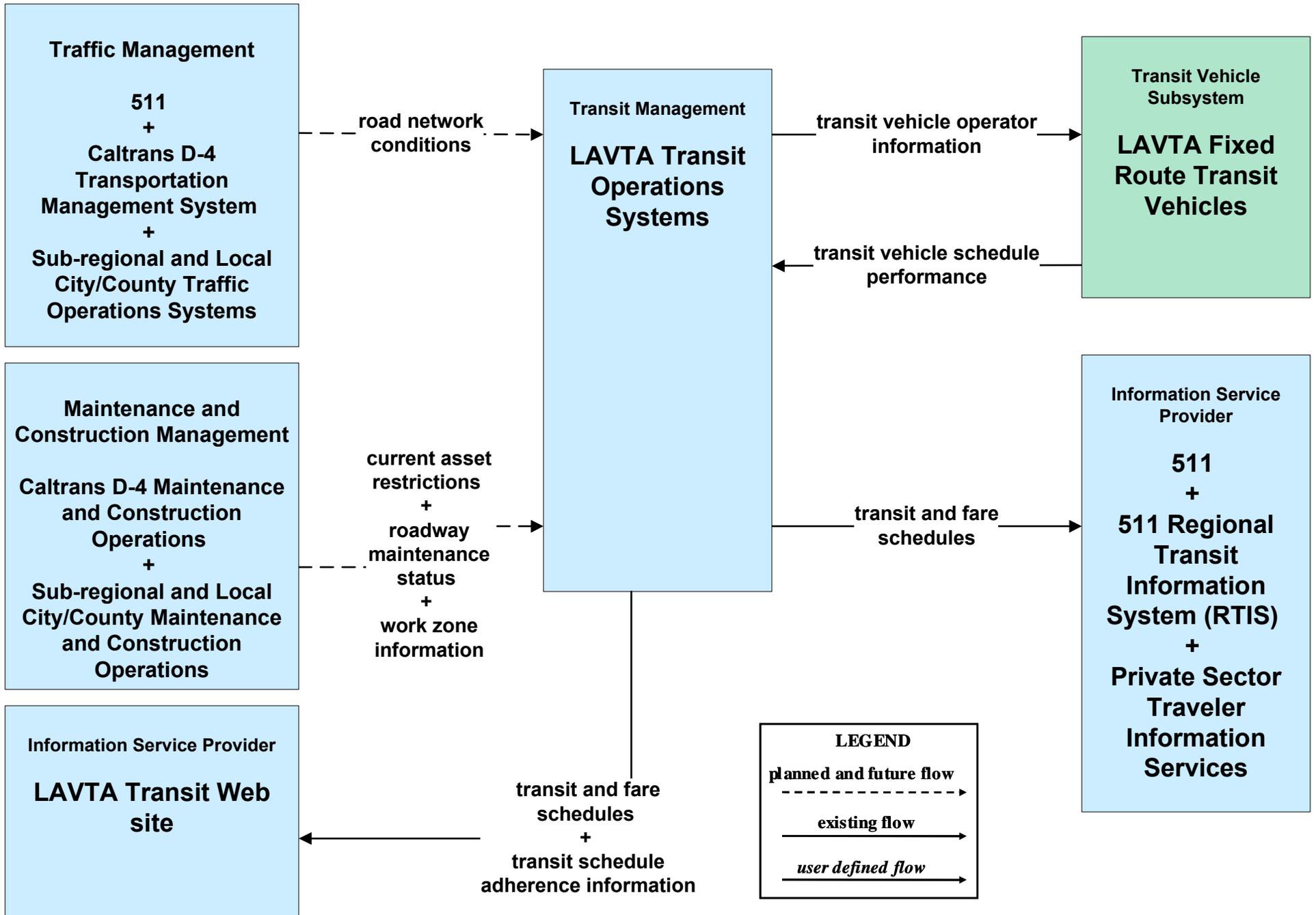
APTS02 - Transit Fixed-Route Operations Caltrain Rail Operations



APTS02 - Transit Fixed-Route Operations Golden Gate Transit



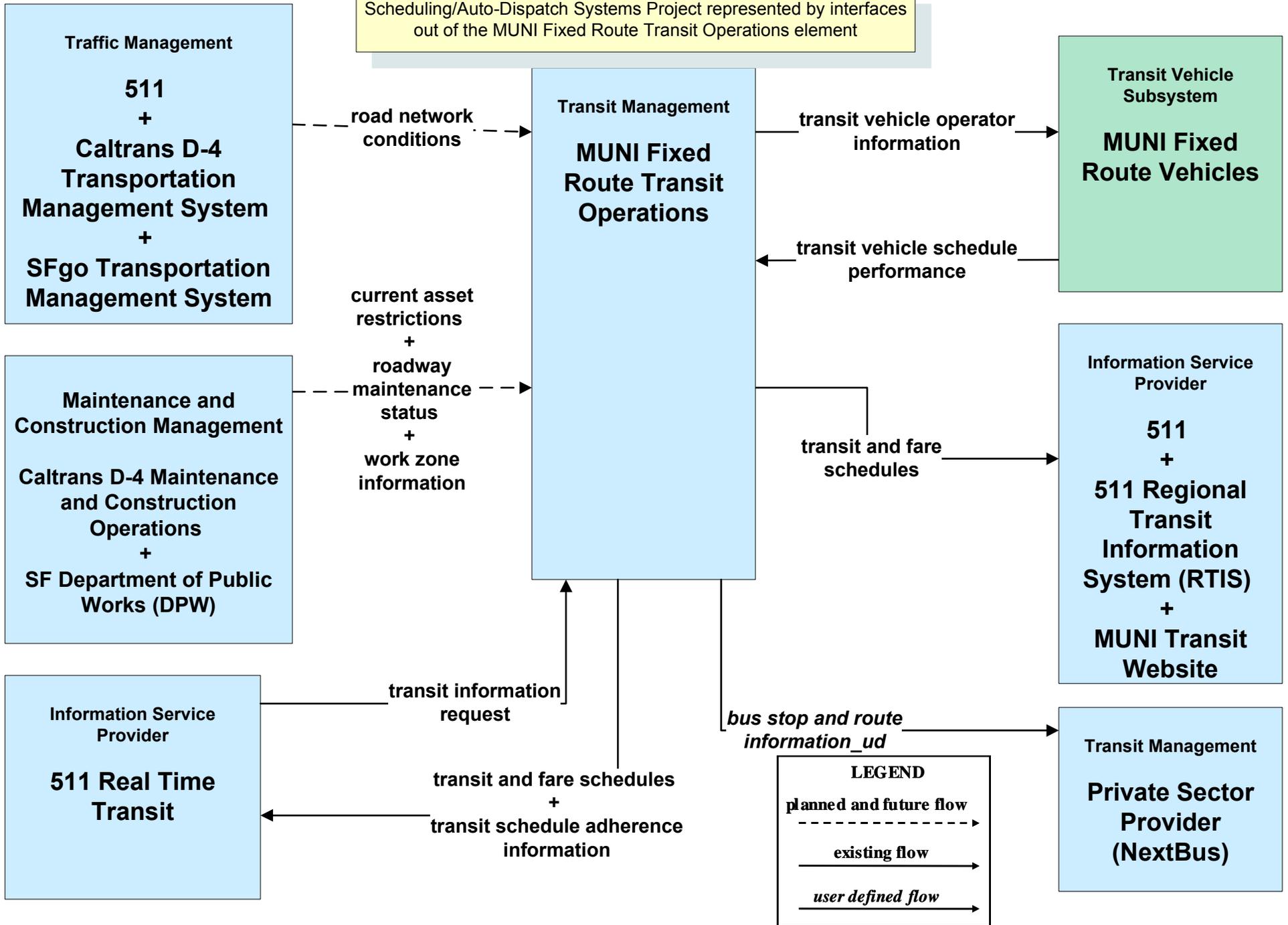
APTS02 - Transit Fixed-Route Operations LAVTA Transit



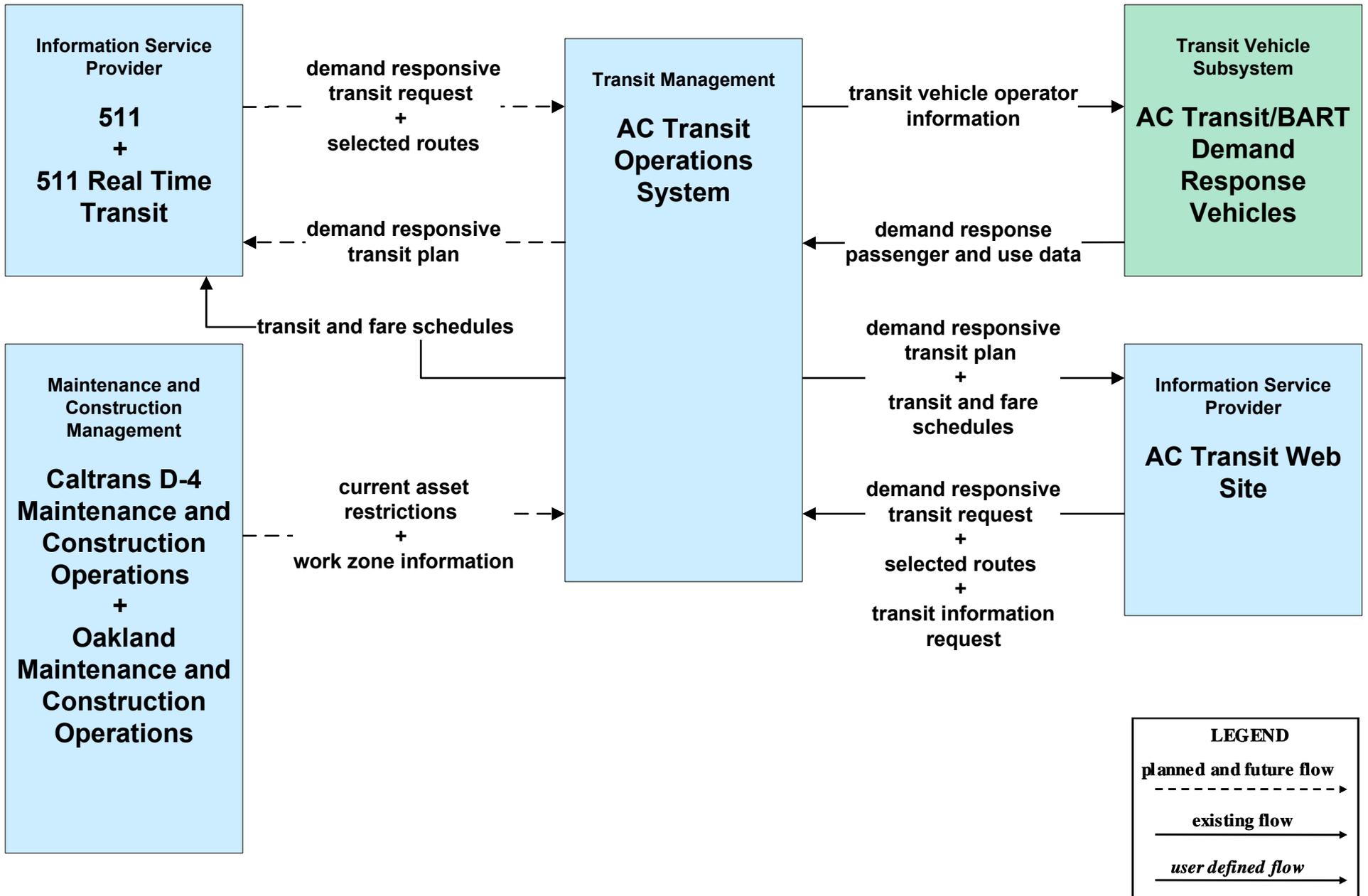
APTS02 - Transit Fixed-Route Operations

MUNI Transit Operations

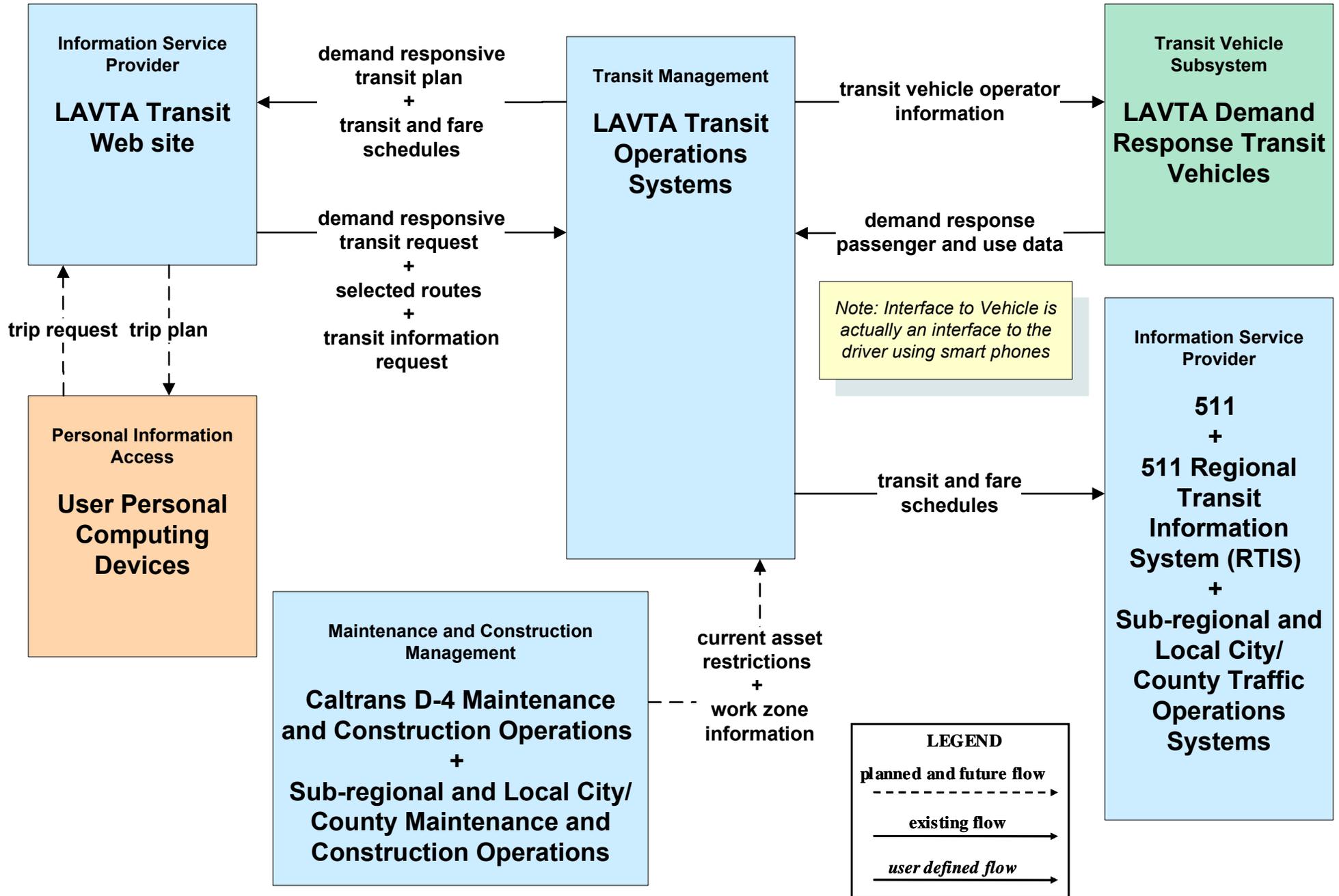
Scheduling/Auto-Dispatch Systems Project represented by interfaces out of the MUNI Fixed Route Transit Operations element



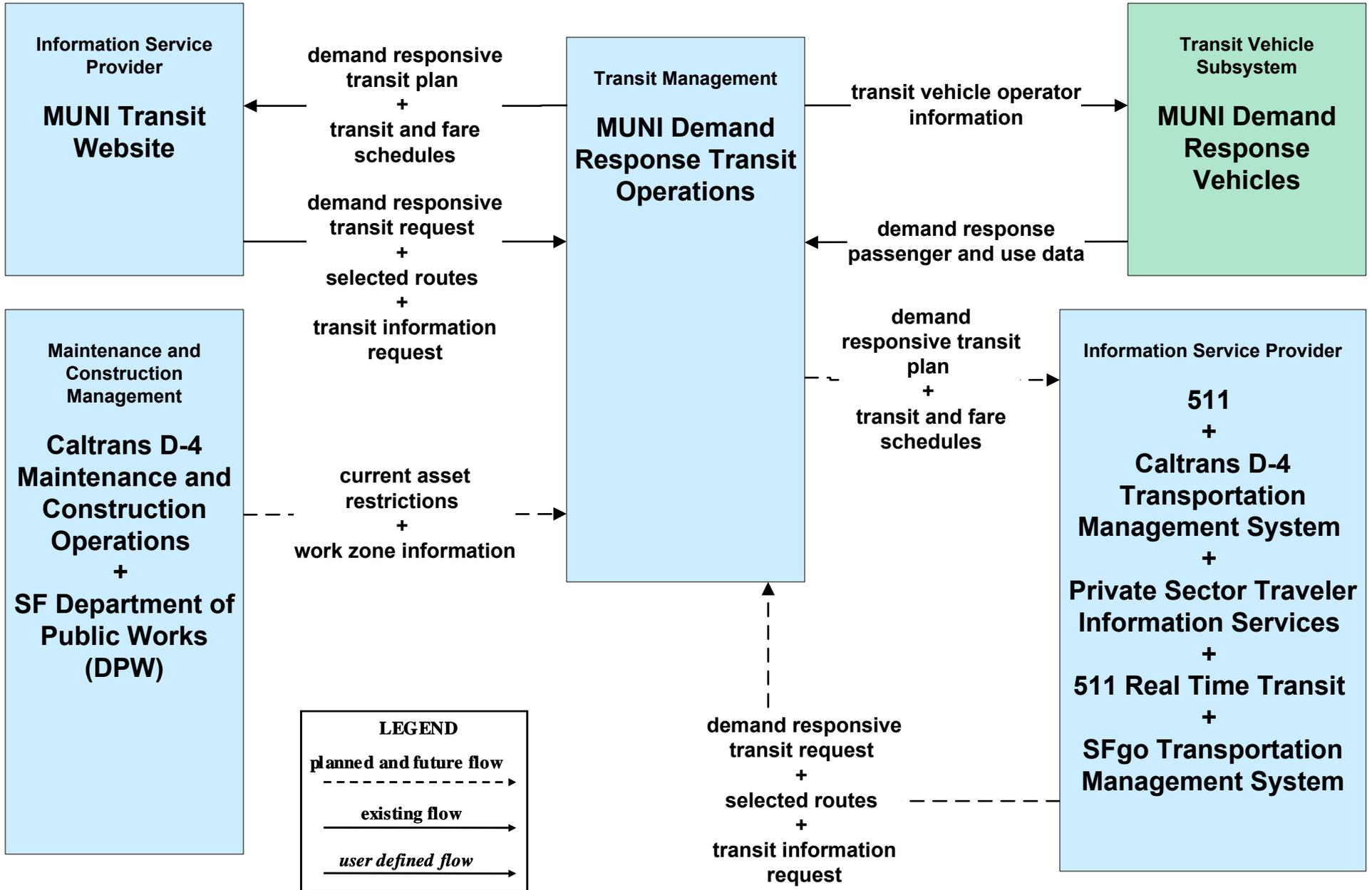
APTS03 - Demand Response Transit Operations AC Transit



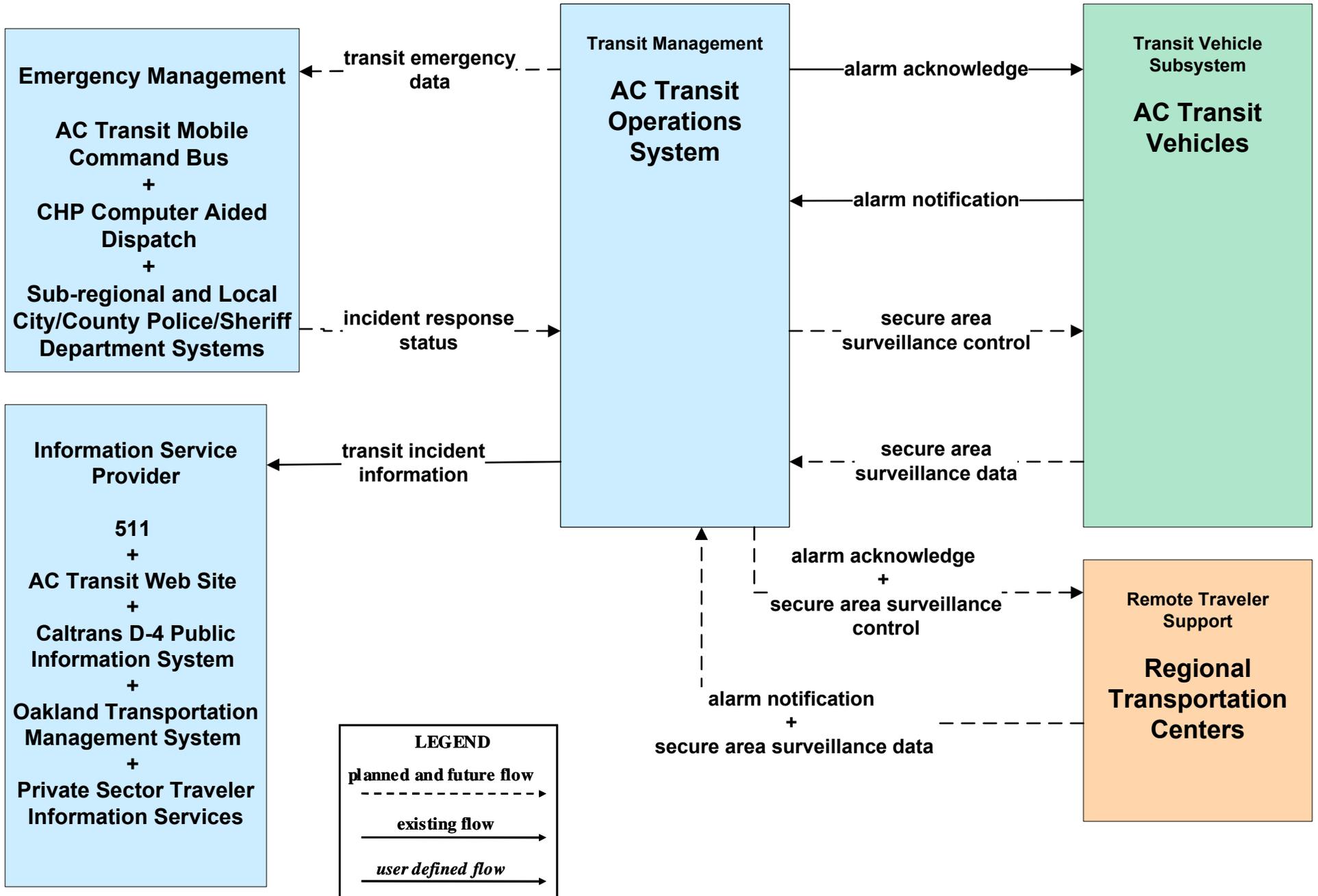
APTS03 - Demand Response Transit Operations LAVTA



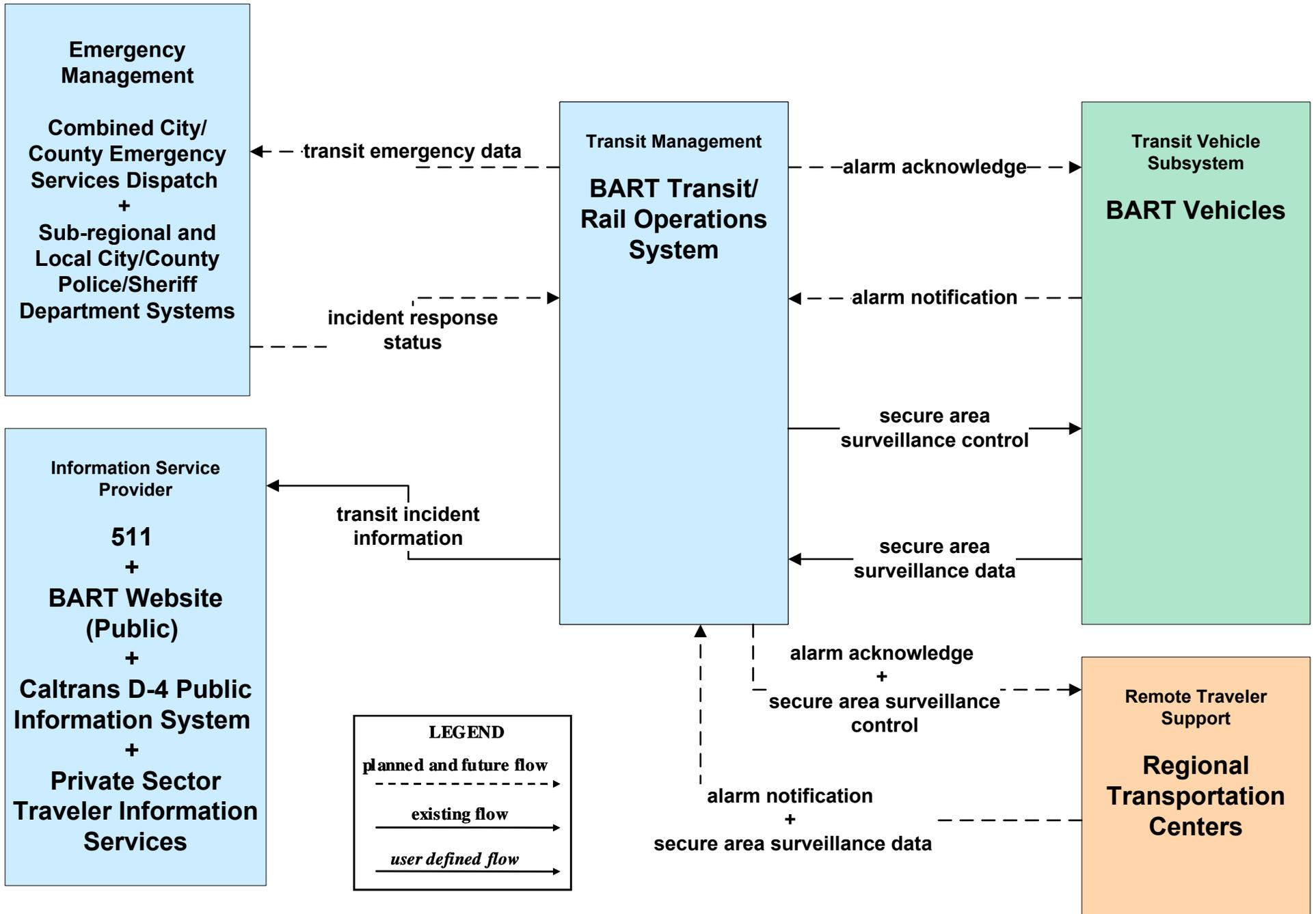
**APTS03 - Demand Response
MUNI Transit Operations**



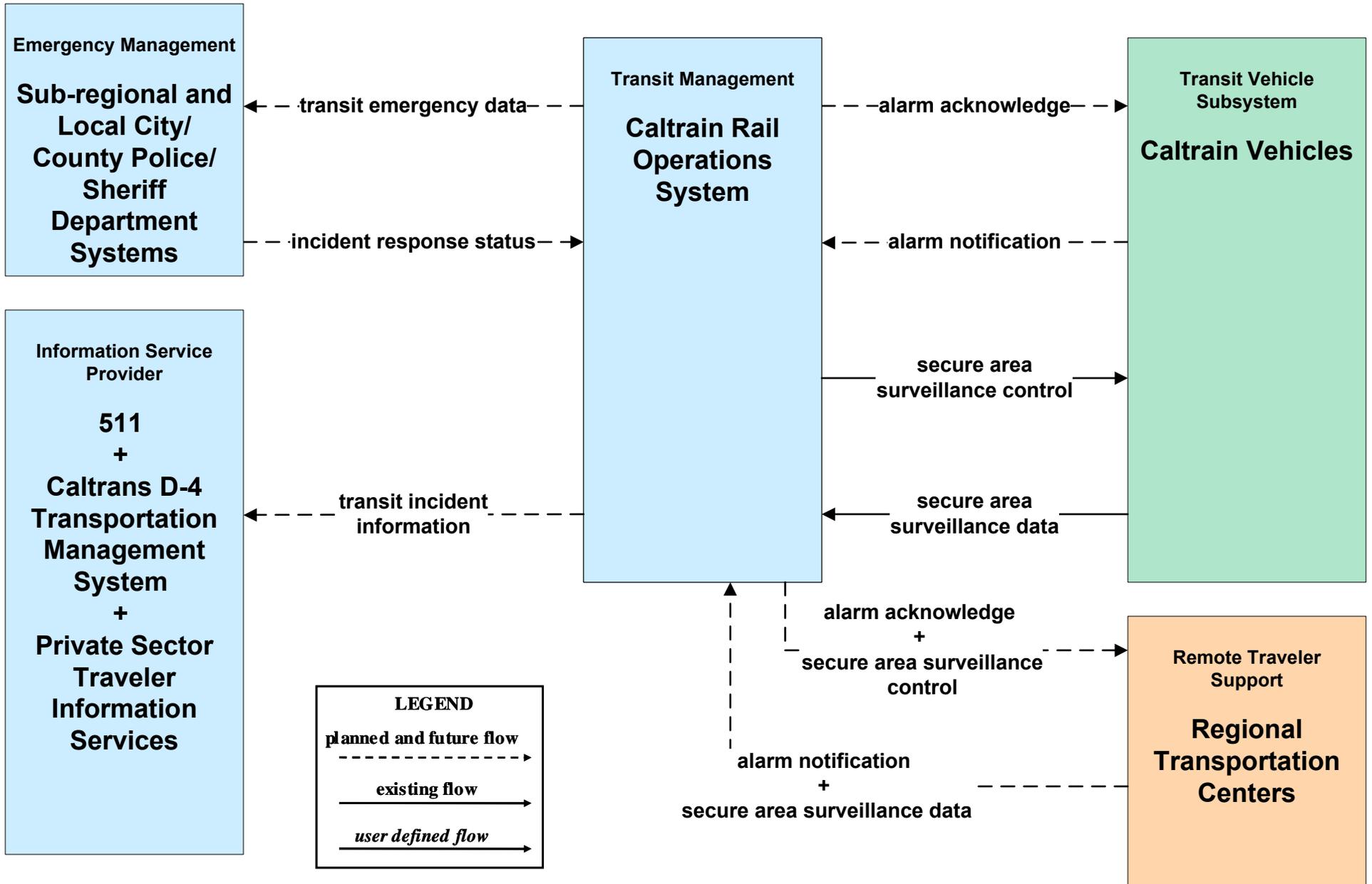
APTS05 - Transit Security AC Transit Operations



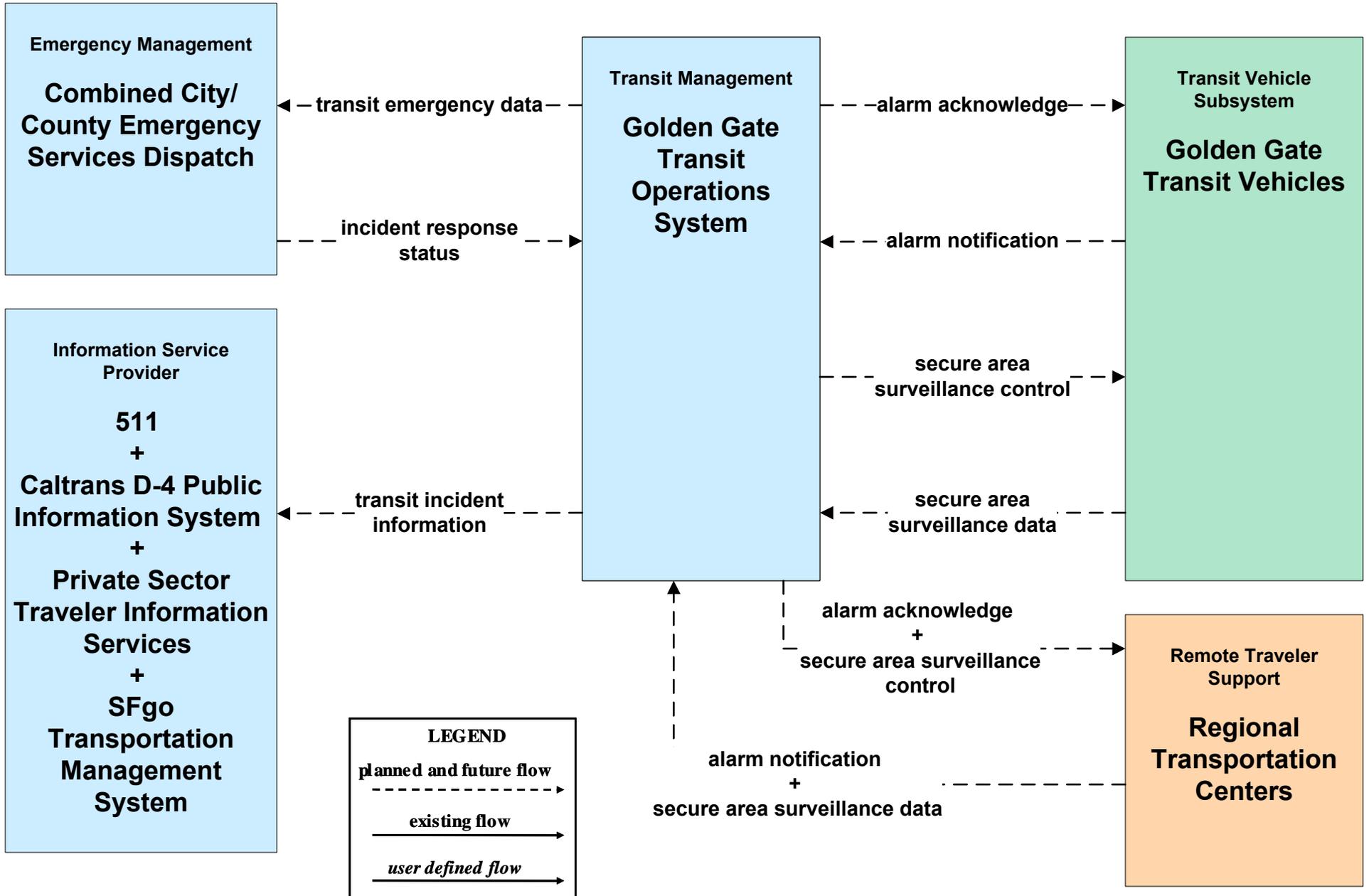
APTS05 - Transit Security BART Transit Operations



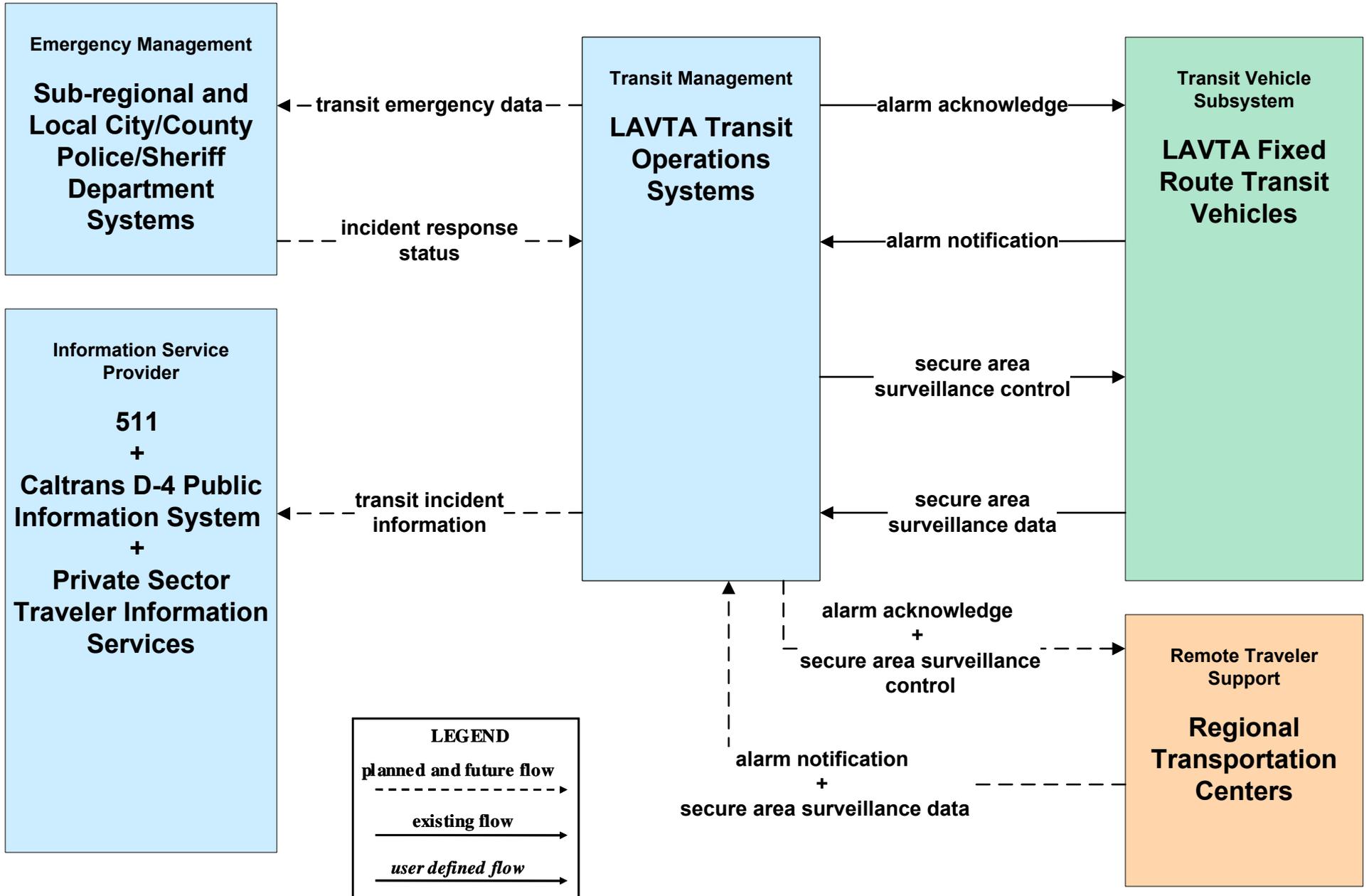
APTS05 - Transit Security Caltrain Rail Operations



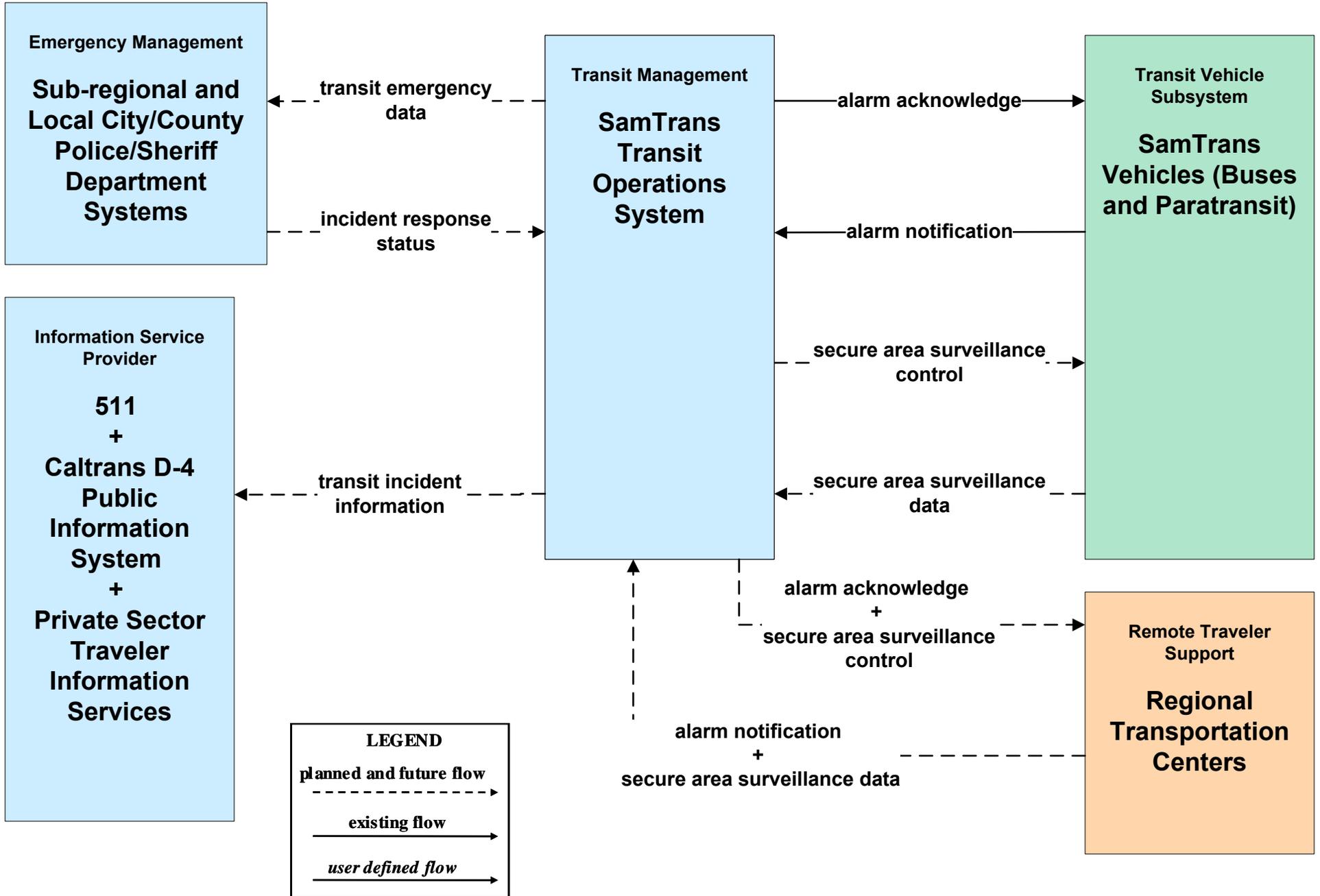
**APTS05 - Transit Security
Golden Gate Transit Operations**



APTS05 - Transit Security LAVTA

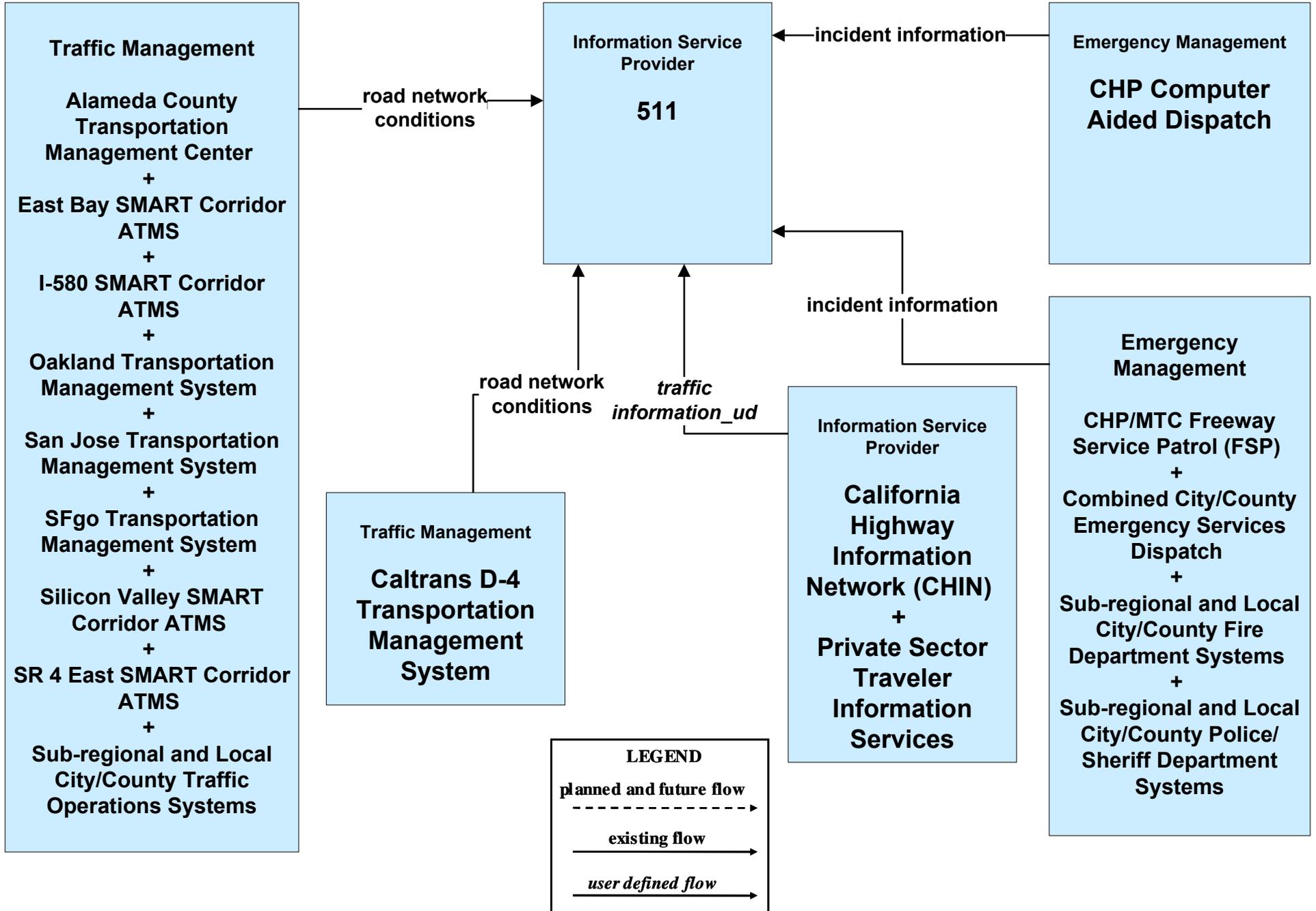


APTS05 - Transit Security SamTrans Transit Operations



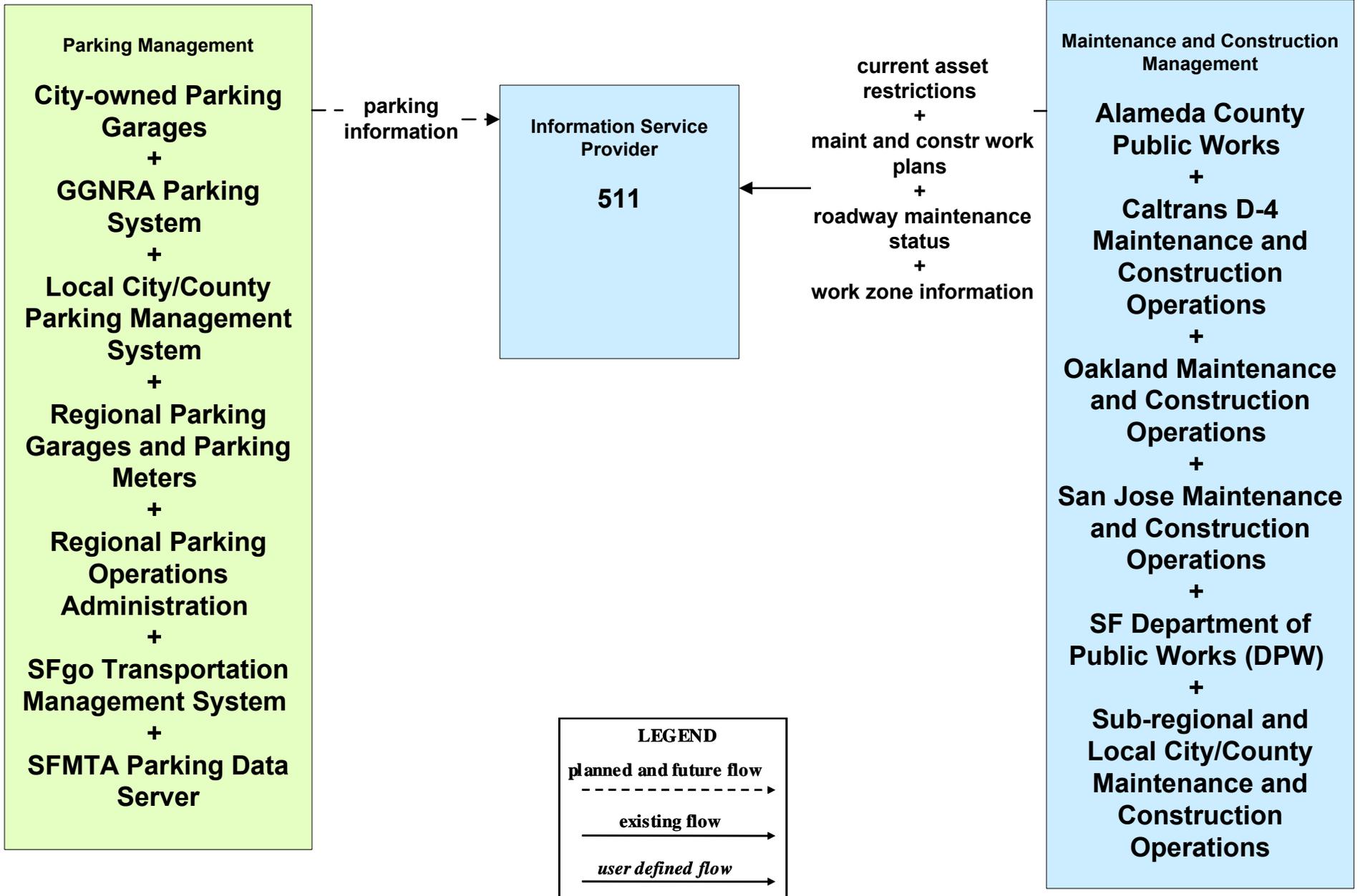
ATIS01 - Broadcast Traveler Information

511 (Inputs) (1 of 2)

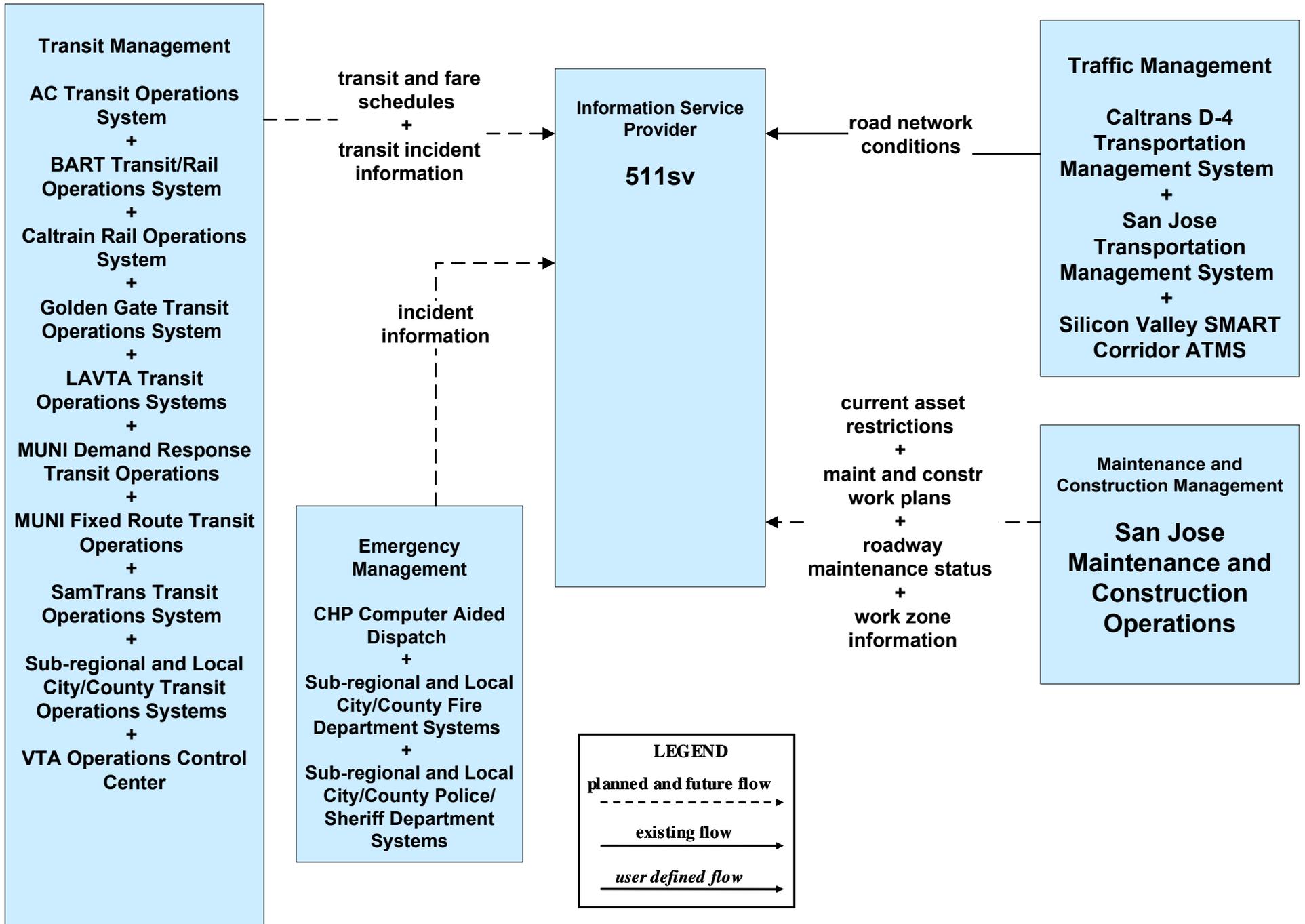


ATIS01 - Broadcast Traveler Information

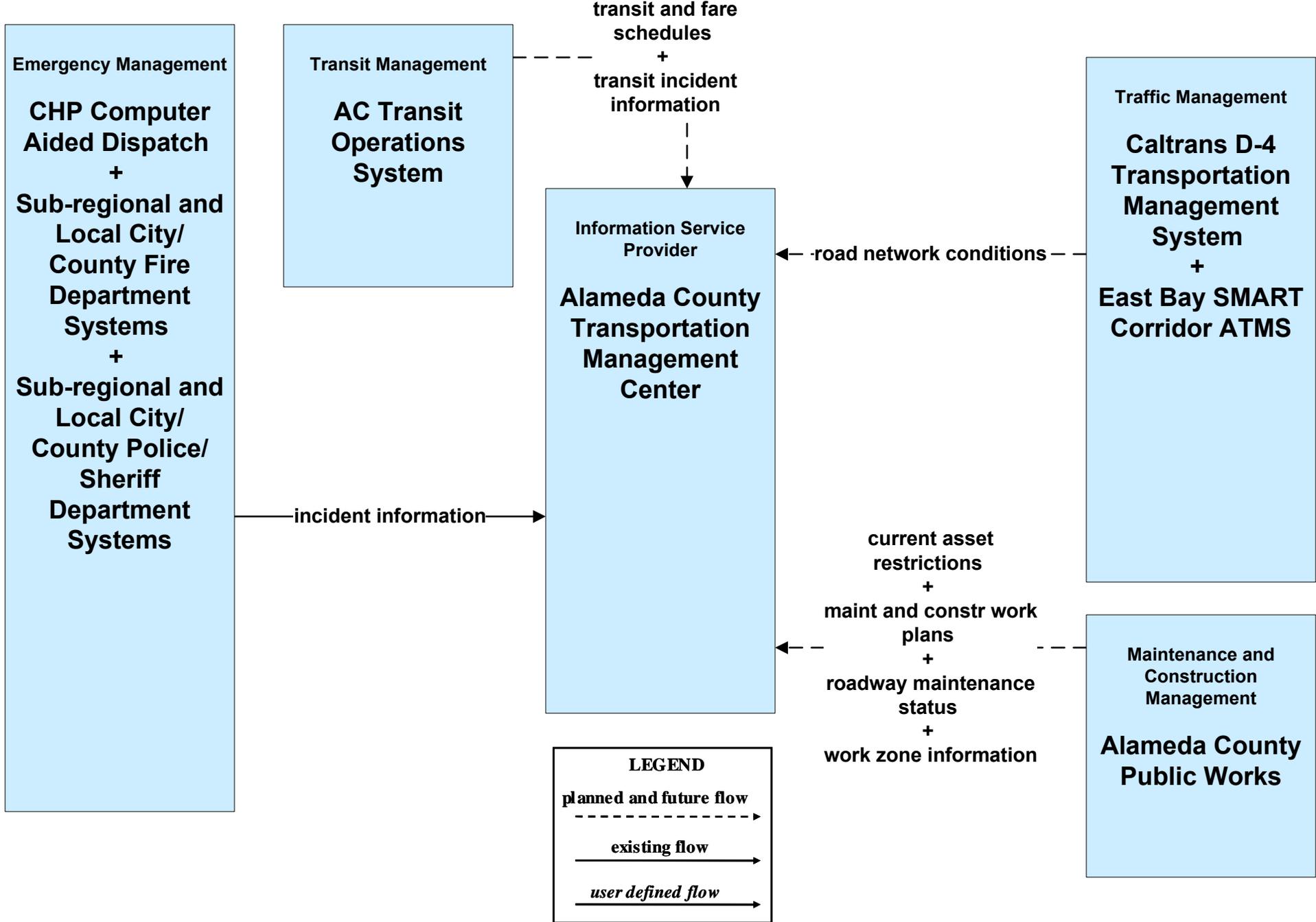
511 (Inputs) (2 of 2)



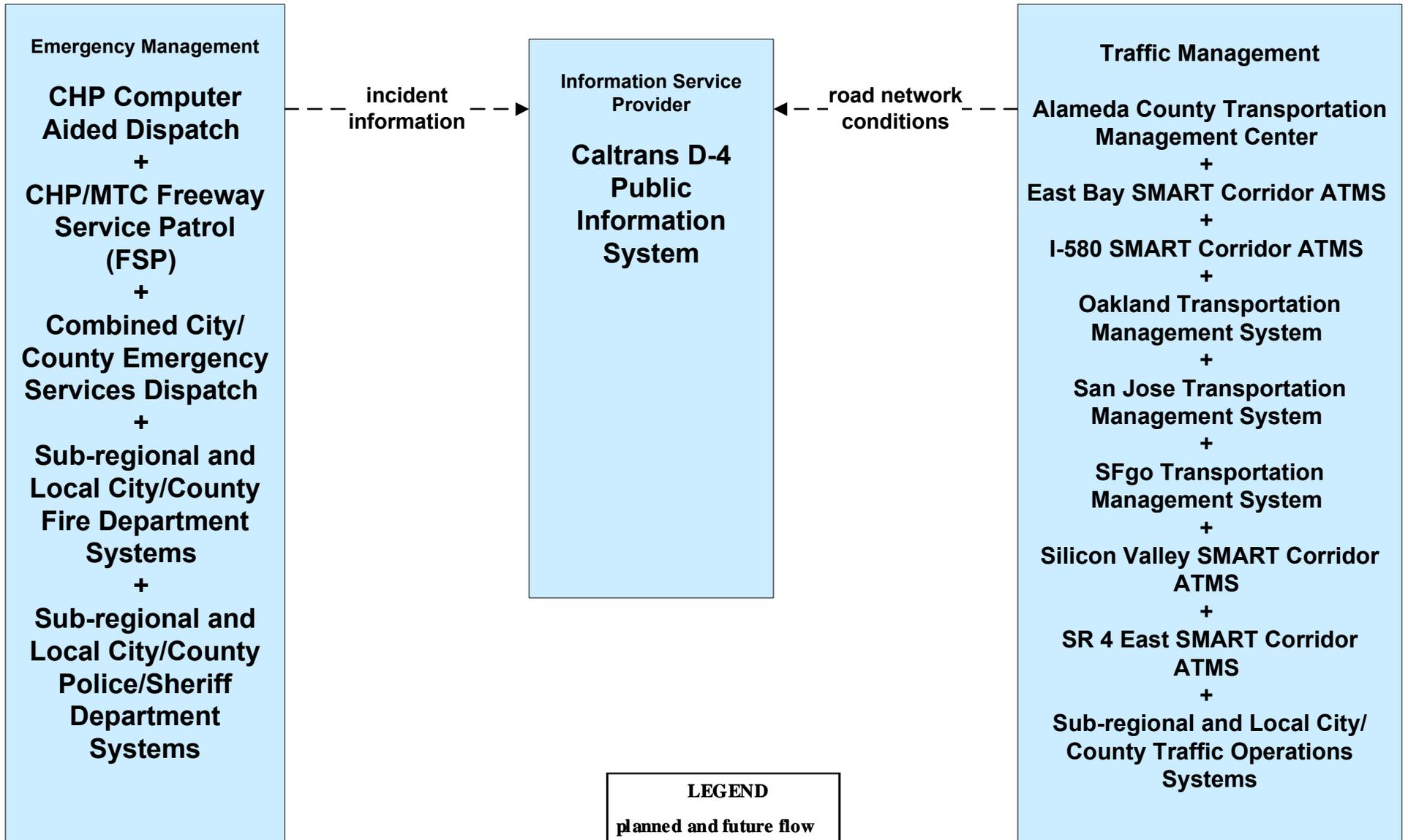
ATIS01 - Broadcast Traveler Information 511sv.org (Inputs)



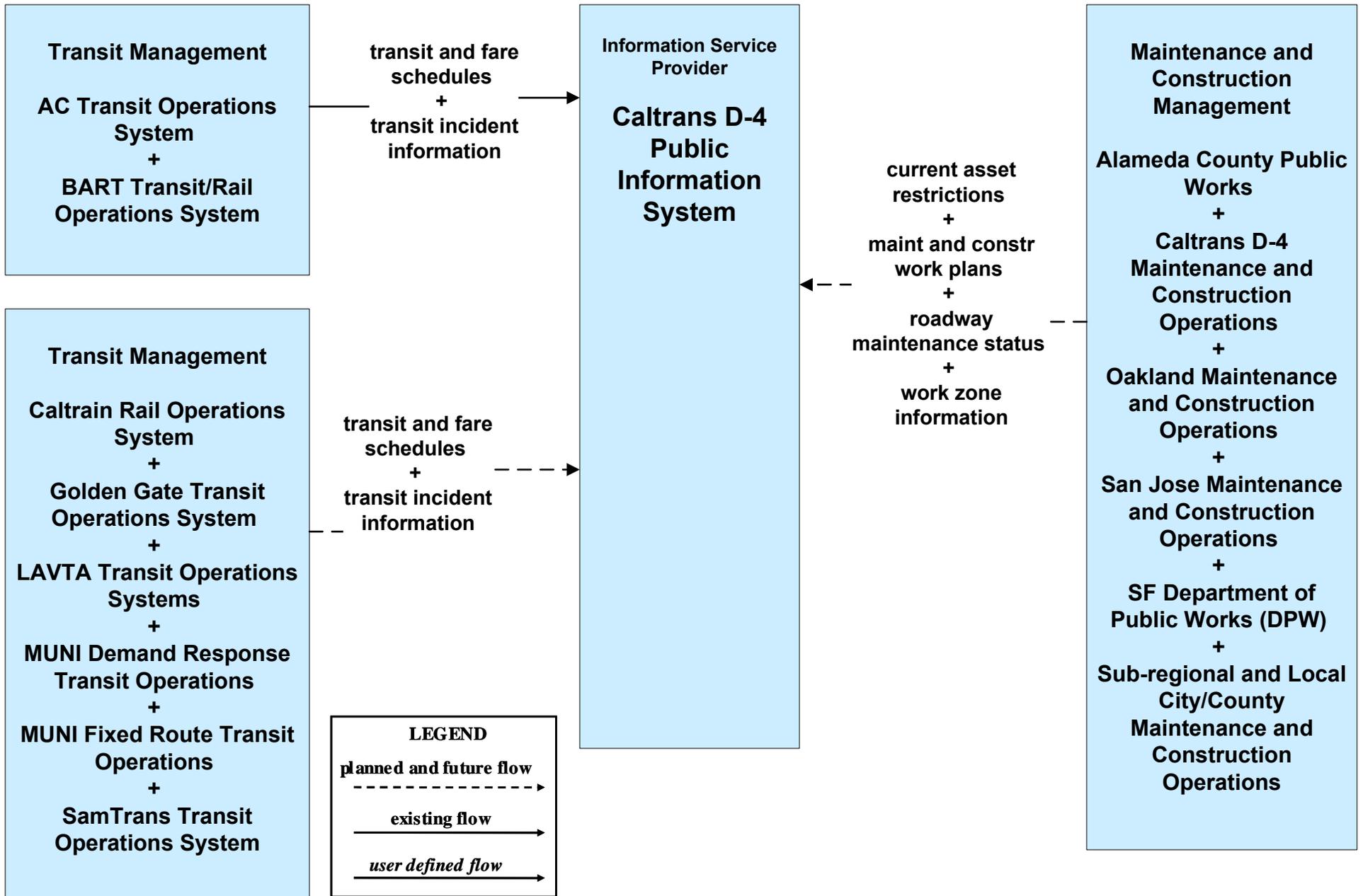
**ATIS01 - Broadcast Traveler Information
Alameda County Public Information System (Inputs)**



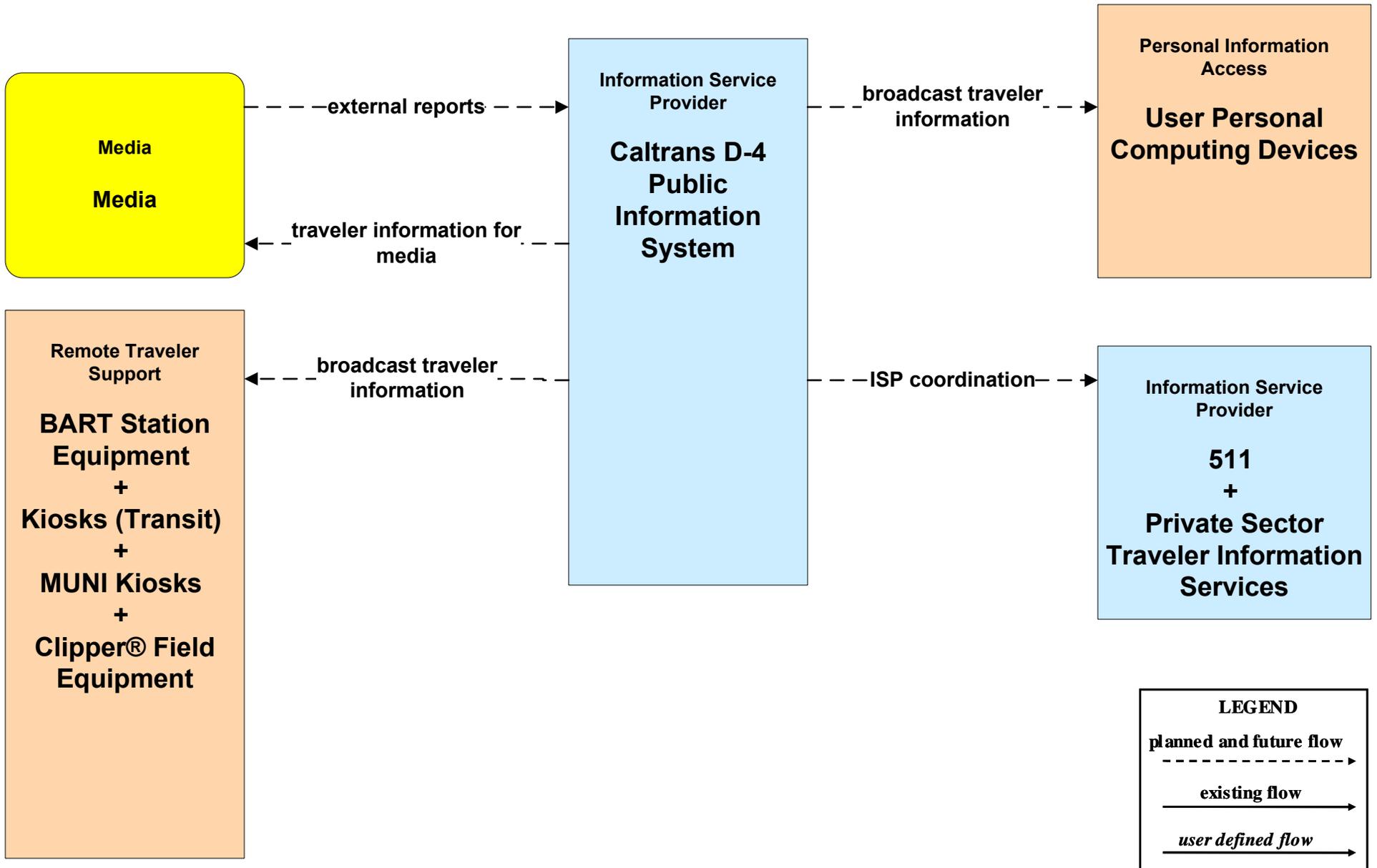
**ATIS01 - Broadcast Traveler Information
Caltrans D-4 Public Information System (Inputs) (1 of 2)**



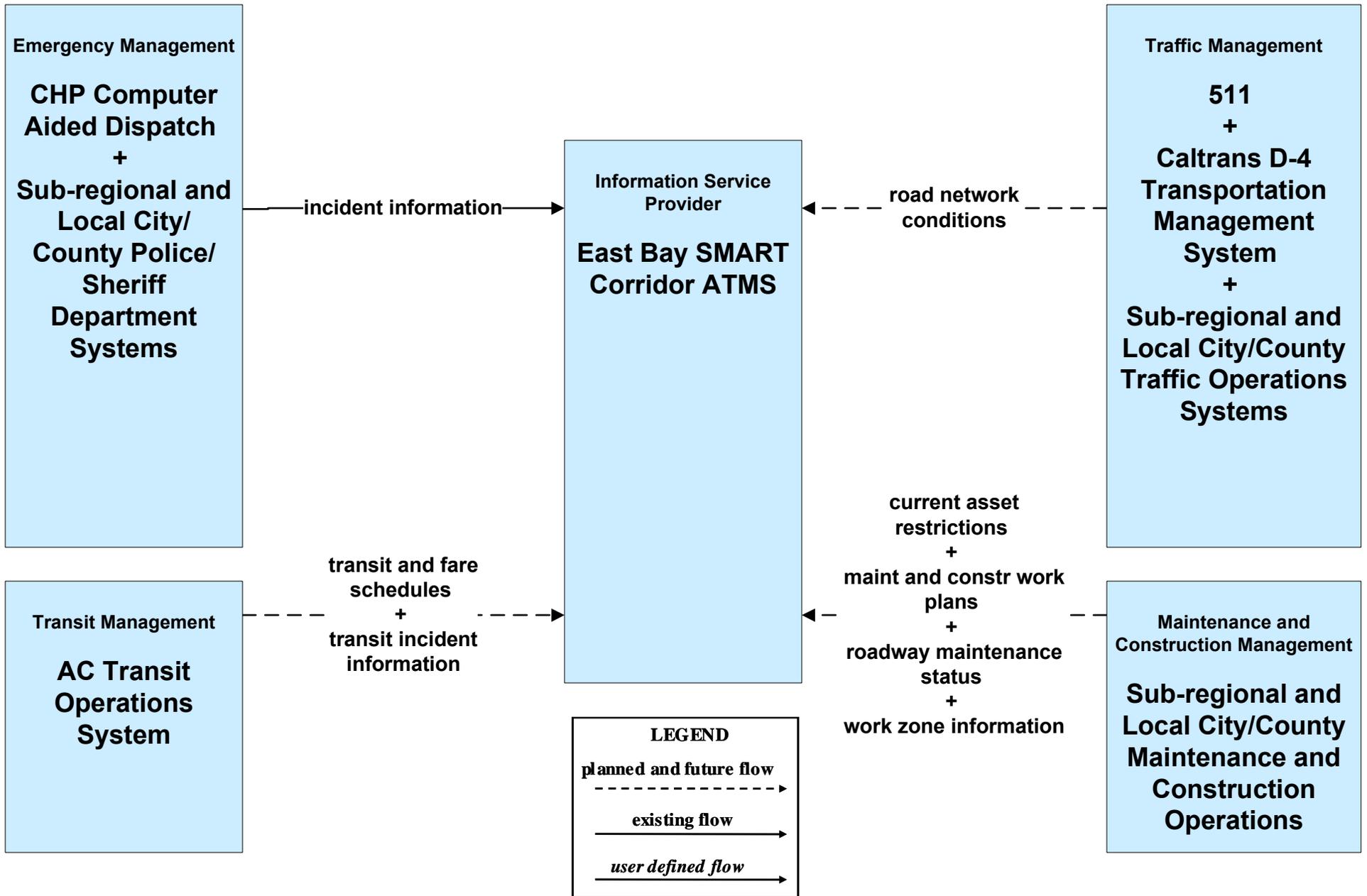
**ATIS01 - Broadcast Traveler Information
Caltrans D-4 Public Information System (Inputs) (2 of 2)**



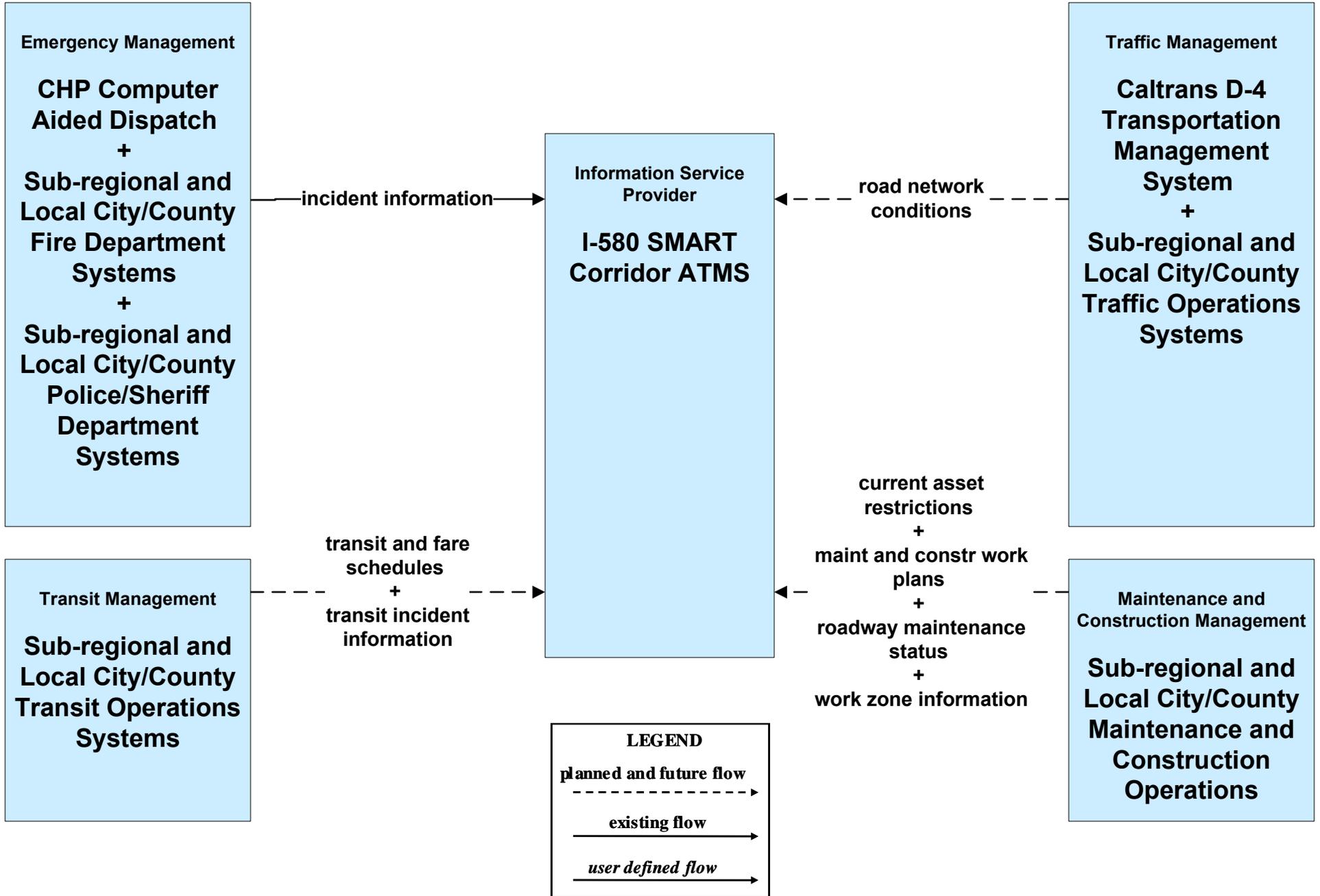
**ATIS01 - Broadcast Traveler Information
Caltrans D-4 Public Information System (Outputs)**



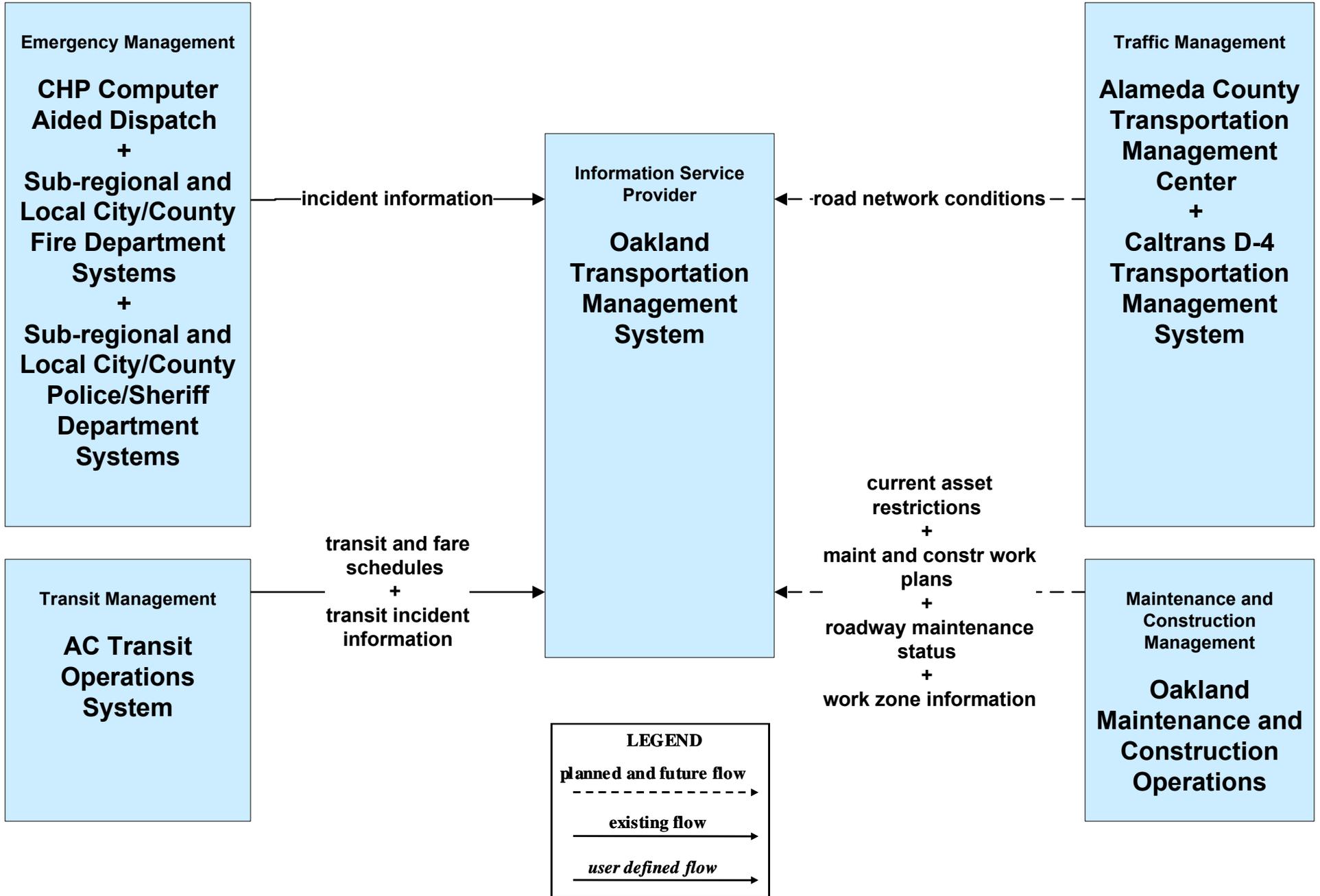
**ATIS01 - Broadcast Traveler Information
East Bay SMART Corridor Public Information System (Inputs)**



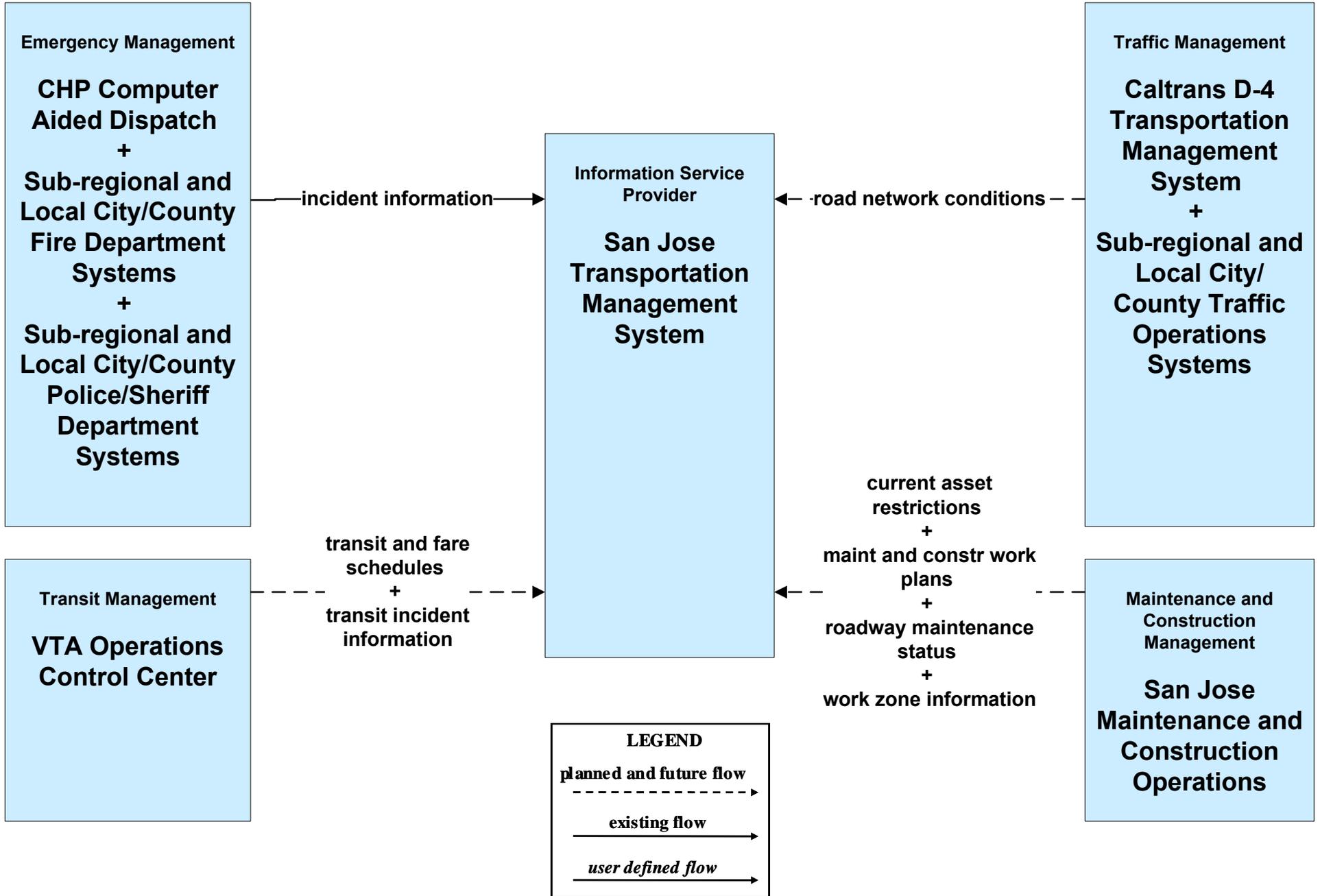
**ATIS01 - Broadcast Traveler Information
I-580 SMART Corridor Public Information System (Inputs)**



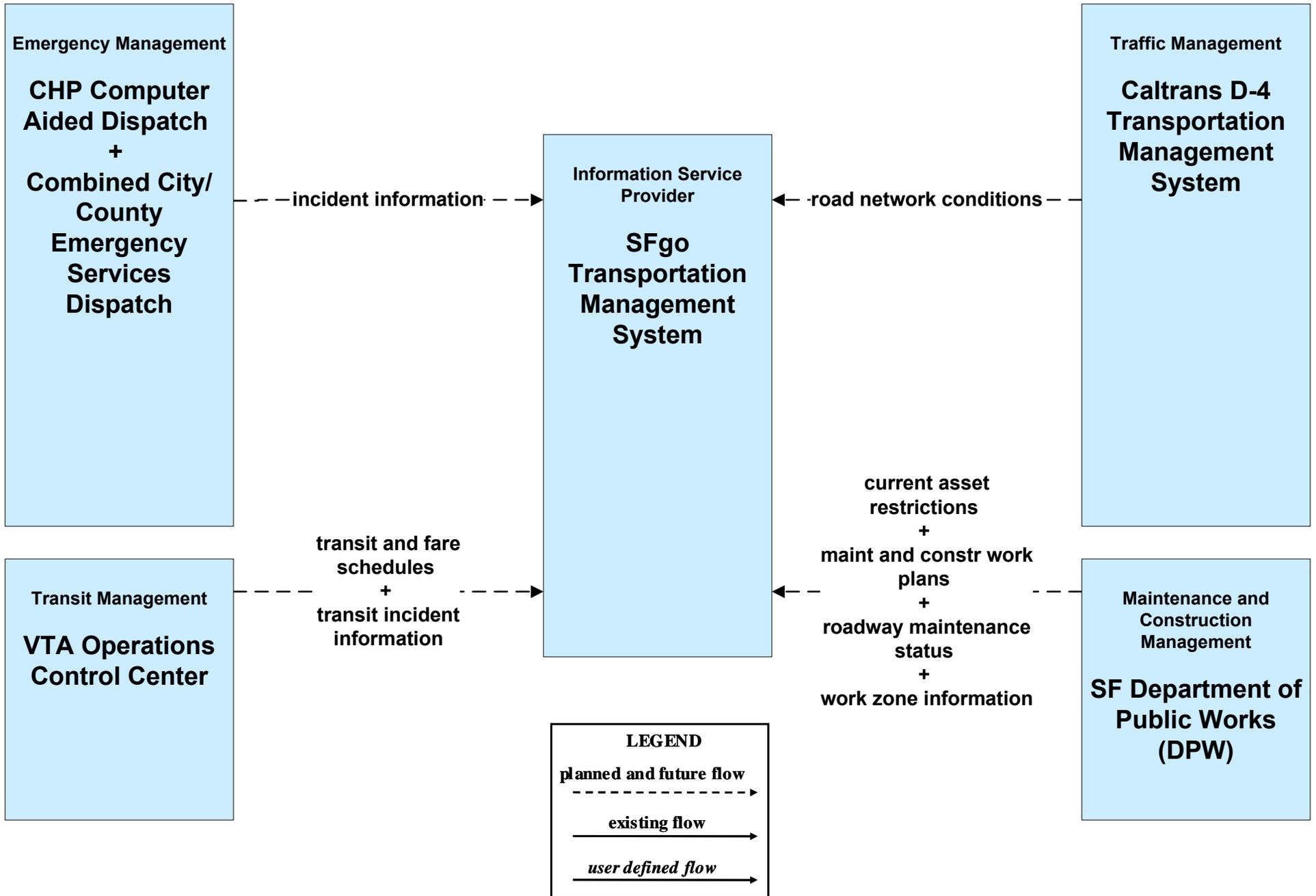
**ATIS01 - Broadcast Traveler Information
Oakland Public Information System (Inputs)**



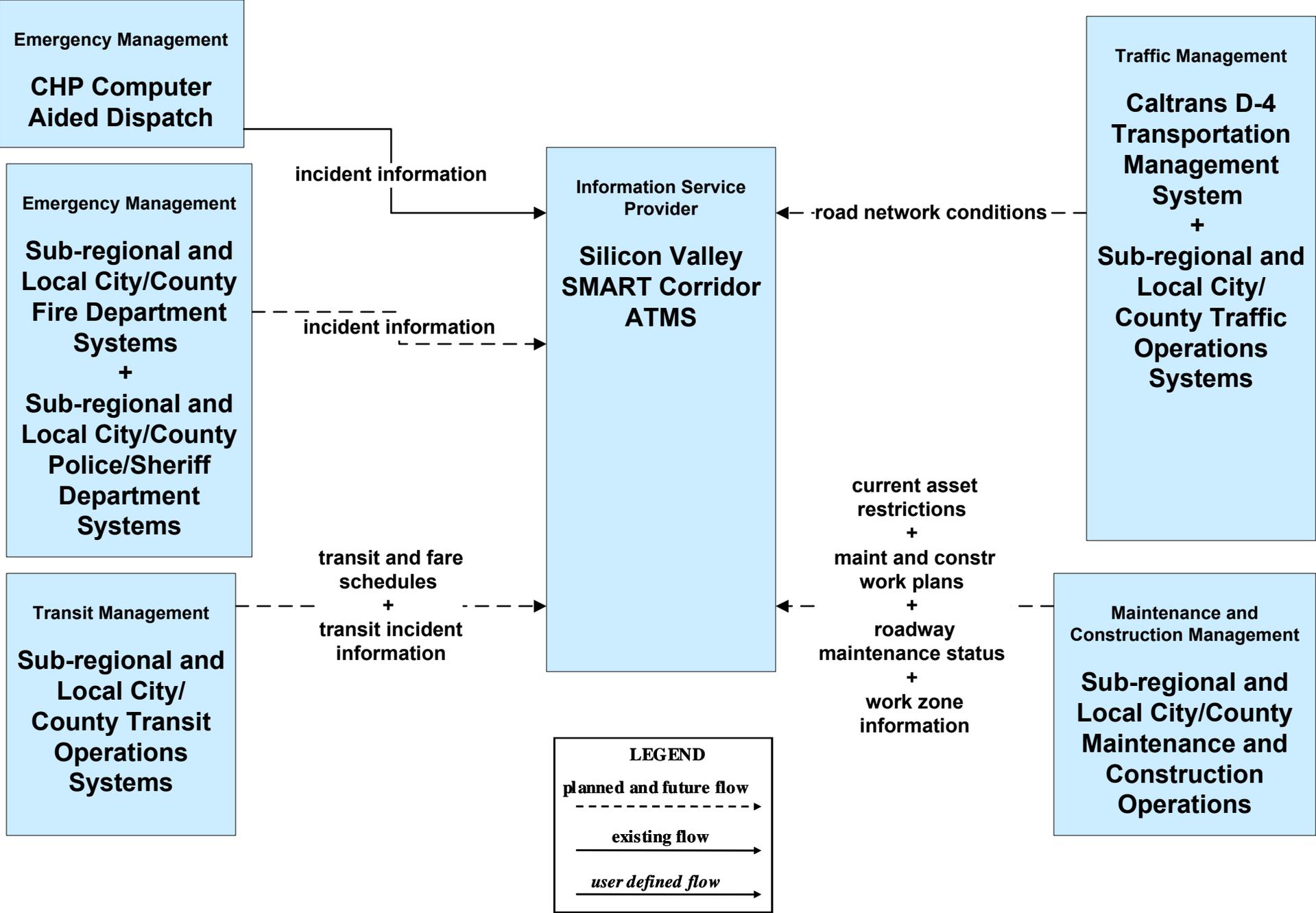
**ATIS01 - Broadcast Traveler Information
San Jose Public Information System (Inputs)**



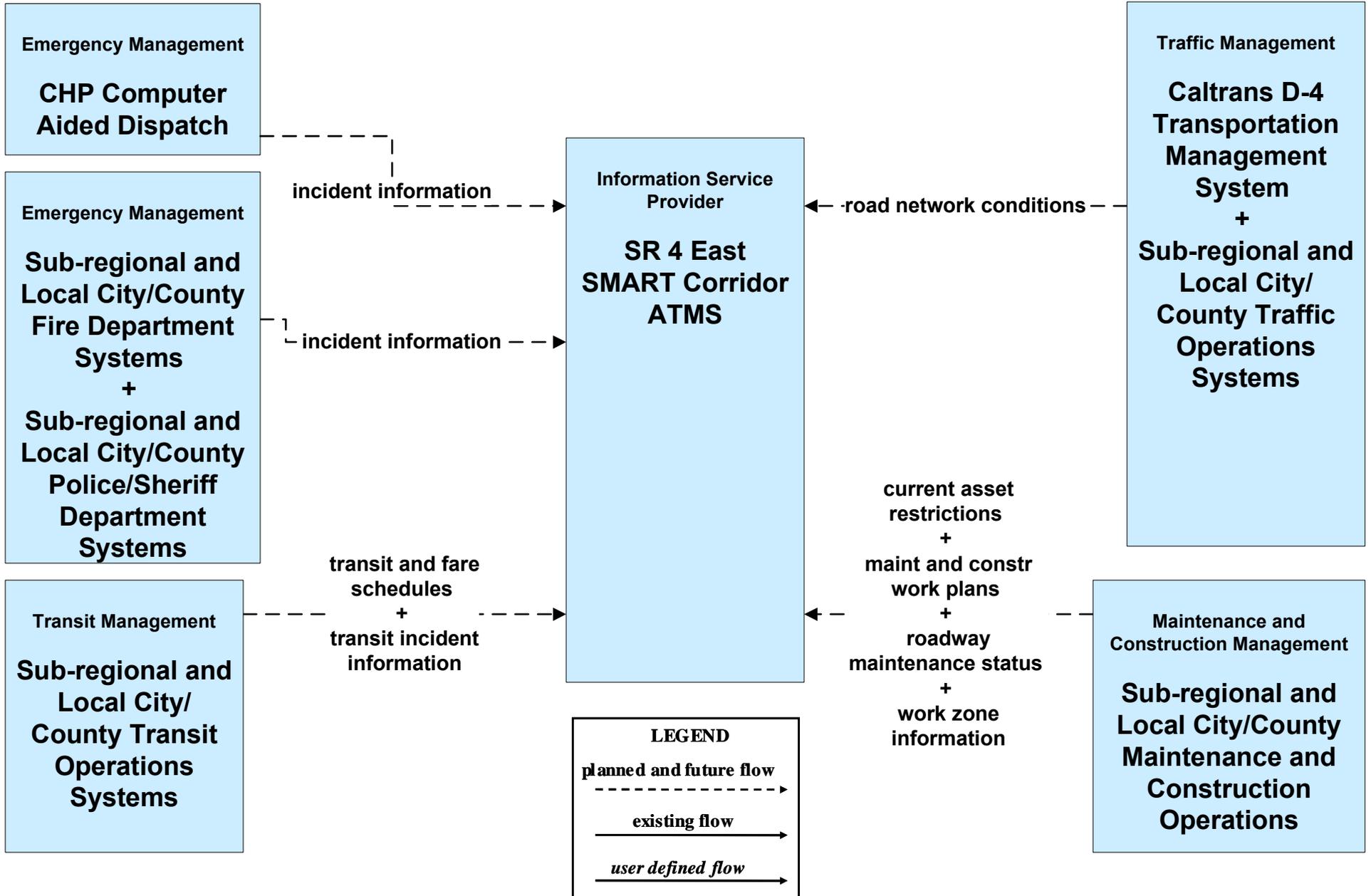
**ATIS01 - Broadcast Traveler Information
San Francisco Public Information System (Inputs)**



**ATIS01 - Broadcast Traveler Information
Silicon Valley Public Information System (Inputs)**

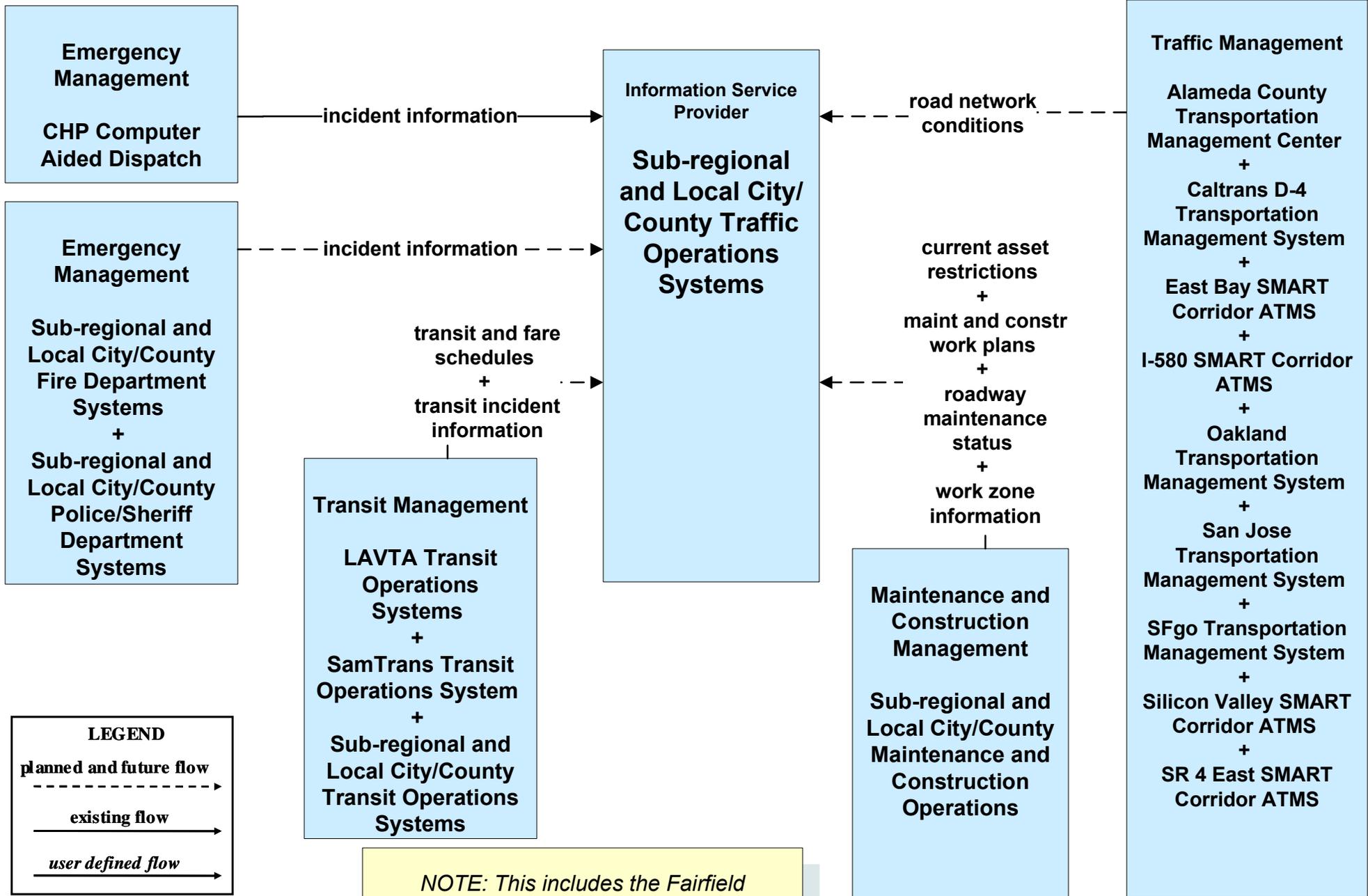


**ATIS01 - Broadcast Traveler Information
SR 4 East Public Information System (Inputs)**

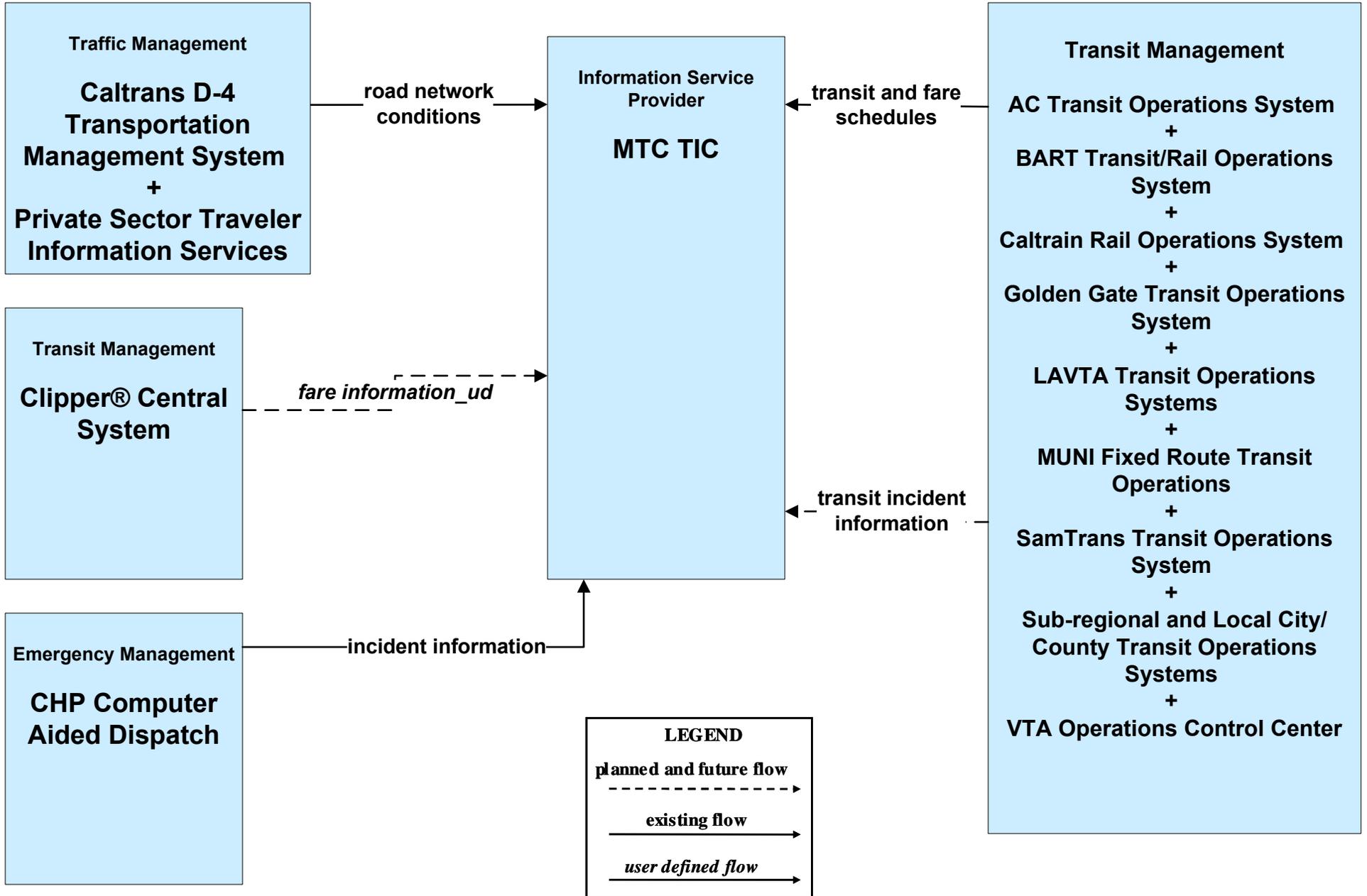


ATIS01 - Broadcast Traveler Information

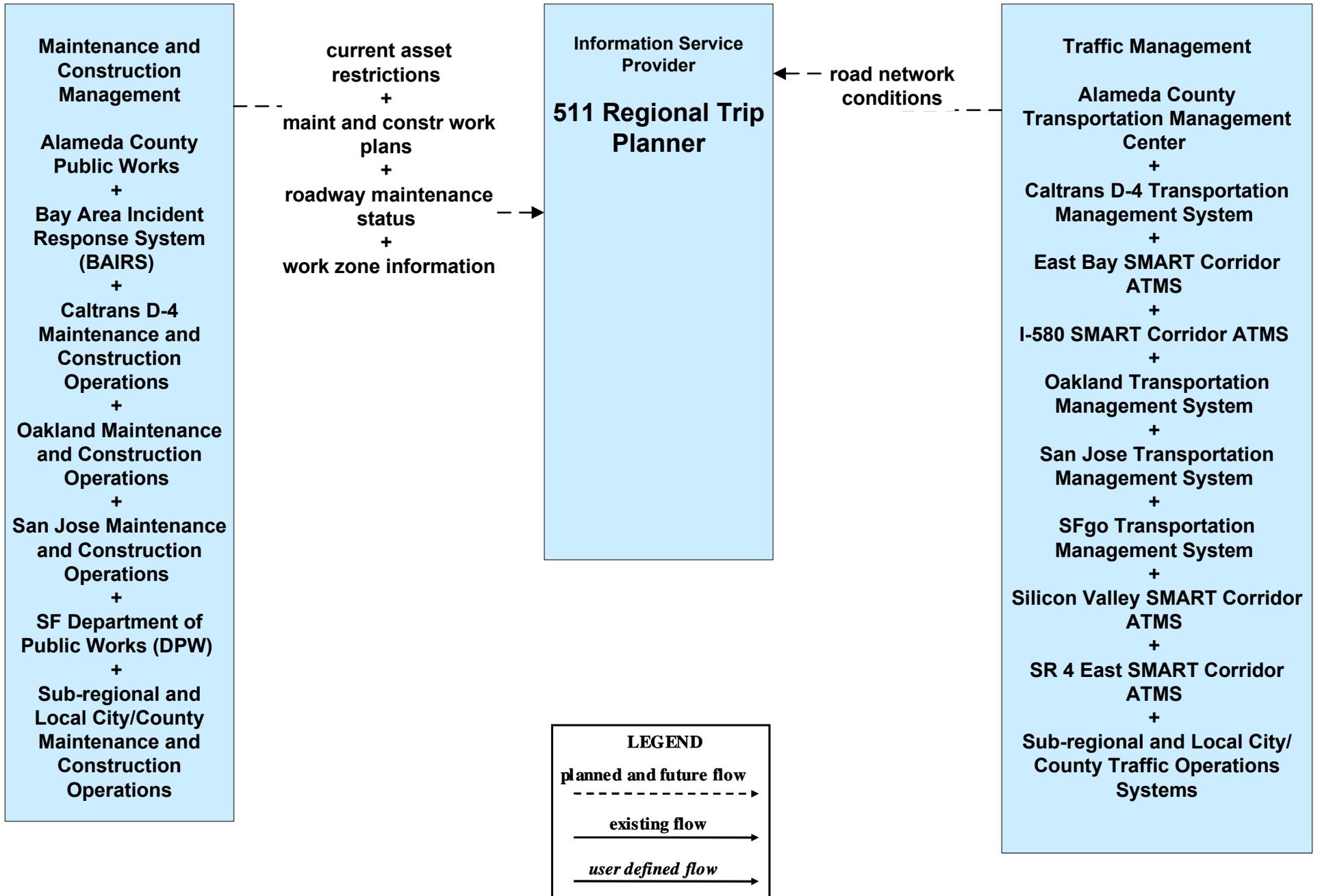
Local City/County Public Information System (Inputs)



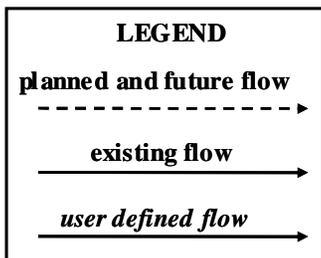
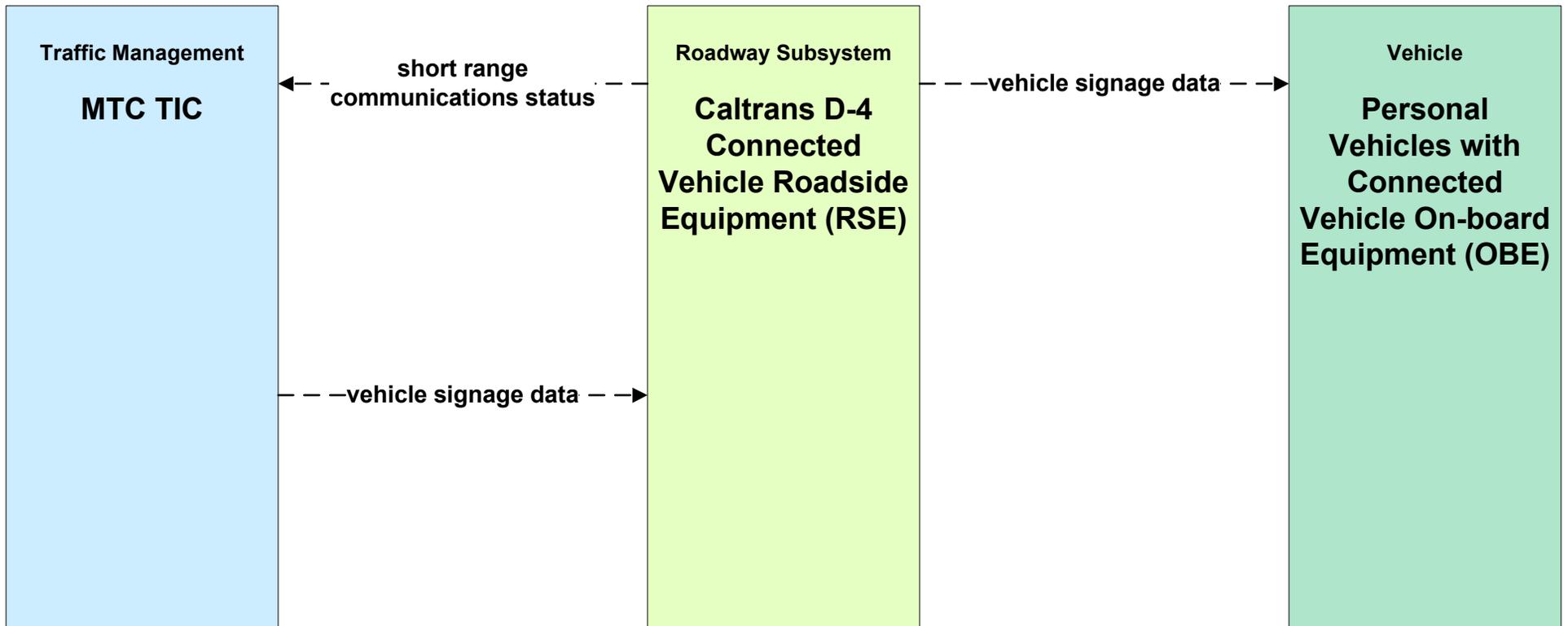
**ATIS1 - Broadcast Traveler Information
MTC TIC (Inputs)**



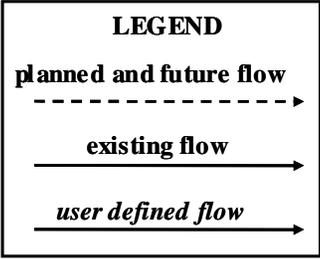
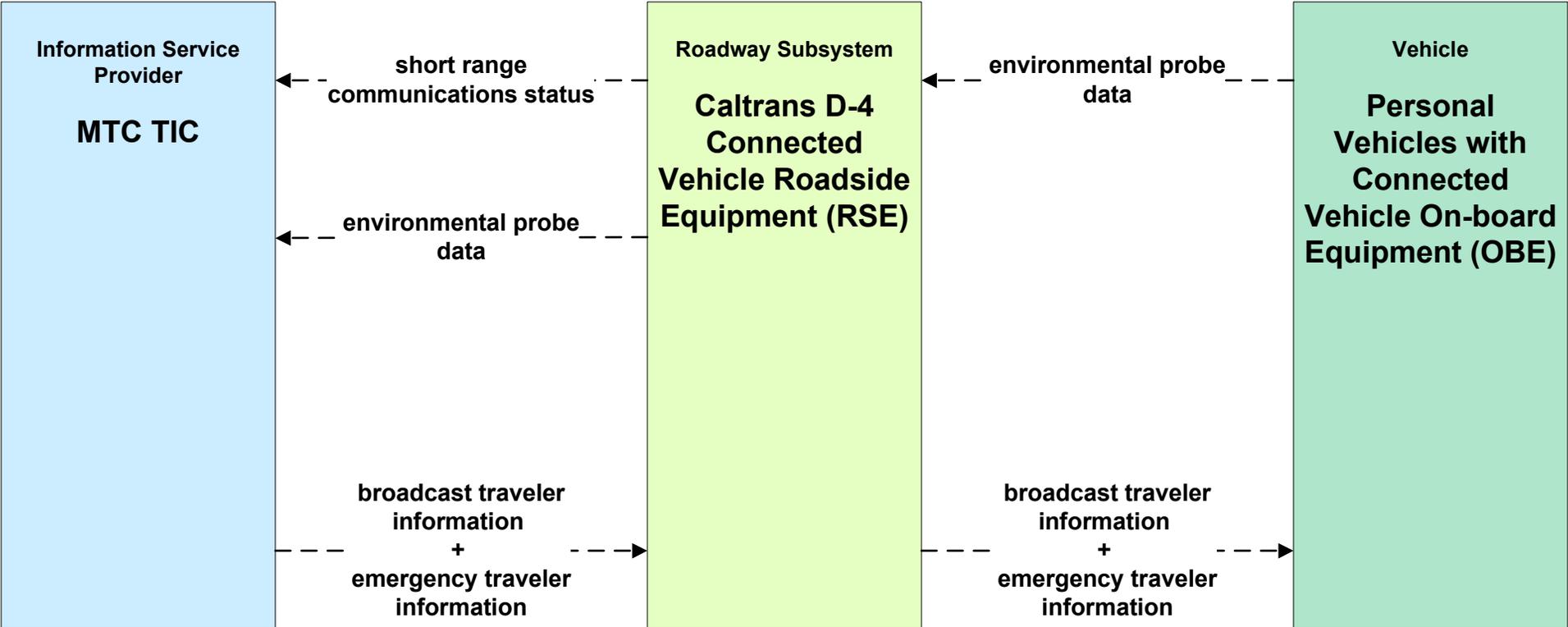
ATIS02 - Interactive Traveler Information 511 Regional Trip Planner (Inputs) (1 of 3)



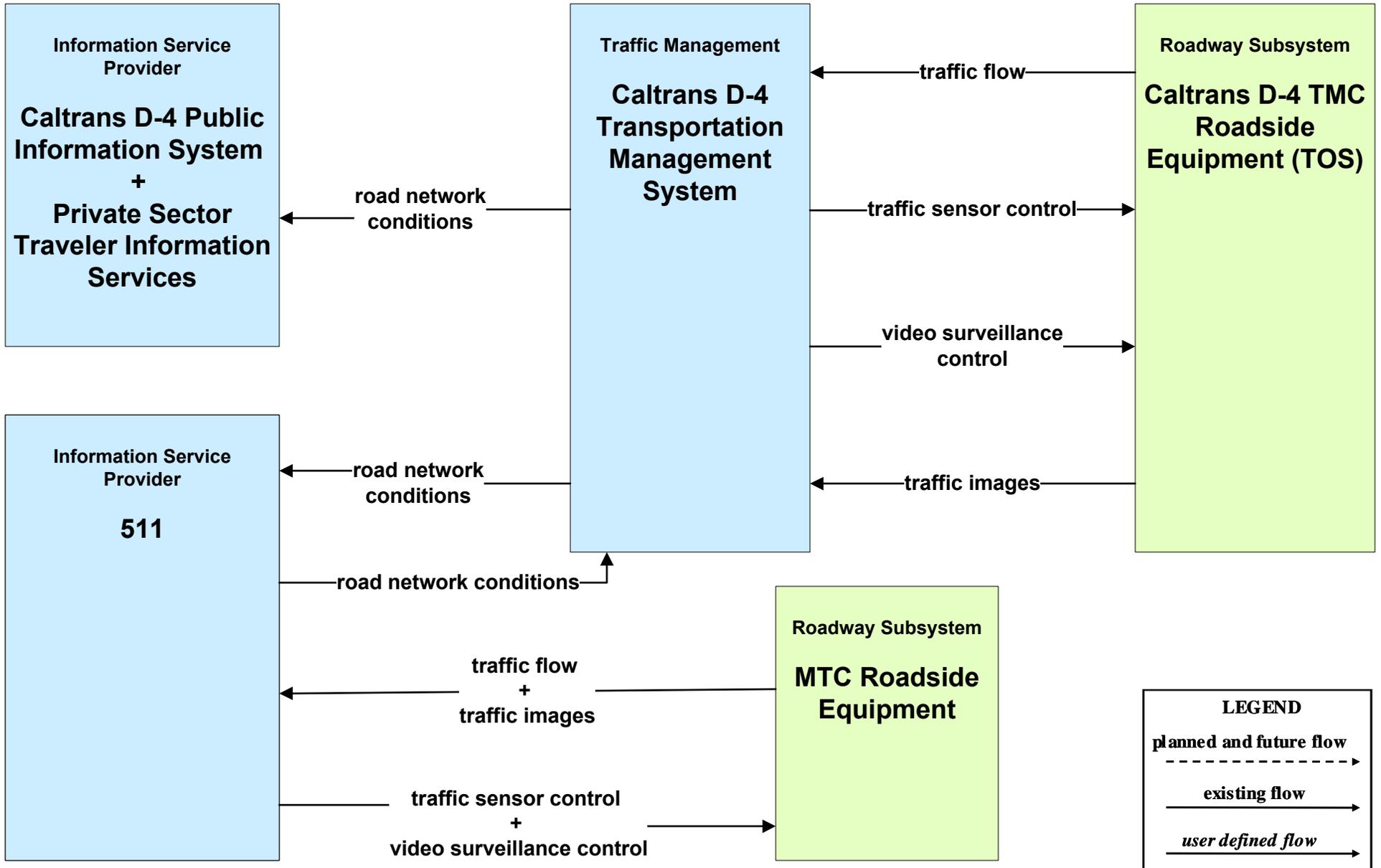
ATIS09 - In Vehicle Signing



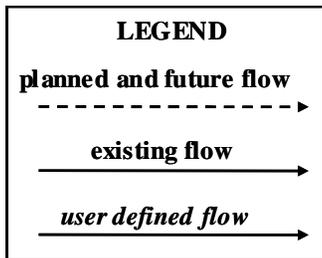
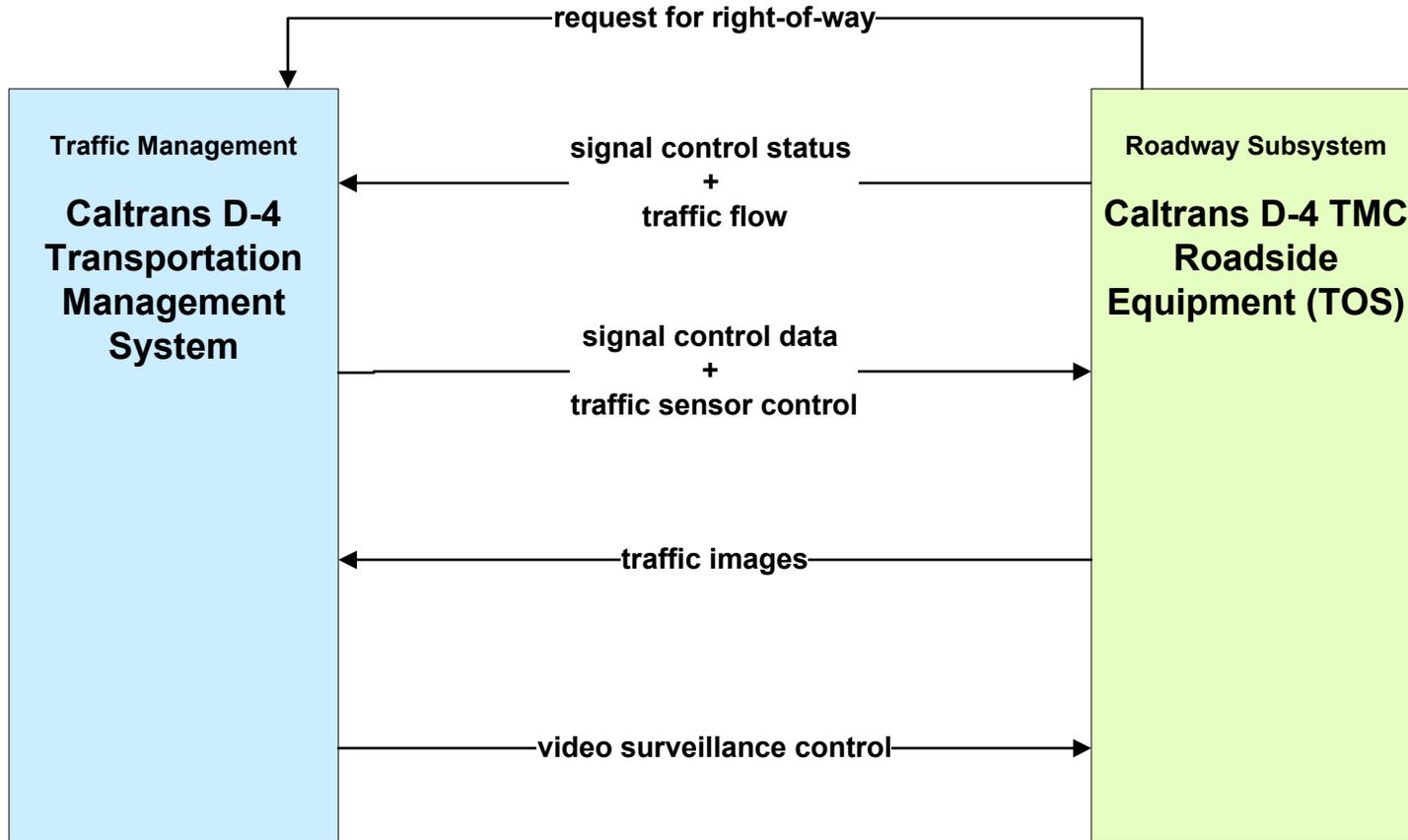
**ATIS10 - Connected Vehicle Traveler Information
and Information Collection**



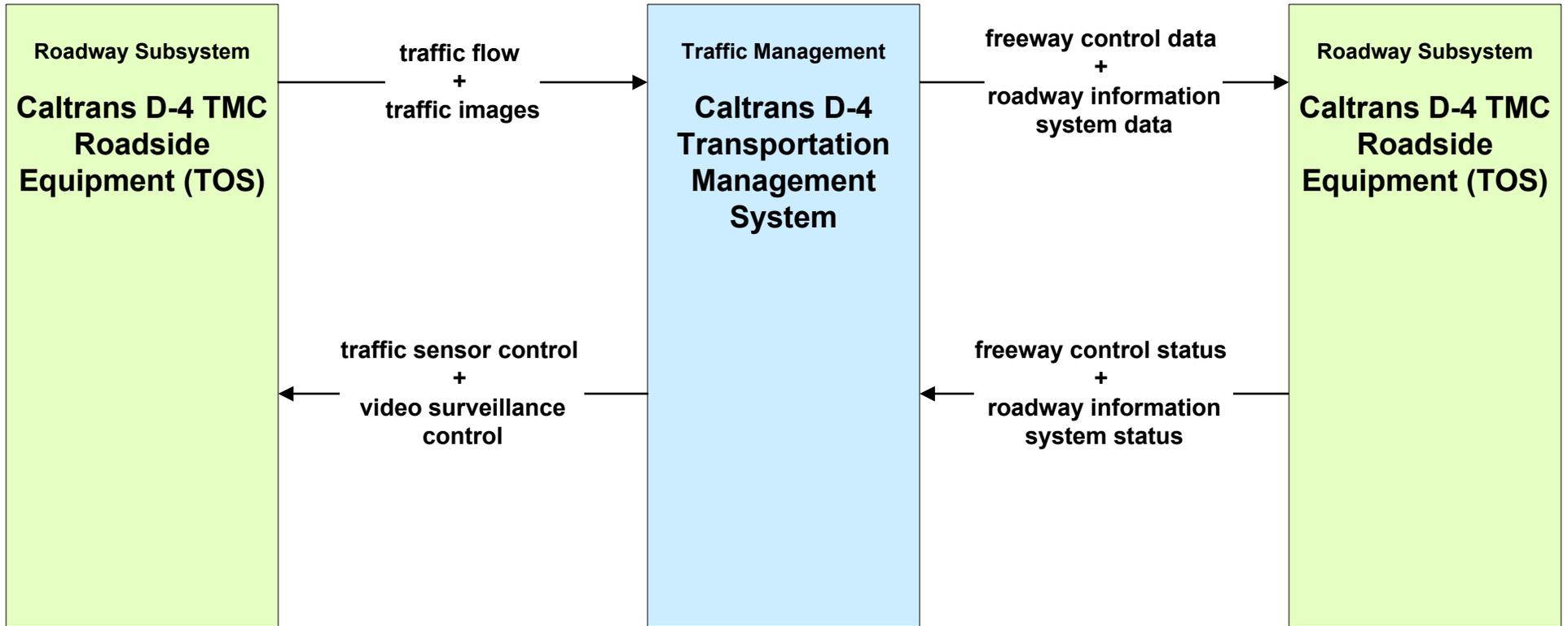
ATMS01 - Network Surveillance
Caltrans D-4 / 511



**ATMS03 - Surface Street Control
Caltrans D-4**

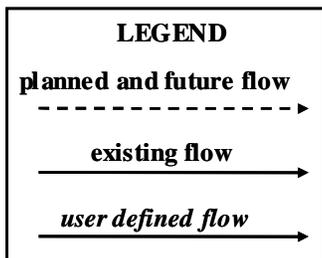


ATMS04 - Freeway Control Caltrans D-4 TMS

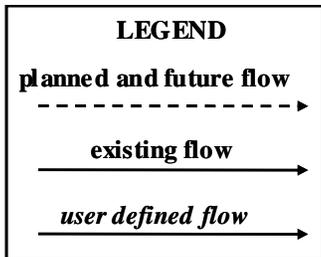
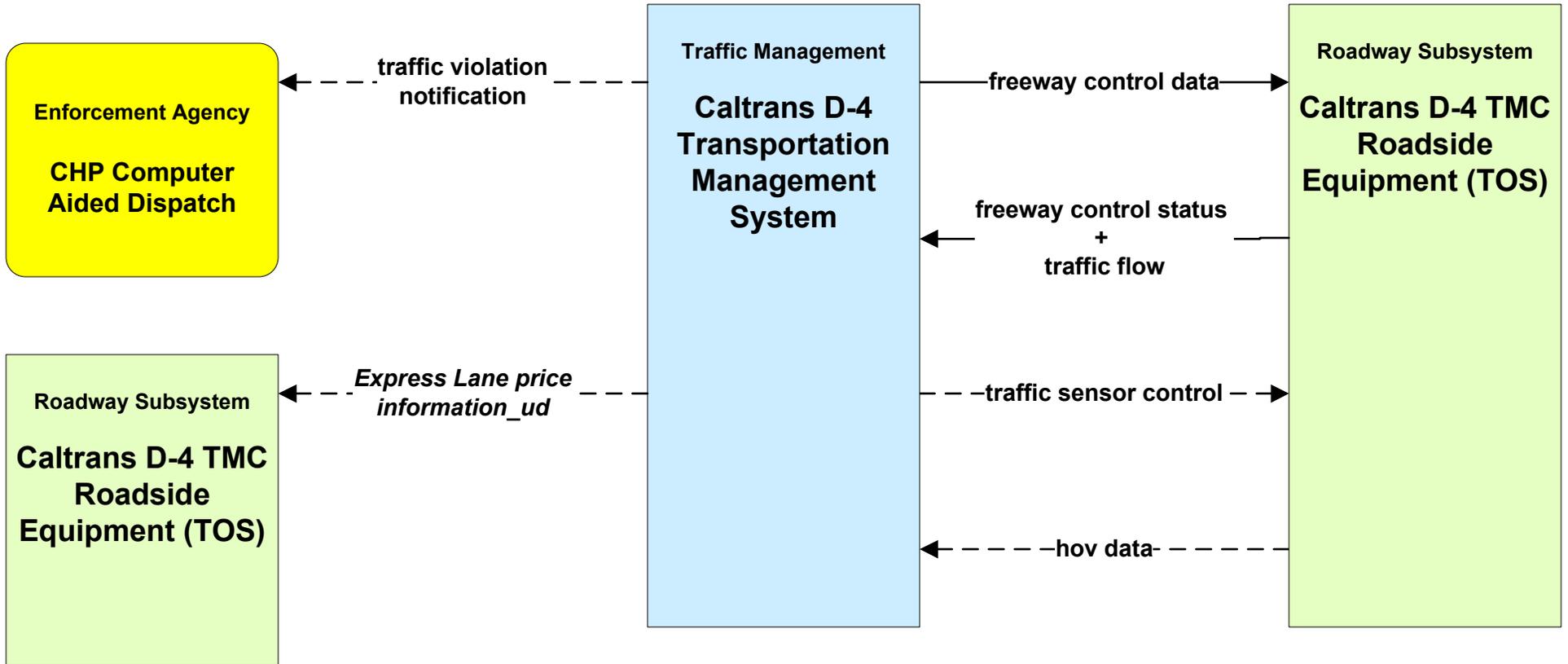


NOTE: CCTV and Sensors used to manage operations on freeway

NOTE: DMS, Ramp Meters, and Lane Control Devices used to manage operations on freeway

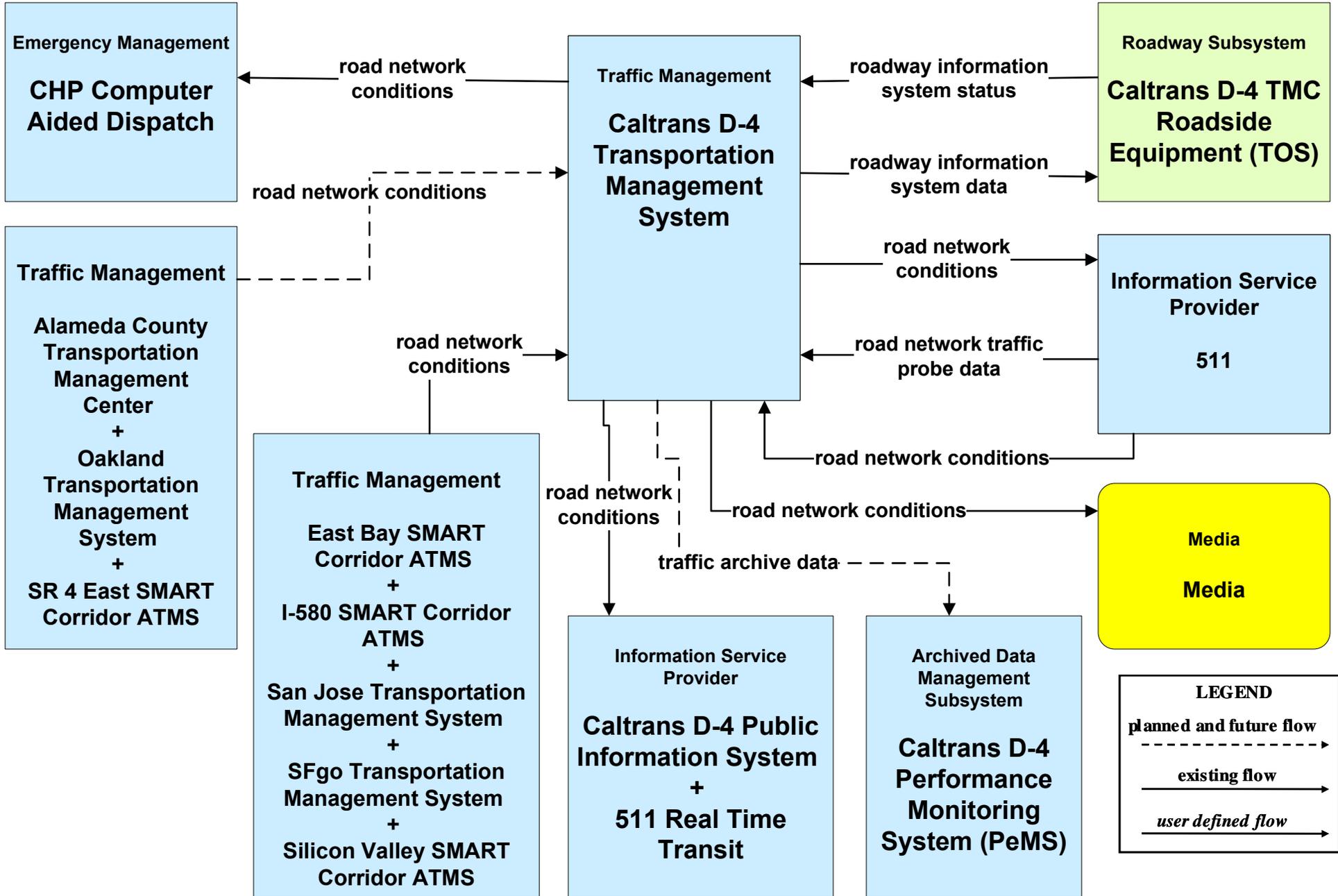


ATMS05 - HOV Lane Management Express Lanes

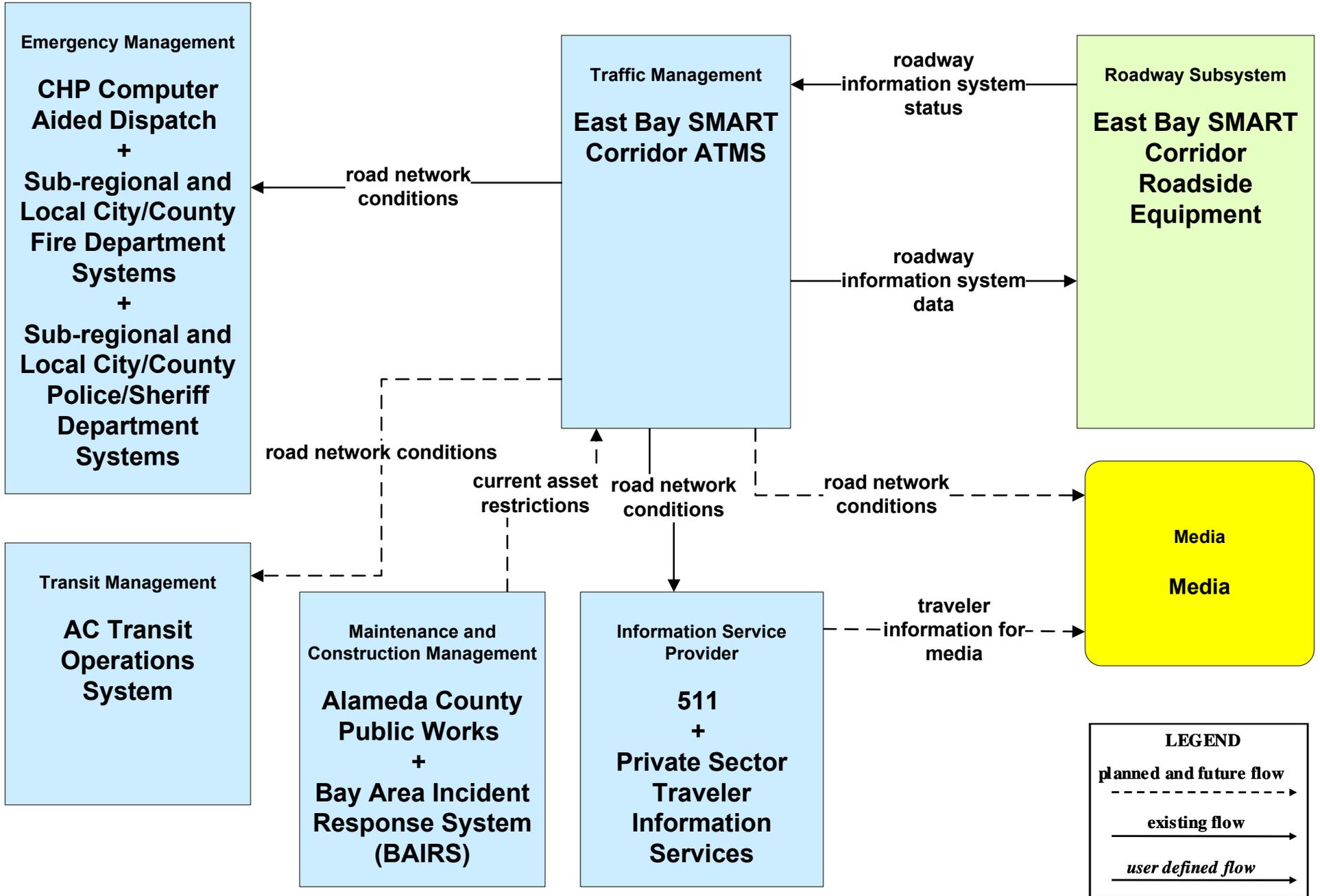


NOTE: Currently for I-680

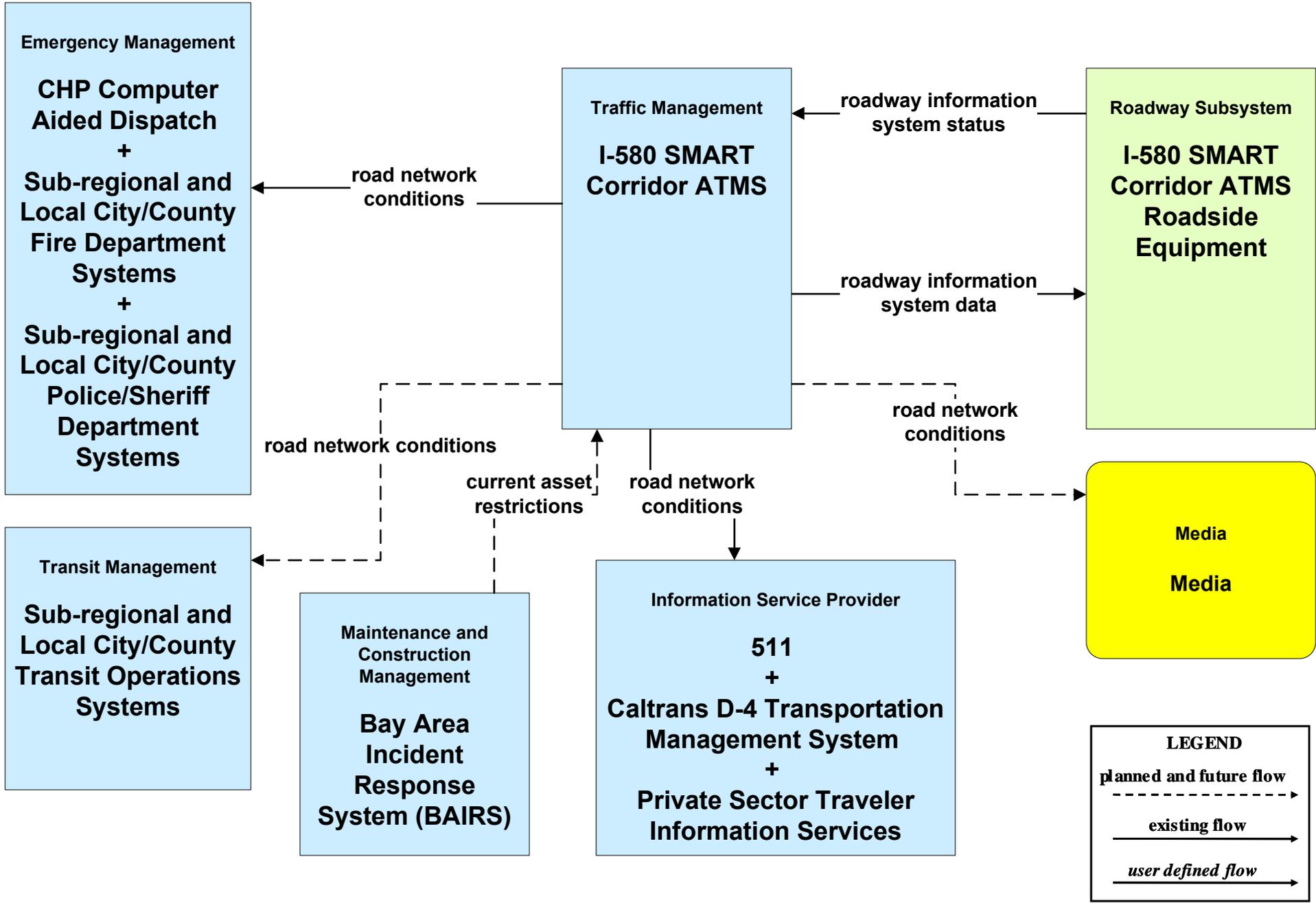
ATMS06 - Traffic Information Dissemination Caltrans D-4



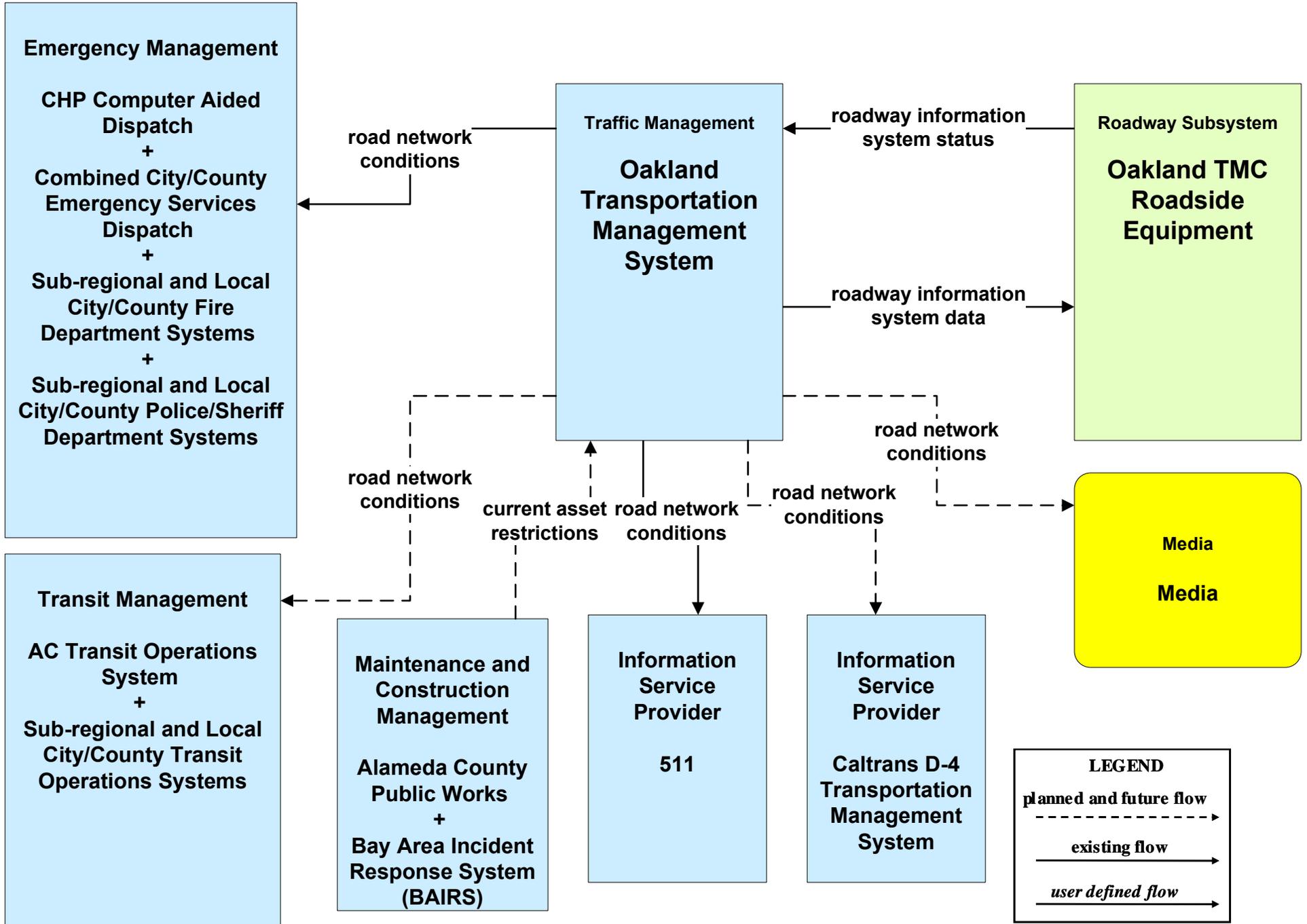
ATMS06 - Traffic Information Dissemination East Bay SMART Corridor ATMS



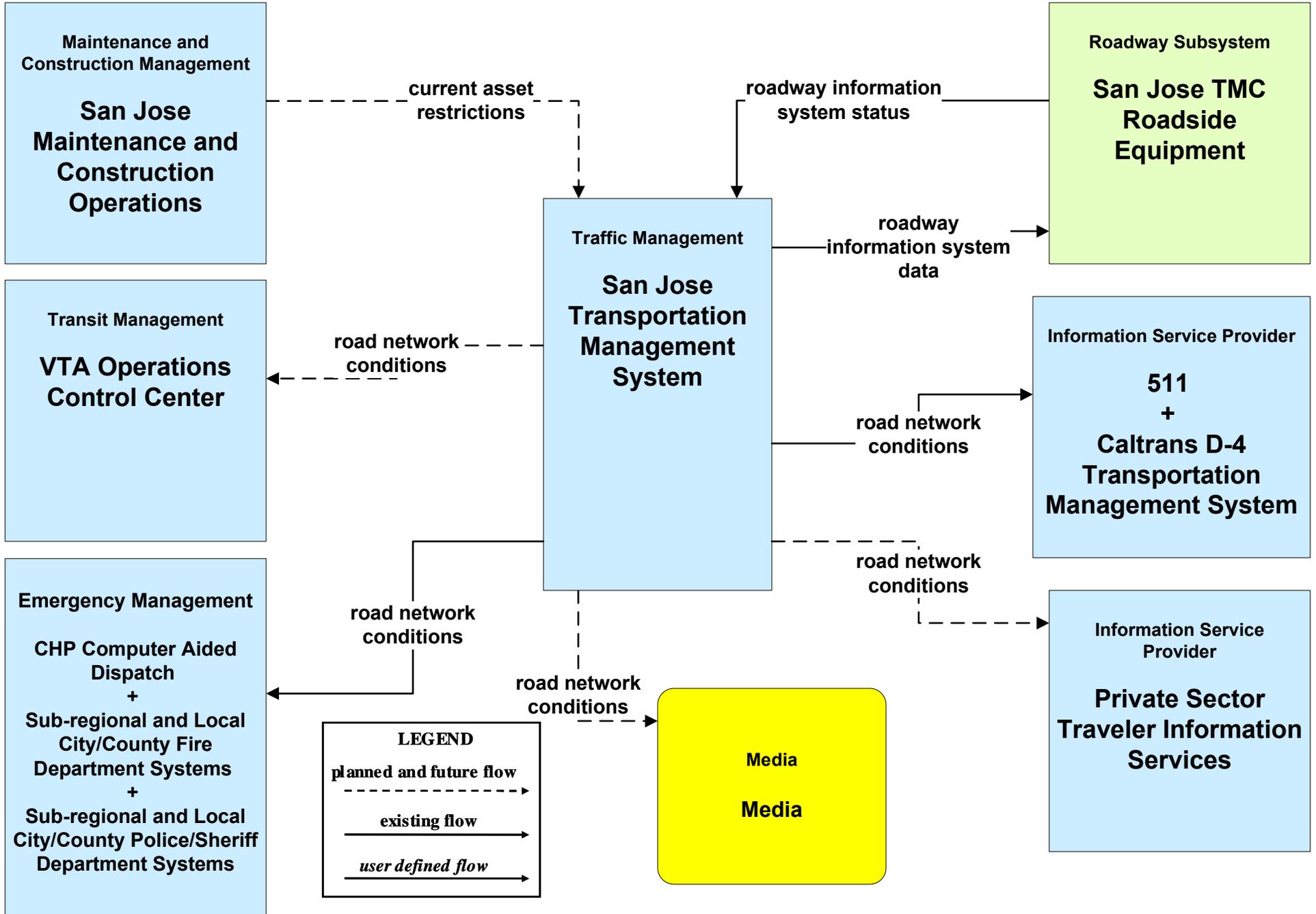
ATMS06 - Traffic Information Dissemination I-580 SMART Corridor ATMS



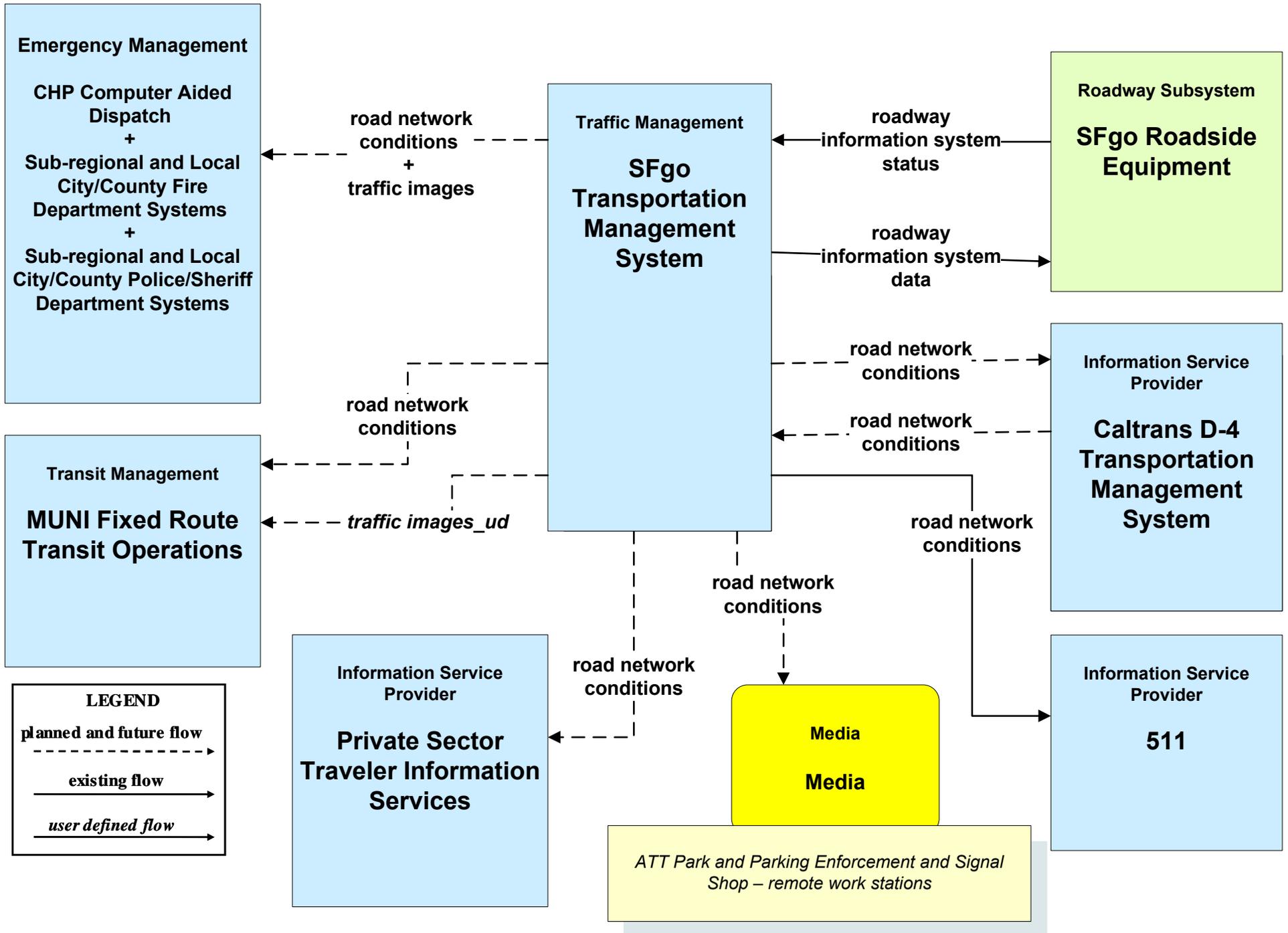
ATMS06 - Traffic Information Dissemination Oakland TMS



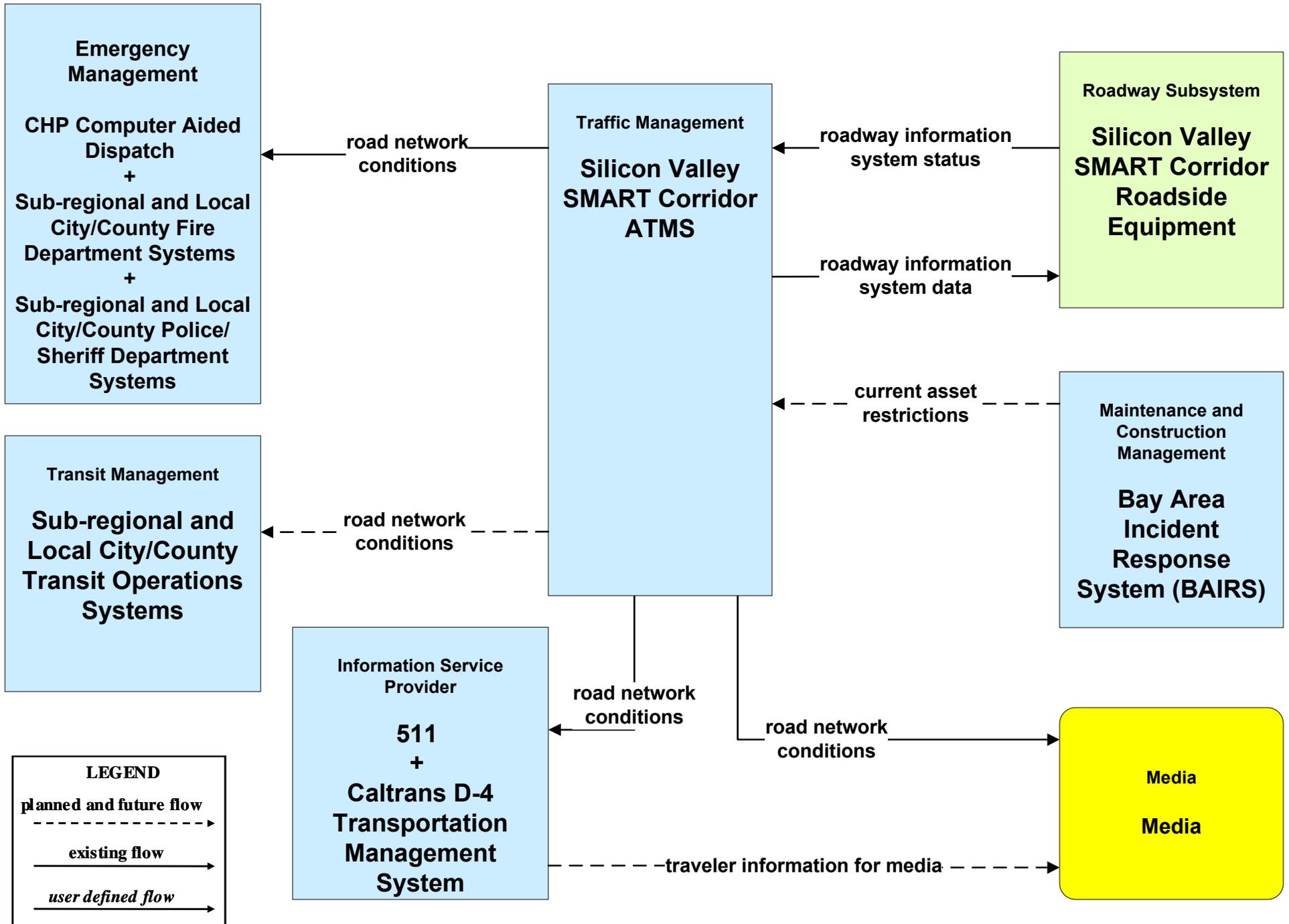
ATMS06 - Traffic Information Dissemination San Jose TMS



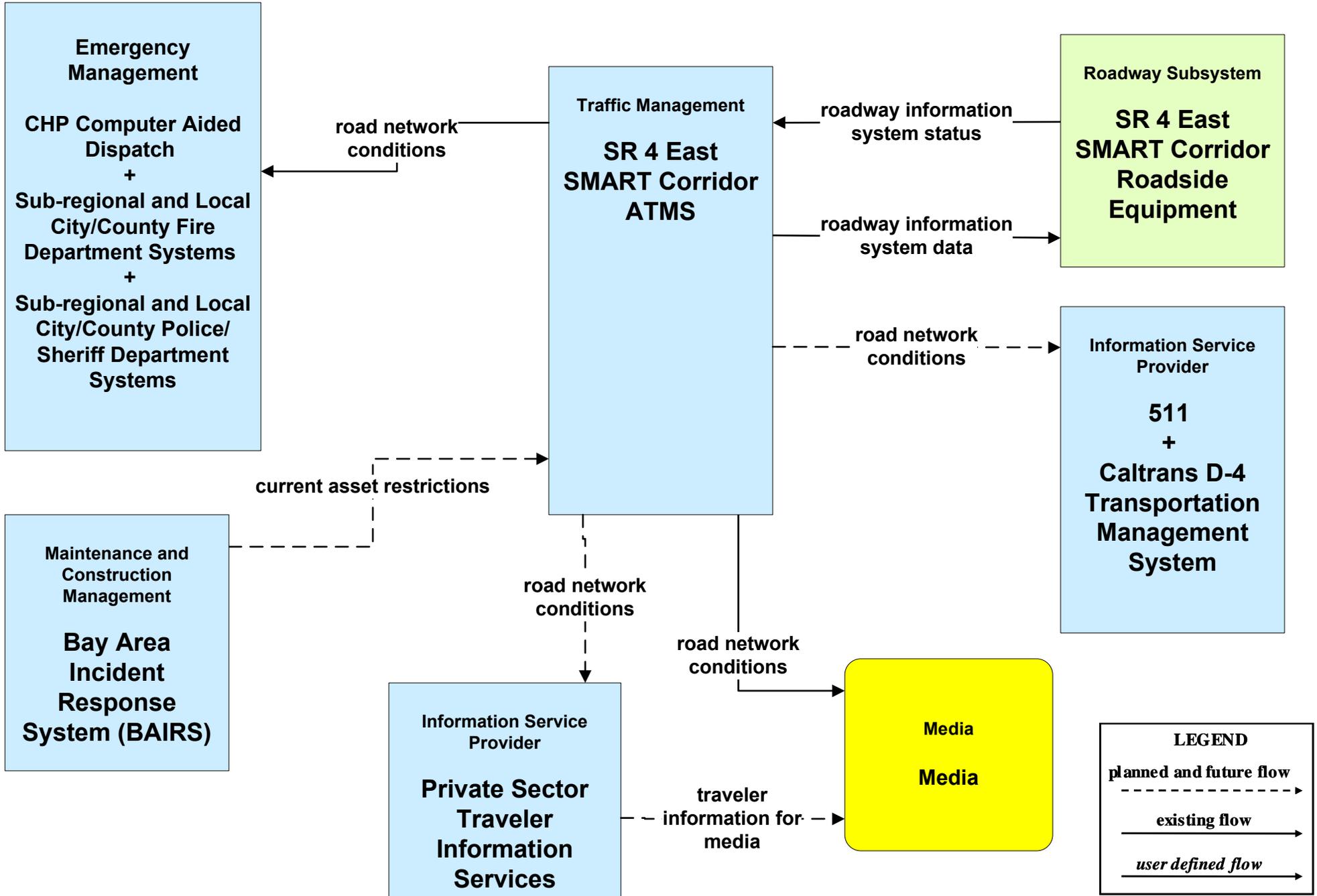
ATMS06 - Traffic Information Dissemination SFgo TMS



ATMS06 - Traffic Information Dissemination Silicon Valley ATMS

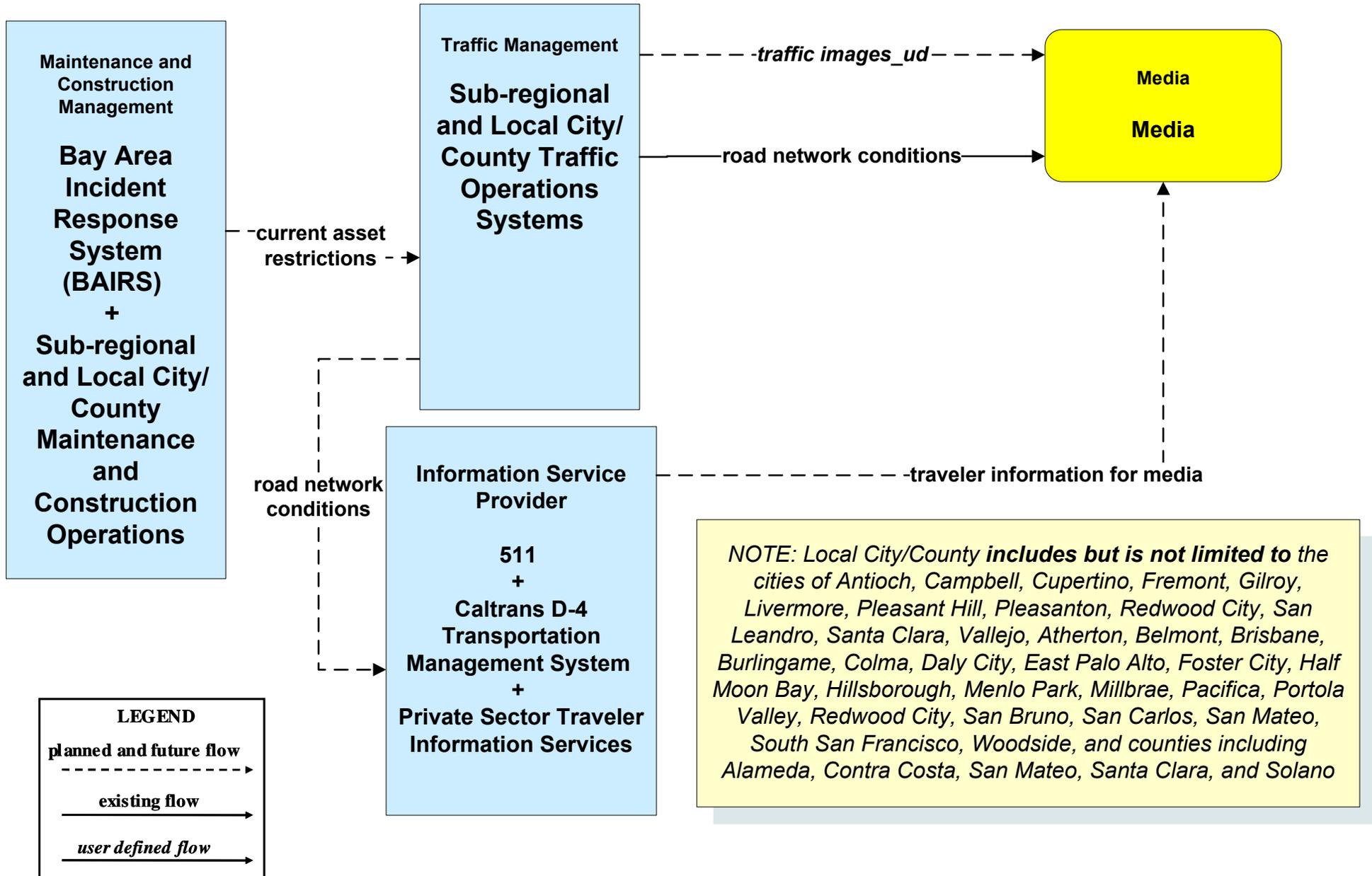


ATMS06 - Traffic Information Dissemination SR 4 East ATMS

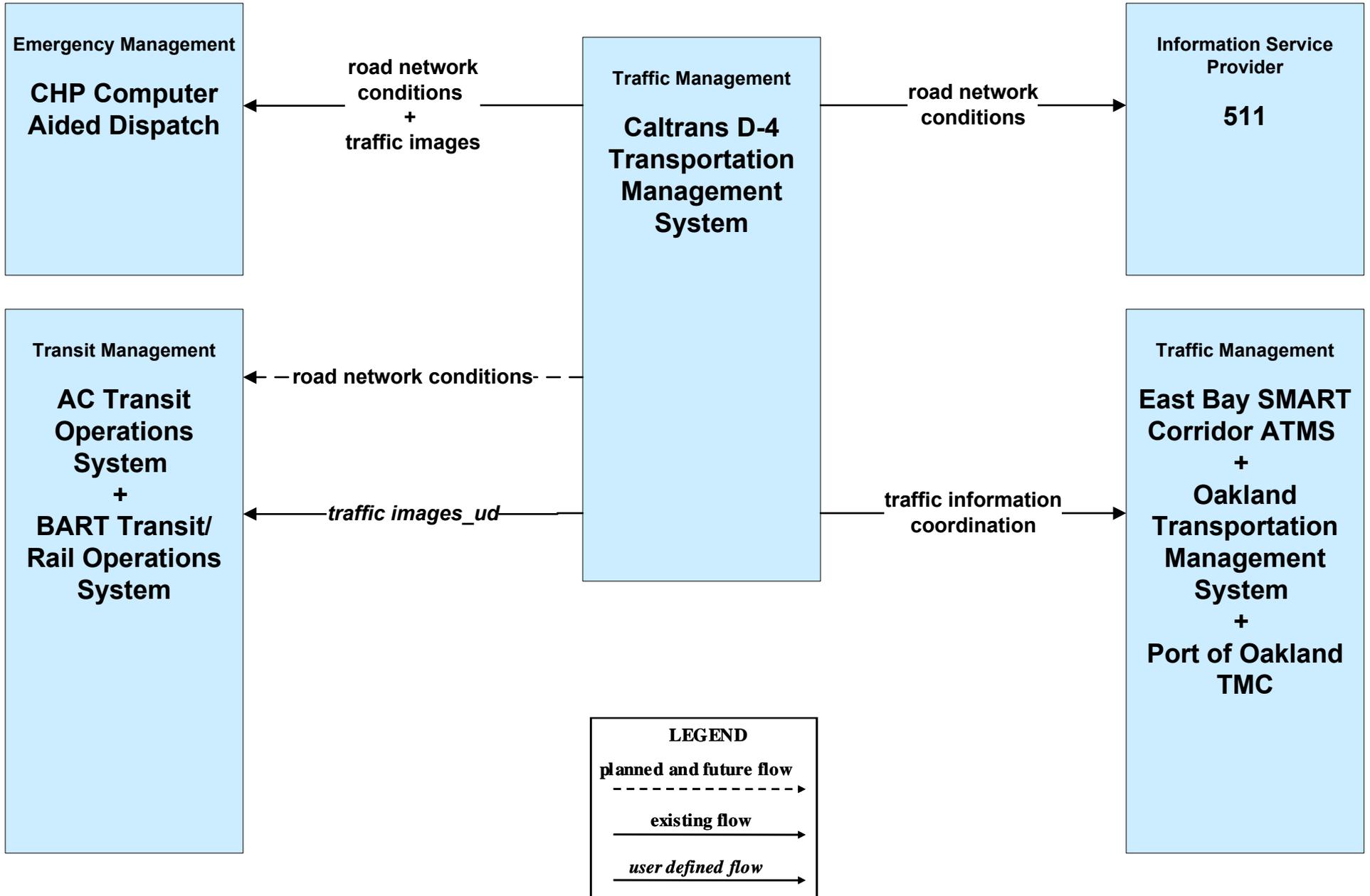


ATMS06 - Traffic Information Dissemination

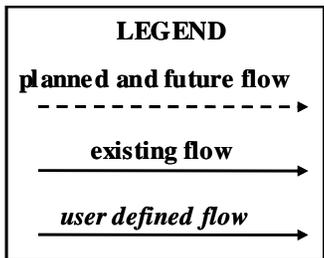
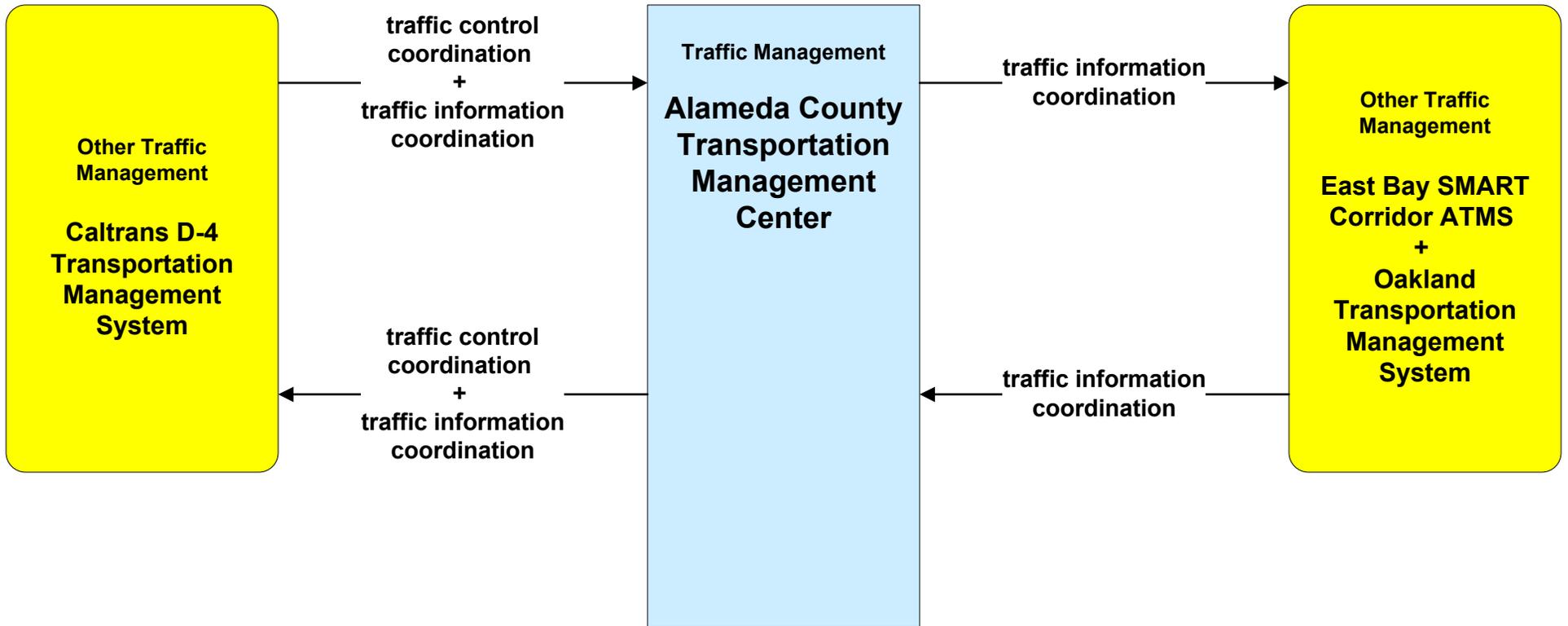
Local City/County Traffic Operations (2 of 2)



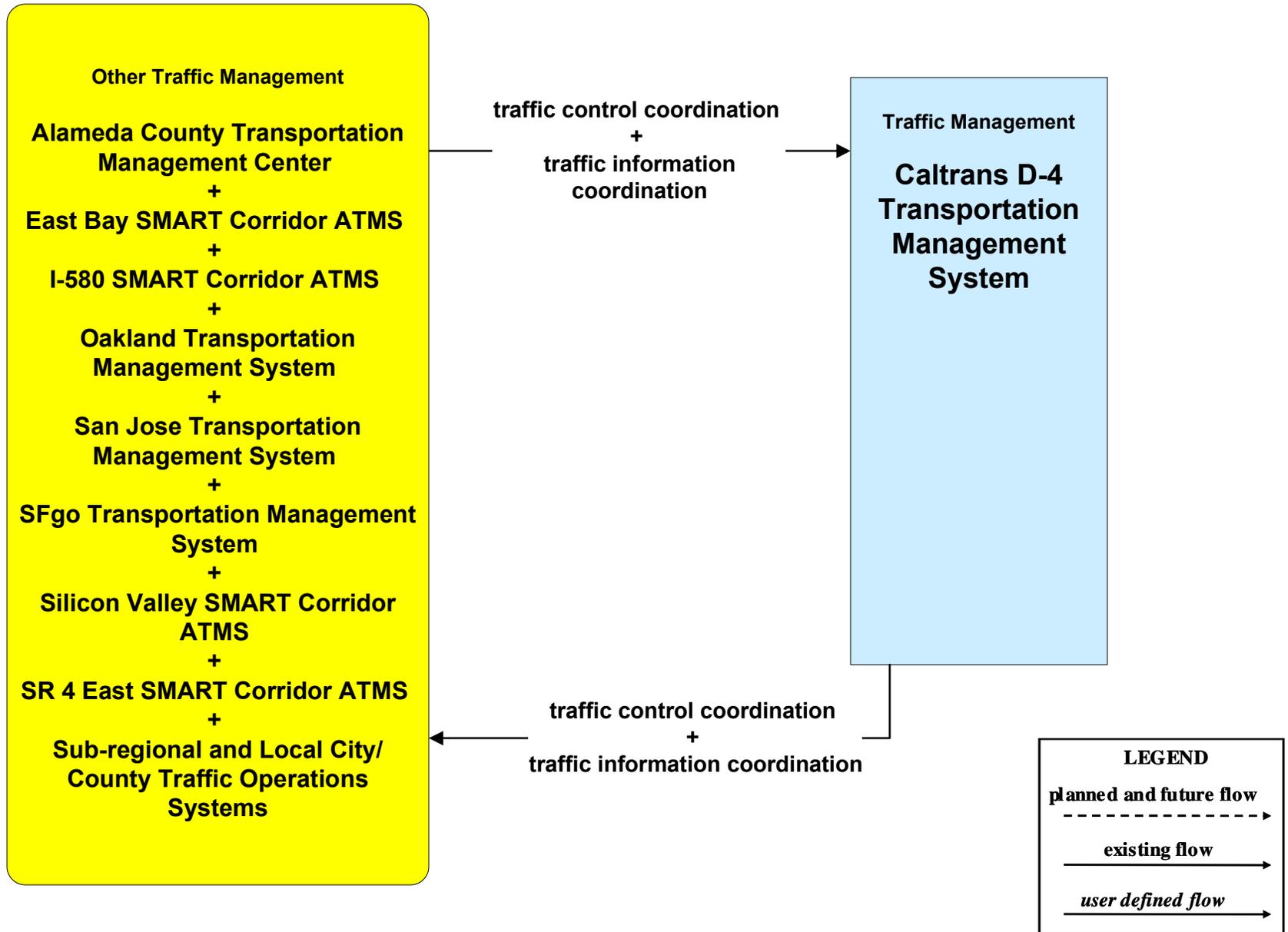
**ATMS06 - Traffic Information Dissemination
Caltrans- ICM**



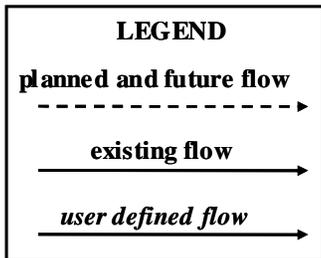
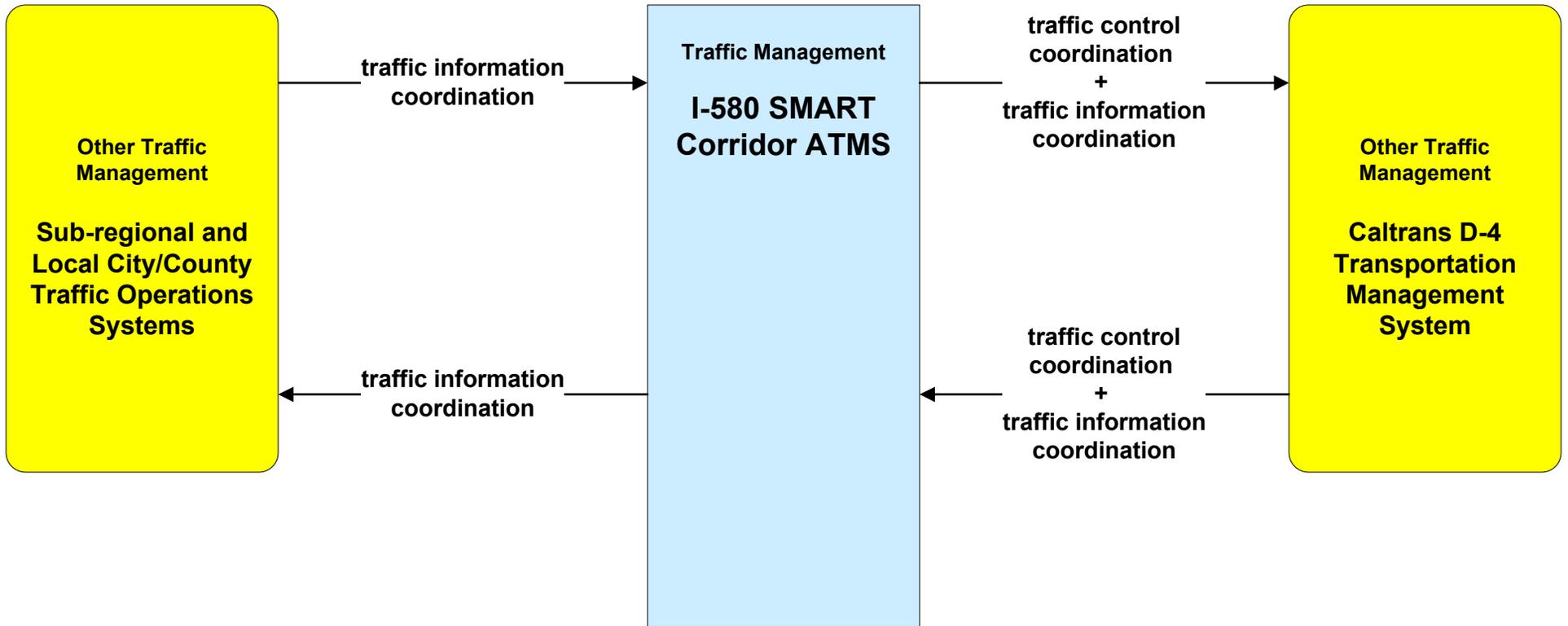
**ATMS07 - Regional Traffic Management
Alameda County TMC**



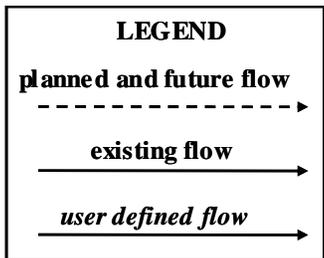
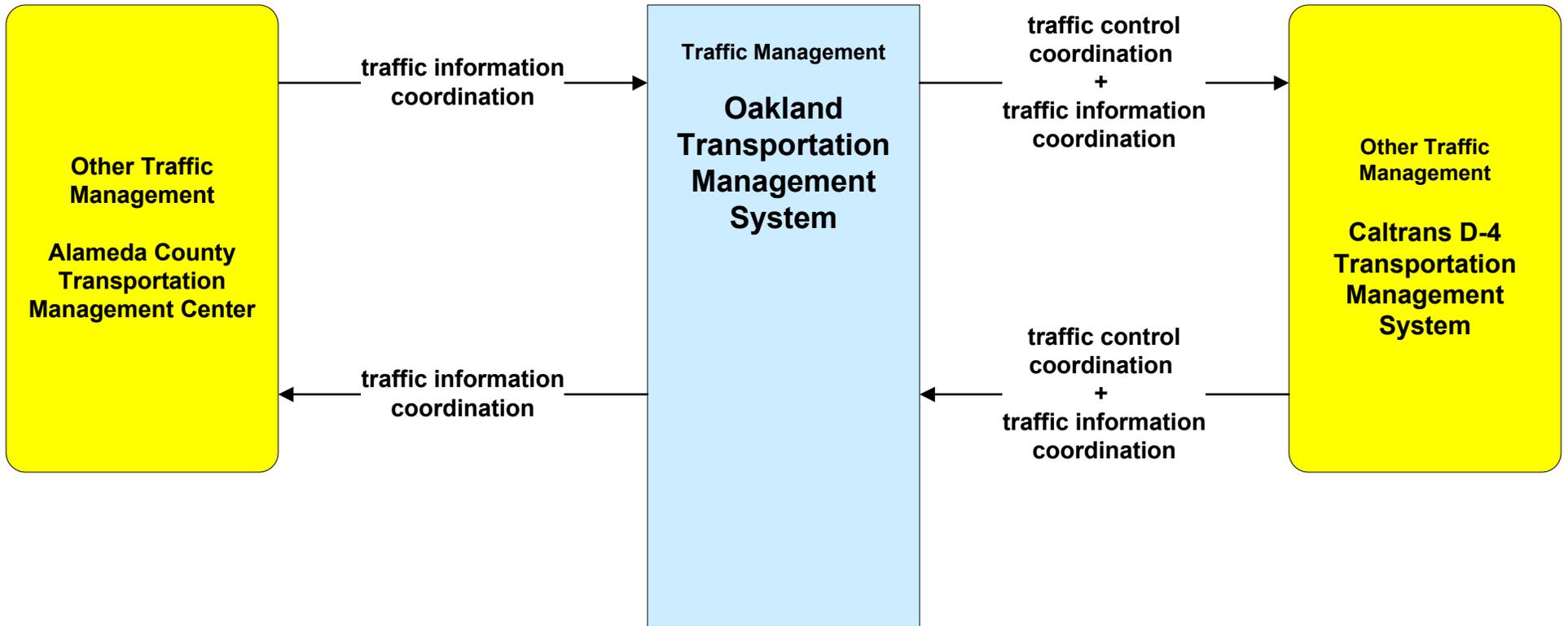
**ATMS07 - Regional Traffic Management
Caltrans D-4**



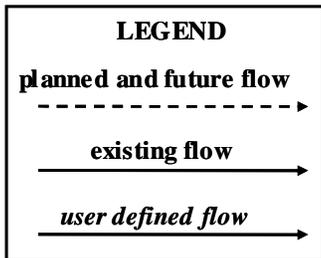
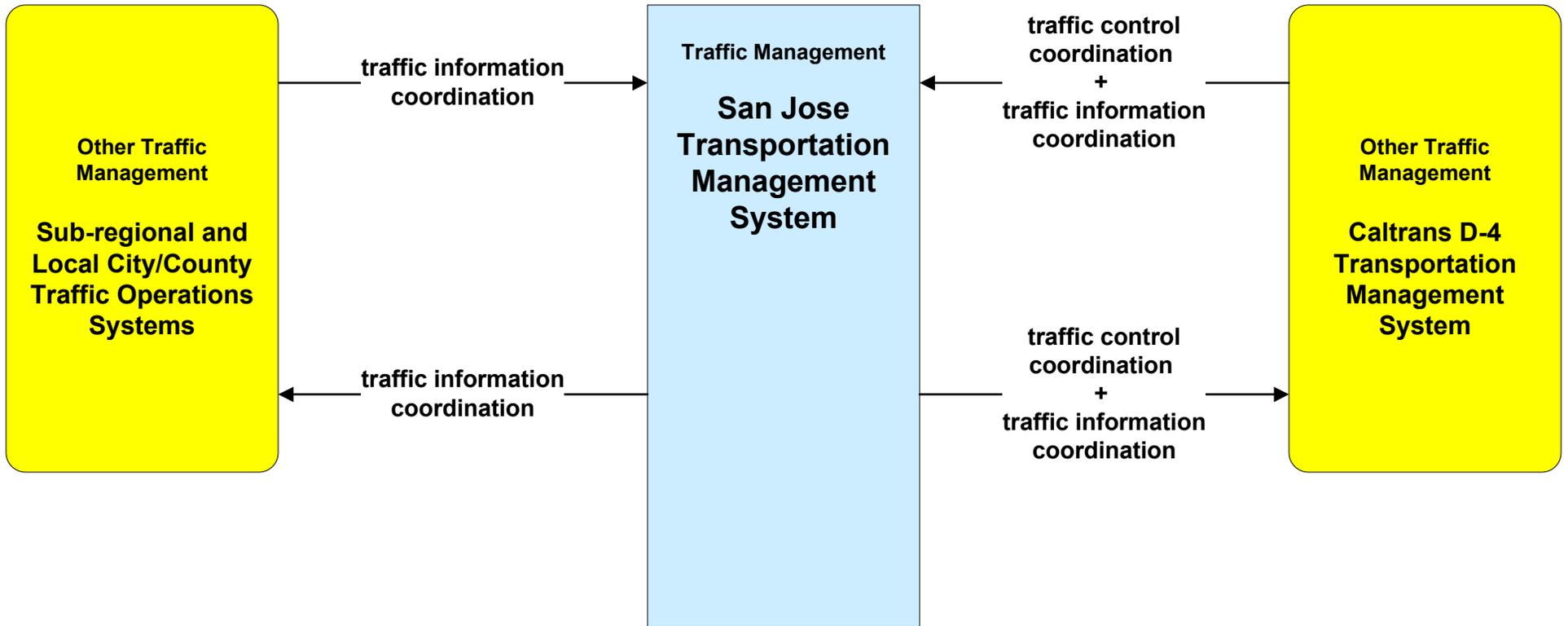
**ATMS07 - Regional Traffic Management
I-580 Smart Corridor ATMS**



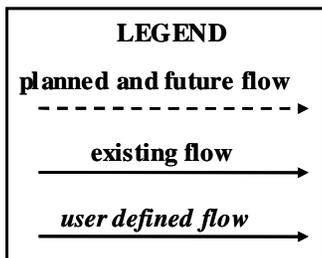
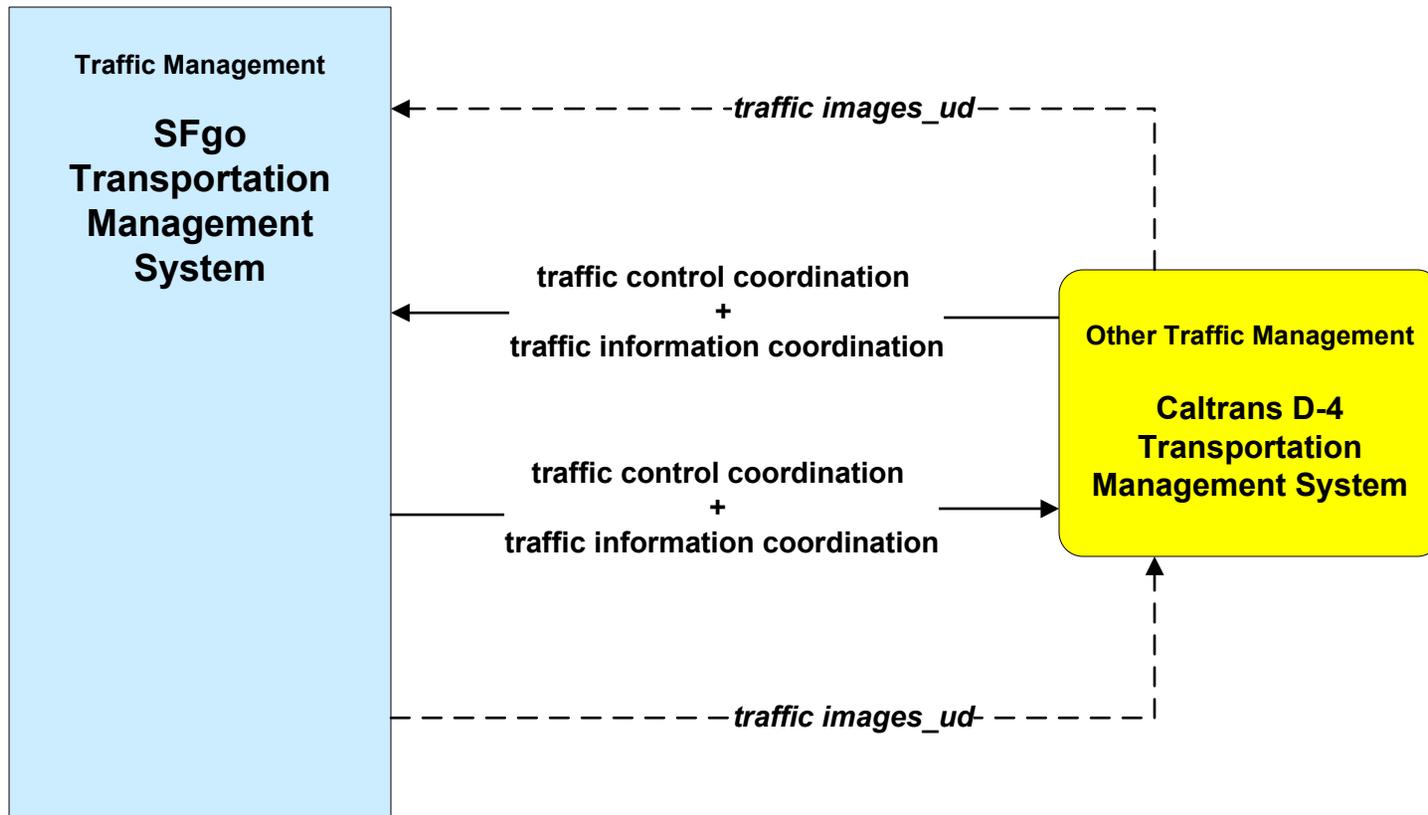
**ATMS07 - Regional Traffic Management
Oakland TMS**



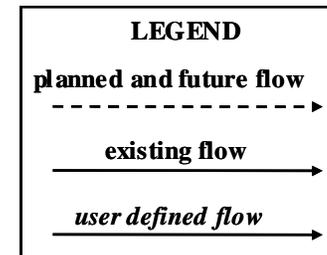
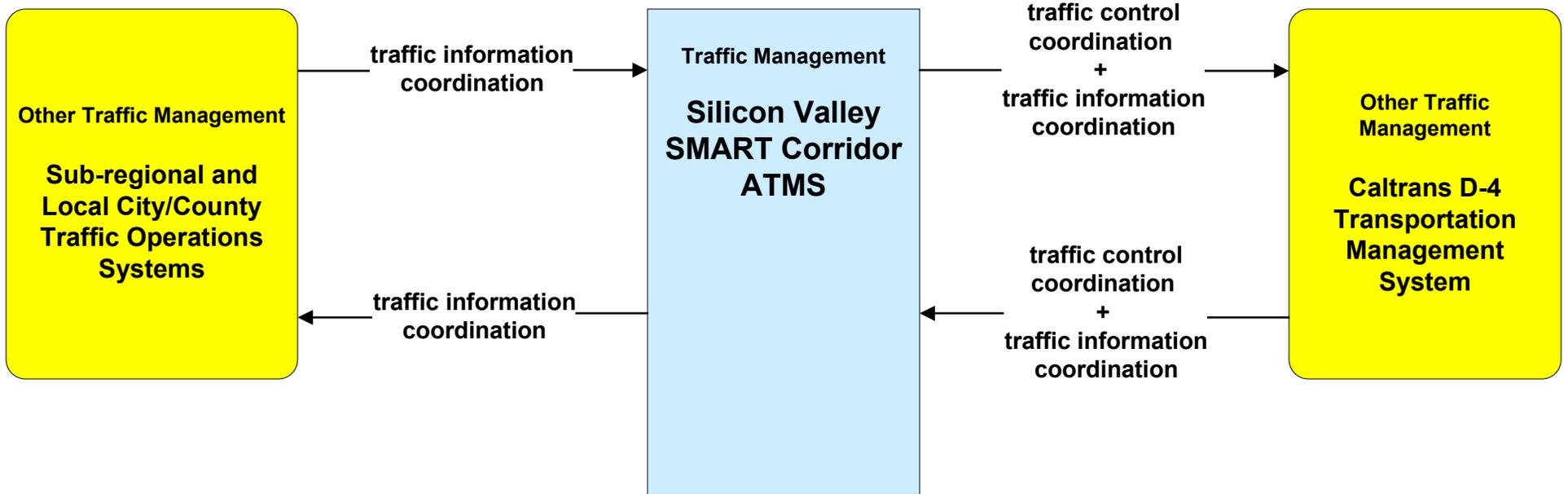
**ATMS07 - Regional Traffic Management
San Jose TMS**



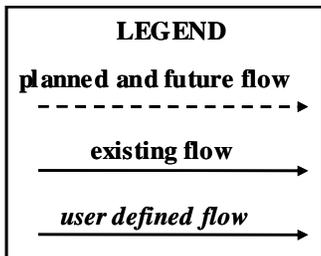
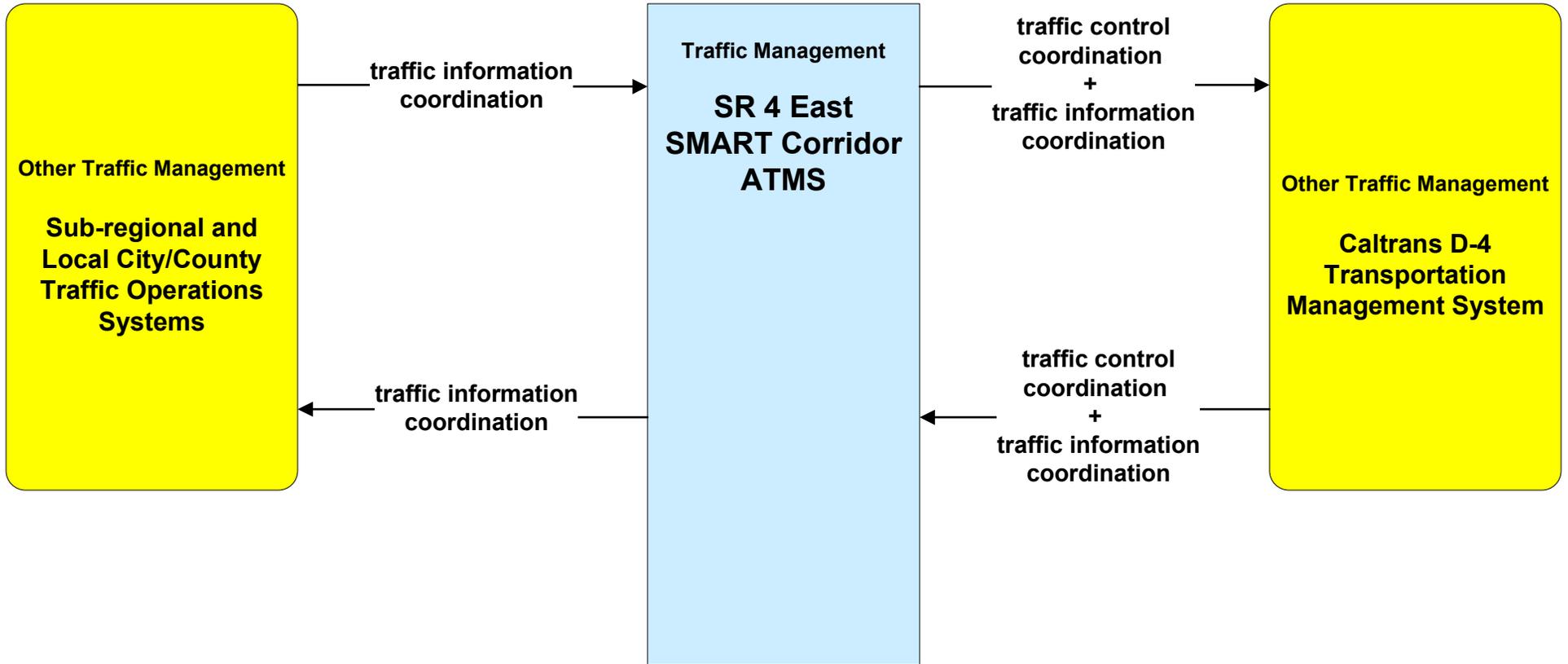
ATMS07 - Regional Traffic Management SFgo



**ATMS07 - Regional Traffic Management
Silicon Valley Smart Corridor**

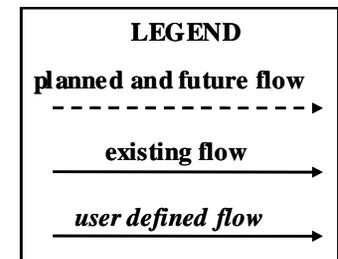
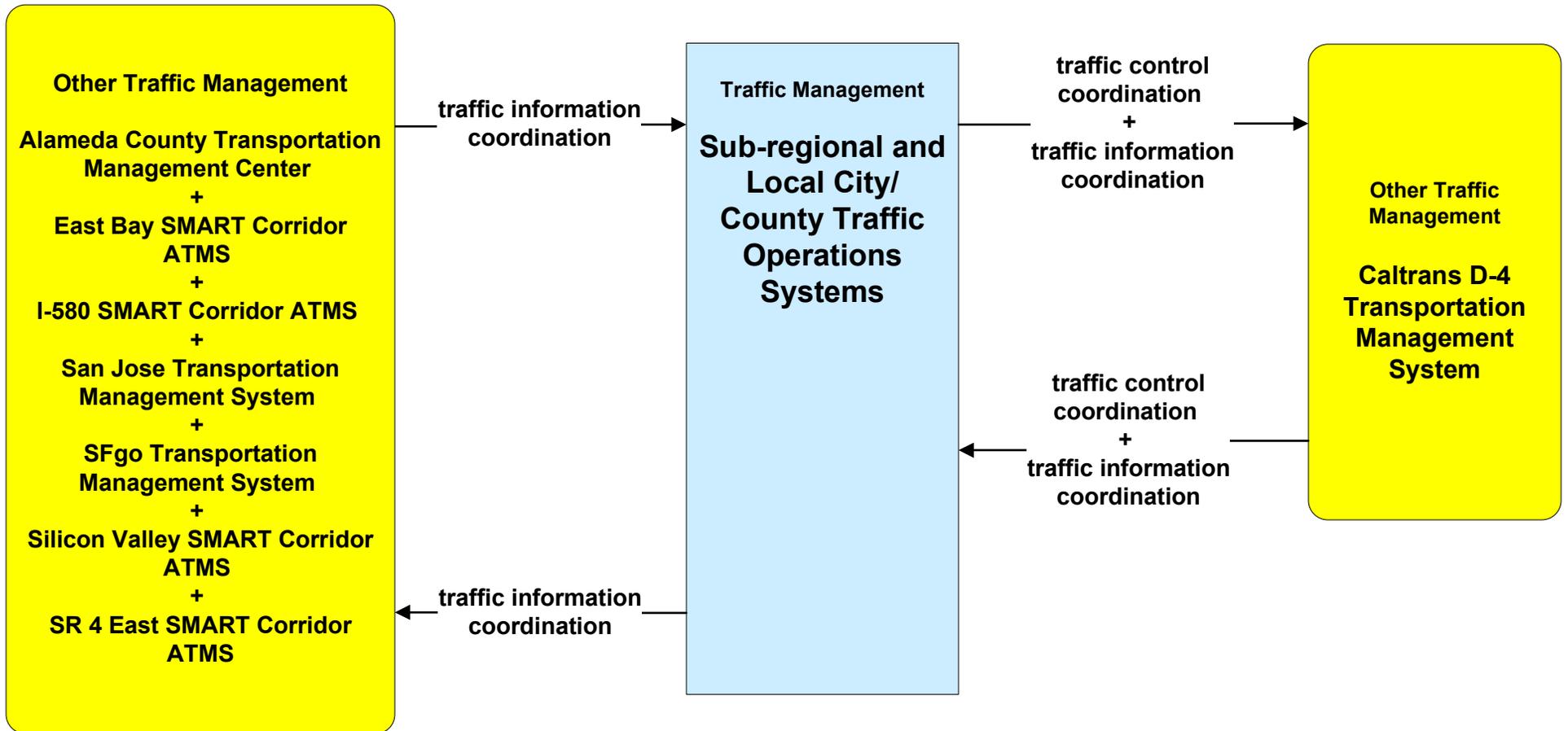


**ATMS07 - Regional Traffic Management
SR 4 East SMART Corridor**

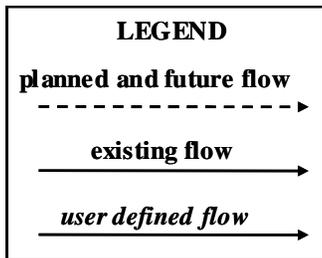
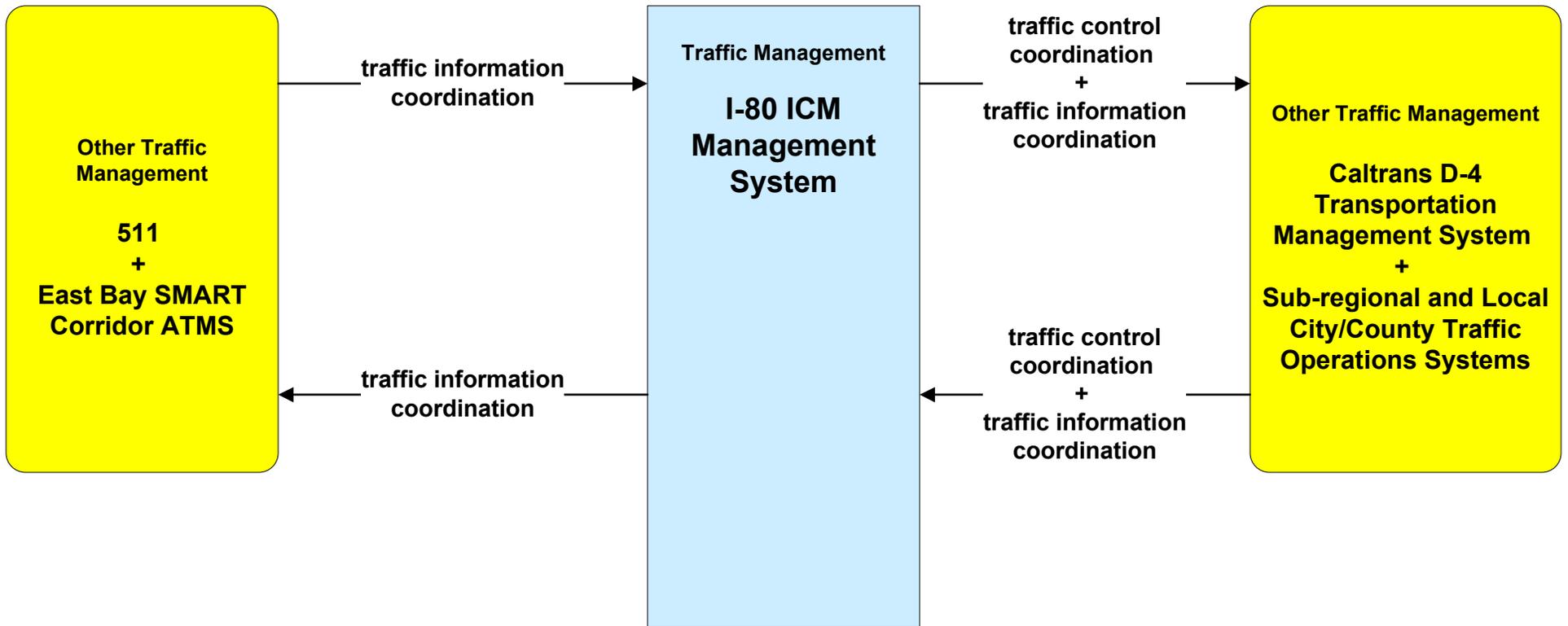


ATMS07 - Regional Traffic Management

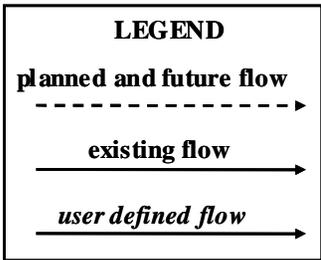
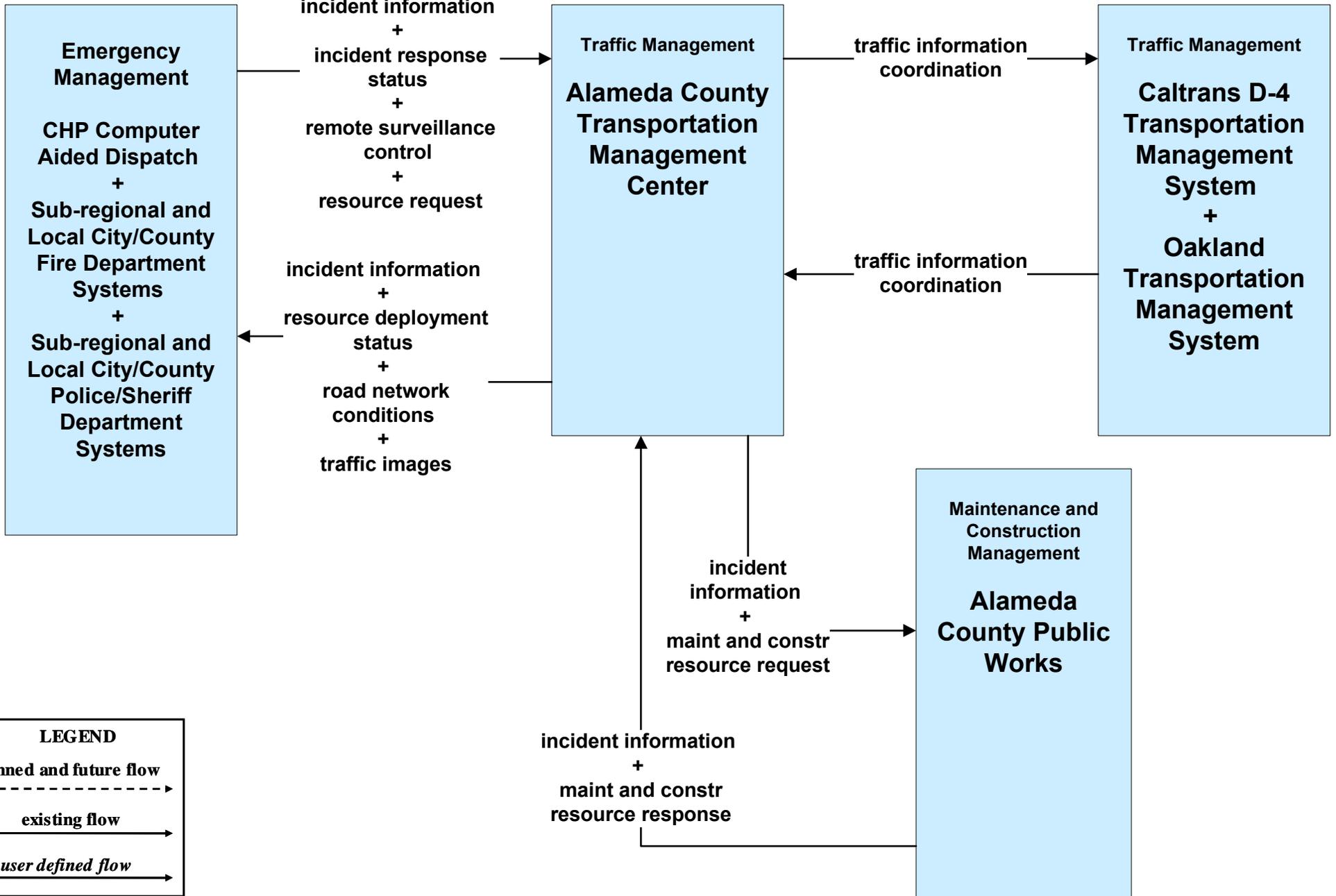
Sub-regional and Local City/County Traffic Operations



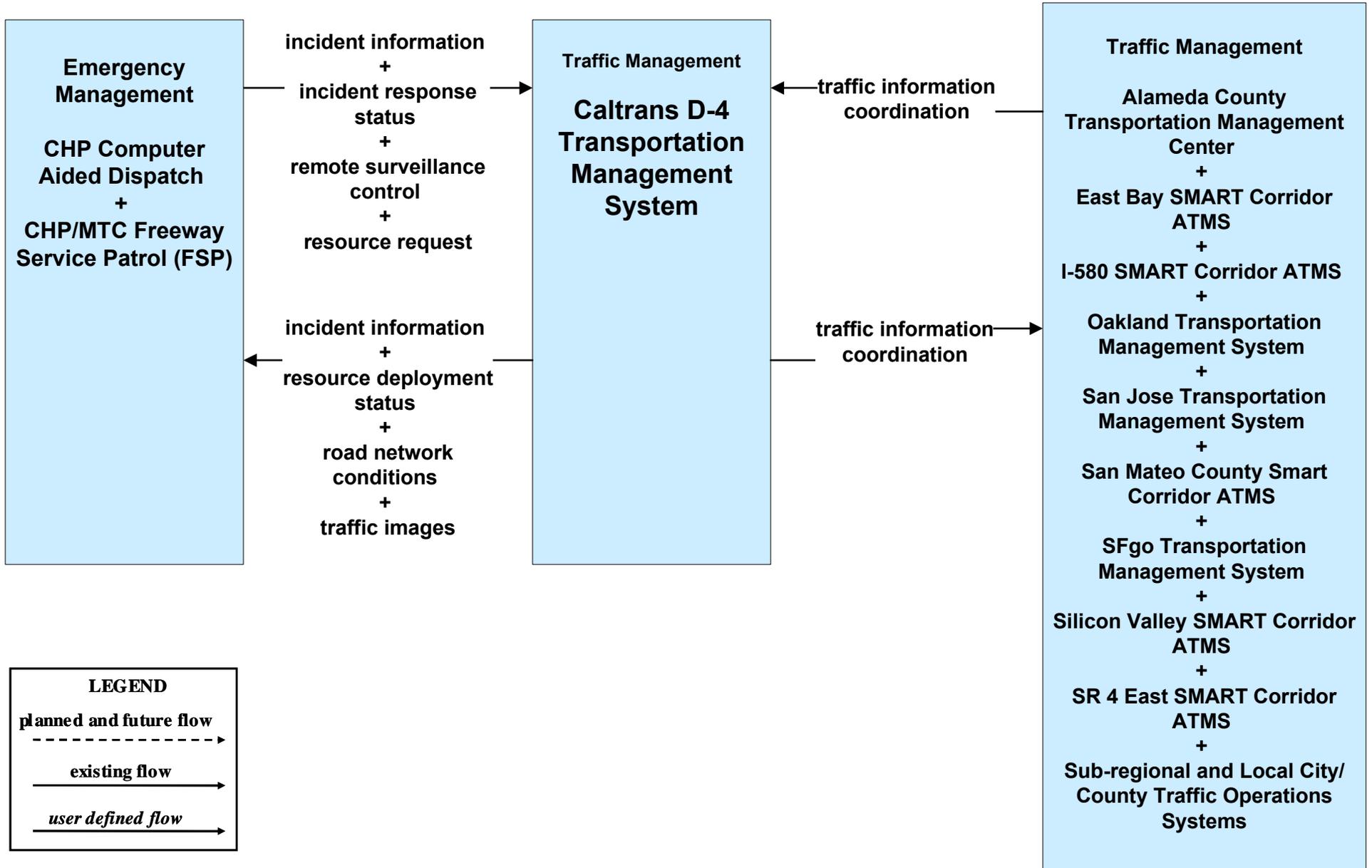
**ATMS07 - Regional Traffic Management
I-80 ICM Management Center**



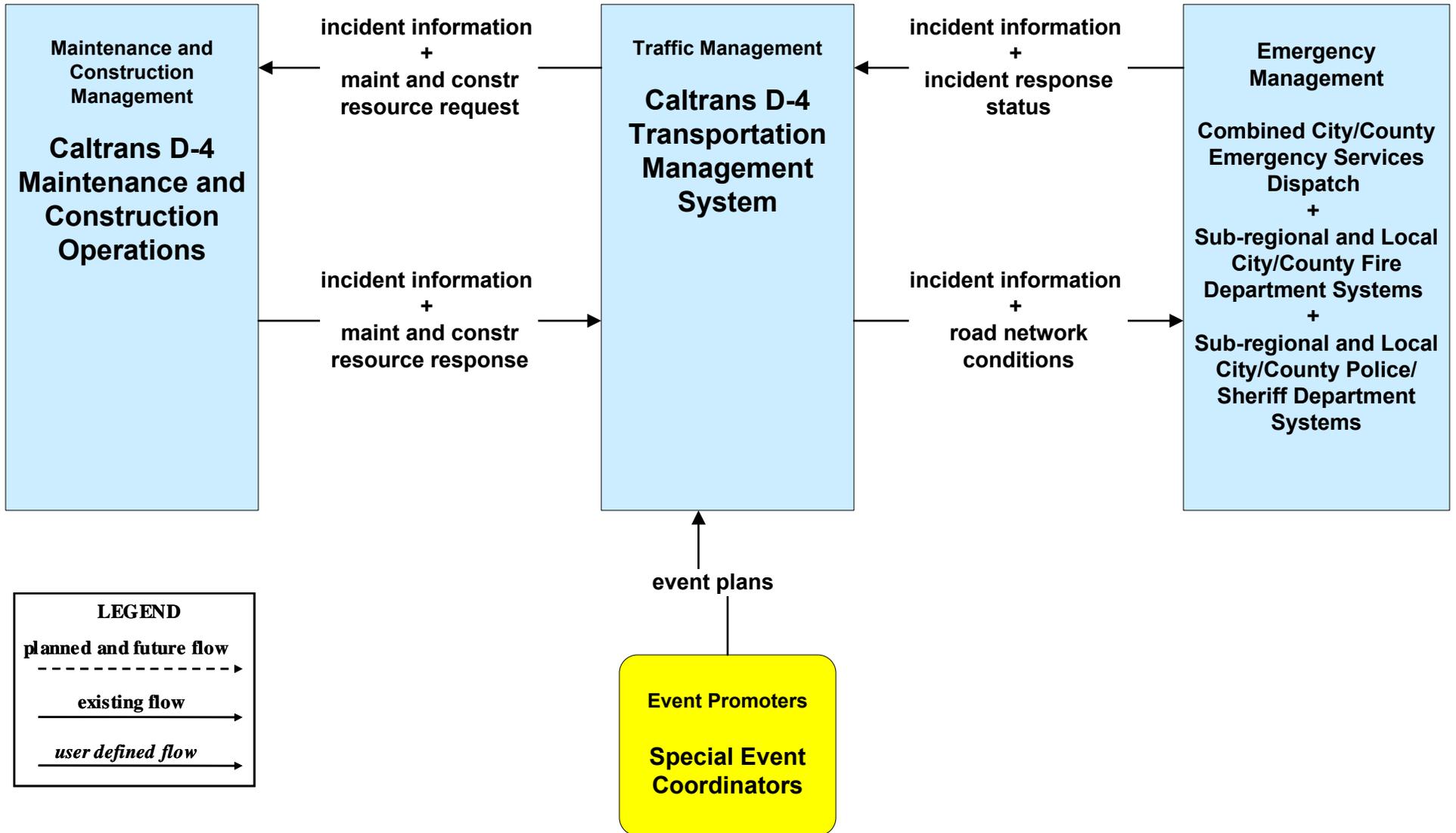
ATMS08 - Incident Management Alameda County TMC



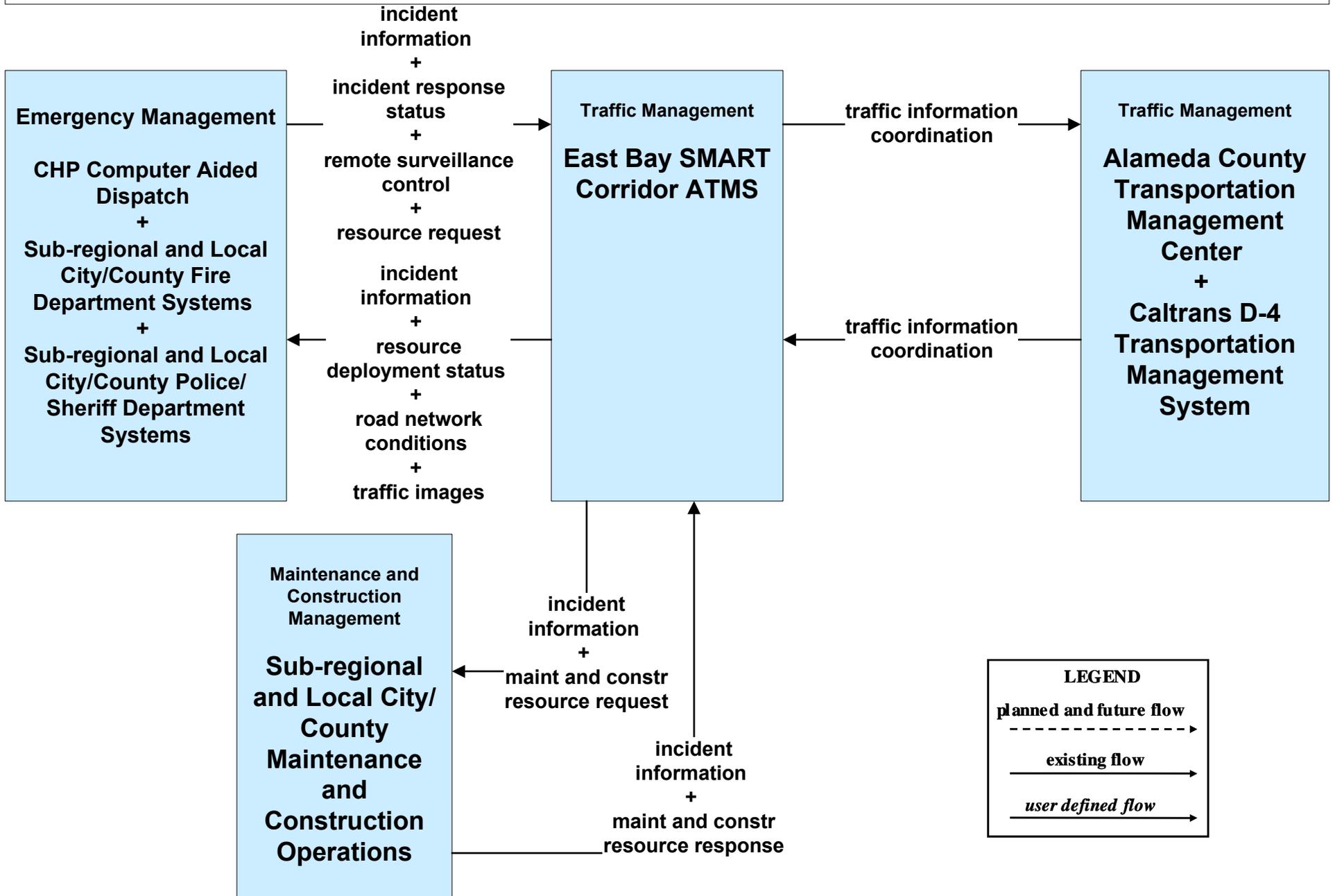
ATMS08 - Incident Management Caltrans D-4 (TM) (1 of 2)



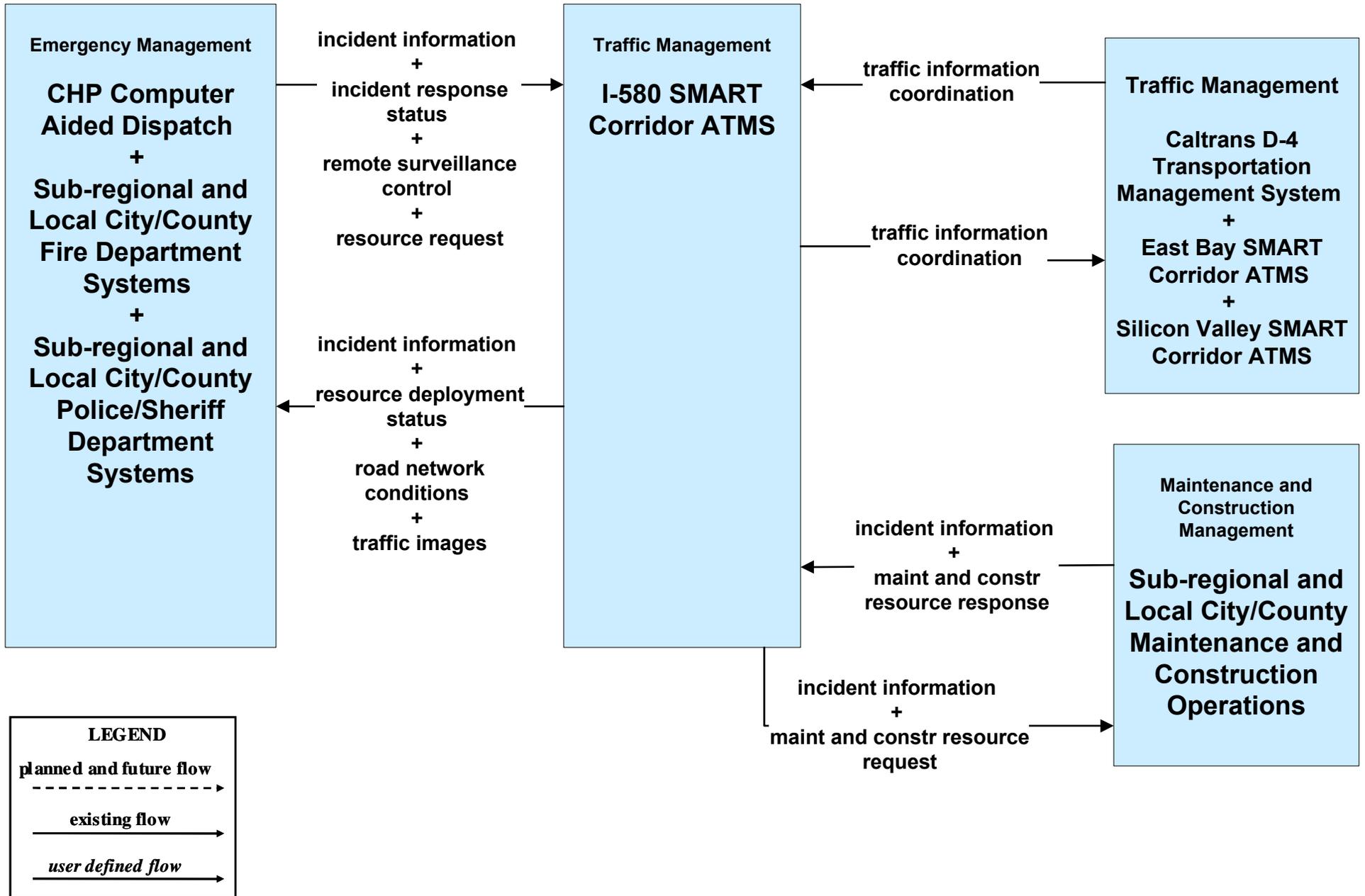
ATMS08 - Incident Management Caltrans D-4 (TM) (2 of 2)



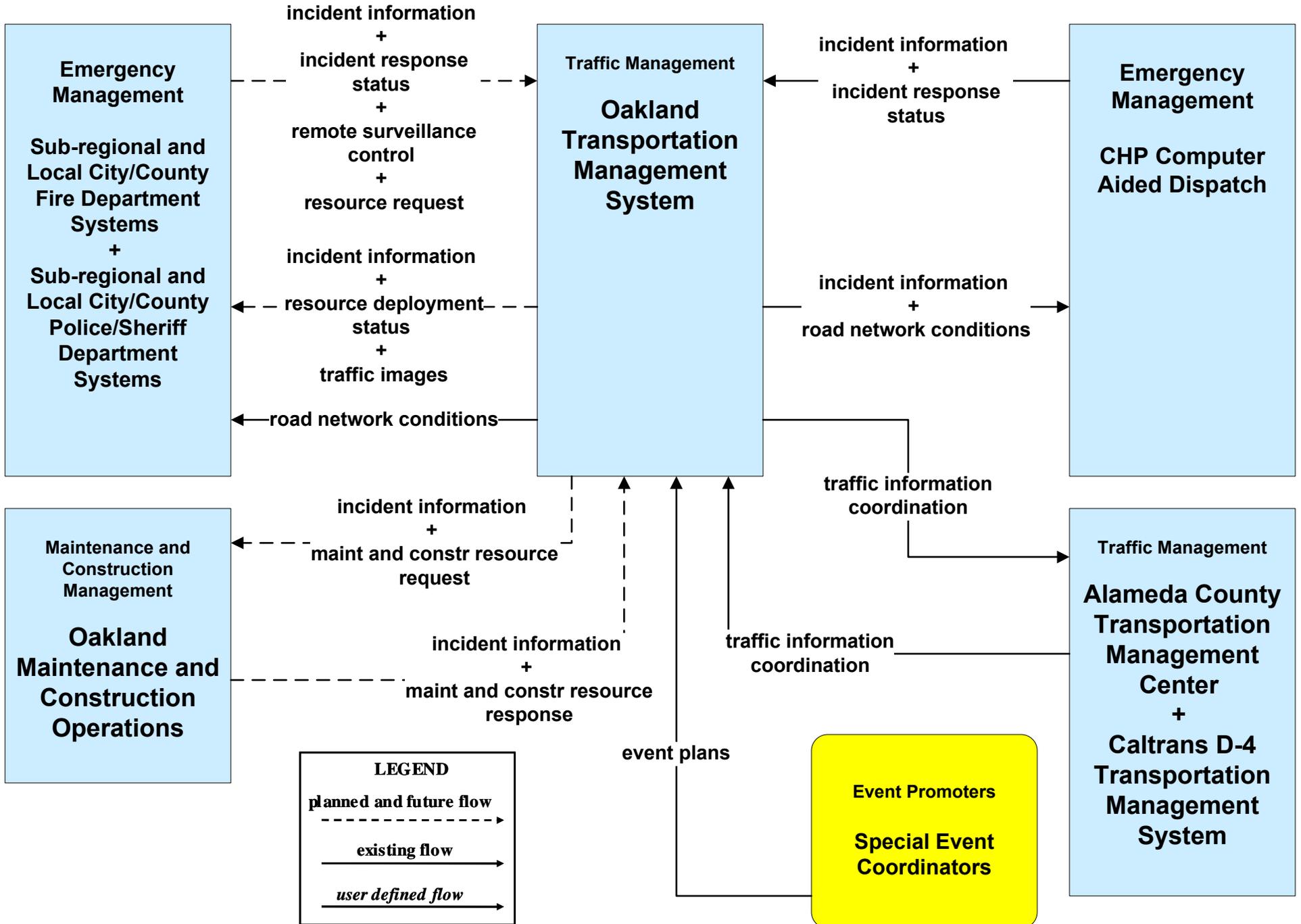
ATMS08 - Incident Management East Bay ATMS



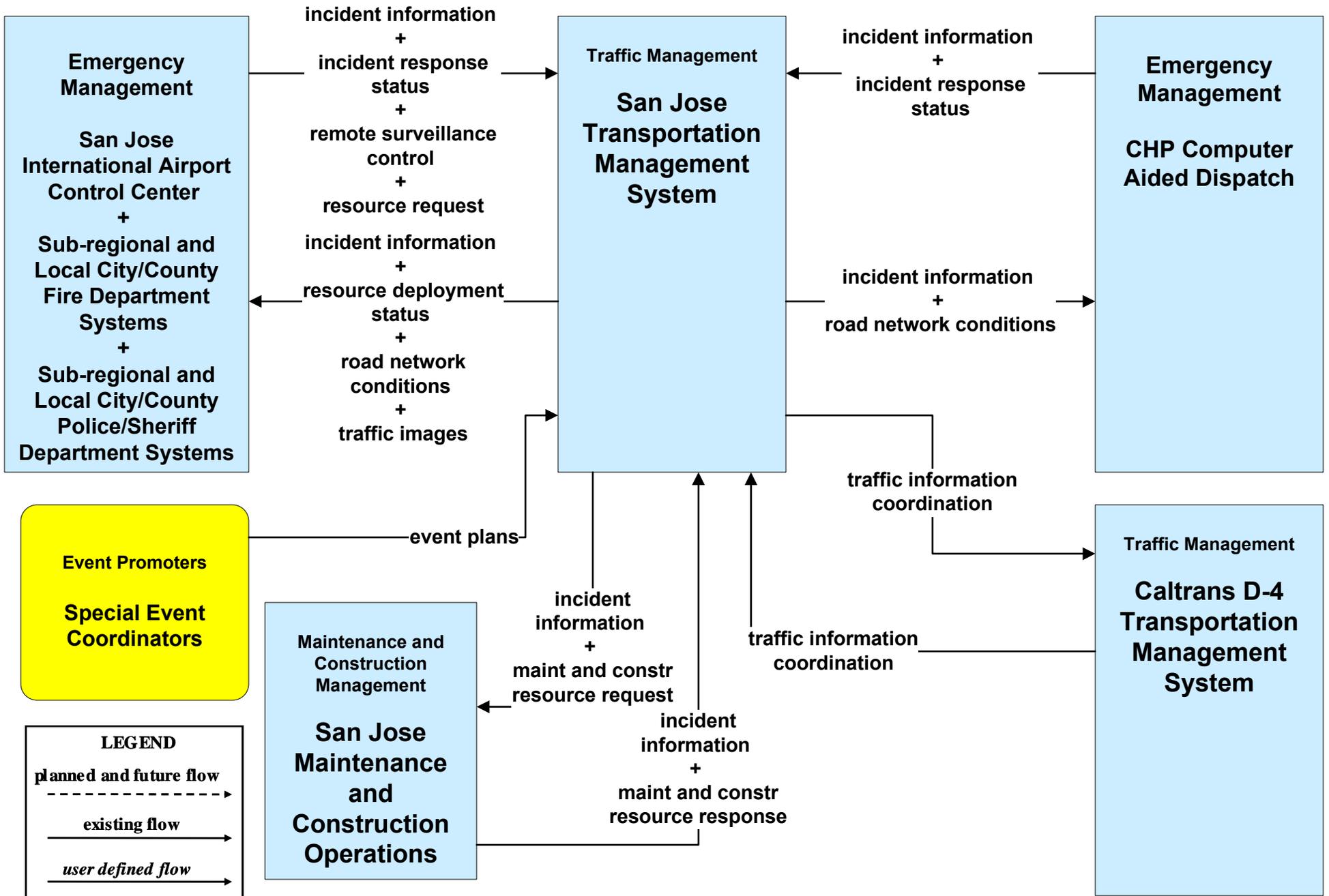
ATMS08 - Incident Management I-580 Smart Corridor



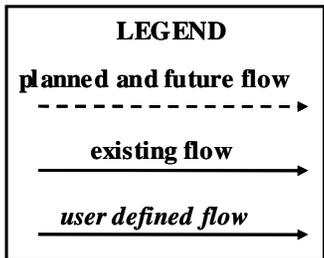
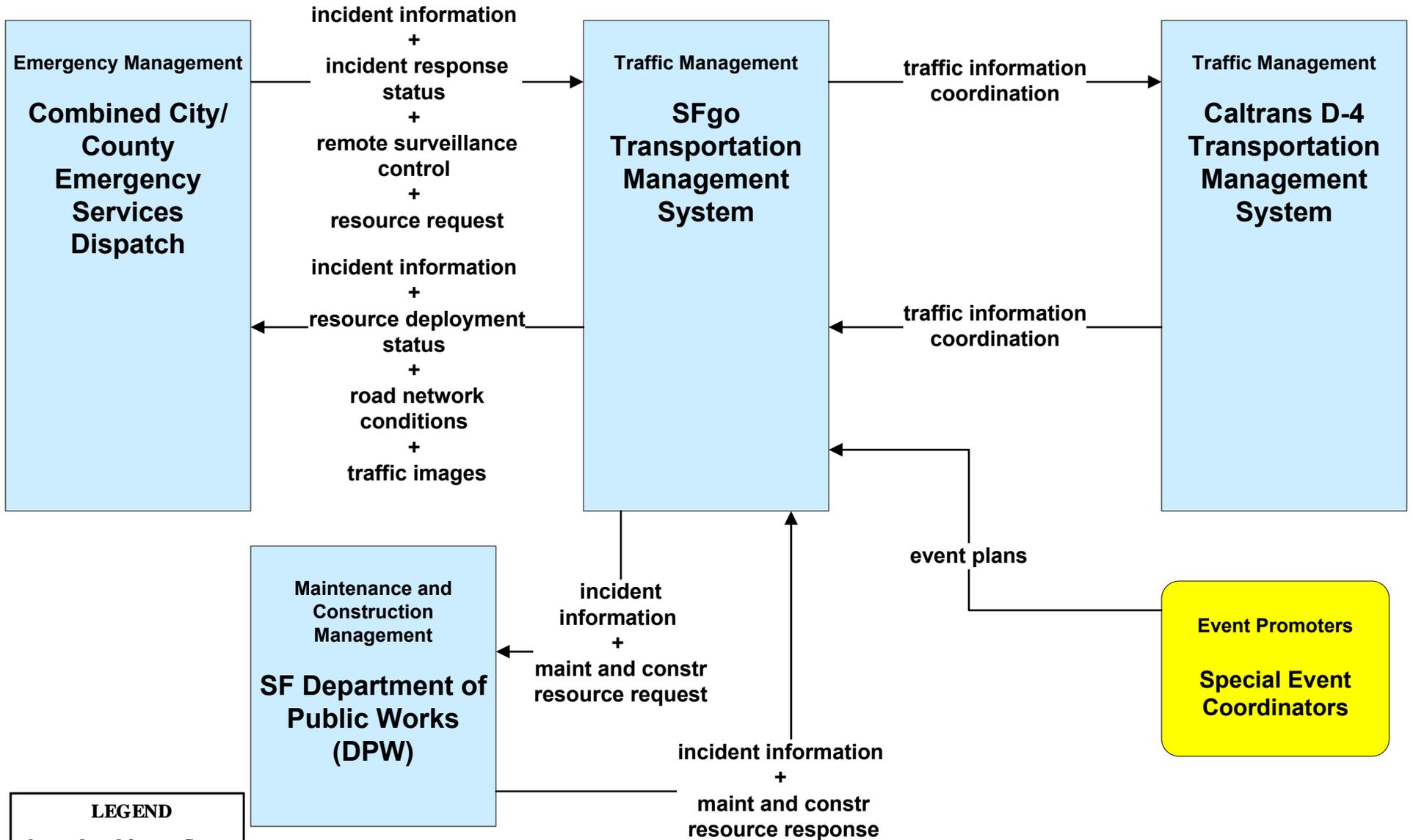
ATMS08 - Incident Management Oakland TMS (TM)



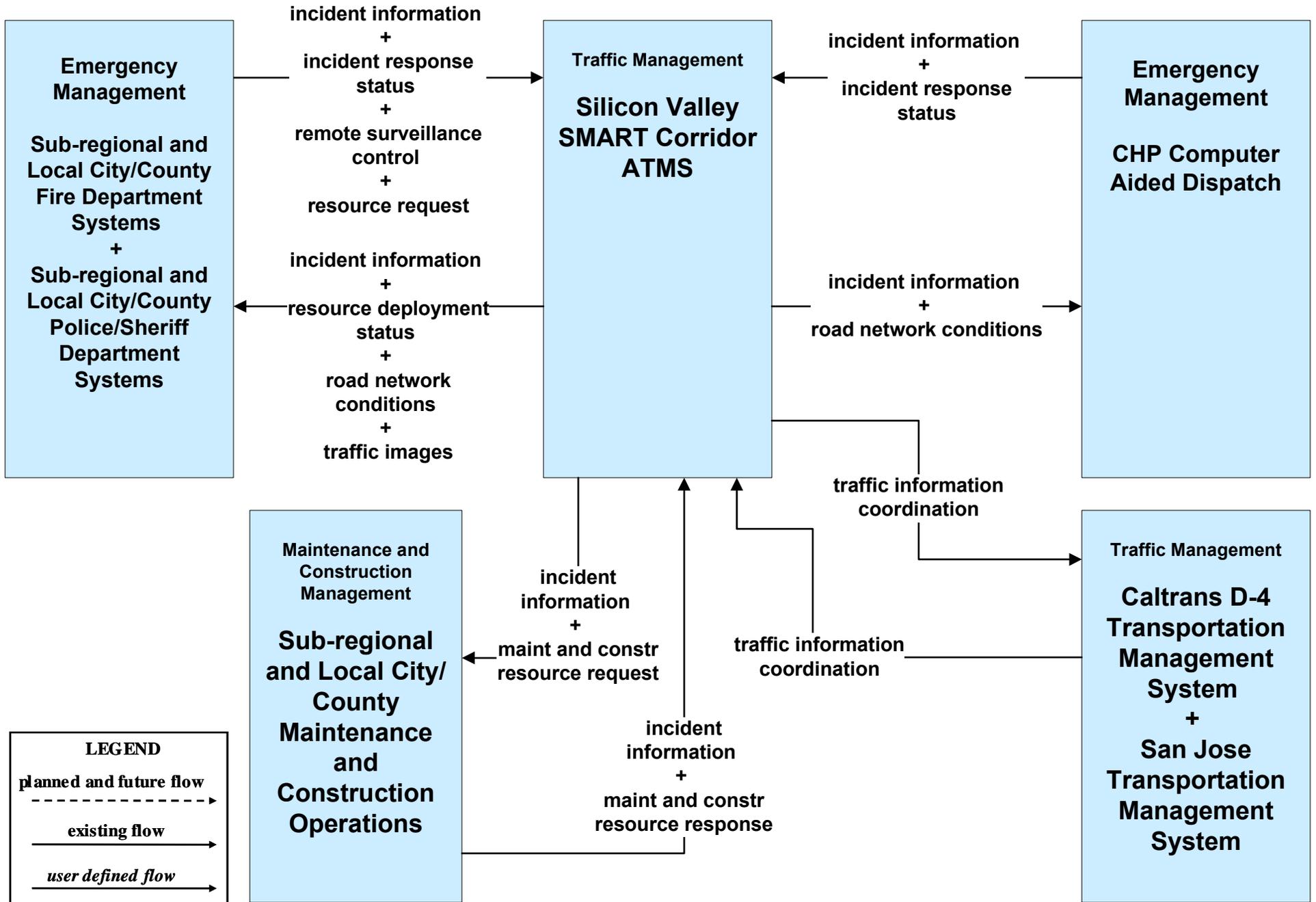
ATMS08 - Incident Management San Jose TMS (TM)



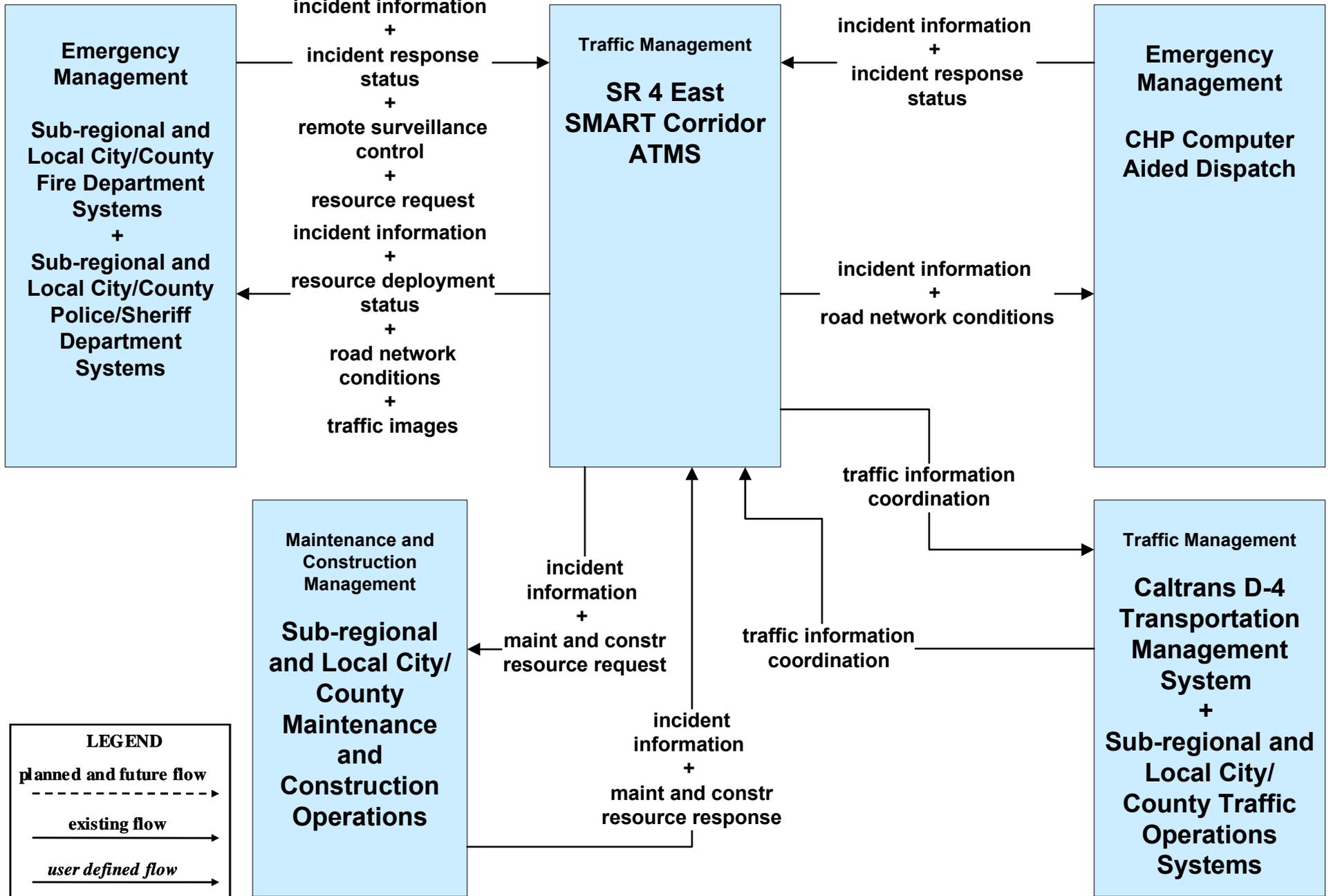
ATMS08 - Incident Management SFgo TMS (TM)



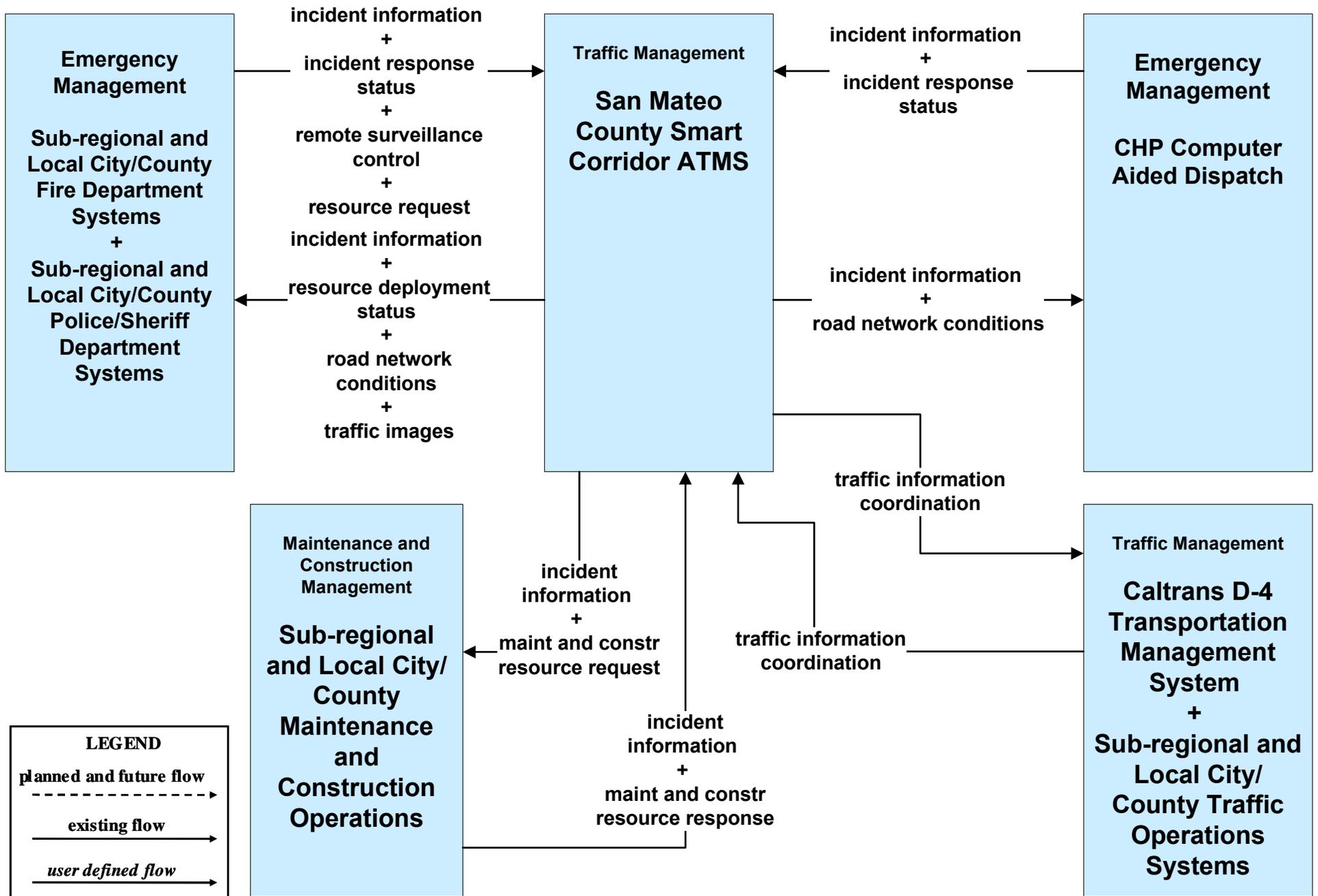
ATMS08 - Incident Management Silicon Valley ATMS (TM)



ATMS08 - Incident Management SR 4 ATMS (TM)

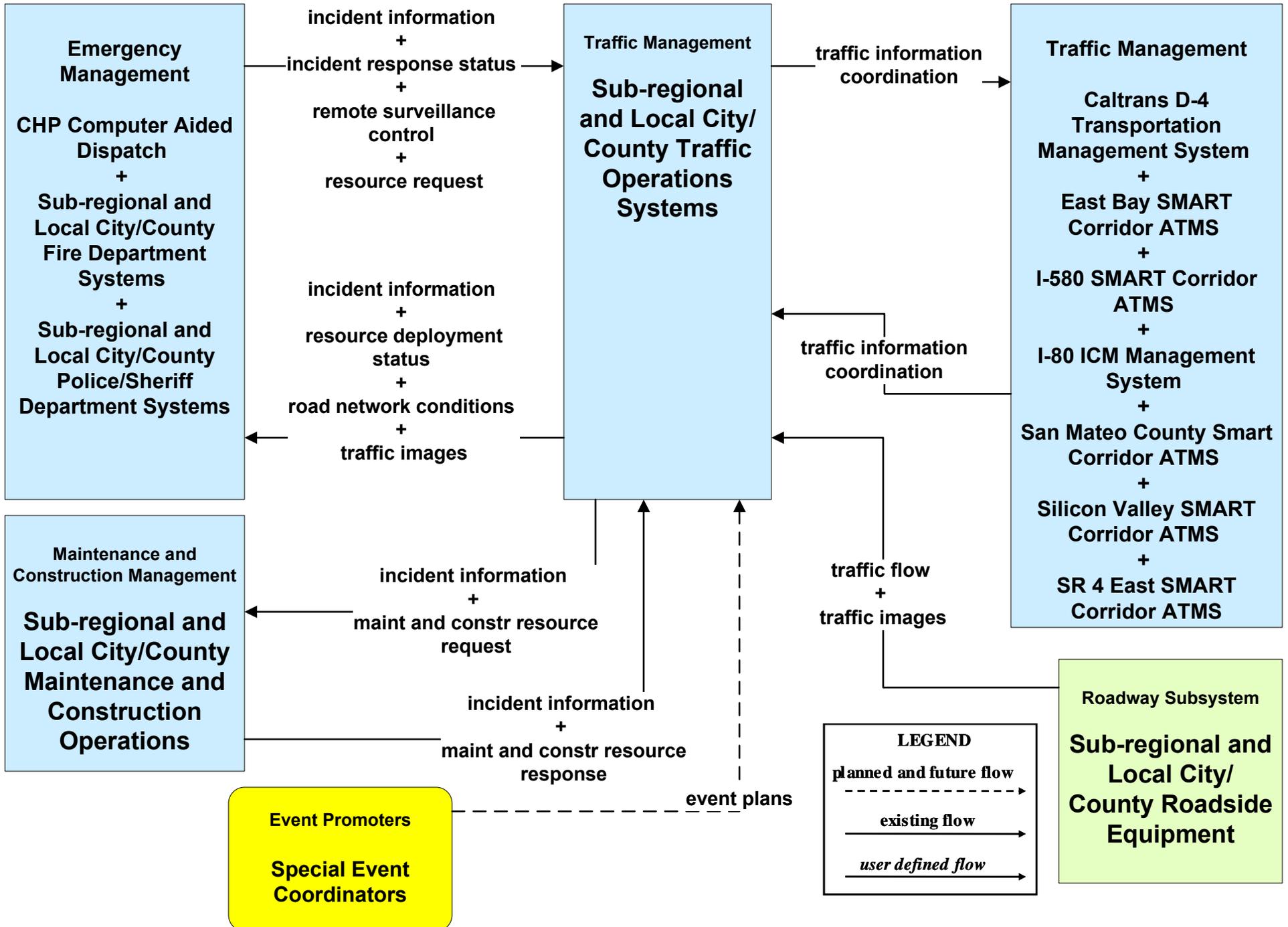


ATMS08 - Incident Management San Mateo County Smart Corridor

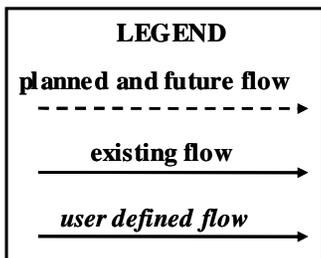
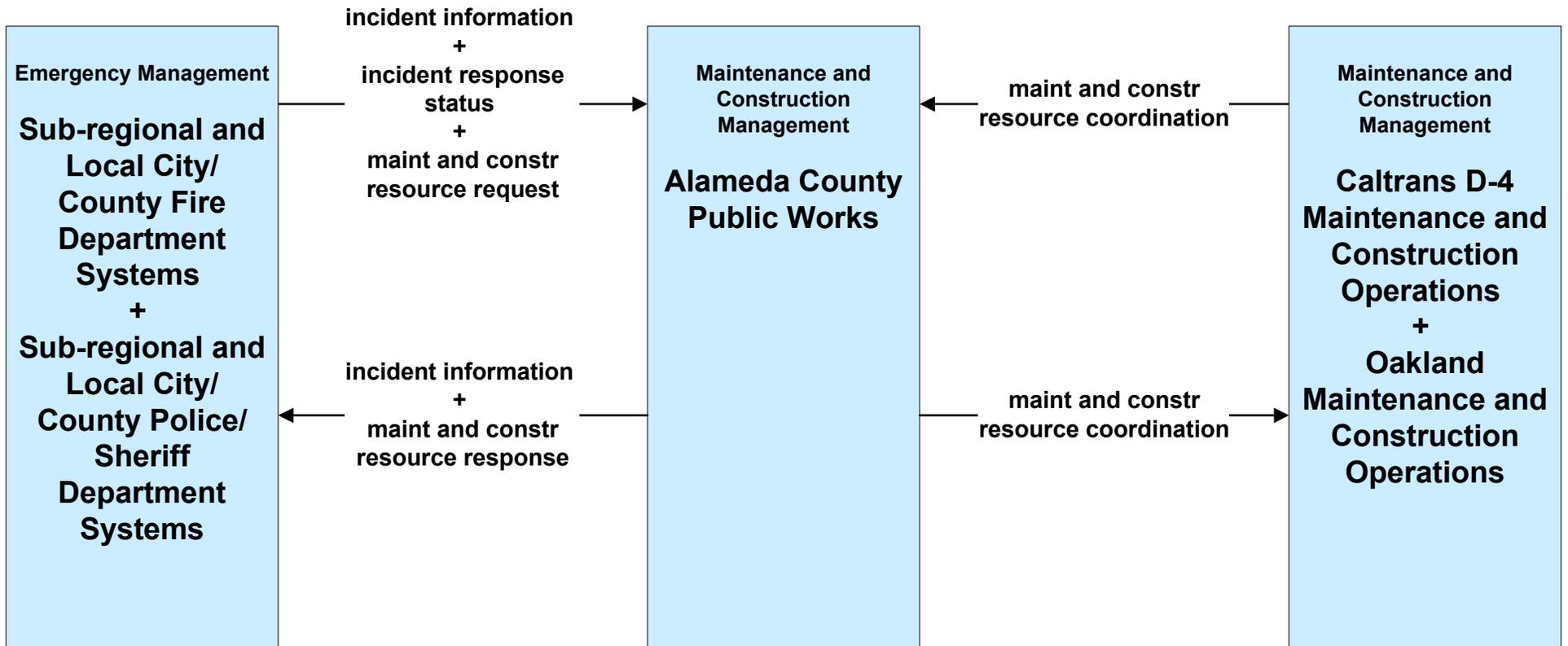


ATMS08 - Incident Management

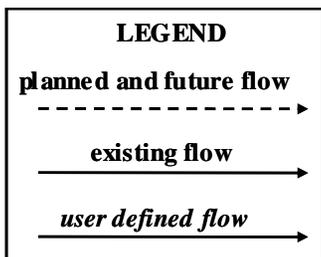
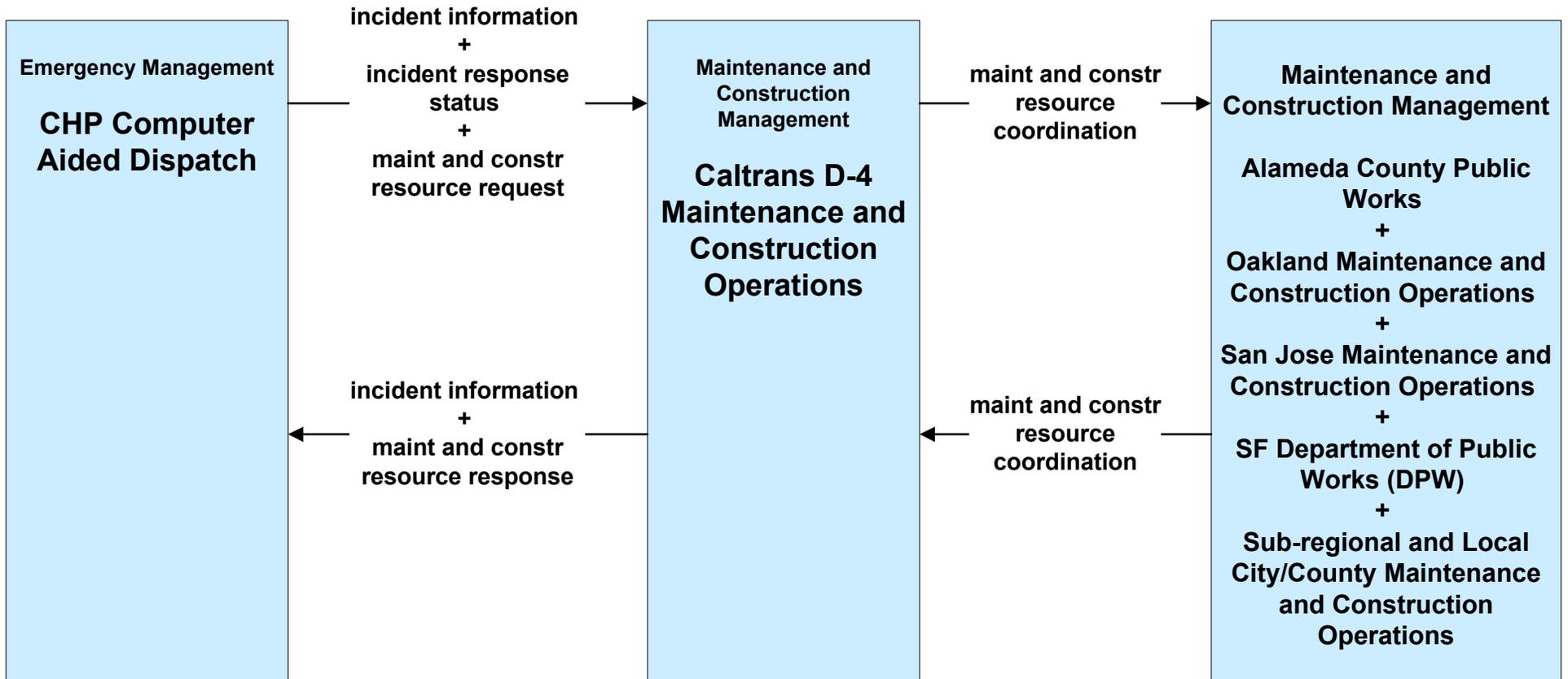
Local City/County Traffic Operations (TM)



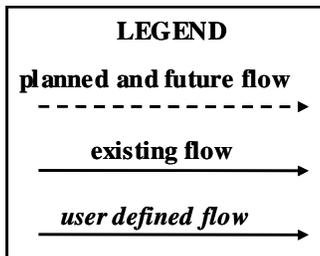
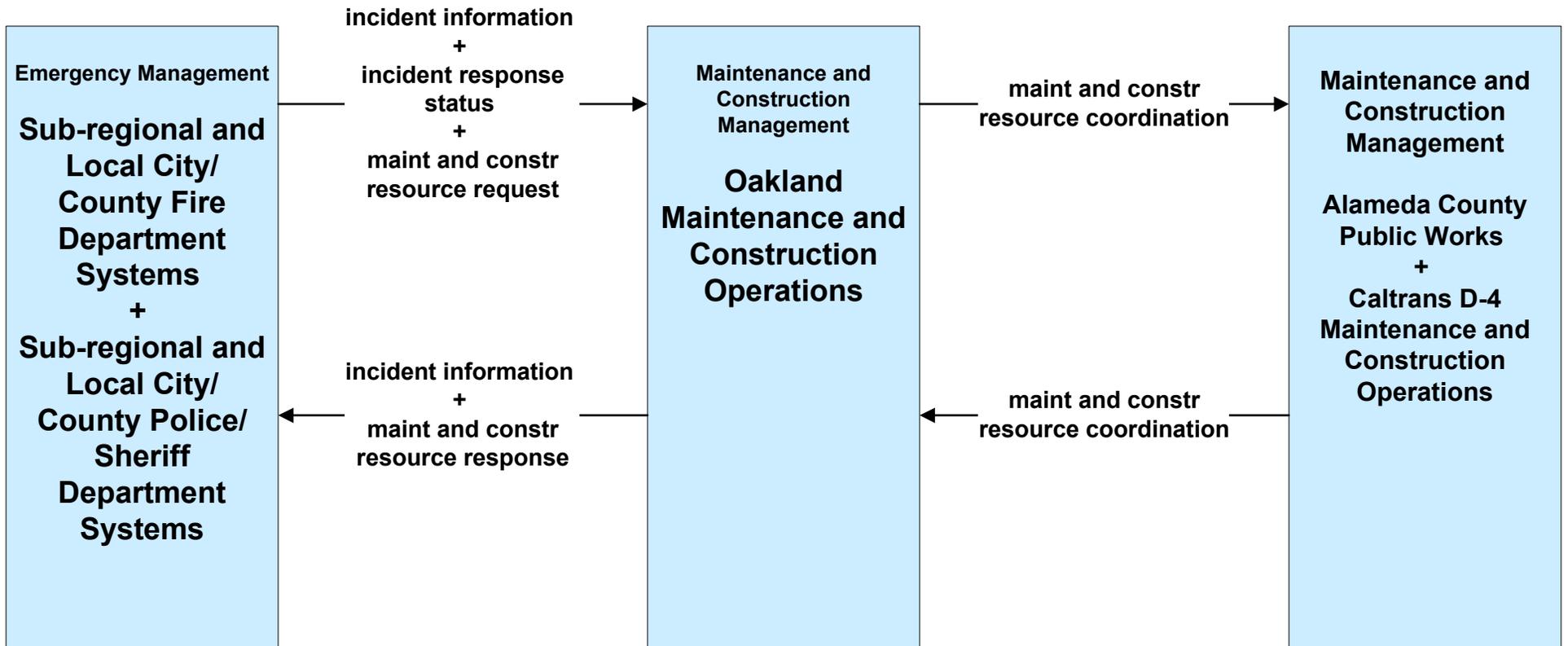
**ATMS08 - Incident Management
Alameda County (EM to MCM)**



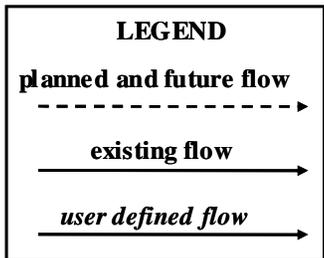
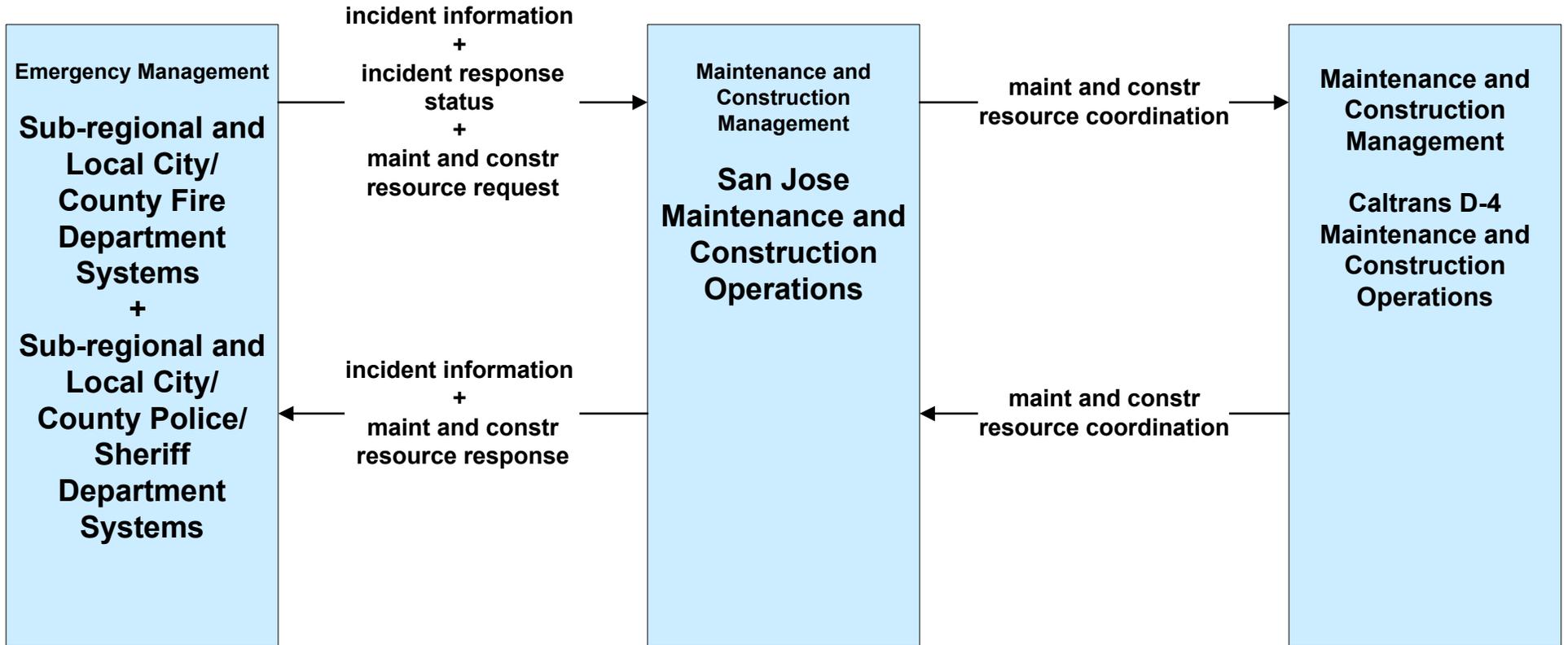
**ATMS08 - Incident Management
Caltrans D-4 Maintenance**



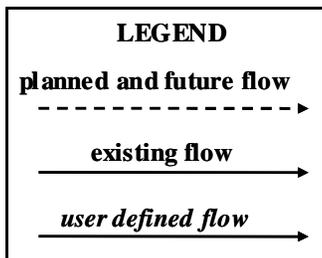
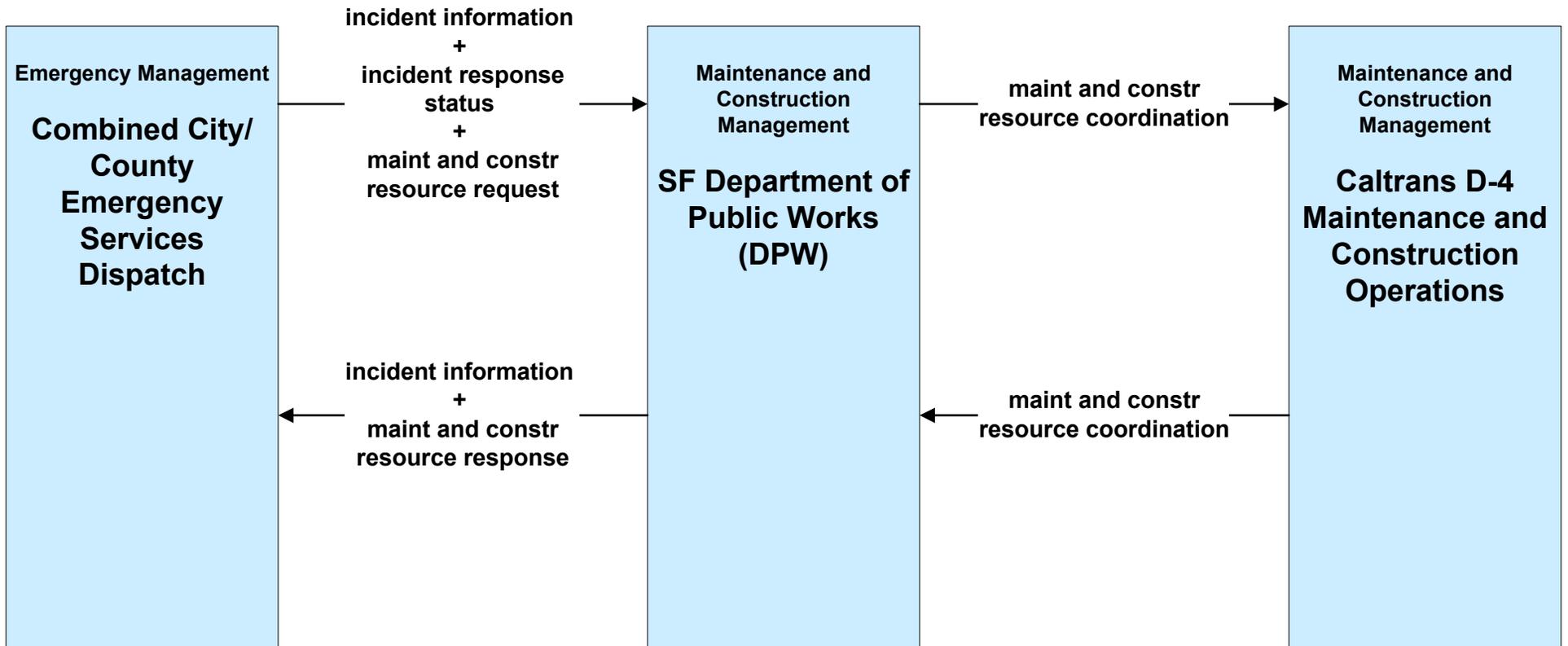
ATMS08 - Incident Management Oakland Maintenance



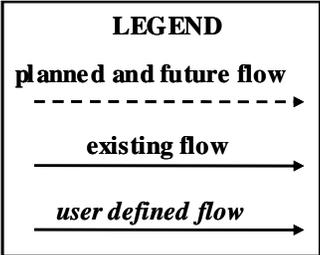
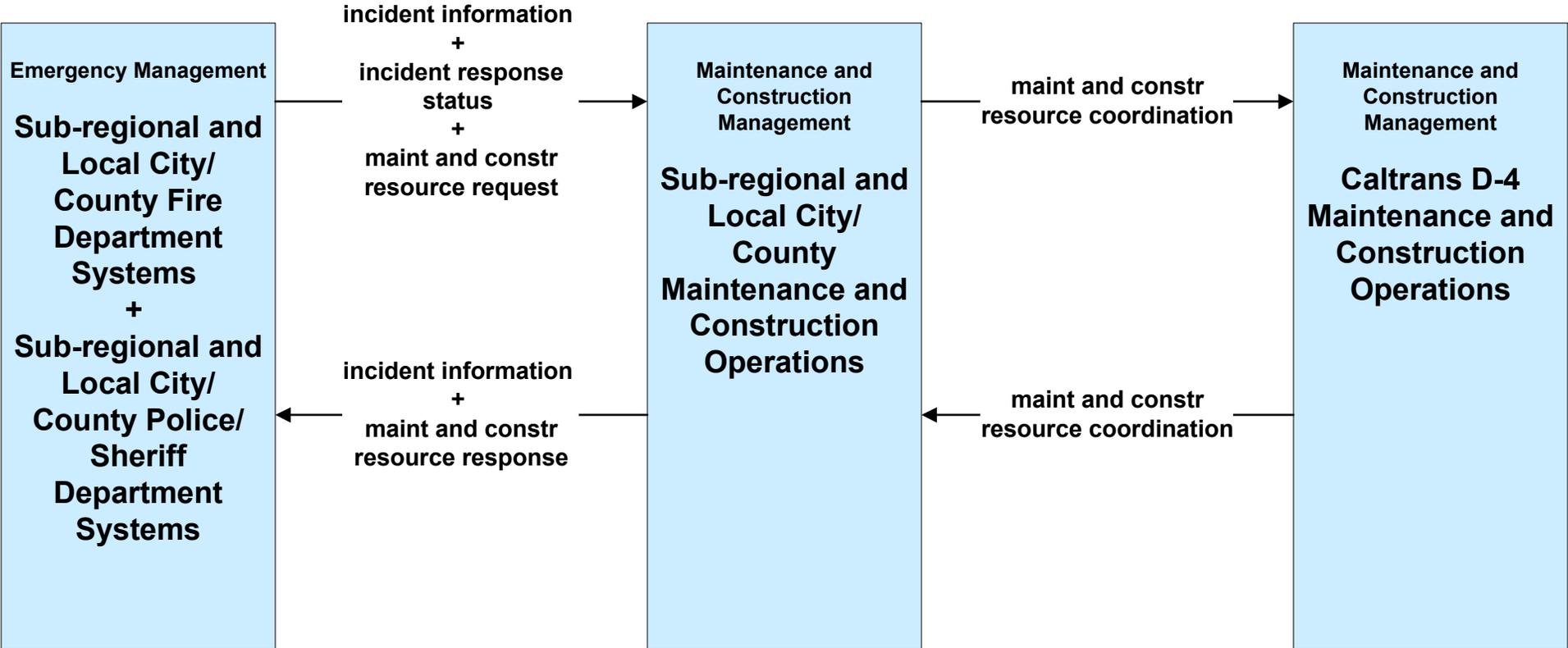
**ATMS08 - Incident Management
San Jose Maintenance**



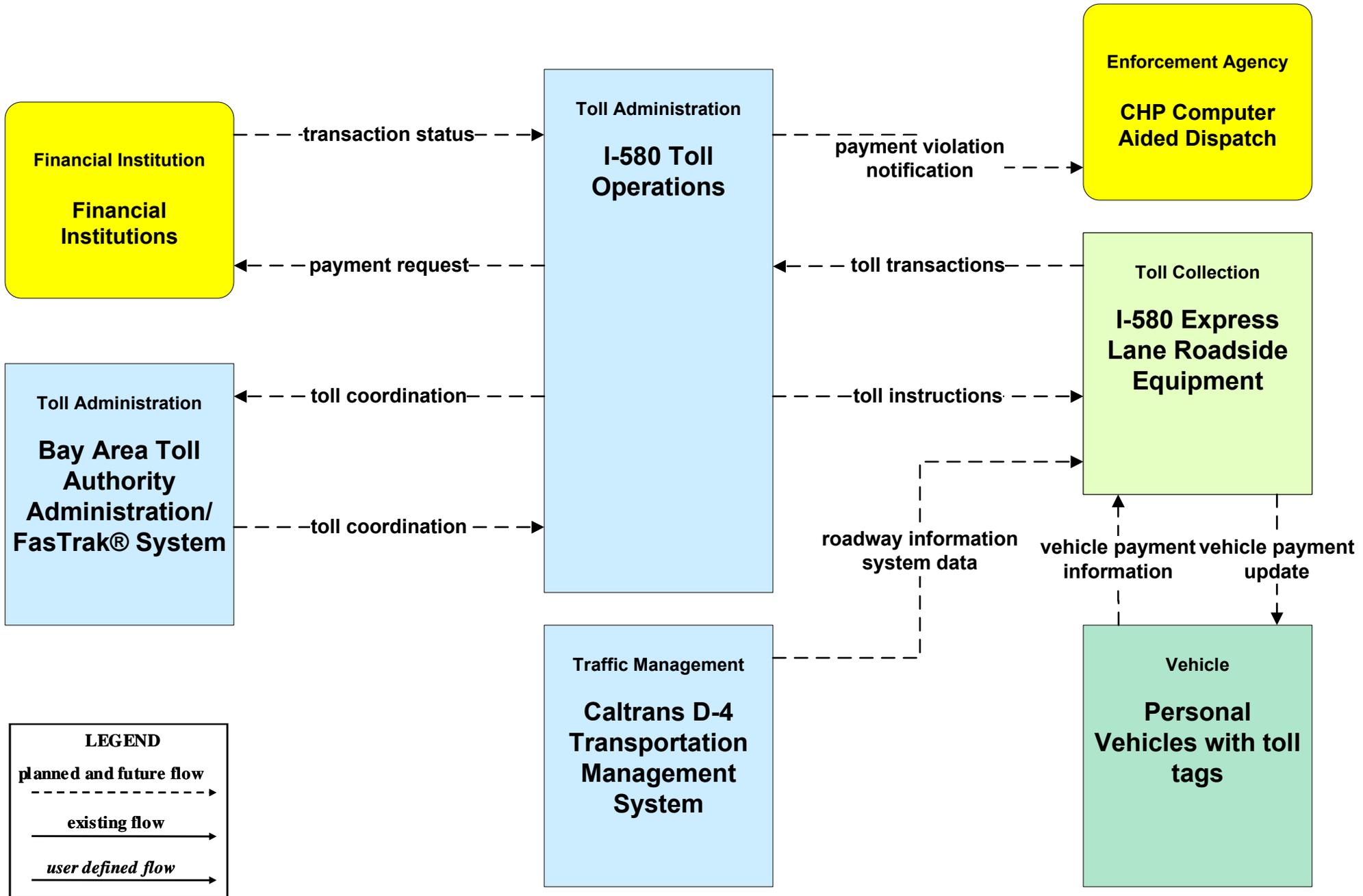
**ATMS08 - Incident Management
SF DPW**



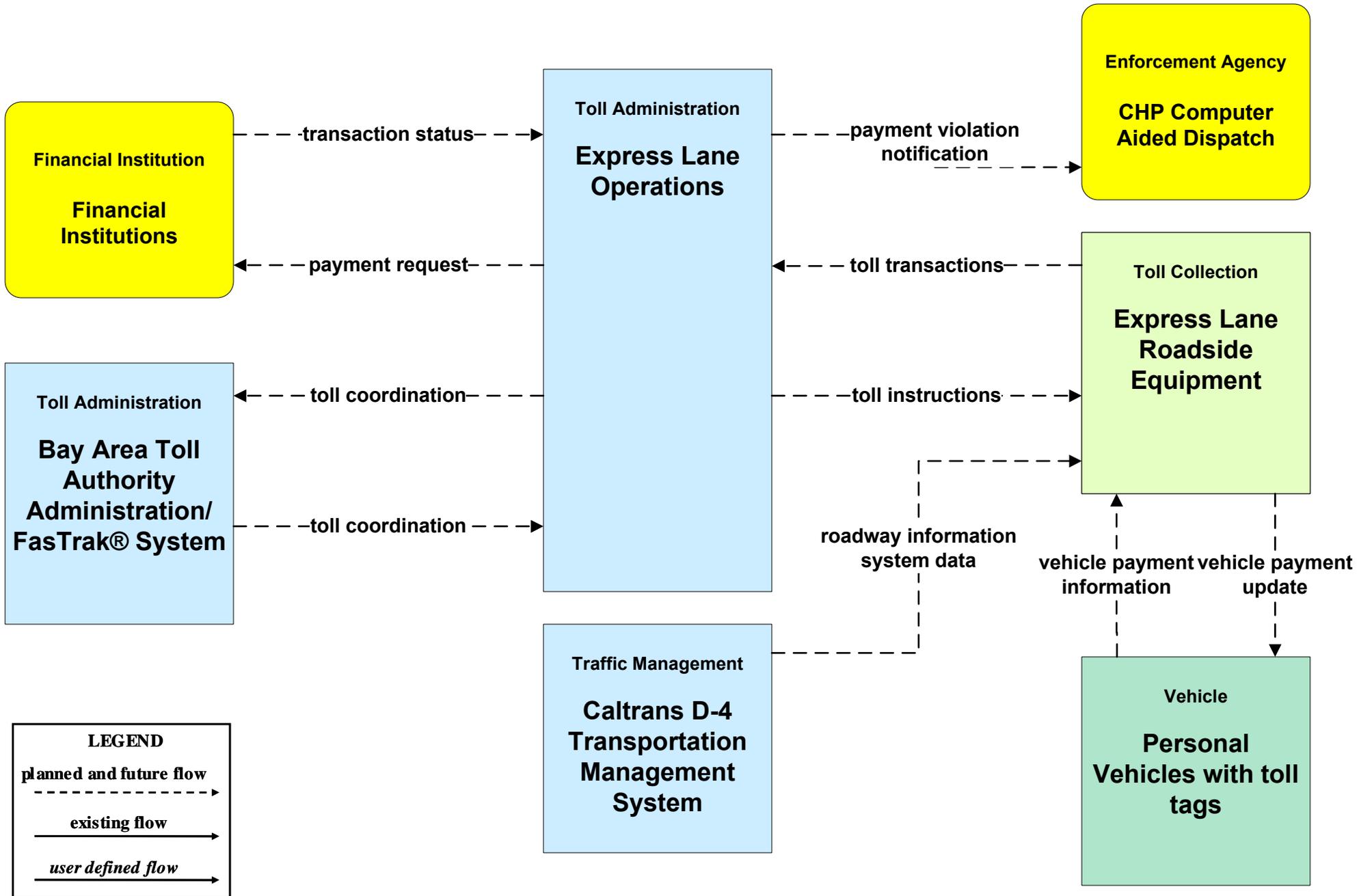
**ATMS08 - Incident Management
Sub-regional and Local City/County Maintenance**



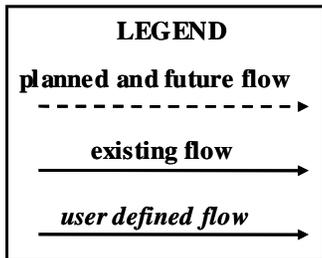
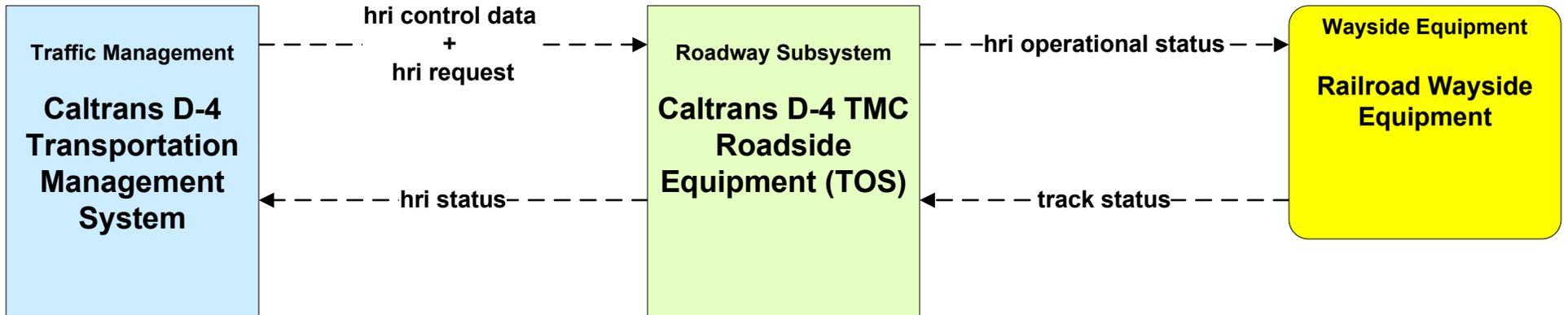
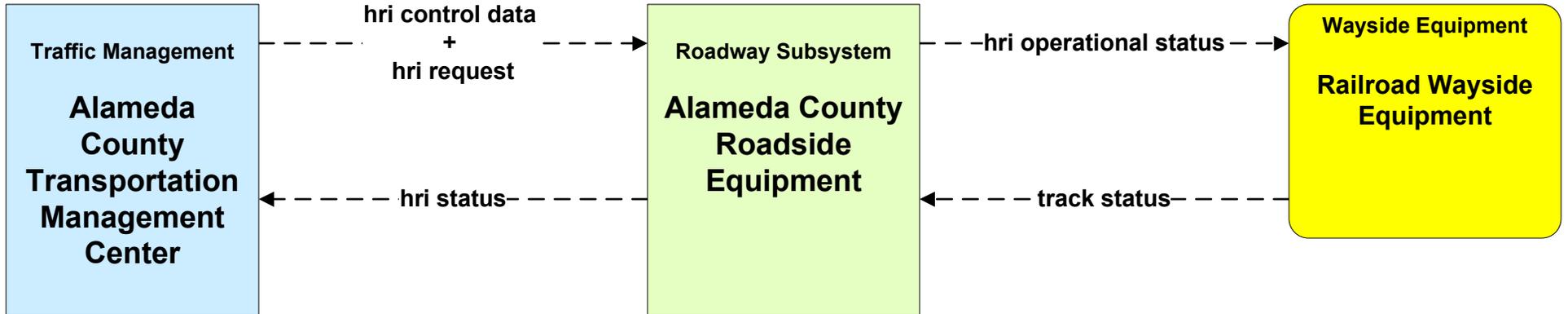
ATMS10 - Electronic Toll Collection I-580 Express Lane System



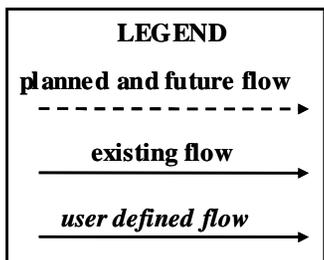
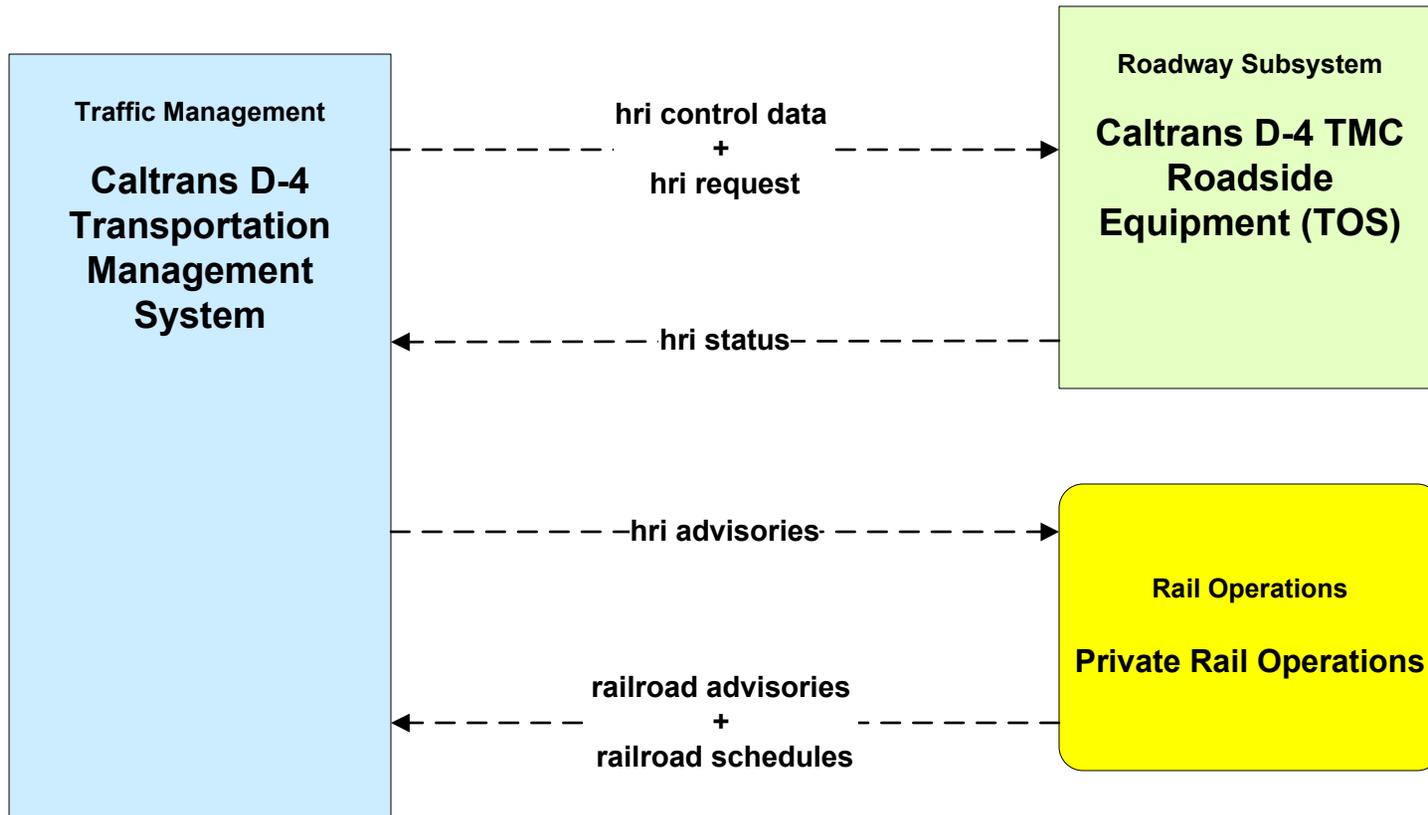
ATMS10 - Electronic Toll Collection Express Lane Systems



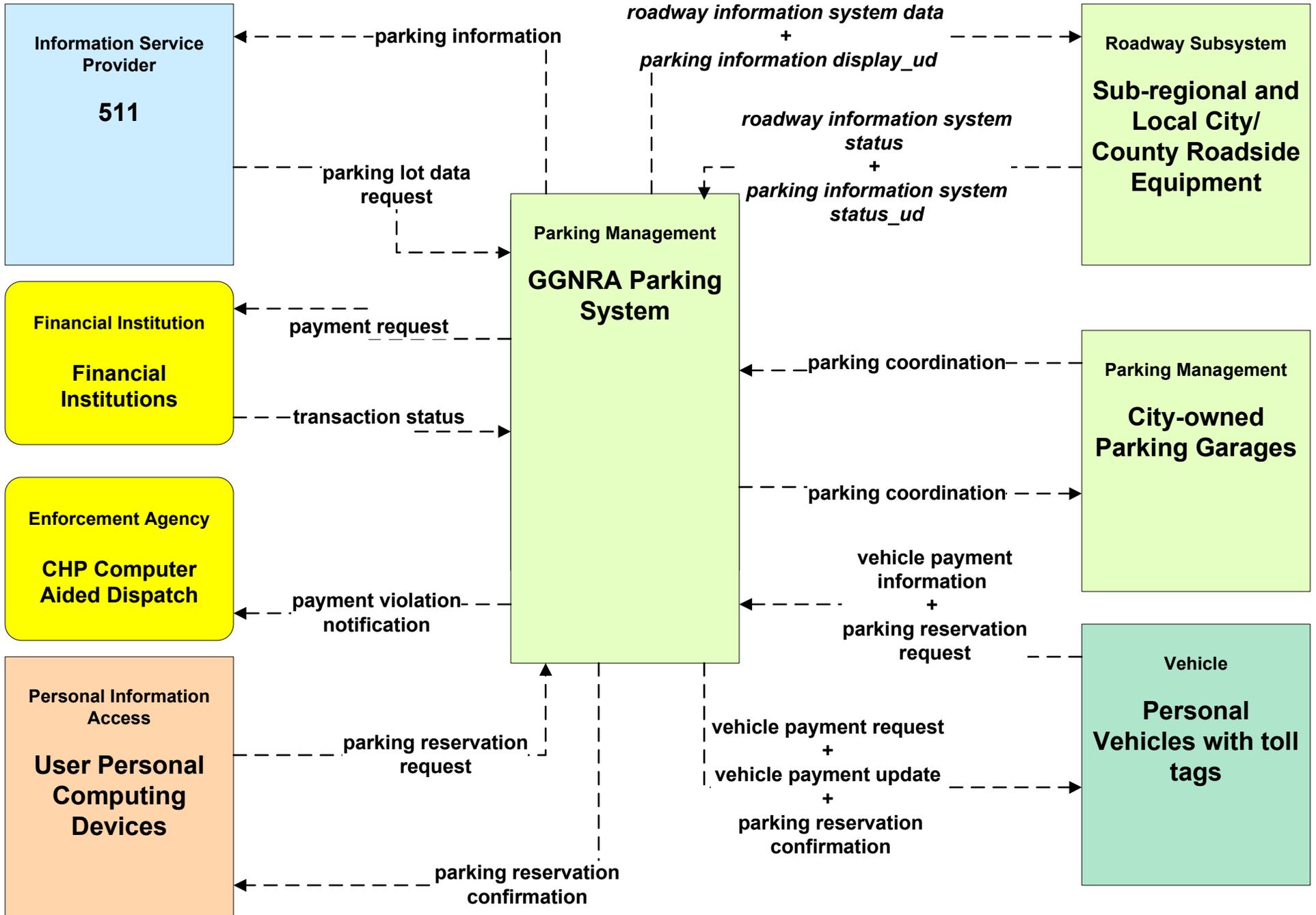
**ATMS13 - Standard Railroad Crossing
Alameda County TMC / Caltrans D4**



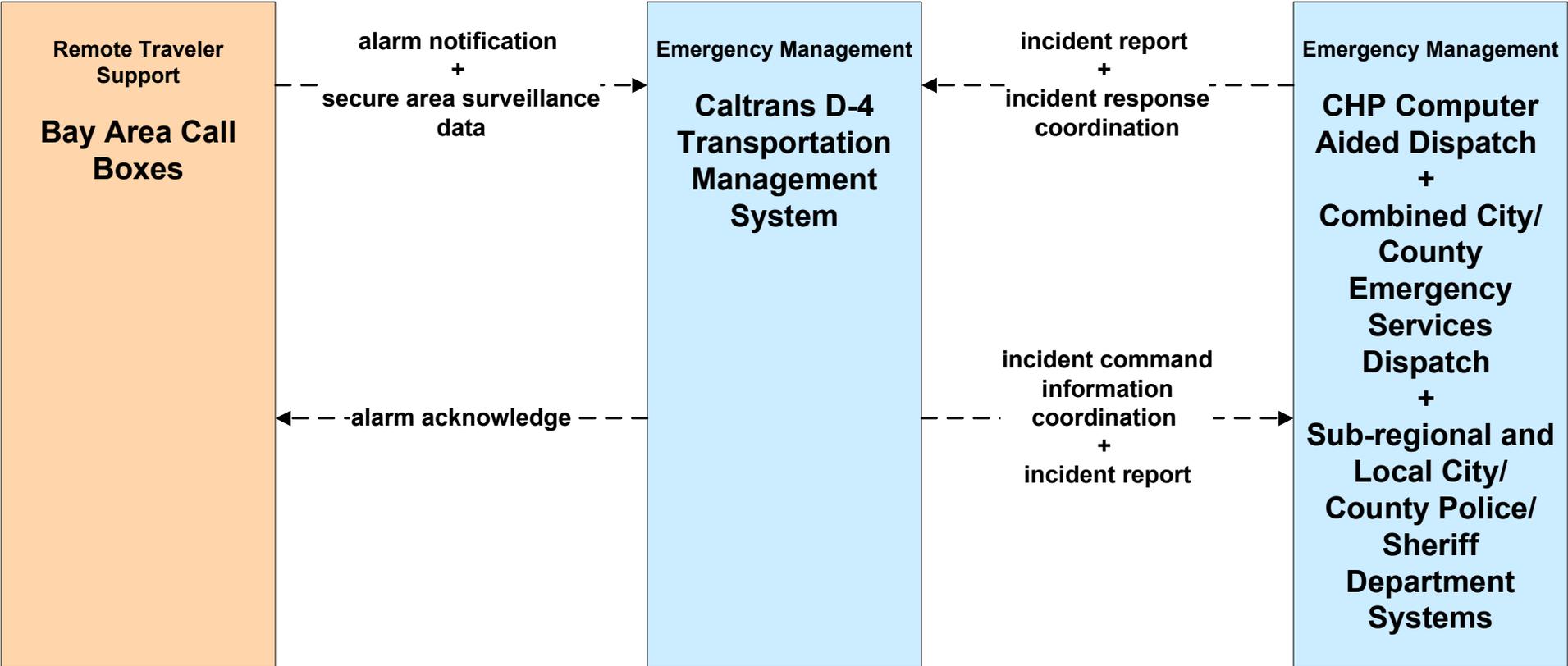
**ATMS15 - Railroad Operations Coordination
Caltrans D4**



ATMS16 - Parking Facility Management GGNRA Parking System



**EM03 - Mayday Support
Emergency Call Box Program**



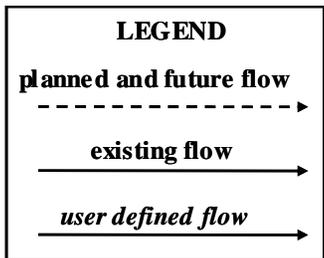
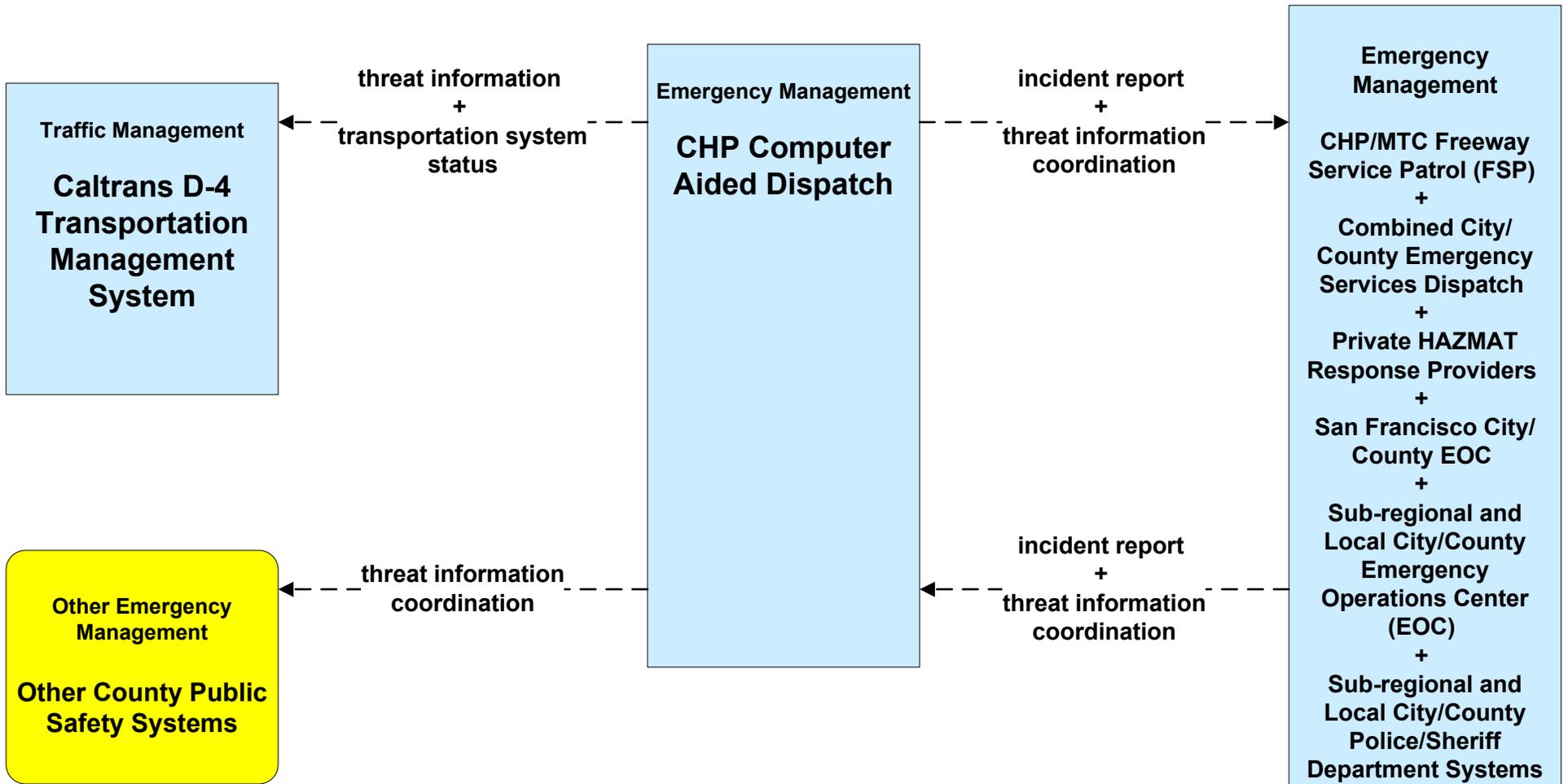
LEGEND

planned and future flow
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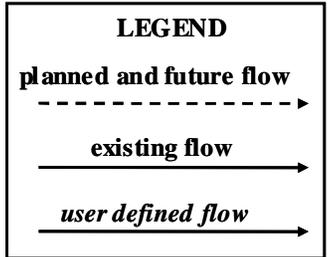
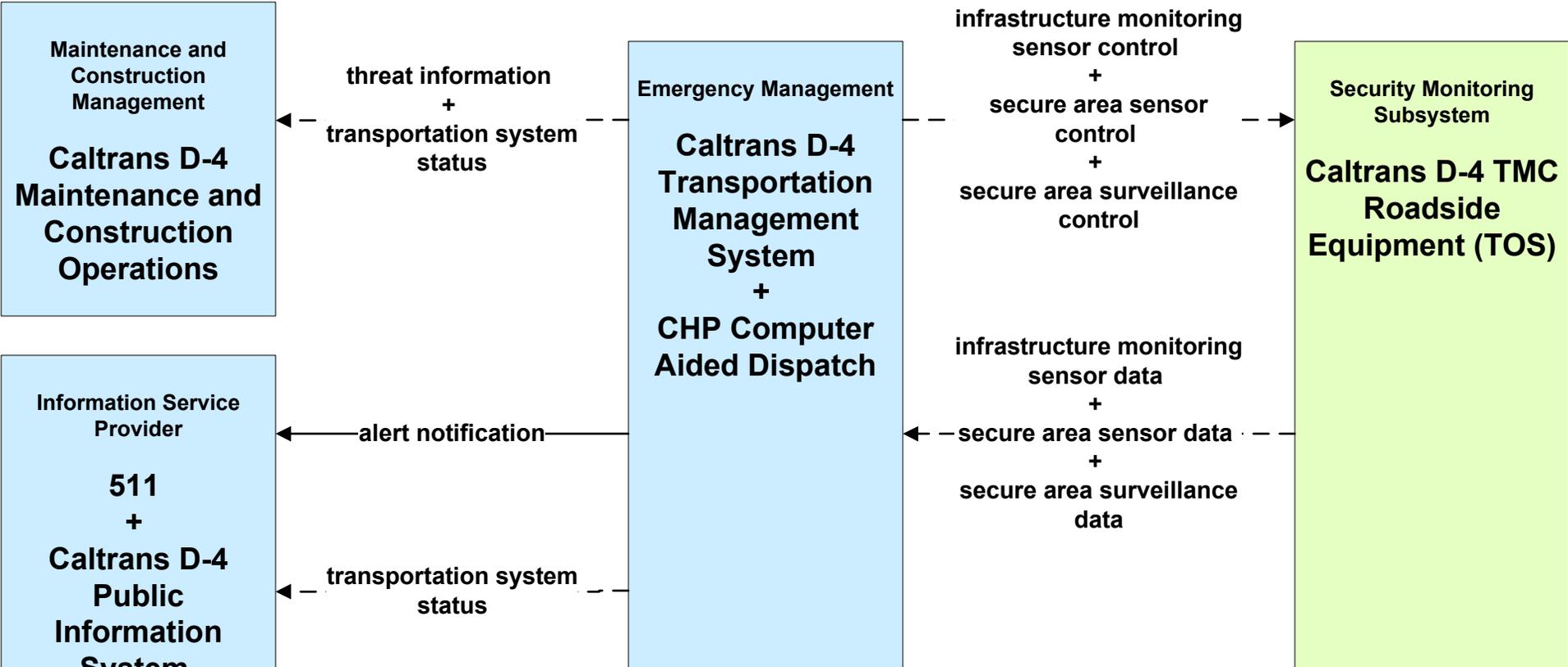
existing flow
 _____>

user defined flow
 _____>

**EM05 - Transportation Infrastructure Protection
CHP – Caltrans (1 of 2)**



**EM05 - Transportation Infrastructure Protection
CHP – Caltrans (2 of 2)**



**EM06 - Wide Area Alert
Amber Alert (2 of 2)**

Maintenance and Construction Management

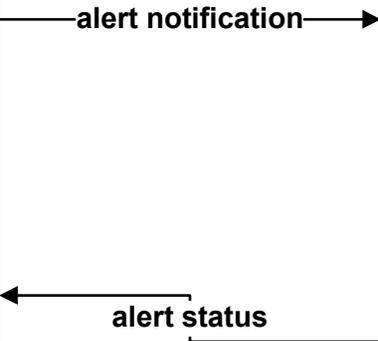
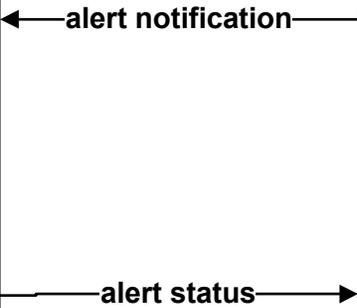
- Alameda County Public Works
- +
- Bay Area Incident Response System (BAIRS)
- +
- Caltrans D-4 Maintenance and Construction Operations
- +
- Oakland Maintenance and Construction Operations
- +
- San Jose Maintenance and Construction Operations
- +
- SF Department of Public Works (DPW)
- +
- Sub-regional and Local City/County Maintenance and Construction Operations

Emergency Management

CHP Computer Aided Dispatch

Traffic Management

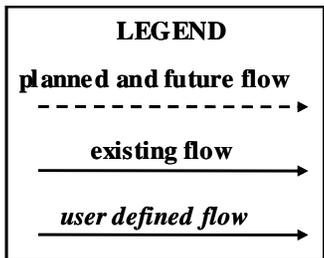
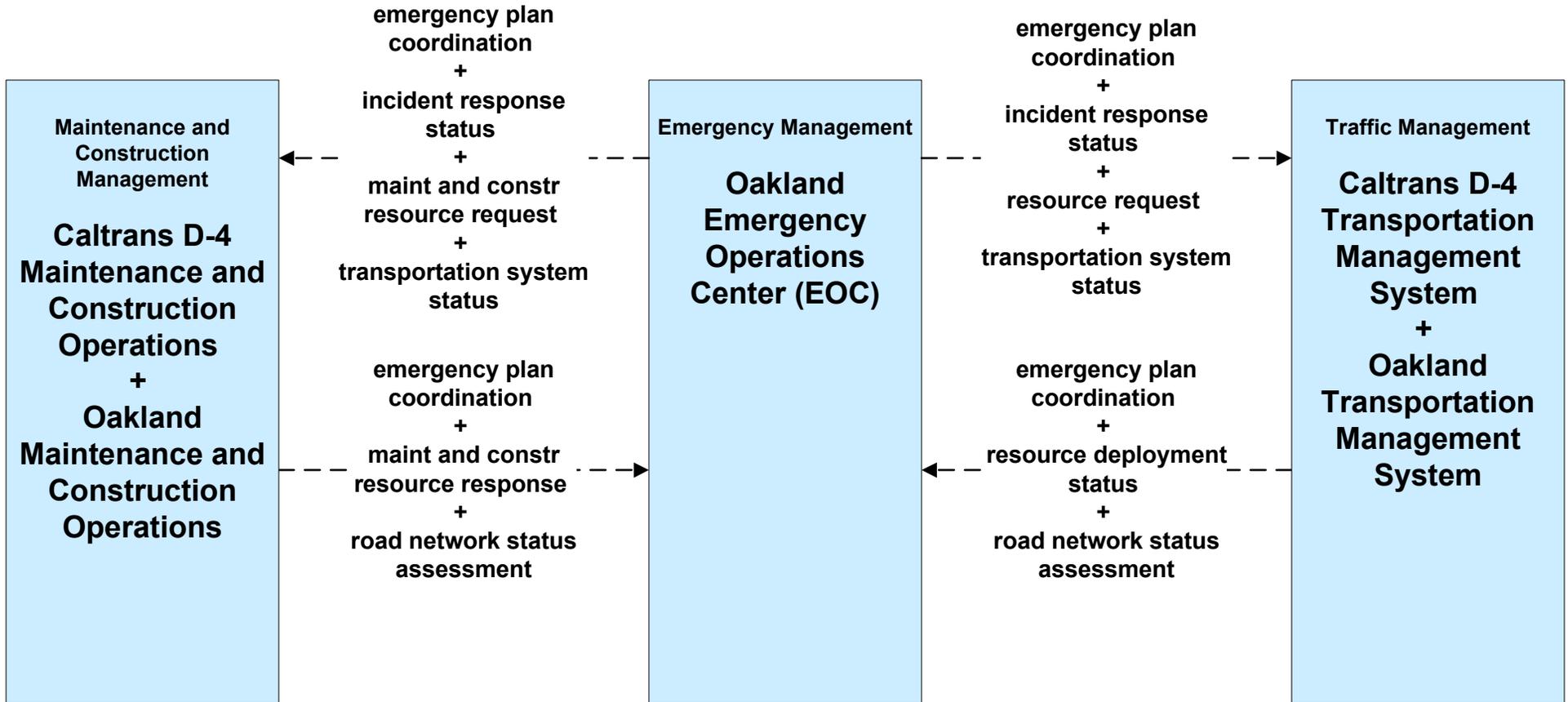
- Alameda County Transportation Management Center
- +
- Caltrans D-4 Transportation Management System
- +
- East Bay SMART Corridor ATMS
- +
- I-580 SMART Corridor ATMS
- +
- Oakland Transportation Management System
- +
- San Jose Transportation Management System
- +
- SFgo Transportation Management System
- +
- Silicon Valley SMART Corridor ATMS
- +
- SR 4 East SMART Corridor ATMS
- +
- Sub-regional and Local City/County Traffic Operations Systems



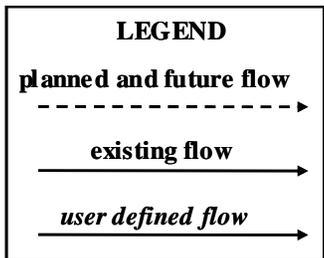
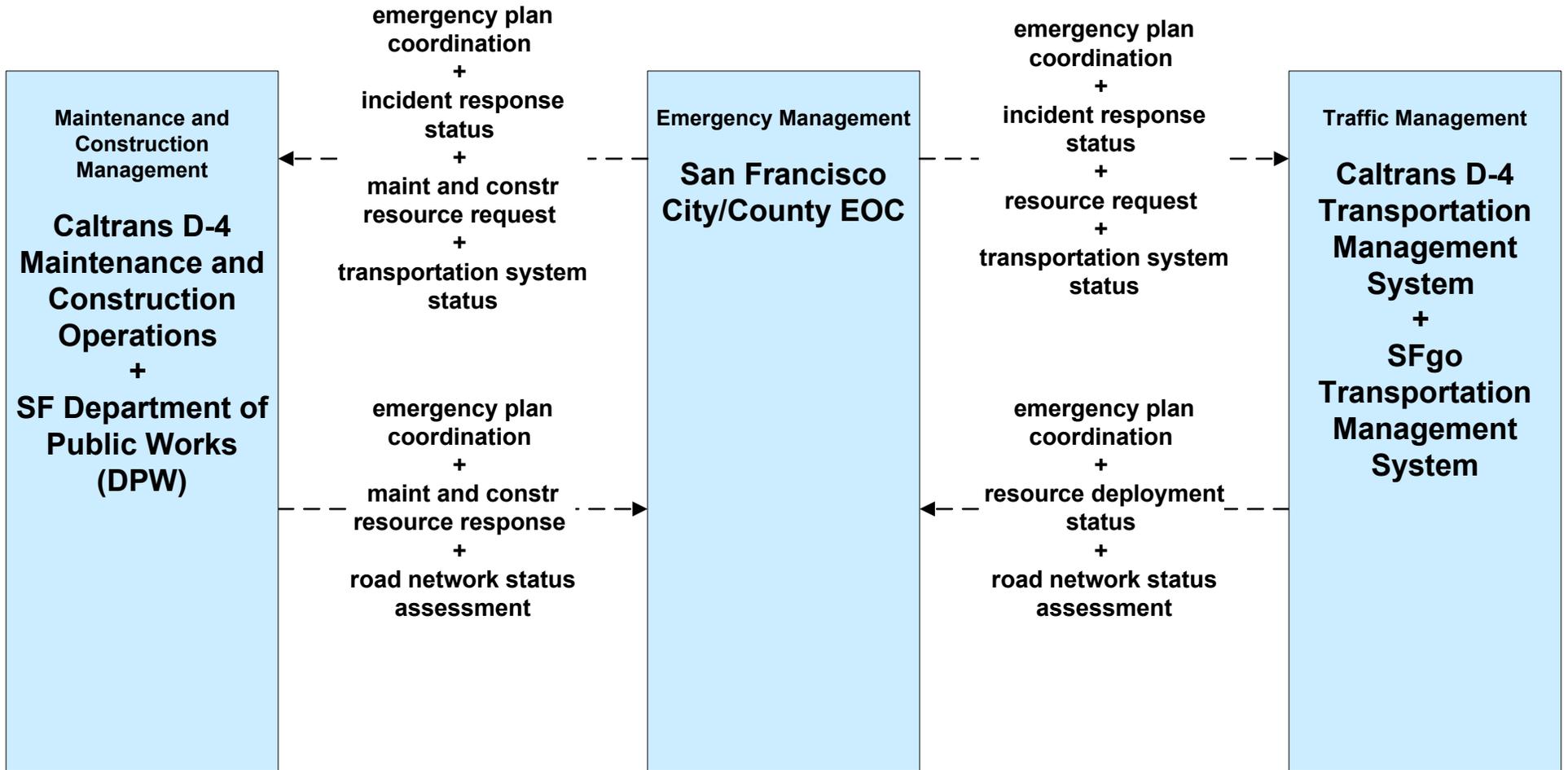
LEGEND

- planned and future flow* → (dashed line)
- existing flow* → (solid line)
- user defined flow* → (solid line)

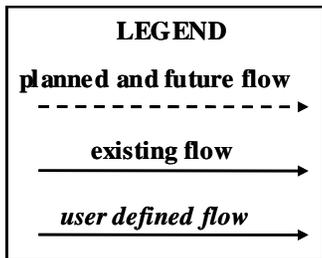
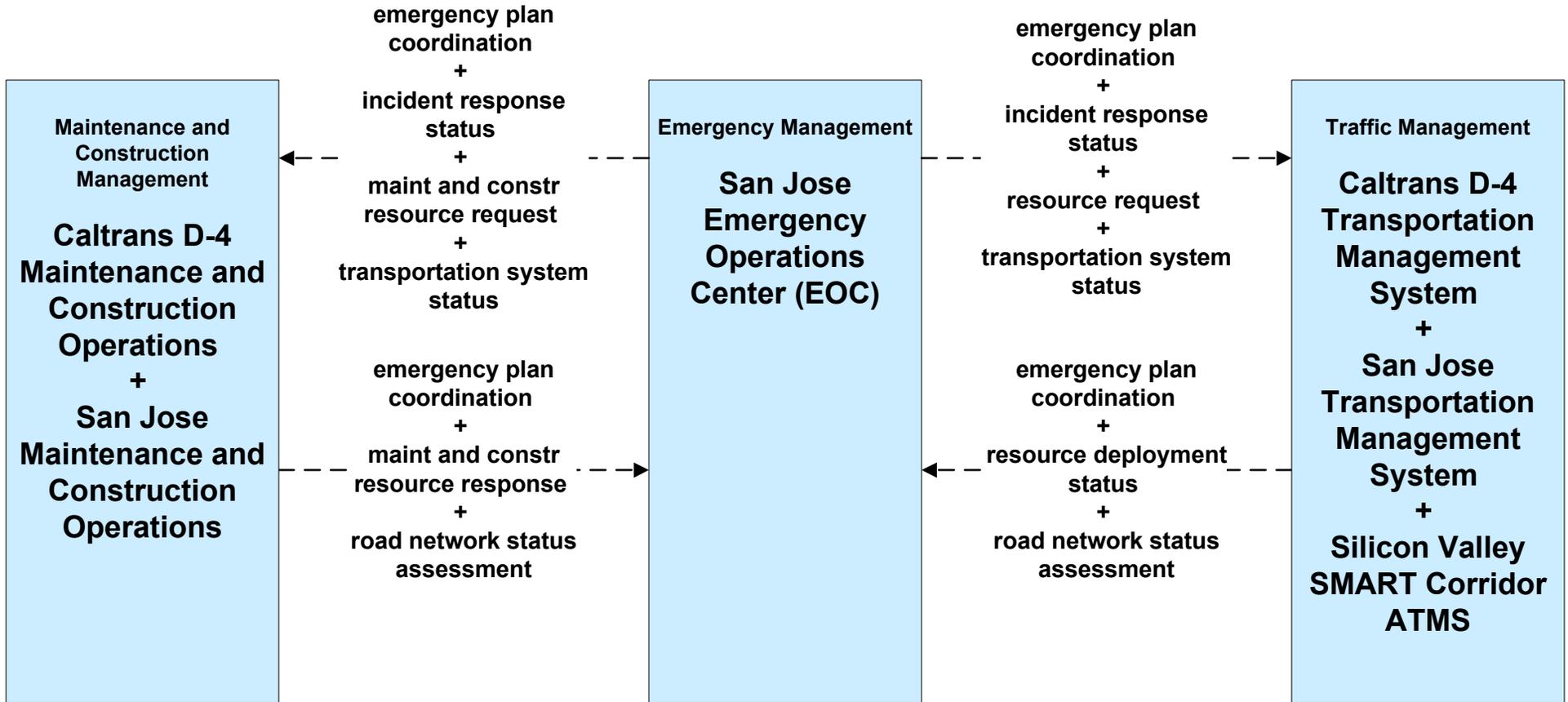
**EM08 - Disaster Response and Recovery
Oakland EOC (2 of 2)**



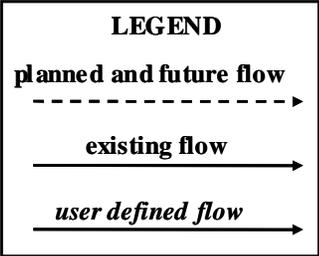
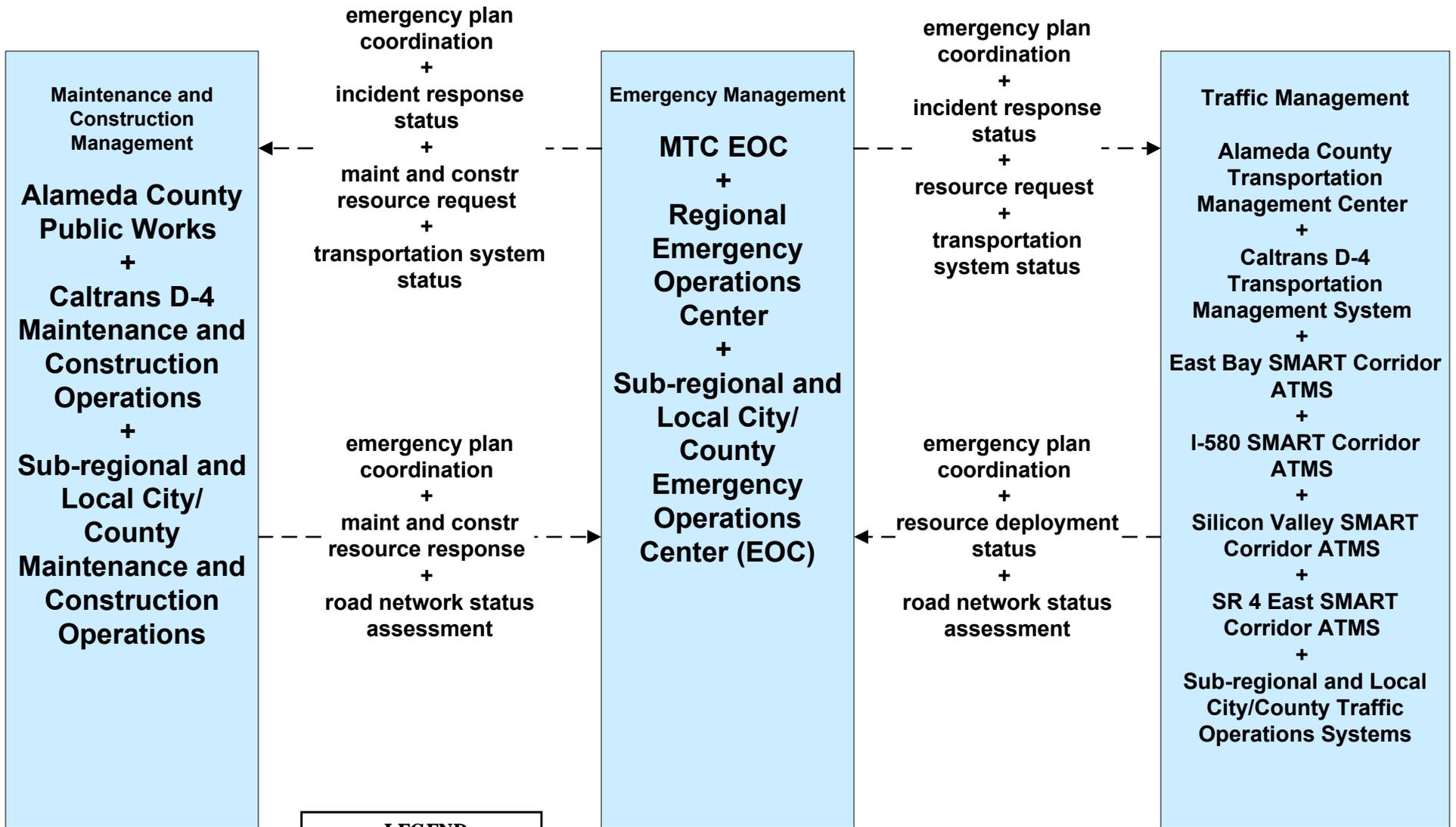
**EM08 - Disaster Response and Recovery
San Francisco City/County EOC (2 of 2)**



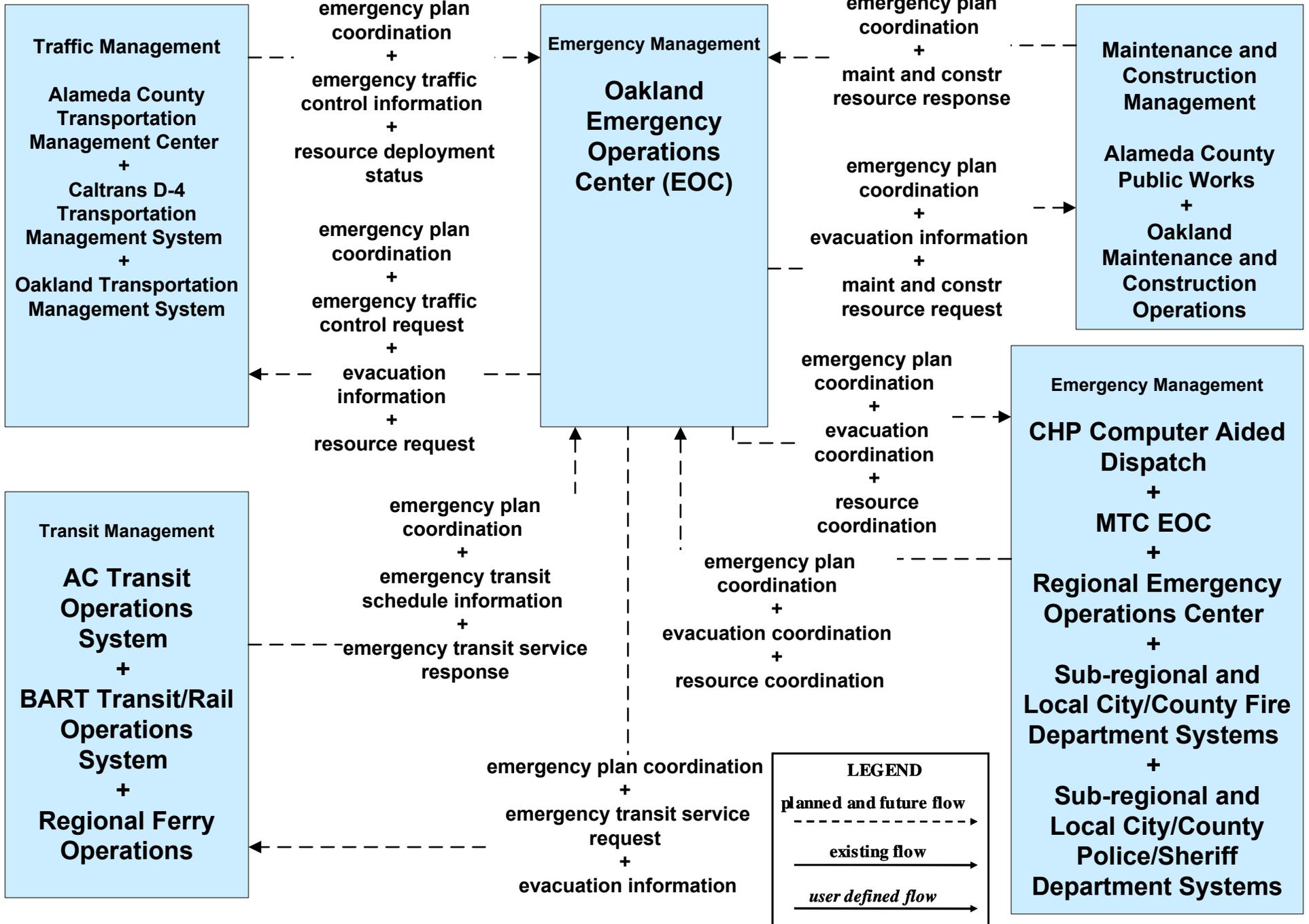
**EM08 - Disaster Response and Recovery
San Jose EOC (2 of 2)**



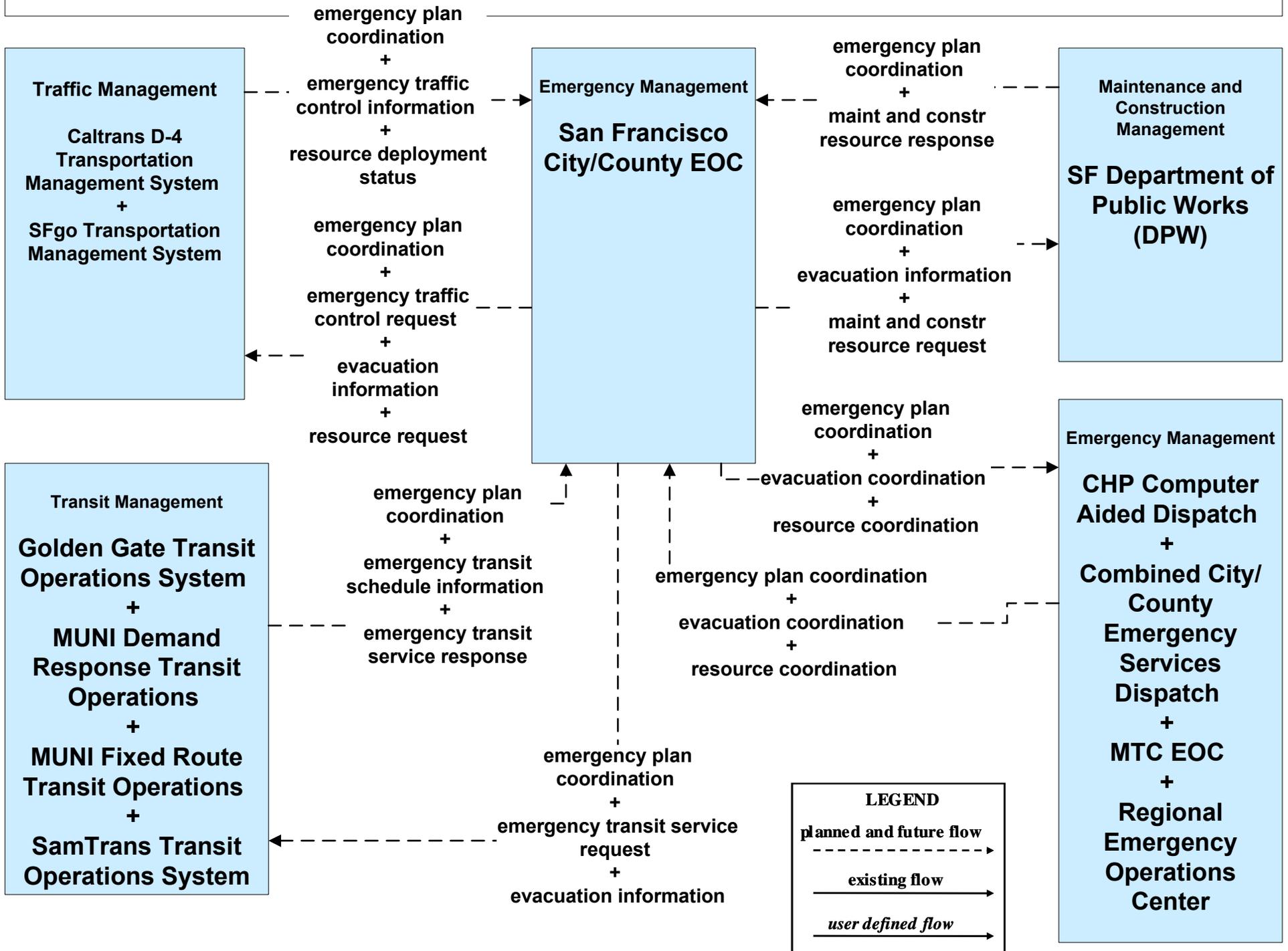
**EM08 - Disaster Response and Recovery
Local City/County/Regional EOC (2 of 2)**



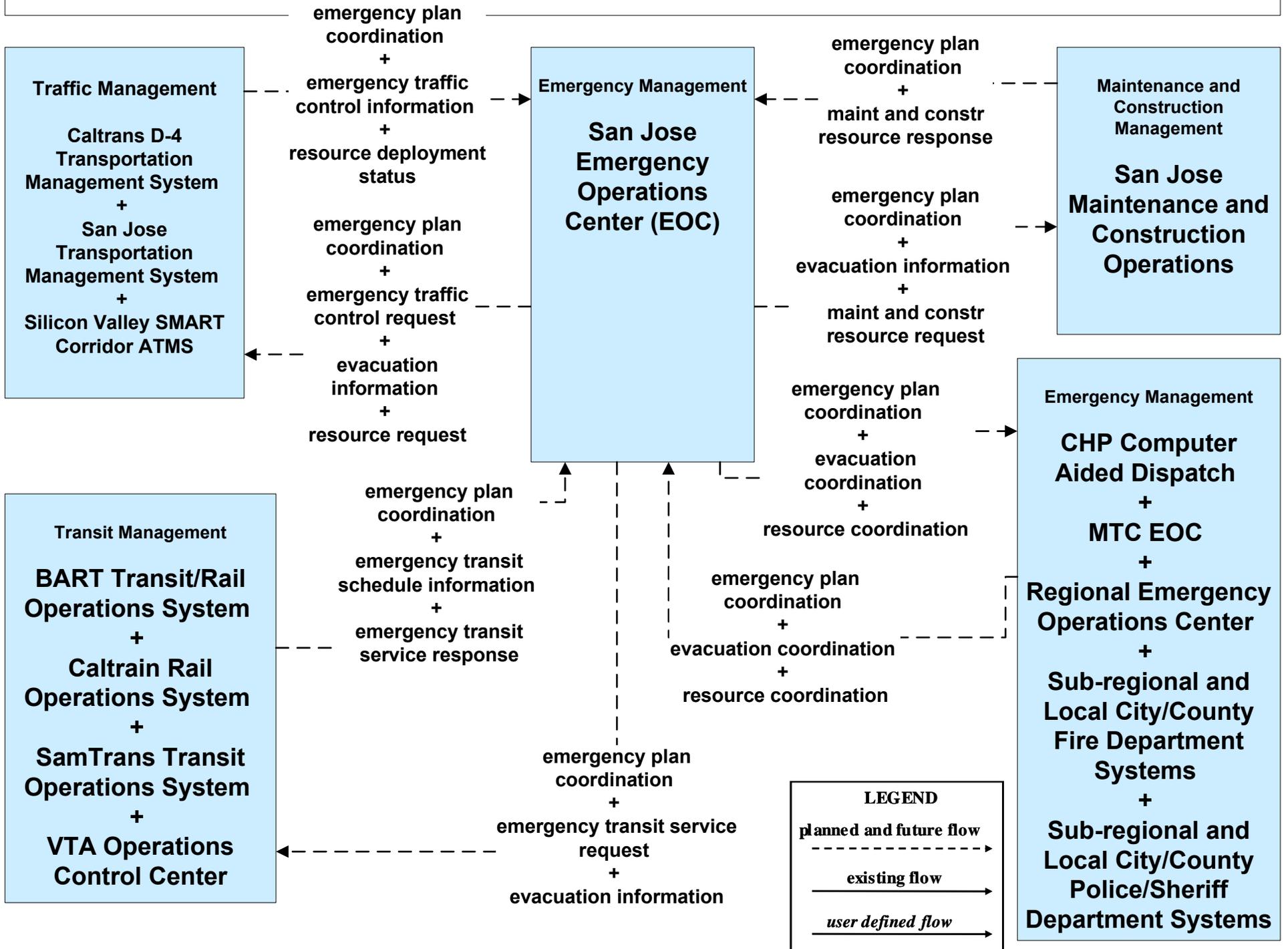
EM09 - Evacuation and Reentry Management Oakland EOC



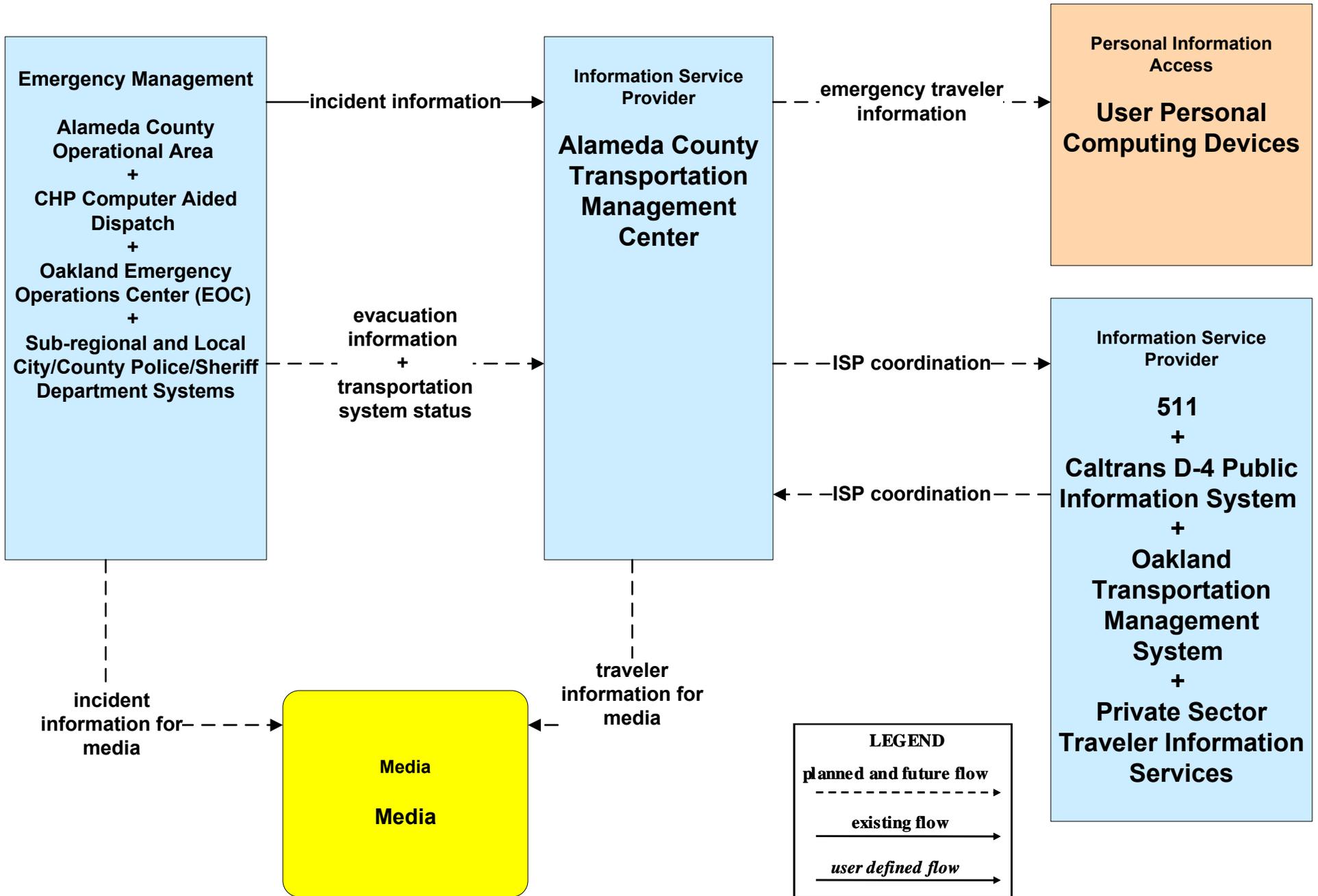
EM09 - Evacuation and Reentry Management San Francisco City/County EOC



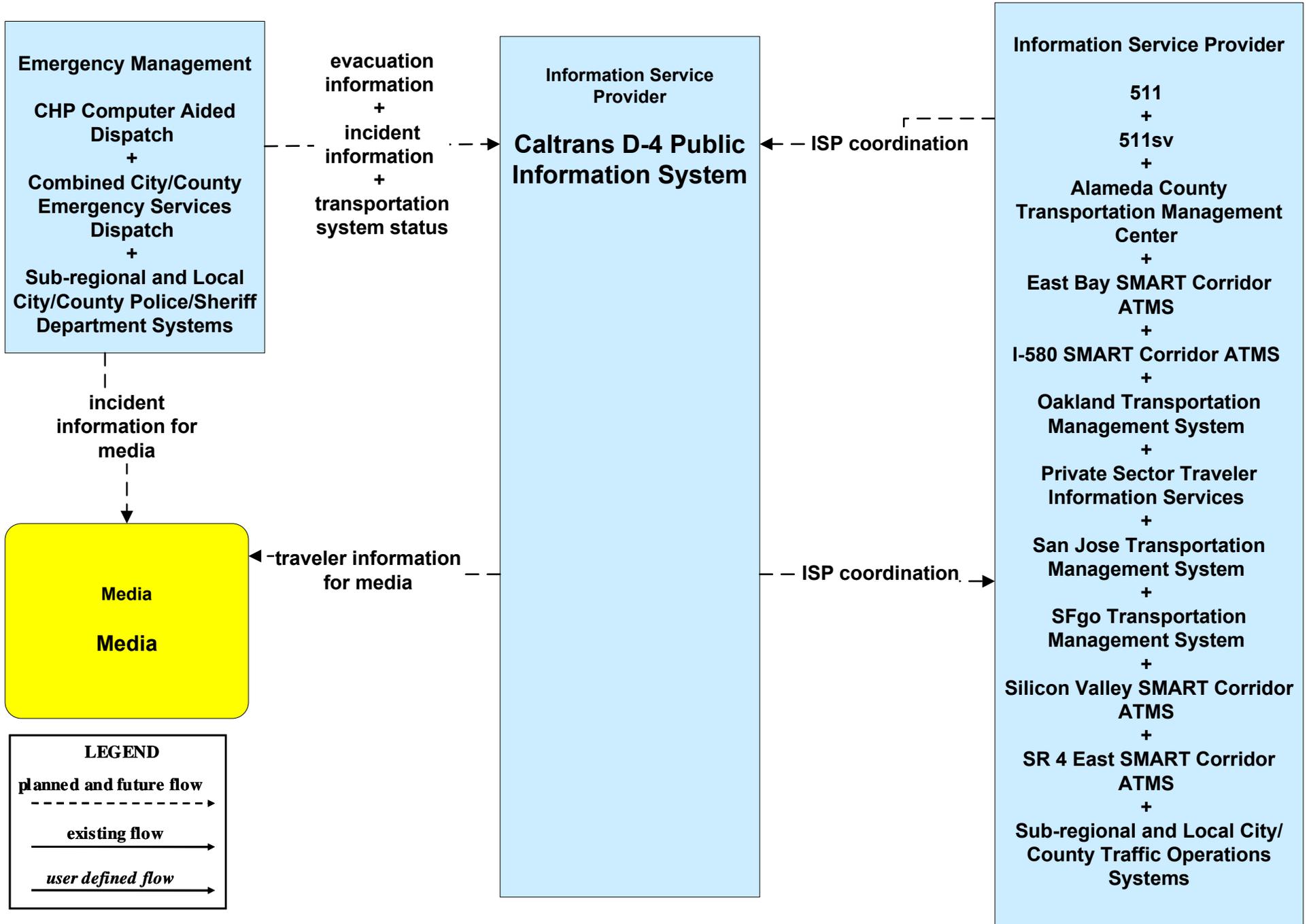
EM09 - Evacuation and Reentry Management San Jose EOC



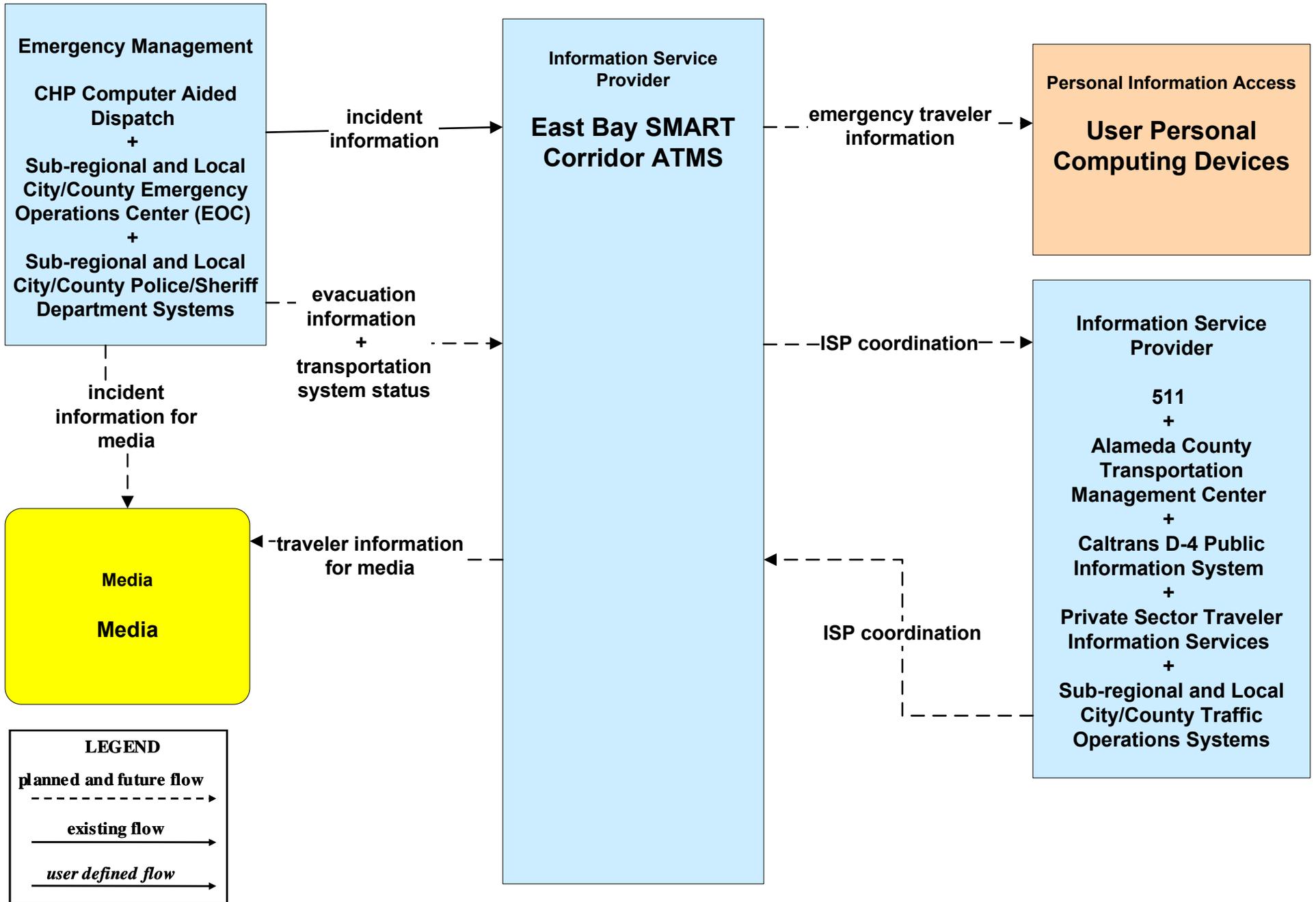
EM10 - Disaster Traveler Information Alameda County



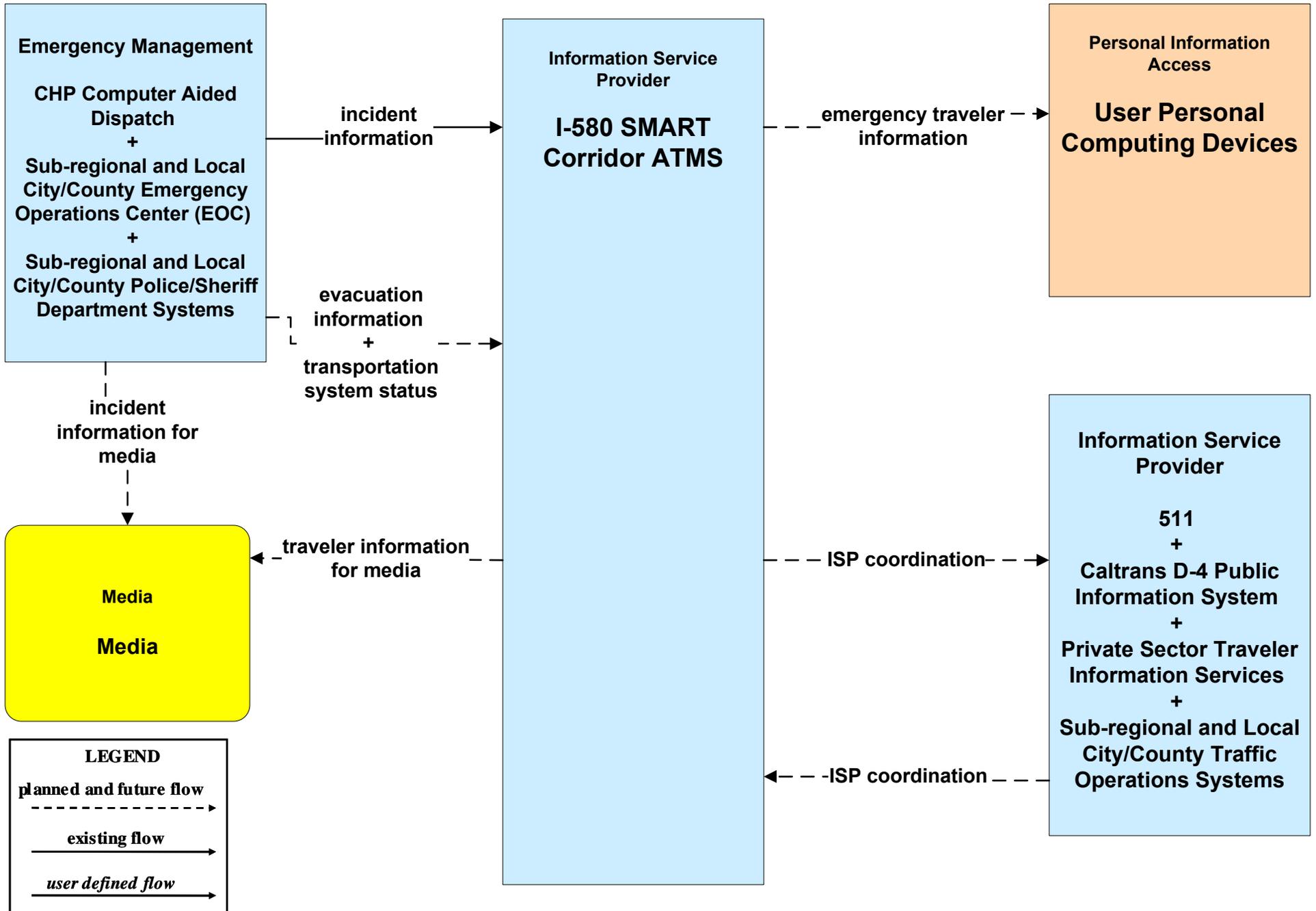
EM10 - Disaster Traveler Information Caltrans D-4 Public Information Office



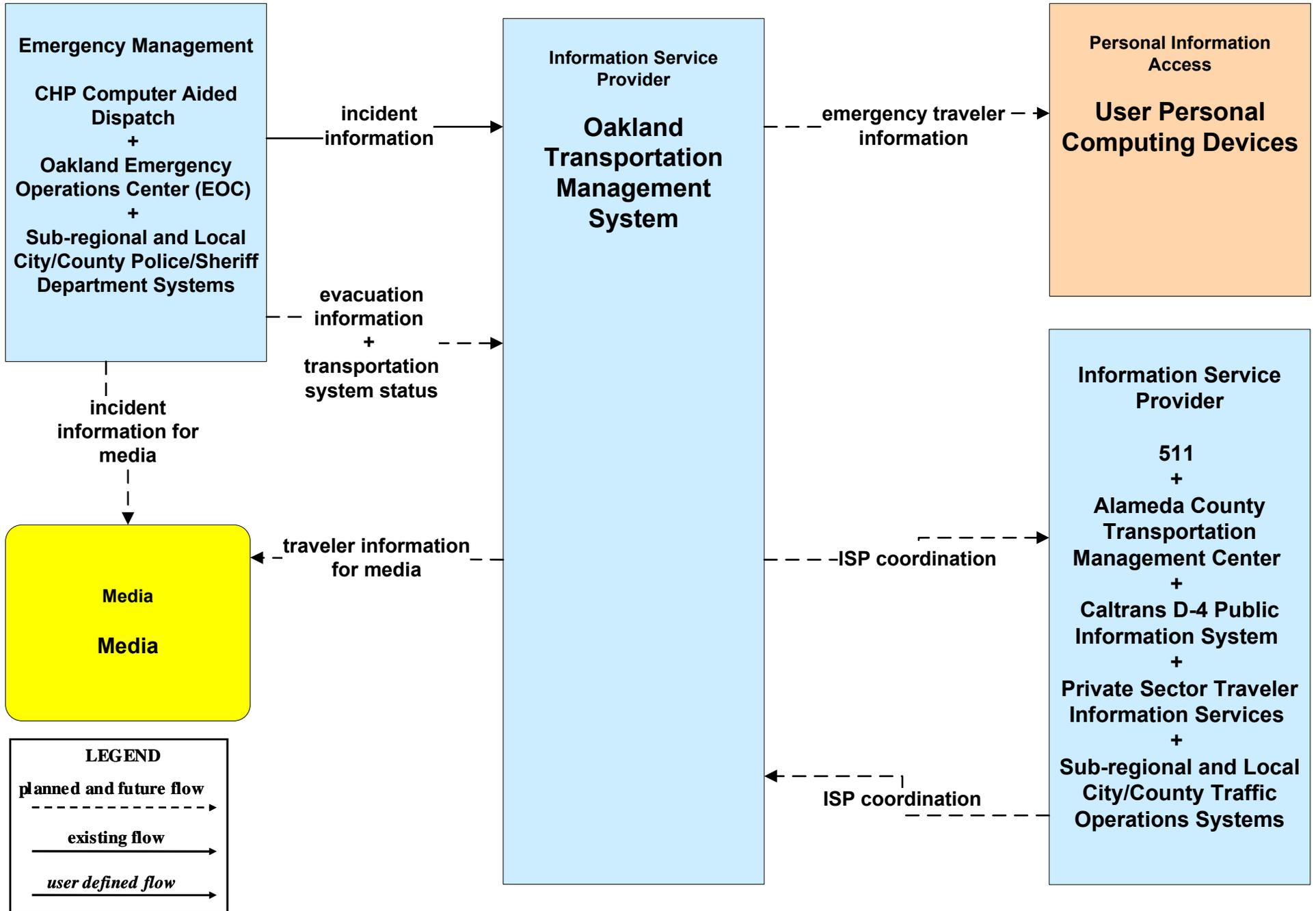
EM10 - Disaster Traveler Information East Bay SMART Corridor



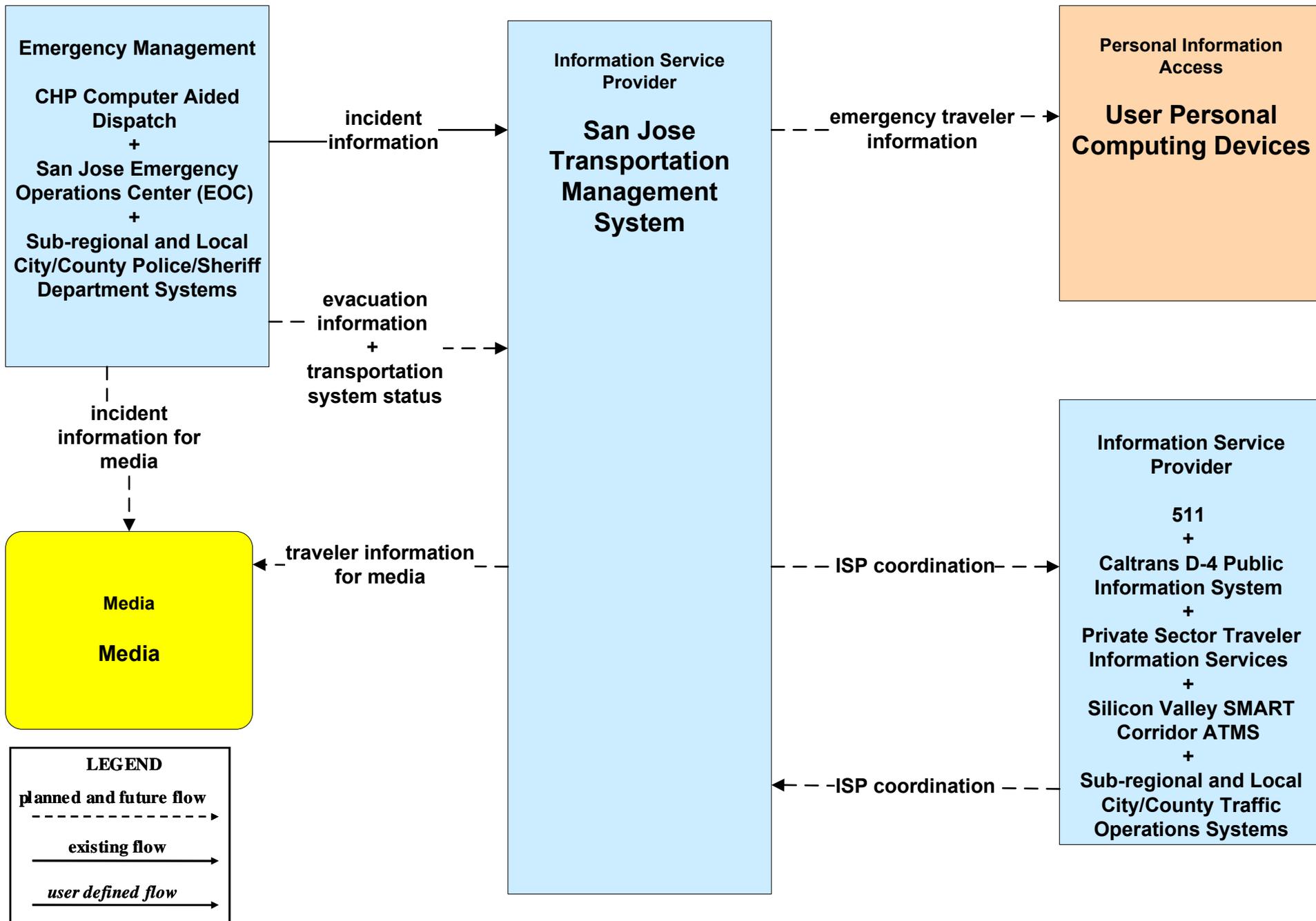
EM10 - Disaster Traveler Information I-580 SMART Corridor



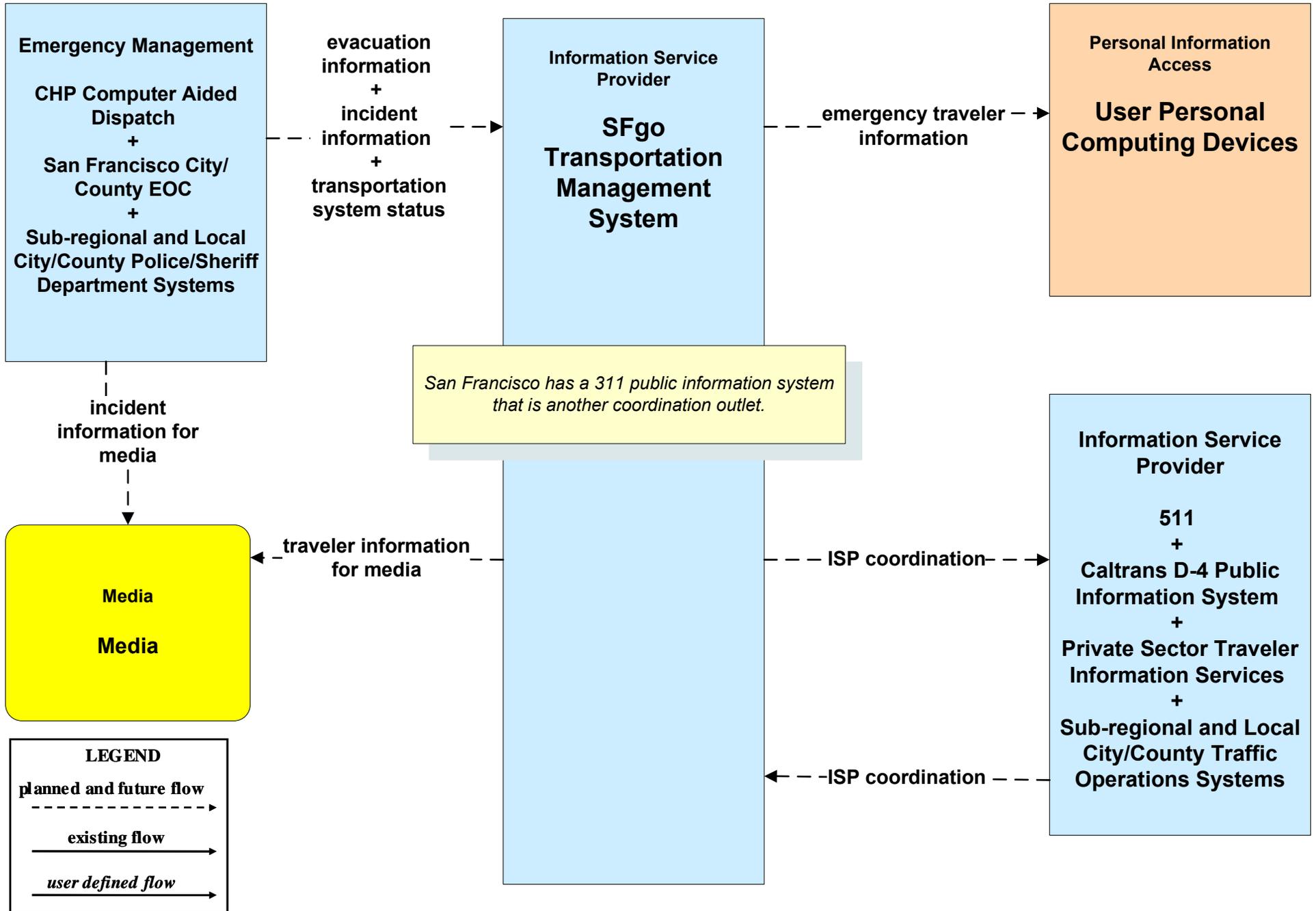
EM10 - Disaster Traveler Information Oakland Transportation Management System



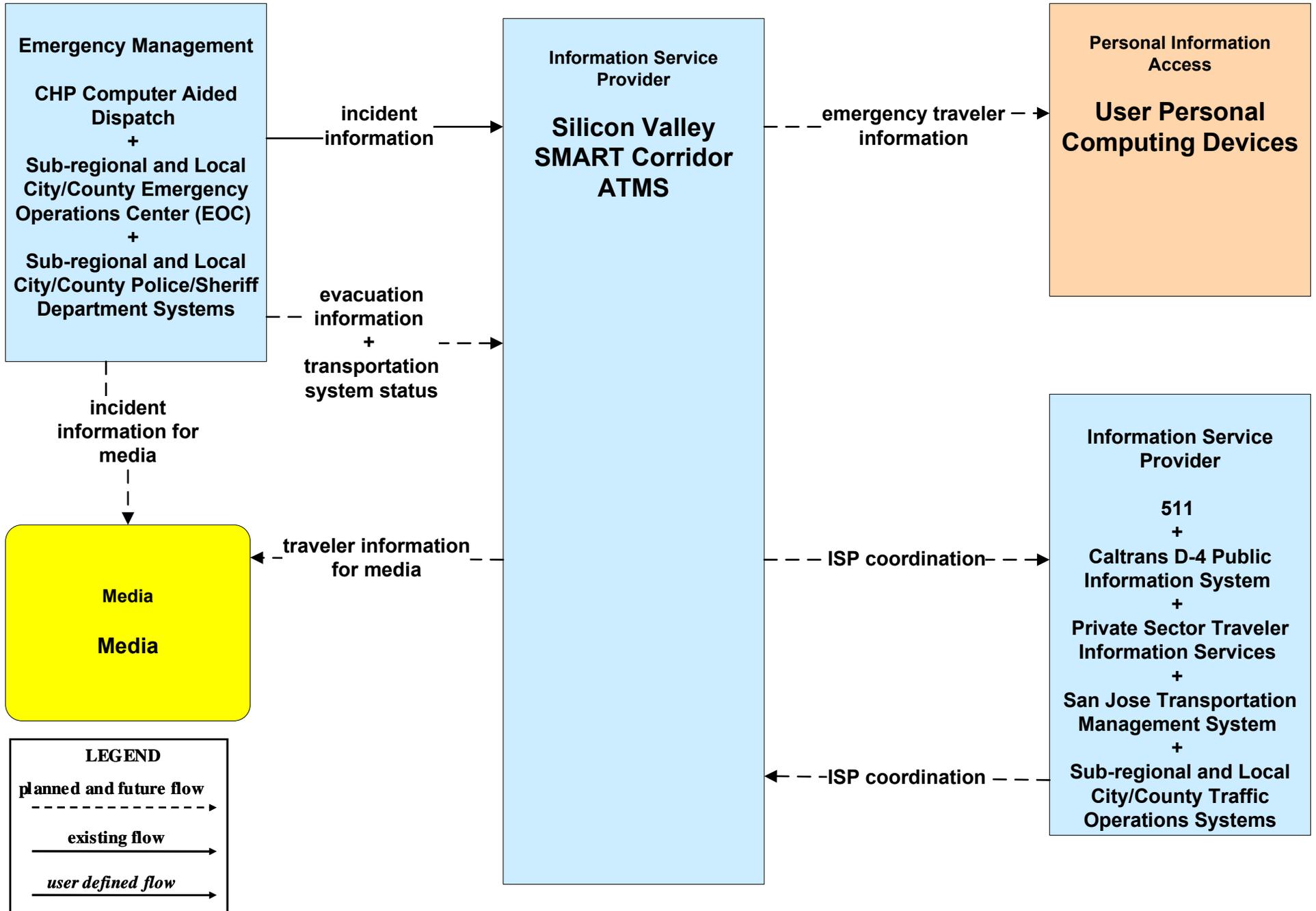
EM10 - Disaster Traveler Information San Jose Transportation Management System



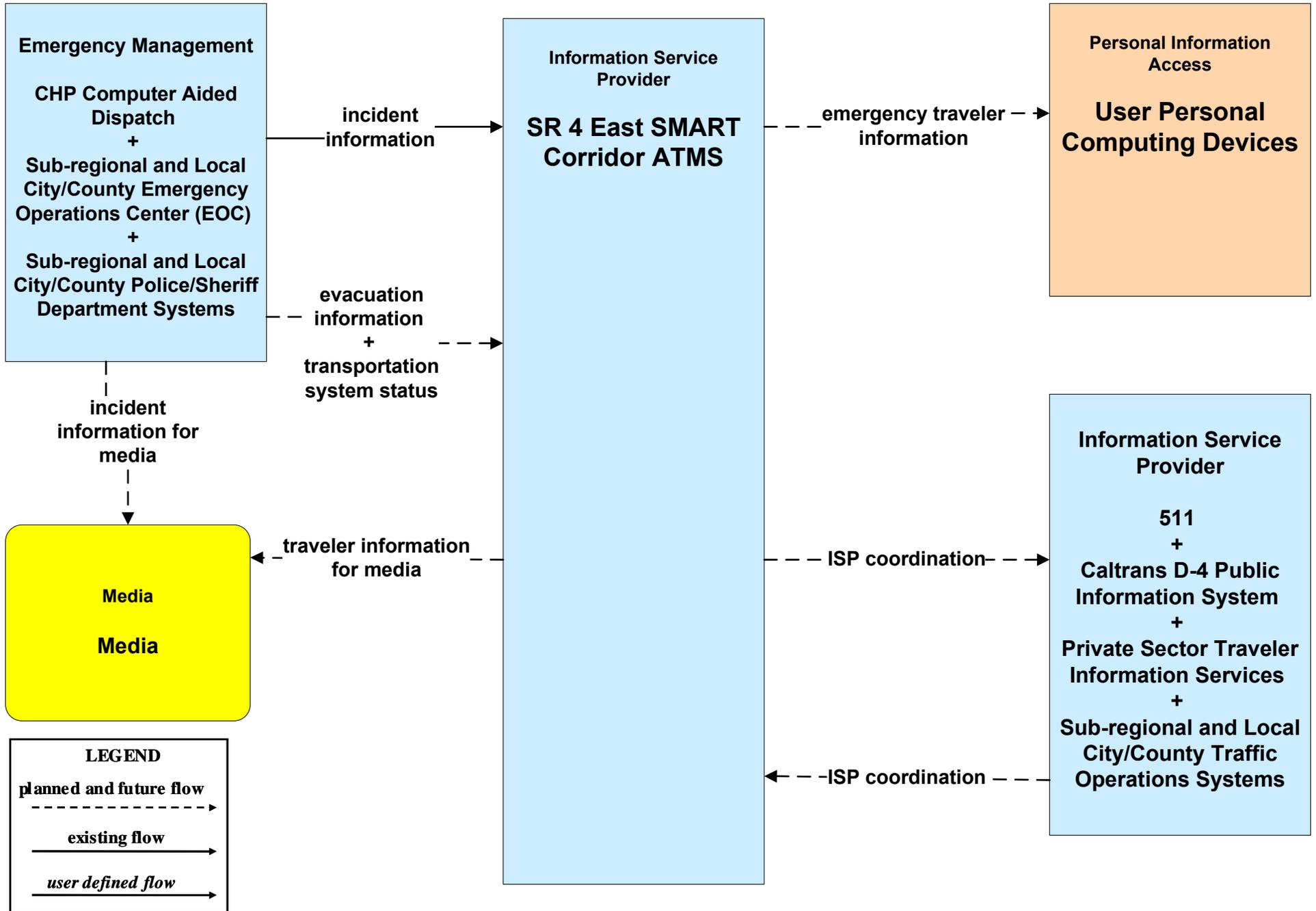
EM10 - Disaster Traveler Information San Francisco



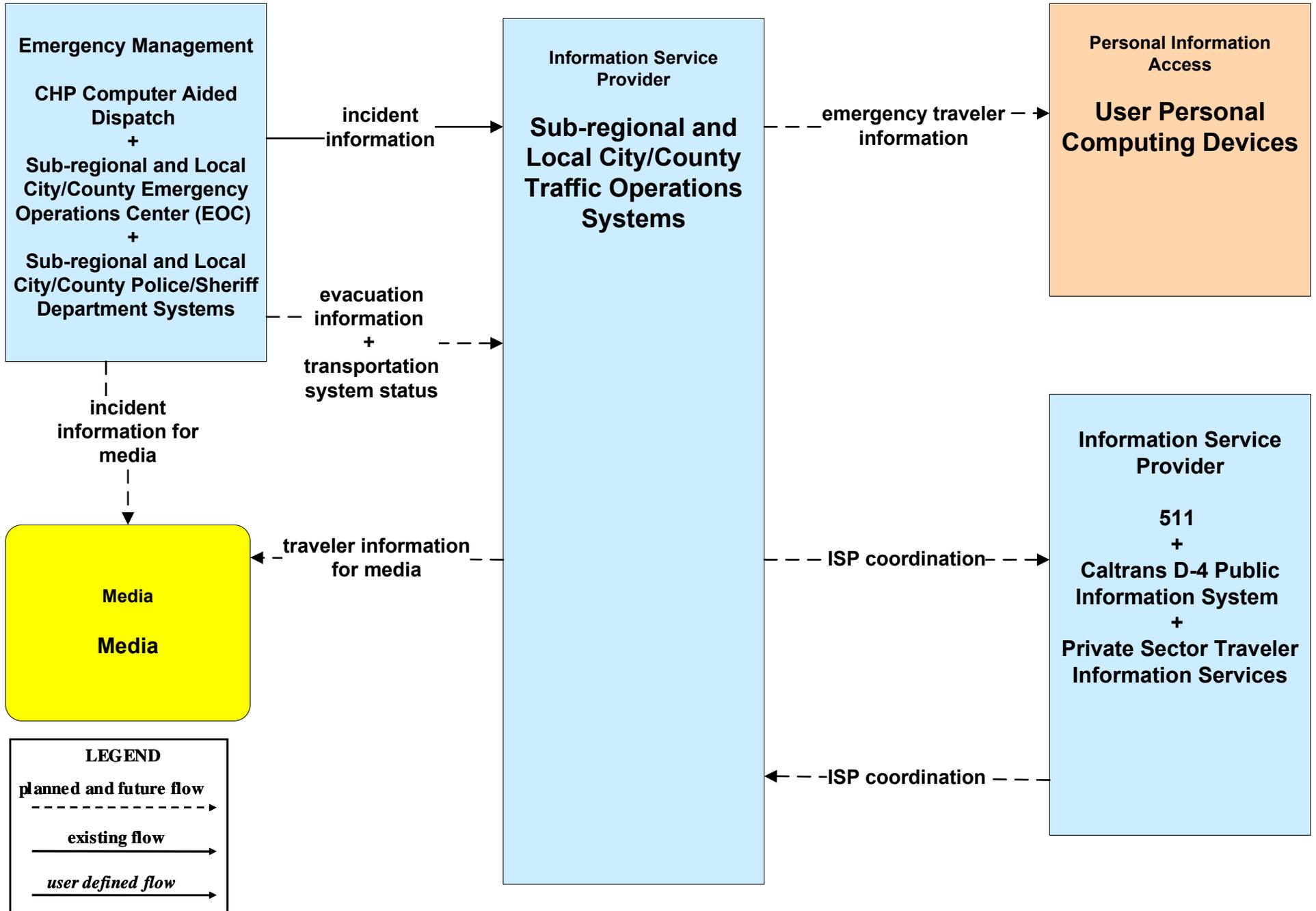
EM10 - Disaster Traveler Information Silicon Valley SMART Corridor



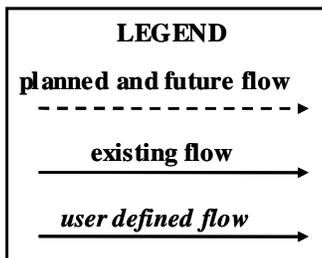
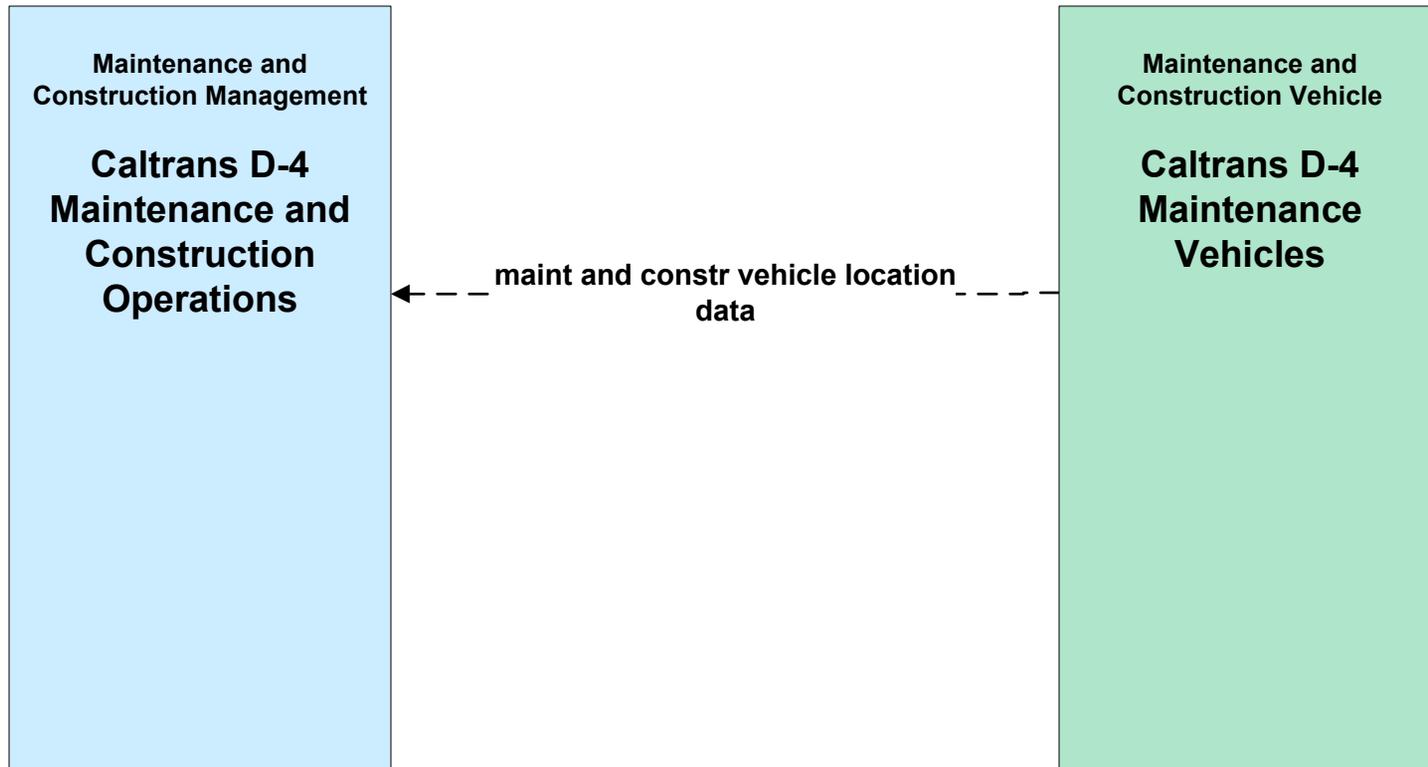
EM10 - Disaster Traveler Information SR 4 East SMART Corridor



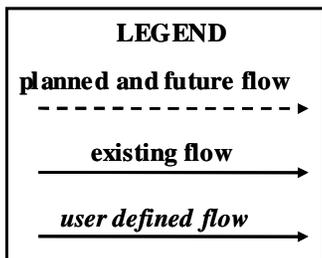
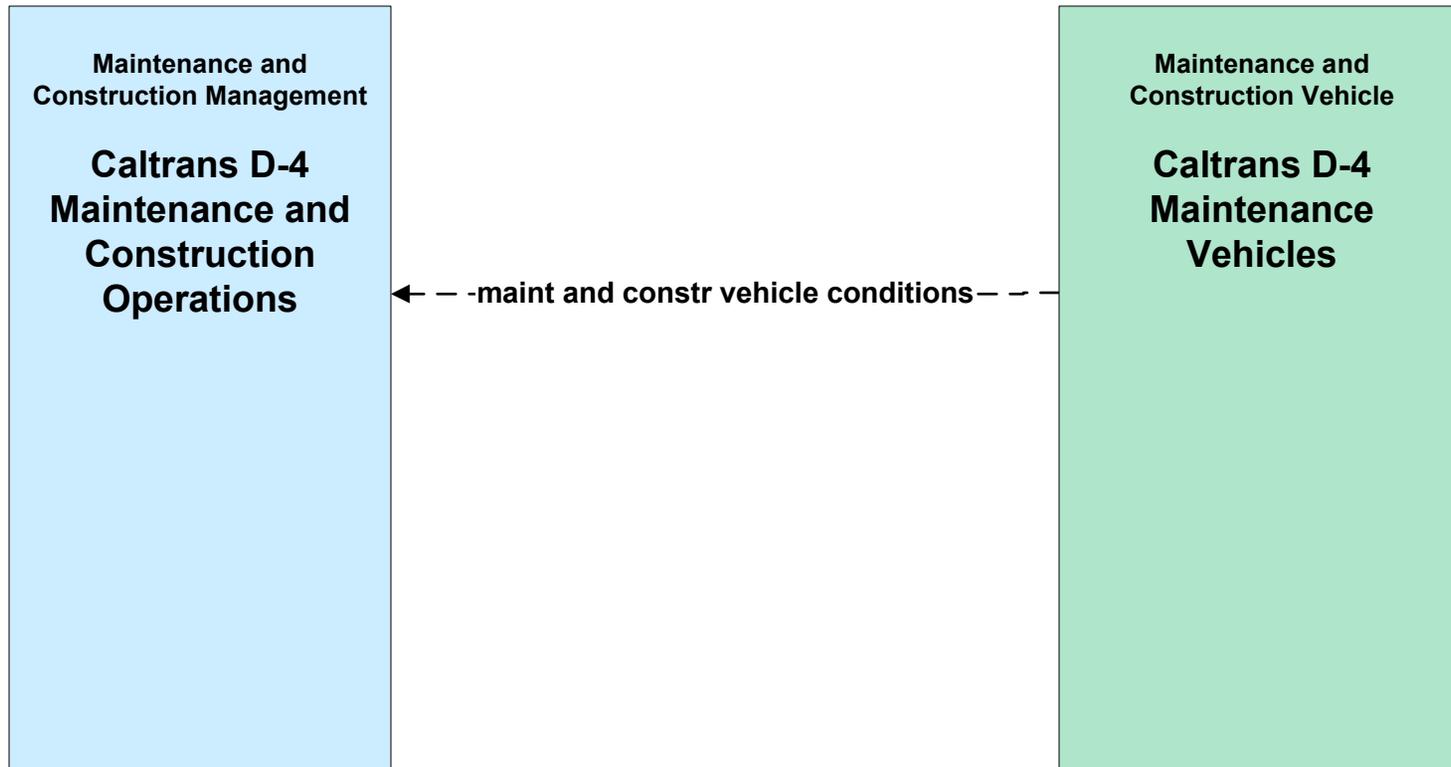
EM10 - Disaster Traveler Information Local City/County



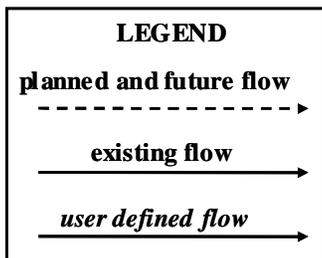
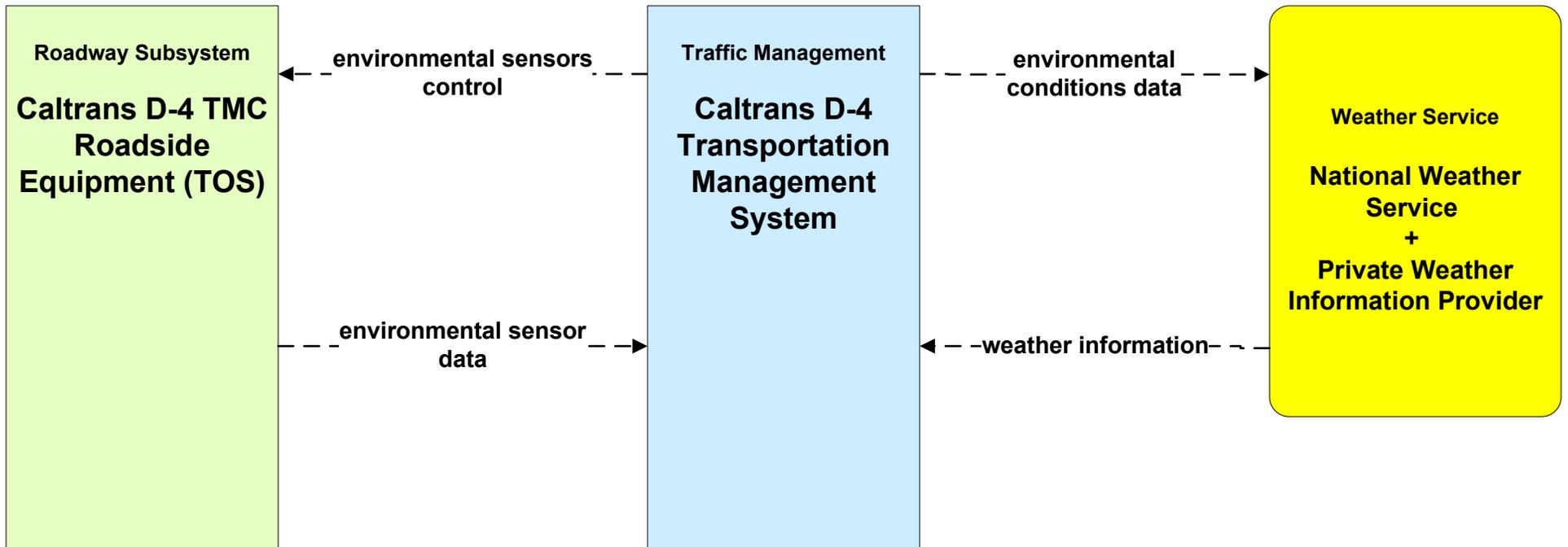
**MC01 - Maintenance and Construction Vehicle and Equipment Tracking
Caltrans**



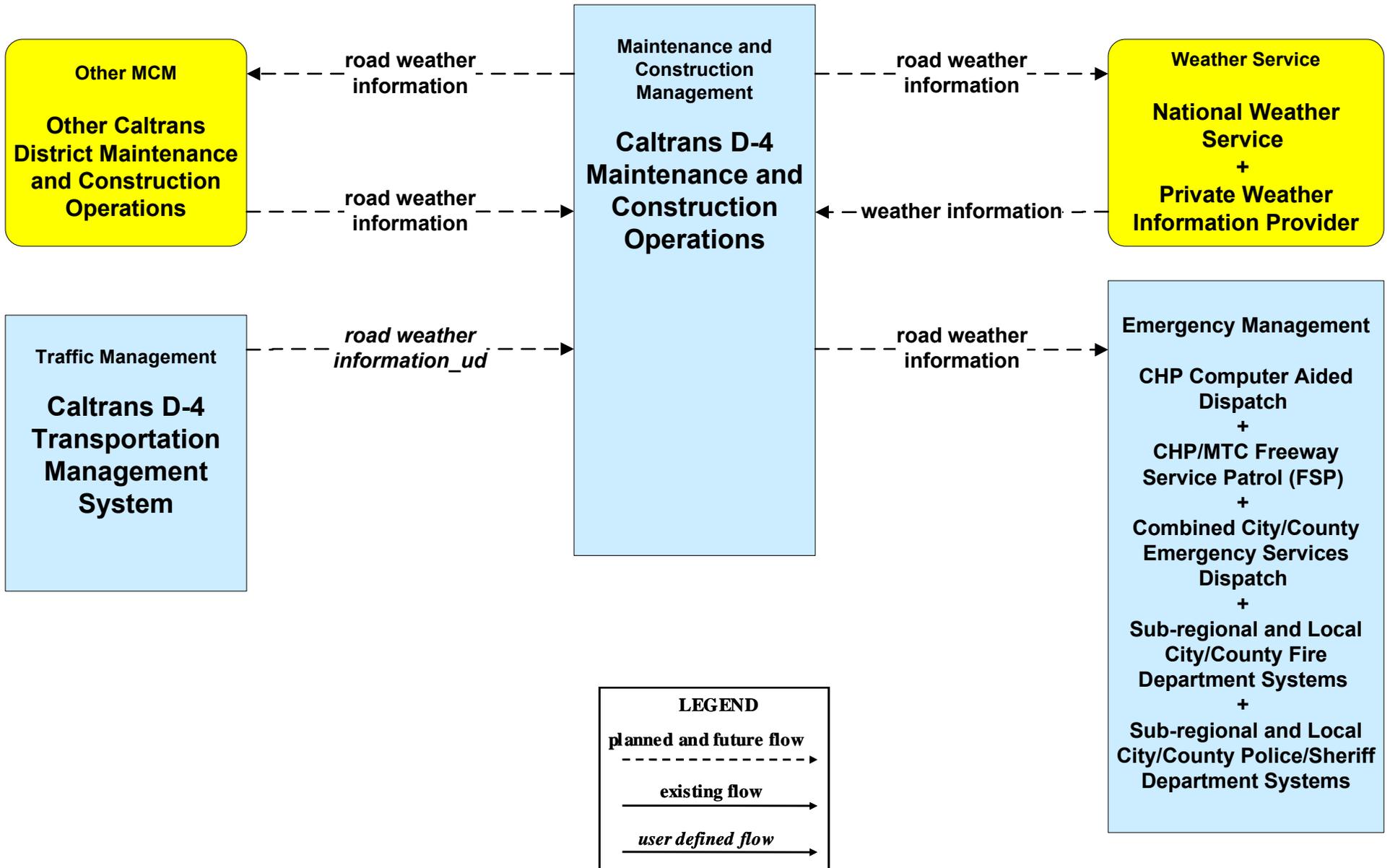
**MC02 - Maintenance and Construction Vehicle Maintenance
Caltrans**



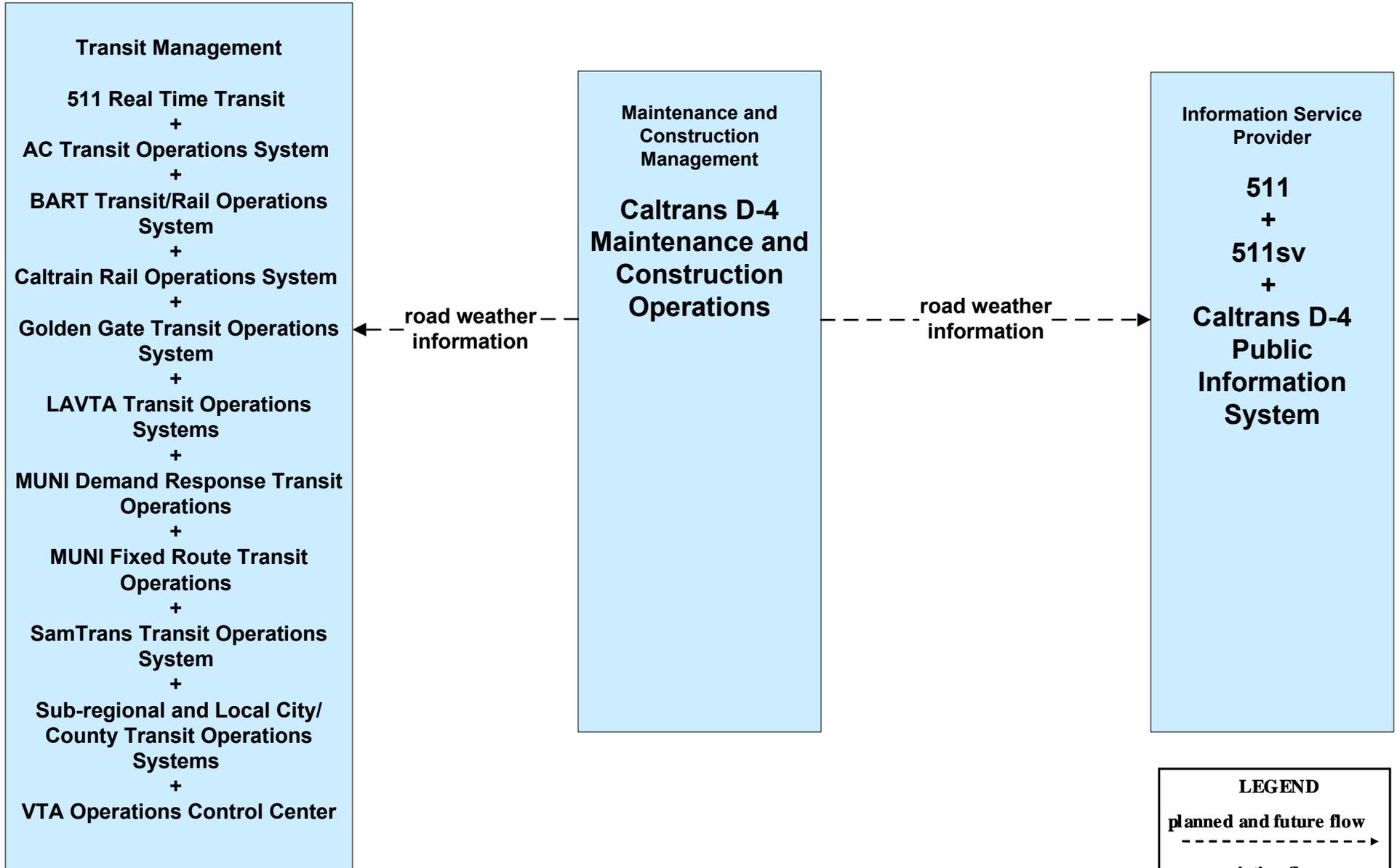
**MC03 - Road Weather Data Collection
Caltrans**



**MC04 - Weather Information Processing and Distribution
Caltrans (1 of 2)**



**MC04 - Weather Information Processing and Distribution
Caltrans (2 of 2)**



Transit Management

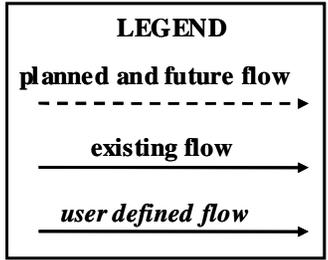
511 Real Time Transit
+
AC Transit Operations System
+
BART Transit/Rail Operations System
+
Caltrain Rail Operations System
+
Golden Gate Transit Operations System
+
LAVTA Transit Operations Systems
+
MUNI Demand Response Transit Operations
+
MUNI Fixed Route Transit Operations
+
SamTrans Transit Operations System
+
Sub-regional and Local City/County Transit Operations Systems
+
VTA Operations Control Center

Maintenance and Construction Management

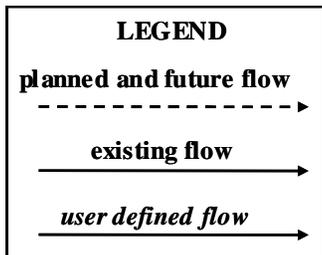
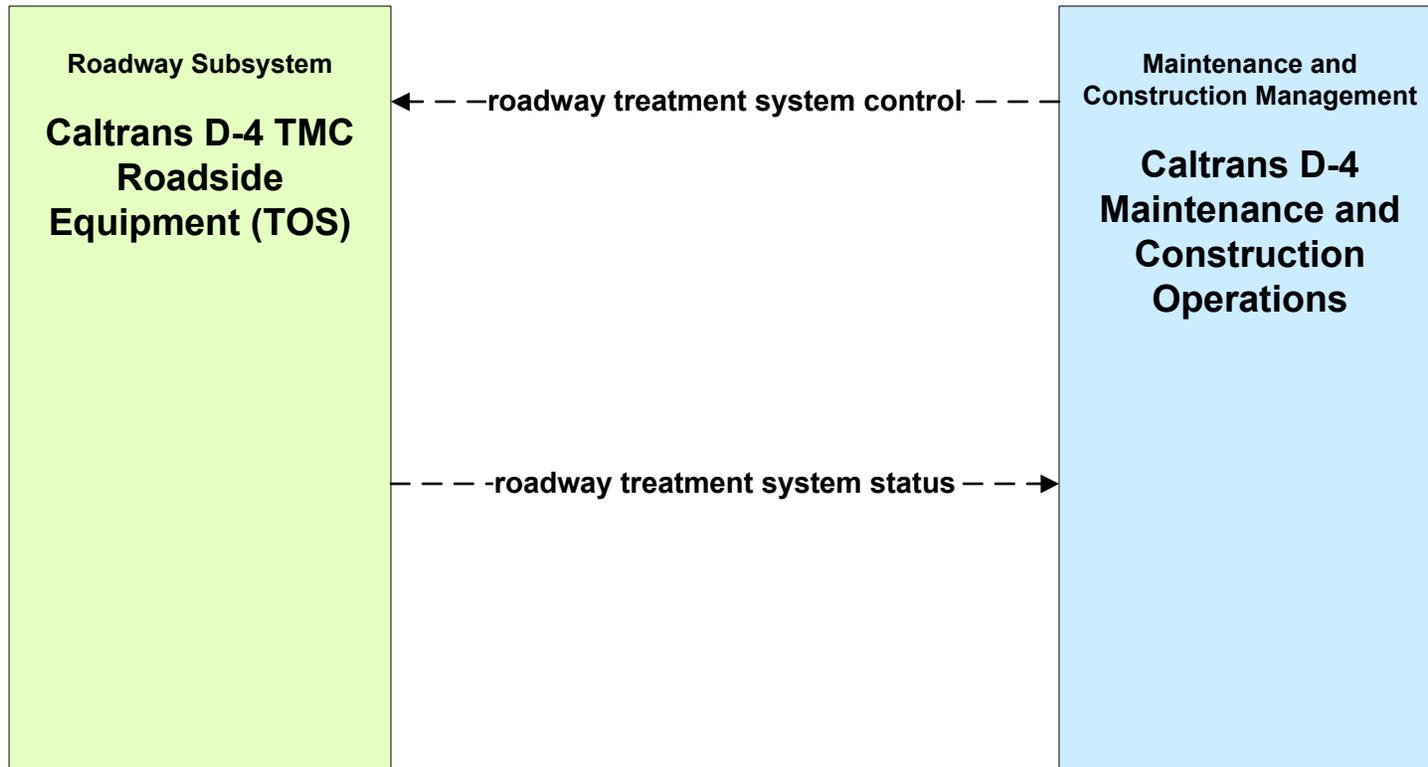
Caltrans D-4 Maintenance and Construction Operations

Information Service Provider

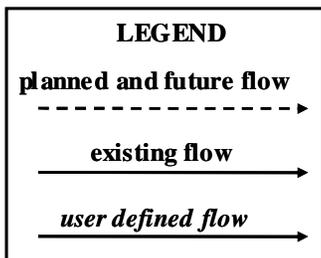
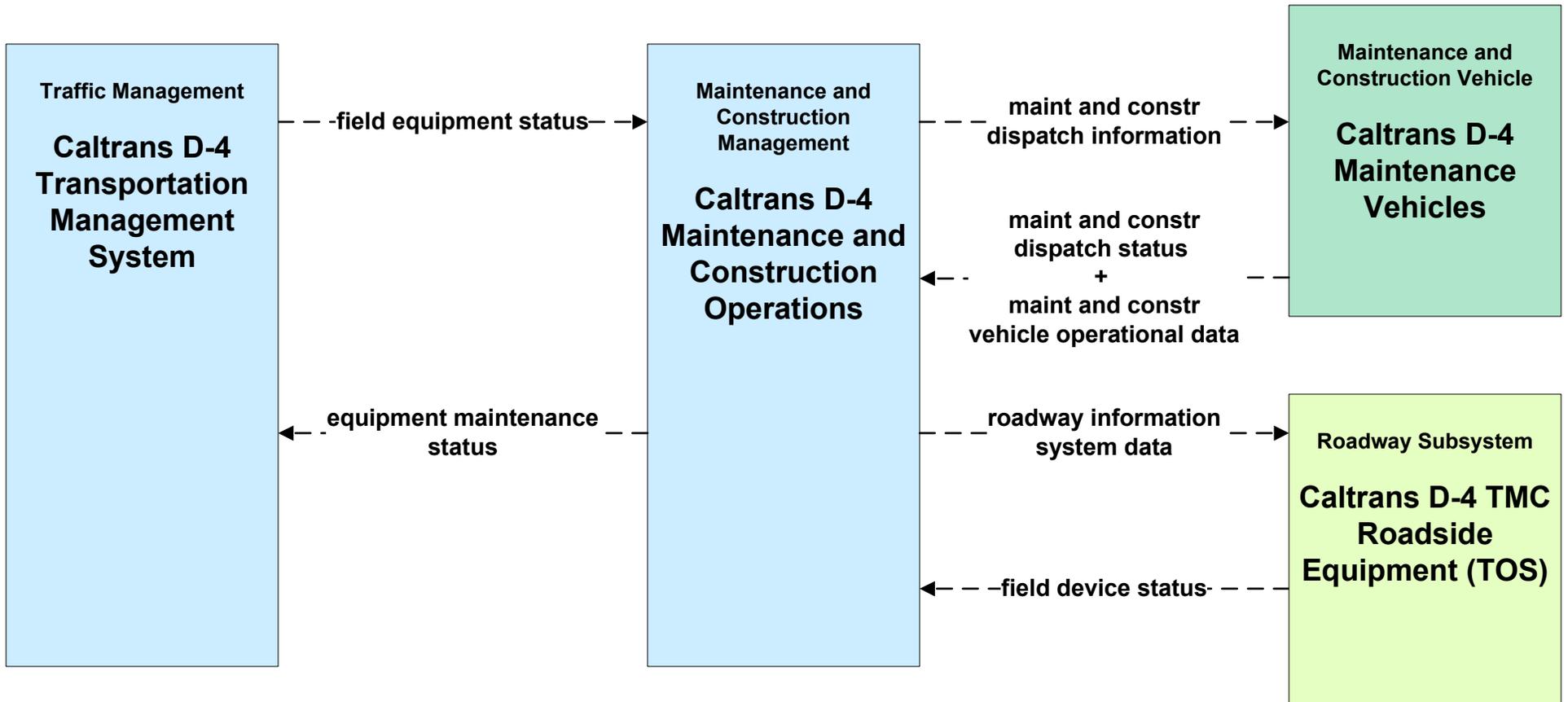
511
+
511sv
+
Caltrans D-4 Public Information System



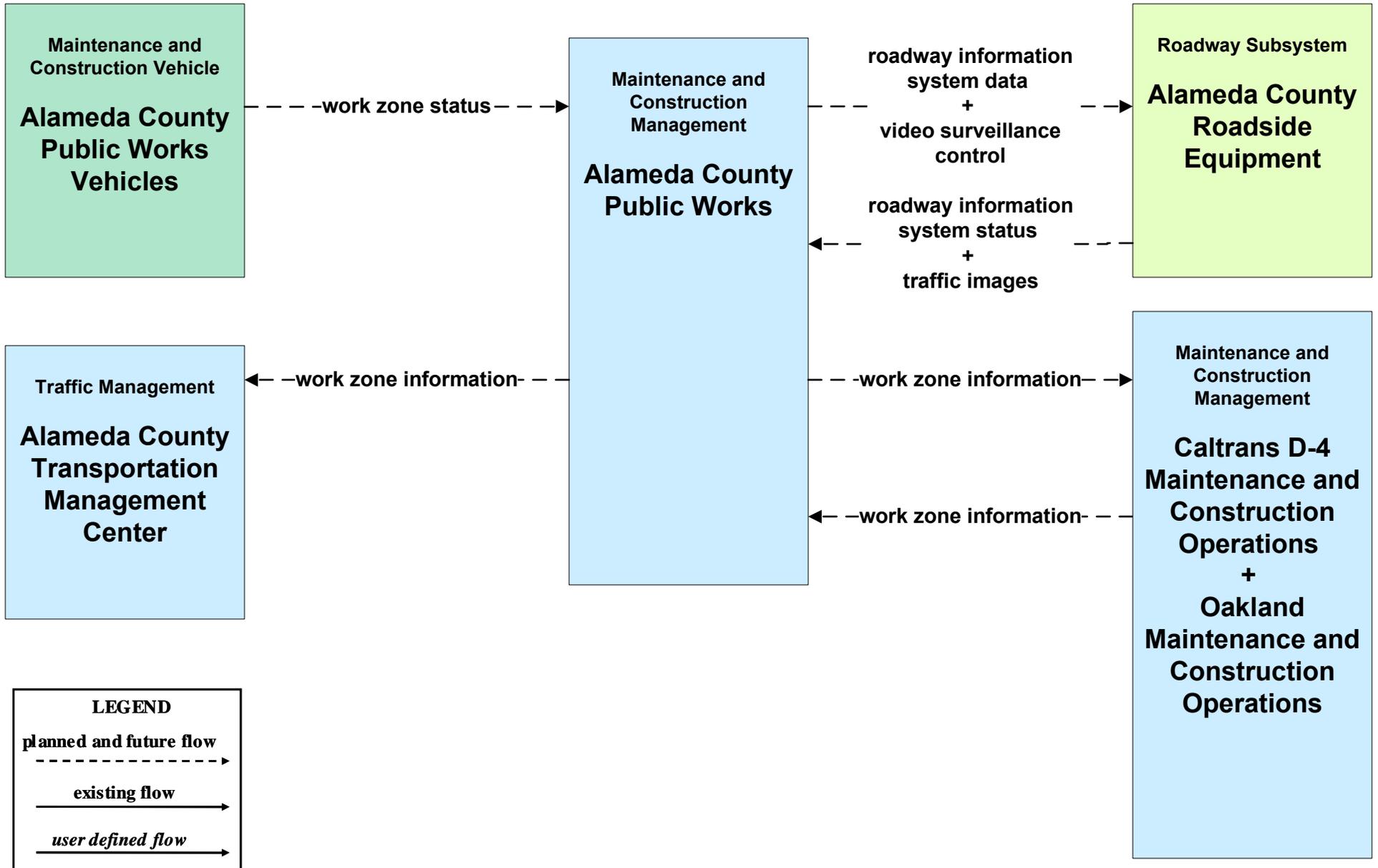
**MC05 - Roadway Automated Treatment
Caltrans**



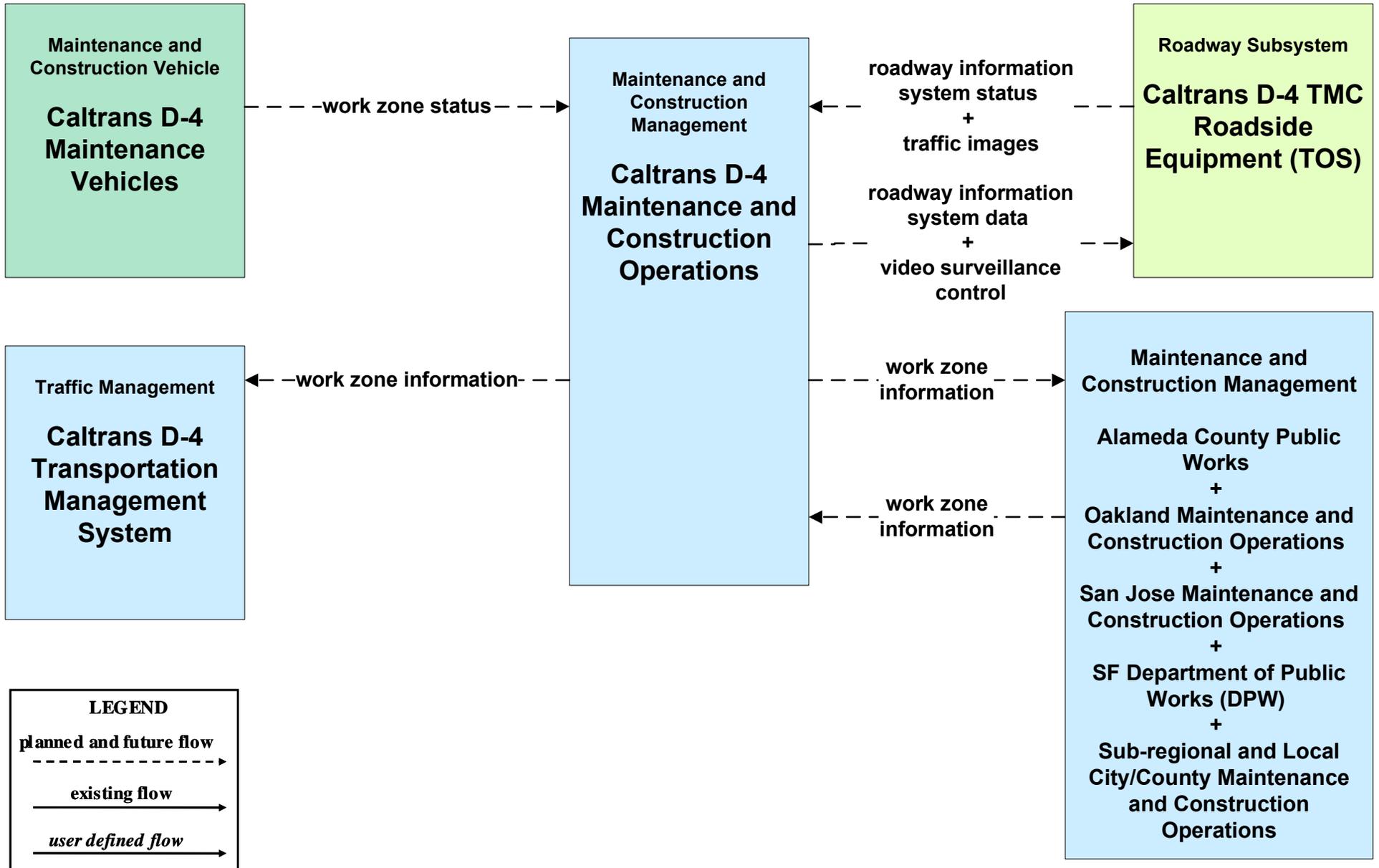
**MC07 - Roadway Maintenance and Construction
Caltrans**



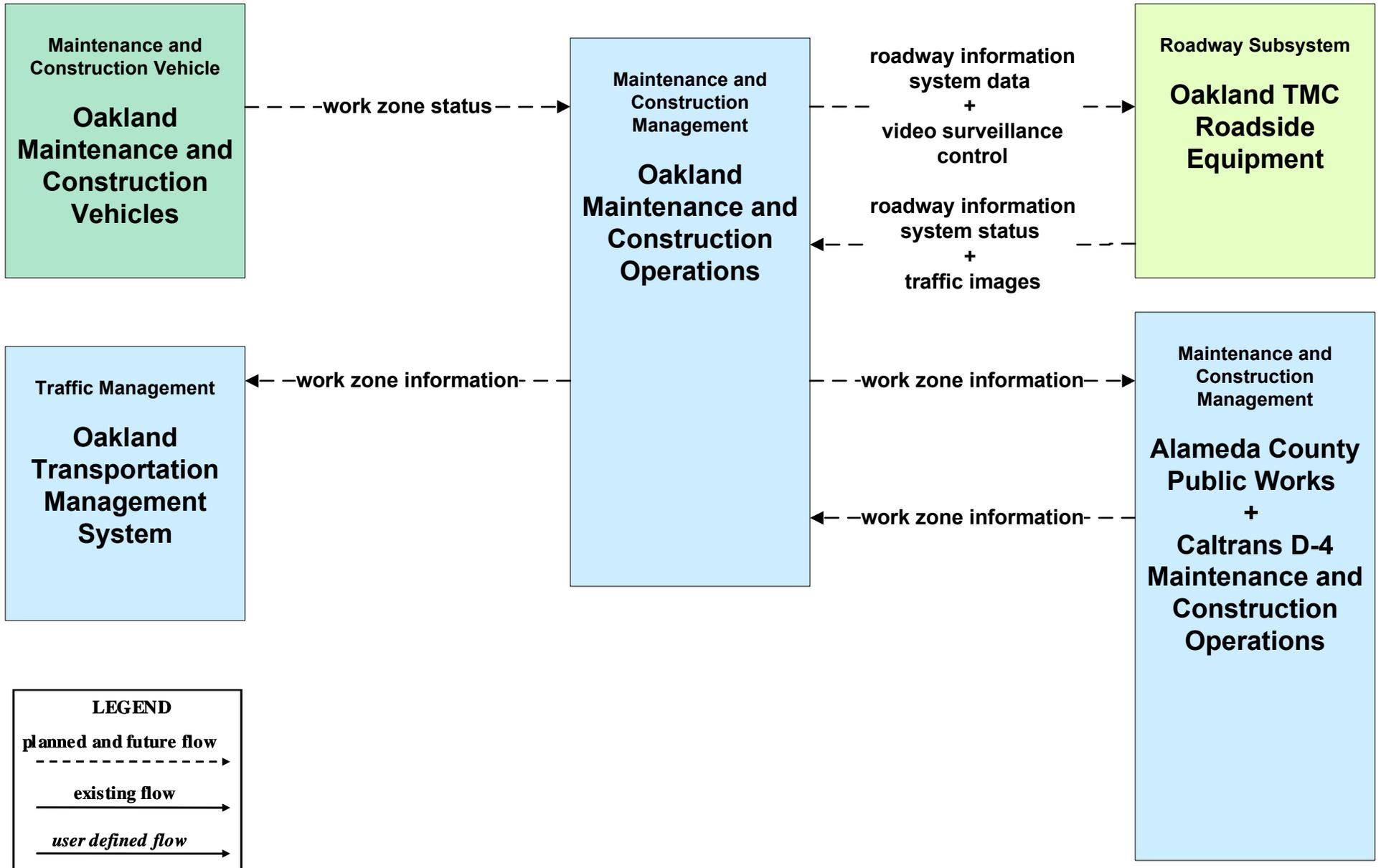
**MC08 - Work Zone Management
Alameda County**



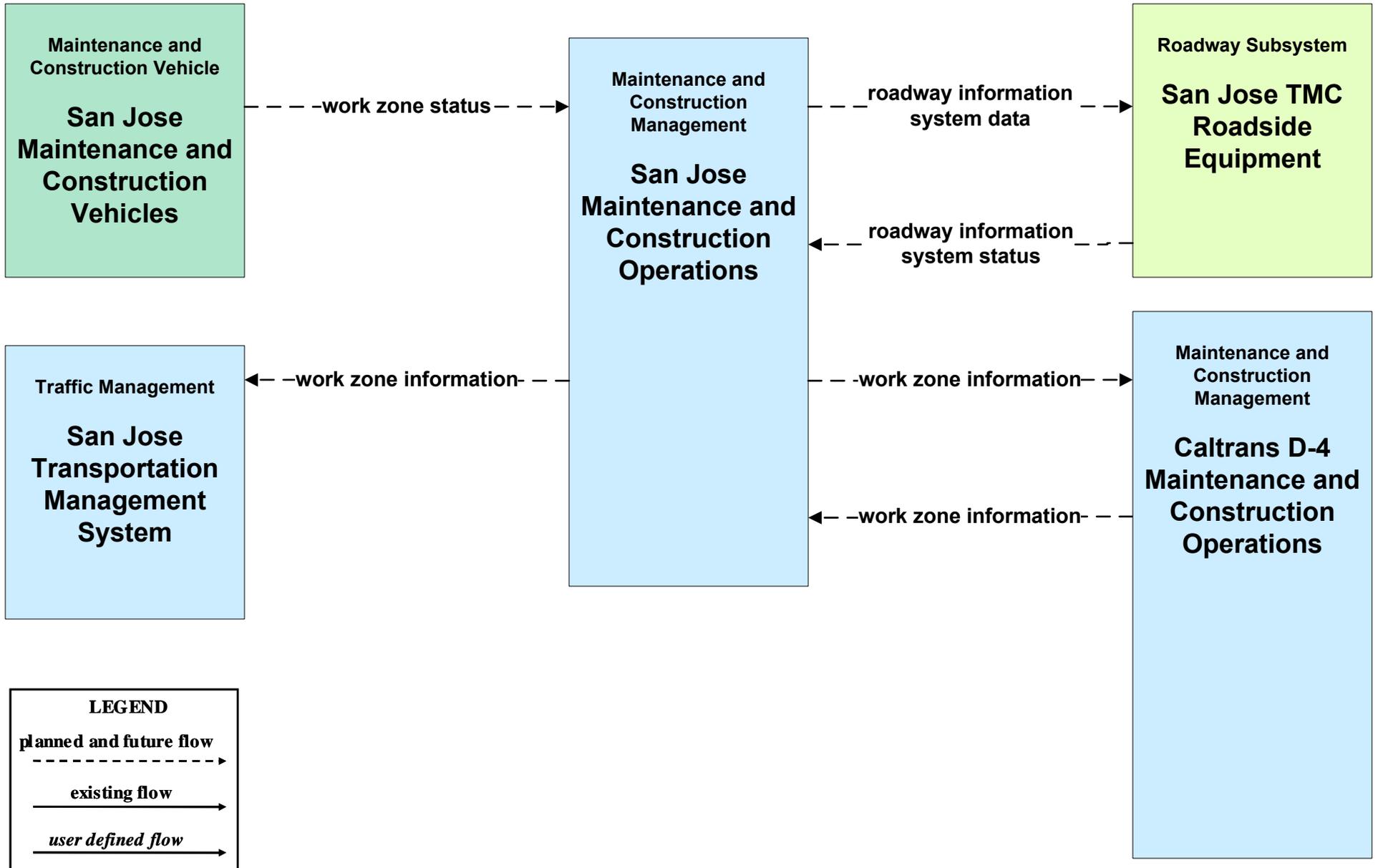
**MC08 - Work Zone Management
Caltrans**



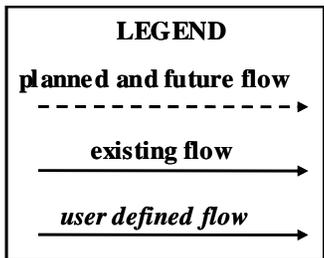
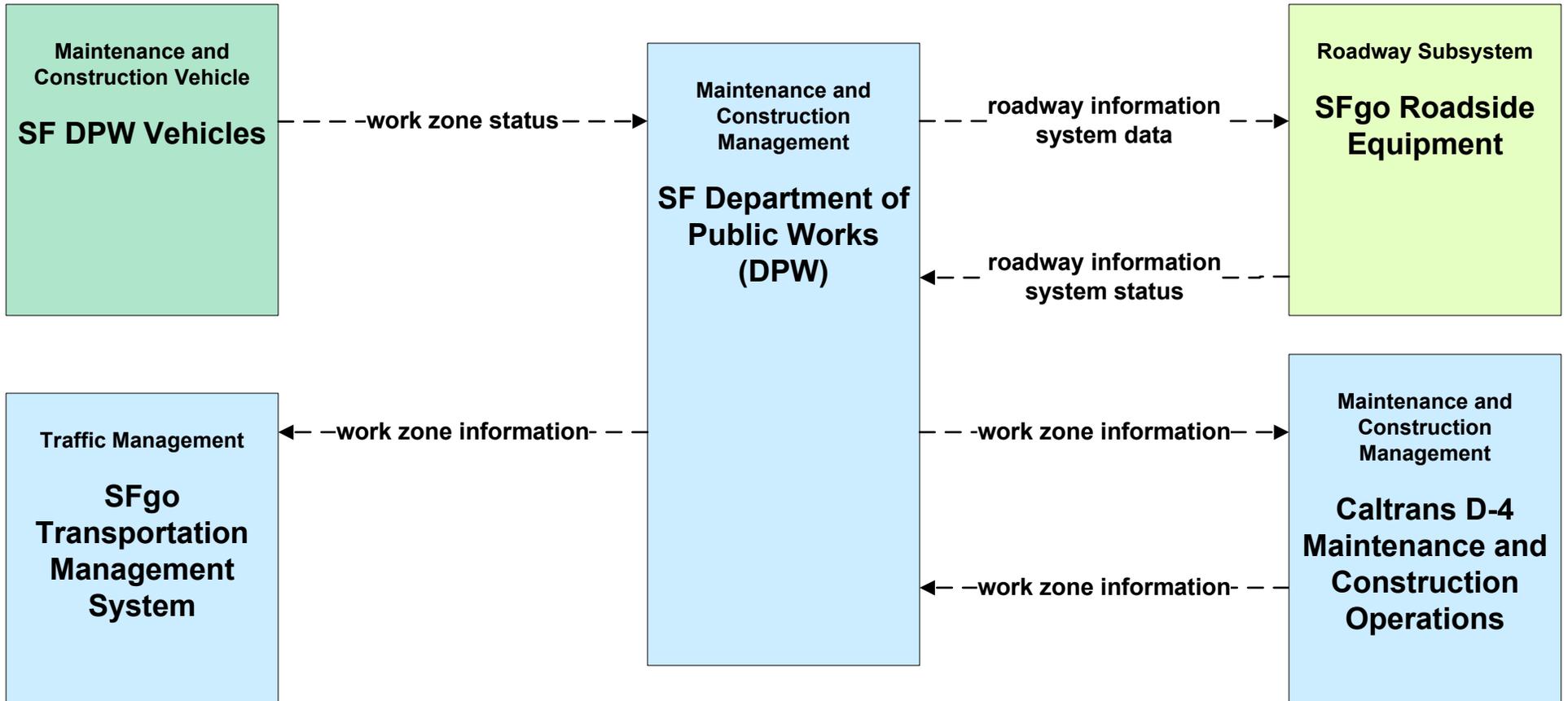
**MC08 - Work Zone Management
City of Oakland**



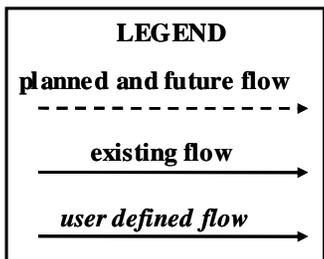
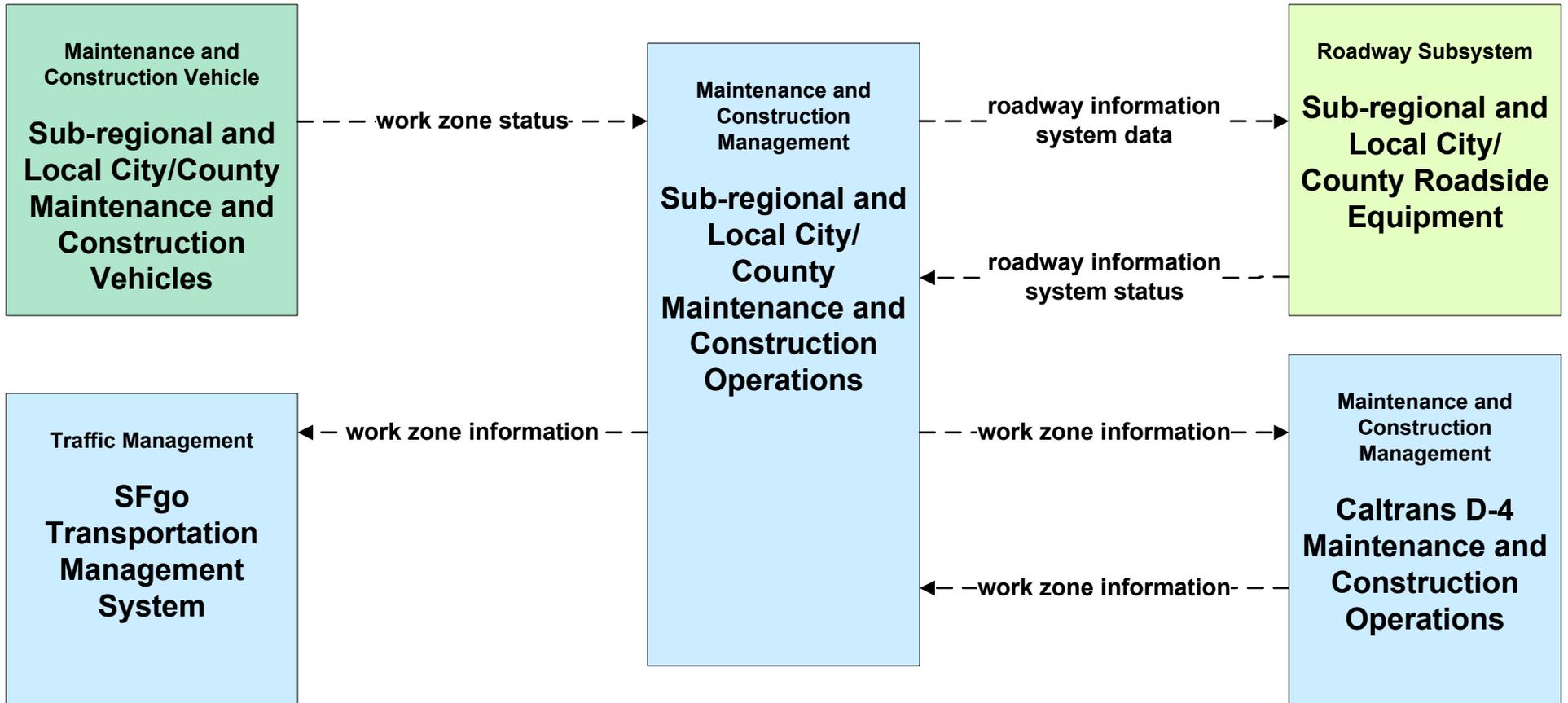
**MC08 - Work Zone Management
San Jose**



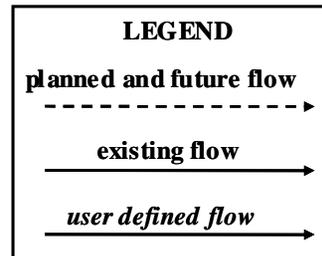
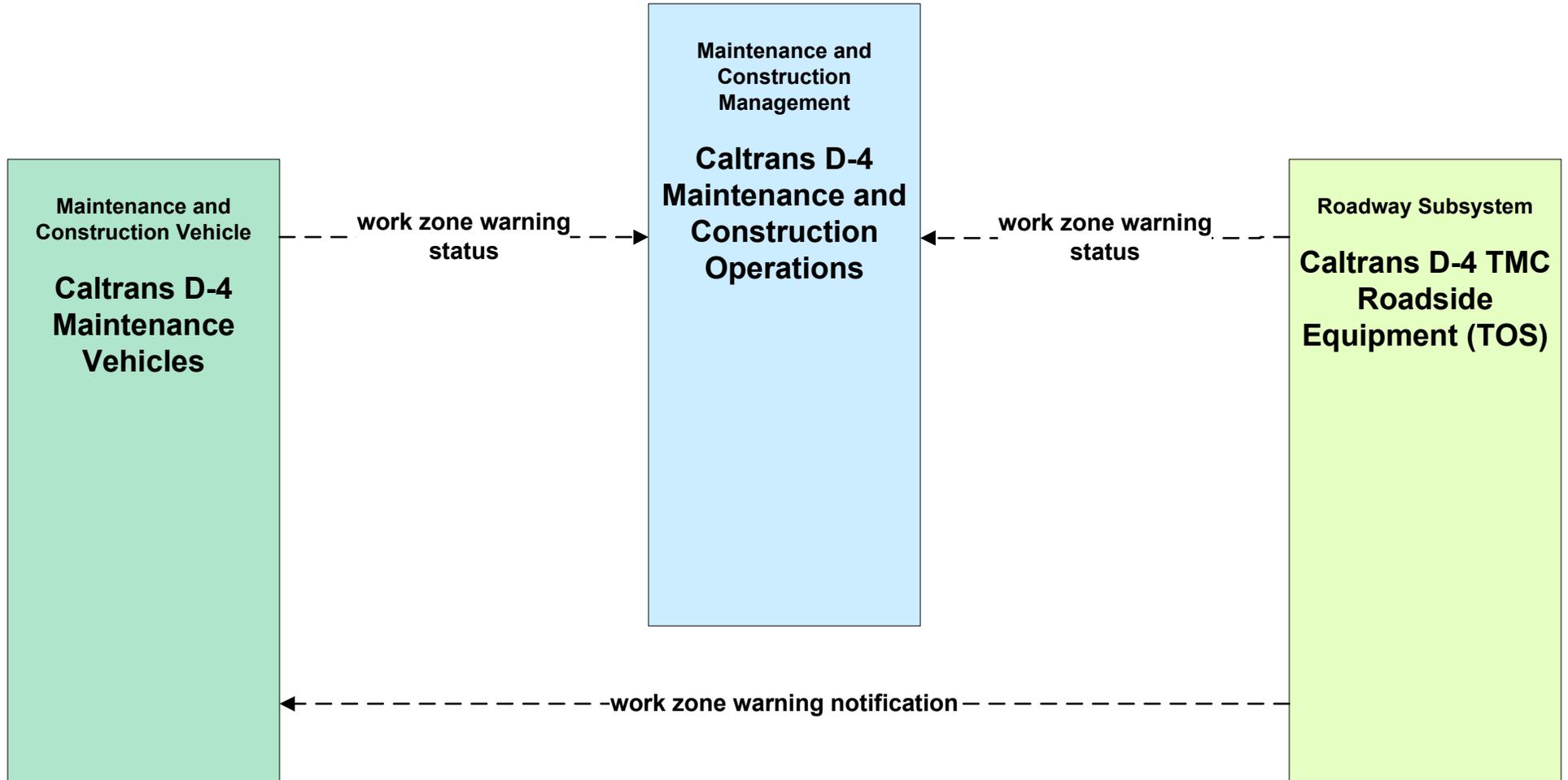
**MC08 - Work Zone Management
SF DPW**



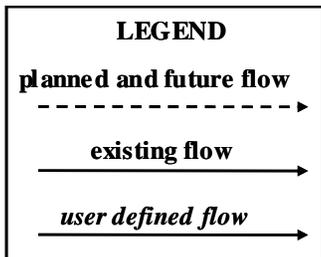
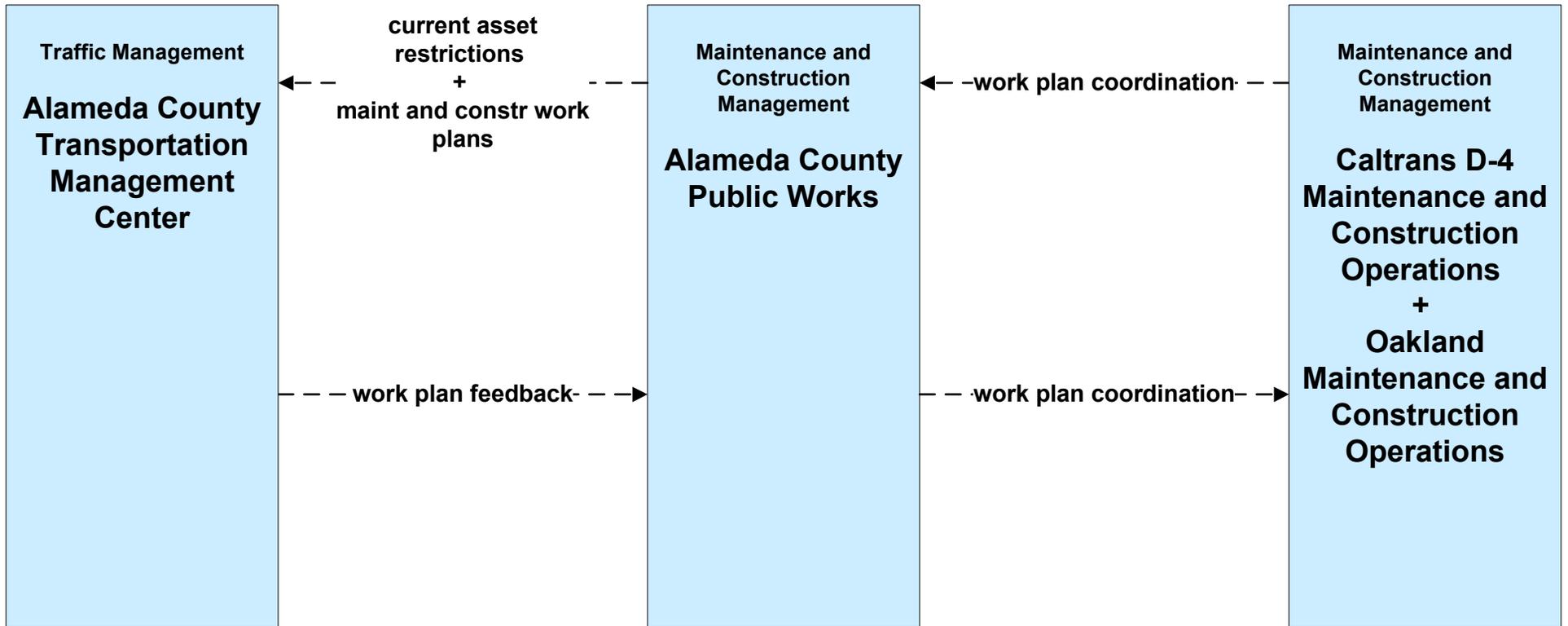
**MC08 - Work Zone Management
Local City/County**



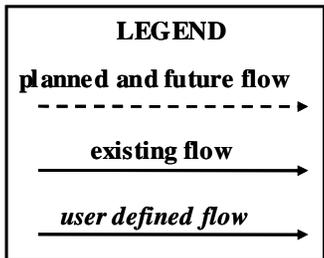
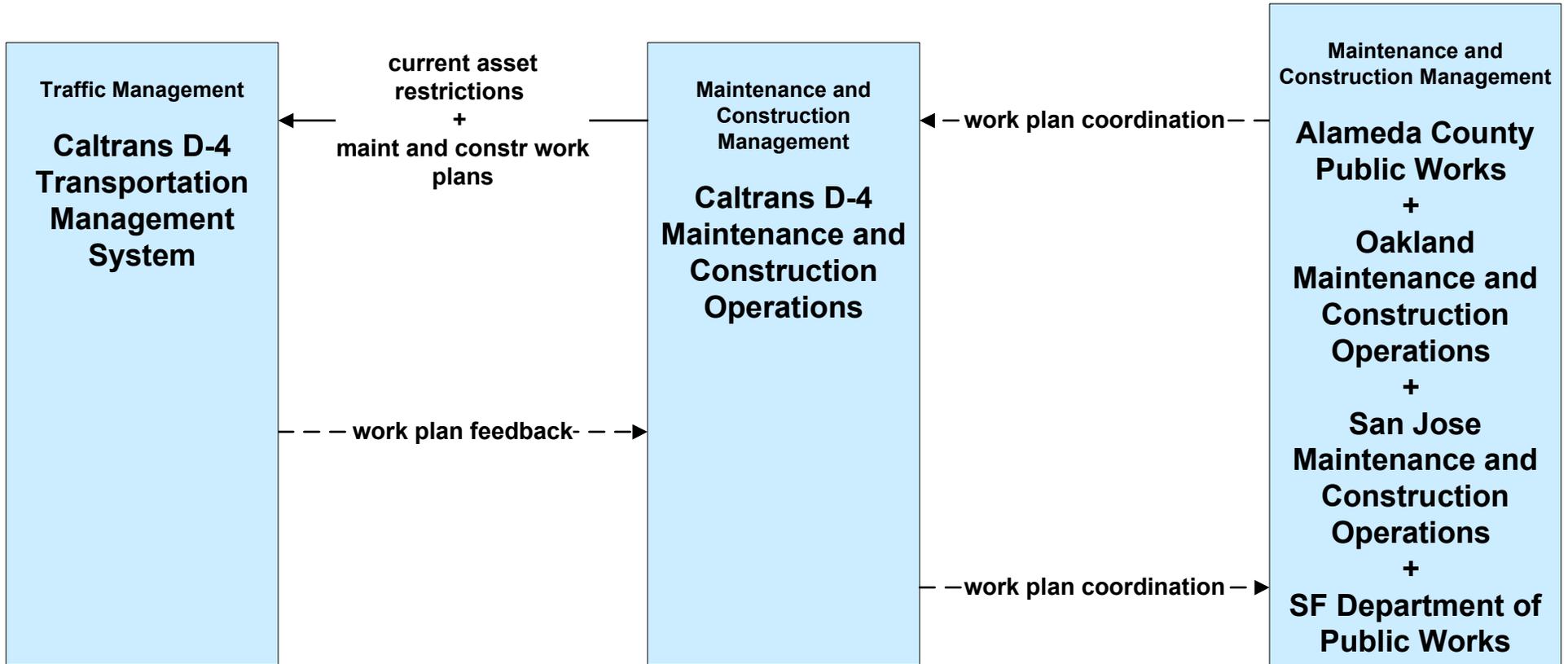
**MC09 - Work Zone Safety Monitoring
Caltrans**



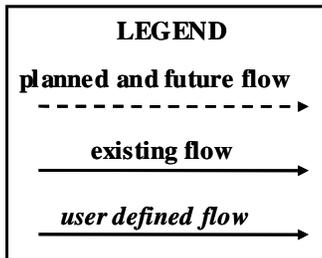
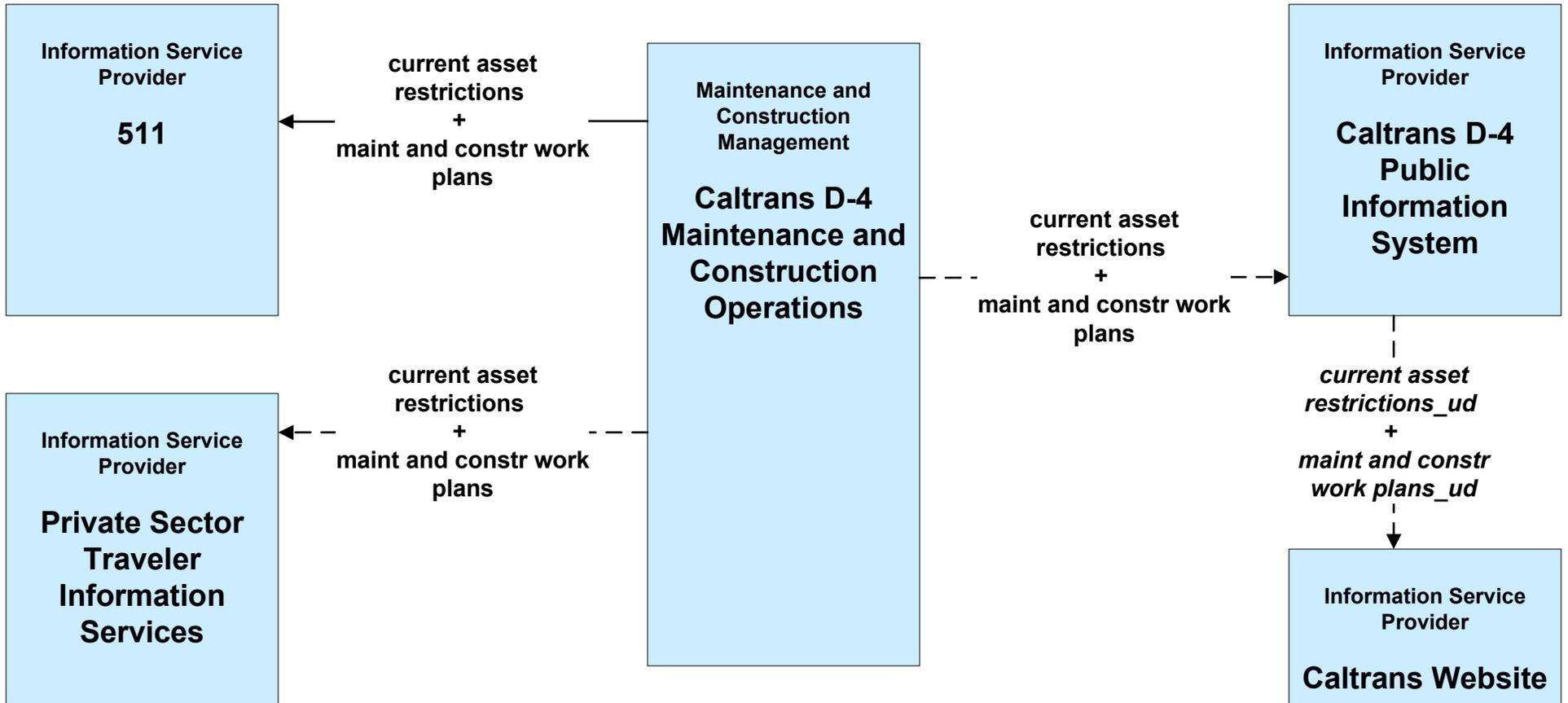
**MC10 - Maintenance and Construction Activity Coordination
Alameda County (1 of 2)**



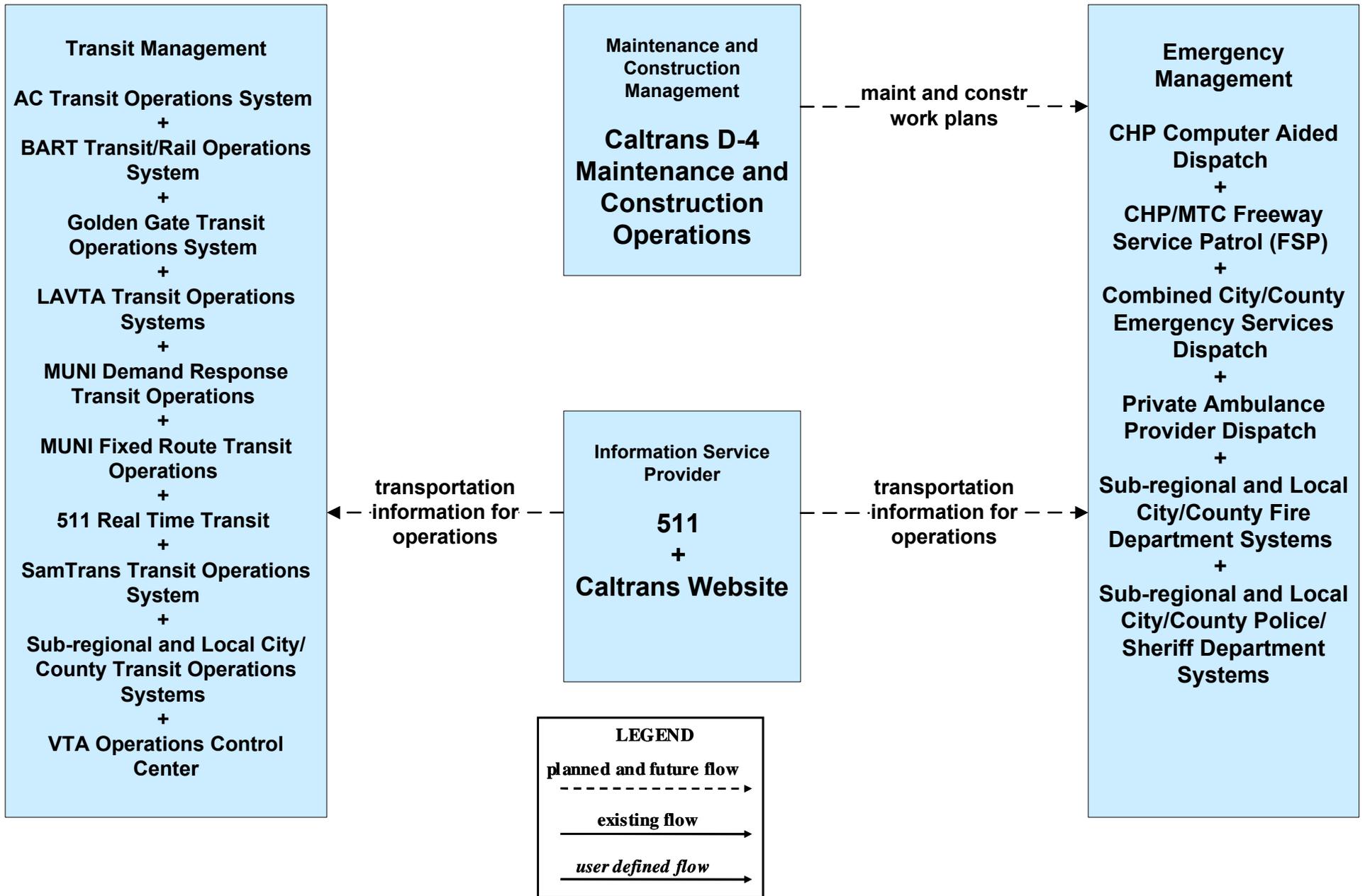
**MC10 - Maintenance and Construction Activity Coordination
Activity Coordination - Caltrans (1 of 3)**



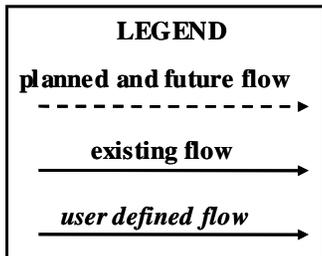
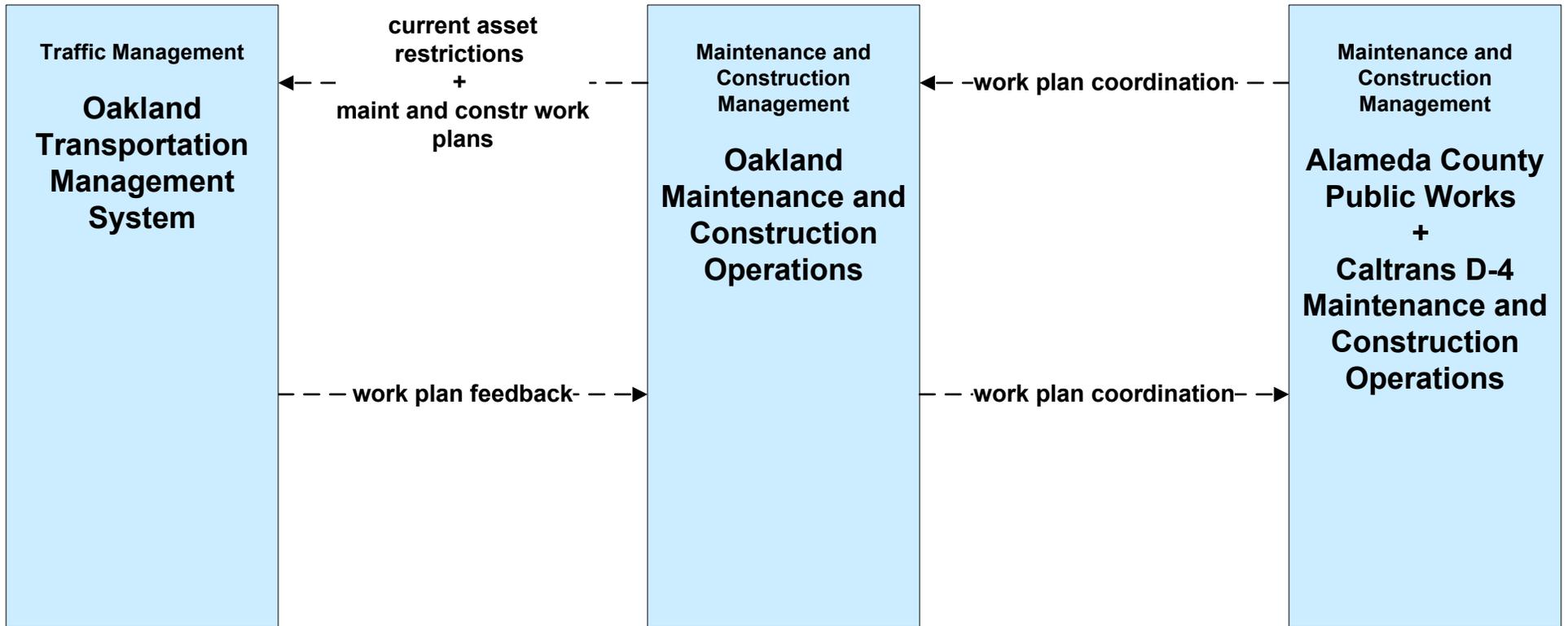
MC10 - Maintenance and Construction Activity Coordination
Activity Coordination - Caltrans (2 of 3)



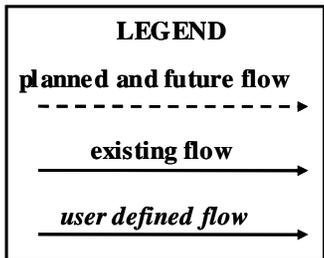
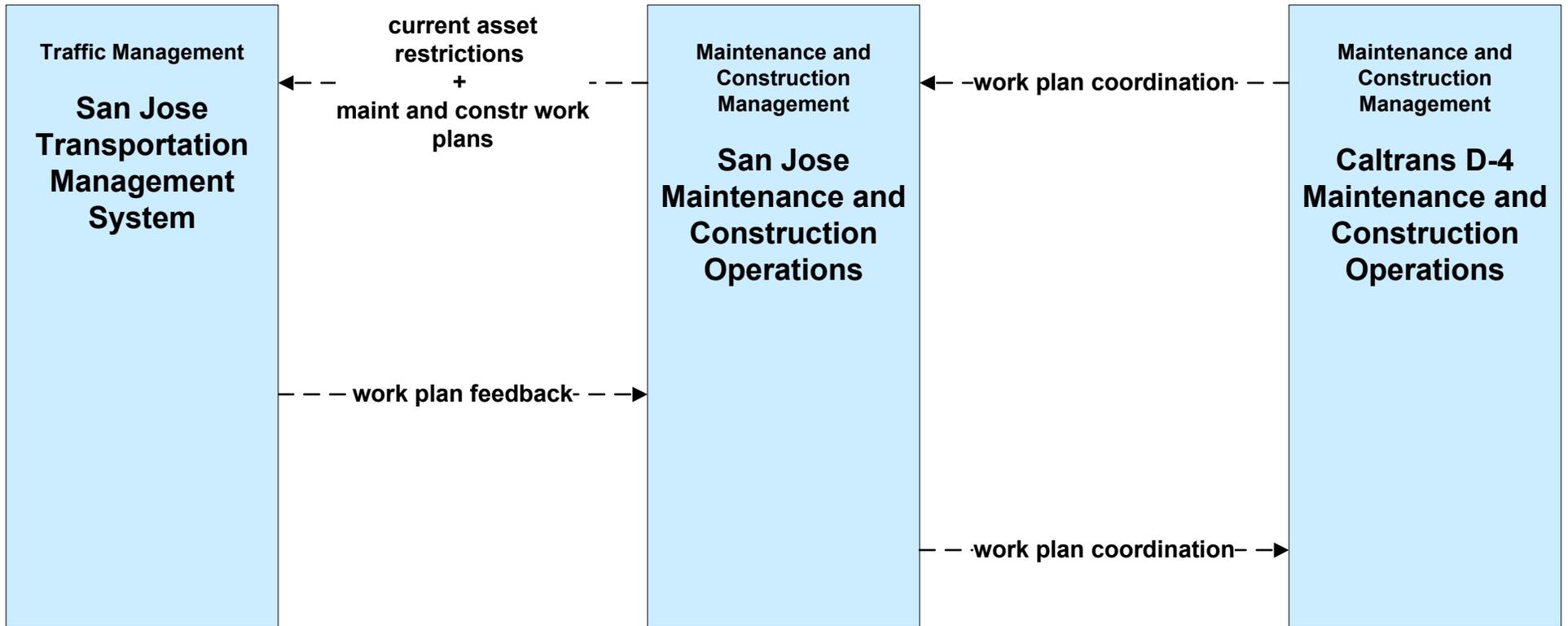
MC10 - Maintenance and Construction Activity Coordination
Activity Coordination - MTC (3 of 3)



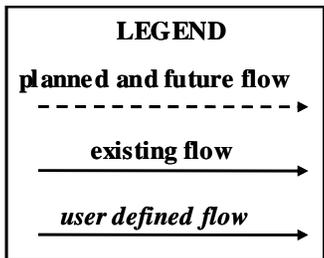
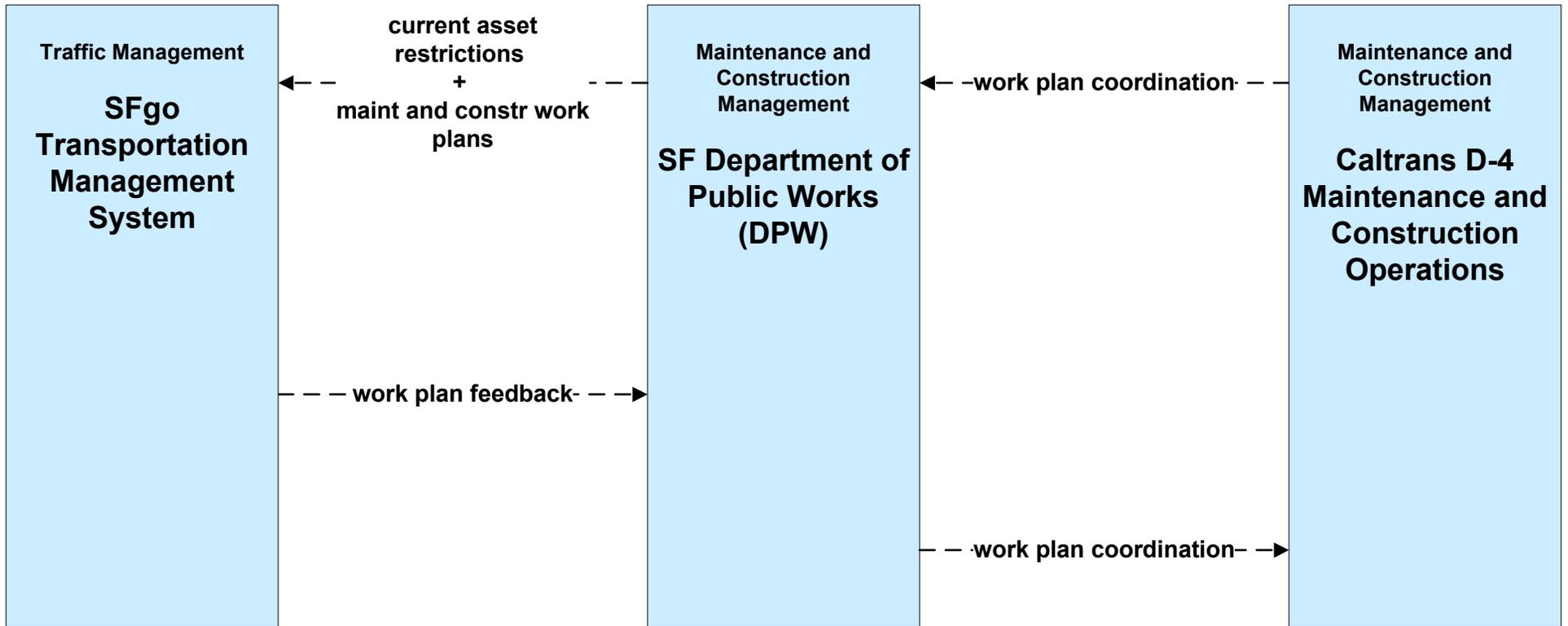
**MC10 - Maintenance and Construction Activity Coordination
City of Oakland (1 of 2)**



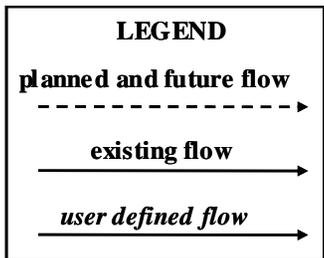
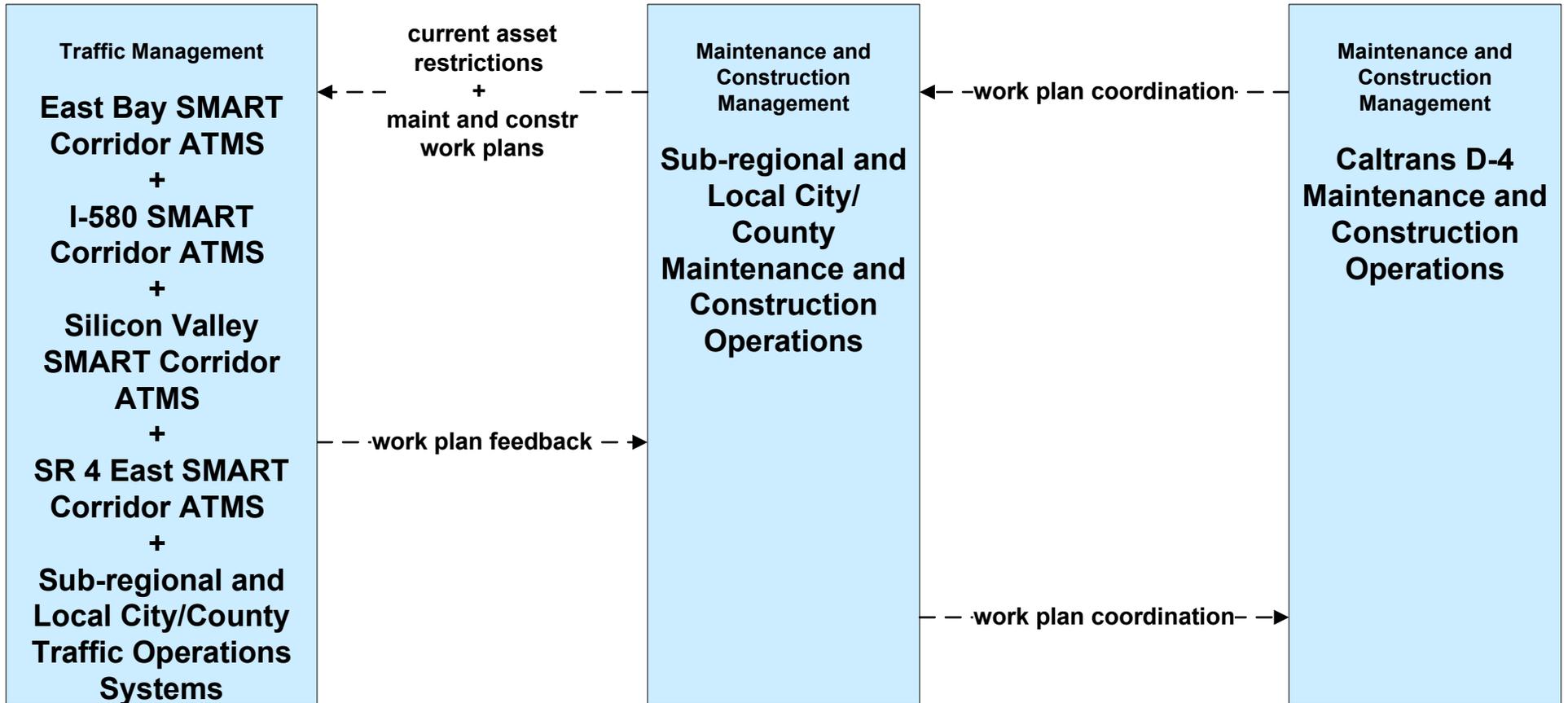
**MC10 - Maintenance and Construction Activity Coordination
City of San Jose (1 of 2)**



**MC10 - Maintenance and Construction Activity Coordination
City of San Francisco (1 of 2)**



**MC10 - Maintenance and Construction Activity Coordination
Local City/County (1 of 2)**



MC12 - Infrastructure Monitoring Caltrans

