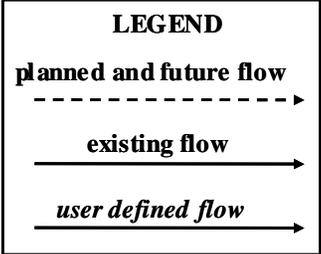
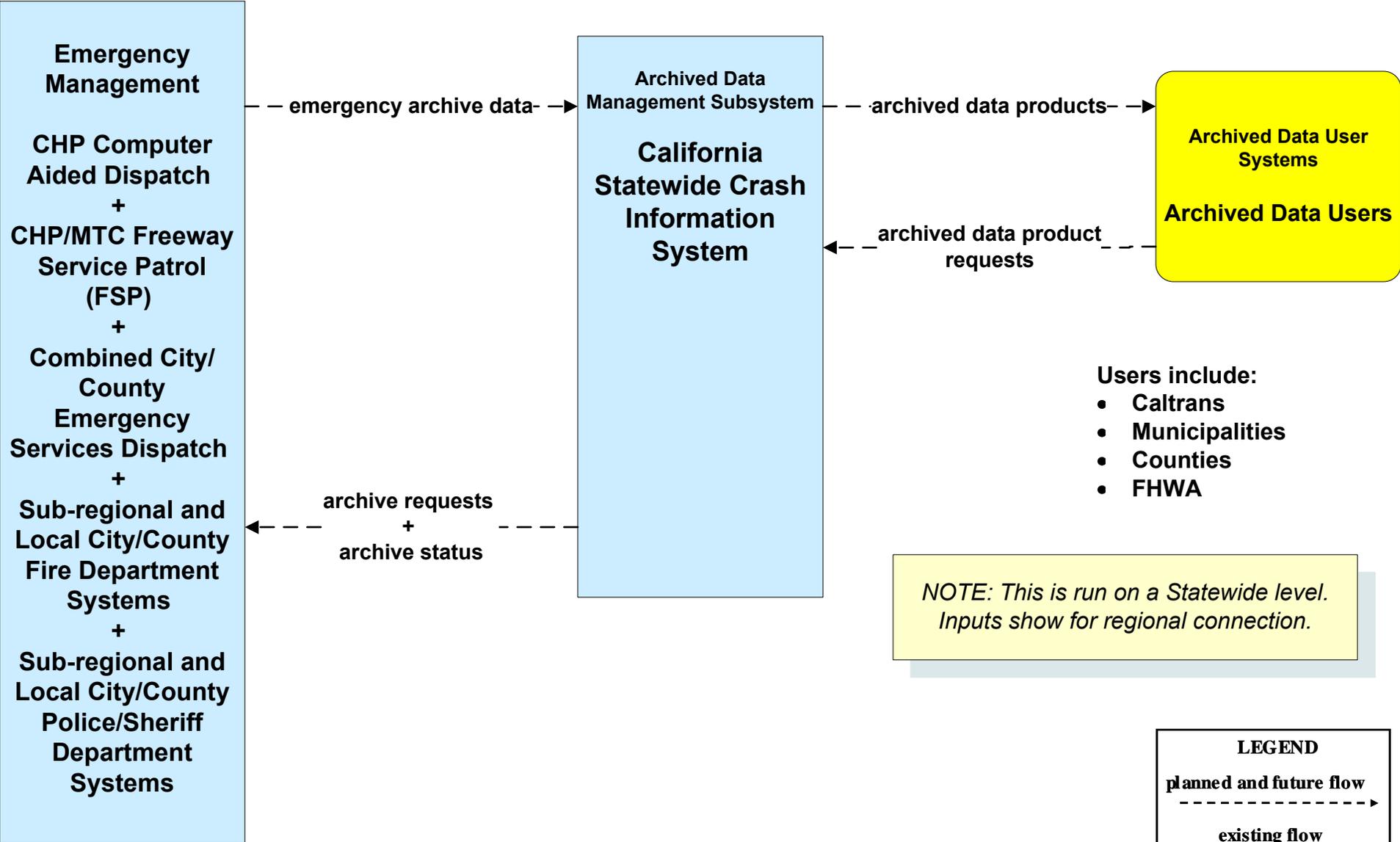
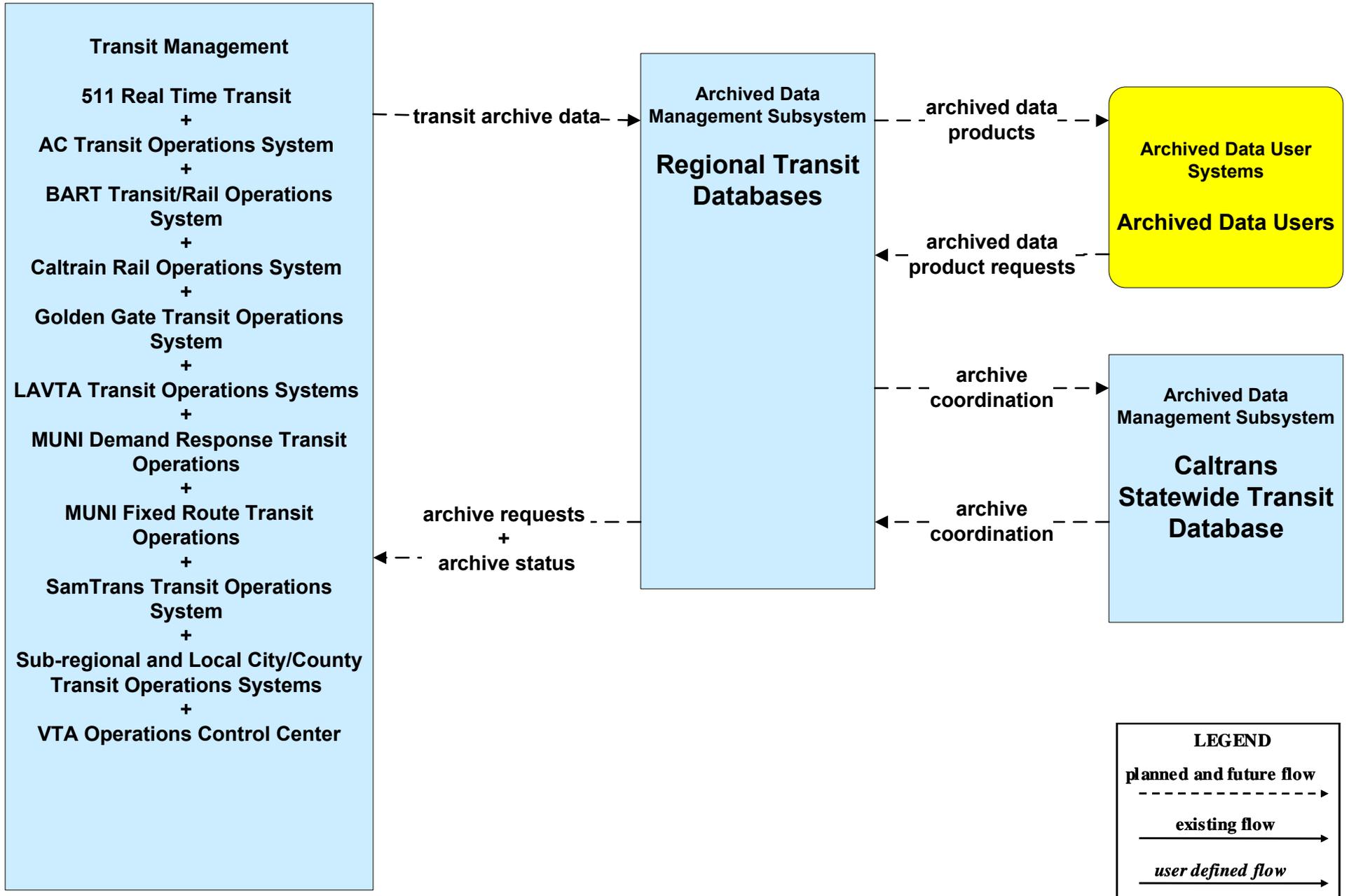


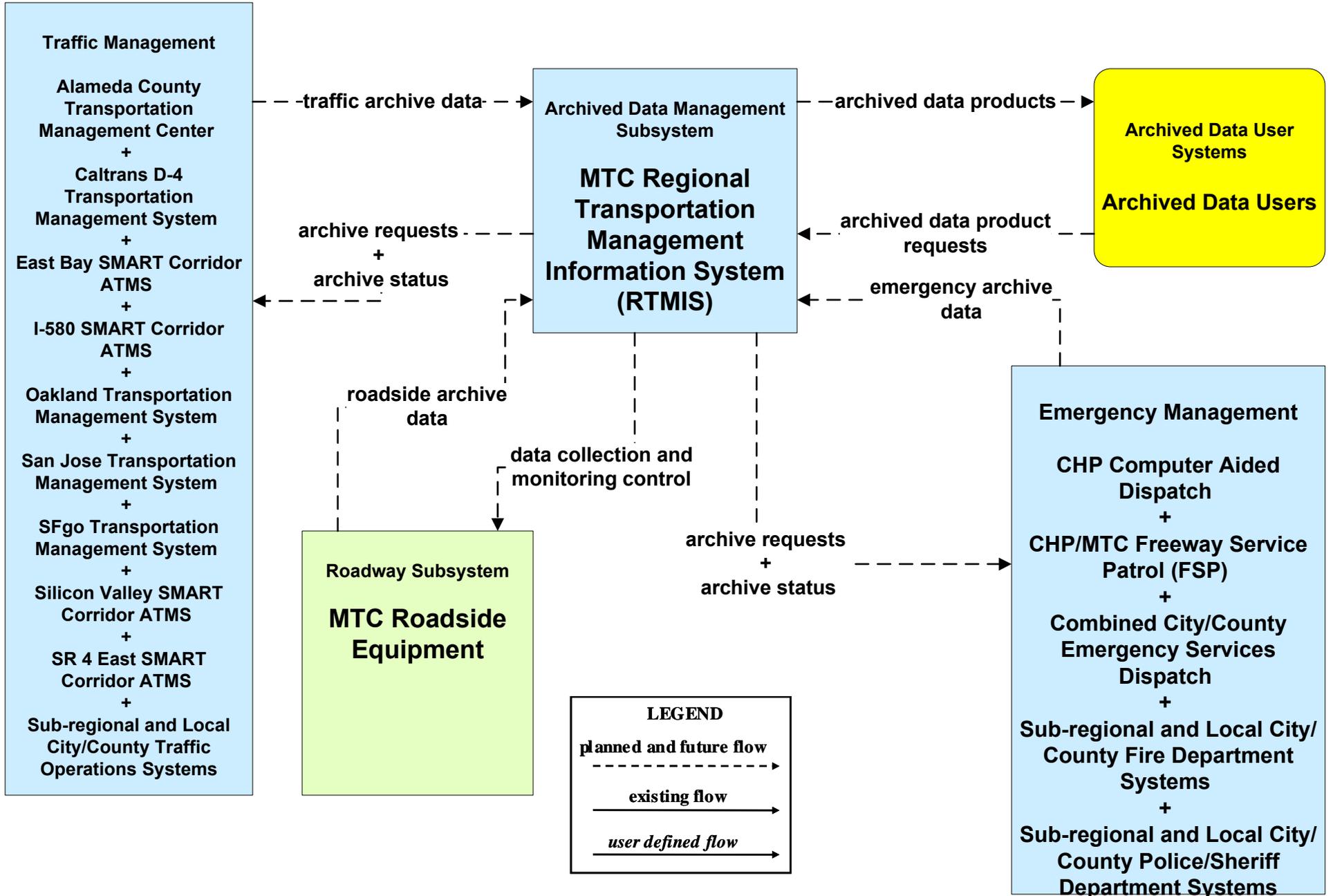
**AD1 - ITS Data Mart
Caltrans Statewide Crash Information System**



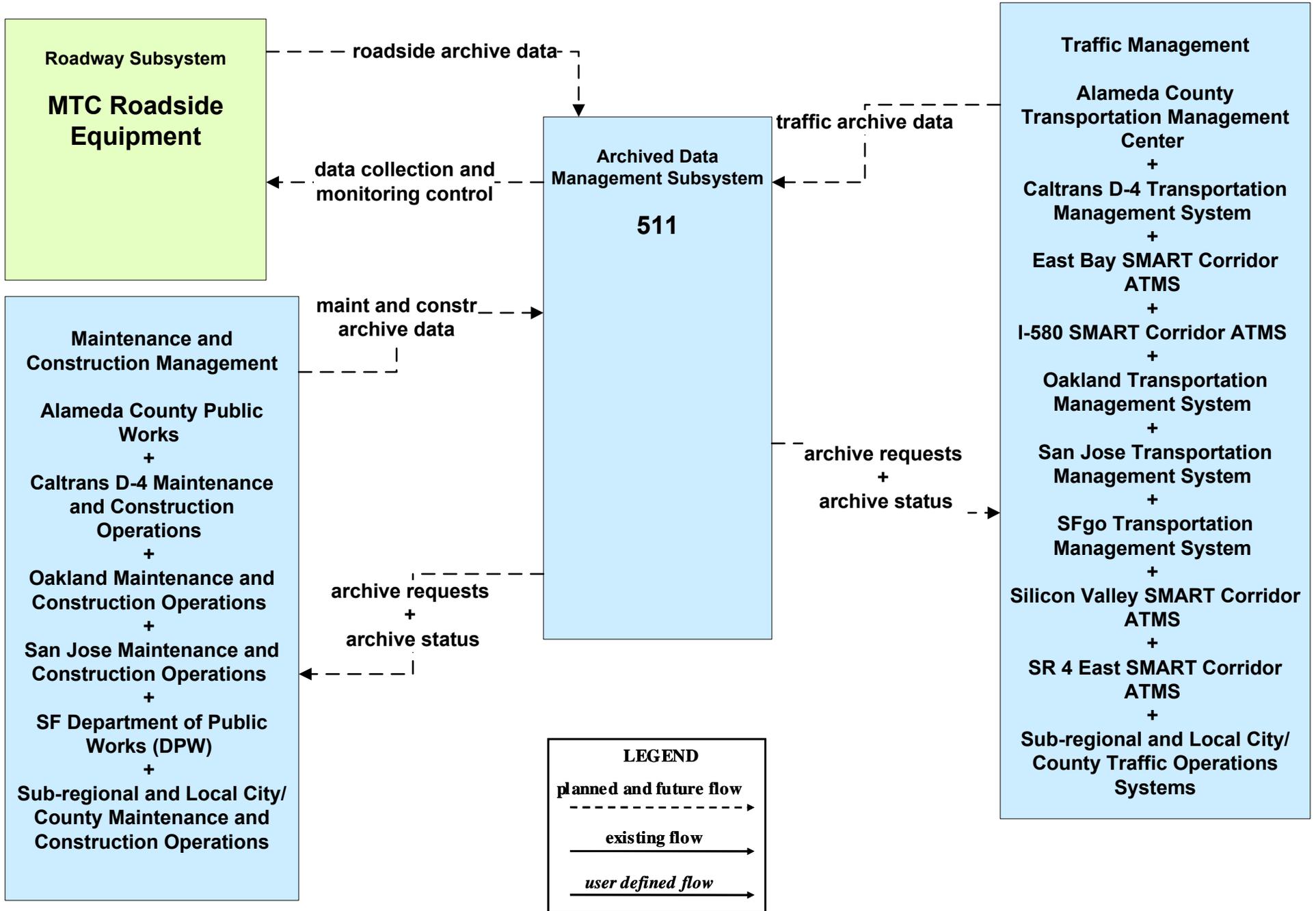
AD1 - ITS Data Mart Caltrans Regional Transit Databases



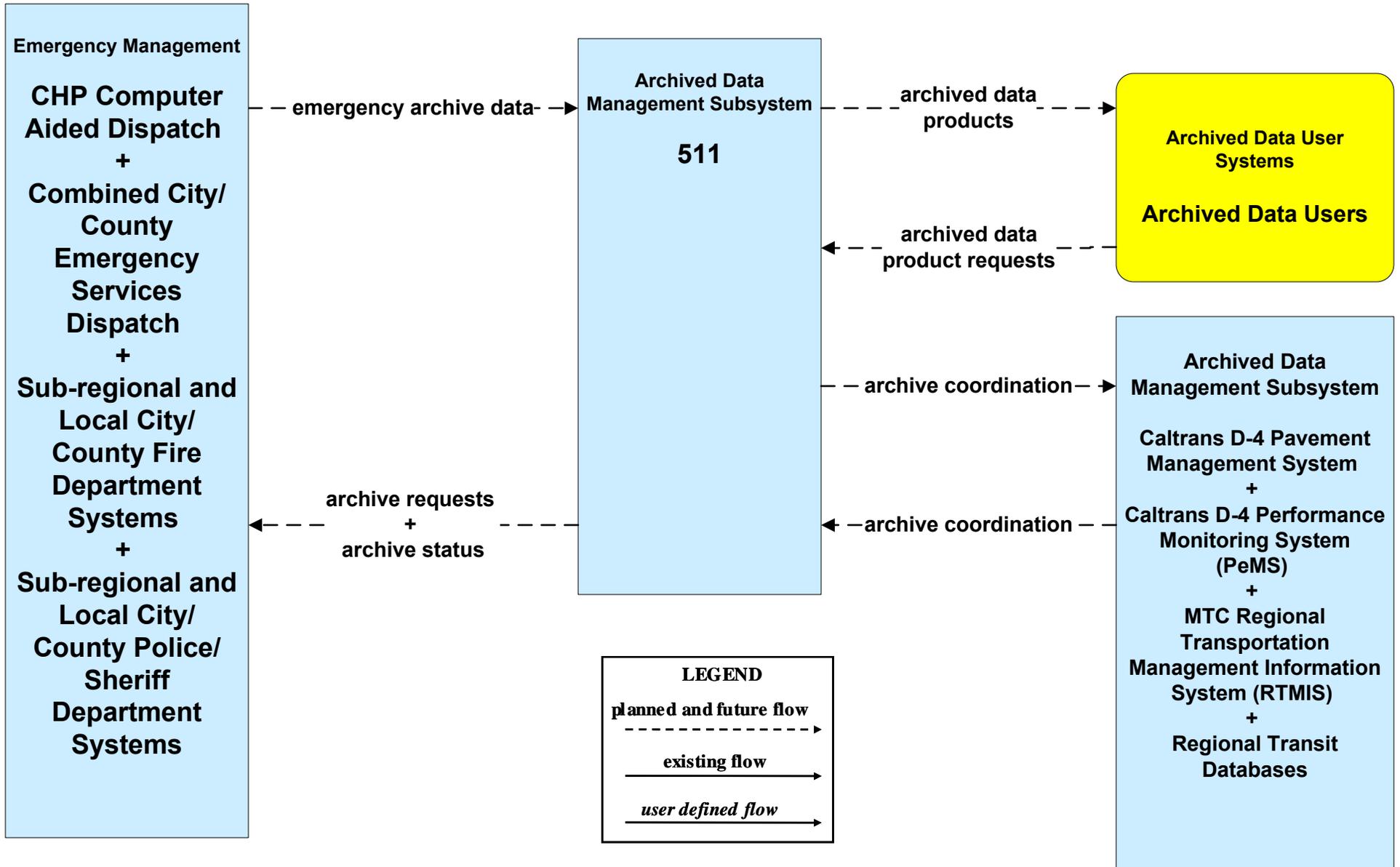
**AD1 - ITS Data Mart
MTC RTMIS**



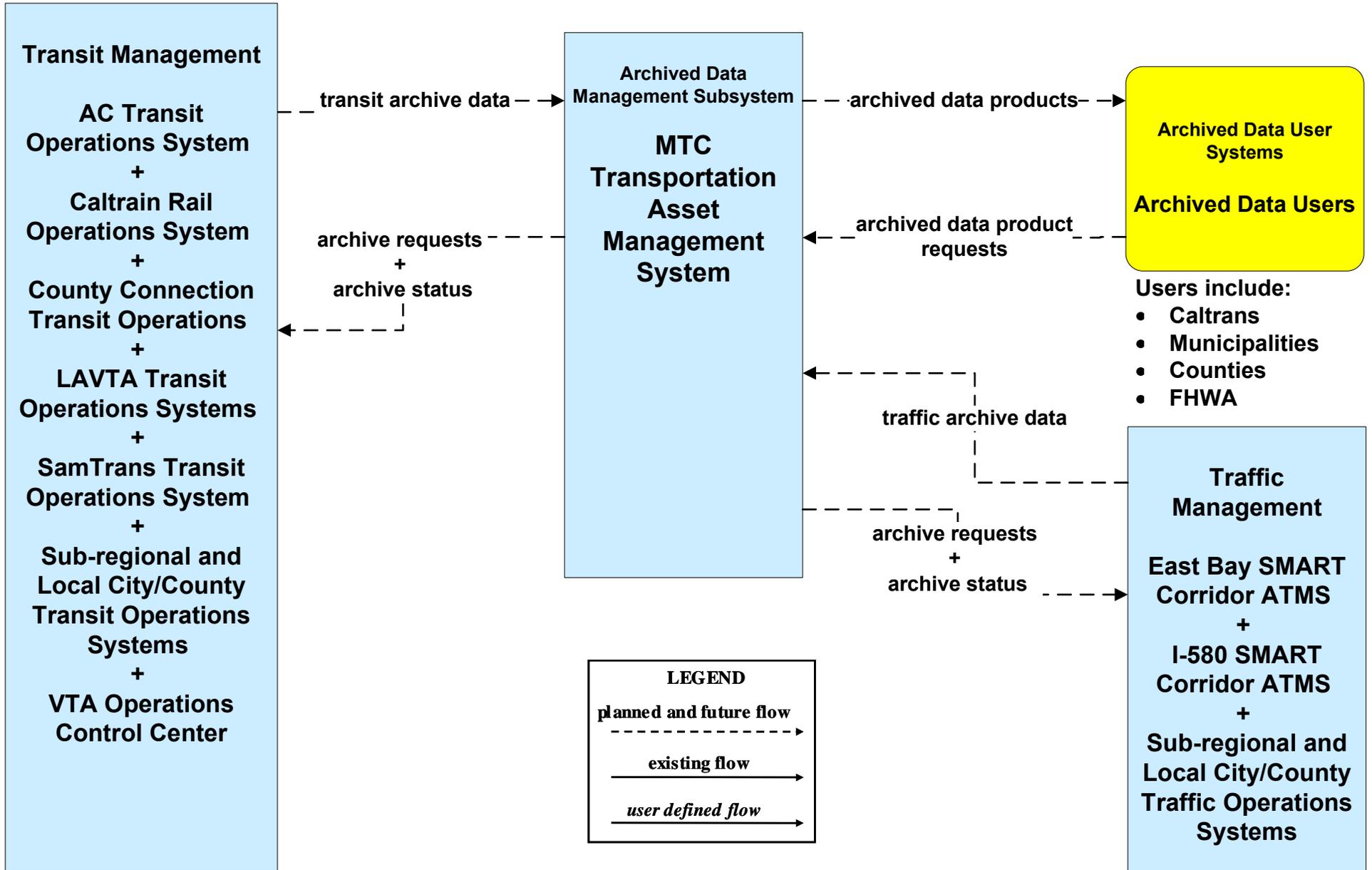
AD1 - ITS Data Mart 511 (1 of 2)



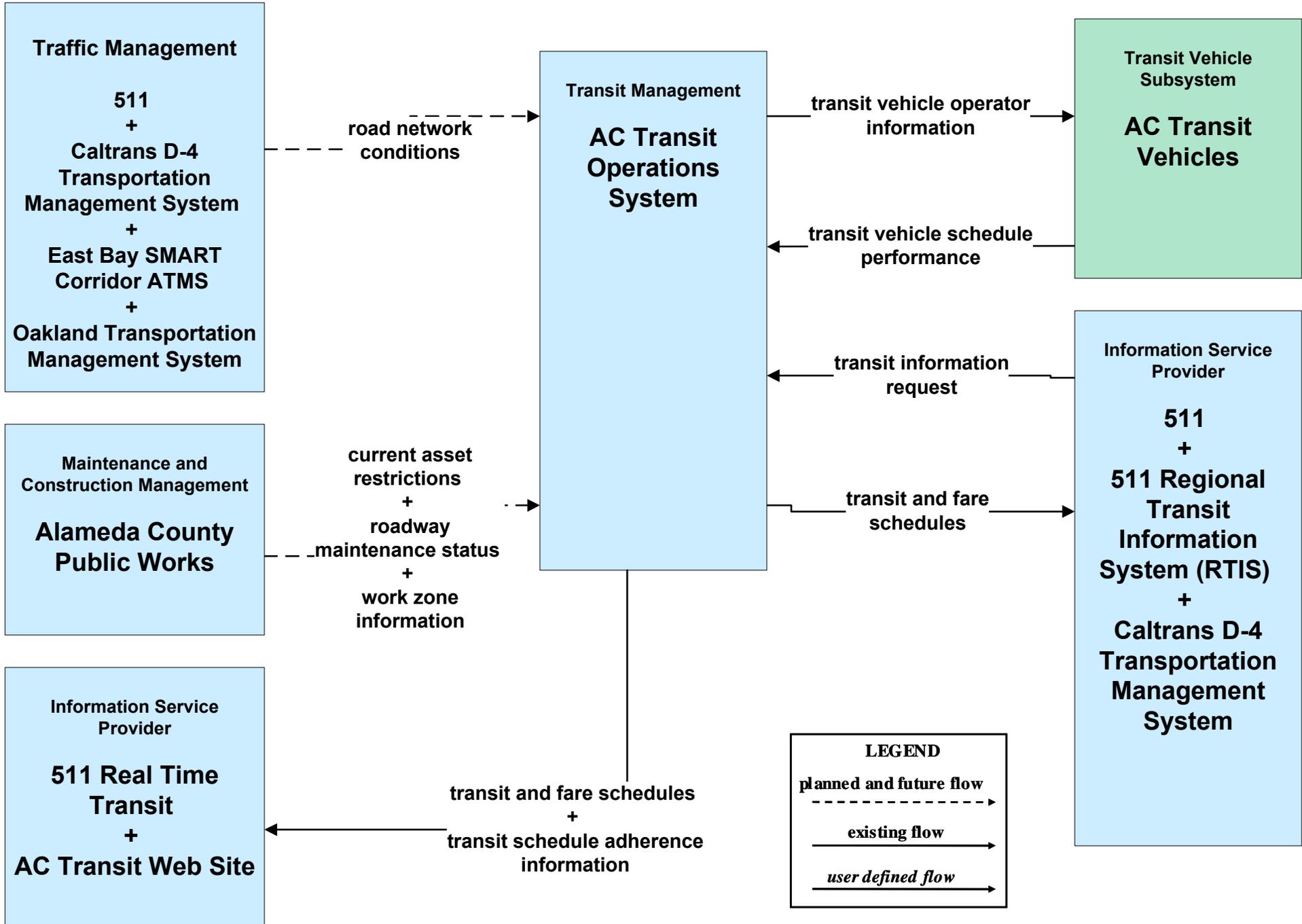
**AD1 - ITS Data Mart
511 (2 of 2)**



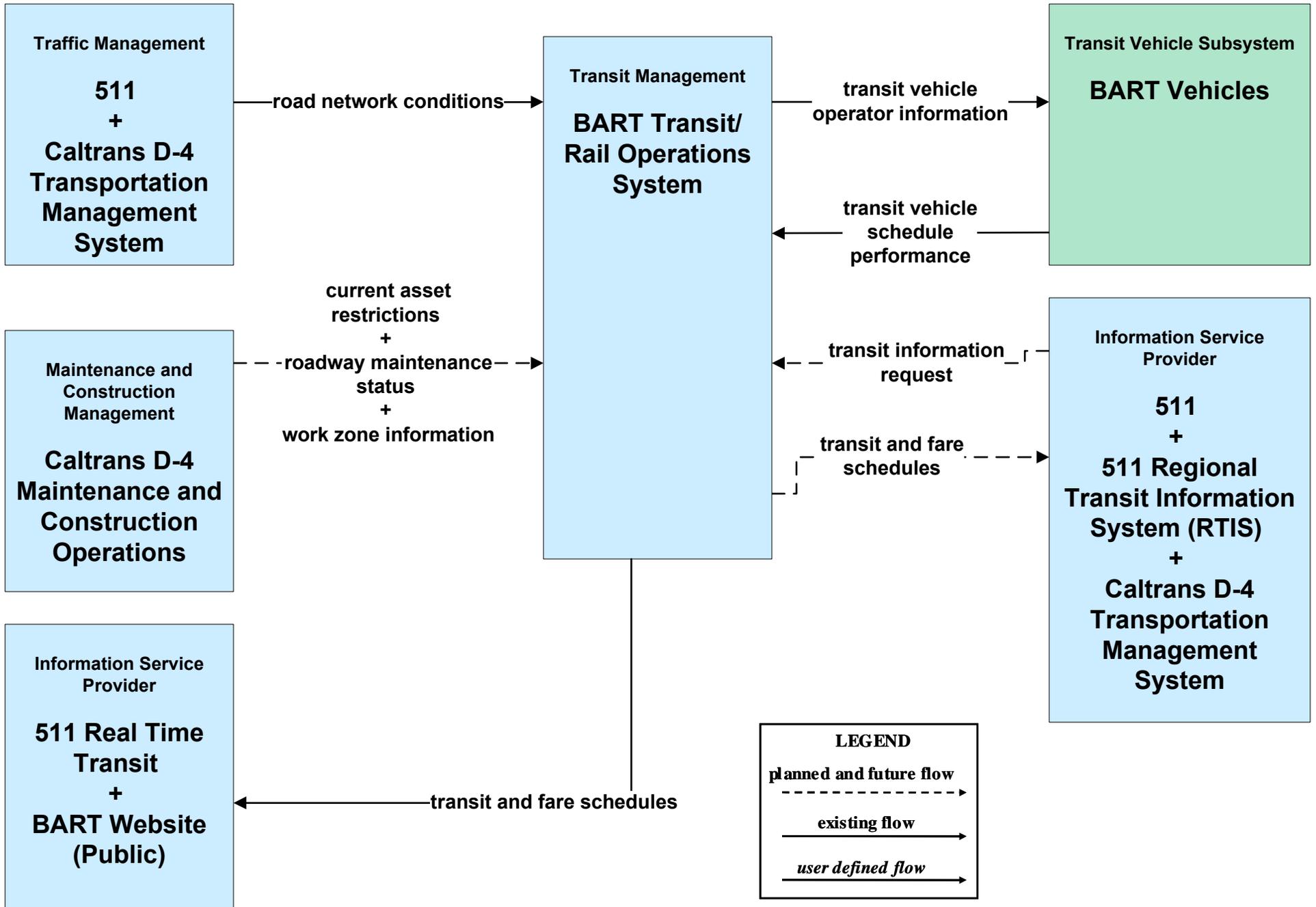
AD1 - ITS Data Mart
MTC Transportation Asset Management System



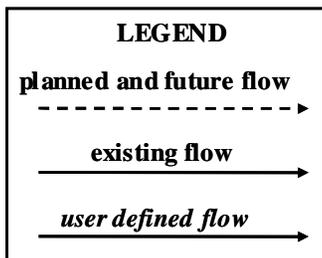
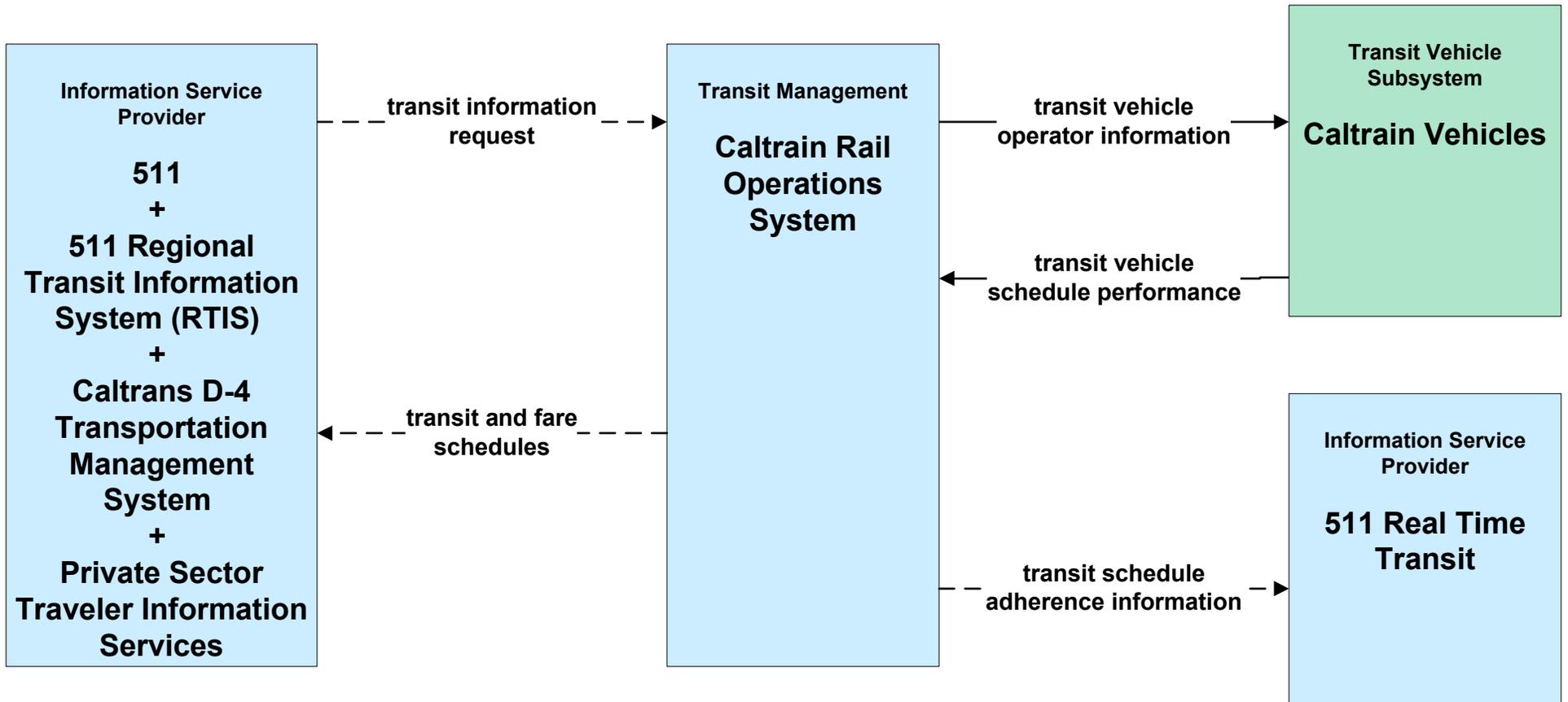
APTS02 - Transit Fixed-Route Operations AC Transit Operations



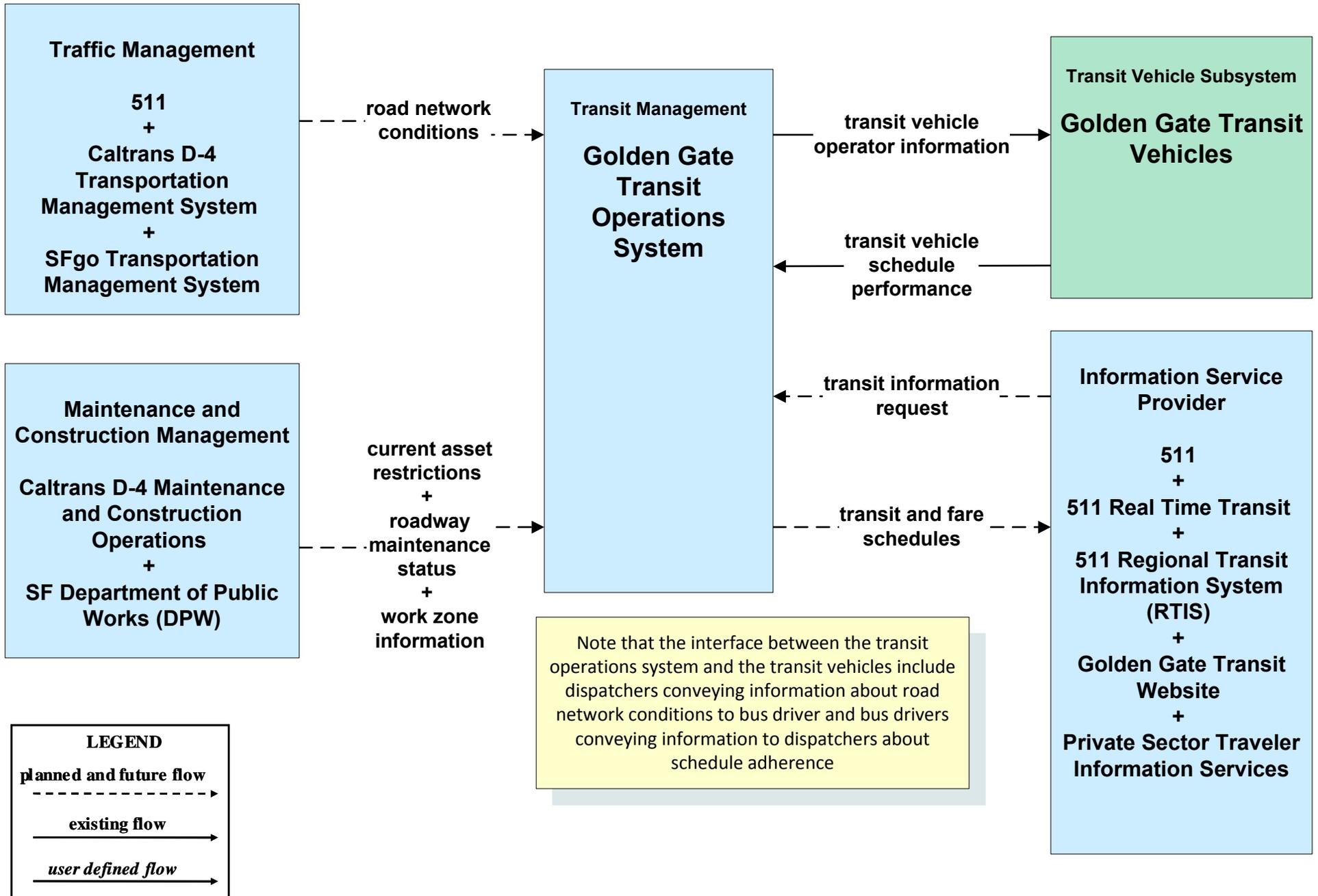
APTS02 - Transit Fixed-Route Operations BART Transit Operations



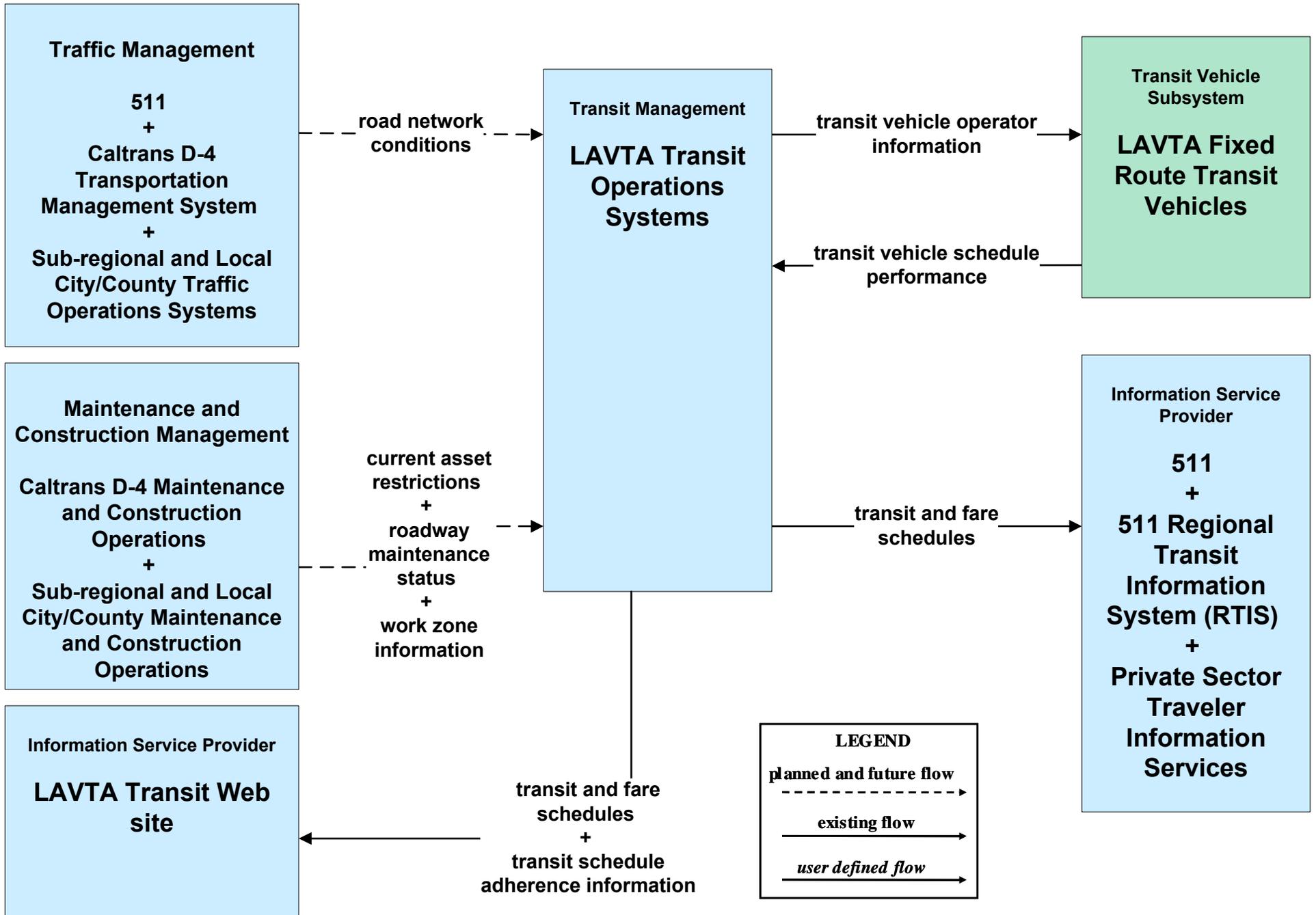
APTS02 - Transit Fixed-Route Operations Caltrain Rail Operations



APTS02 - Transit Fixed-Route Operations Golden Gate Transit



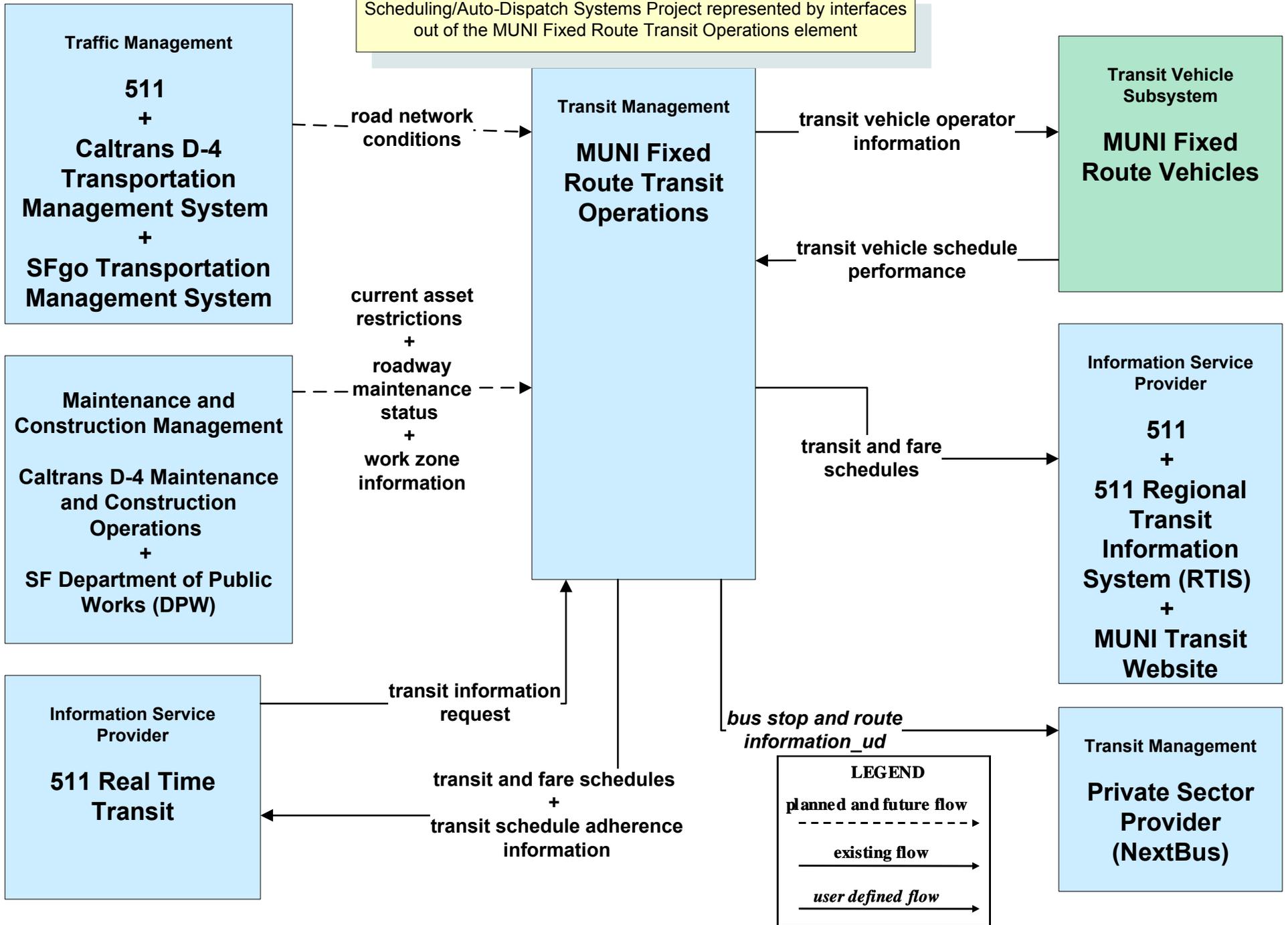
APTS02 - Transit Fixed-Route Operations LAVTA Transit



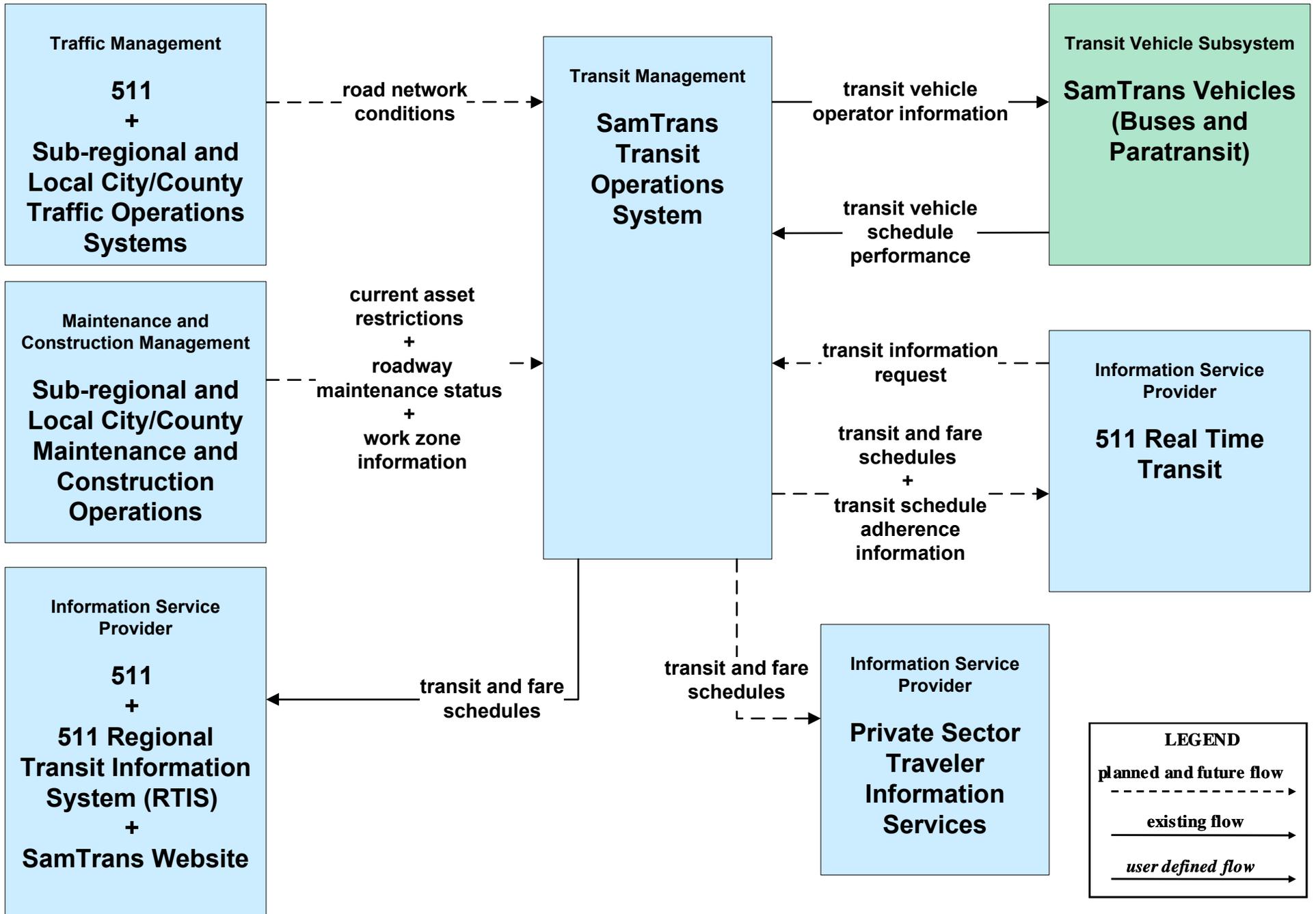
APTS02 - Transit Fixed-Route Operations

MUNI Transit Operations

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

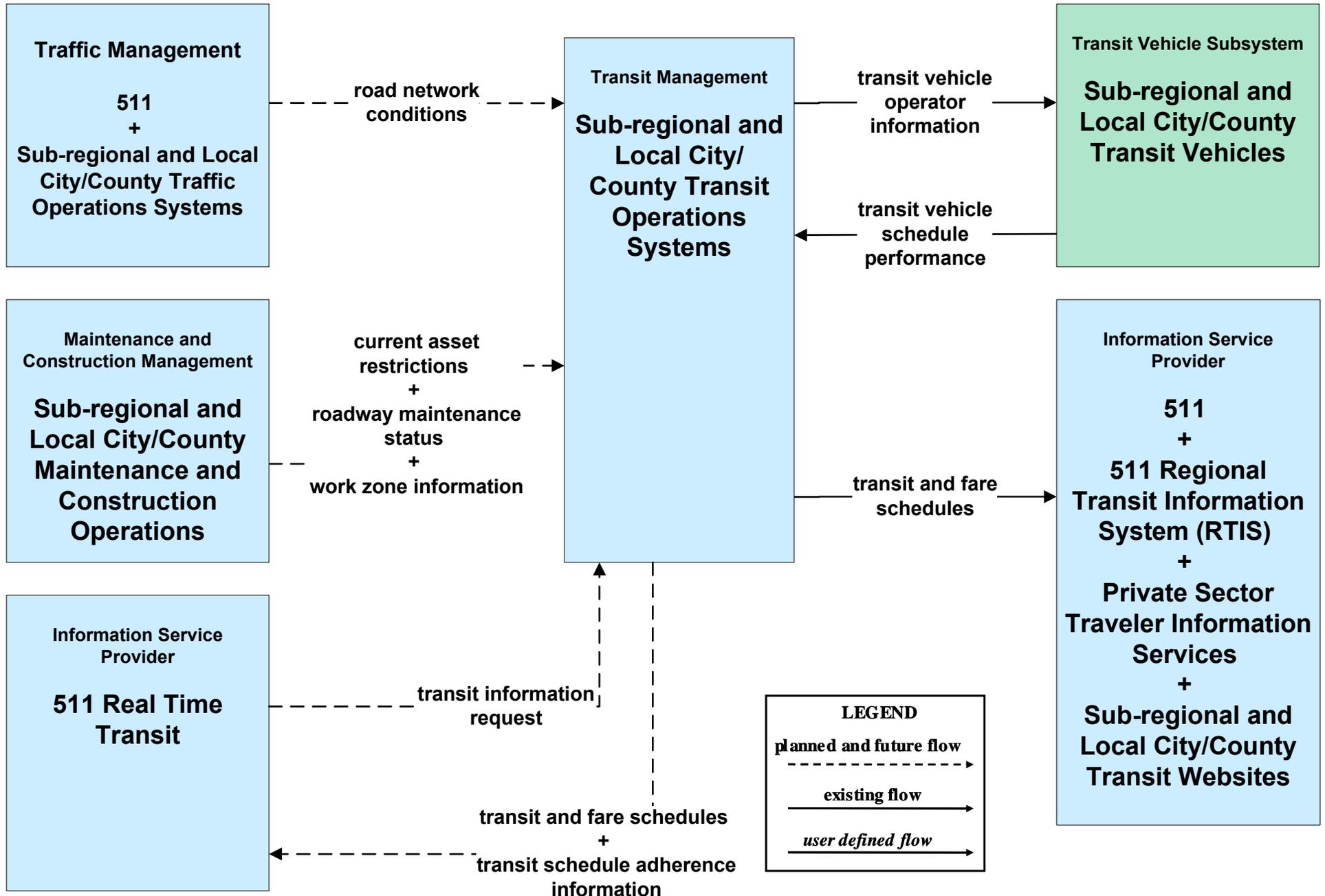


APTS02 - Transit Fixed-Route Operations SamTrans Transit Operations



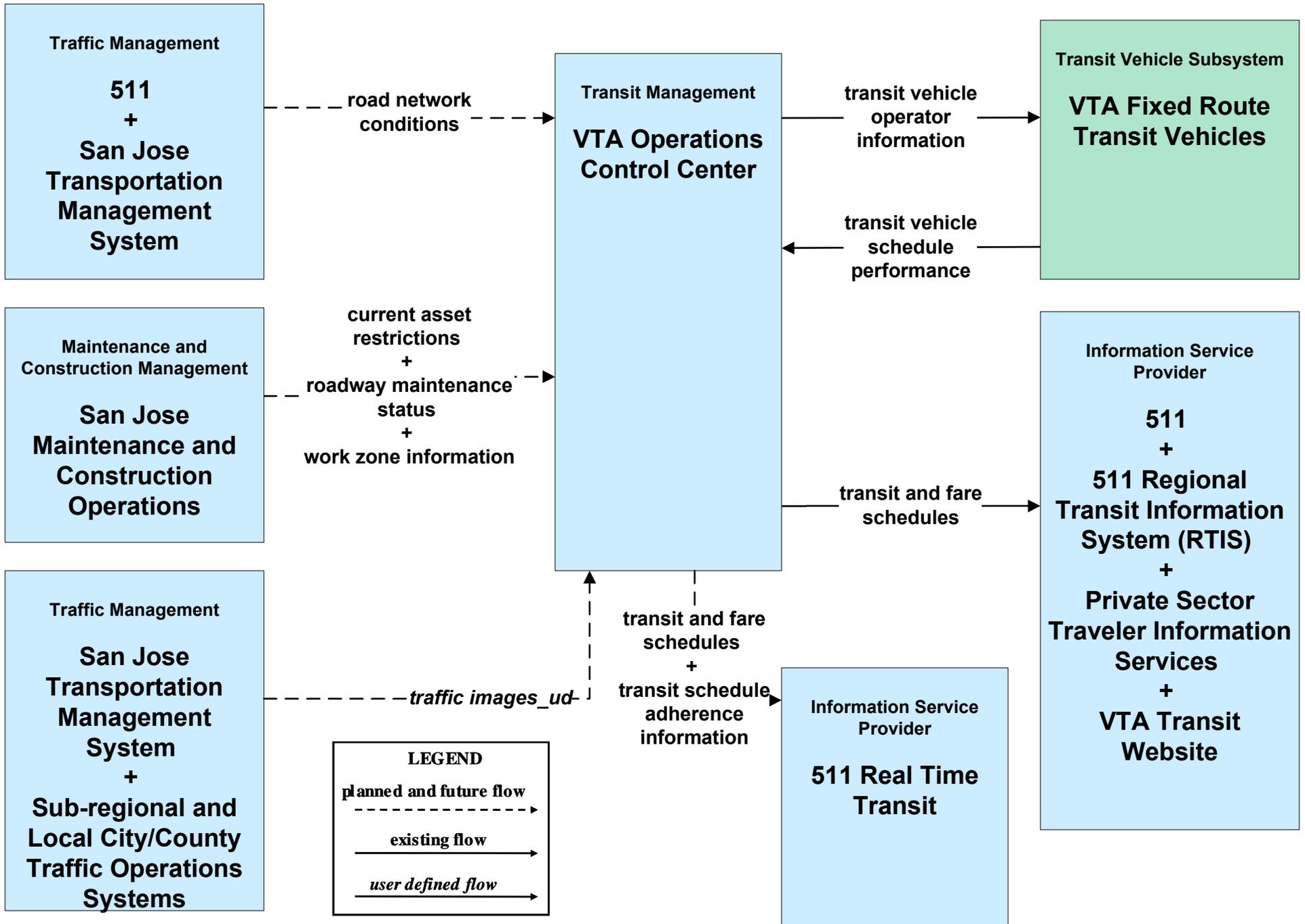
APTS02 - Transit Fixed-Route Operations

Sub-regional and Local City/County Transit Operations

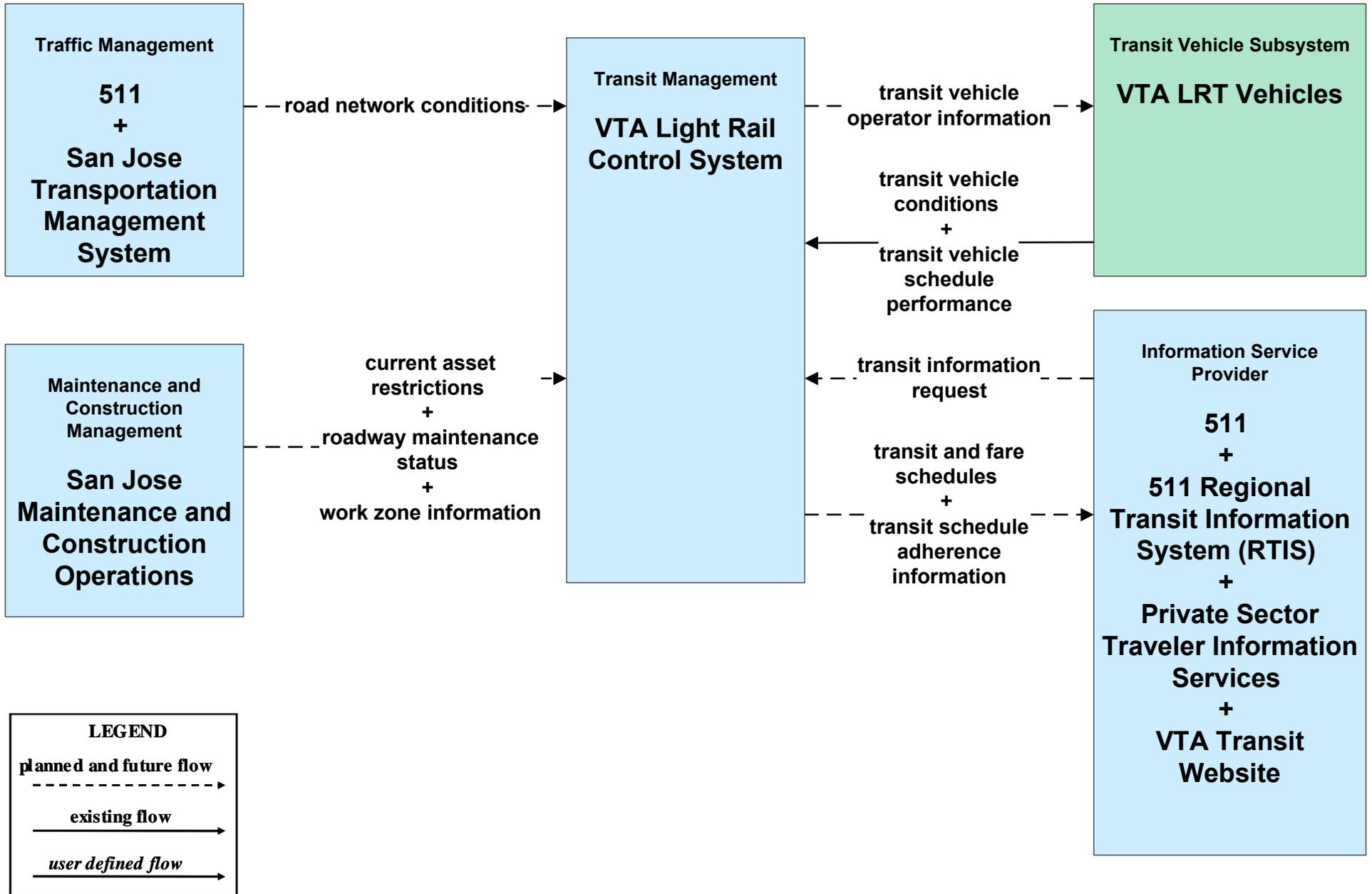


APTS02 - Transit Fixed-Route Operations

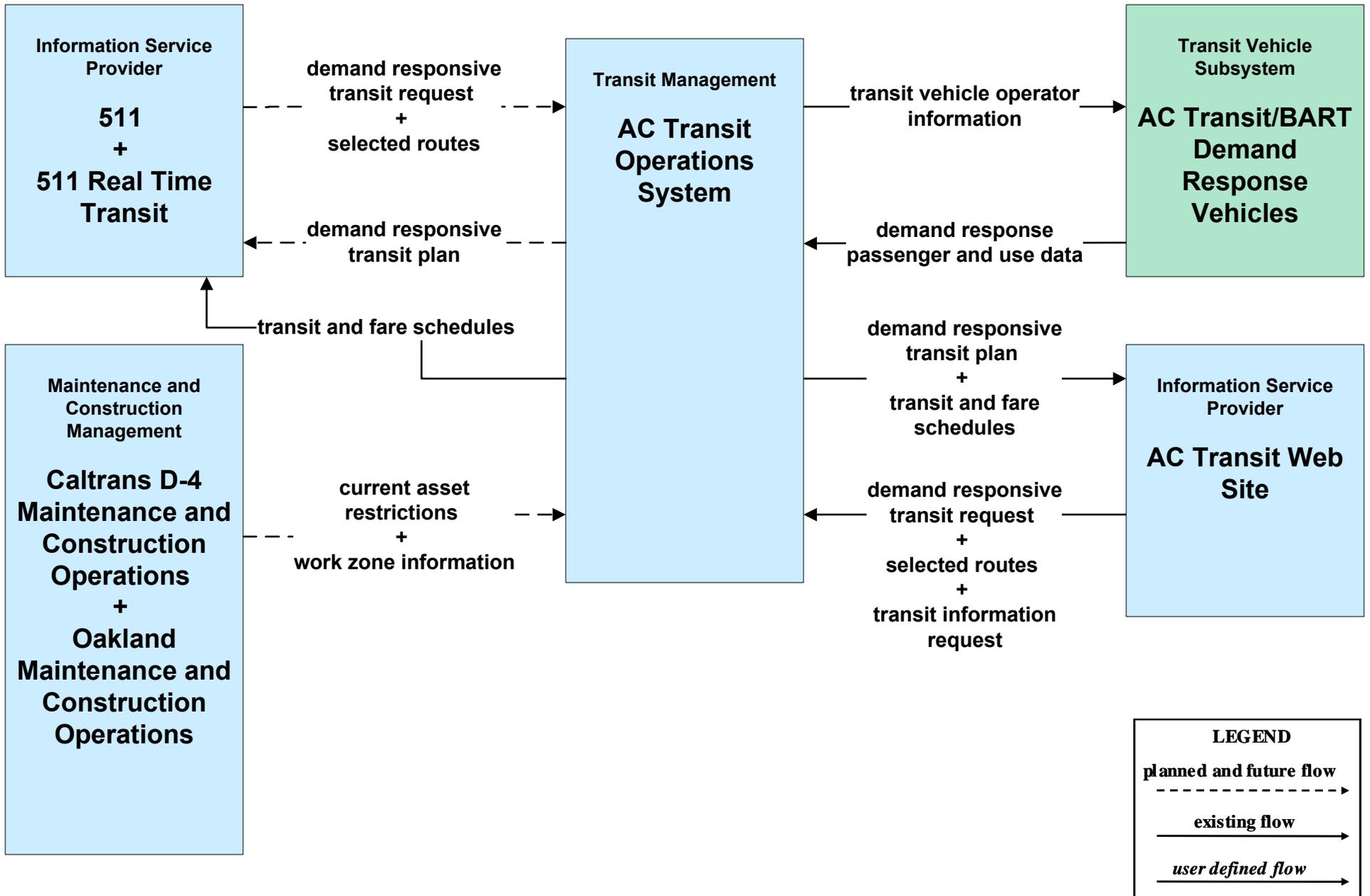
VTA Transit Operations



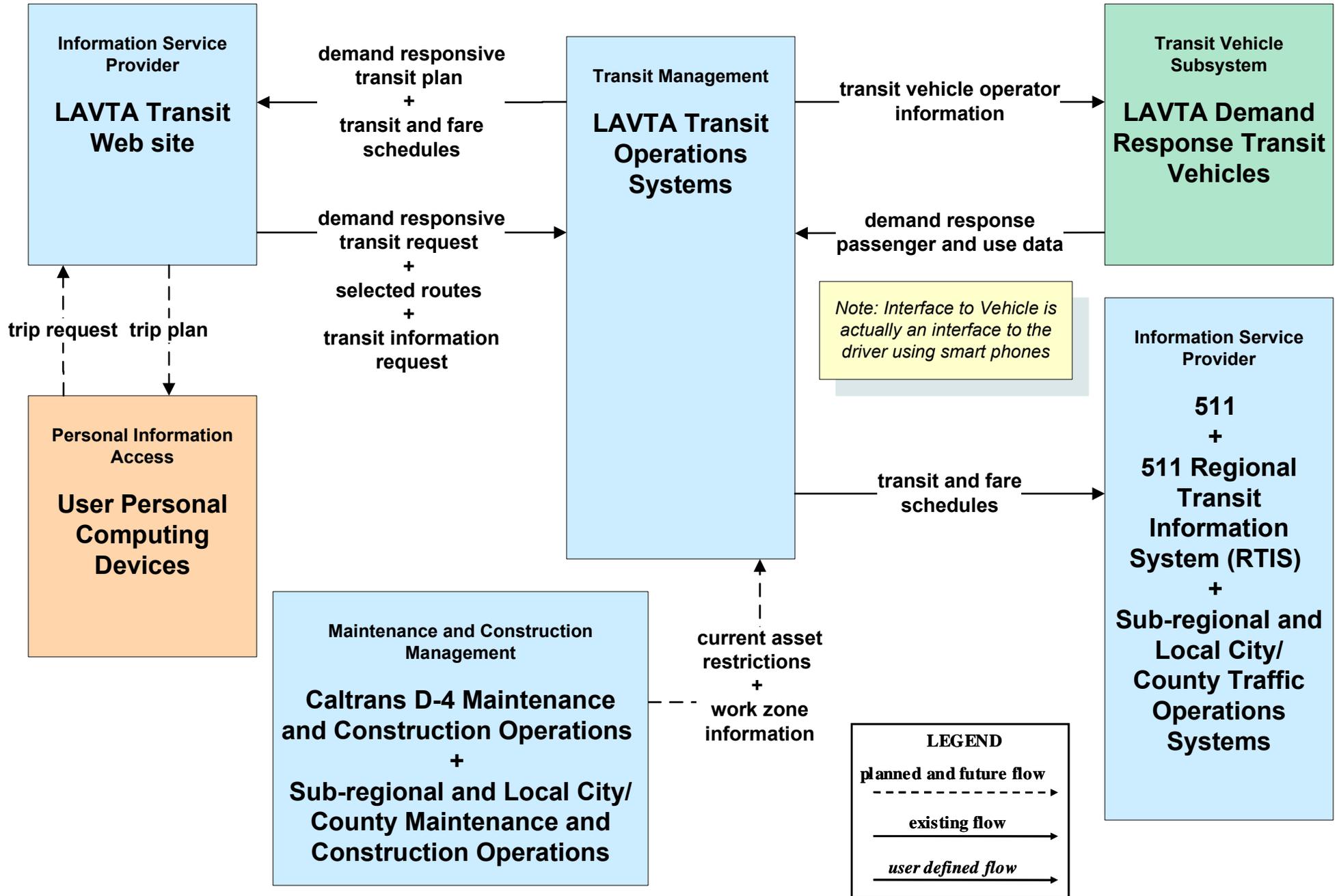
**APTS02 - Transit Fixed-Route Operations
VTA Light Rail**



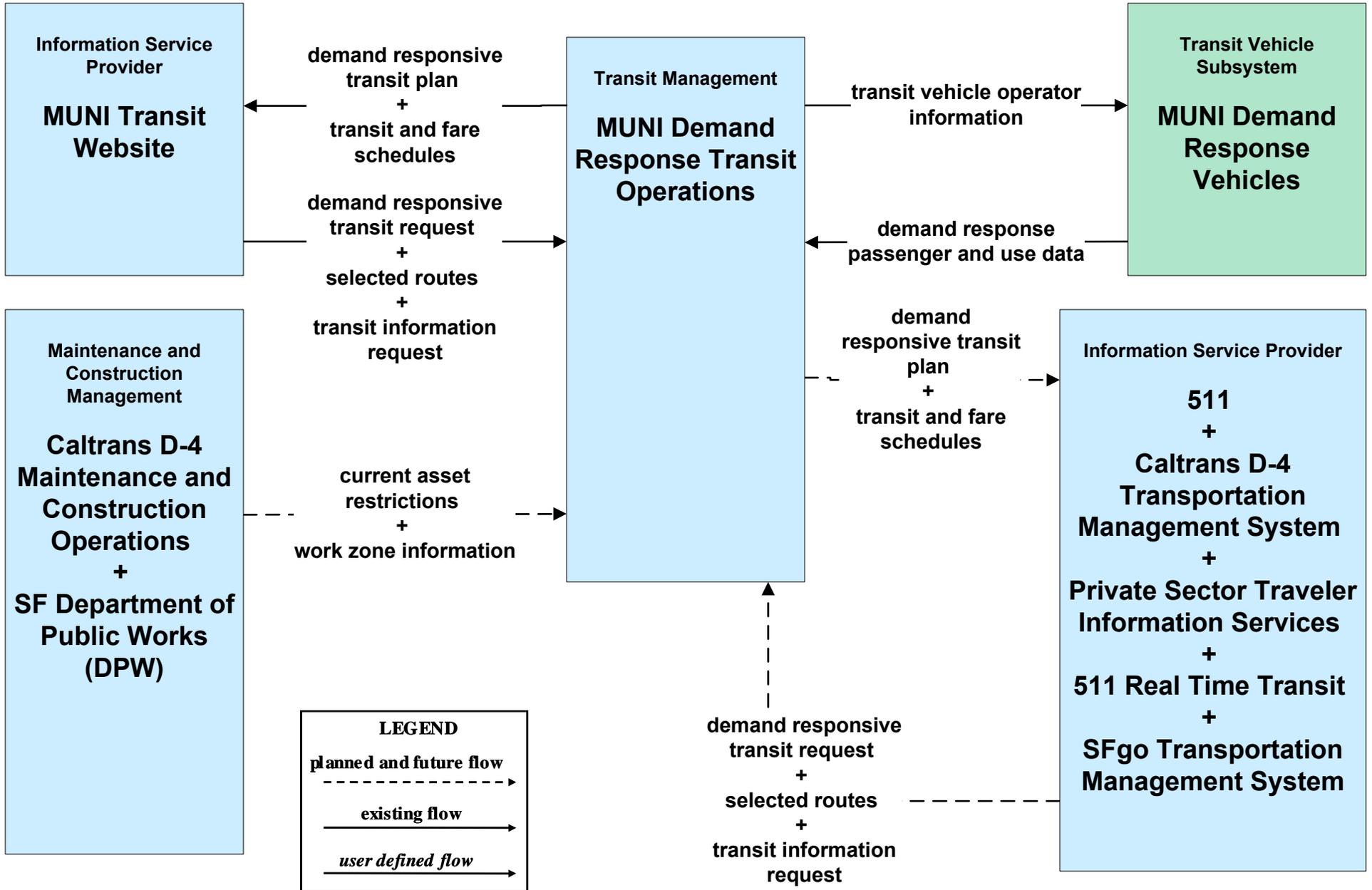
APTS03 - Demand Response Transit Operations AC Transit



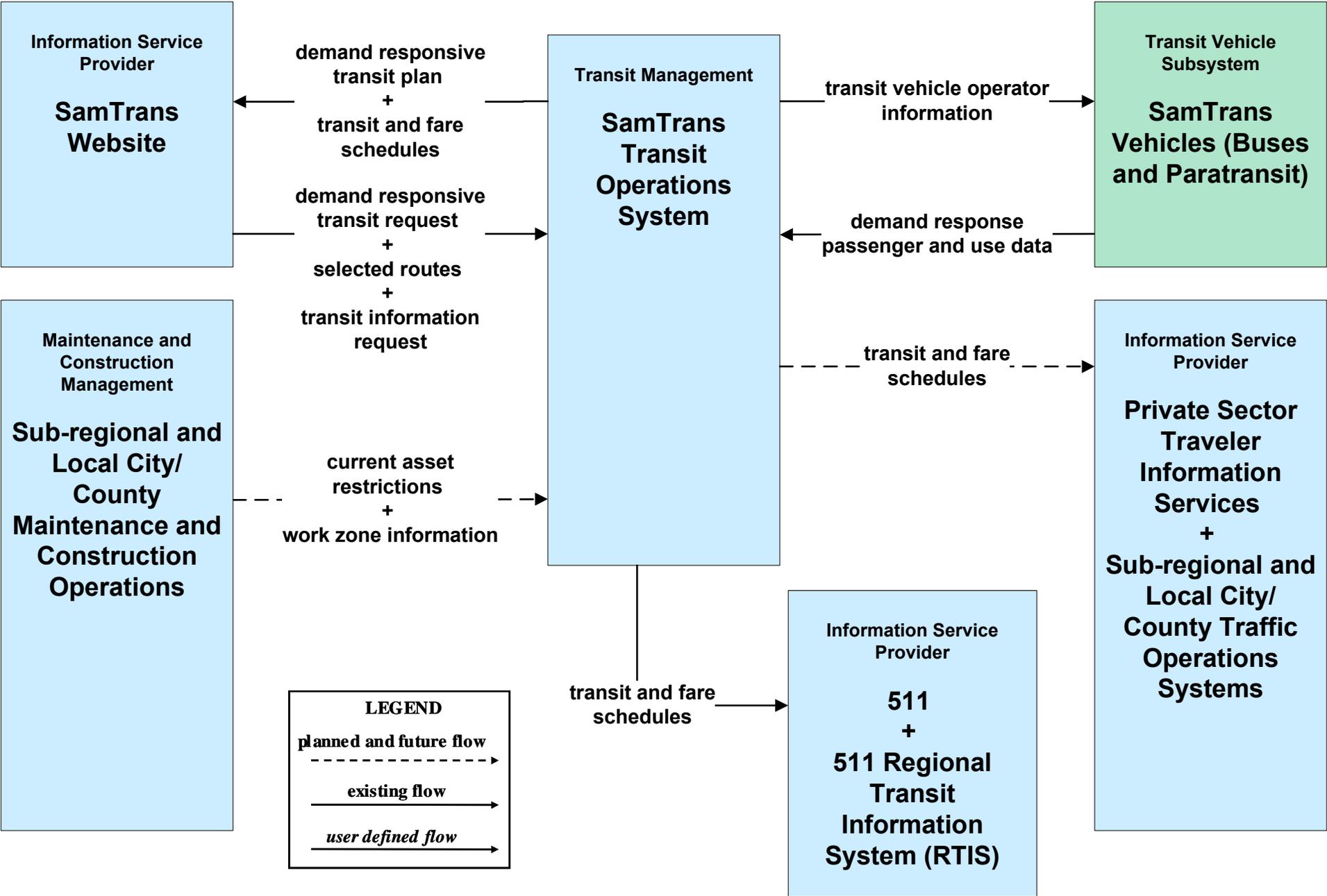
APTS03 - Demand Response Transit Operations LAVTA



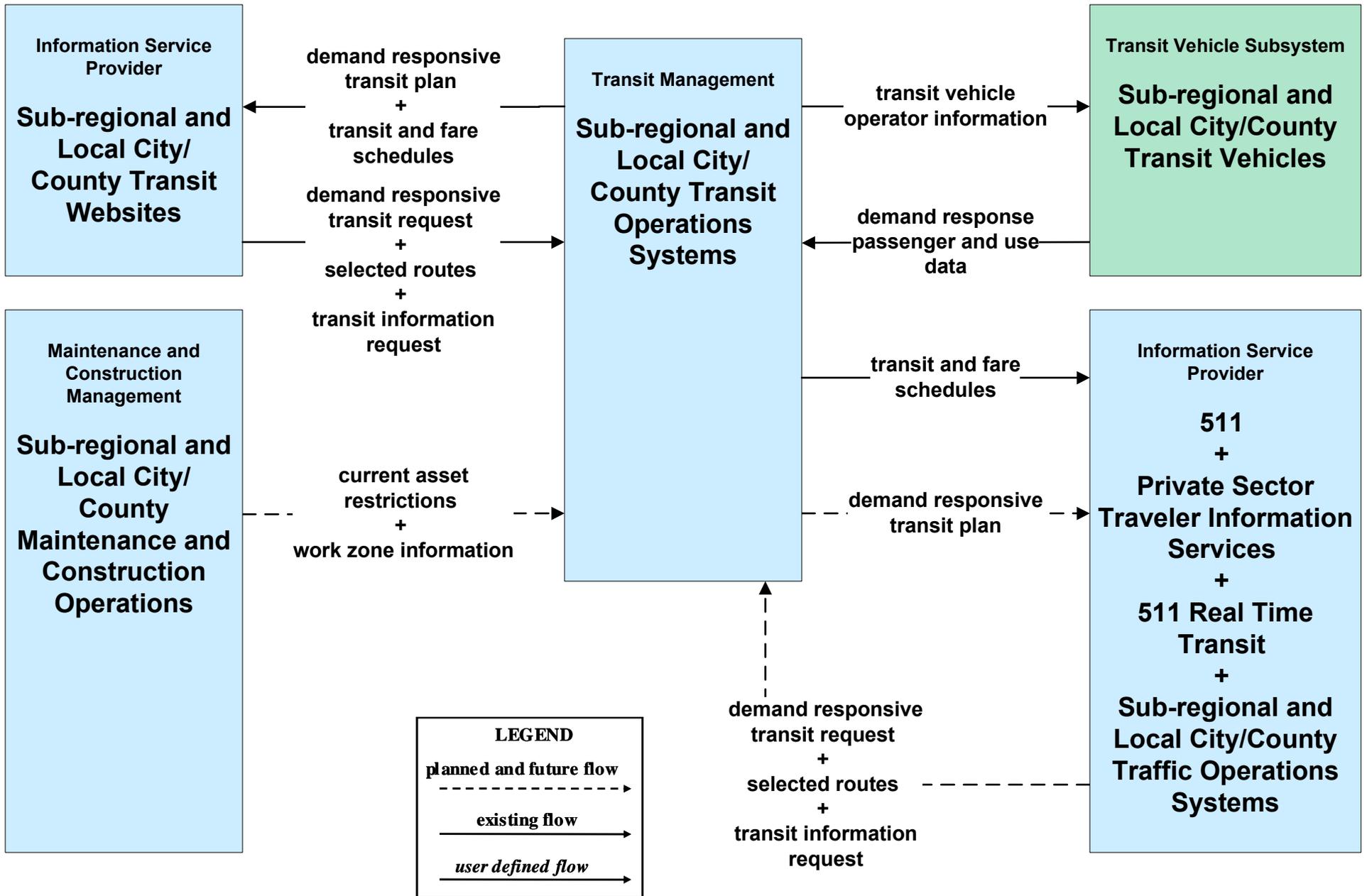
APTS03 - Demand Response MUNI Transit Operations



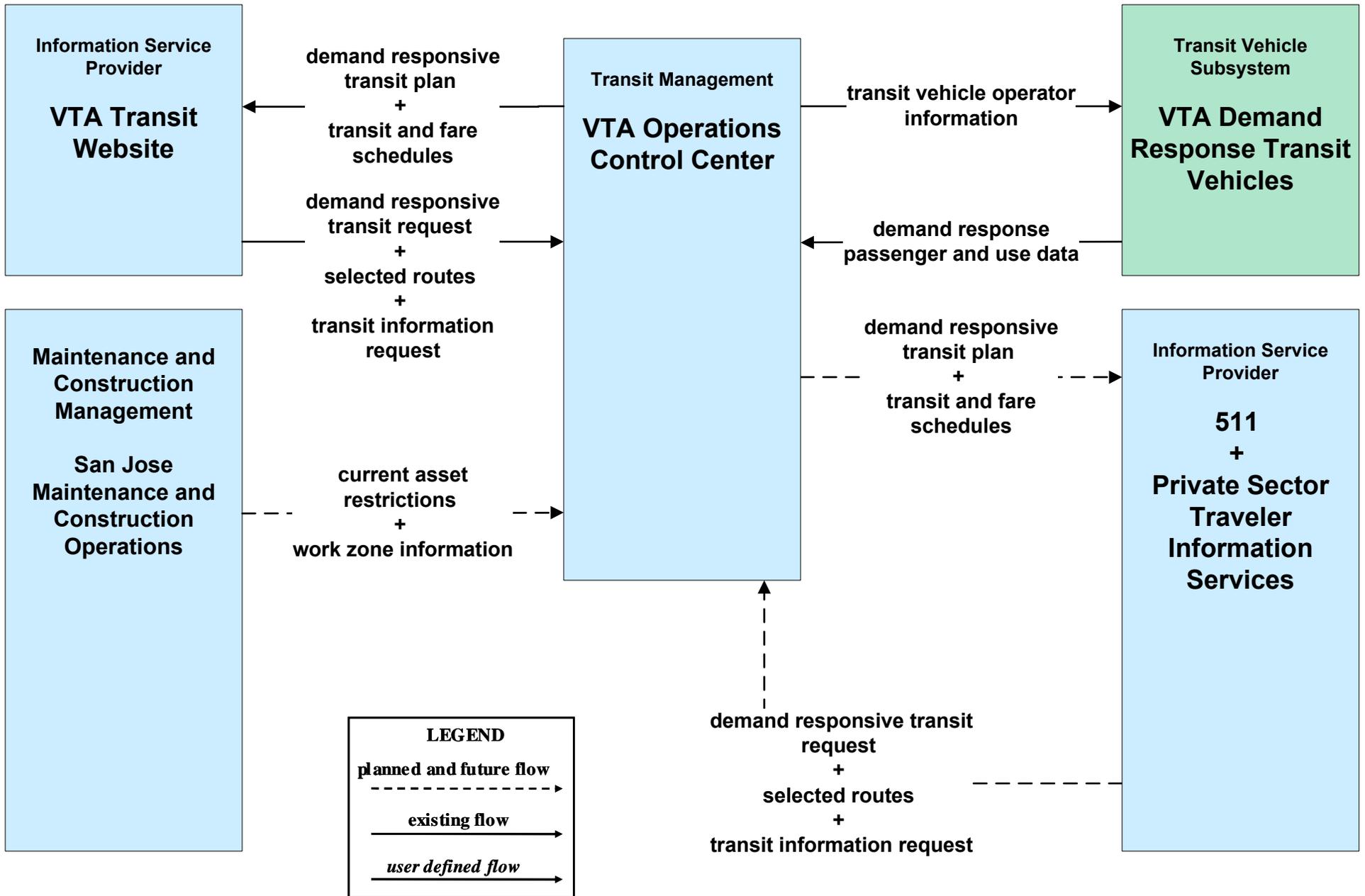
**APTS03 - Demand Response
SamTrans Transit Operations**



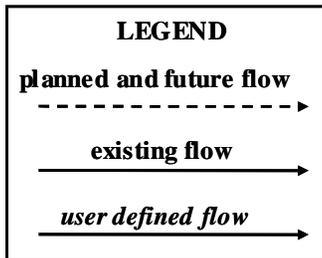
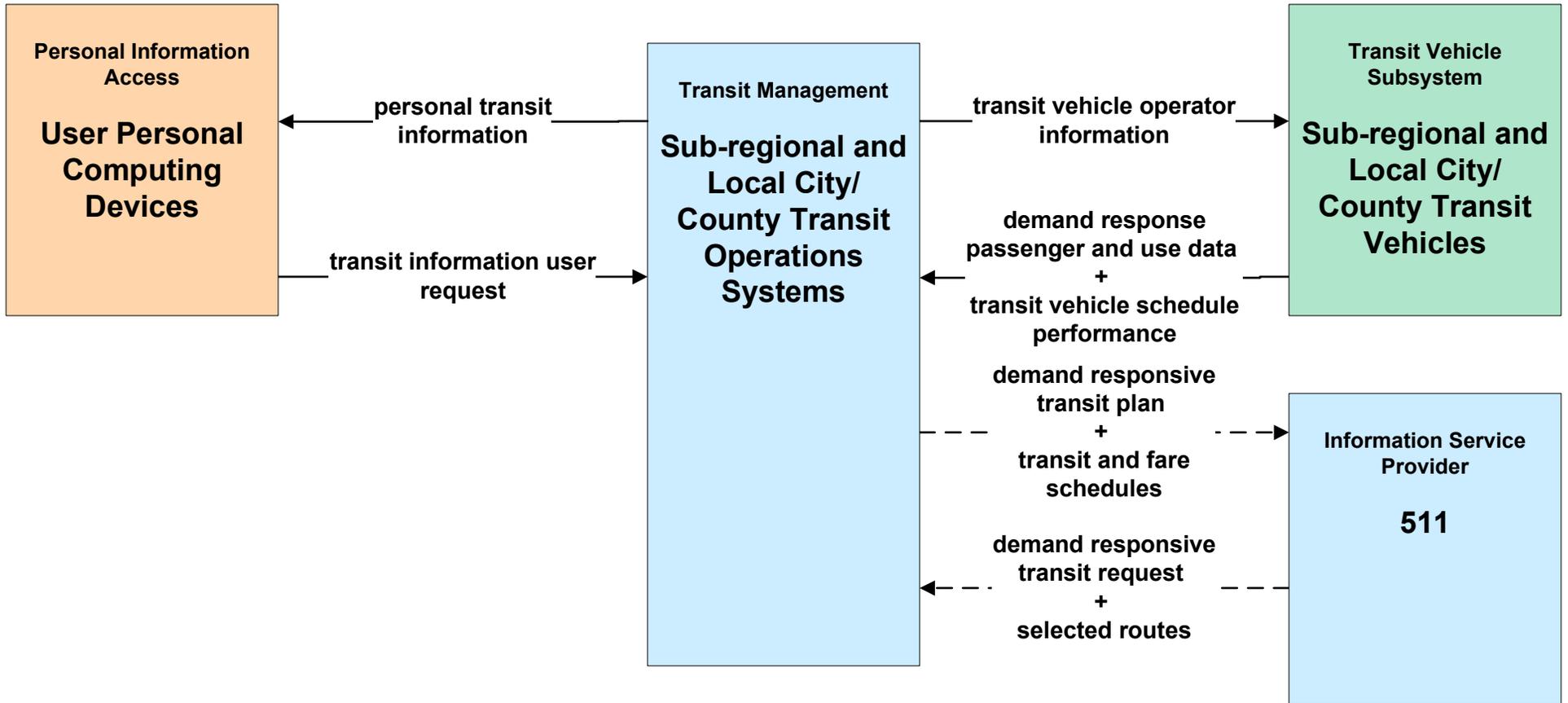
**APTS03 - Demand Response
Sub-regional and Local City/County Transit Operations**



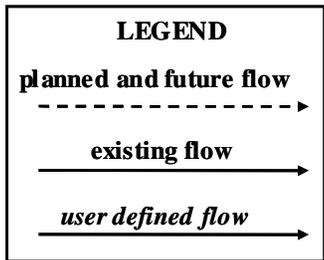
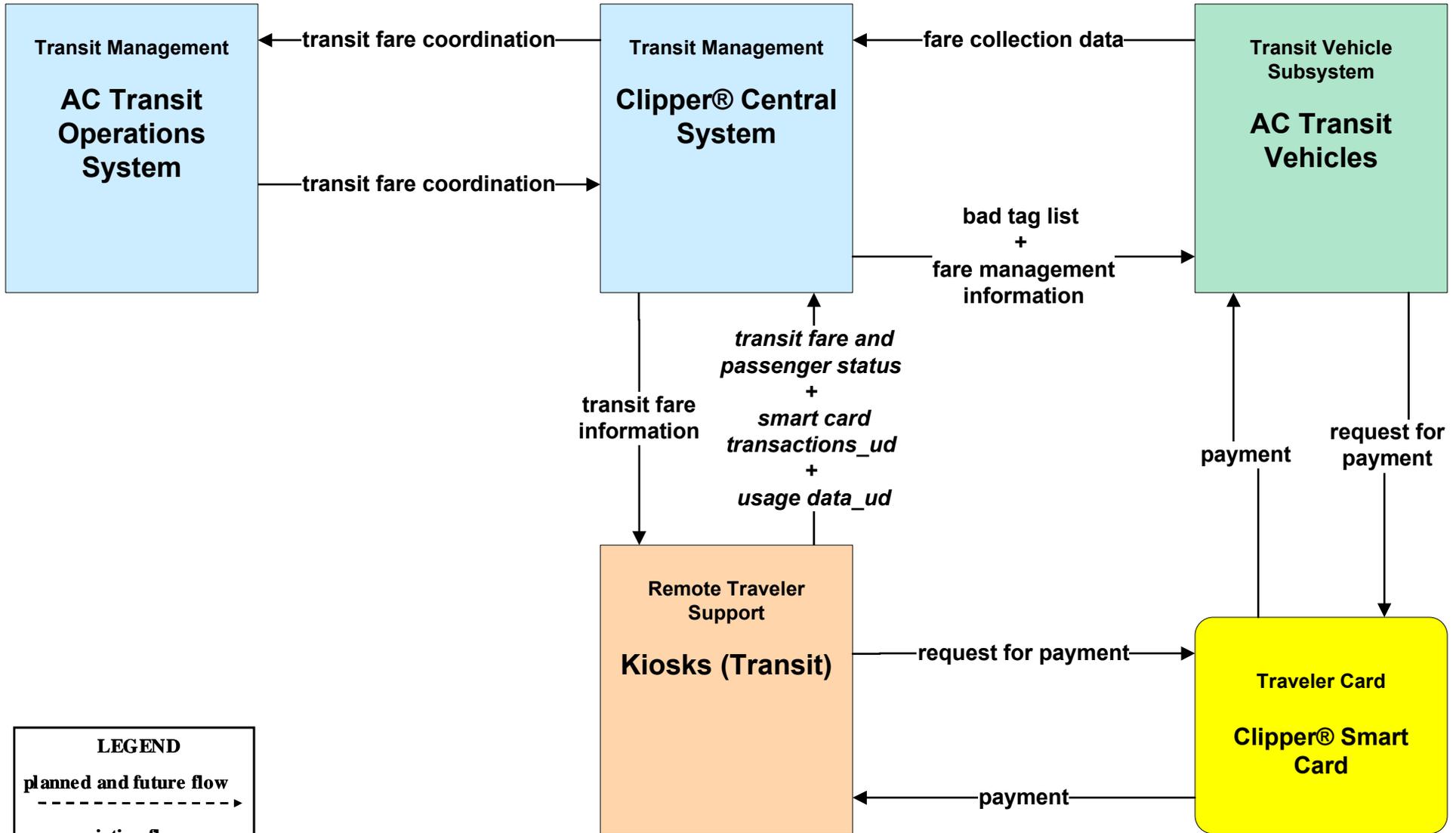
APTS03 - Demand Response VTA Transit Operations



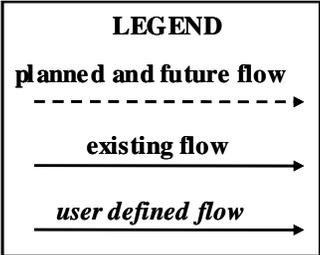
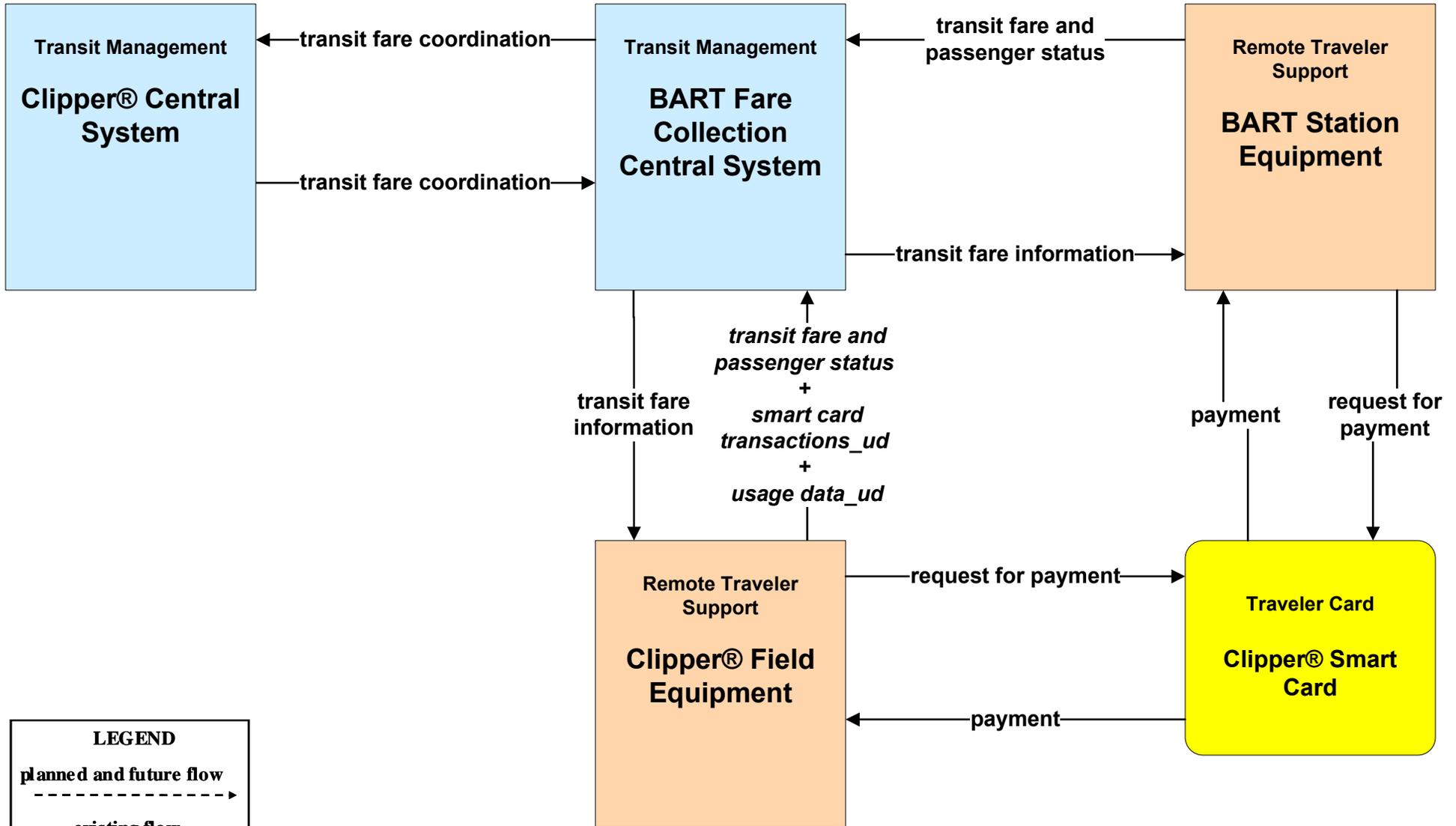
APTS03 - Demand Response Transit Operations Sub-regional and Local City/County Transit



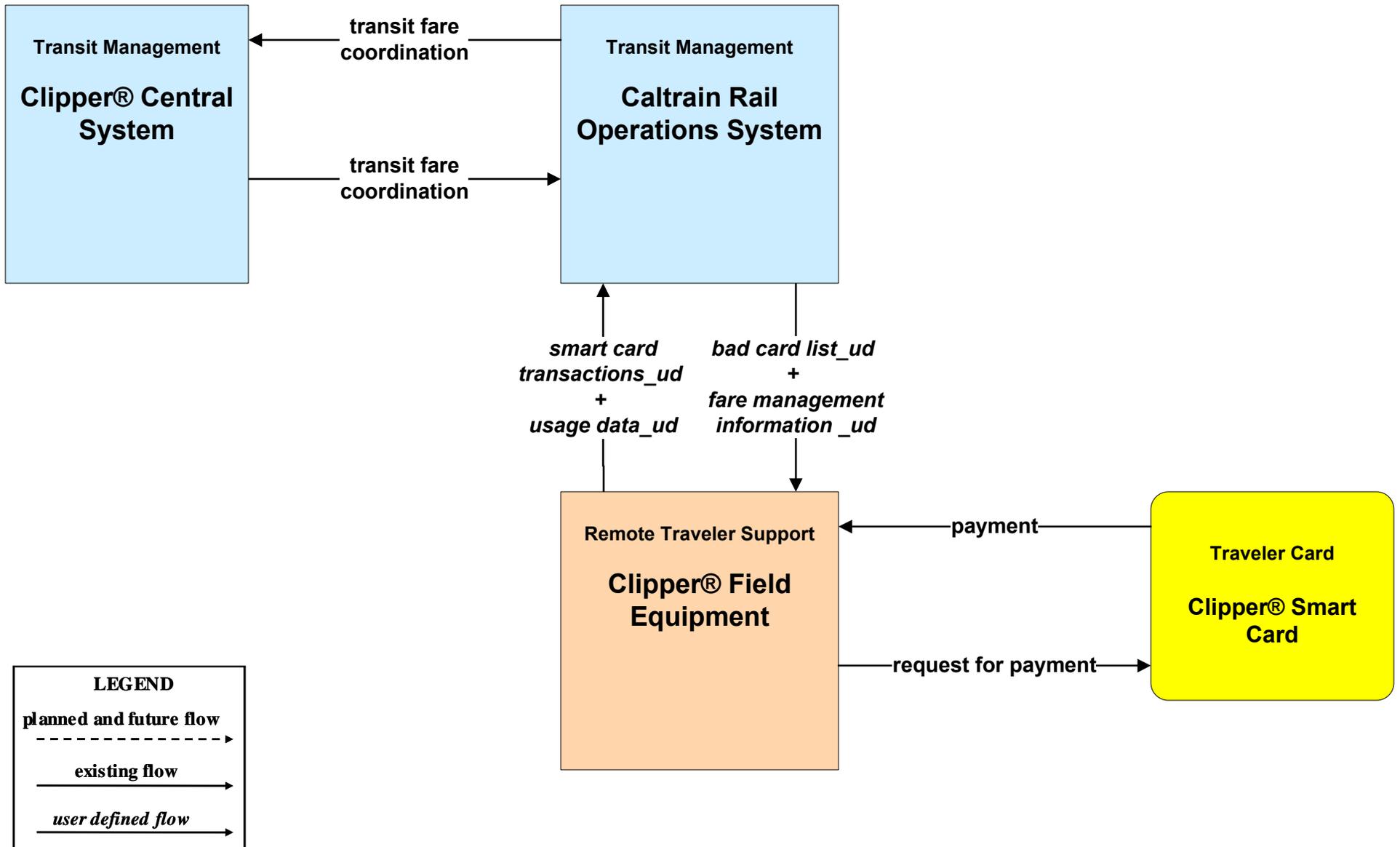
APTS04 - Transit Passenger and Fare Management AC Transit Operations



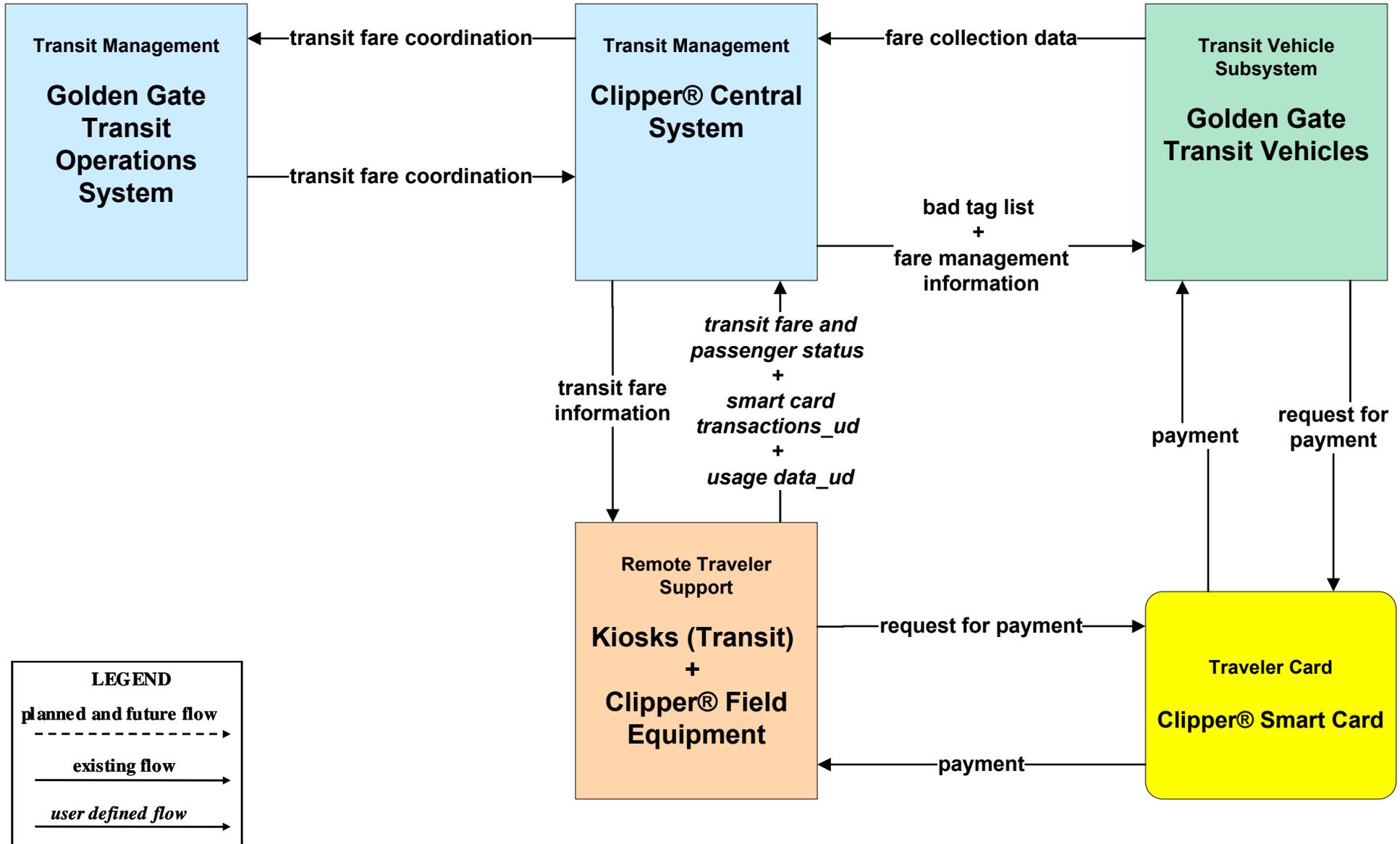
**APTS04 - Transit Passenger and Fare Management
BART Transit Operations (Clipper®)**



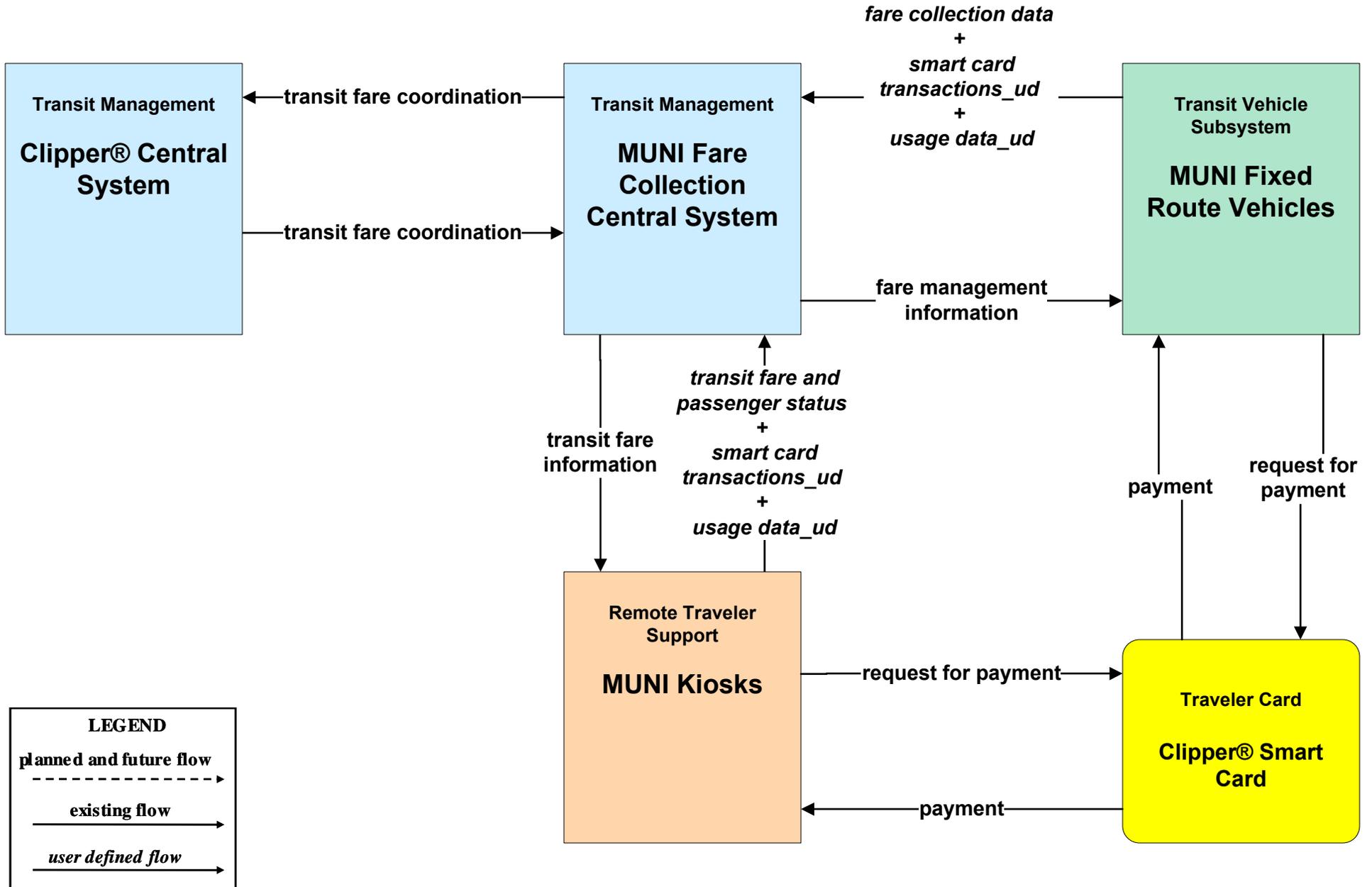
APTS04 - Transit Passenger and Fare Management Caltrain Rail Operations



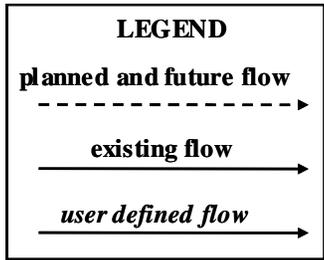
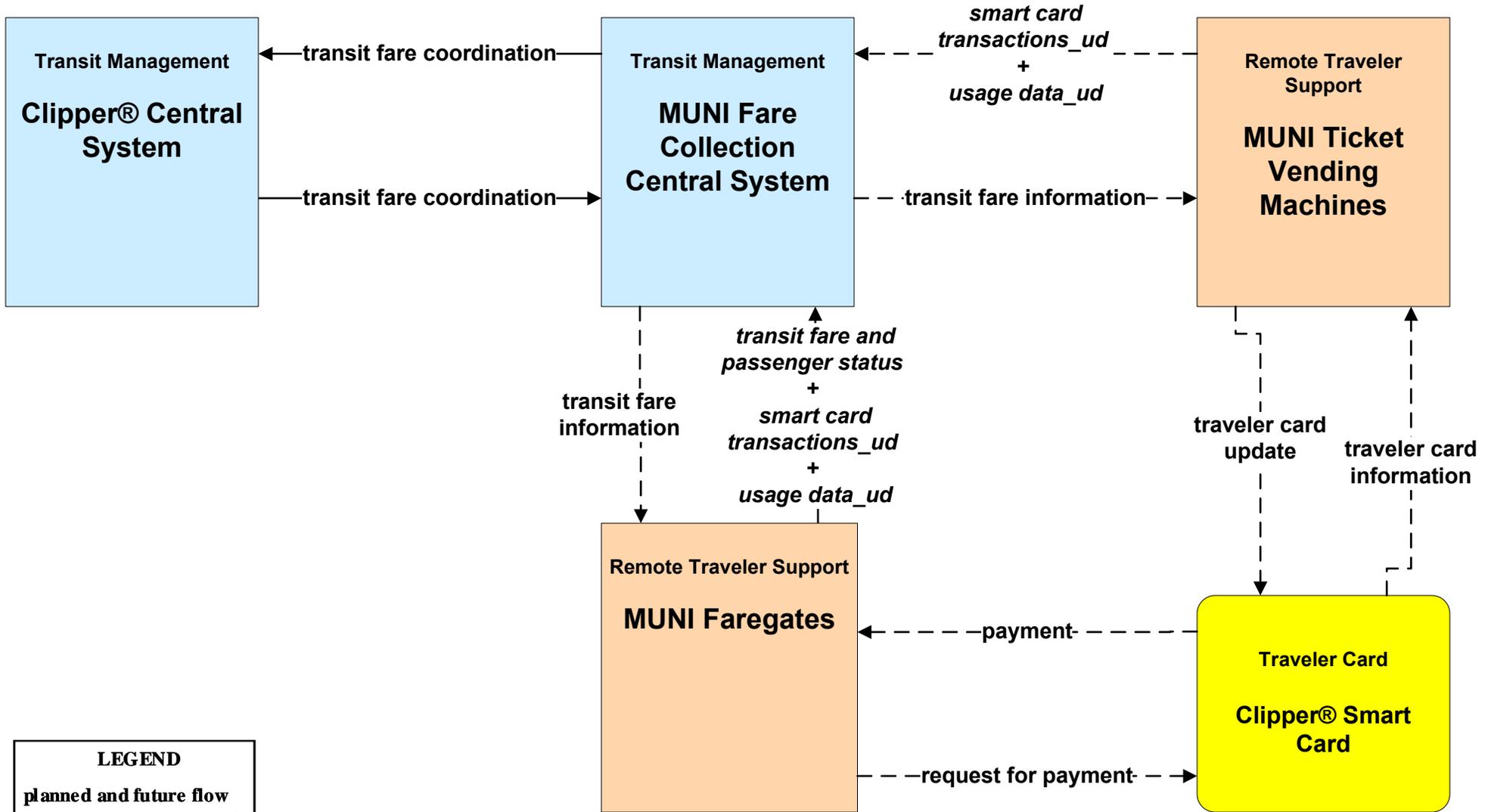
**APTS04 - Transit Passenger and Fare Management
Golden Gate Transit Operations with Clipper**



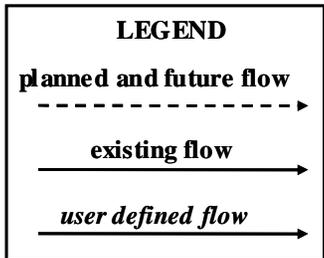
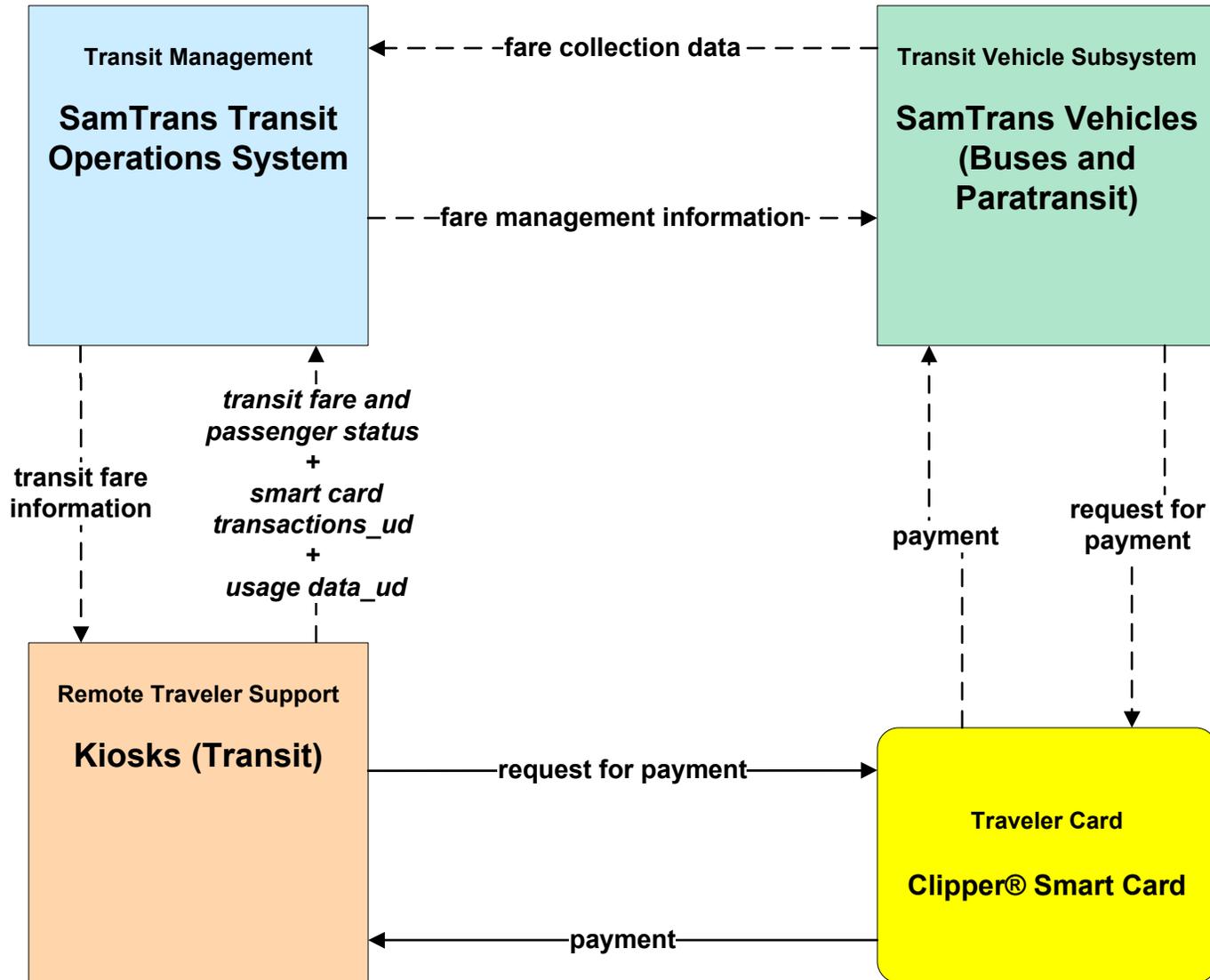
**APTS04 - Transit Passenger and Fare Management
MUNI Transit Operations (Fixed Route)**



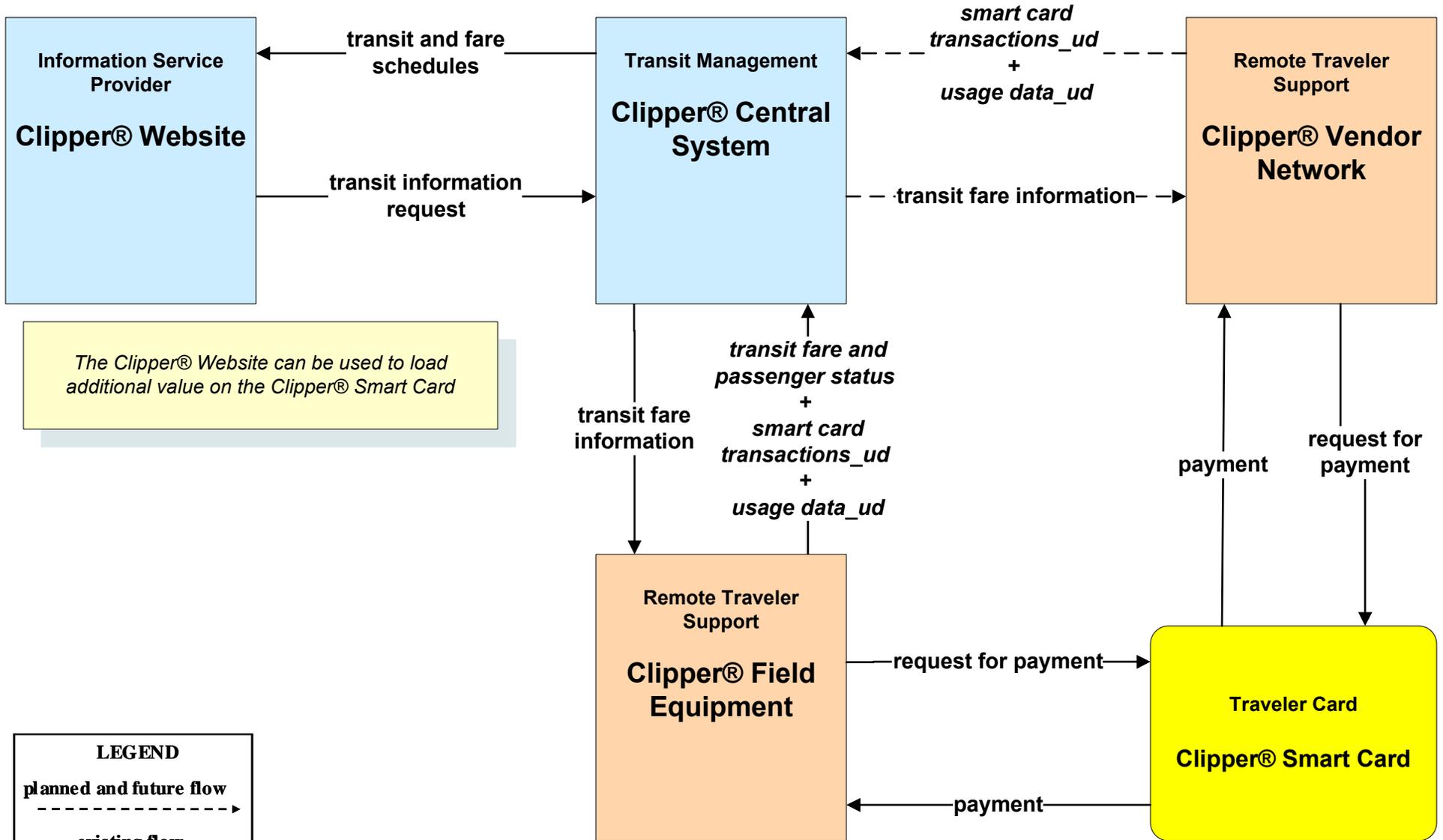
APTS04 - Transit Passenger and Fare Management MUNI Rail Operations



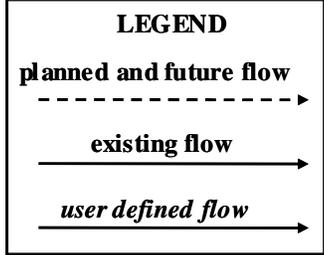
APTS04 - Transit Passenger and Fare Management SamTrans Transit Operations



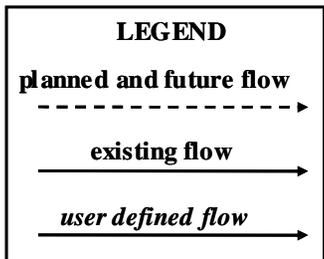
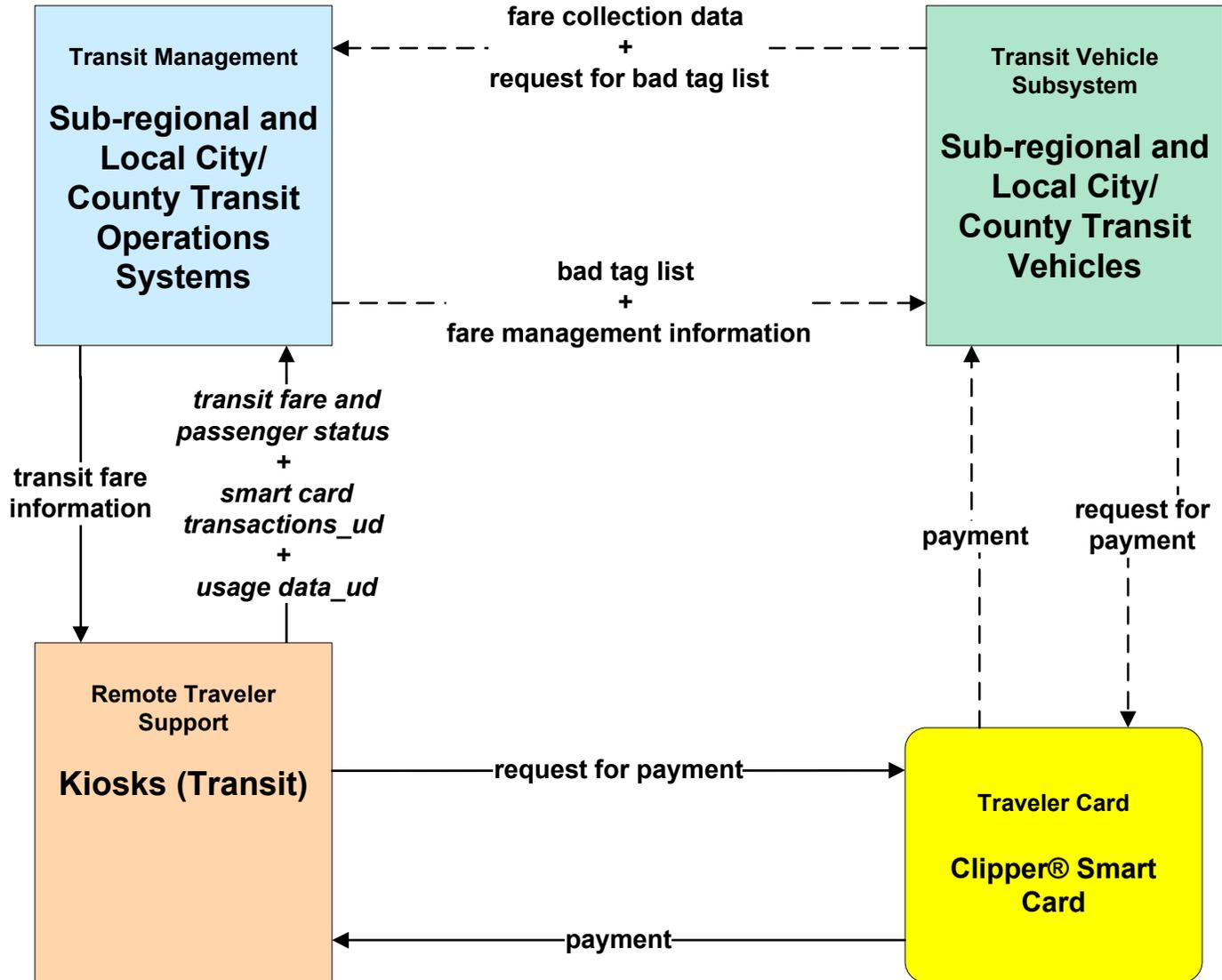
APTS04 - Transit Passenger and Fare Management Clipper® System



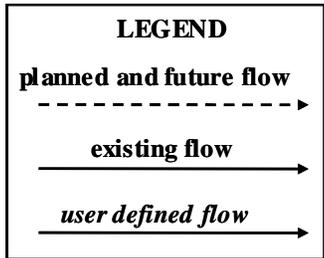
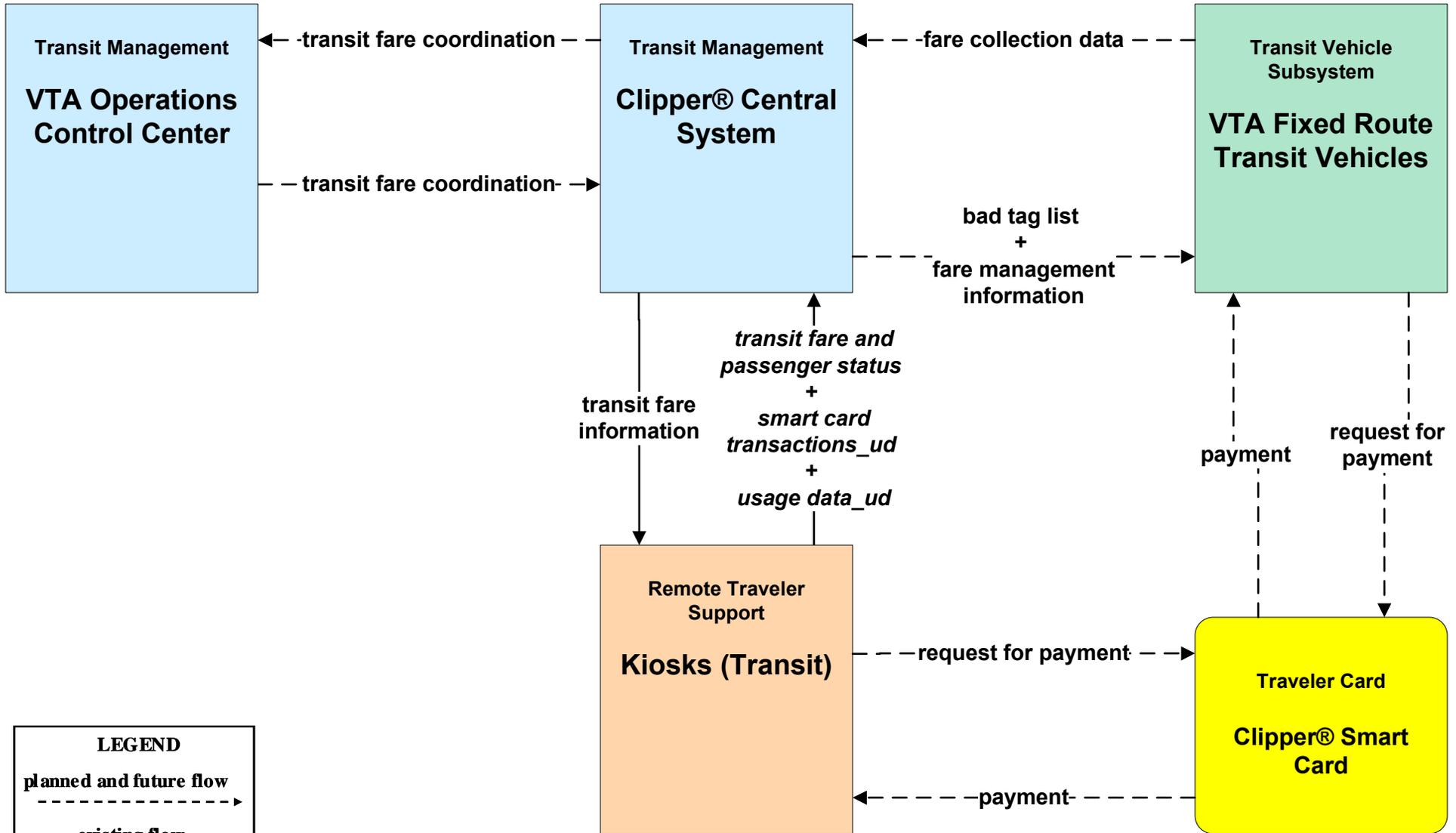
The Clipper® Website can be used to load additional value on the Clipper® Smart Card



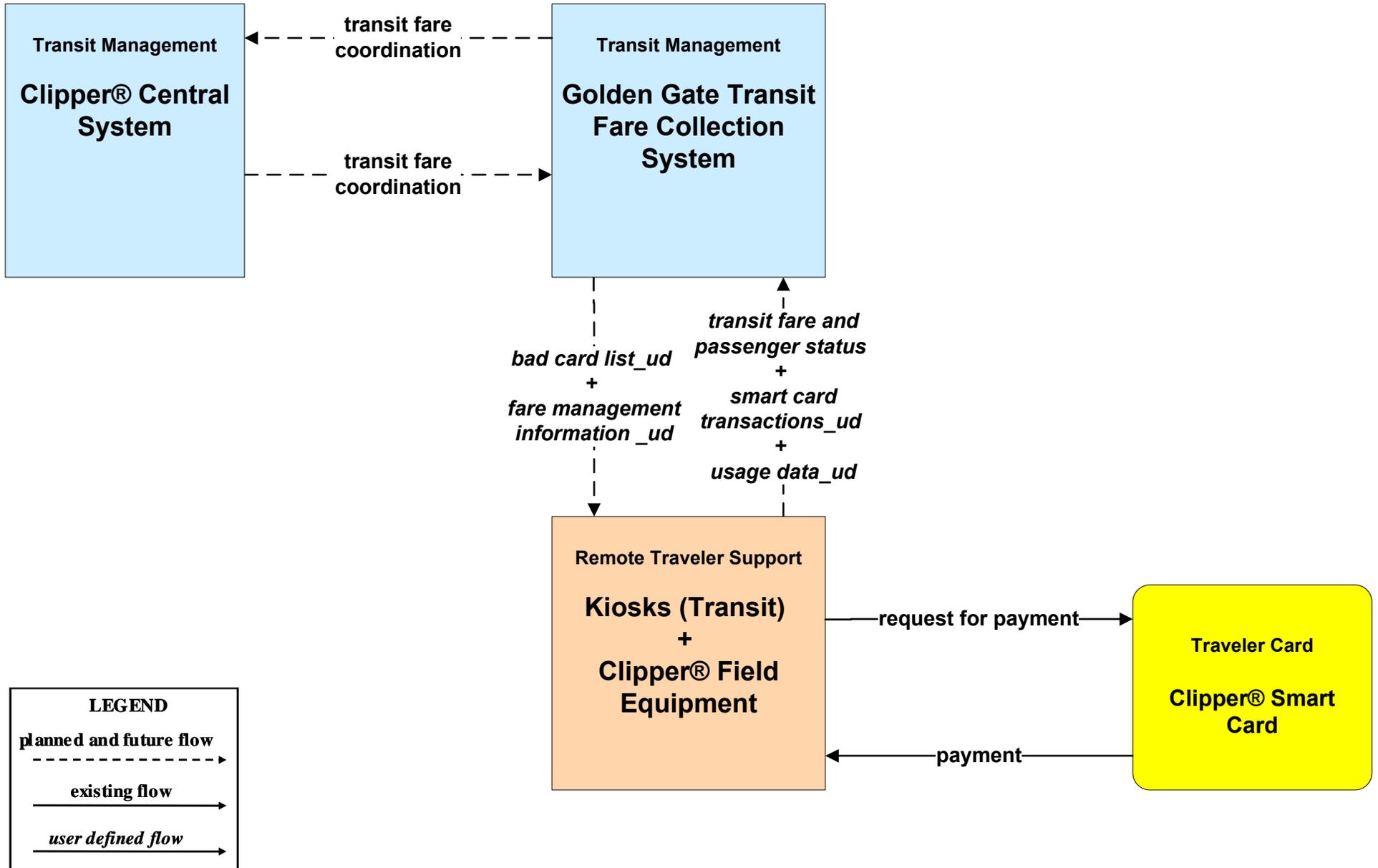
APTS04 - Transit Passenger and Fare Management Local City/County Transit Operations



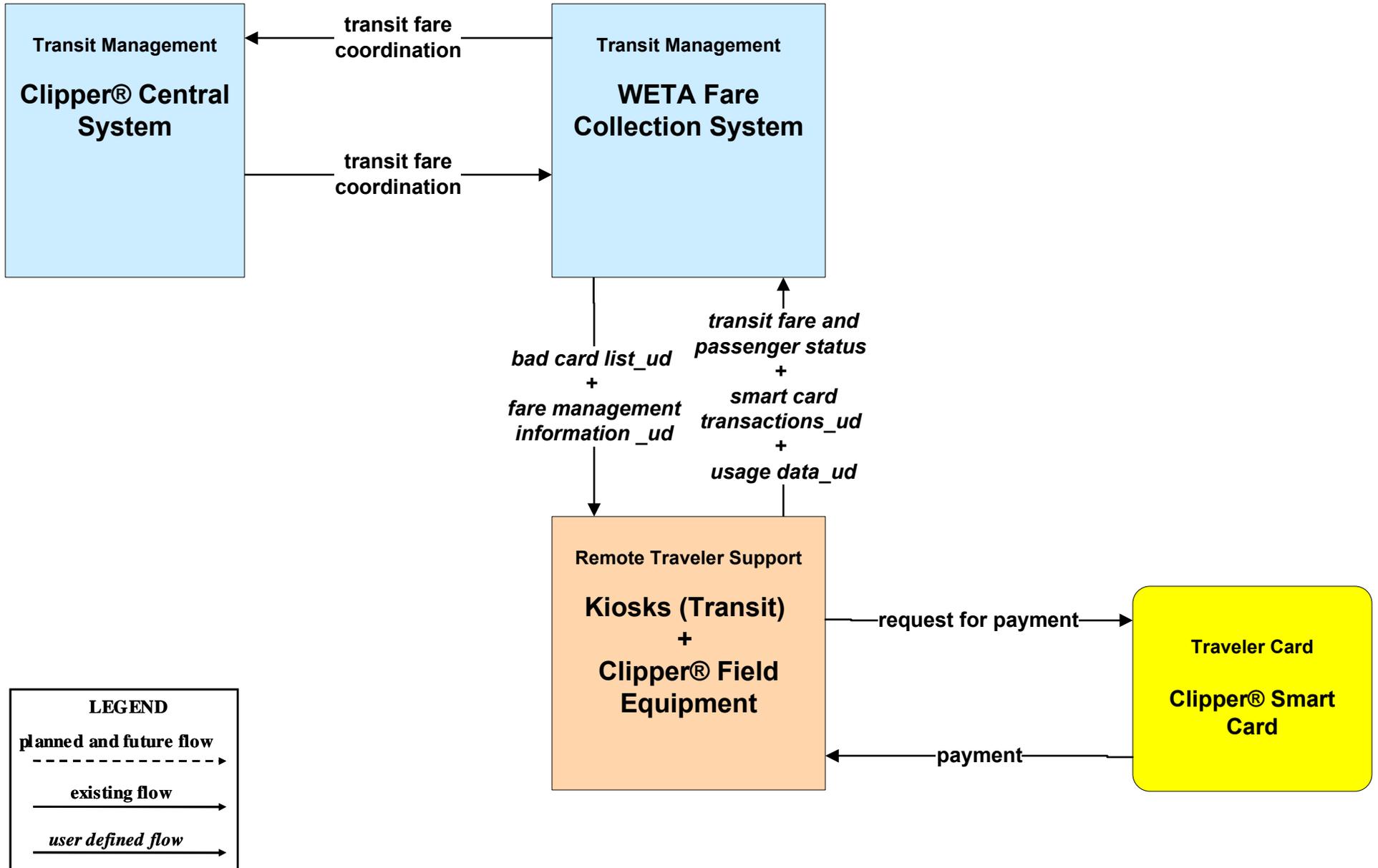
APTS04 - Transit Passenger and Fare Management VTA Transit Operations



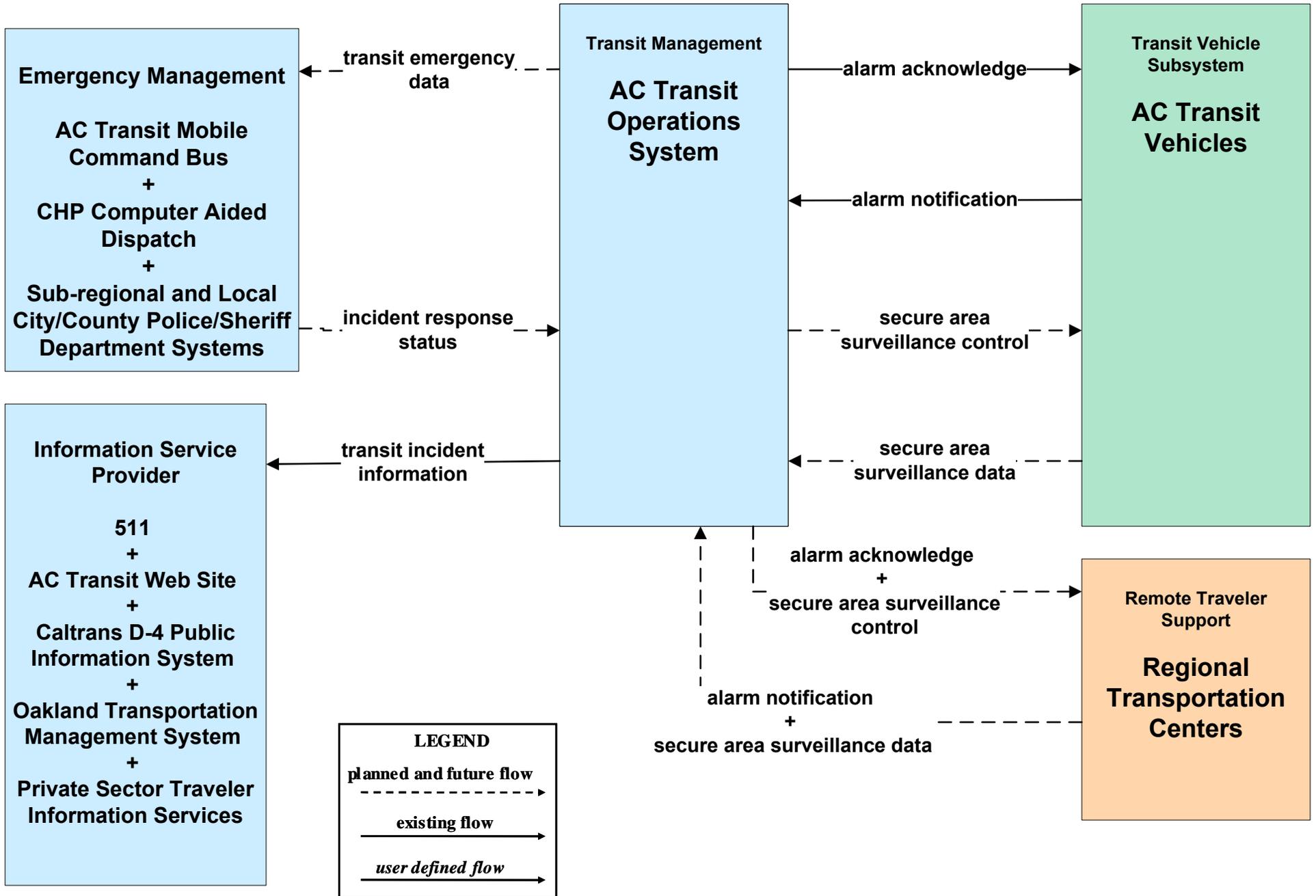
APTS04 - Transit Passenger and Fare Management Golden Gate Transit



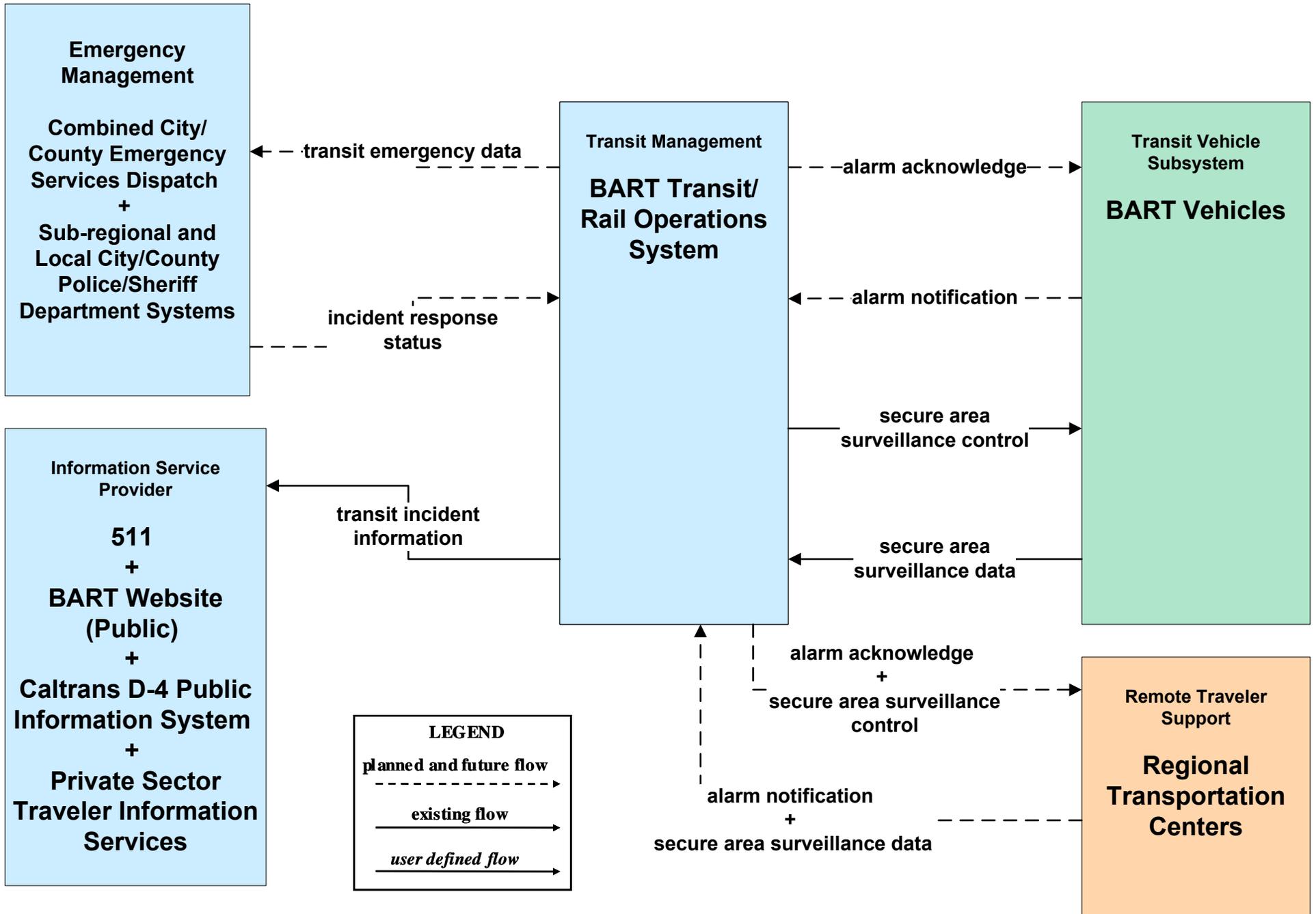
APTS04 - Transit Passenger and Fare Management WETA Ferries



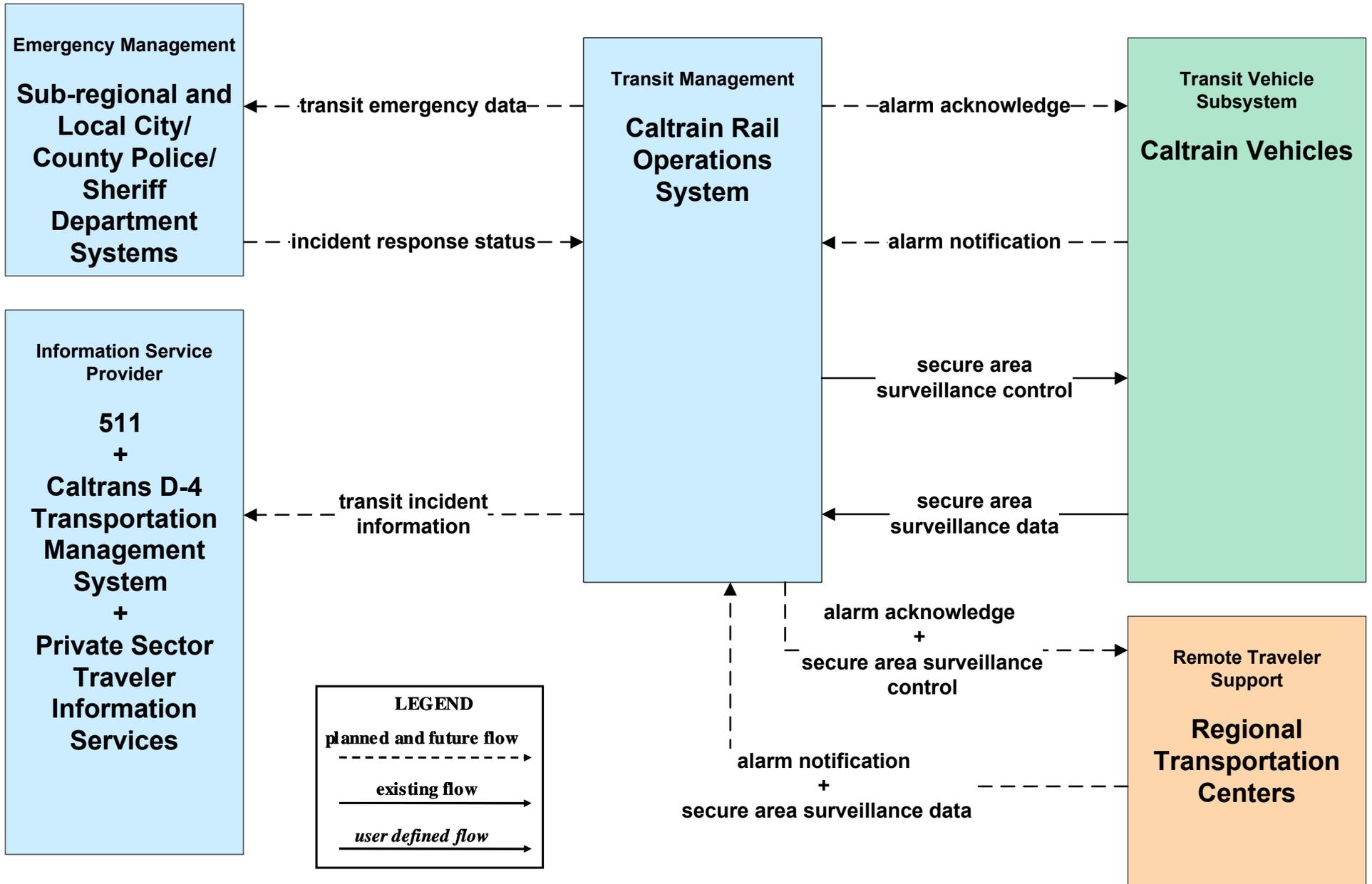
APTS05 - Transit Security AC Transit Operations



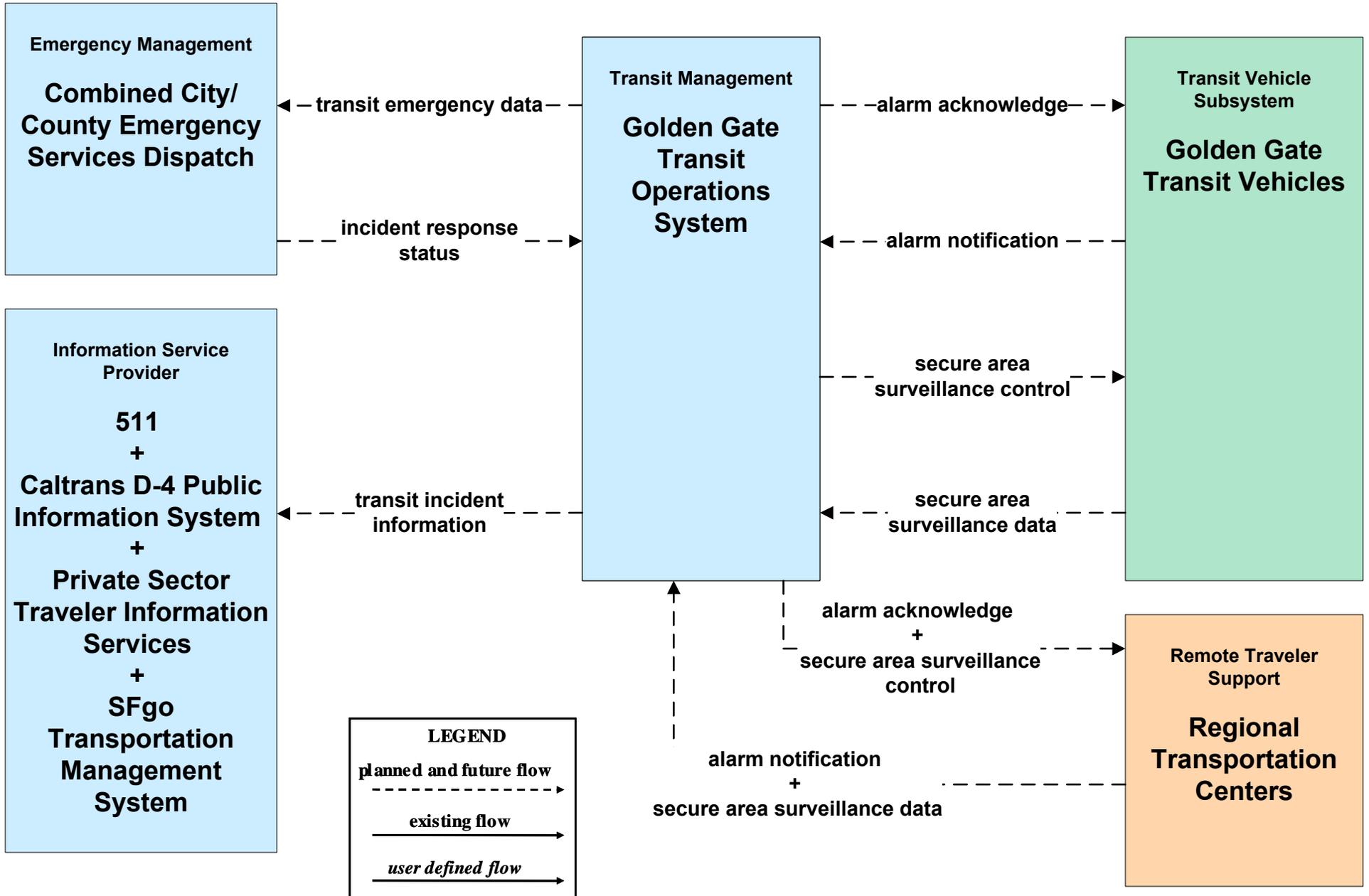
APTS05 - Transit Security BART Transit Operations



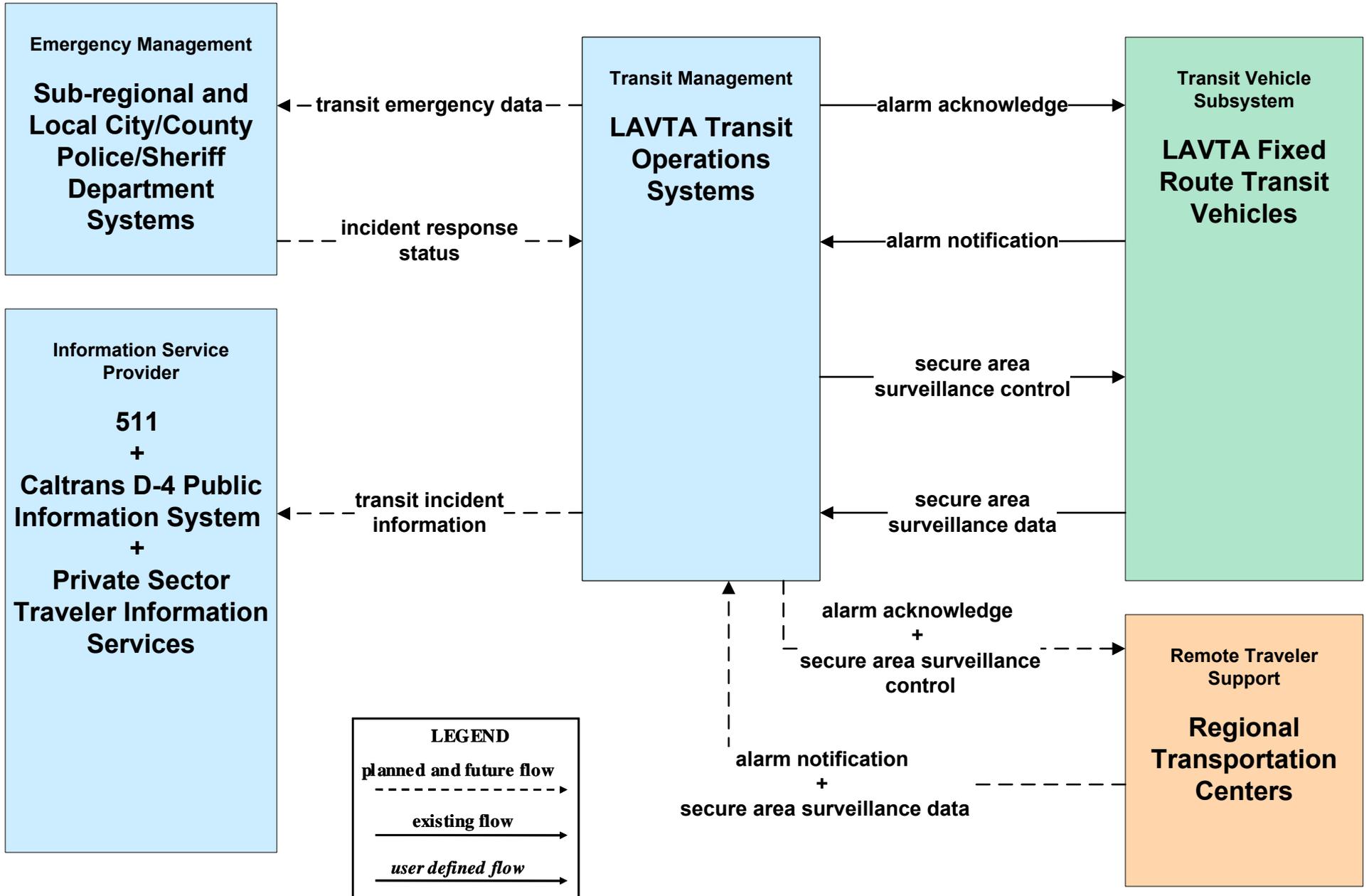
APTS05 - Transit Security Caltrain Rail Operations



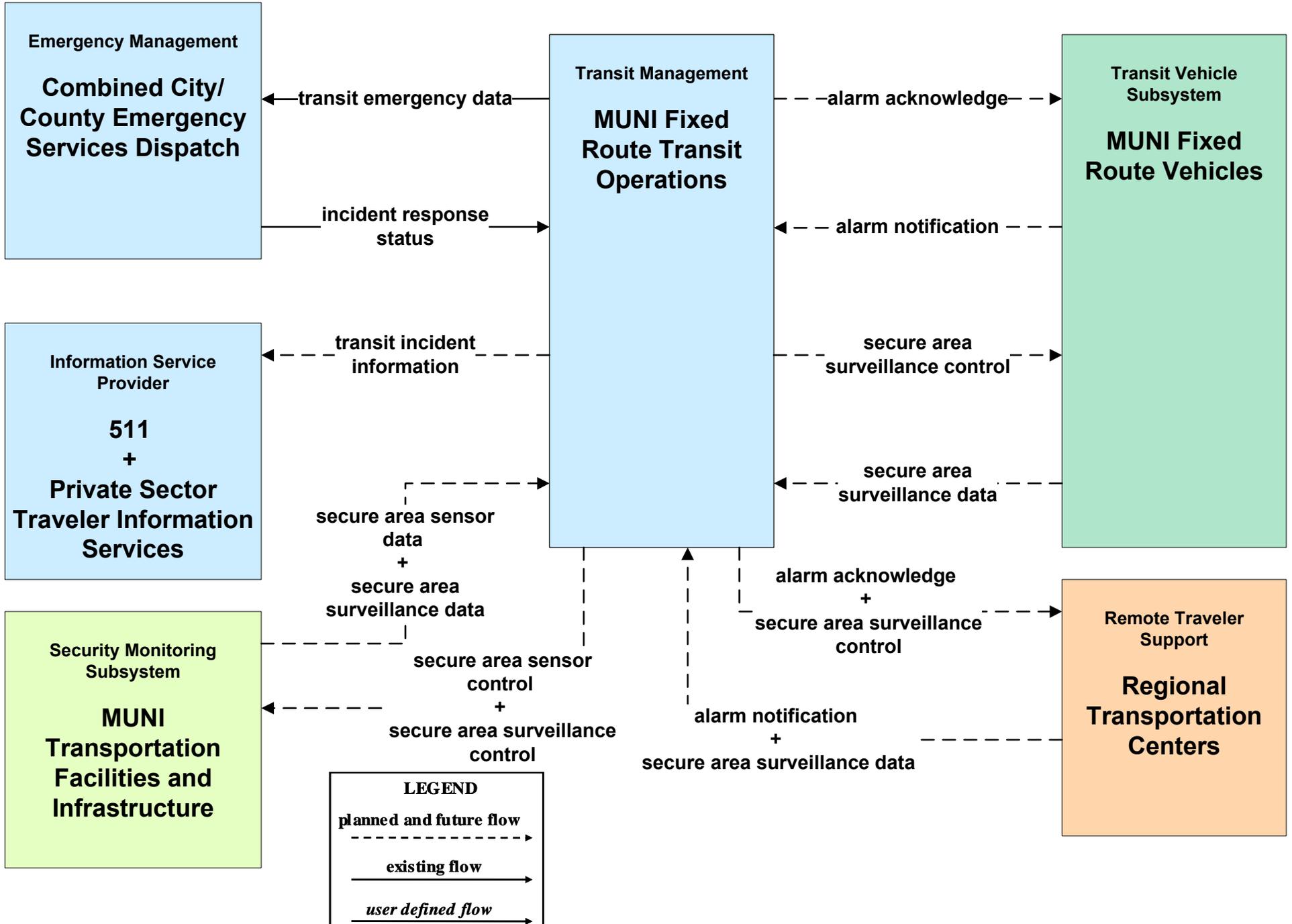
**APTS05 - Transit Security
Golden Gate Transit Operations**



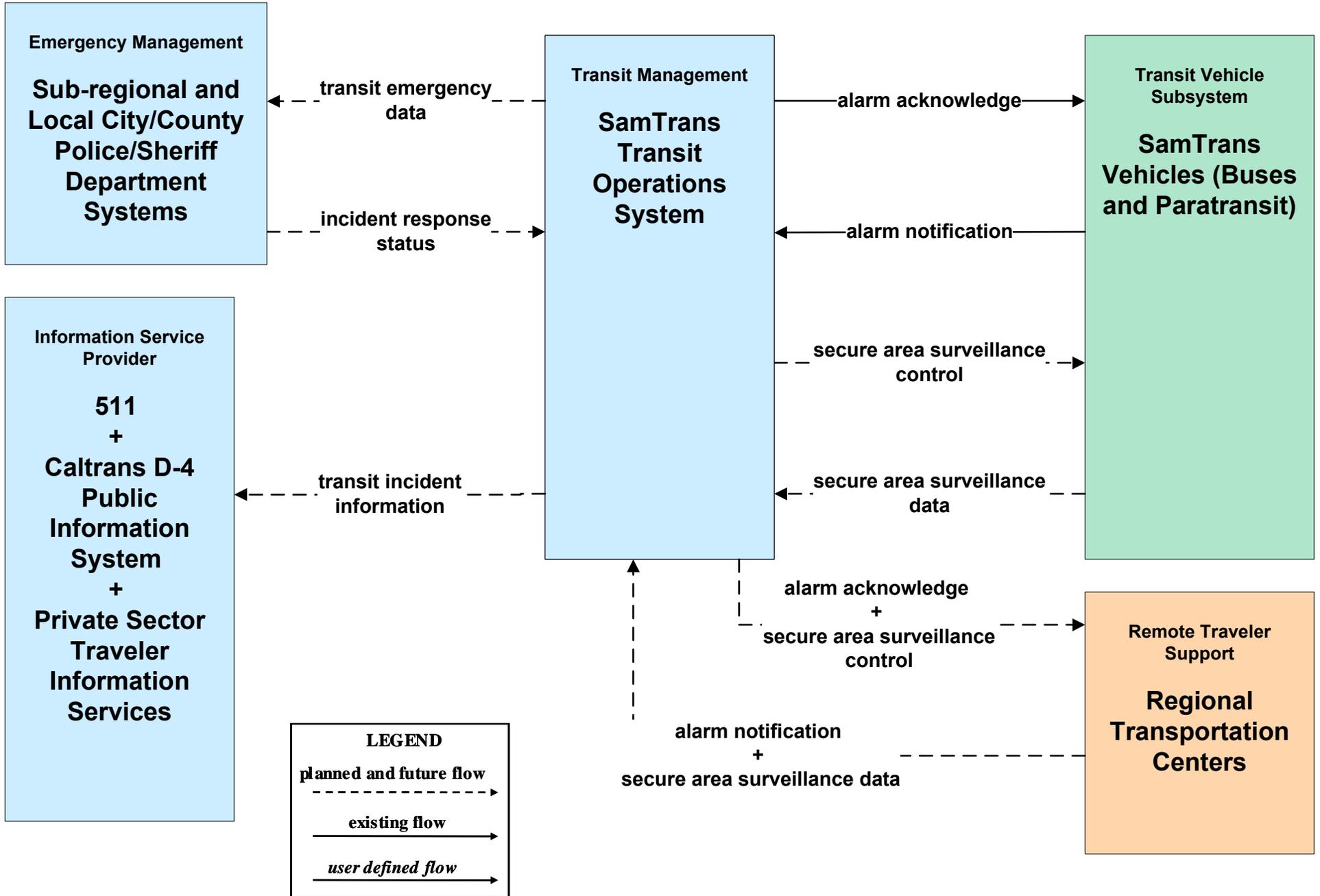
APTS05 - Transit Security LAVTA



APTS05 - Transit Security MUNI Transit Operations

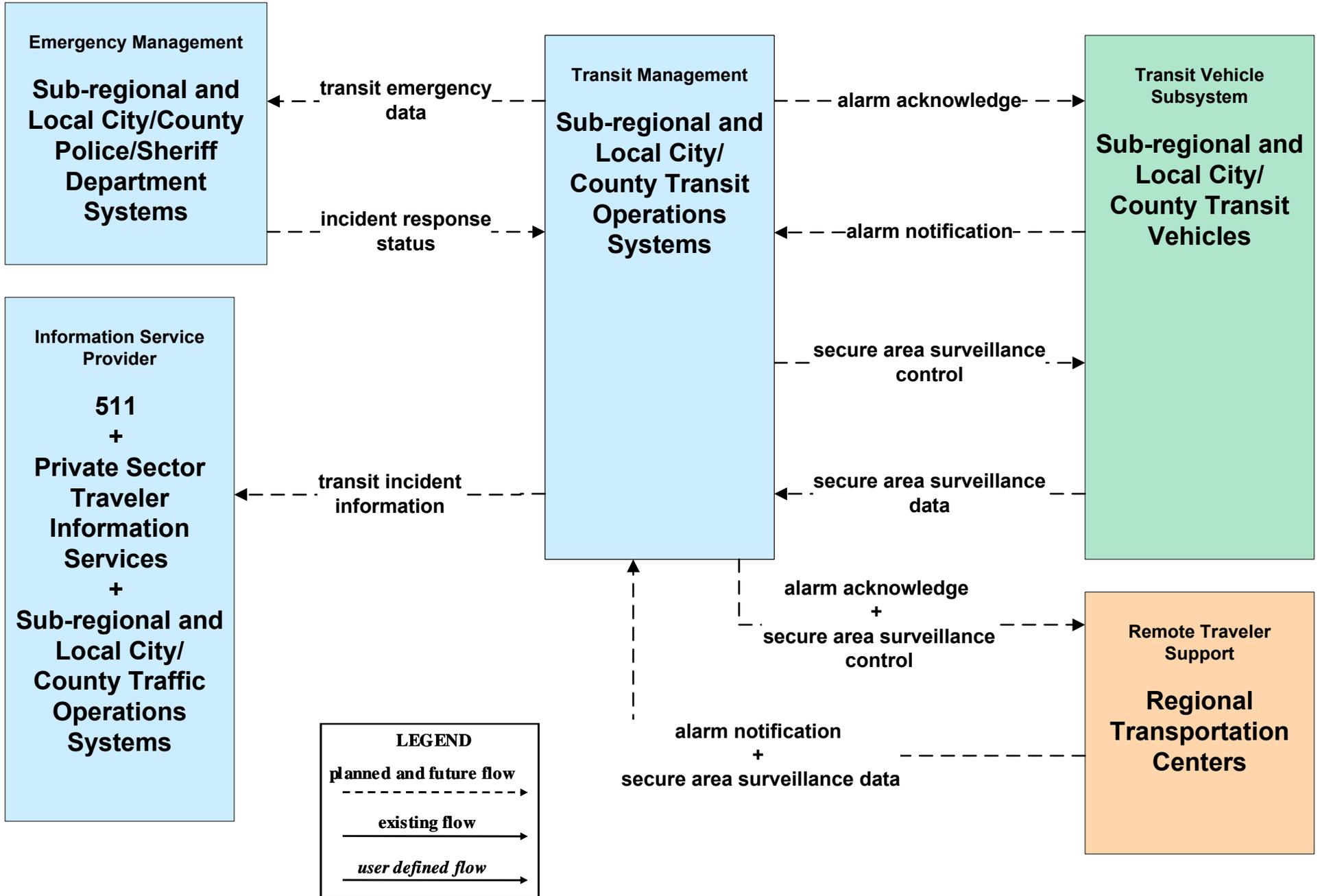


APTS05 - Transit Security SamTrans Transit Operations

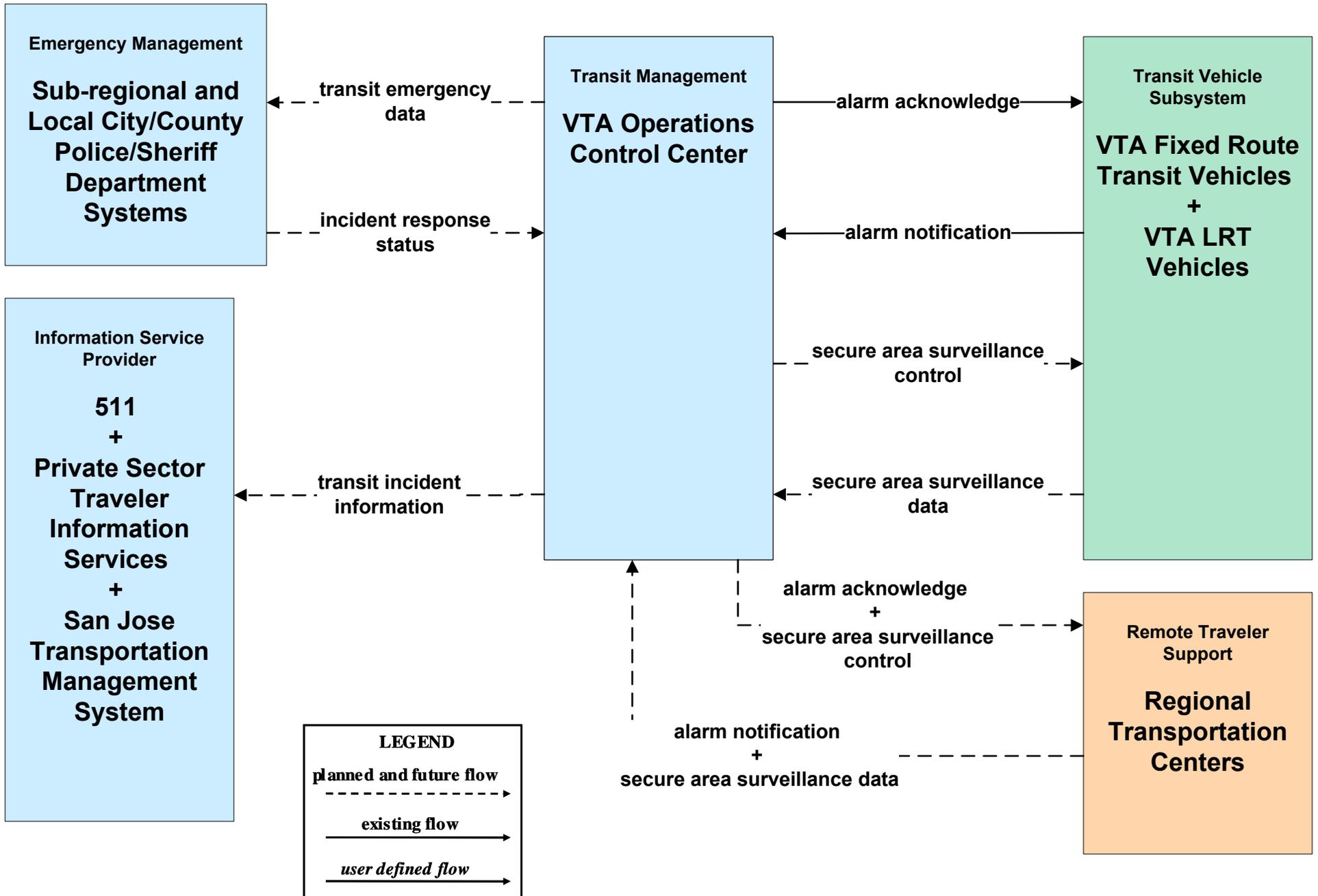


APTS05 - Transit Security

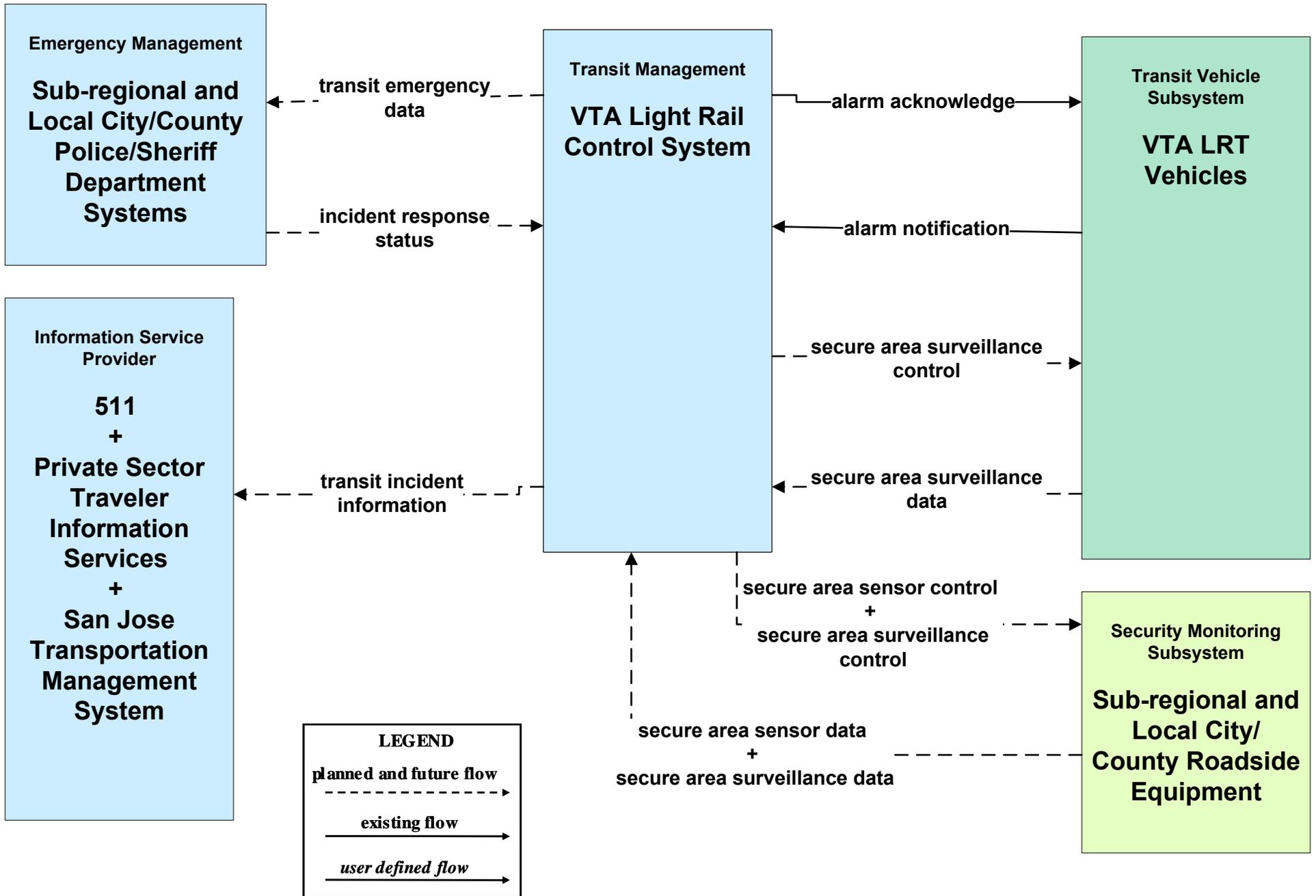
Local City/County Transit Operations



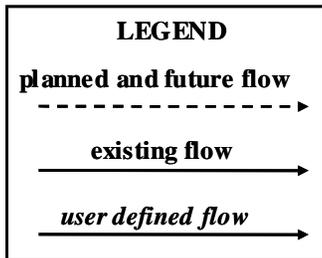
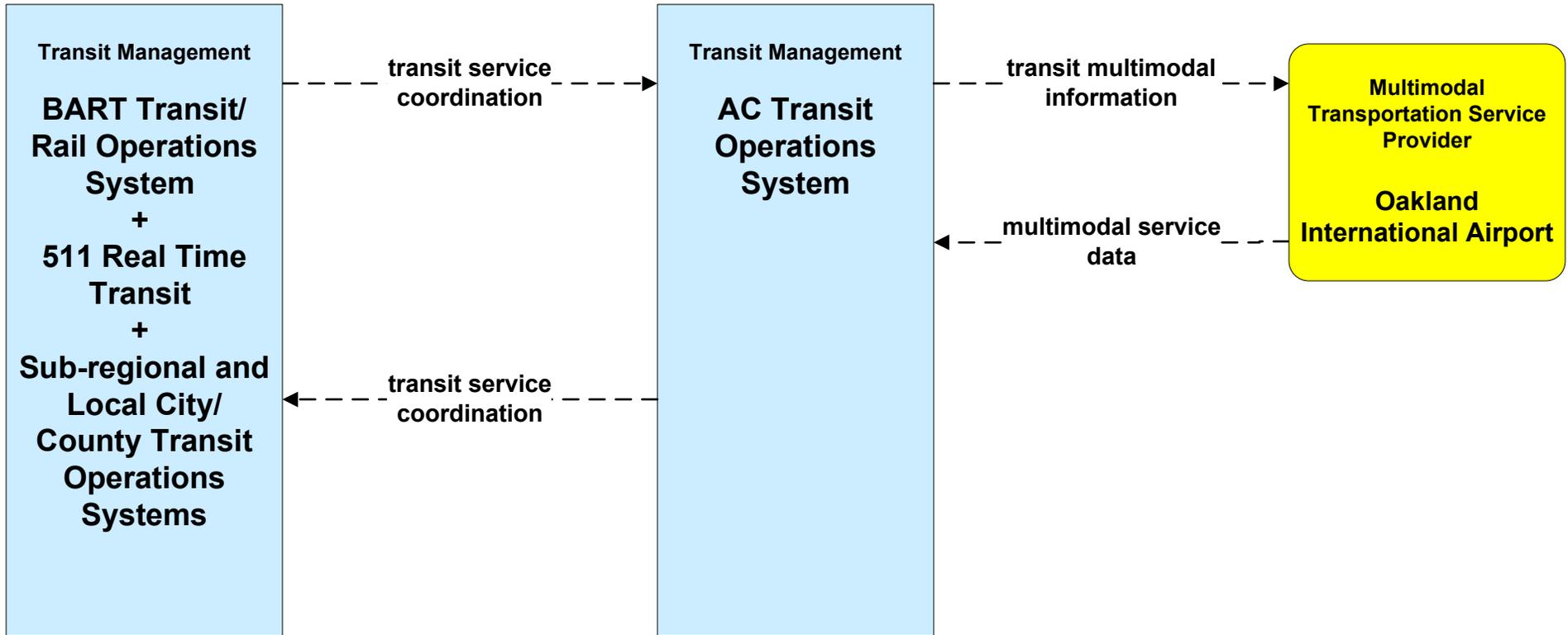
APTS05 - Transit Security VTA Transit Operations



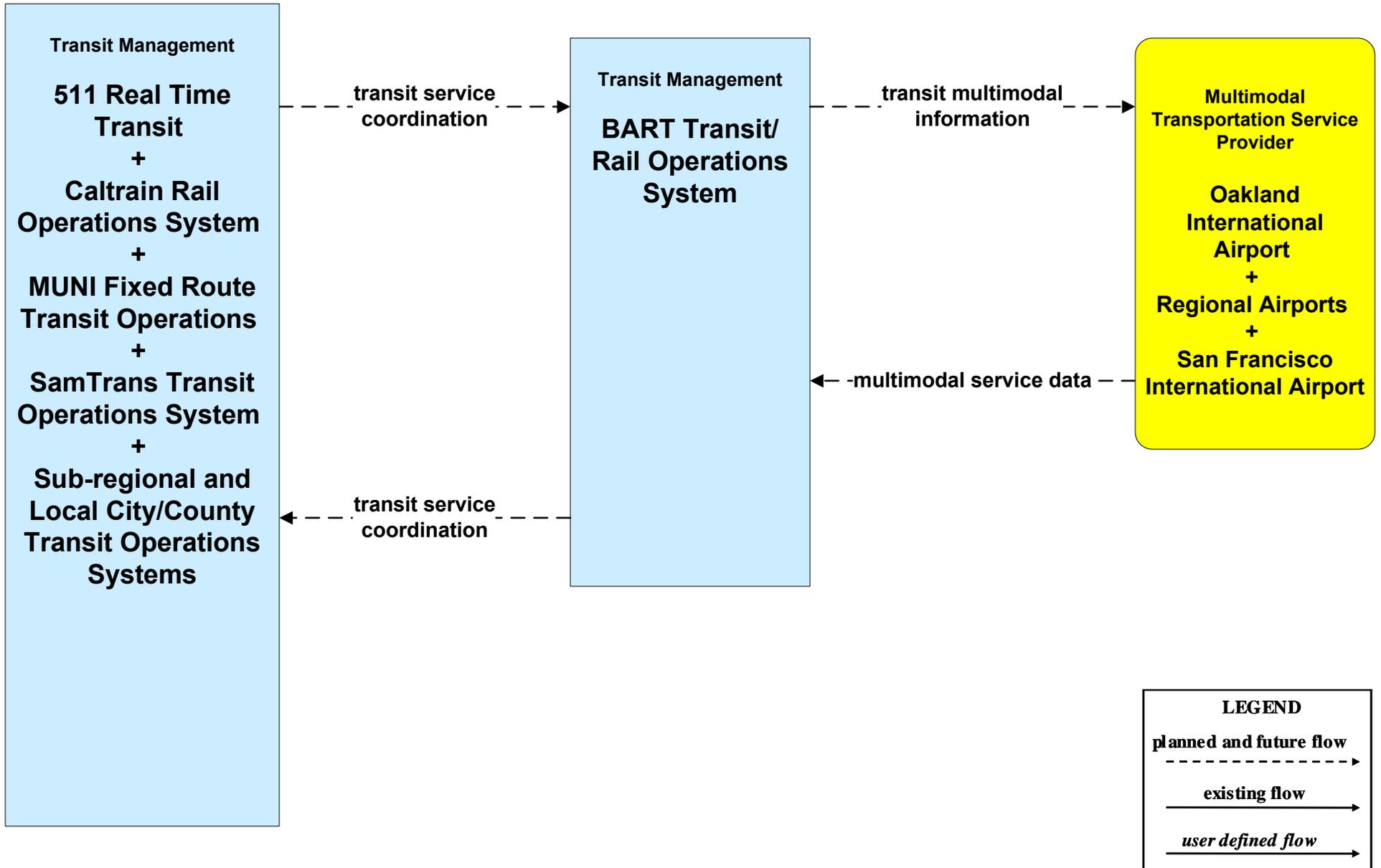
APTS05 - Transit Security VTA Light Rail



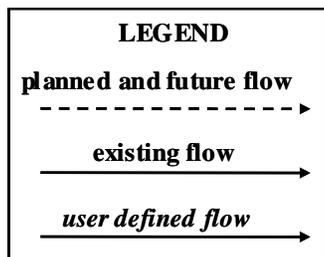
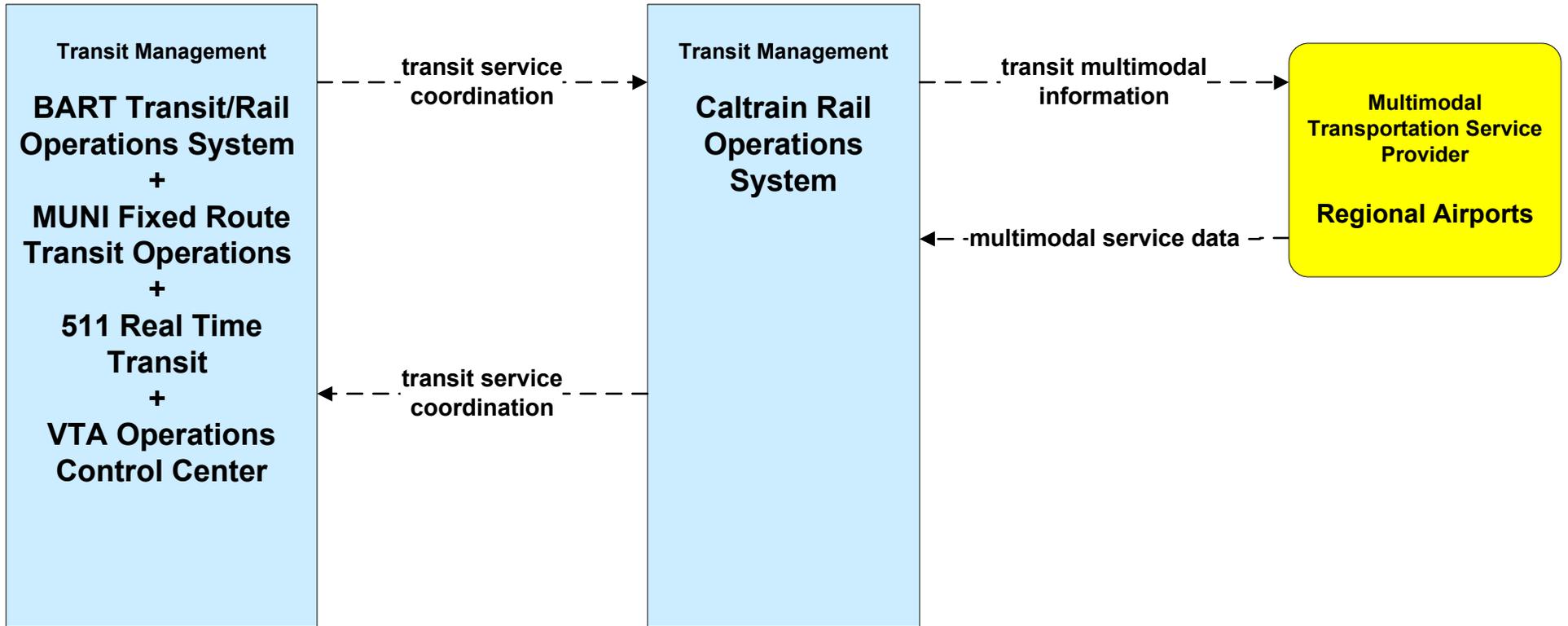
APTS07 - Multi-modal Coordination AC Transit Operations



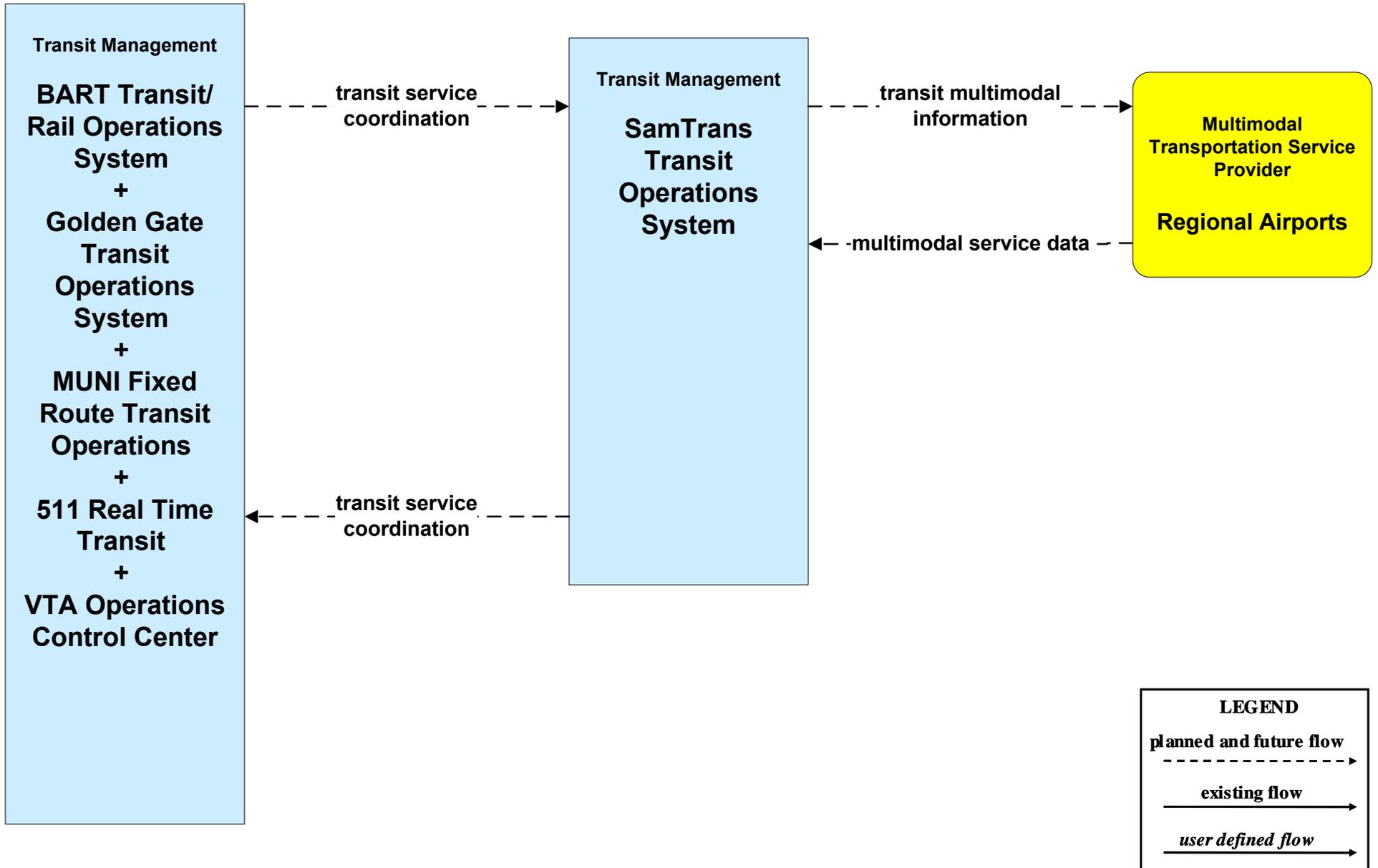
APTS07 - Multi-modal Coordination BART



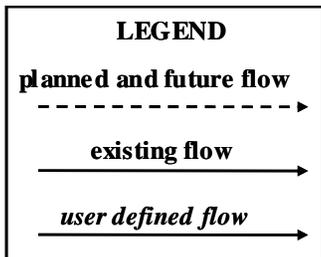
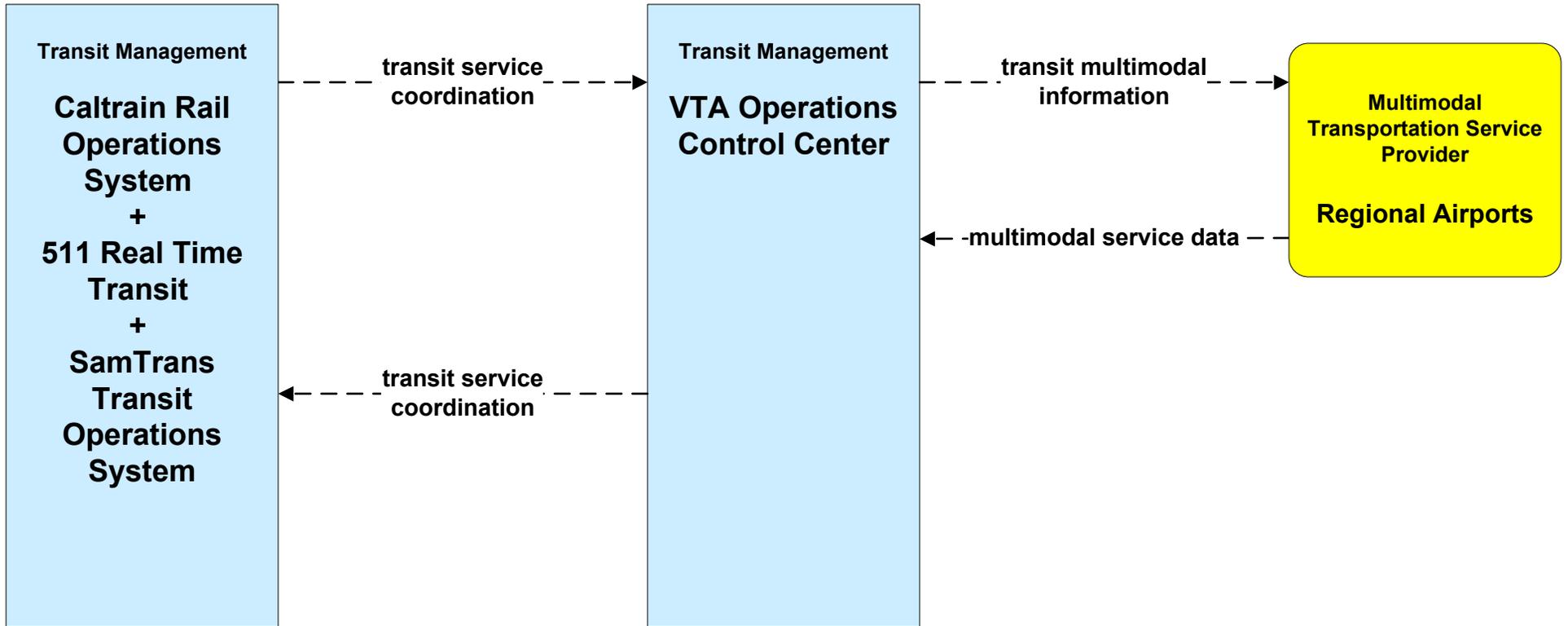
**APTS07 - Multi-modal Coordination
Caltrain**



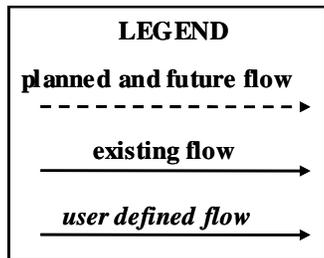
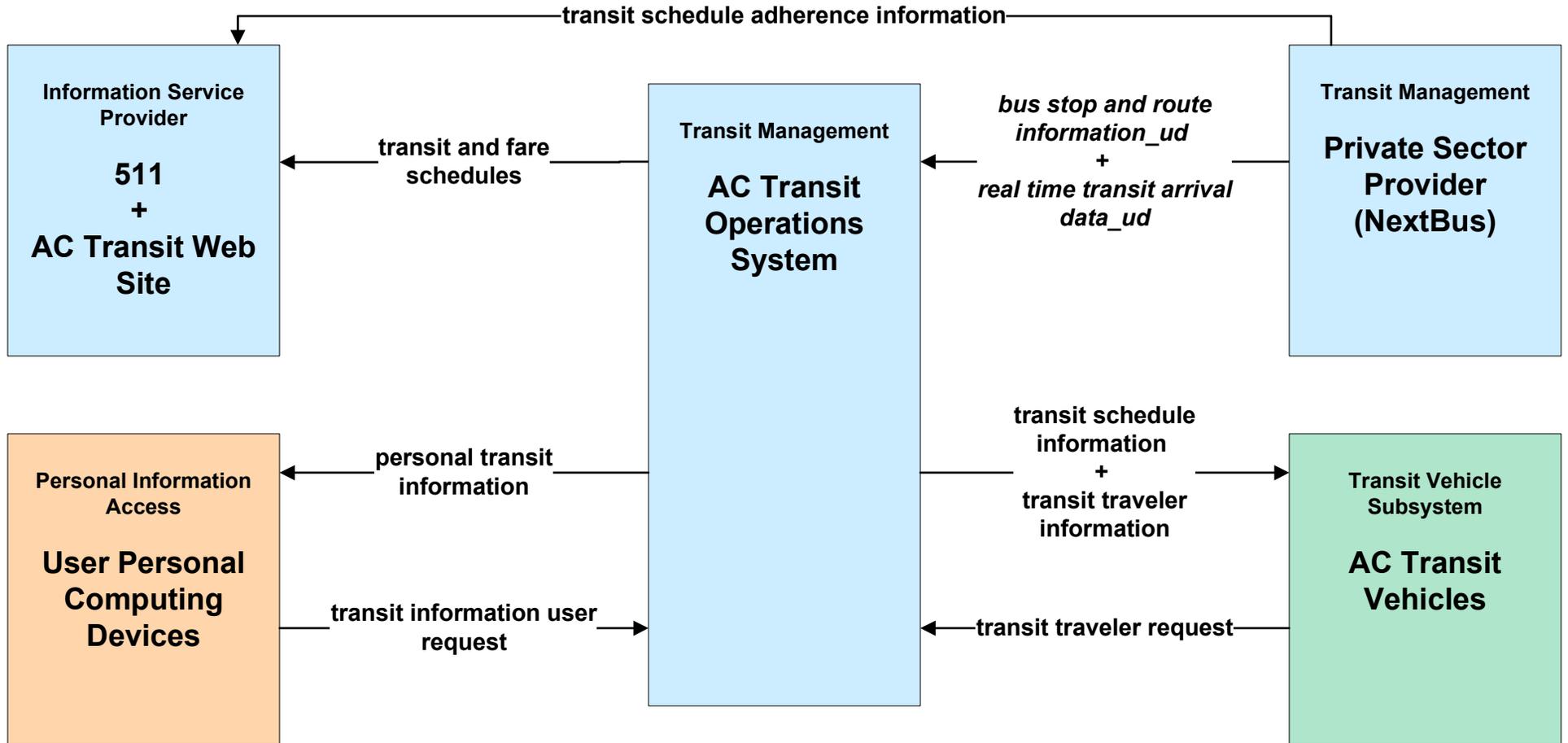
APTS07 - Multi-modal Coordination SamTrans Transit Operations



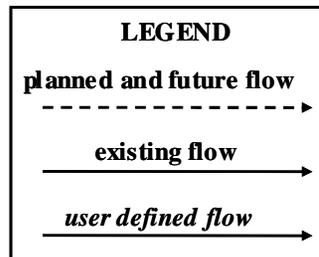
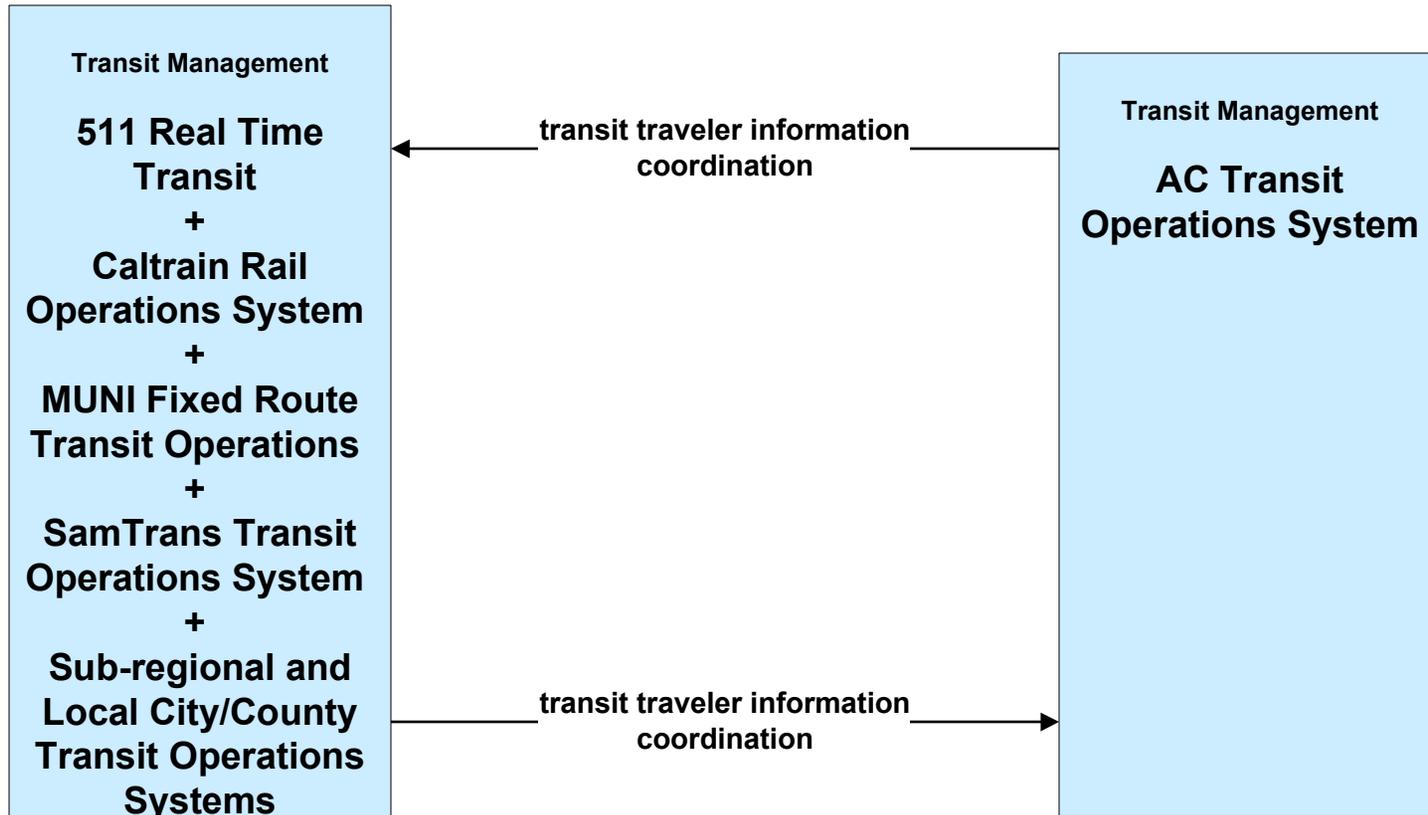
APTS07 - Multi-modal Coordination VTA Transit Operations



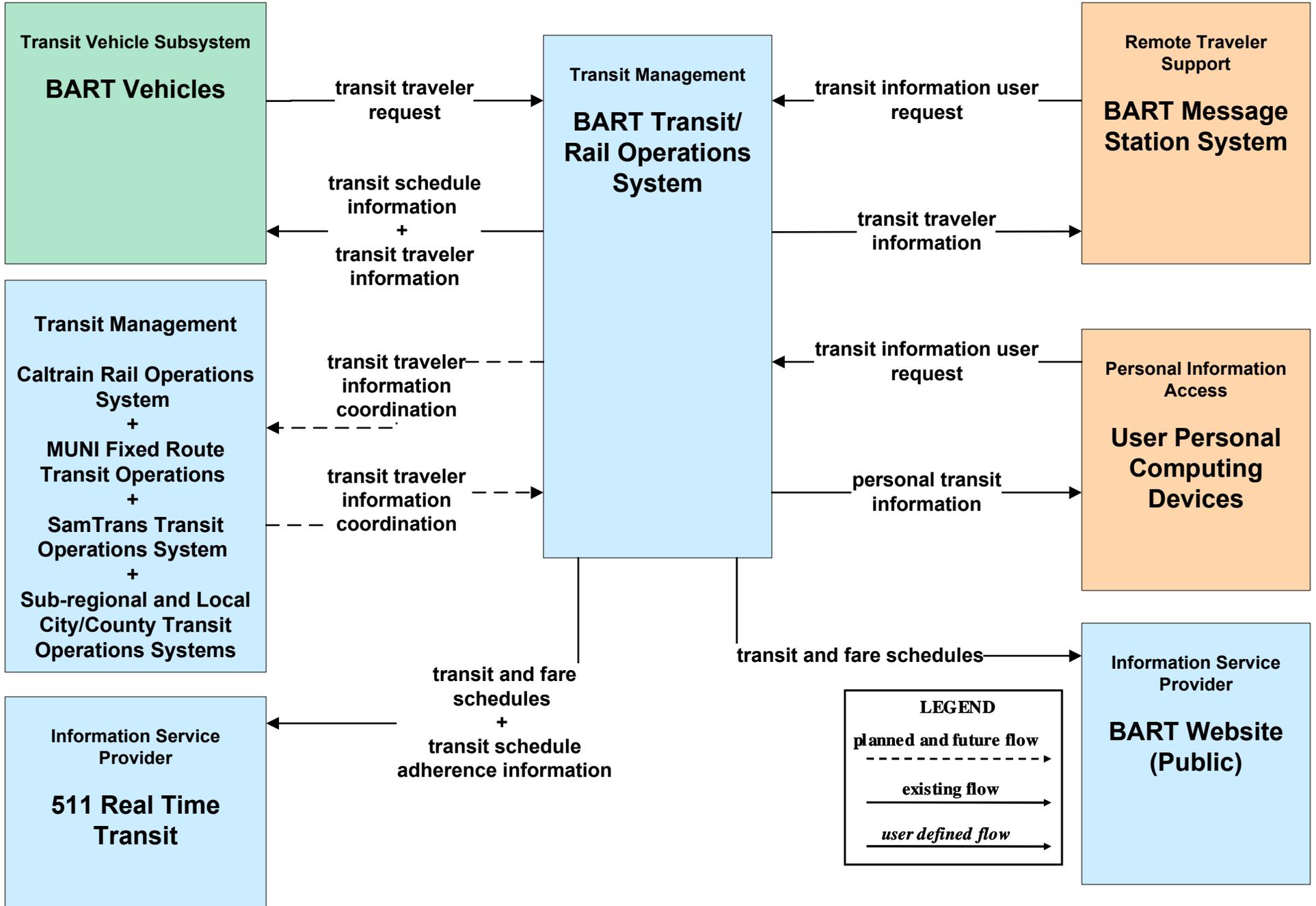
**APTS08 - Transit Traveler Information
AC Transit (1 of 2)**



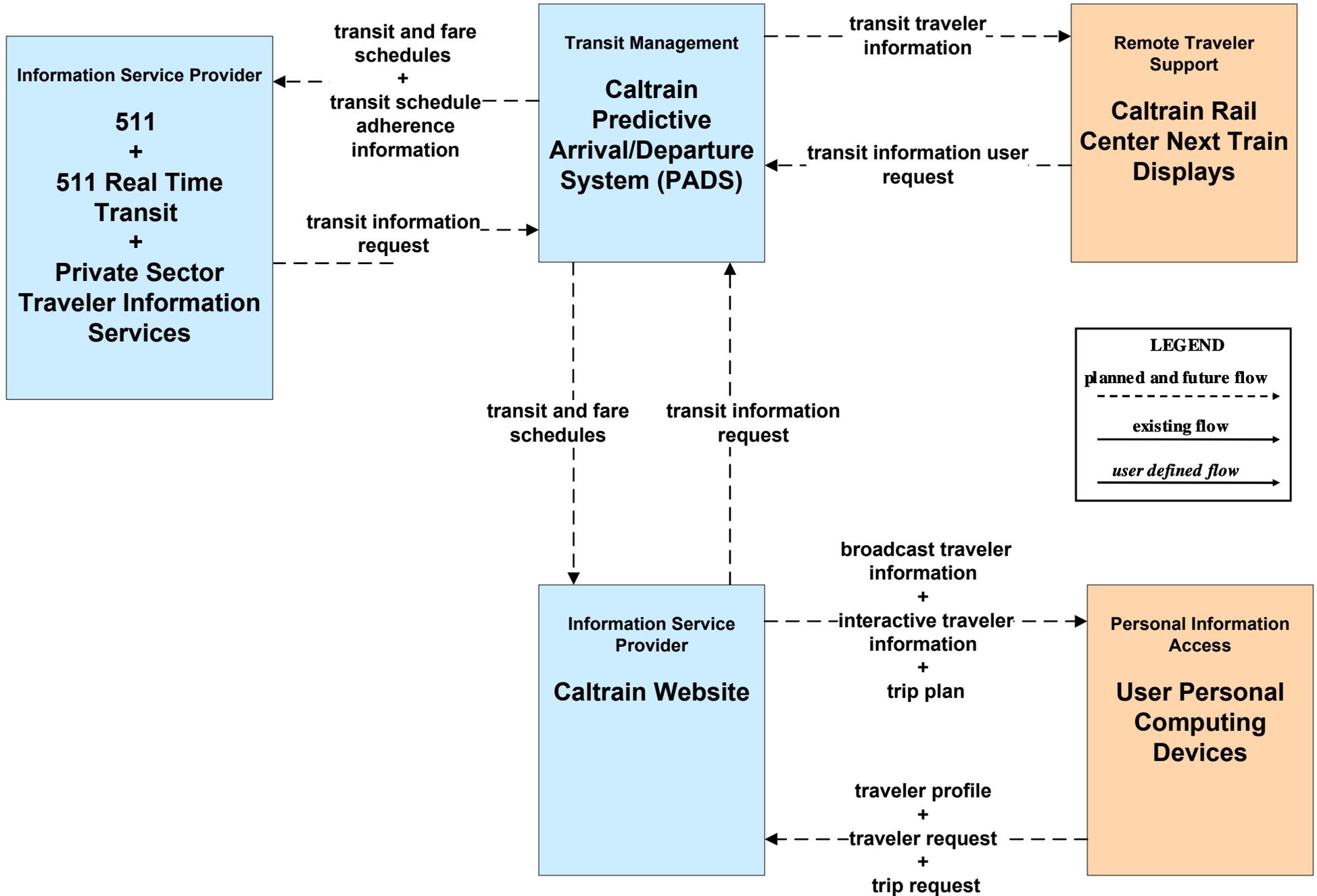
**APTS08 - Transit Traveler Information
AC Transit (2 of 2)**



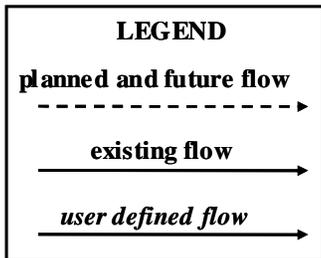
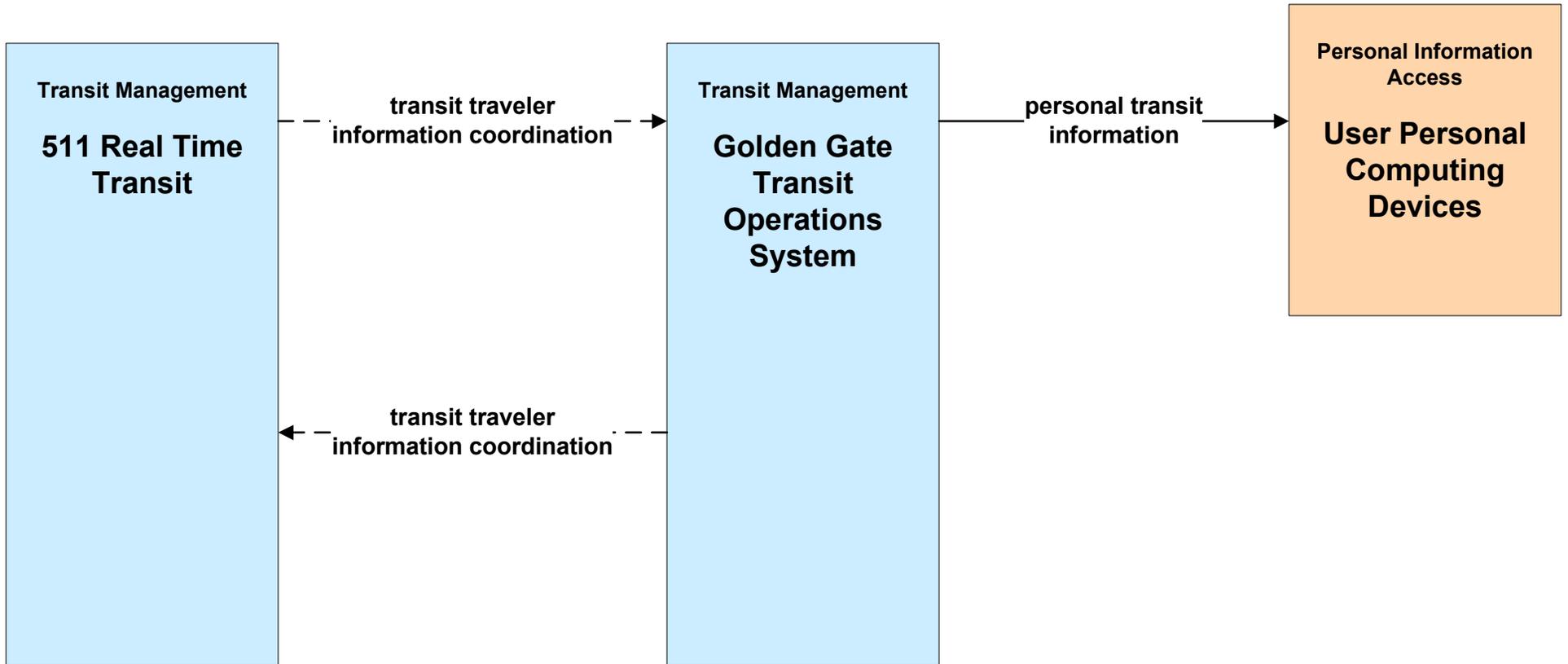
APTS08 - Transit Traveler Information BART Transit Operations



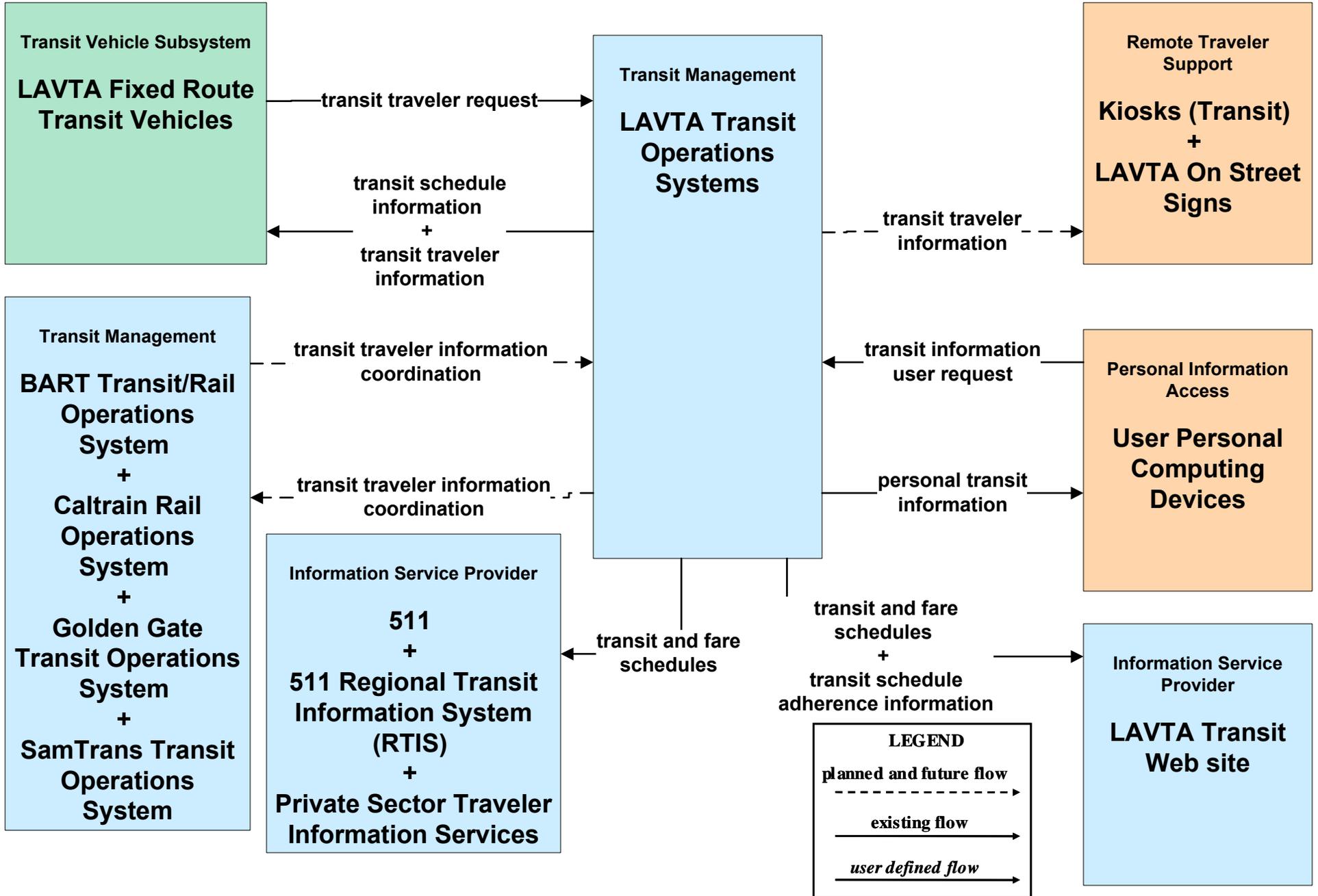
APTS08 - Transit Traveler Information Caltrain



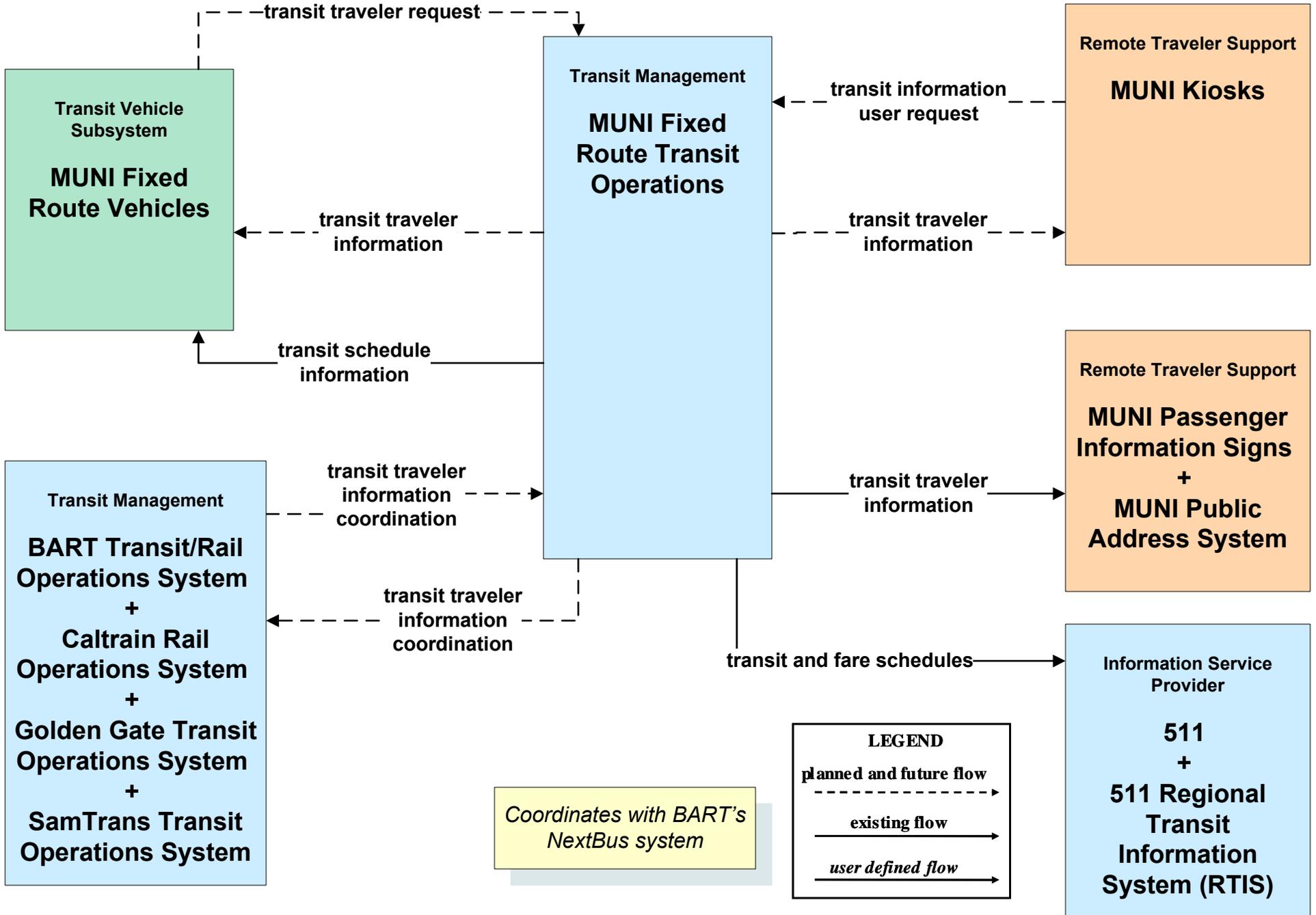
**APTS08 - Transit Traveler Information
Golden Gate Transit Operations**



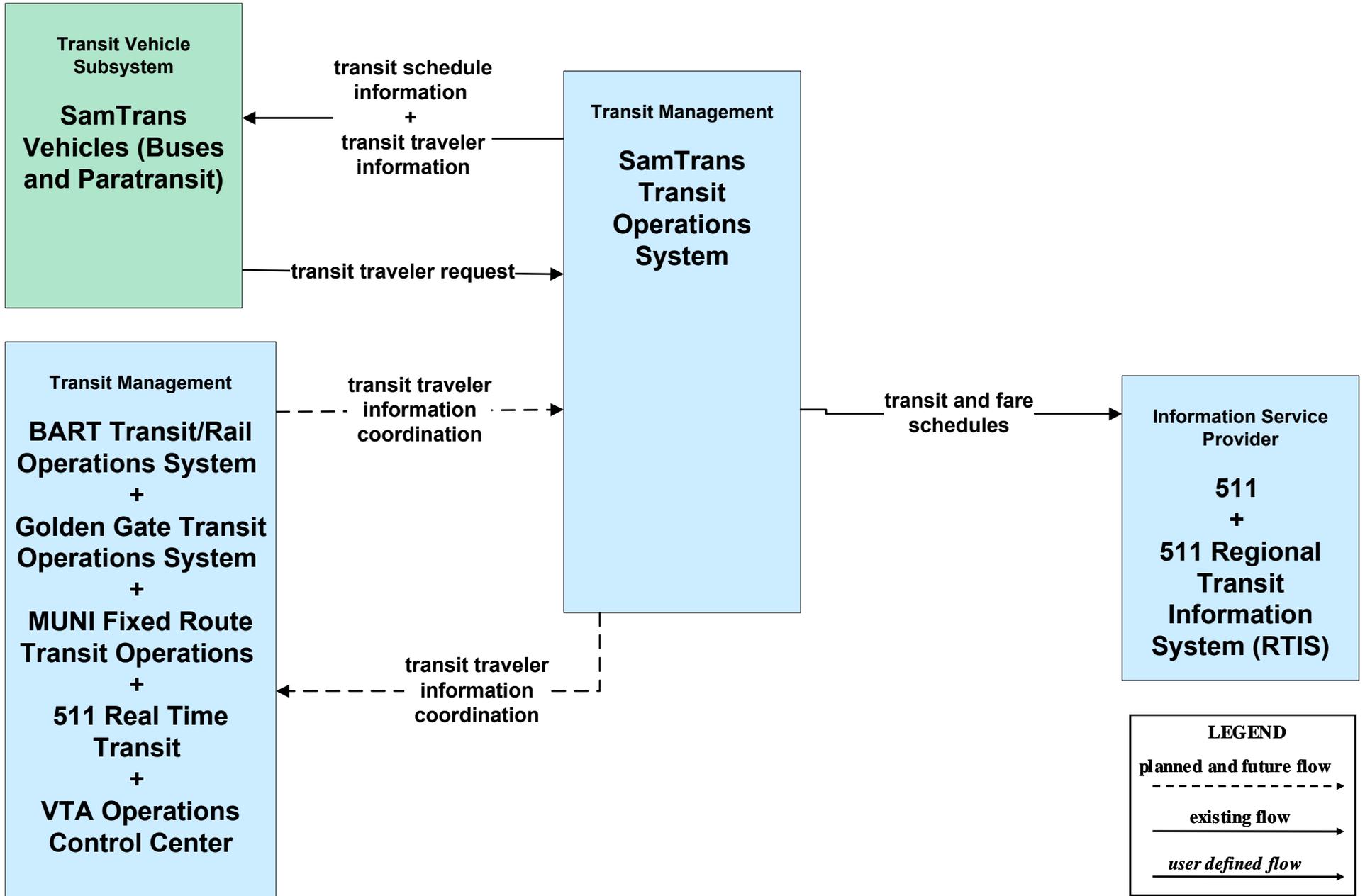
APTS08 - Transit Traveler Information LAVTA Transit Operations



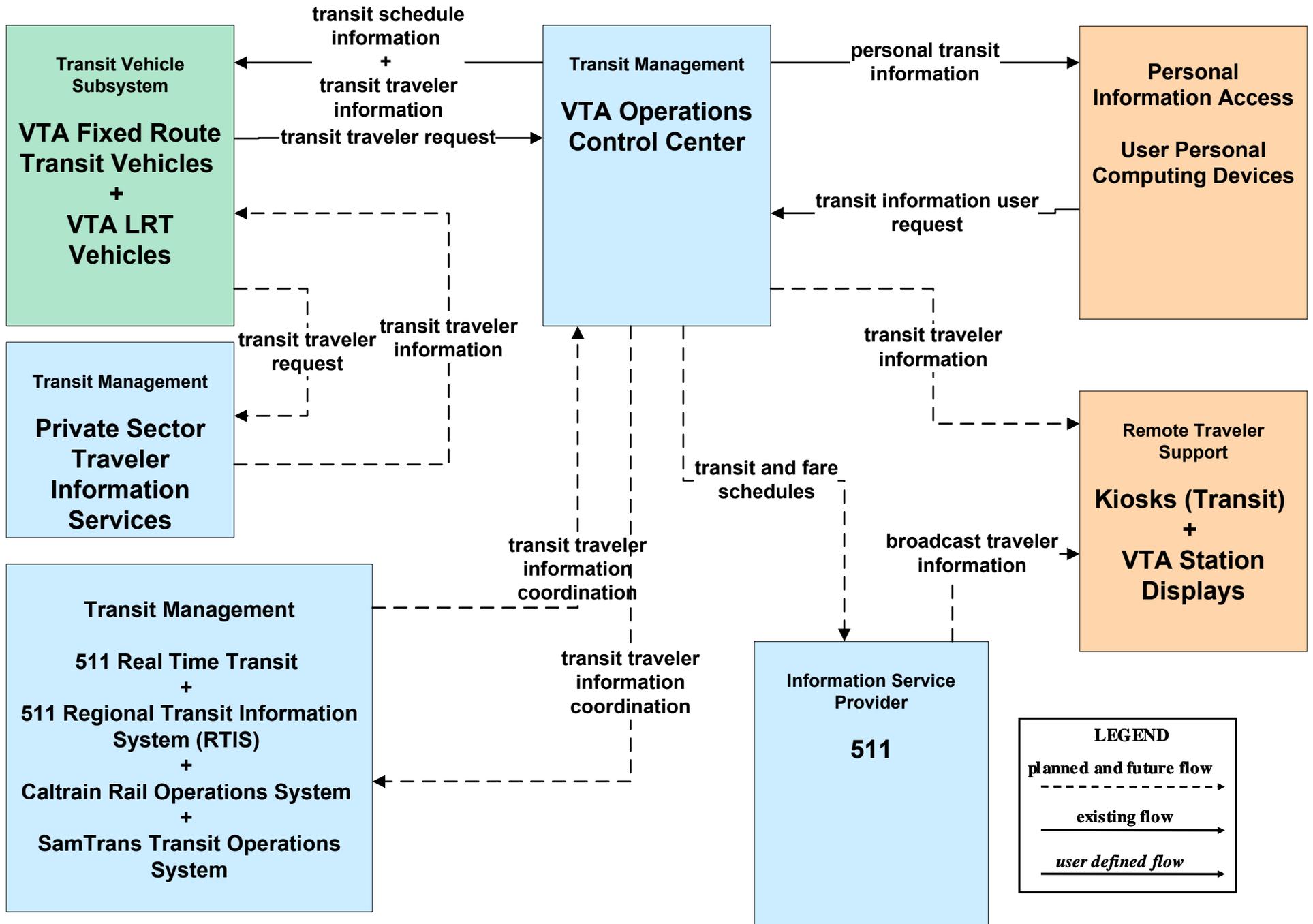
APTS08 - Transit Traveler Information MUNI Transit Operations



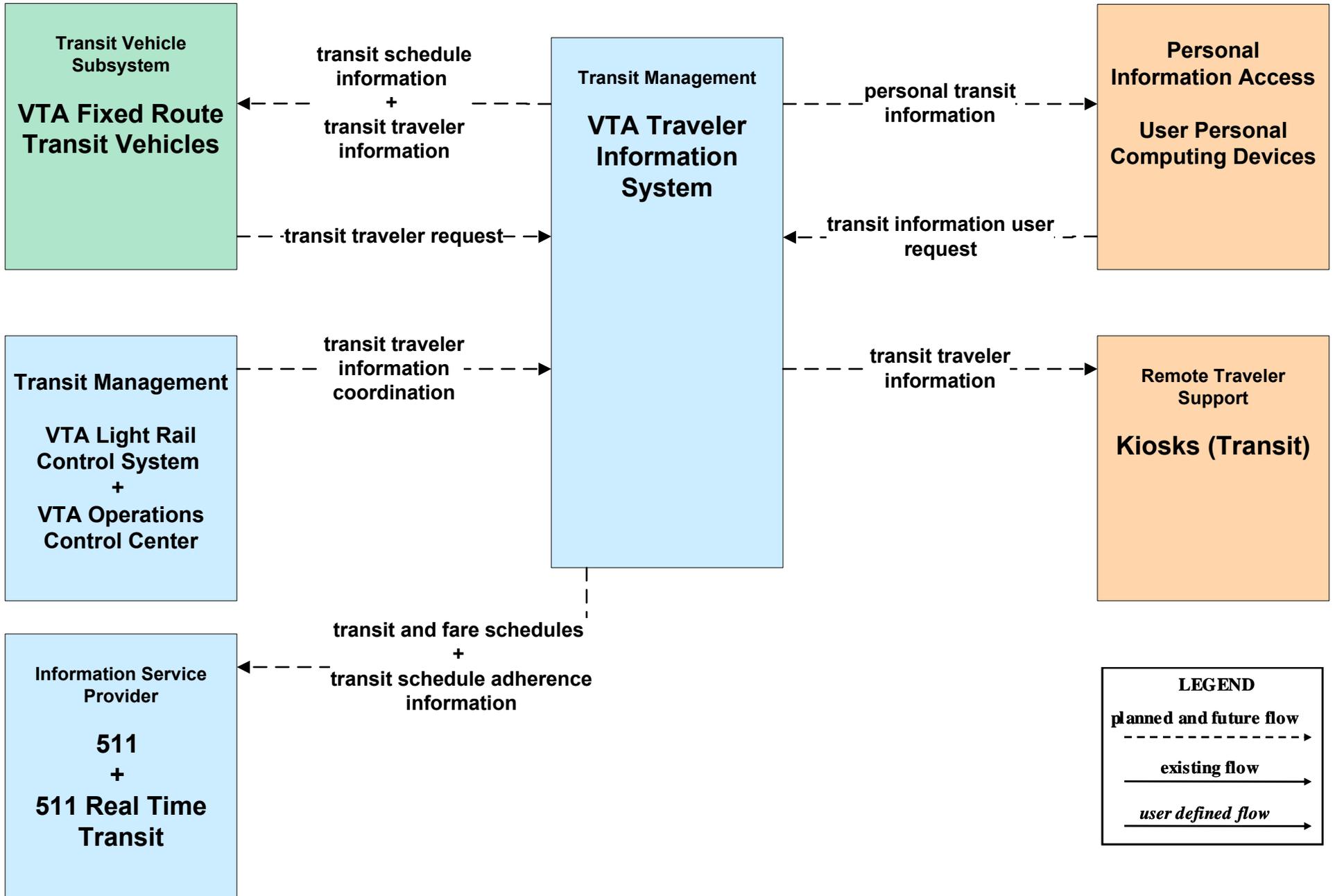
APTS08 - Transit Traveler Information SamTrans Transit Operations



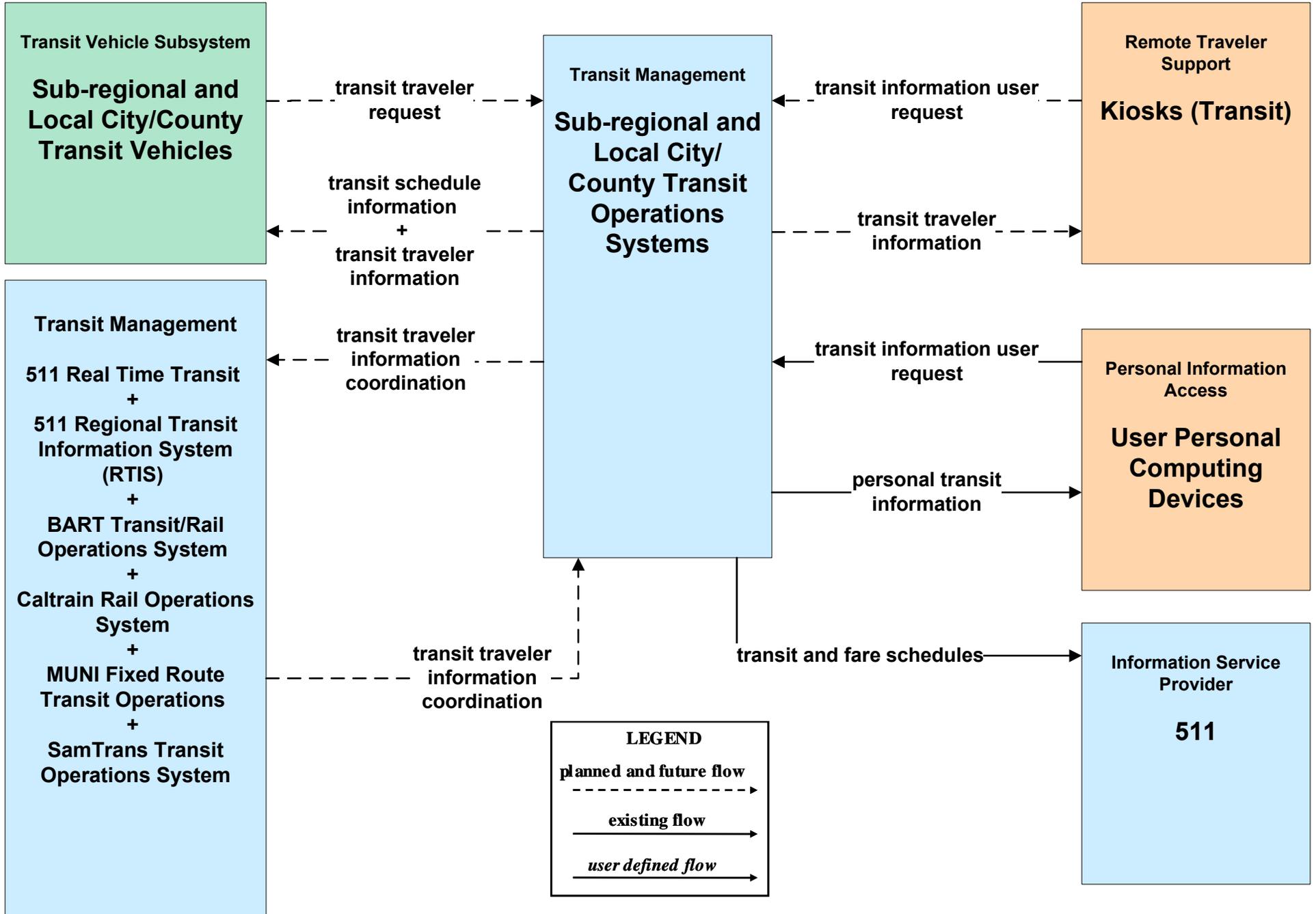
APTS08 - Transit Traveler Information VTA Transit Operations



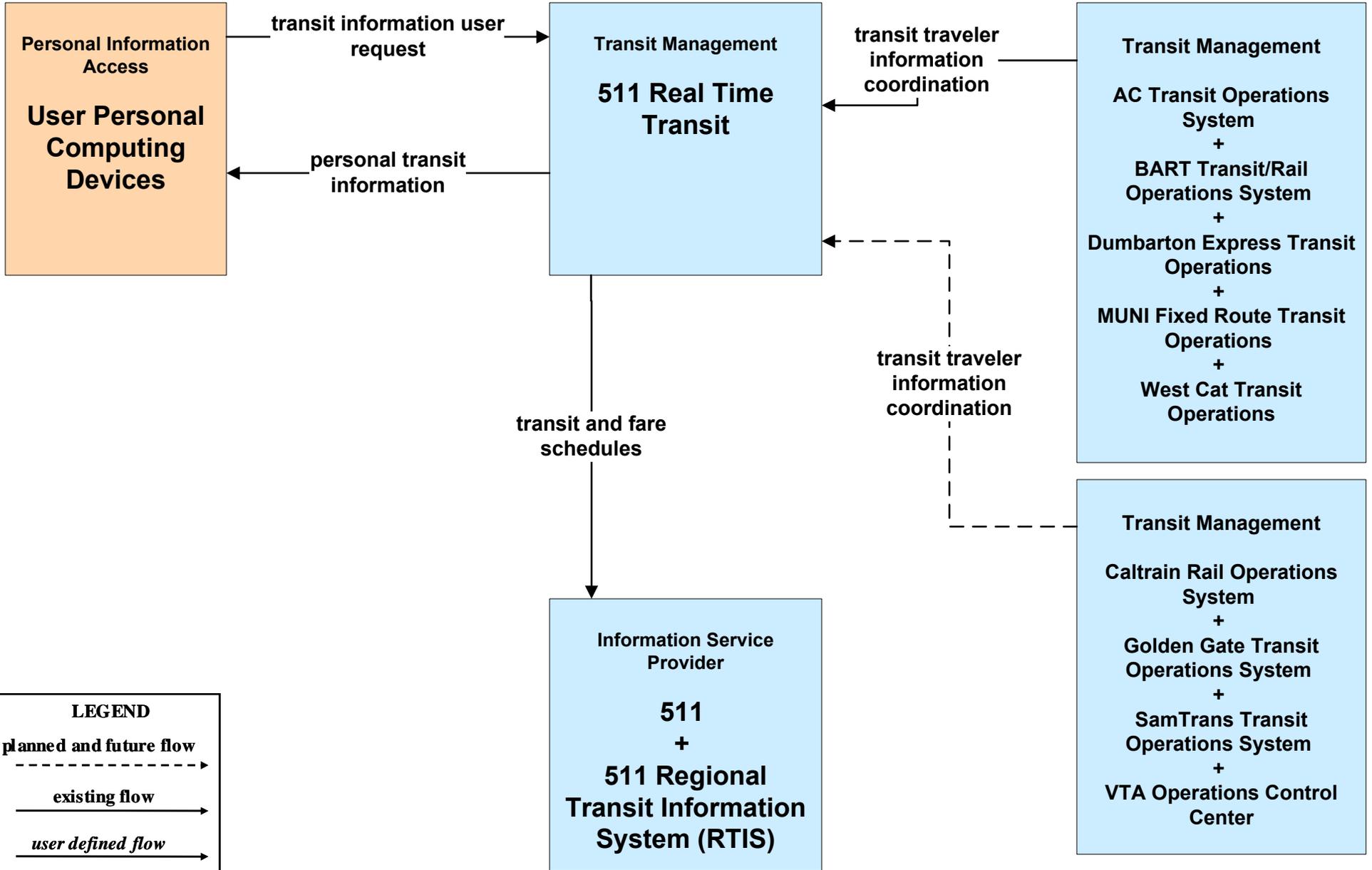
**APTS08 - Transit Traveler Information
VTA Traveler Information System**



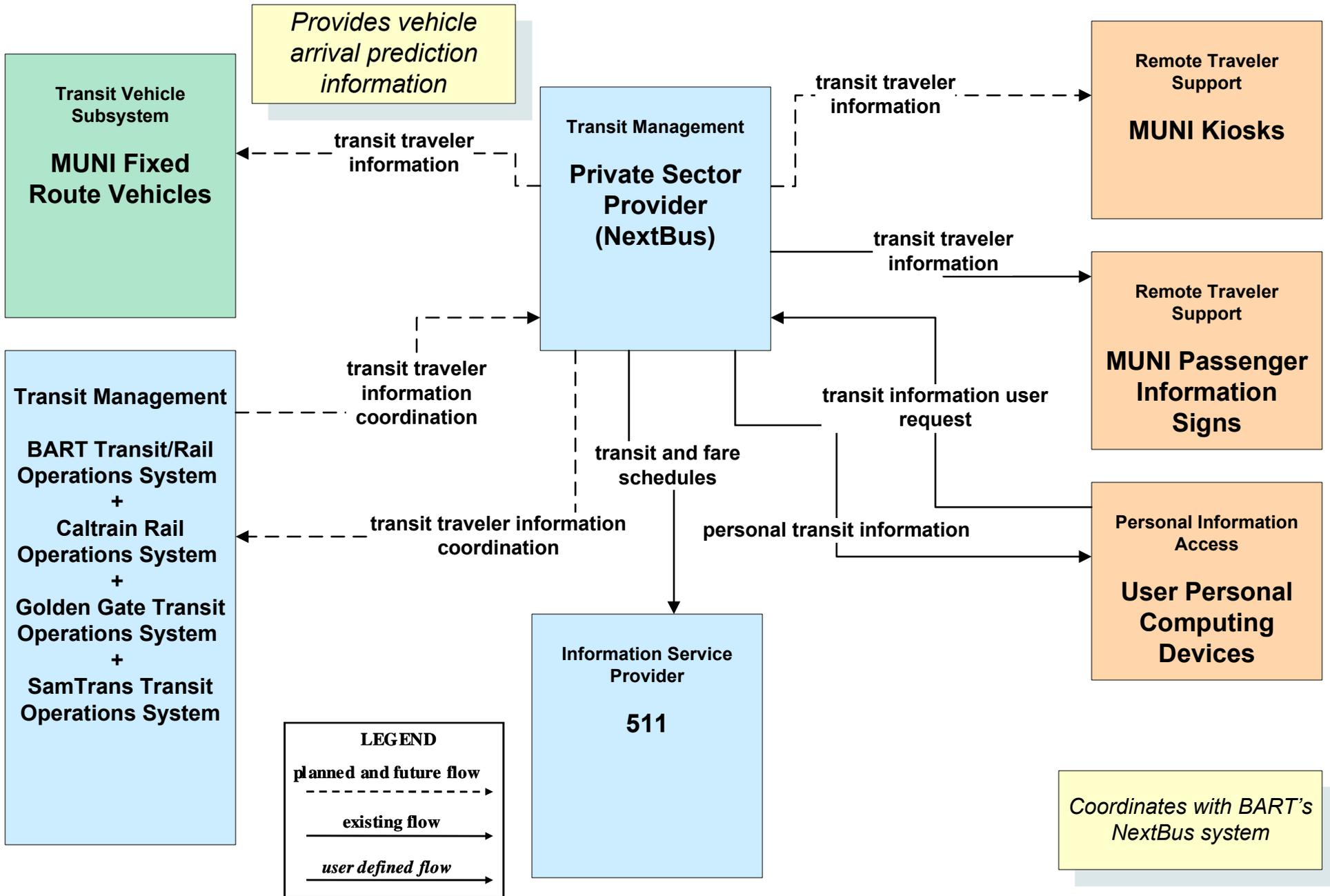
APTS08 - Transit Traveler Information Local City/County Transit Operations



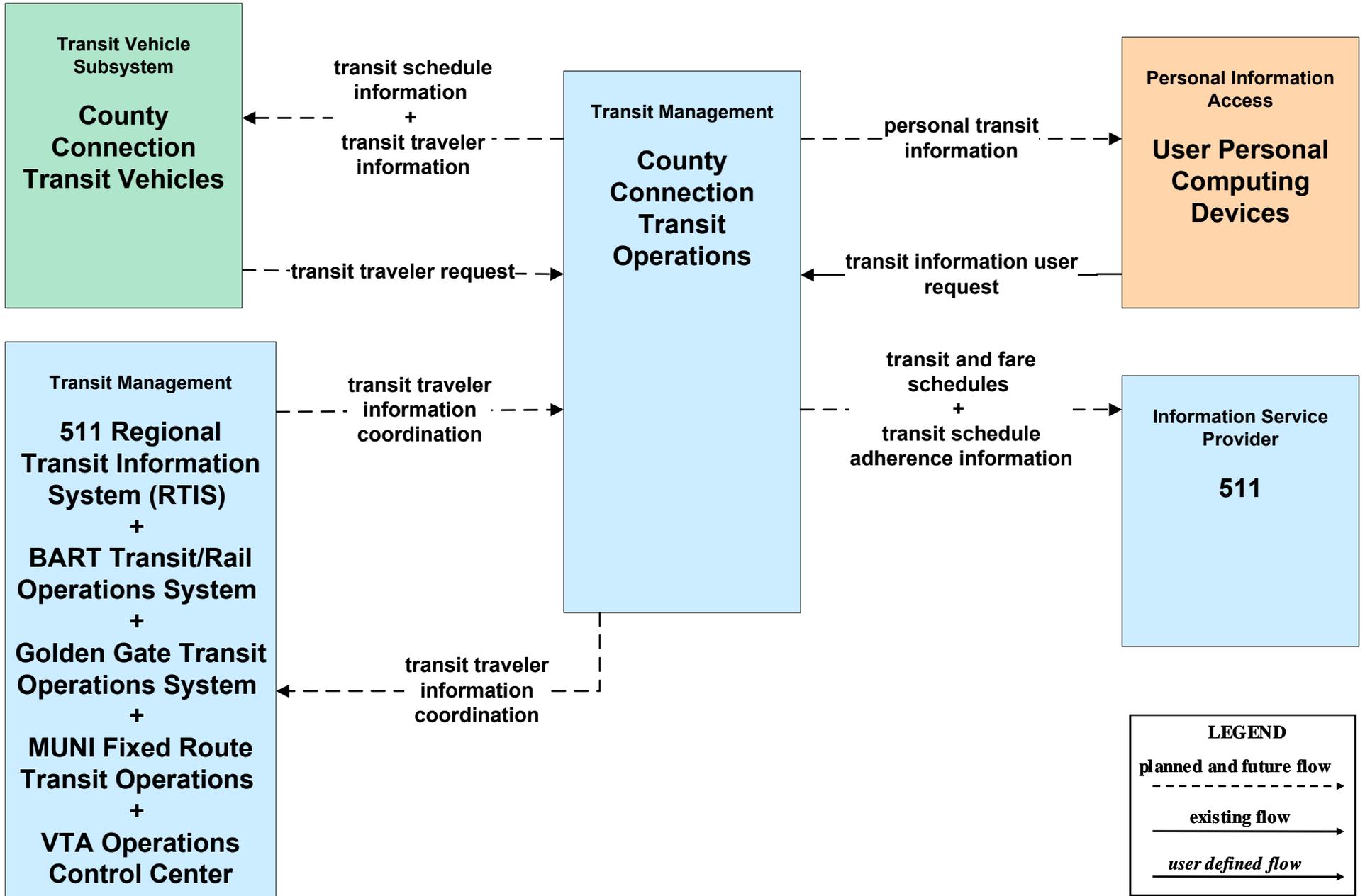
APTS08 - Transit Traveler Information 511 Real Time Transit



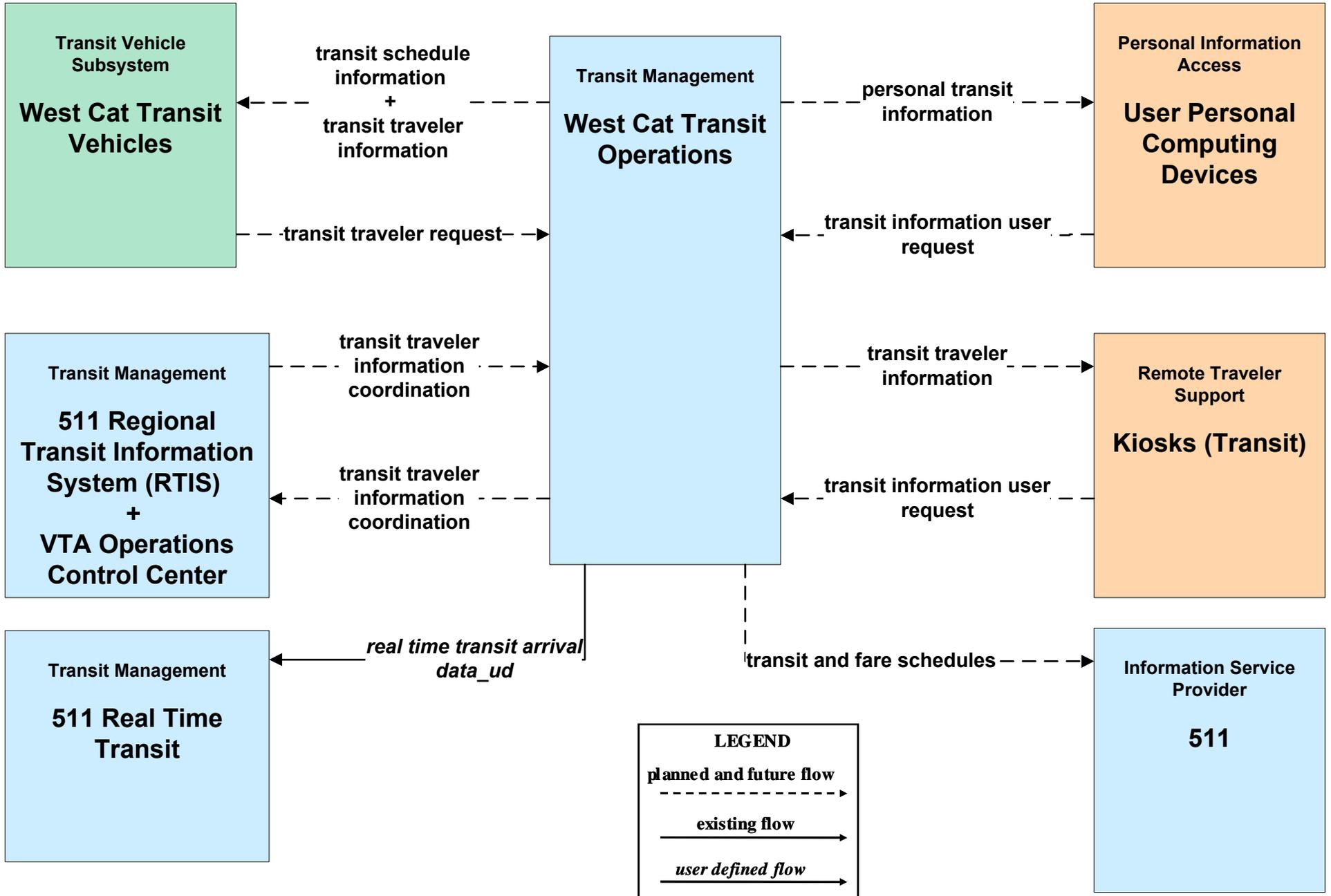
APTS08 - Transit Traveler Information MUNI Transit Operations



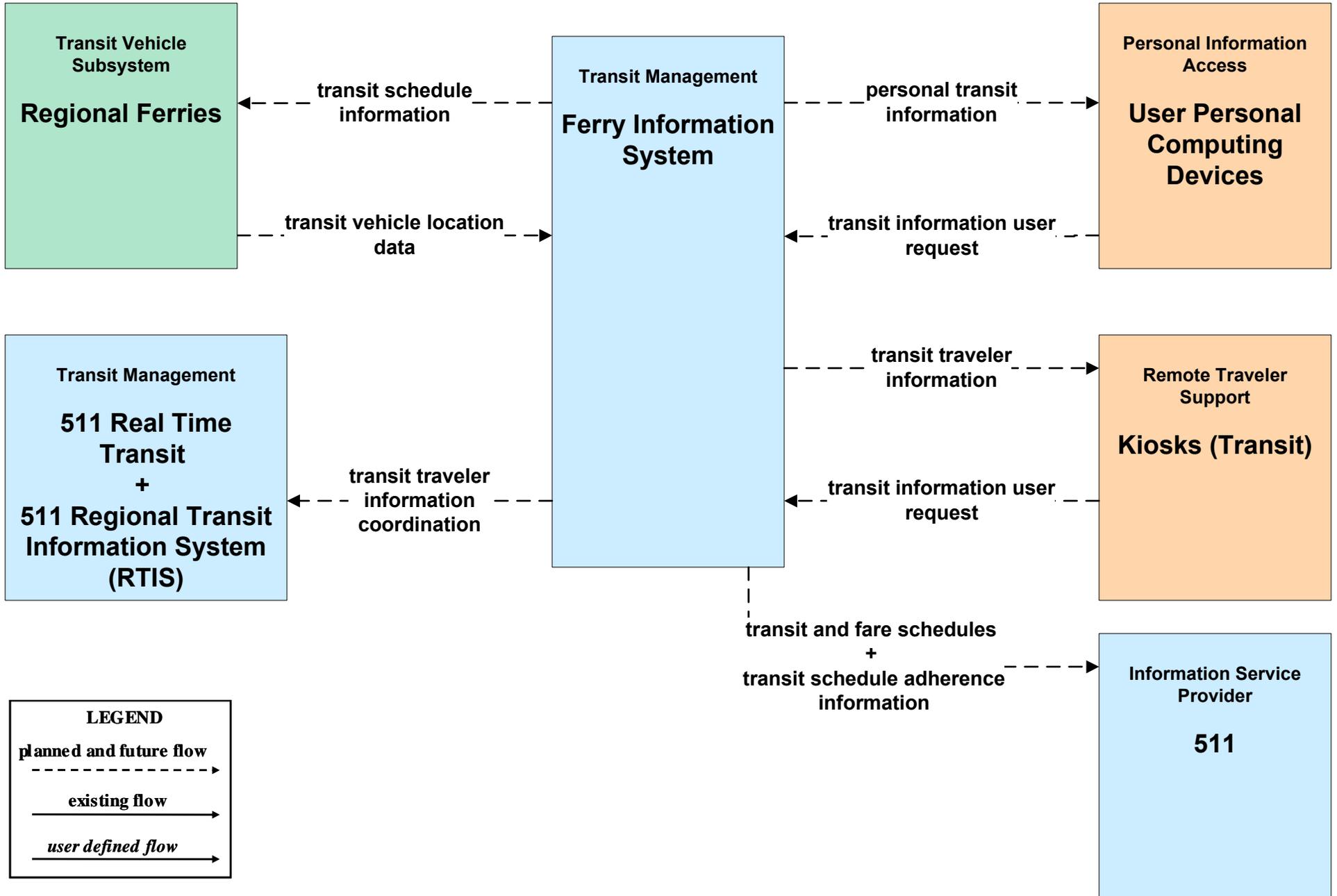
**APTS08 - Transit Traveler Information
Central Contra Costa Transit Authority-BusTime**



APTS08 - Transit Traveler Information West Cat

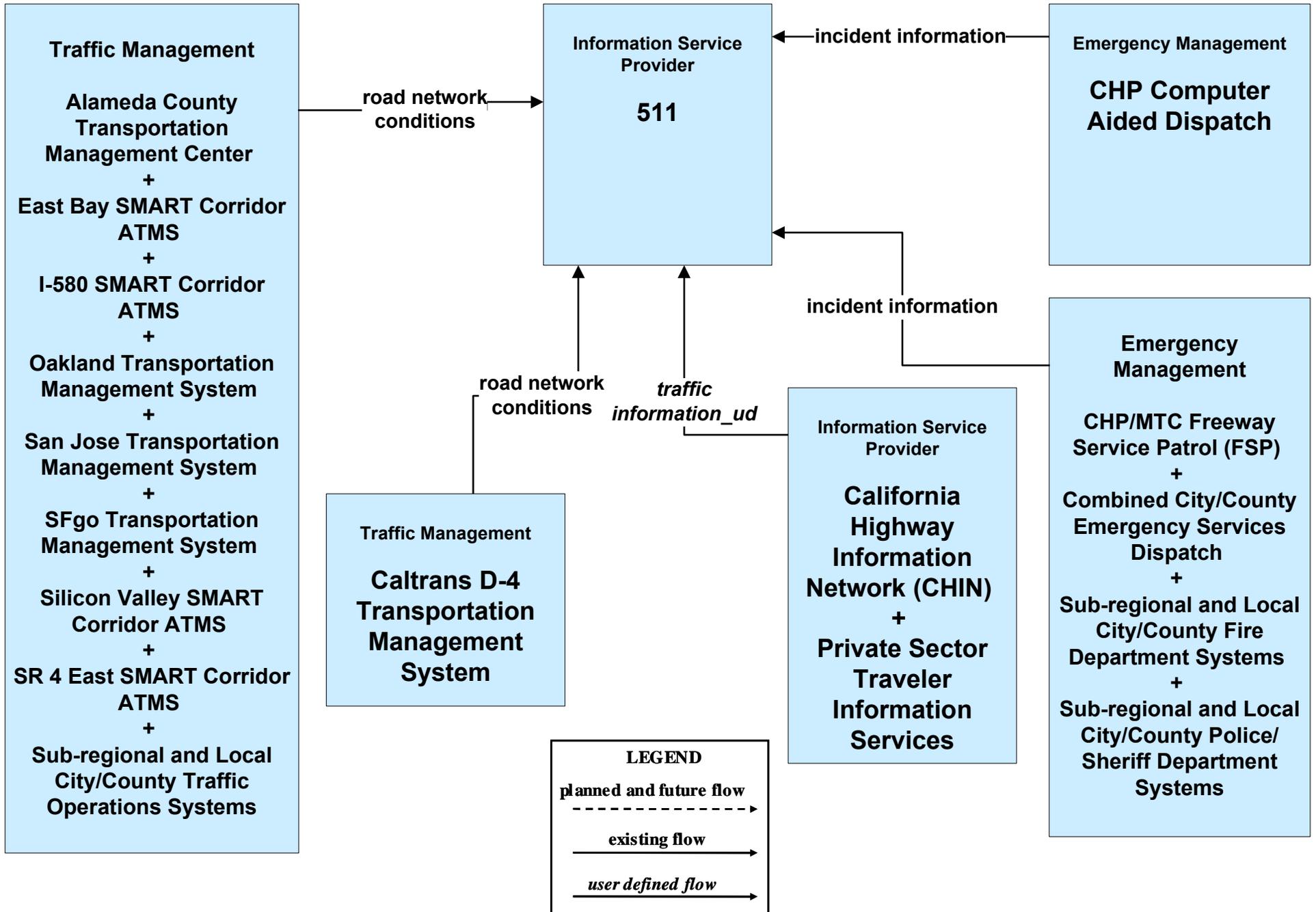


APTS08 - Transit Traveler Information WETA Ferry Information System

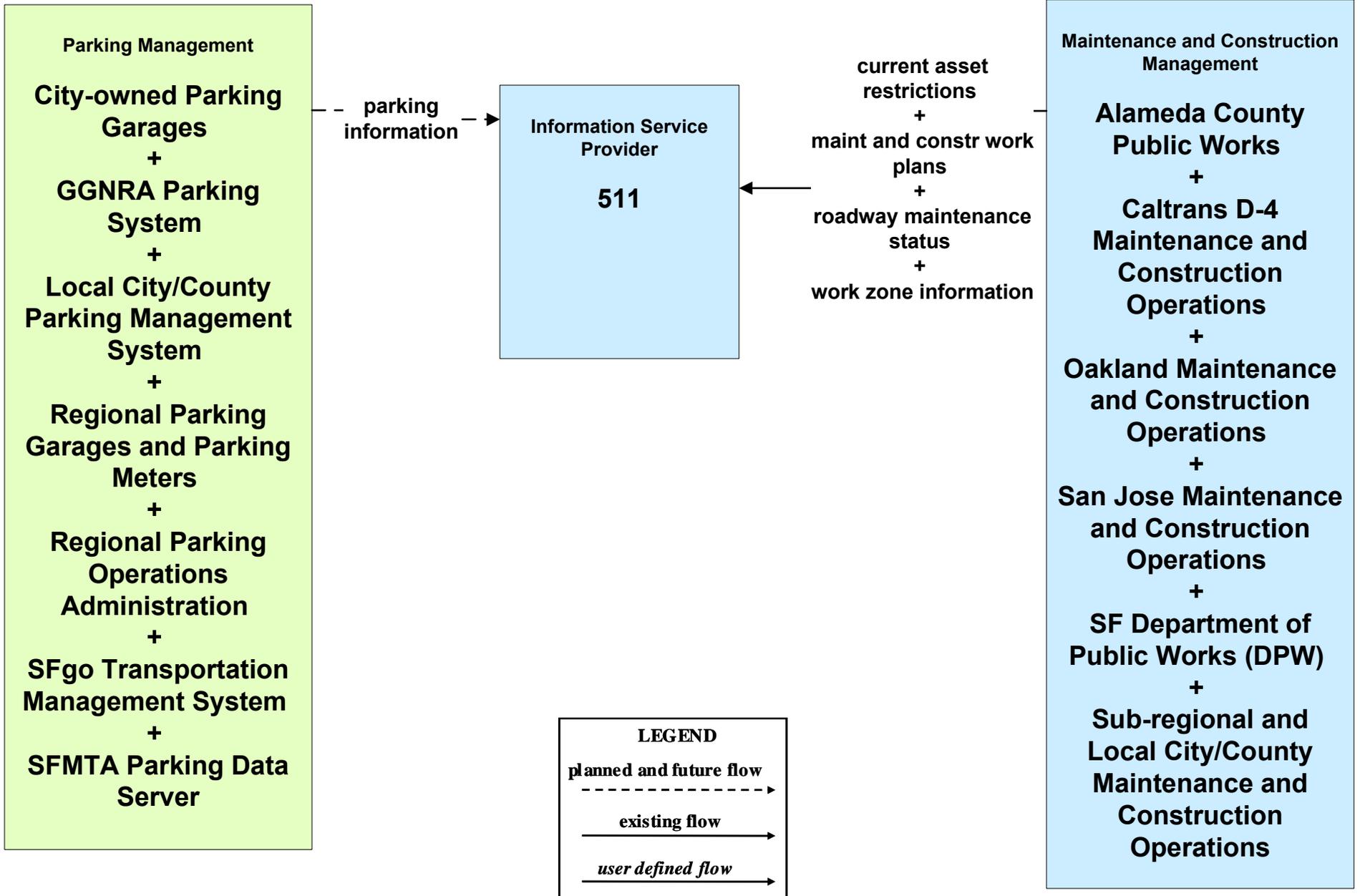


ATIS01 - Broadcast Traveler Information

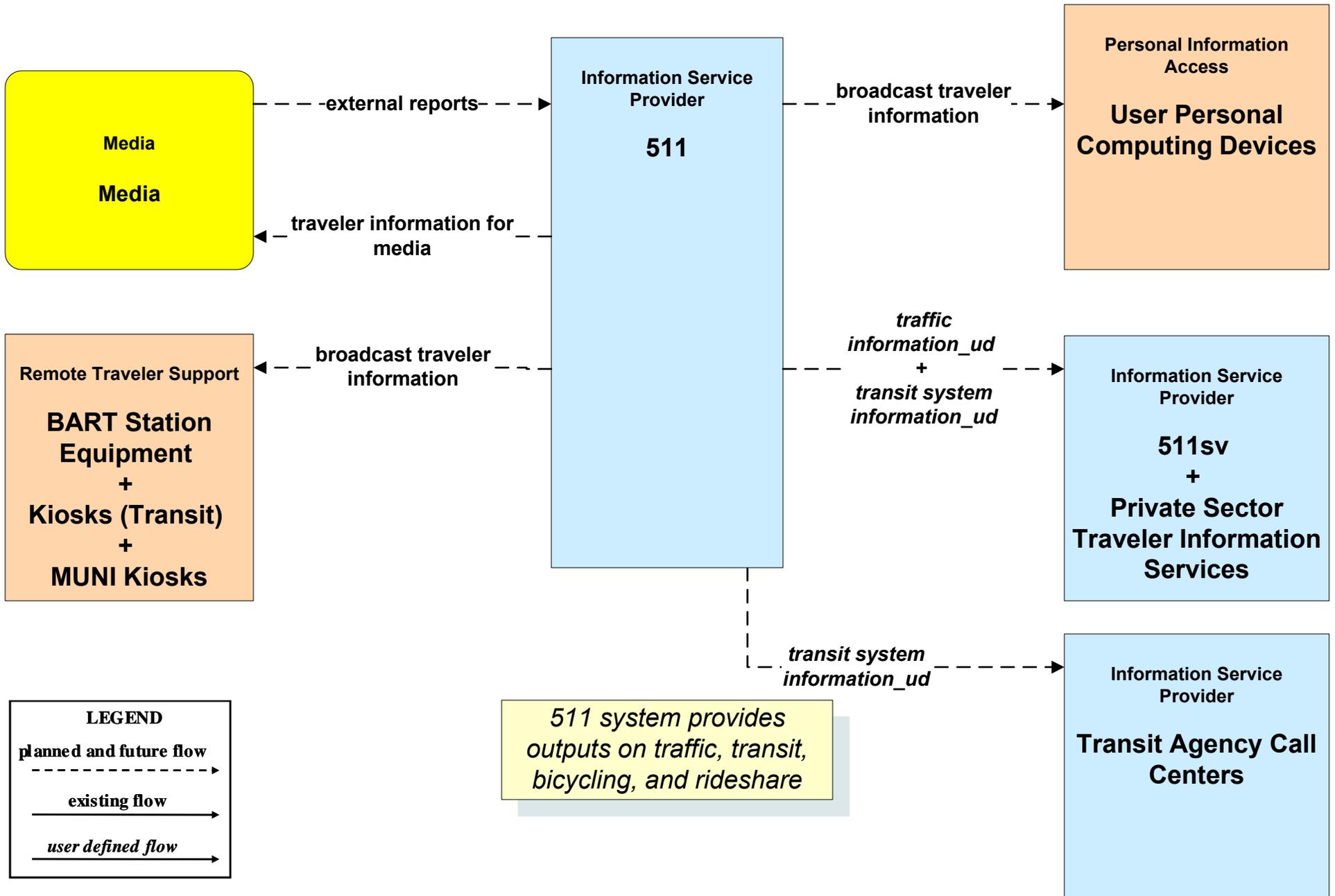
511 (Inputs) (1 of 2)



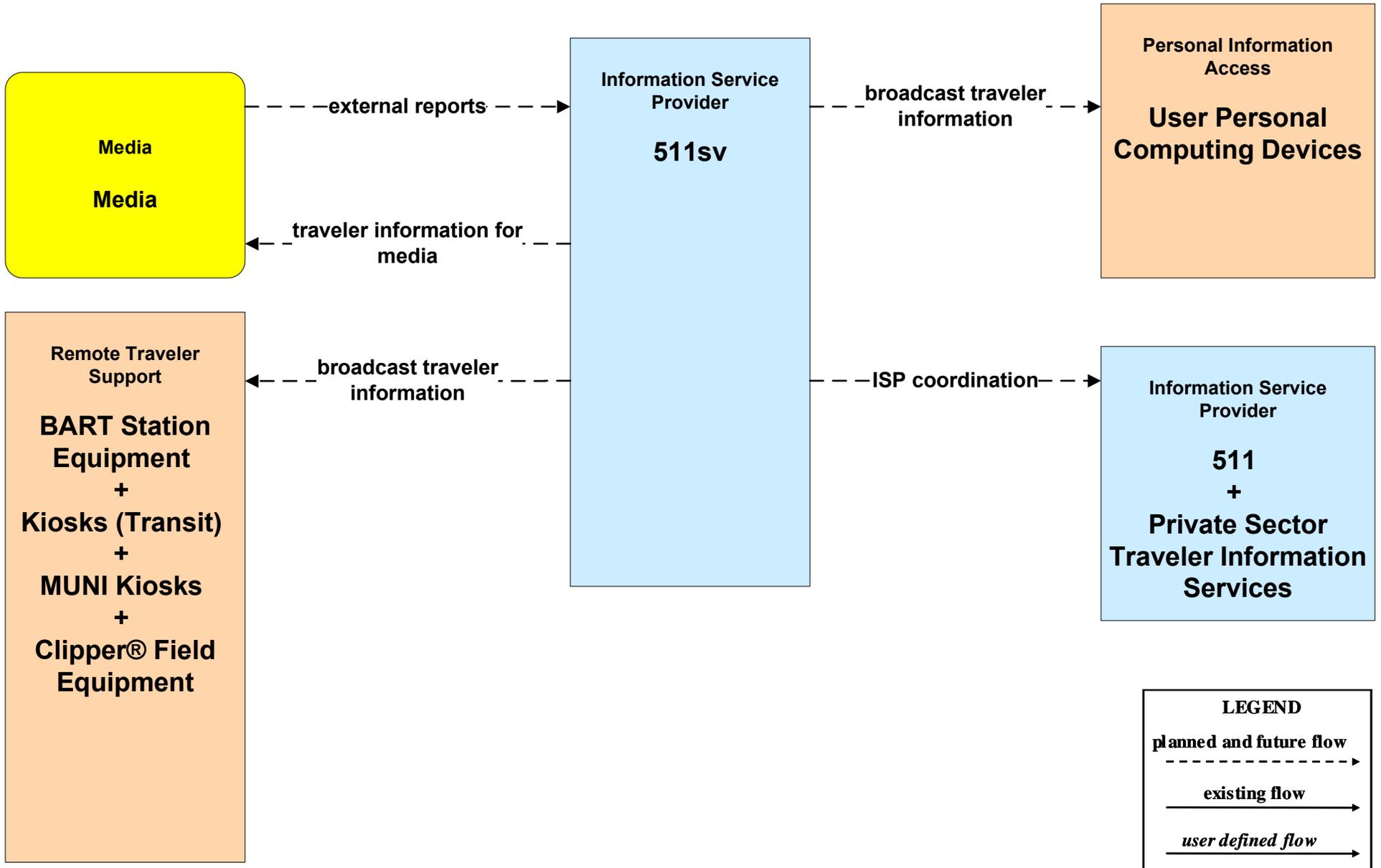
**ATIS01 - Broadcast Traveler Information
511 (Inputs) (2 of 2)**



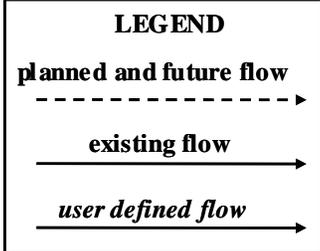
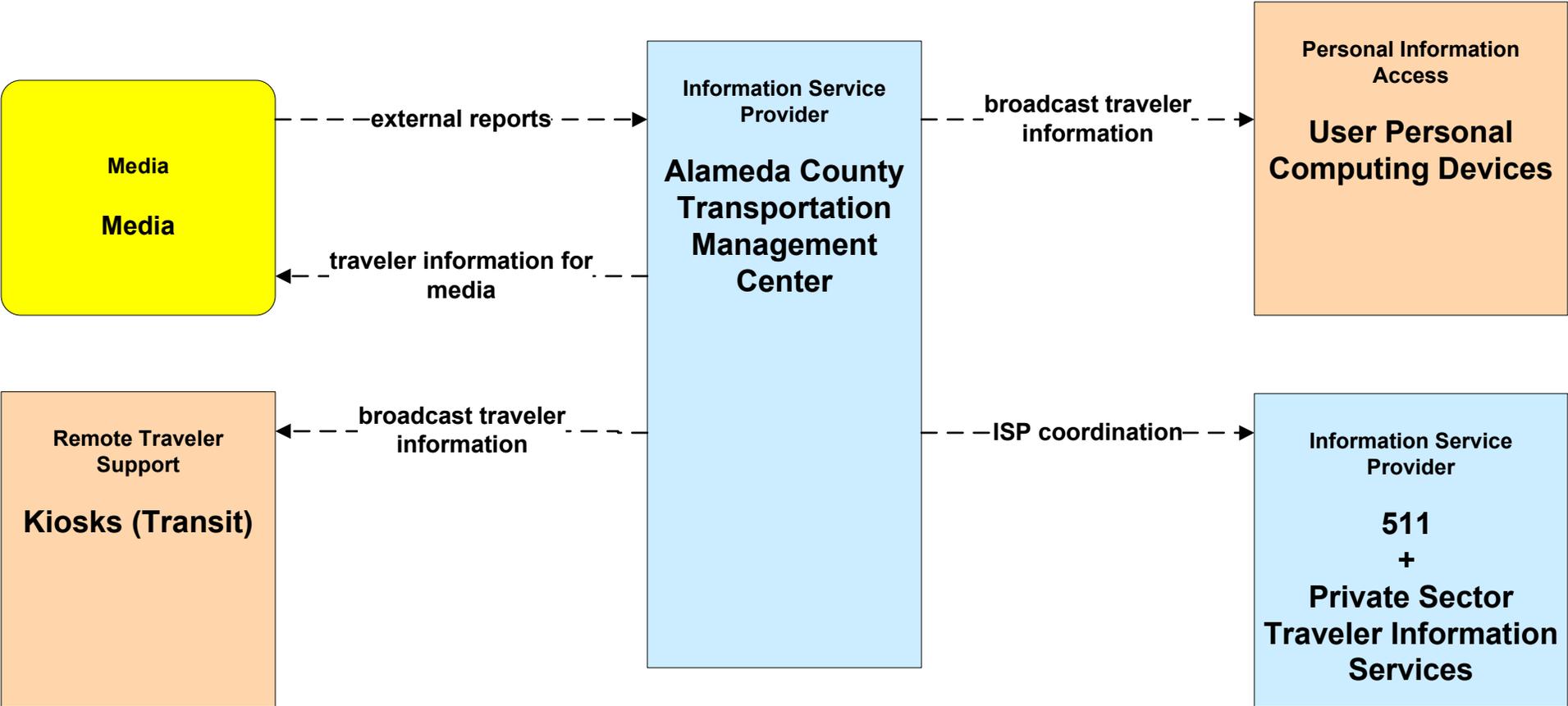
ATIS01 - Broadcast Traveler Information 511 (Outputs)



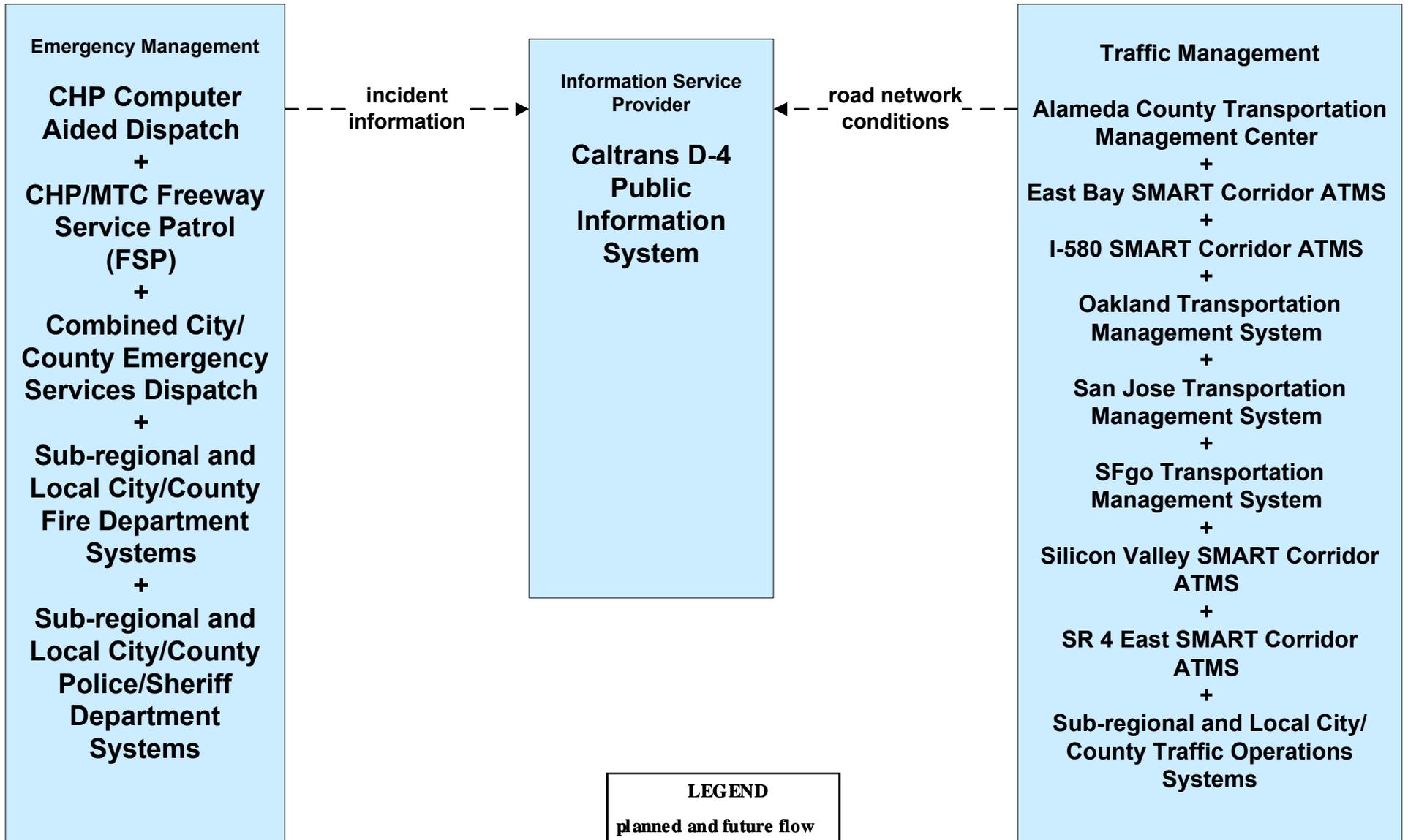
**ATIS01 - Broadcast Traveler Information
511sv.org (Outputs)**



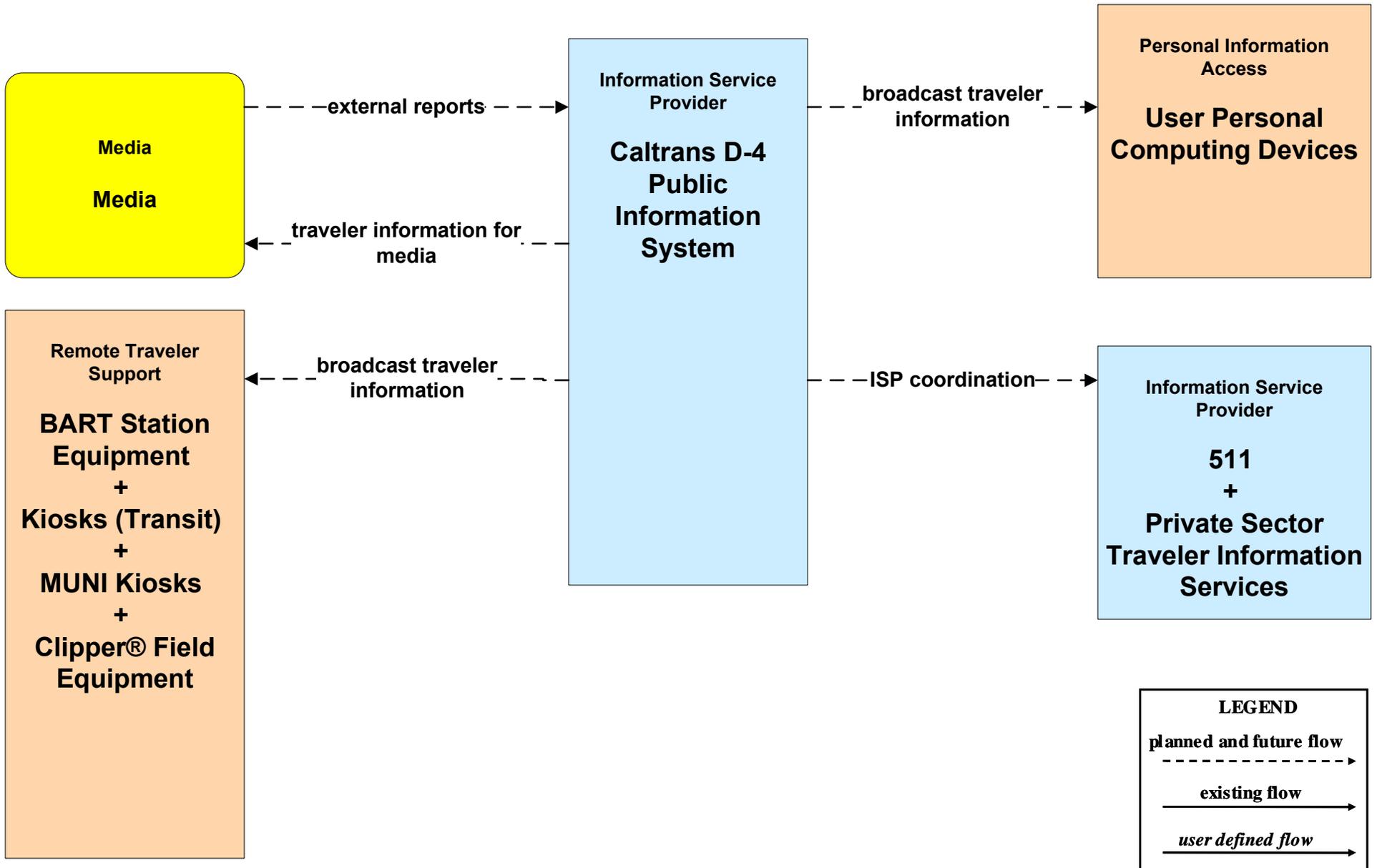
**ATIS01 - Broadcast Traveler Information
Alameda County Public Information System (Outputs)**



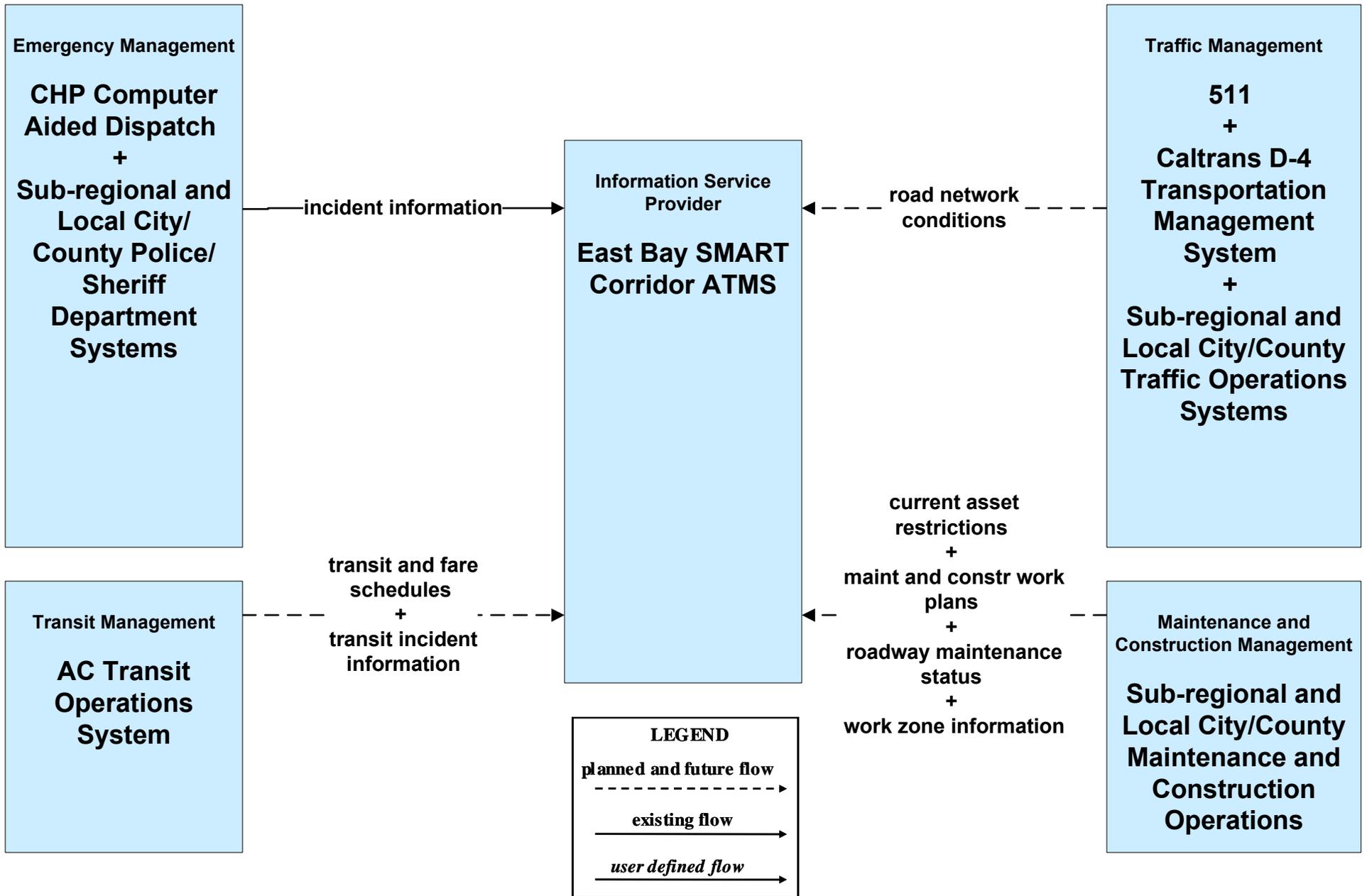
**ATIS01 - Broadcast Traveler Information
Caltrans D-4 Public Information System (Inputs) (1 of 2)**



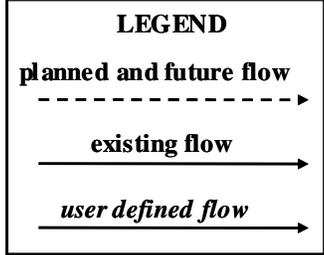
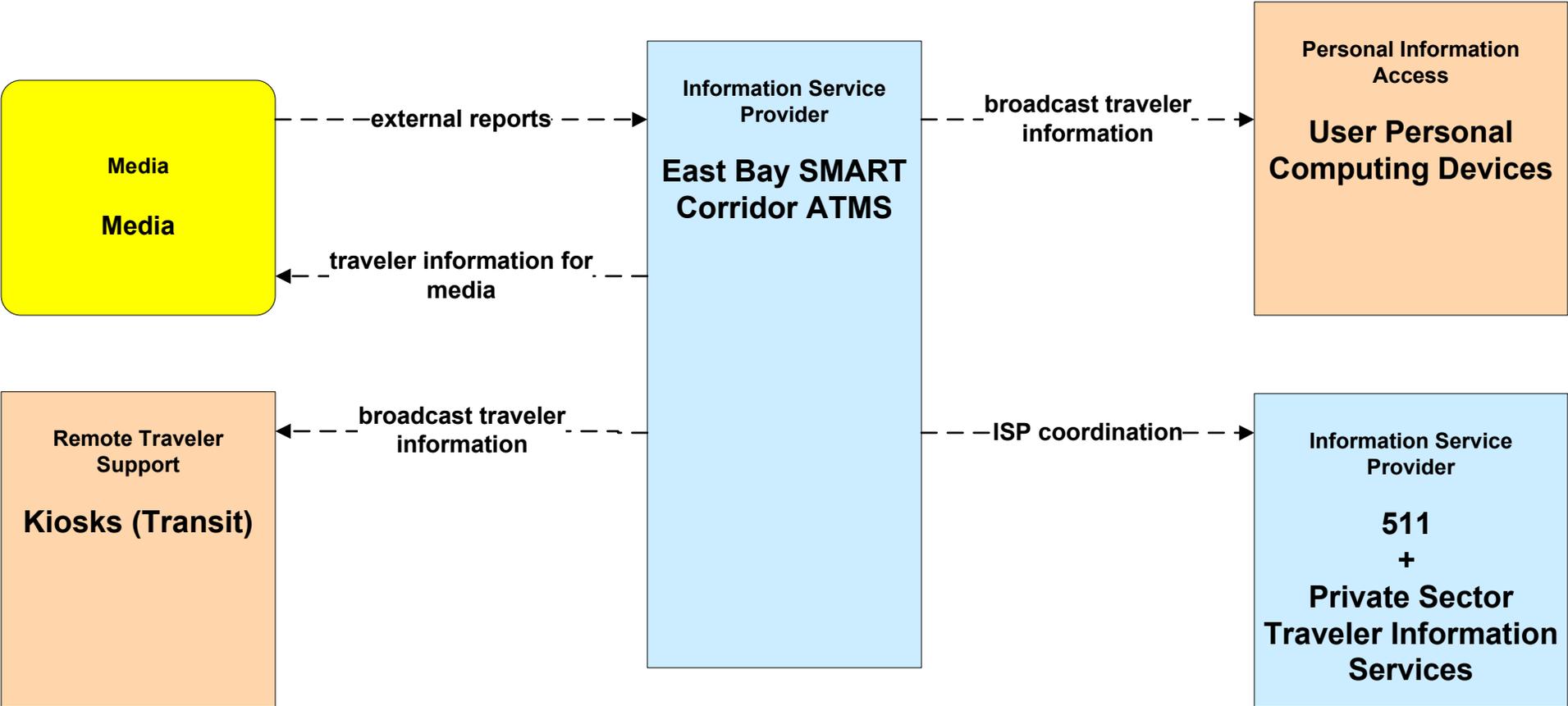
**ATIS01 - Broadcast Traveler Information
Caltrans D-4 Public Information System (Outputs)**



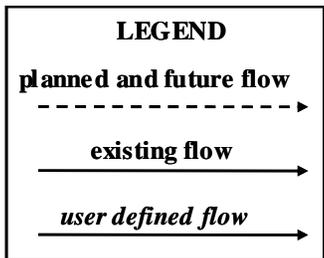
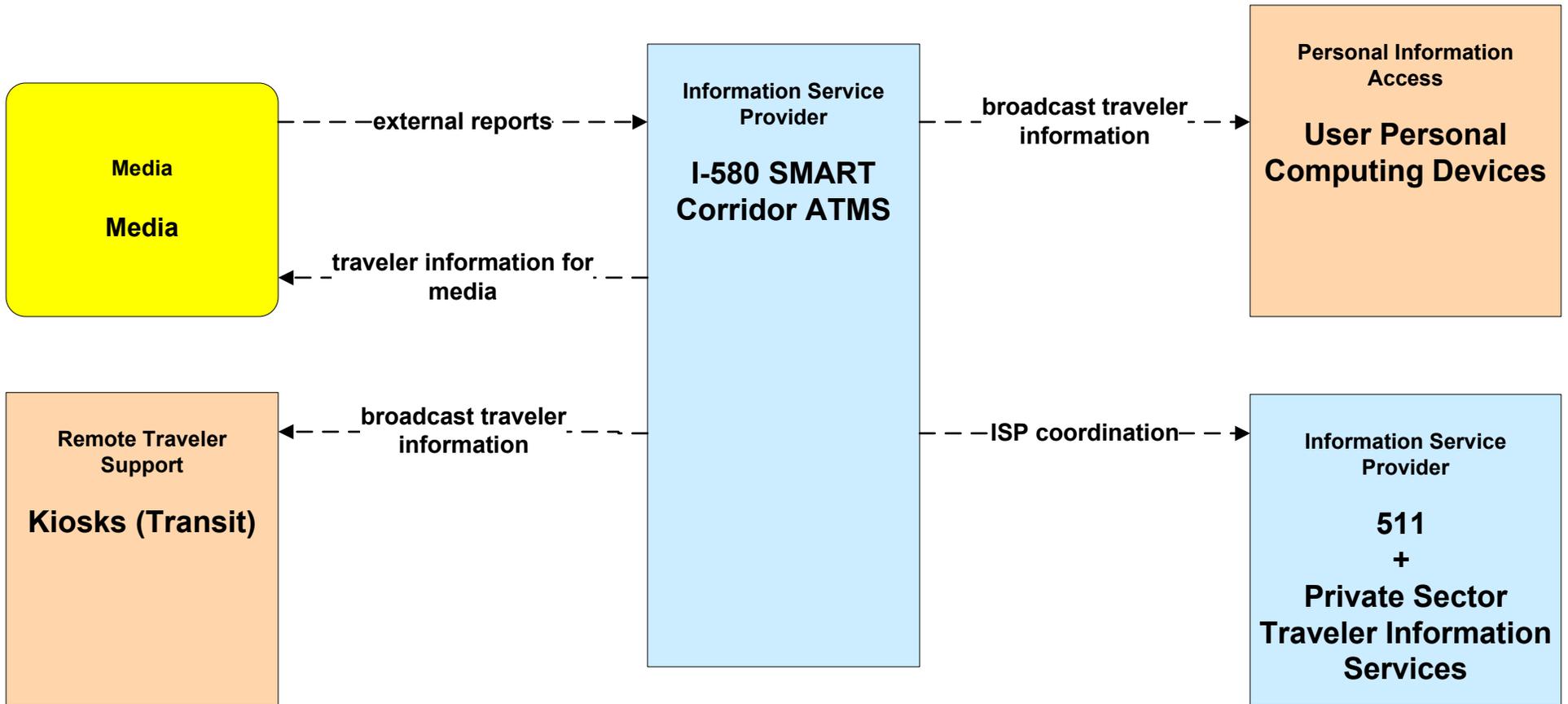
**ATIS01 - Broadcast Traveler Information
East Bay SMART Corridor Public Information System (Inputs)**



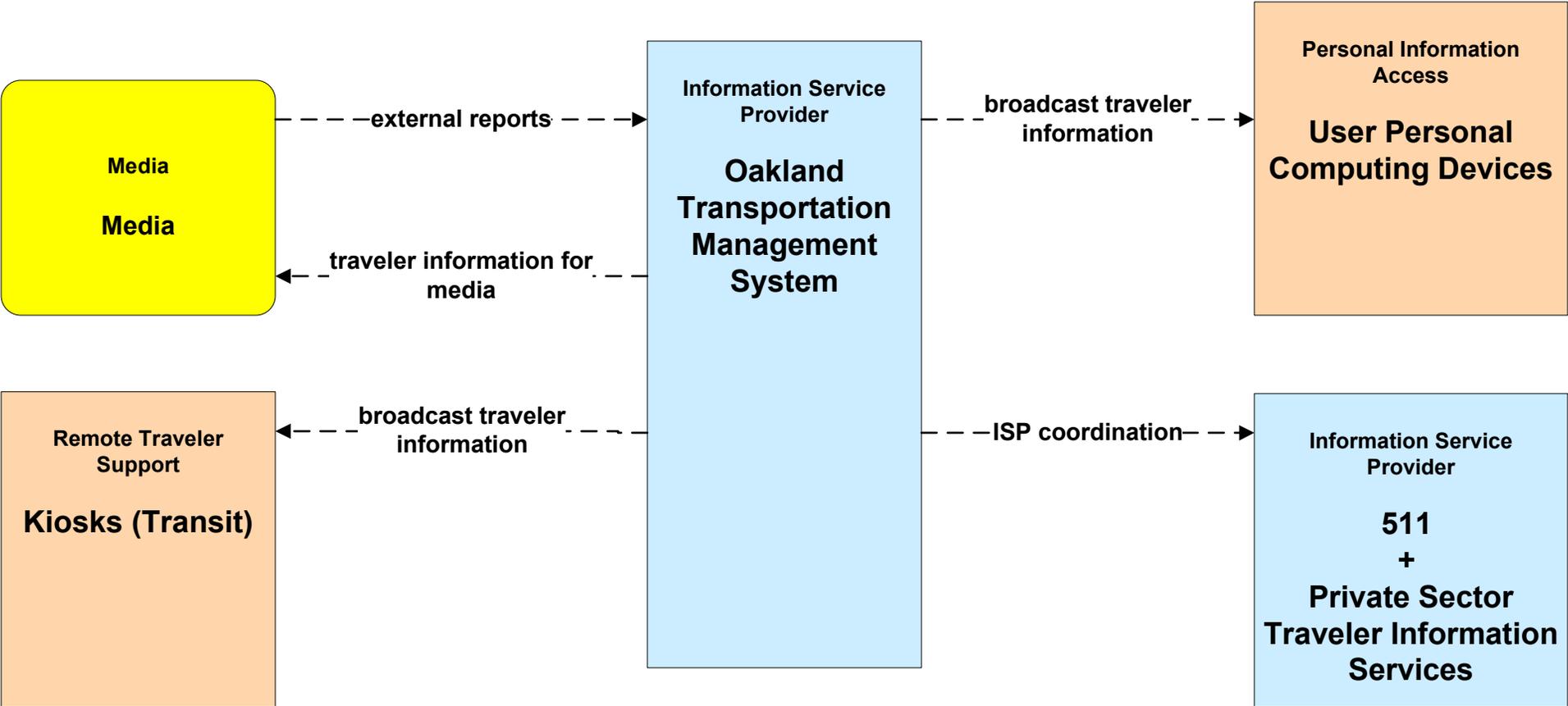
**ATIS01 - Broadcast Traveler Information
East Bay SMART Corridor Public Information System (Outputs)**



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



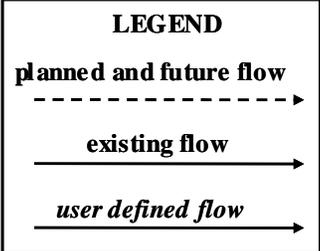
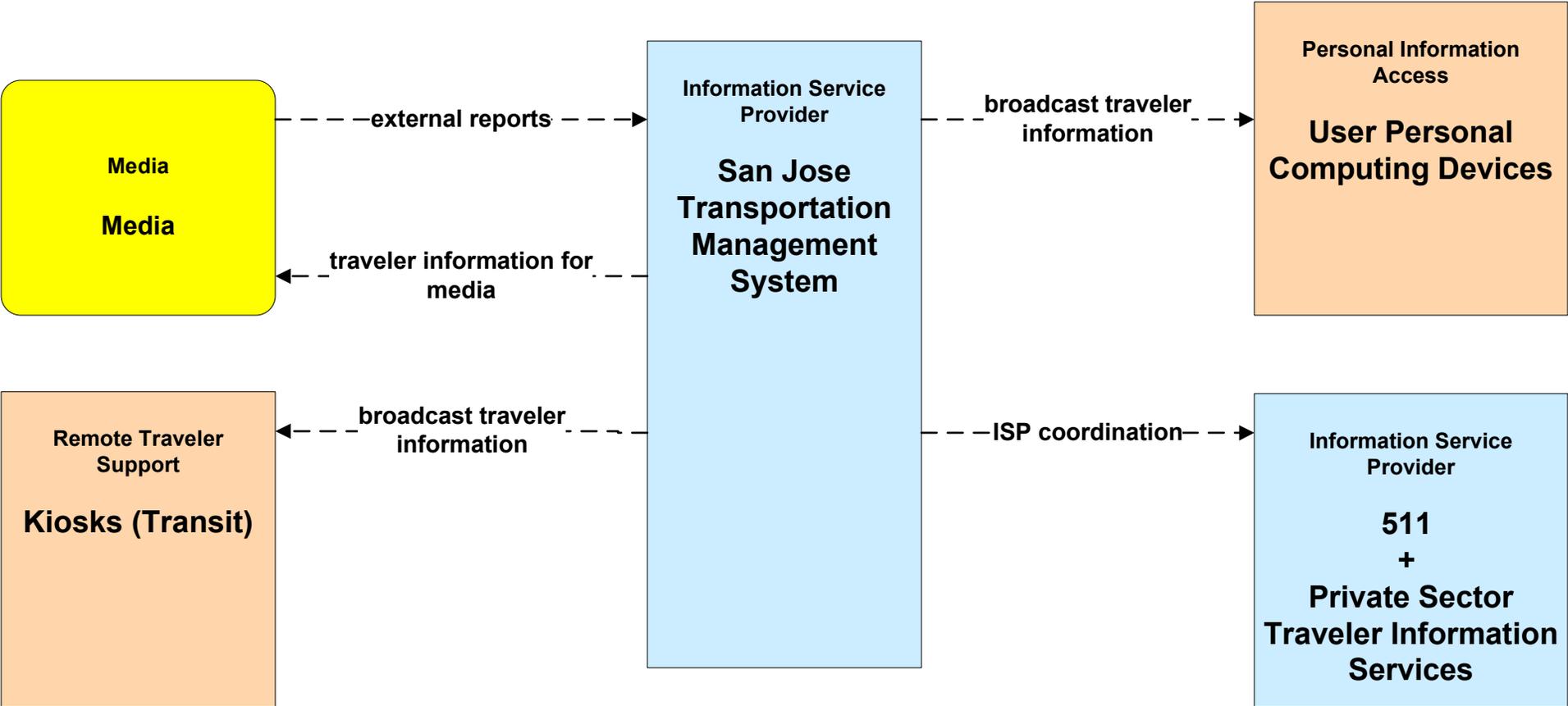
**ATIS01 - Broadcast Traveler Information
Oakland Public Information System (Outputs)**



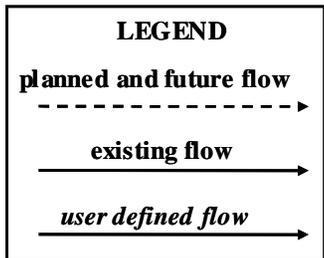
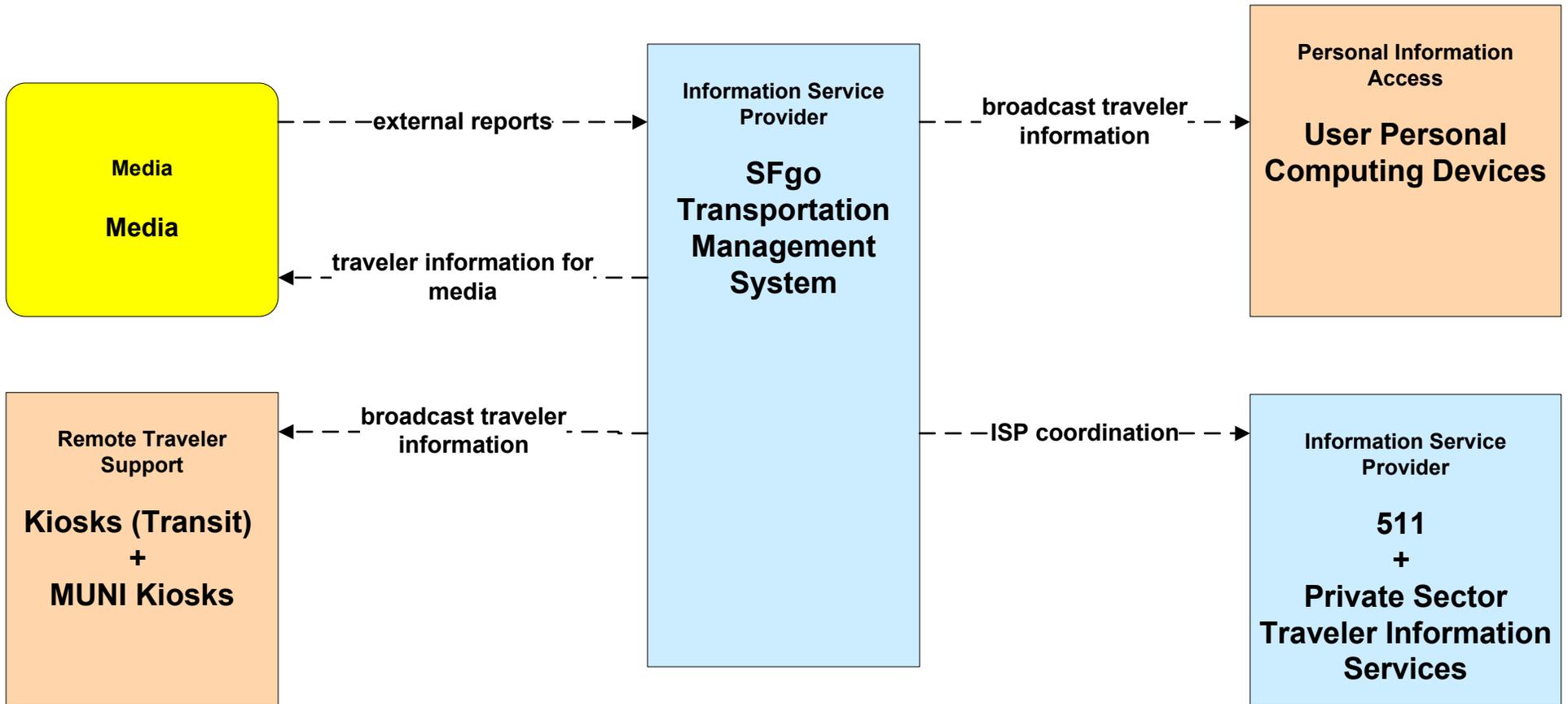
LEGEND

- planned and future flow**
- - - - ->
- existing flow**
—————>
- user defined flow**
—————>

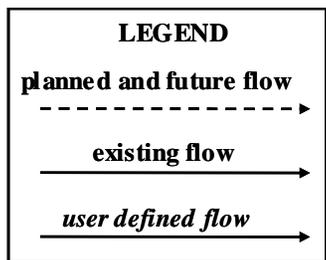
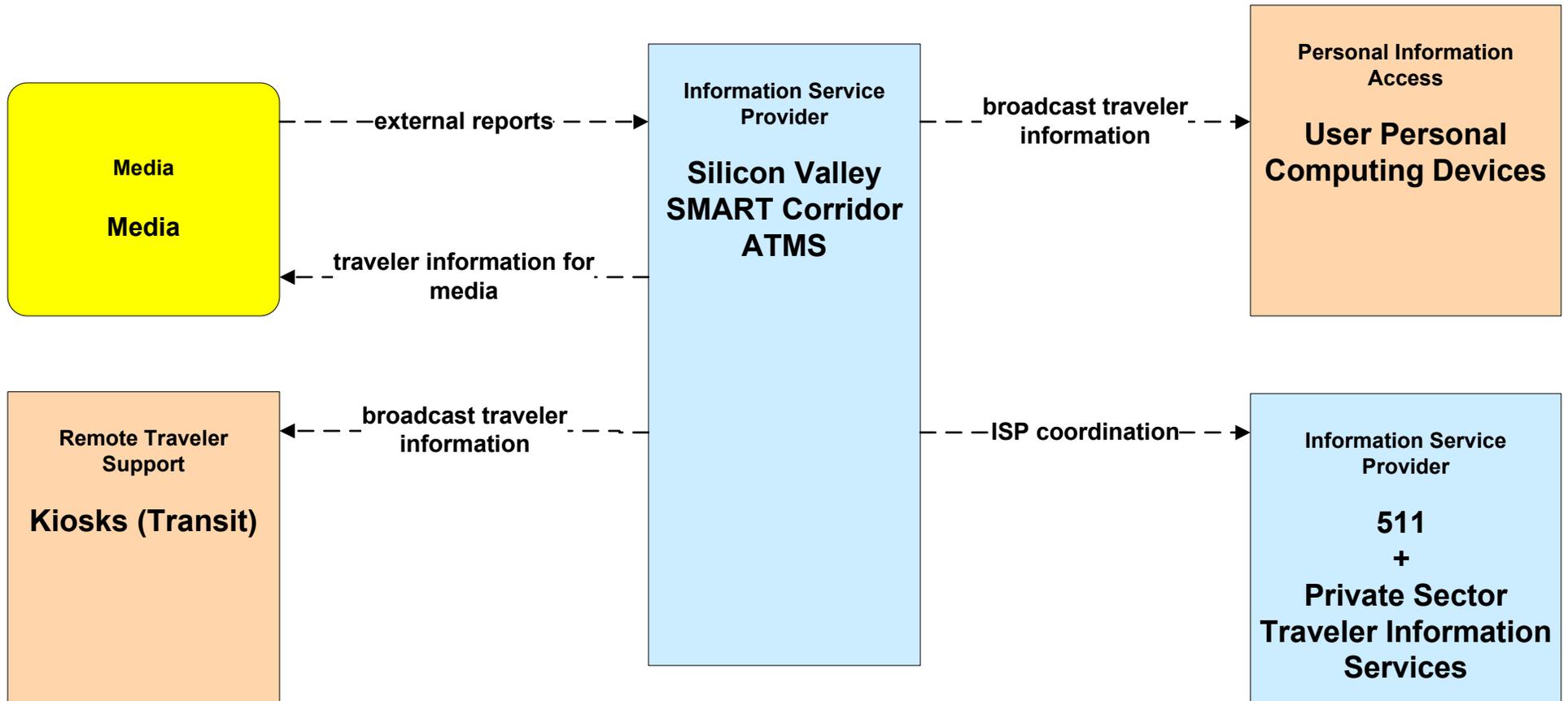
**ATIS01 - Broadcast Traveler Information
San Jose Public Information System (Outputs)**



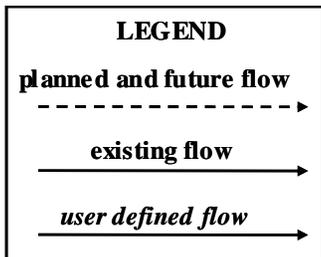
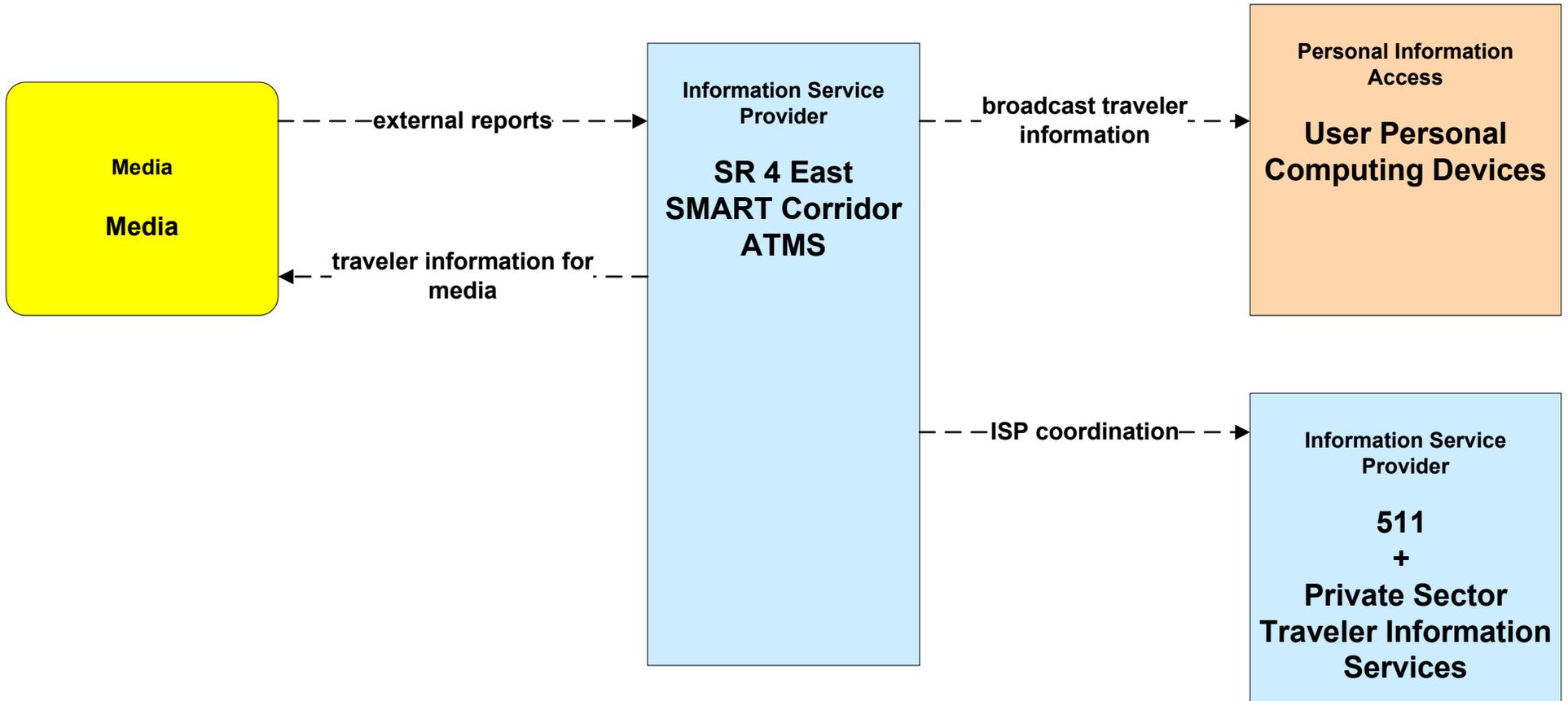
**ATIS01 - Broadcast Traveler Information
City of San Francisco Public Information System (Outputs)**



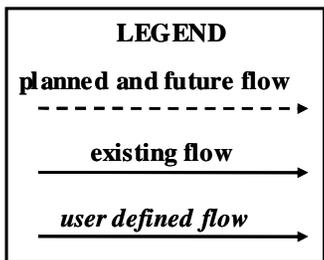
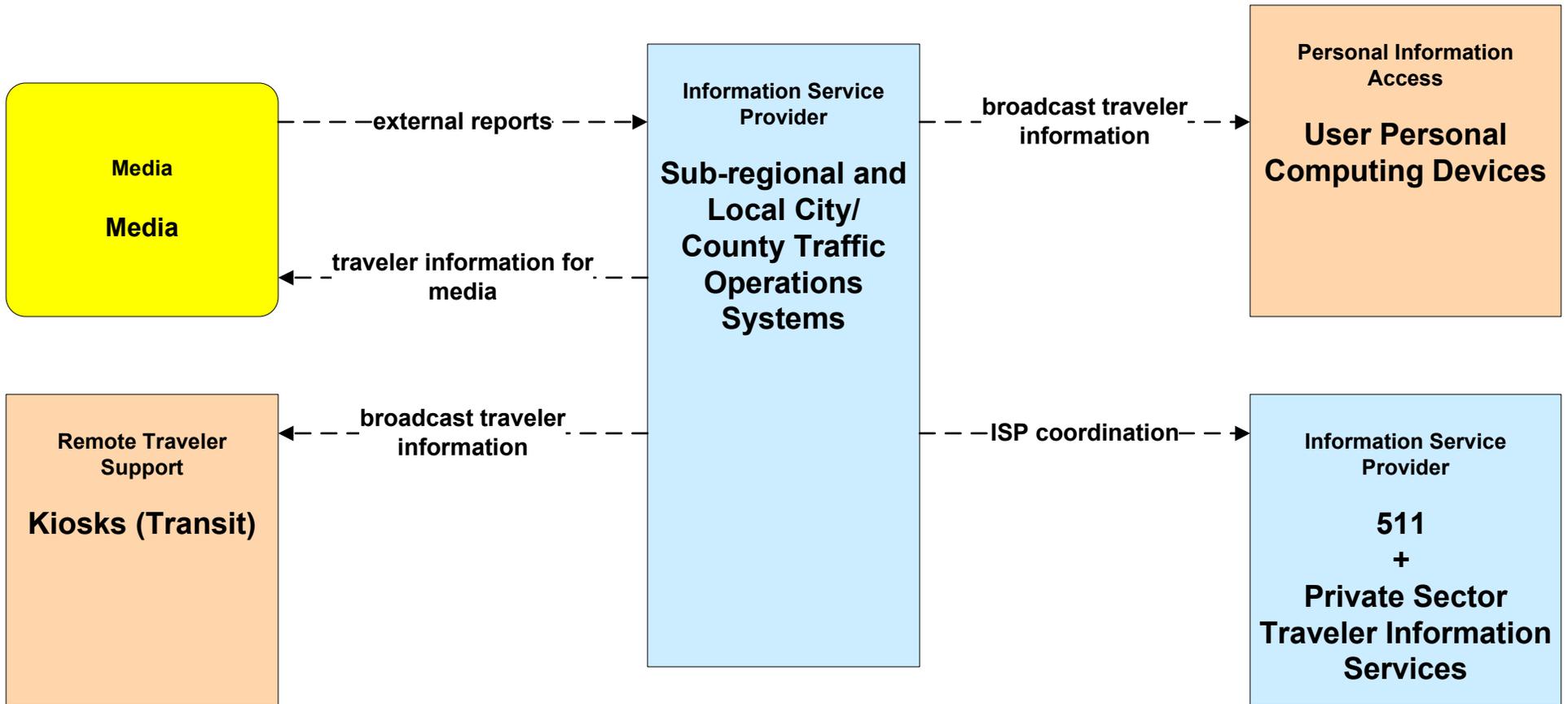
**ATIS01 - Broadcast Traveler Information
Silicon Valley Public Information System (Outputs)**



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

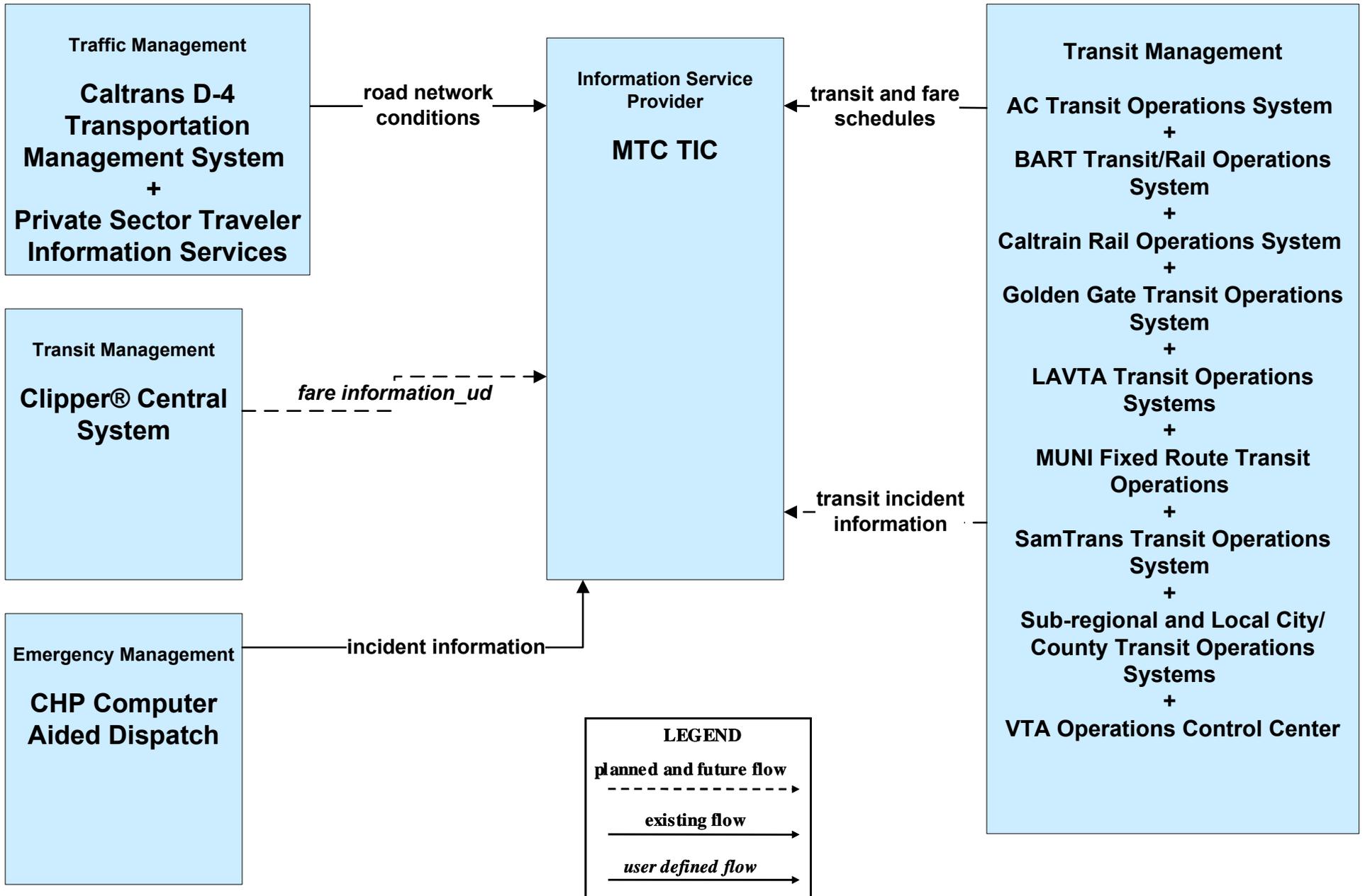


**ATIS01 - Broadcast Traveler Information
Local City/County Public Information System (Outputs)**

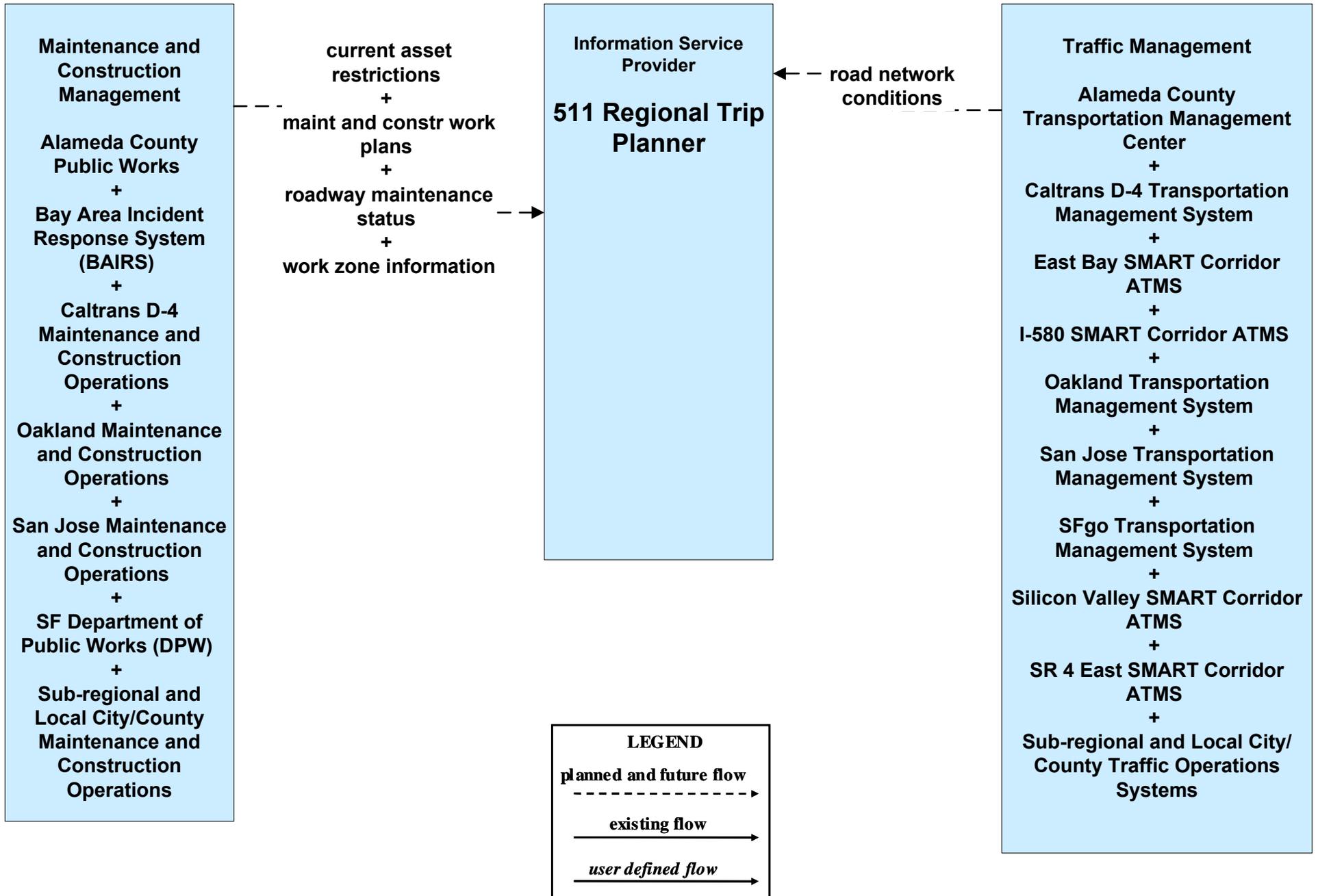


NOTE: This includes the Fairfield Advanced Traveler Information System

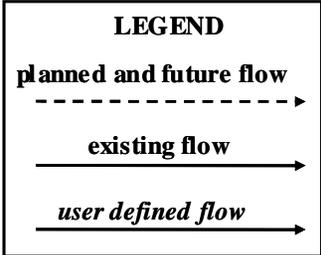
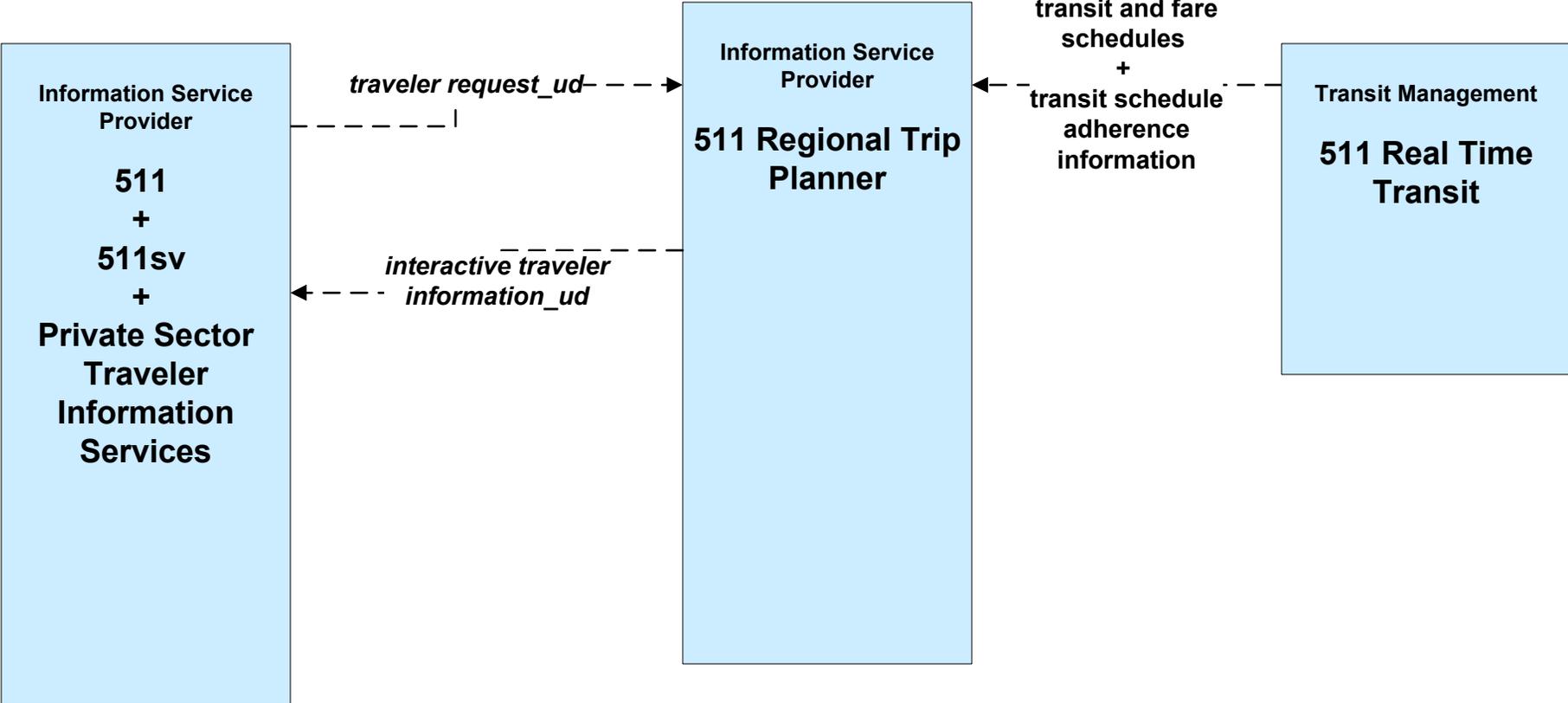
ATIS1 - Broadcast Traveler Information MTC TIC (Inputs)



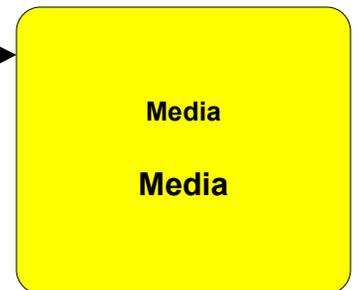
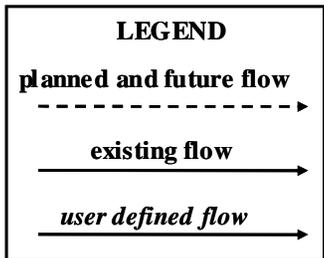
ATIS02 - Interactive Traveler Information 511 Regional Trip Planner (Inputs) (1 of 3)



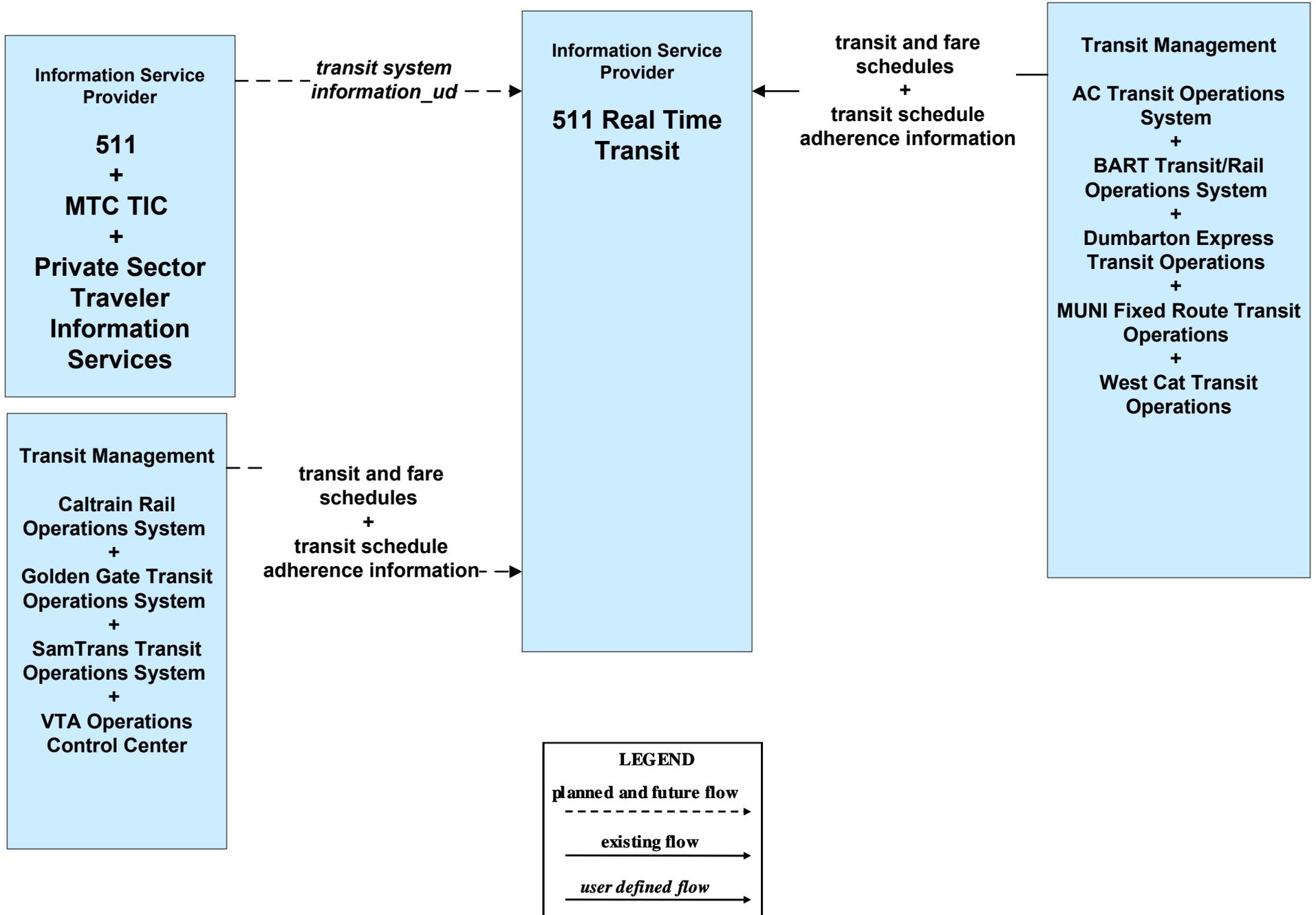
**ATIS02 - Interactive Traveler Information
511 Regional Trip Planner (Inputs) (2 of 3)**



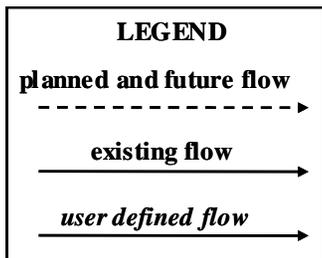
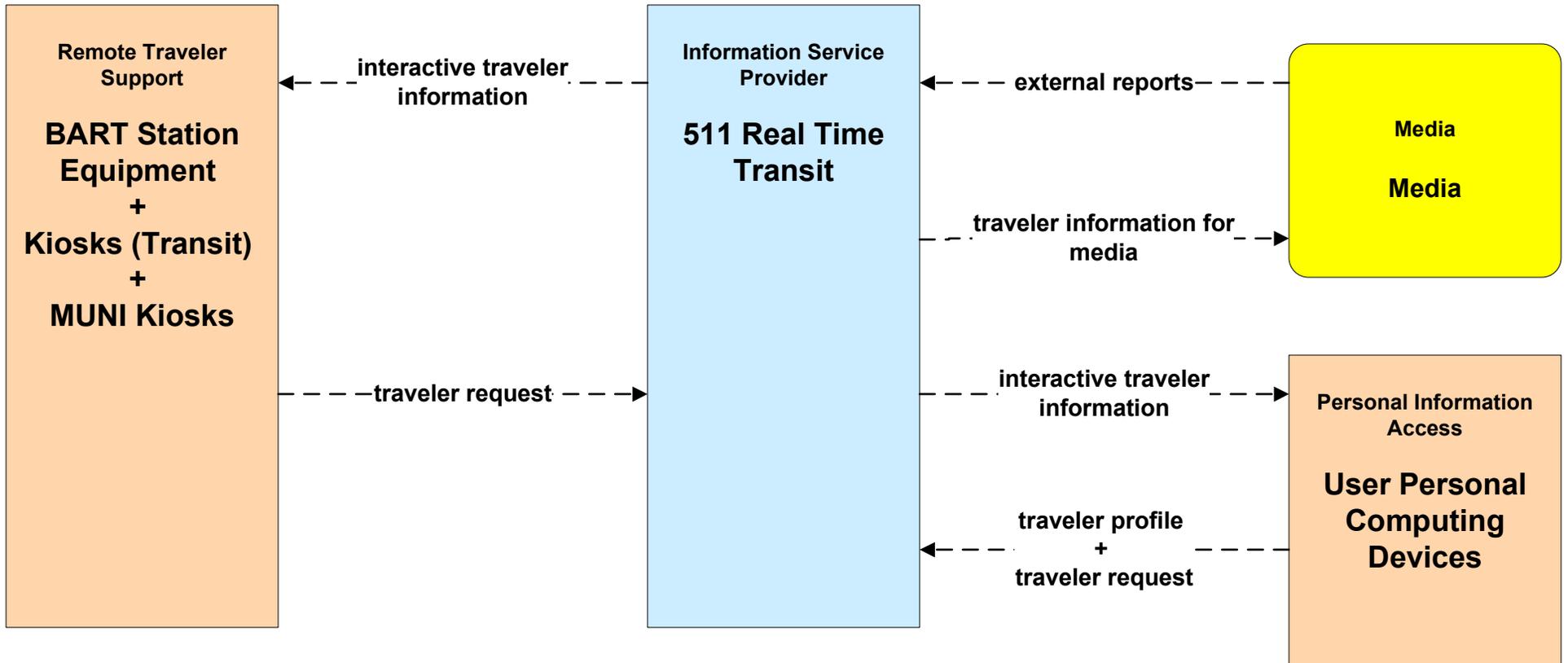
**ATIS02 - Interactive Traveler Information
511 Regional Trip Planner (Outputs) (3 of 3)**



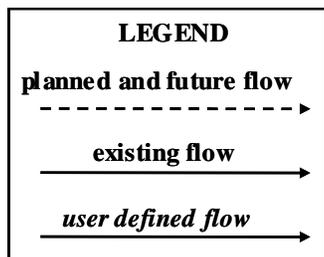
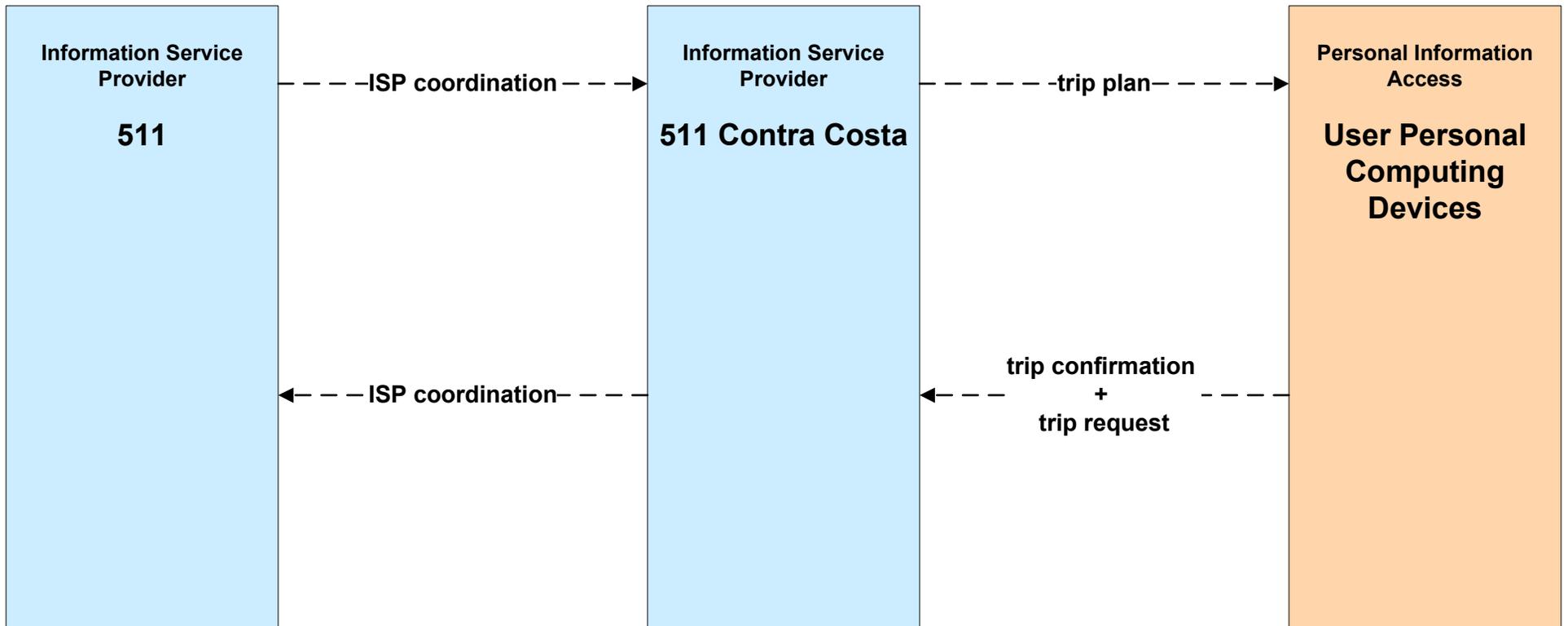
ATIS02 - Interactive Traveler Information RTIS (1 of 2)



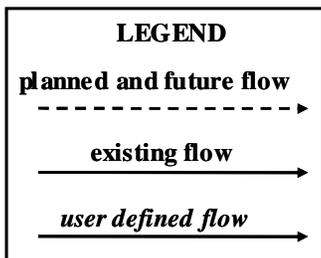
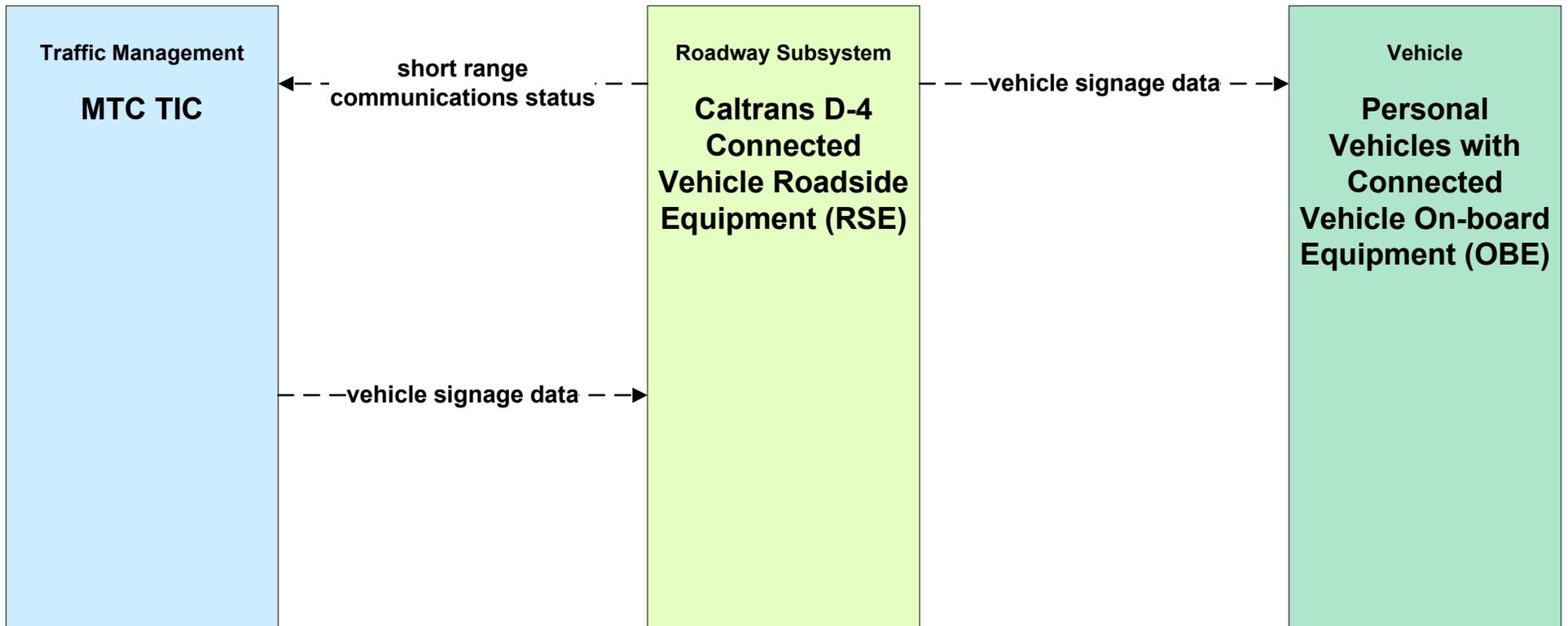
**ATIS02 - Interactive Traveler Information
RTIS (2 of 2)**



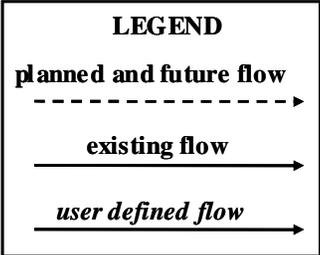
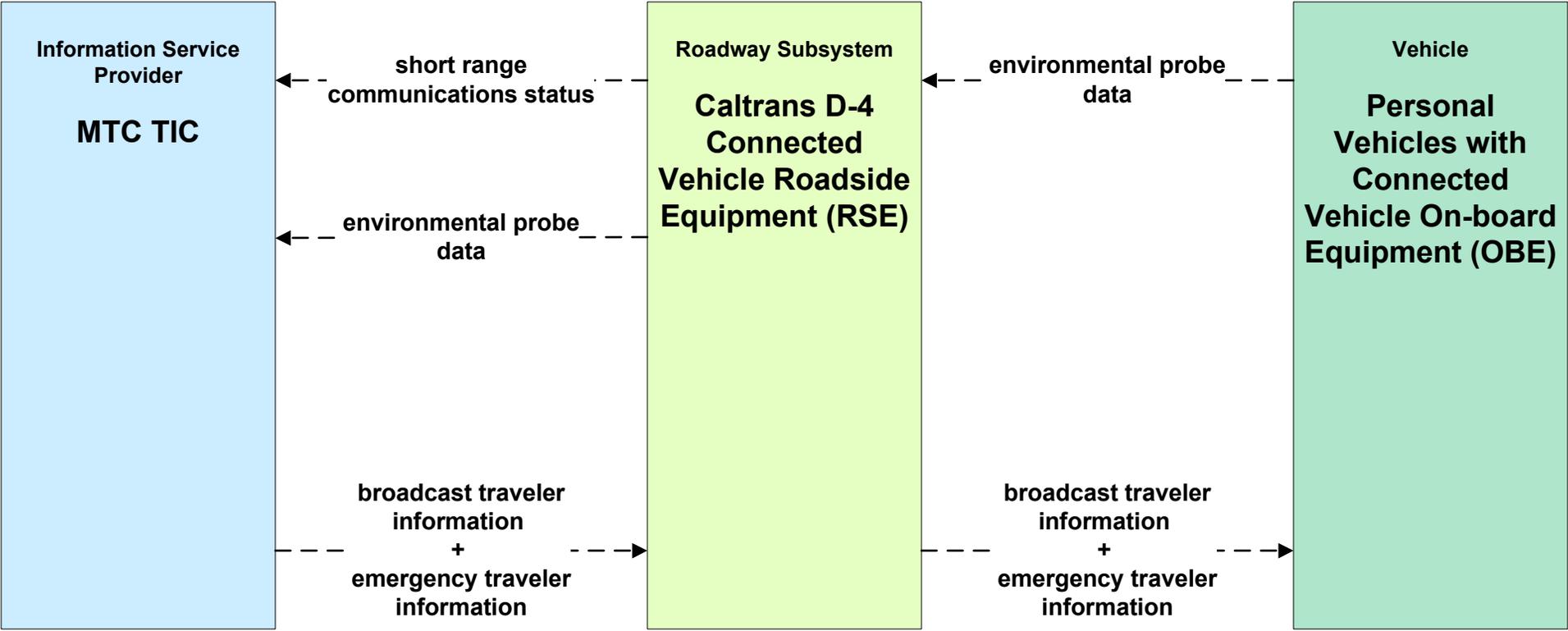
ATIS08 - Dynamic Ridematching 511 Contra Costa



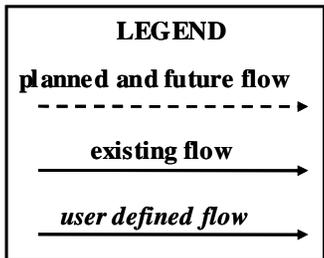
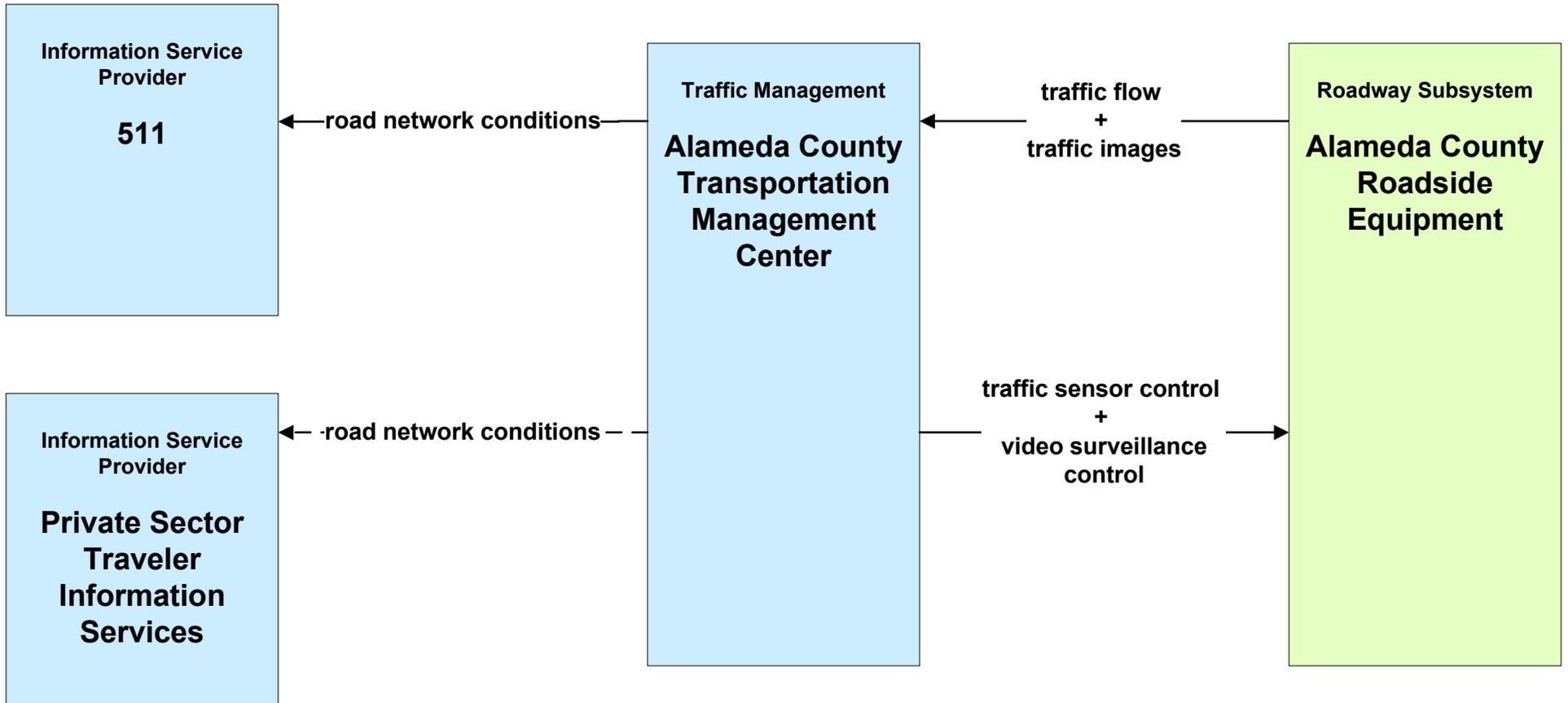
ATIS09 - In Vehicle Signing



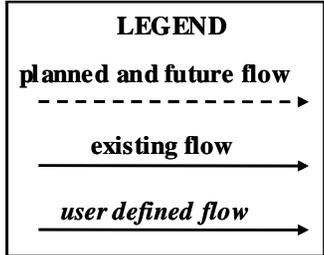
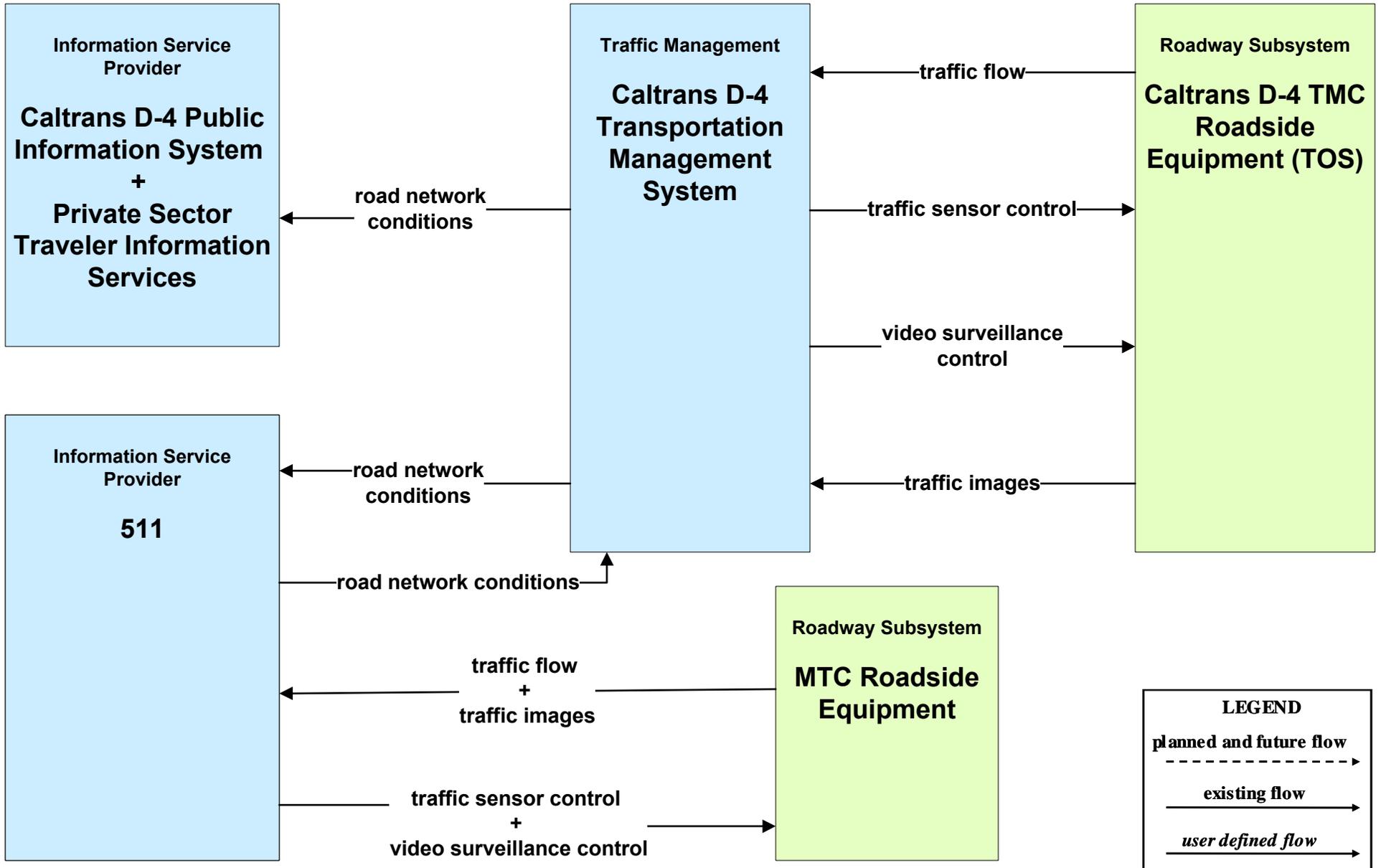
**ATIS10 - Connected Vehicle Traveler Information
and Information Collection**



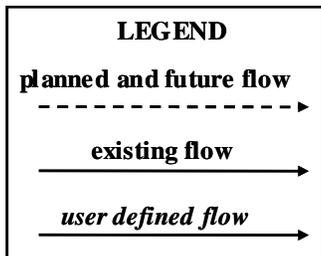
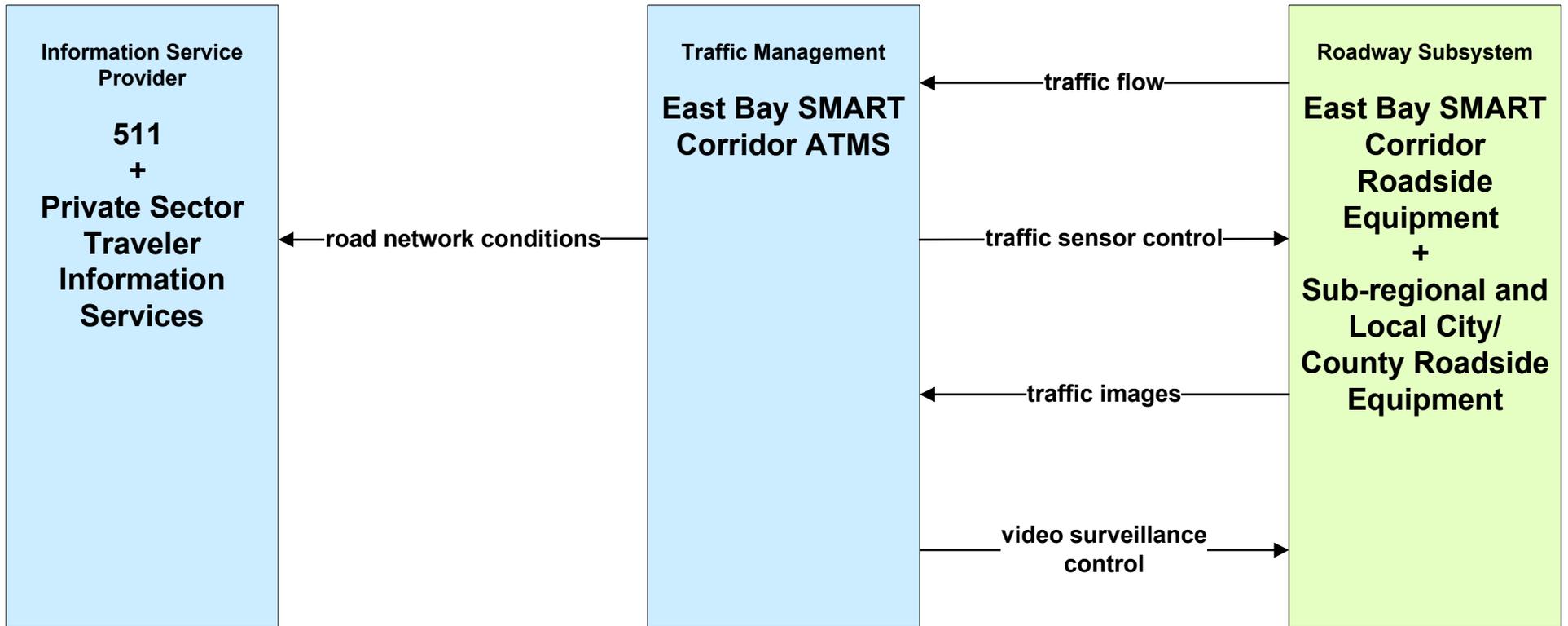
**ATMS01 - Network Surveillance
Alameda County TMC**



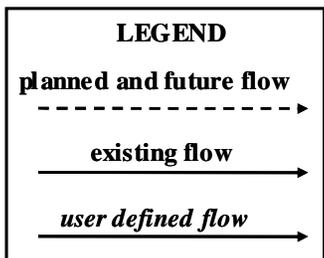
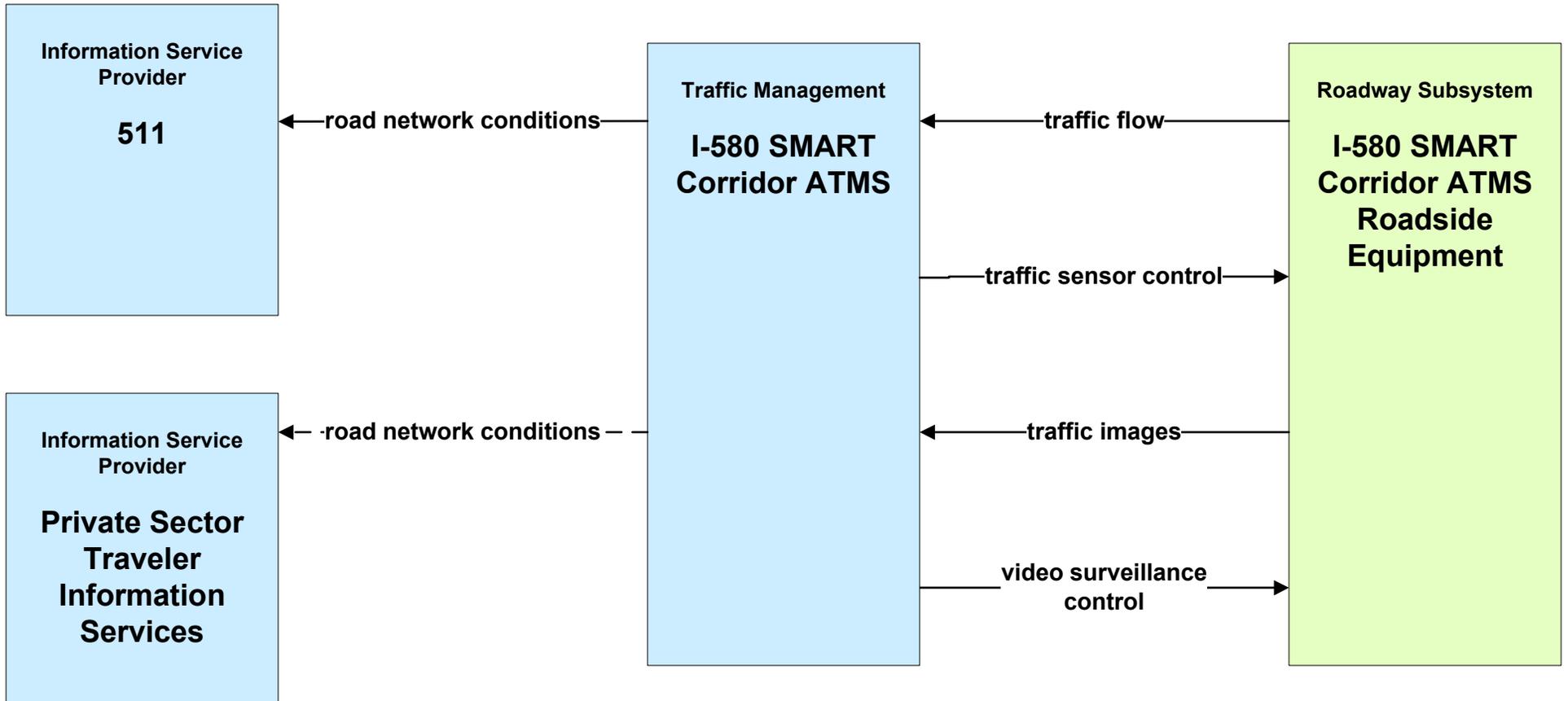
ATMS01 - Network Surveillance
Caltrans D-4 / 511



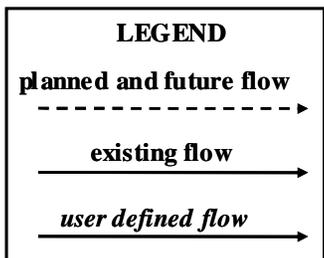
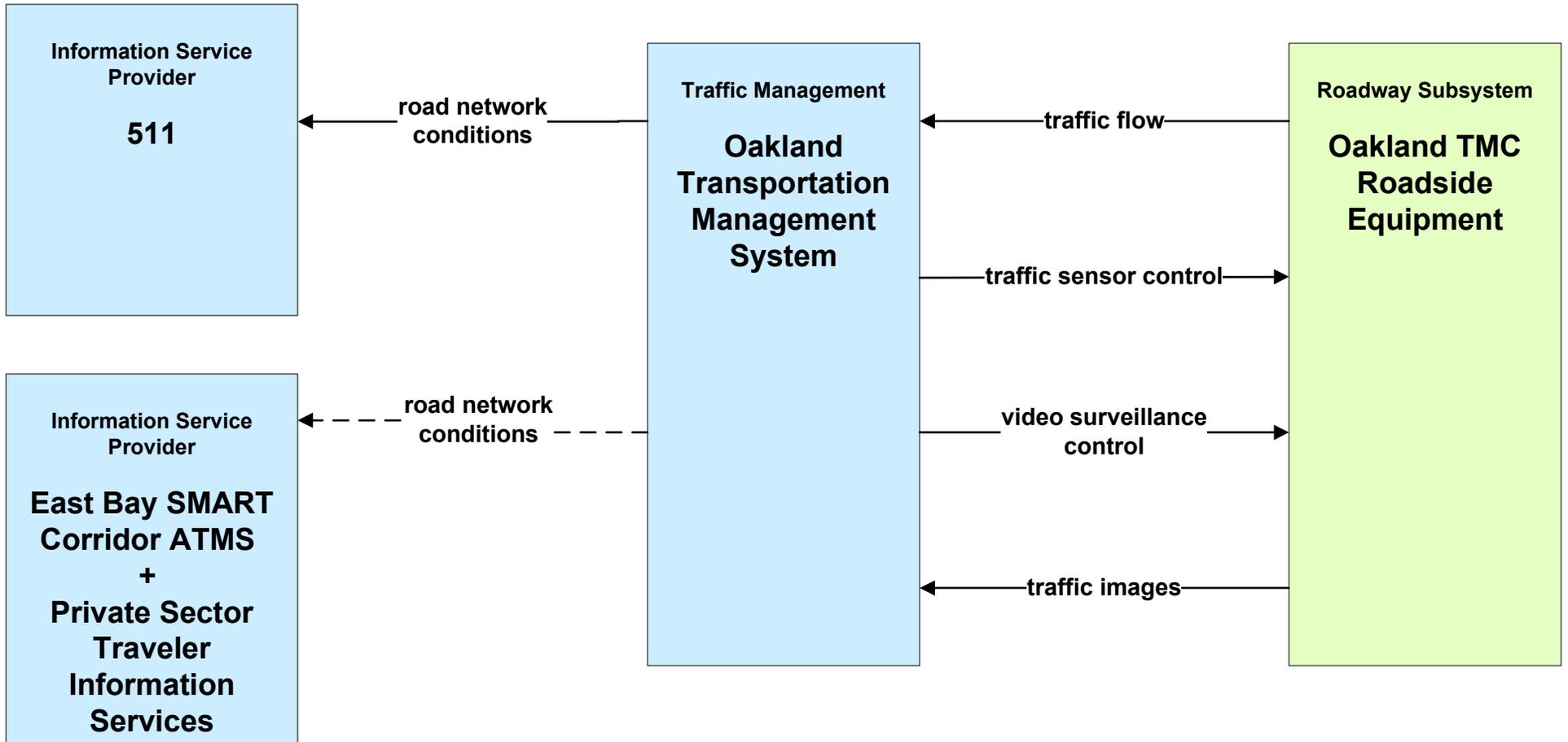
**ATMS01 - Network Monitoring
East Bay SMART Corridor ATMS**



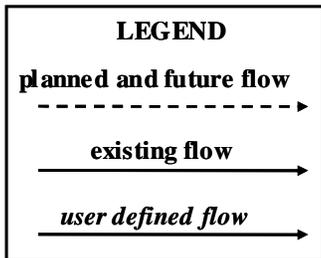
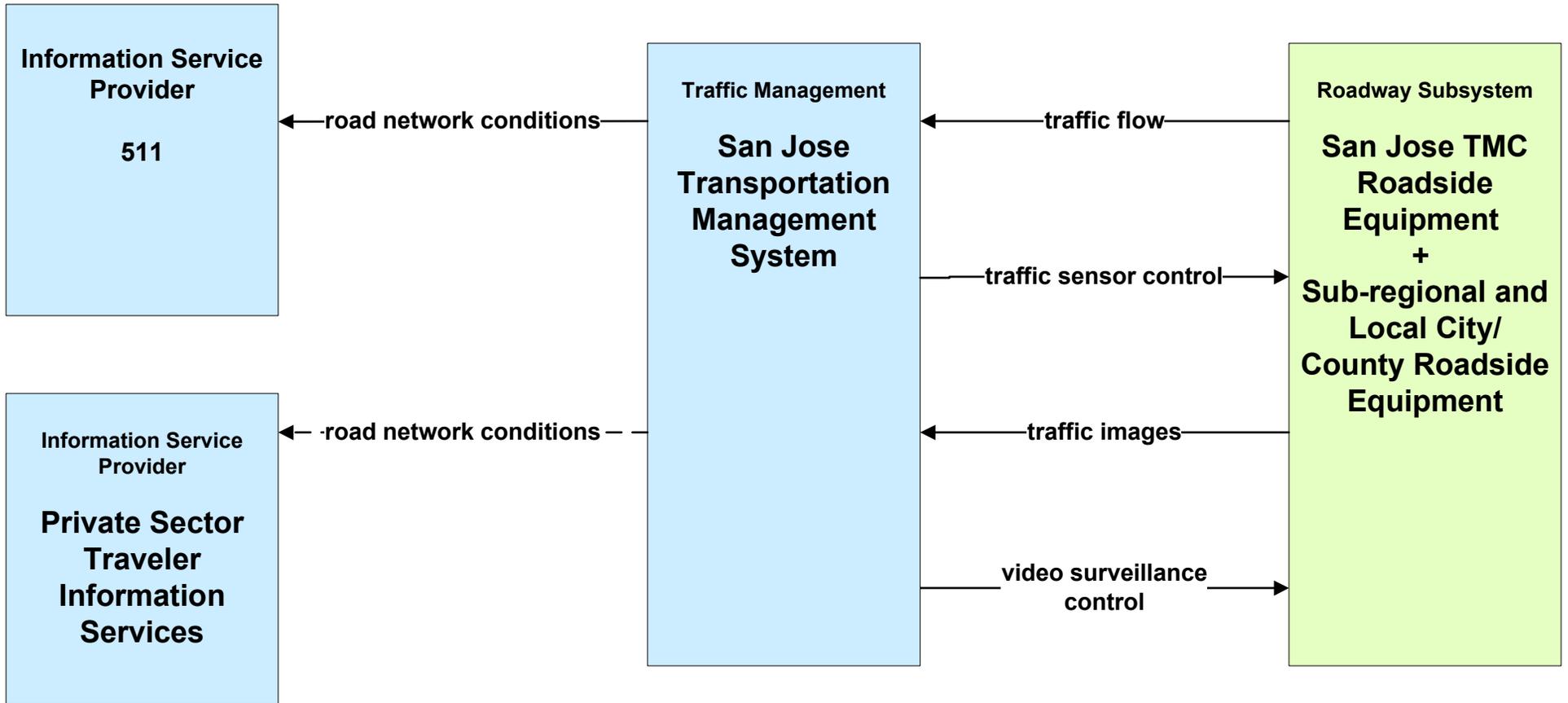
ATMS01 - Network Surveillance I-580 SMART Corridor



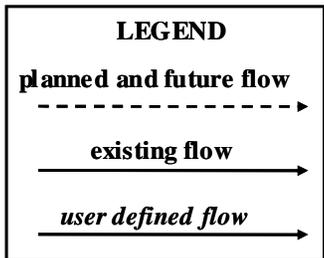
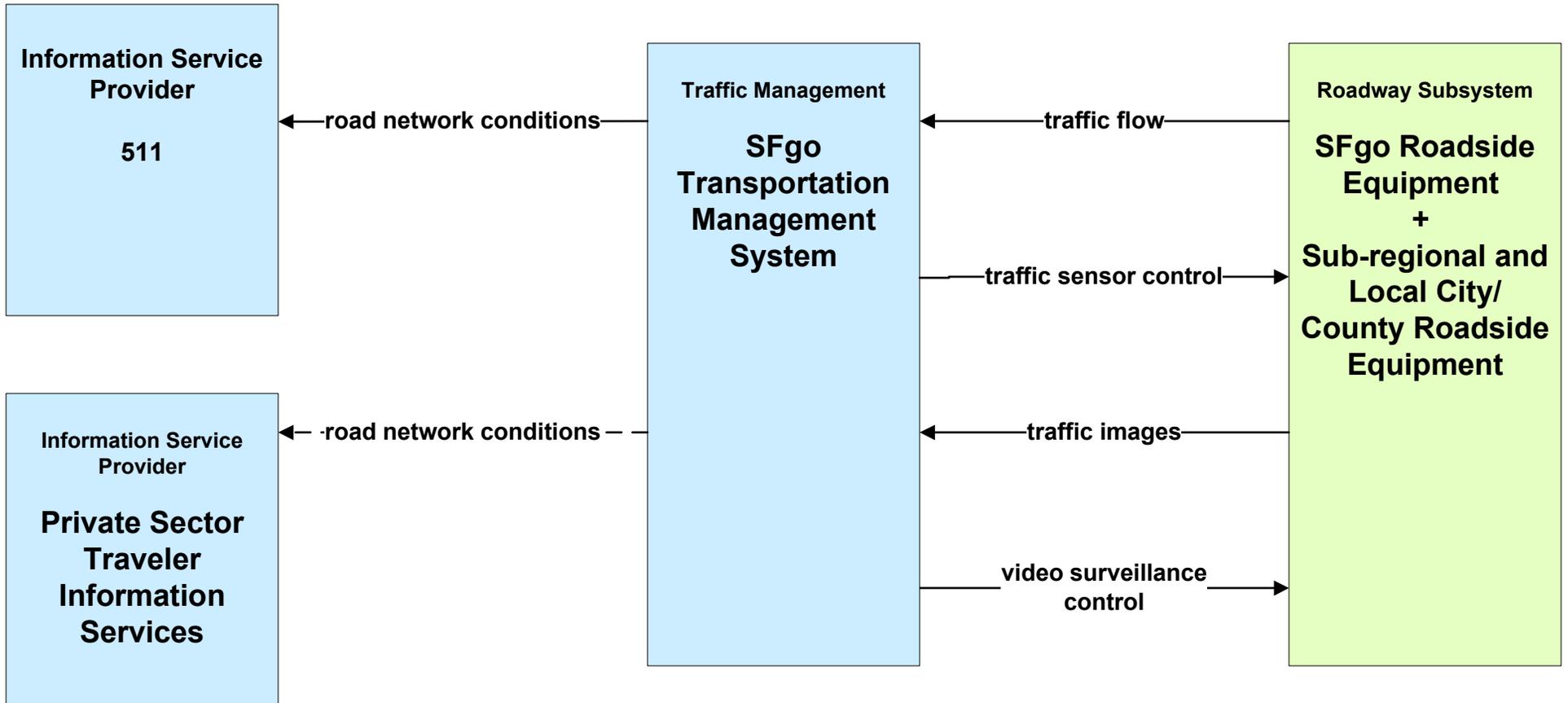
ATMS01 - Network Surveillance Oakland TMS



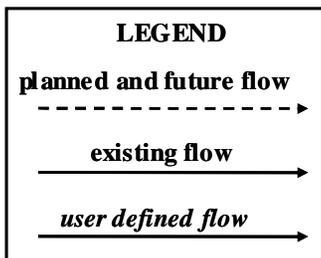
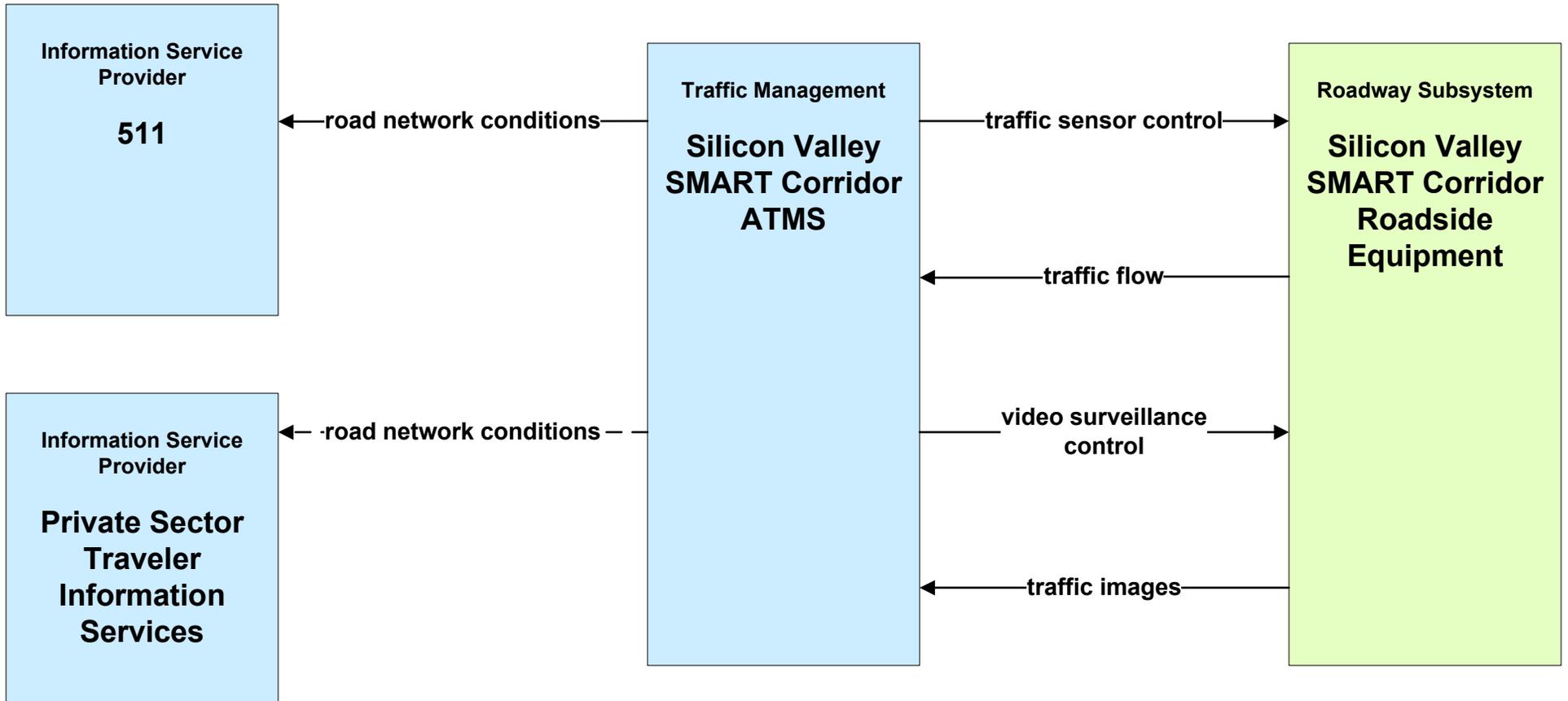
ATMS01 - Network Surveillance
San Jose Transportation Management System



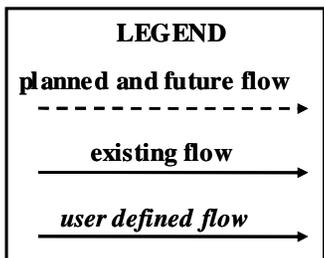
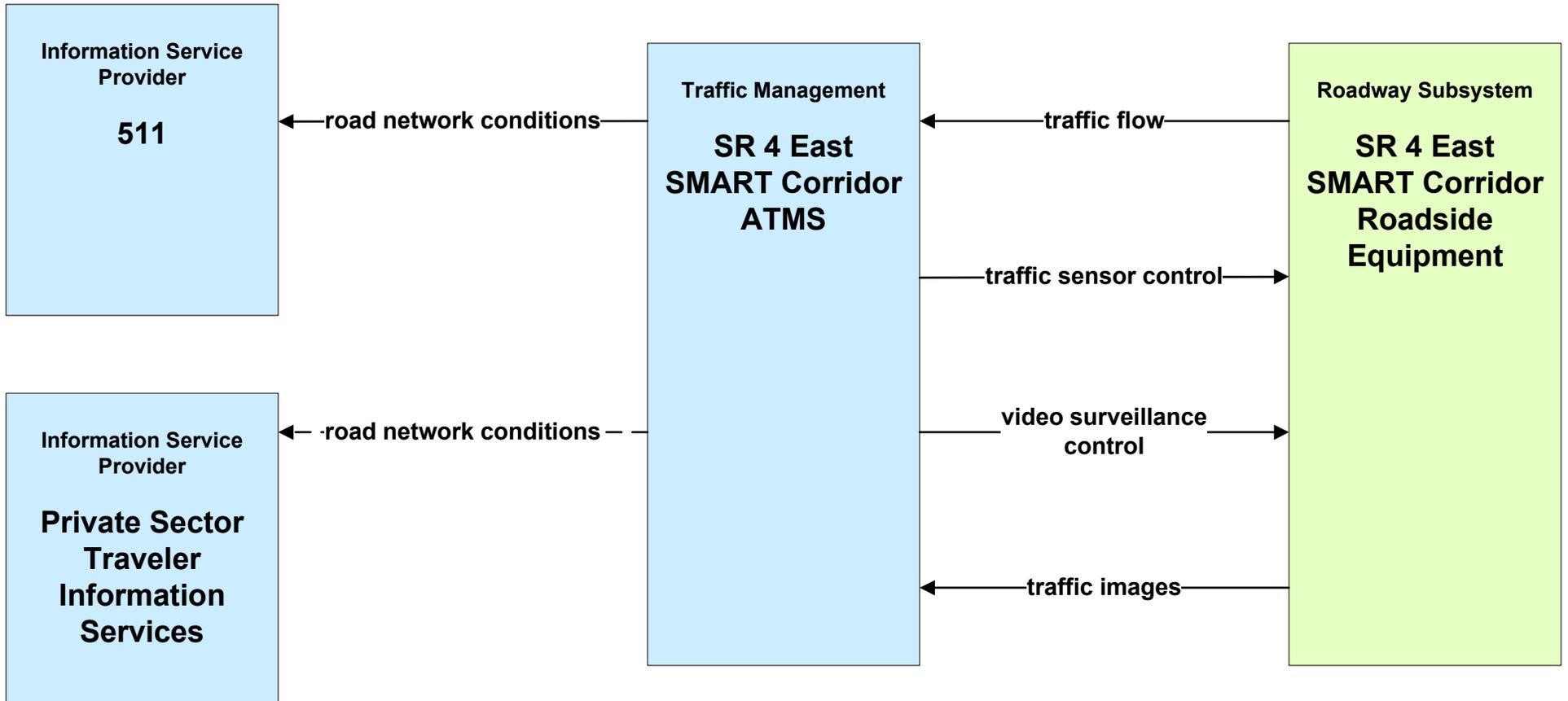
**ATMS01 - Network Surveillance
SFgo Transportation Management System**



ATMS01 - Network Surveillance Silicon Valley ATMS

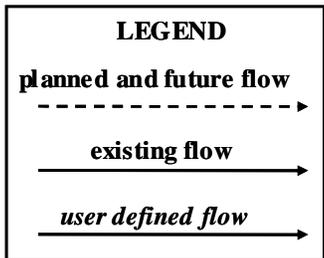
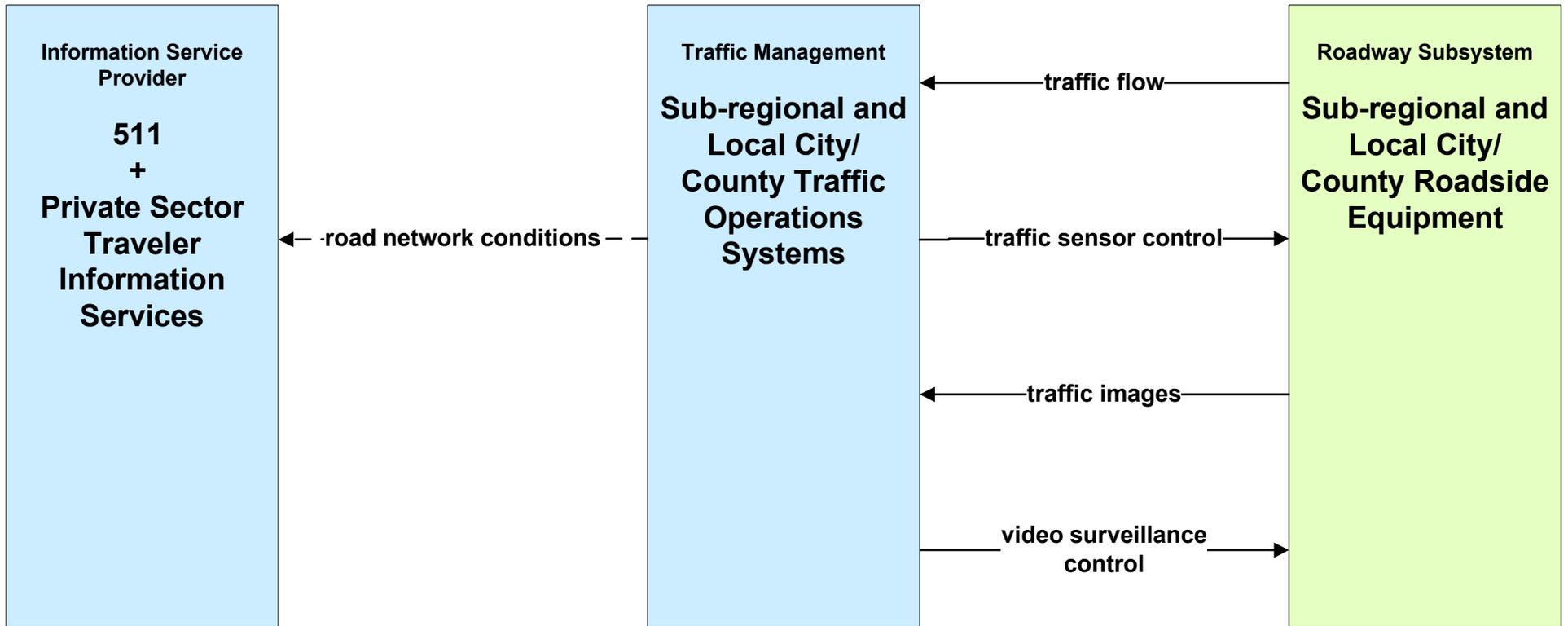


**ATMS01 - Network Surveillance
SR 4 East**



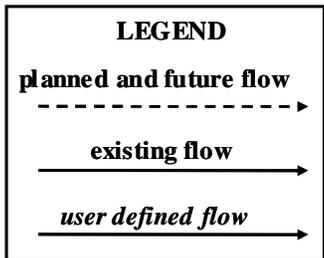
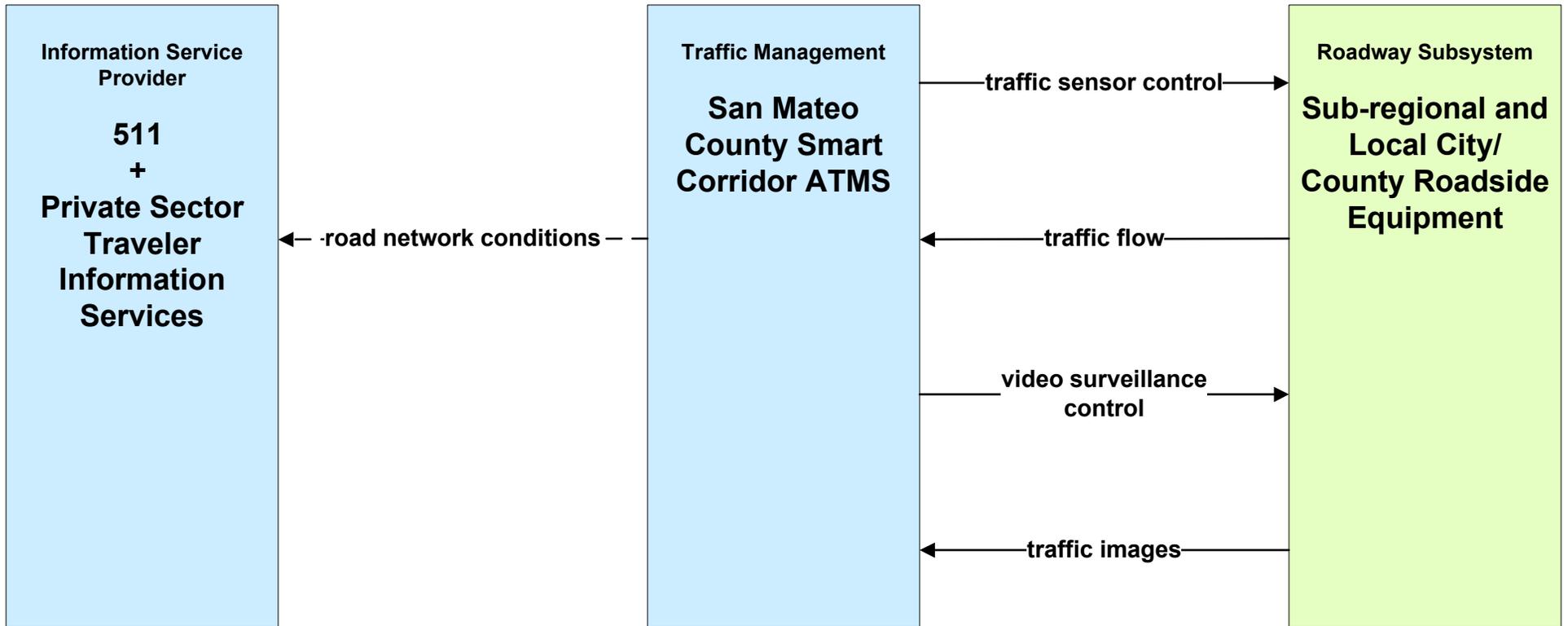
ATMS01 - Network Surveillance

Sub-regional and Local City/County Traffic Operations Systems

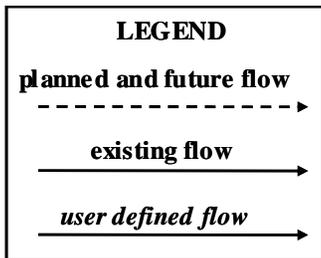
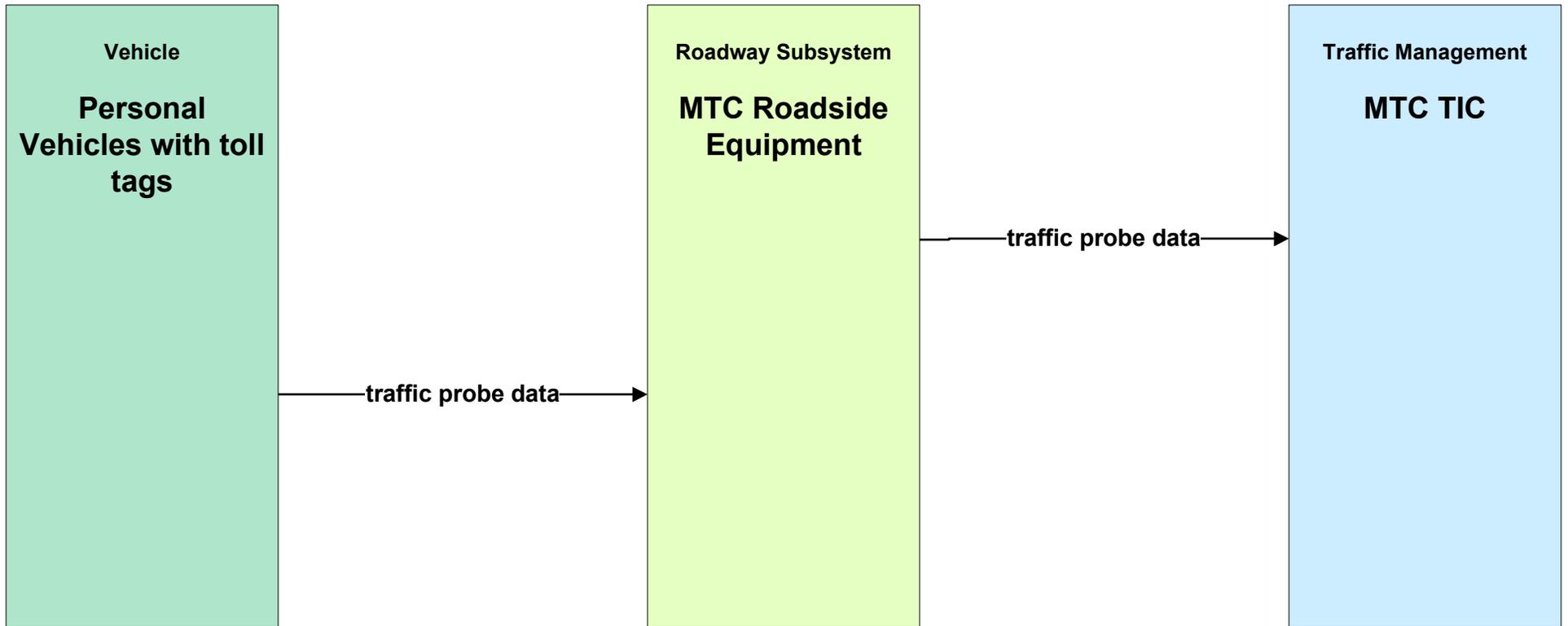


NOTE: Local City/County includes but is not limited to the cities of Antioch, Campbell, Cupertino, Fremont, Gilroy, Livermore, Pleasant Hill, Pleasanton, Redwood City, San Leandro, Santa Clara, Vallejo, Atherton, Belmont, Brisbane, Burlingame, Colma, Daly City, East Palo Alto, Foster City, Half Moon Bay, Hillsborough, Menlo Park, Millbrae, Pacifica, Portola Valley, Redwood City, San Bruno, San Carlos, San Mateo, South San Francisco, Woodside, and counties including Alameda, Contra Costa, San Mateo, Santa Clara, and Solano

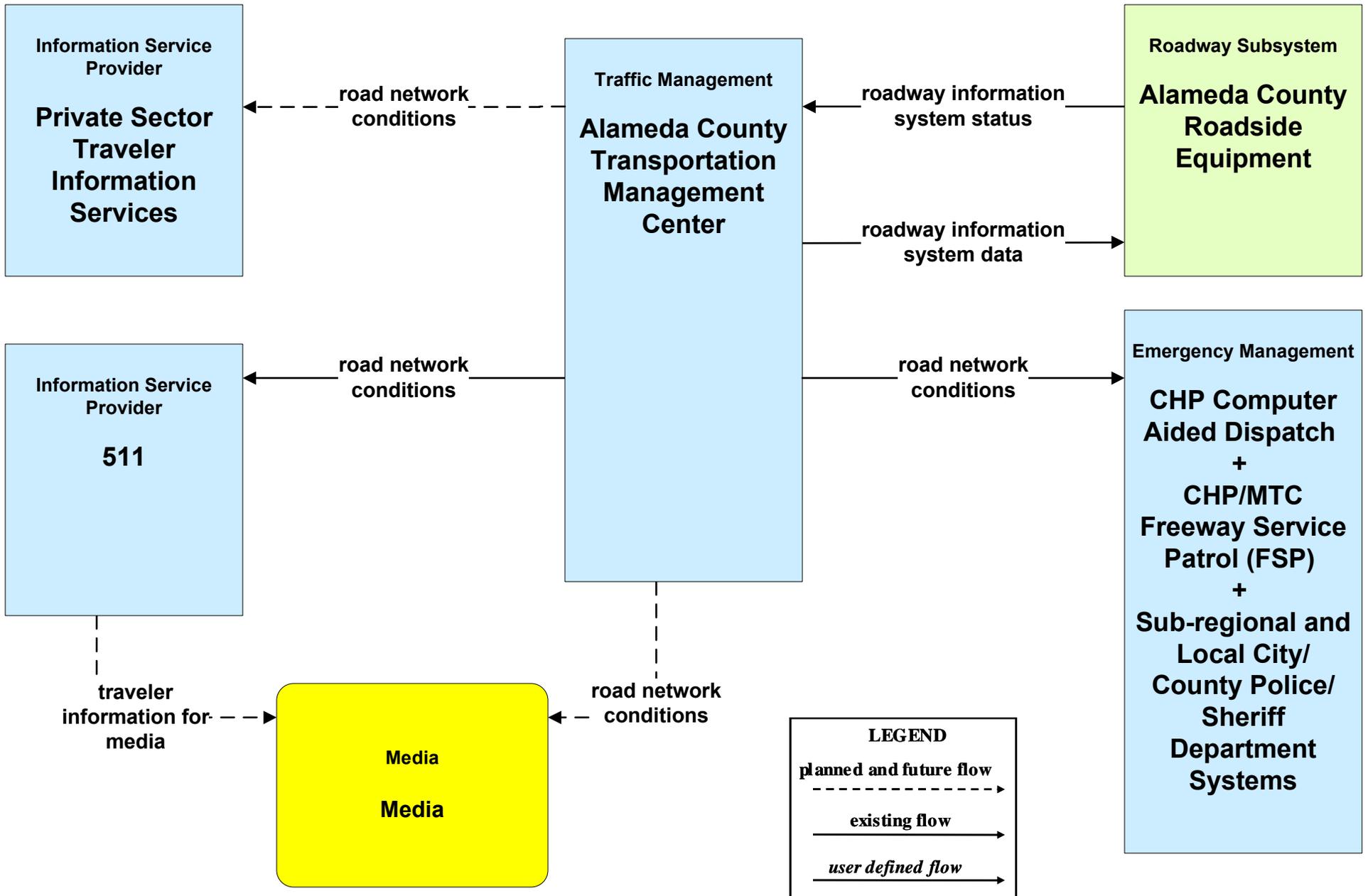
**ATMS01 - Network Surveillance
San Mateo County Smart Corridor**



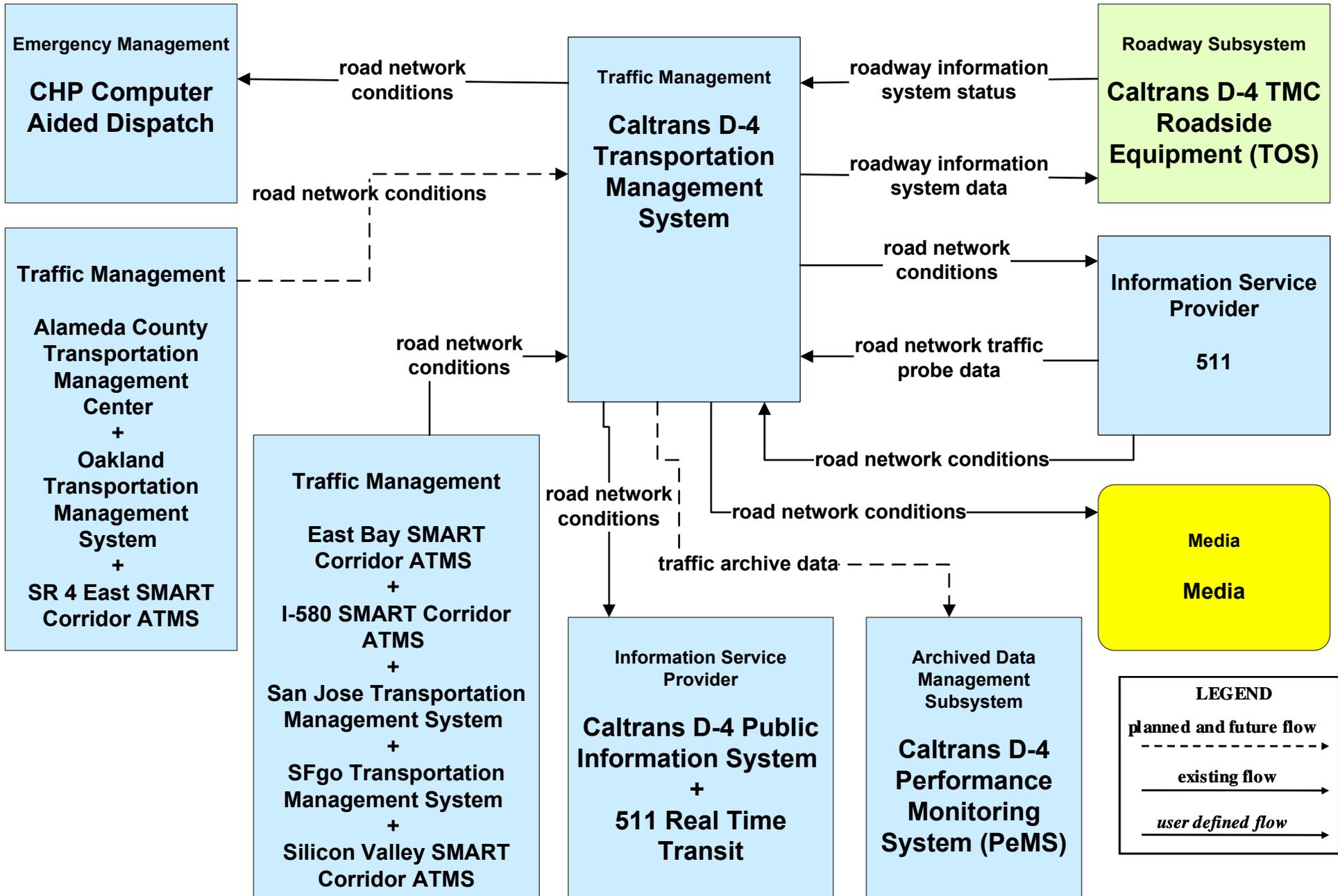
**ATMS02 - Probe Surveillance
MTC TIC**



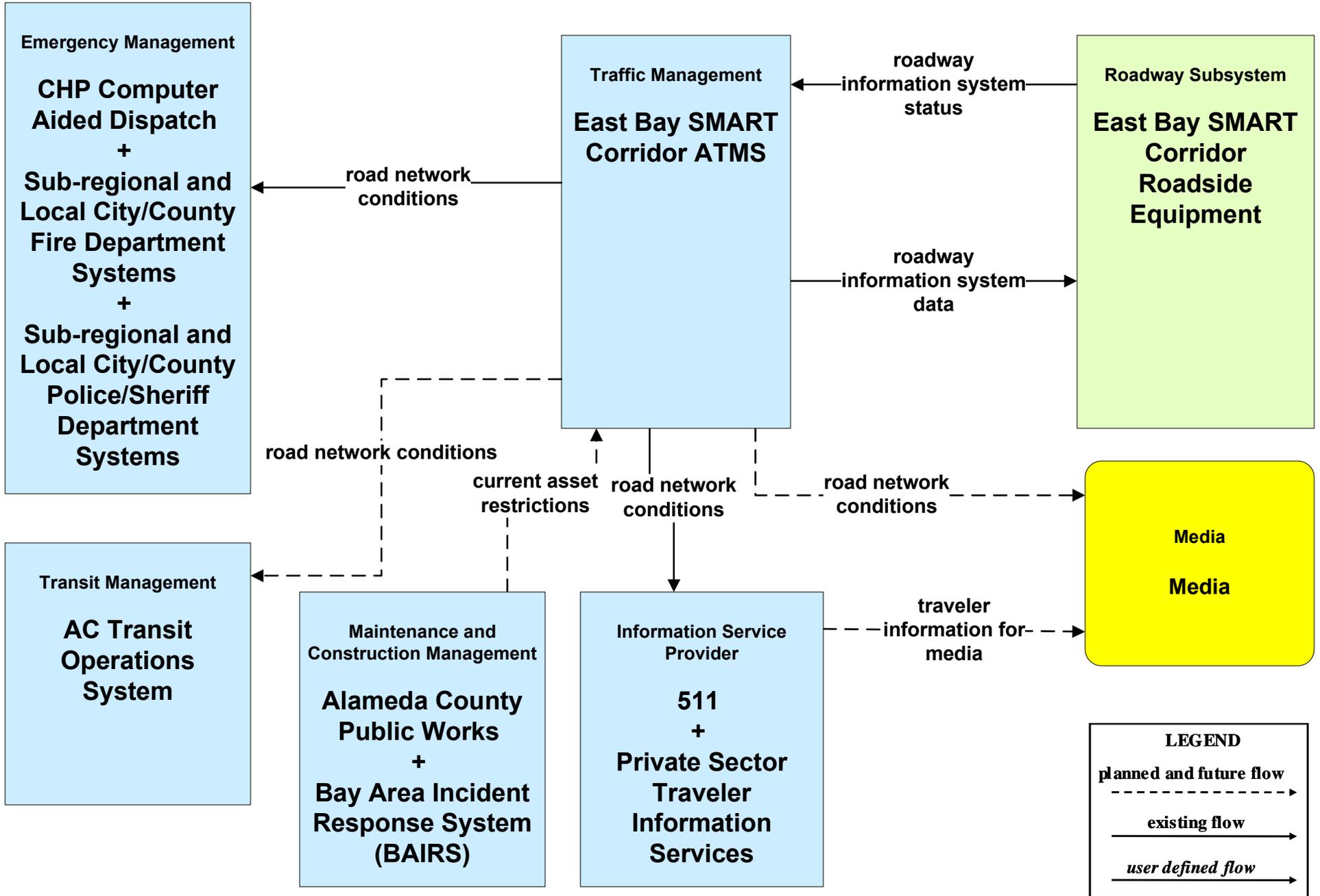
**ATMS06 - Traffic Information Dissemination
Alameda County TMC**



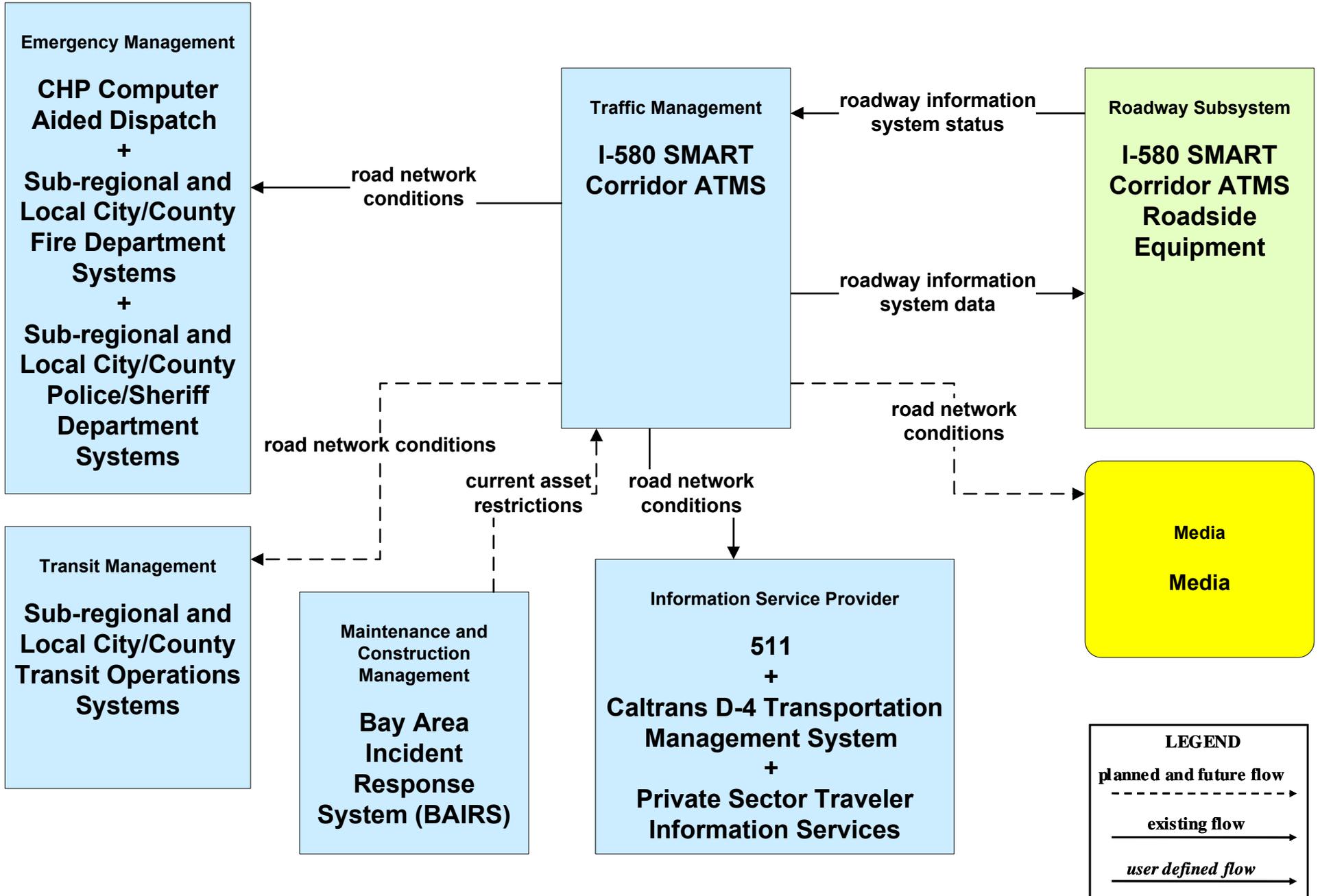
ATMS06 - Traffic Information Dissemination Caltrans D-4



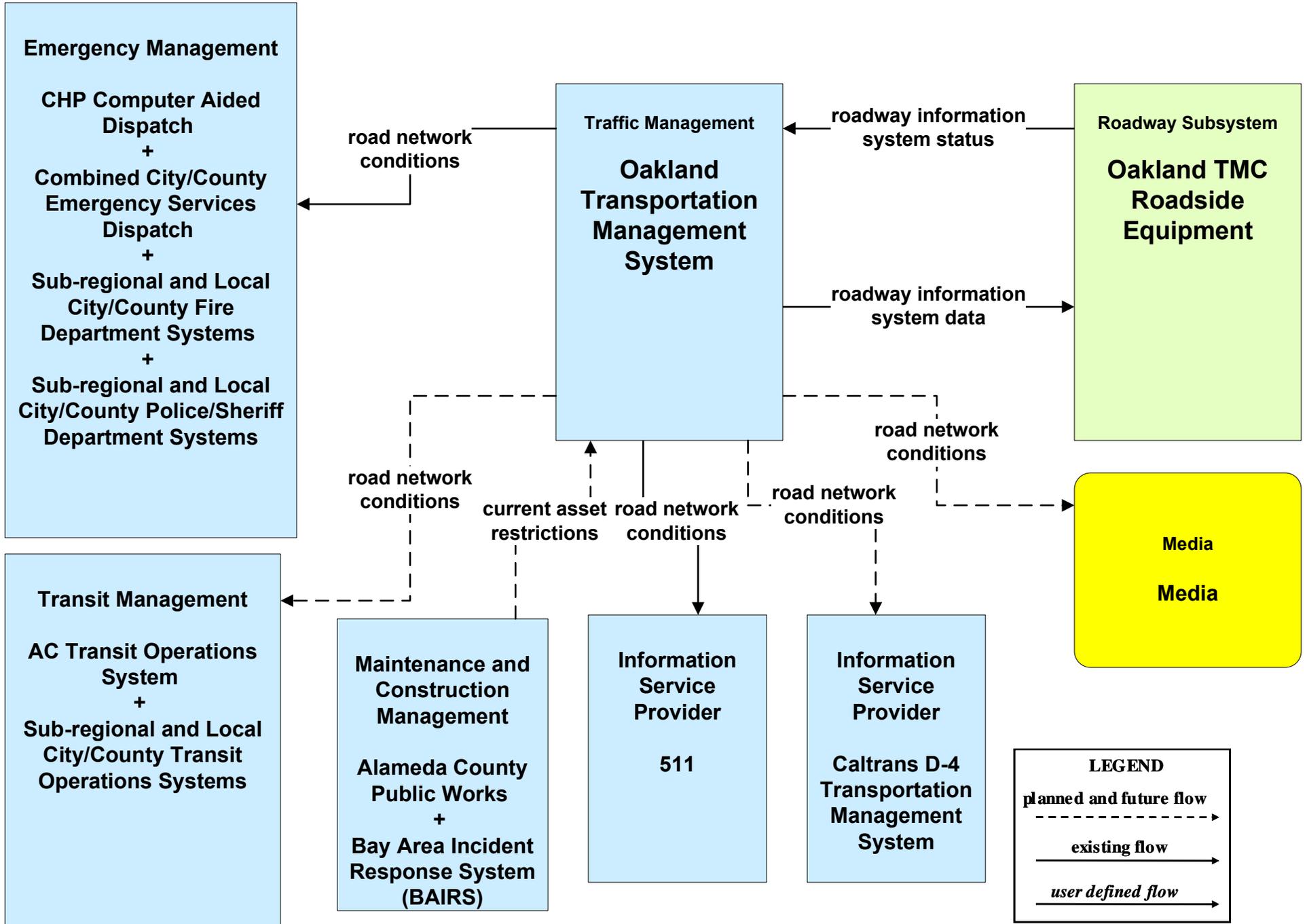
ATMS06 - Traffic Information Dissemination East Bay SMART Corridor ATMS



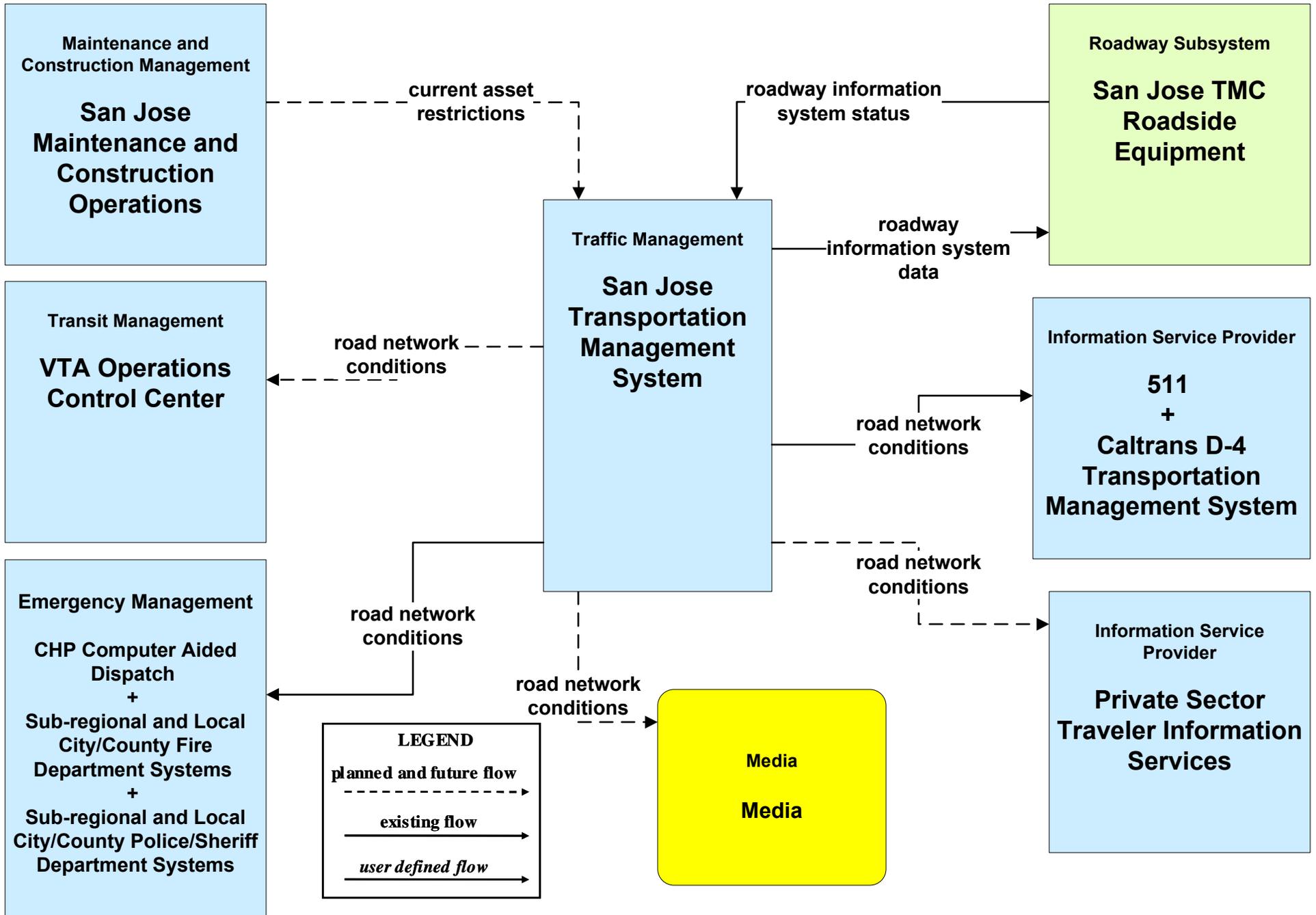
ATMS06 - Traffic Information Dissemination I-580 SMART Corridor ATMS



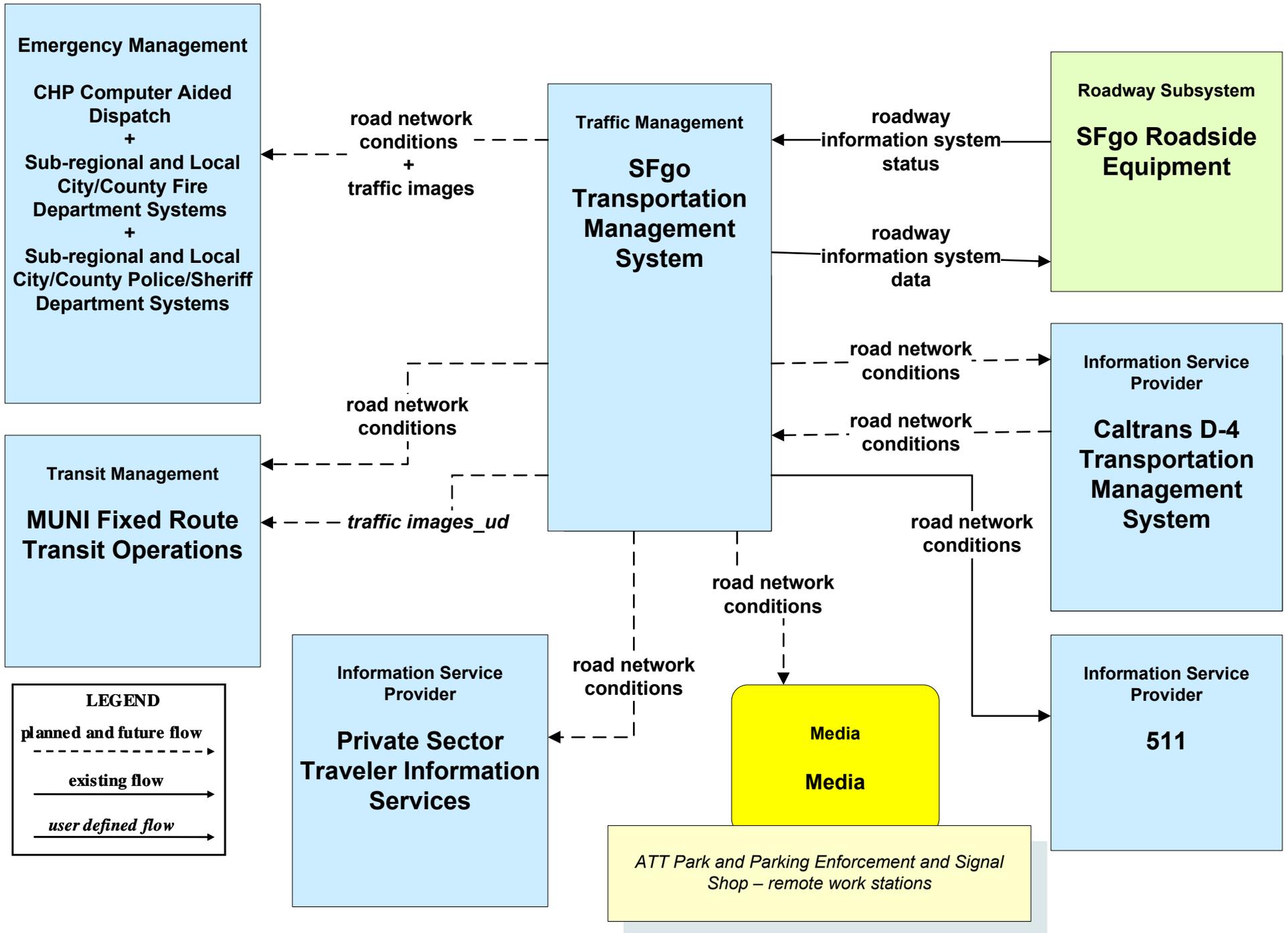
ATMS06 - Traffic Information Dissemination Oakland TMS



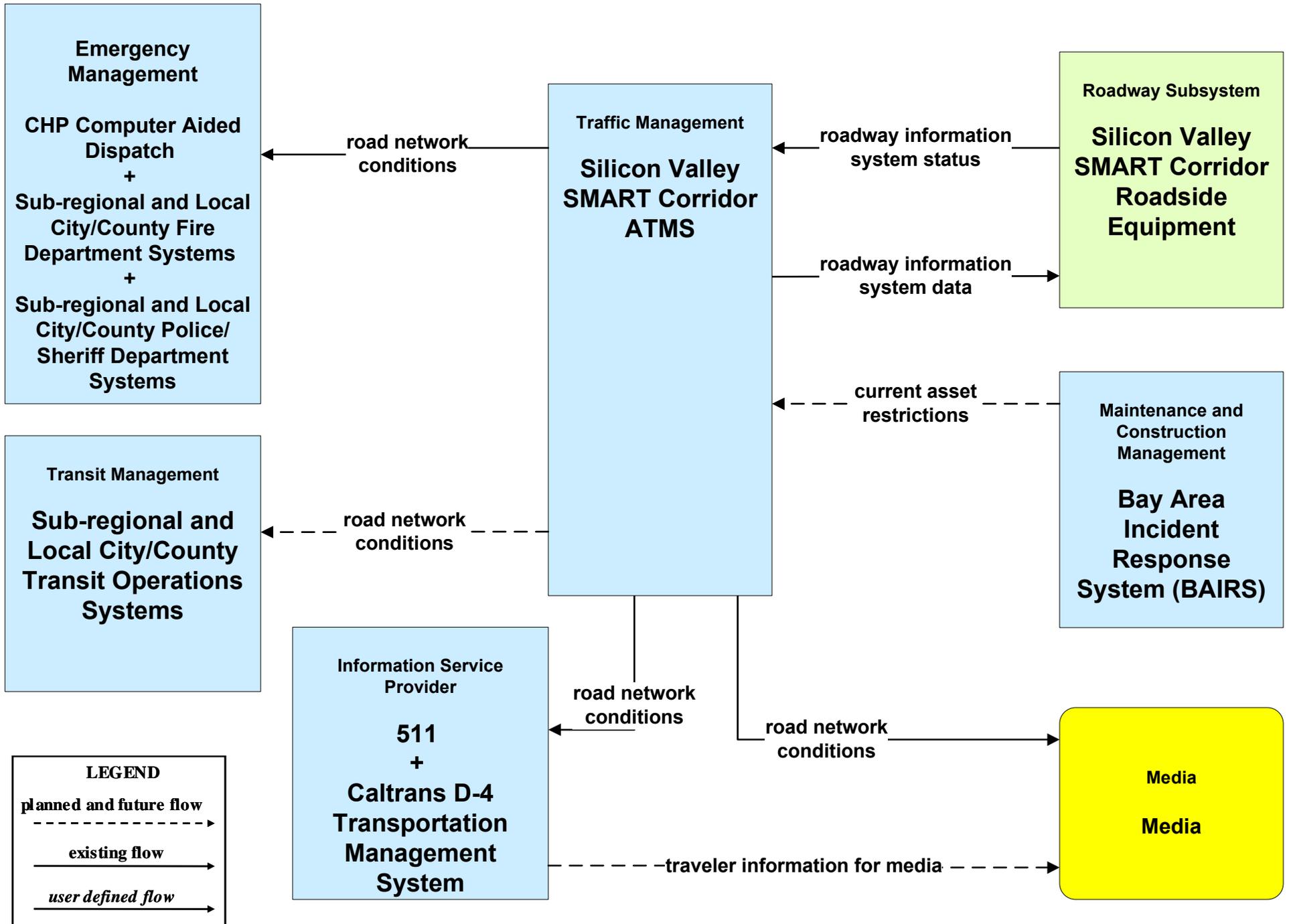
ATMS06 - Traffic Information Dissemination San Jose TMS



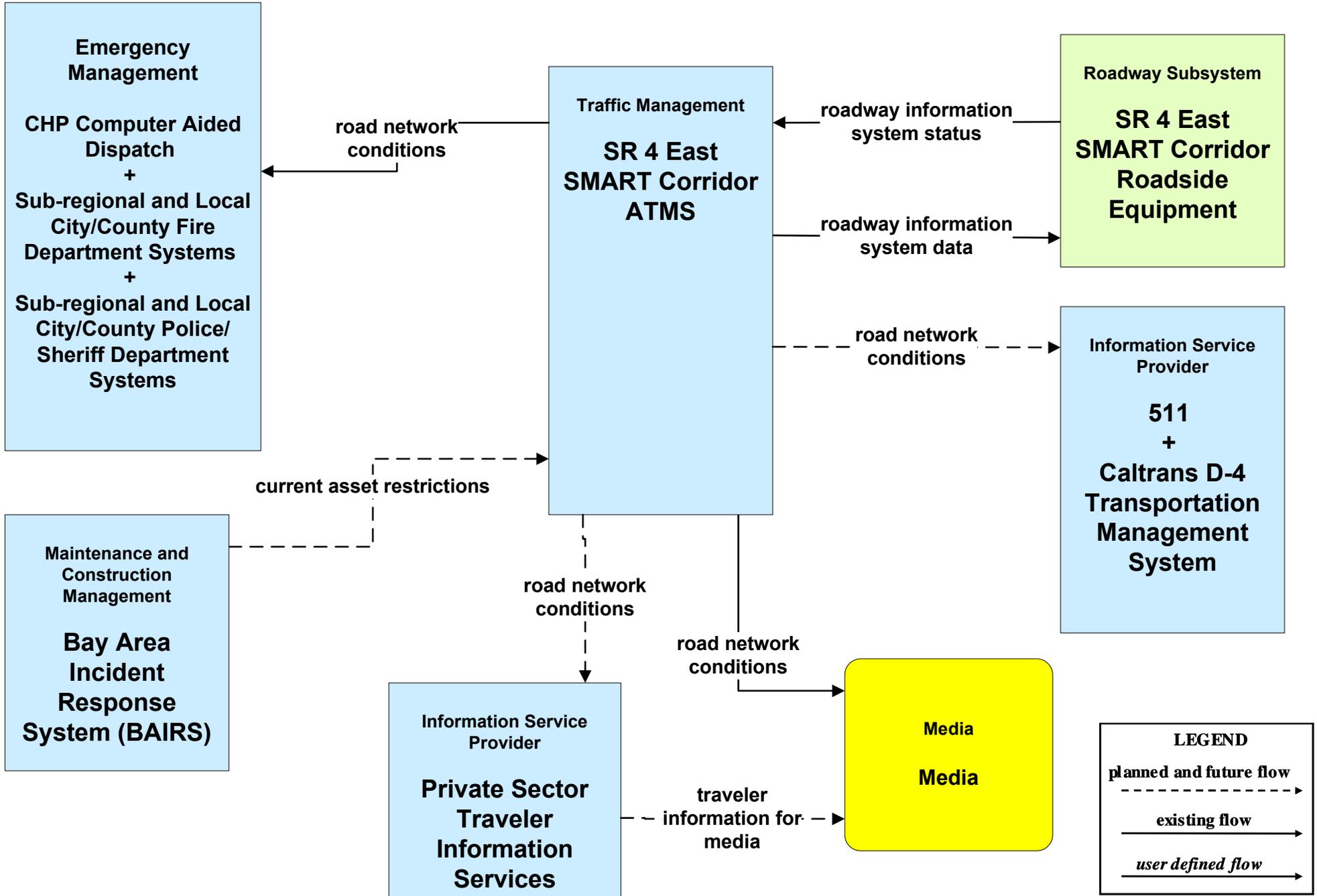
ATMS06 - Traffic Information Dissemination SFgo TMS



ATMS06 - Traffic Information Dissemination Silicon Valley ATMS

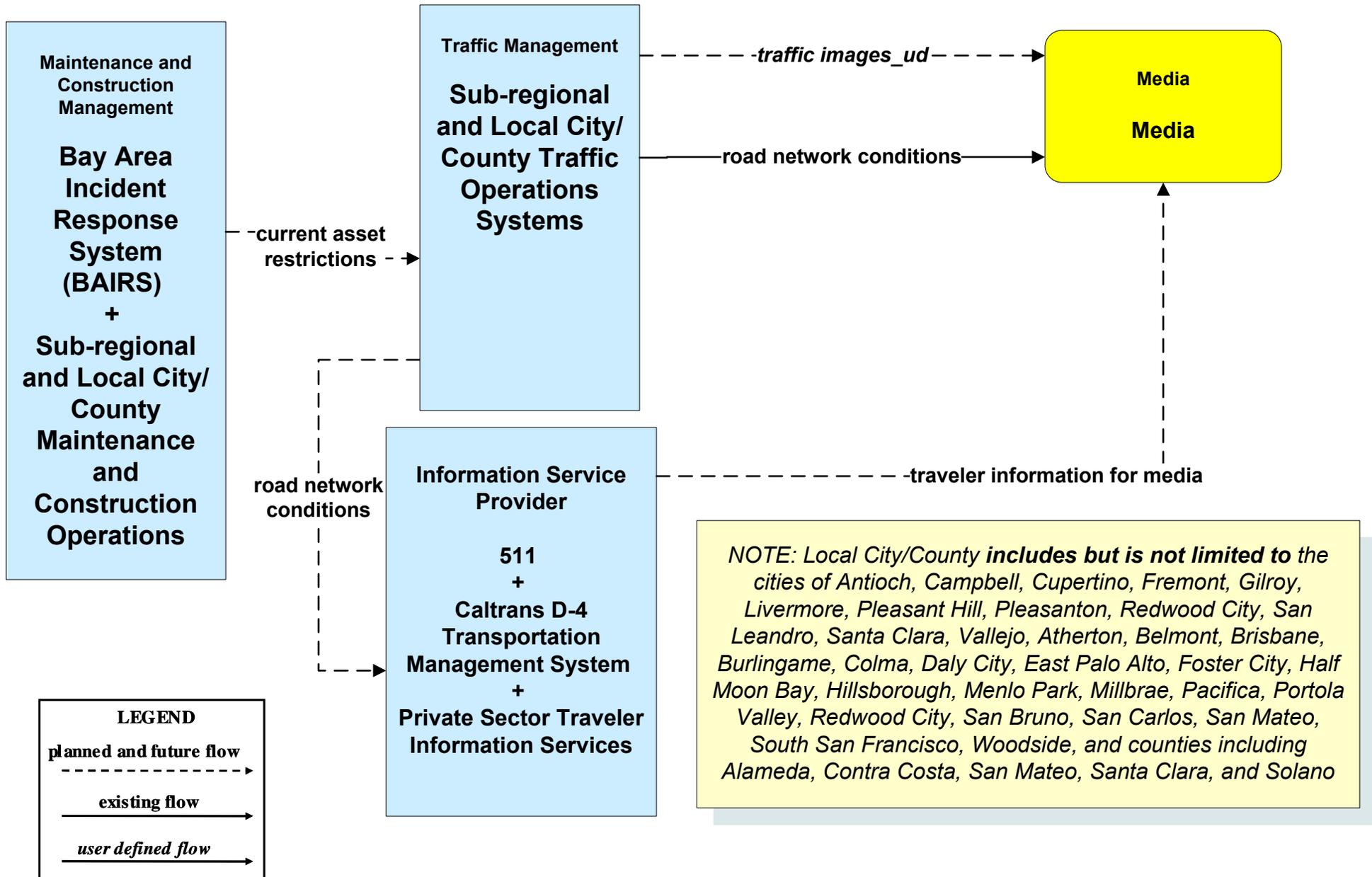


ATMS06 - Traffic Information Dissemination SR 4 East ATMS

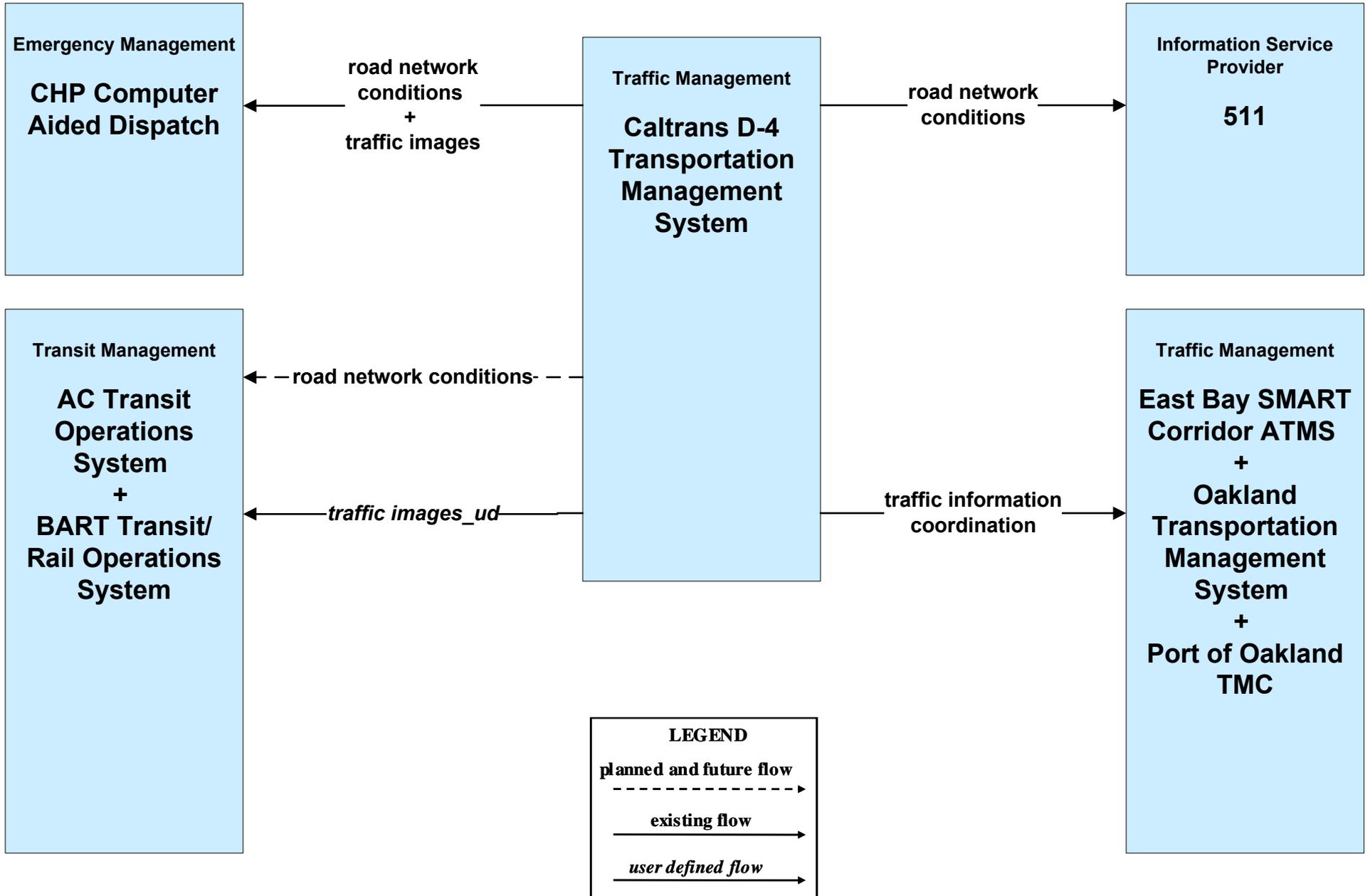


ATMS06 - Traffic Information Dissemination

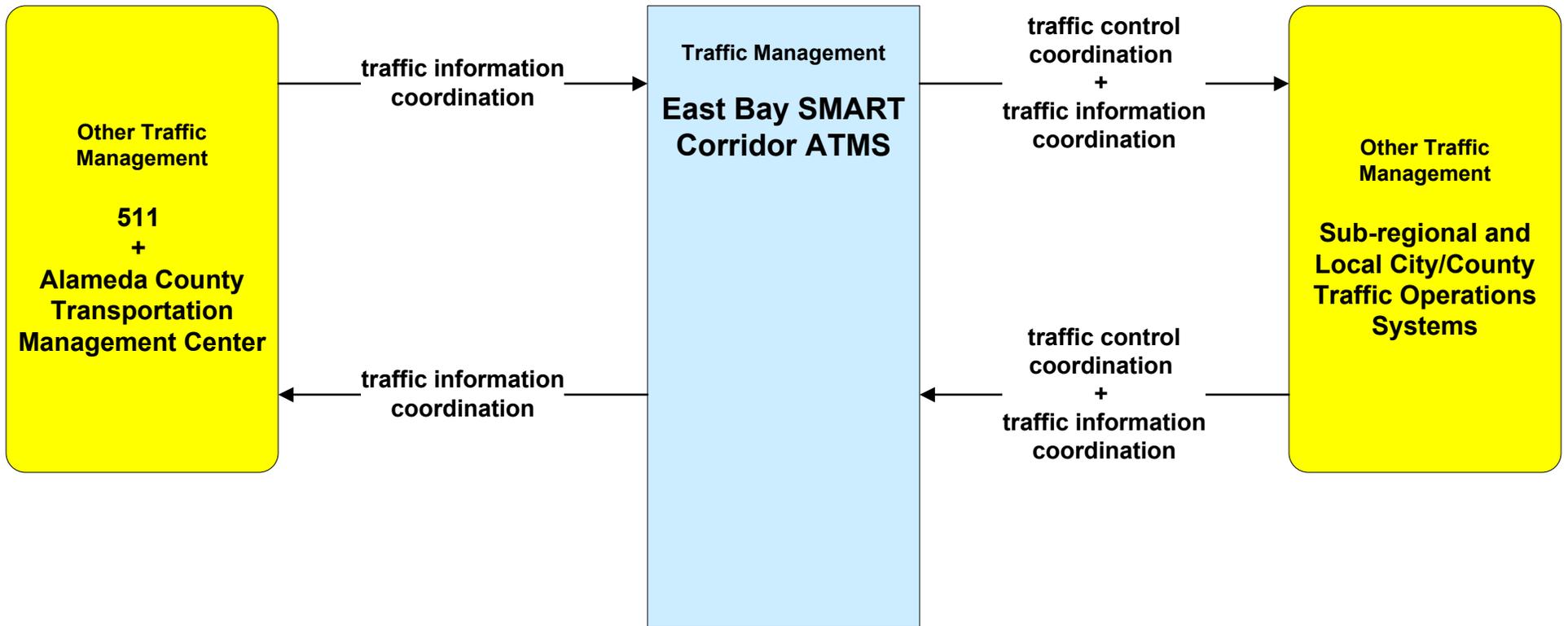
Local City/County Traffic Operations (2 of 2)



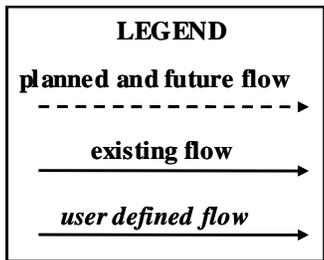
**ATMS06 - Traffic Information Dissemination
Caltrans- ICM**



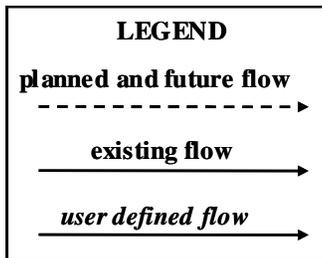
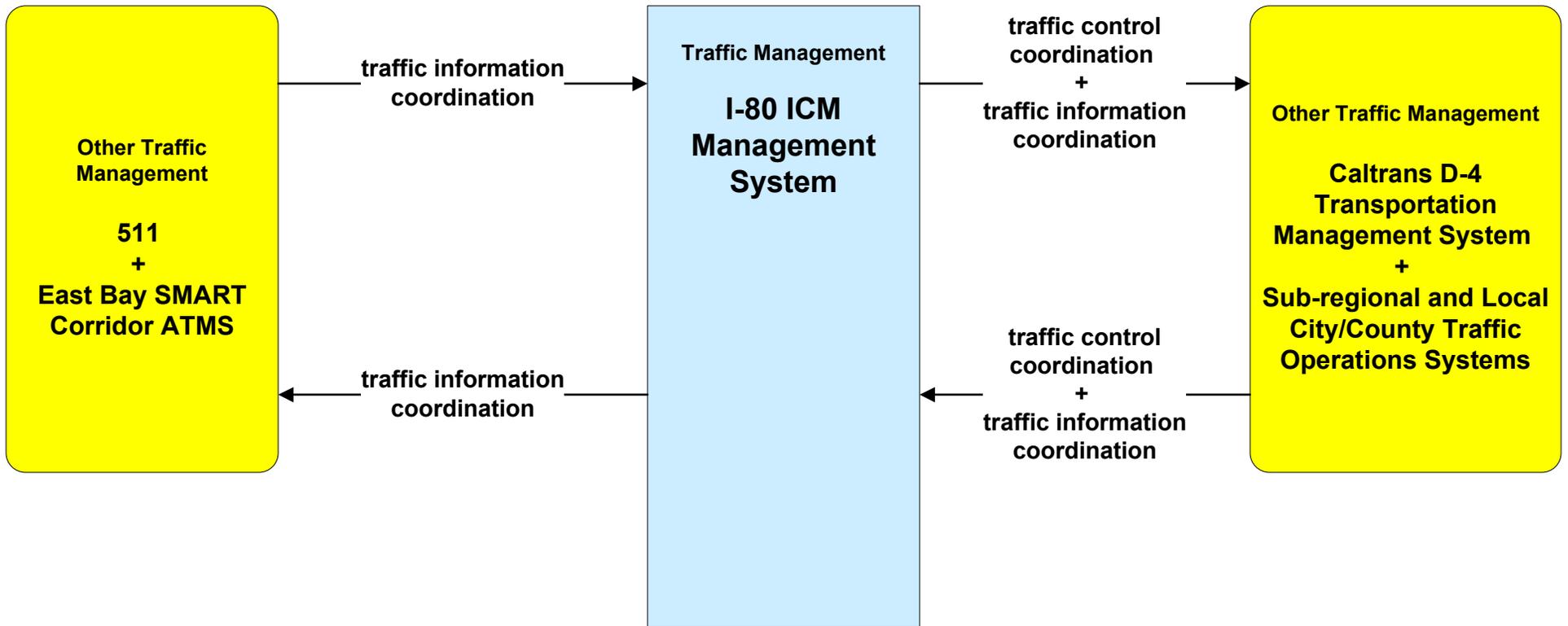
ATMS07 - Regional Traffic Management East Bay SMART Corridor ATMS



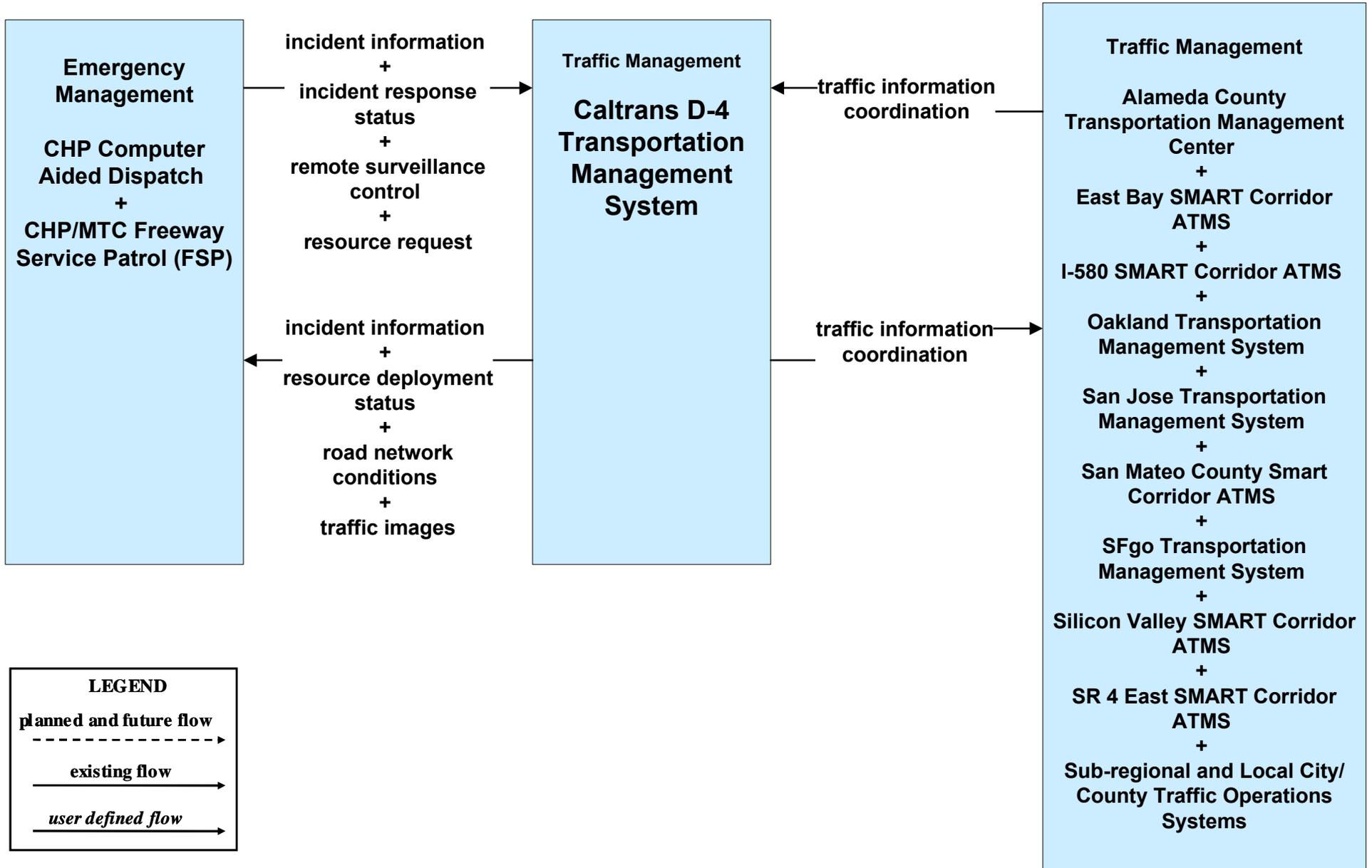
NOTE: 511 sends Freeway Information – to East Bay SMART Corridor ATMS



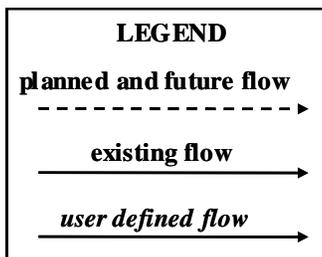
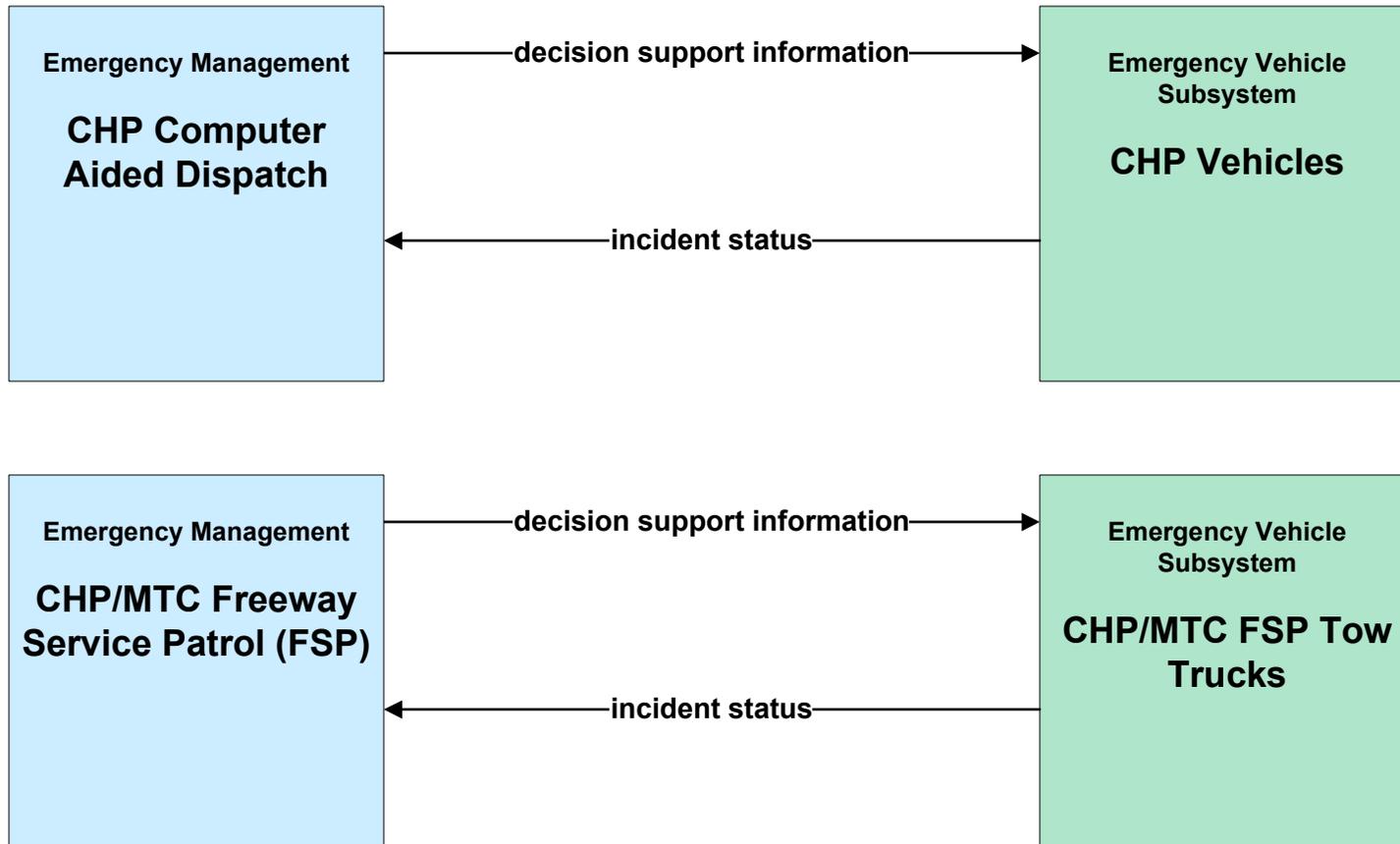
**ATMS07 - Regional Traffic Management
I-80 ICM Management Center**



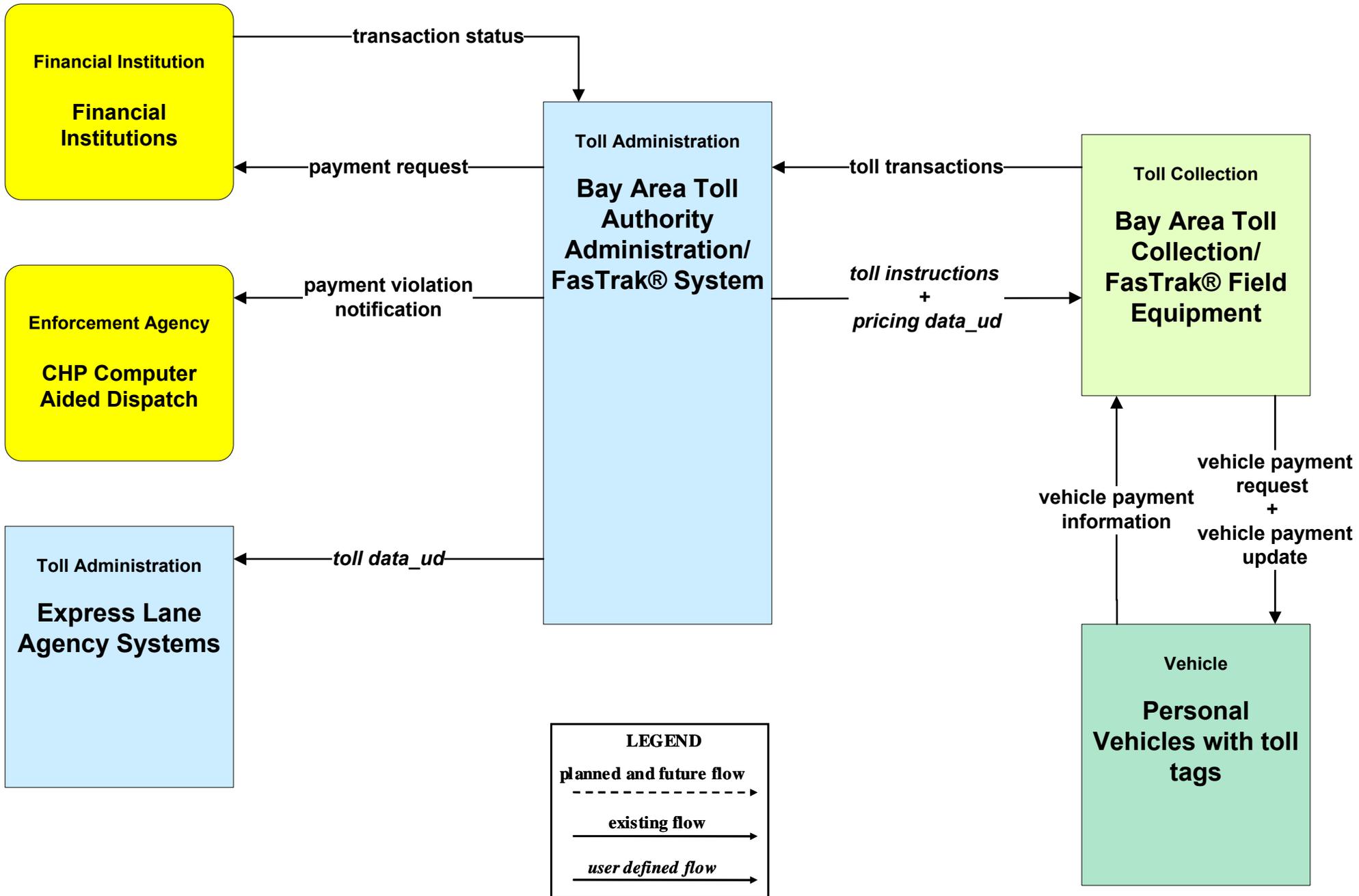
ATMS08 - Incident Management Caltrans D-4 (TM) (1 of 2)



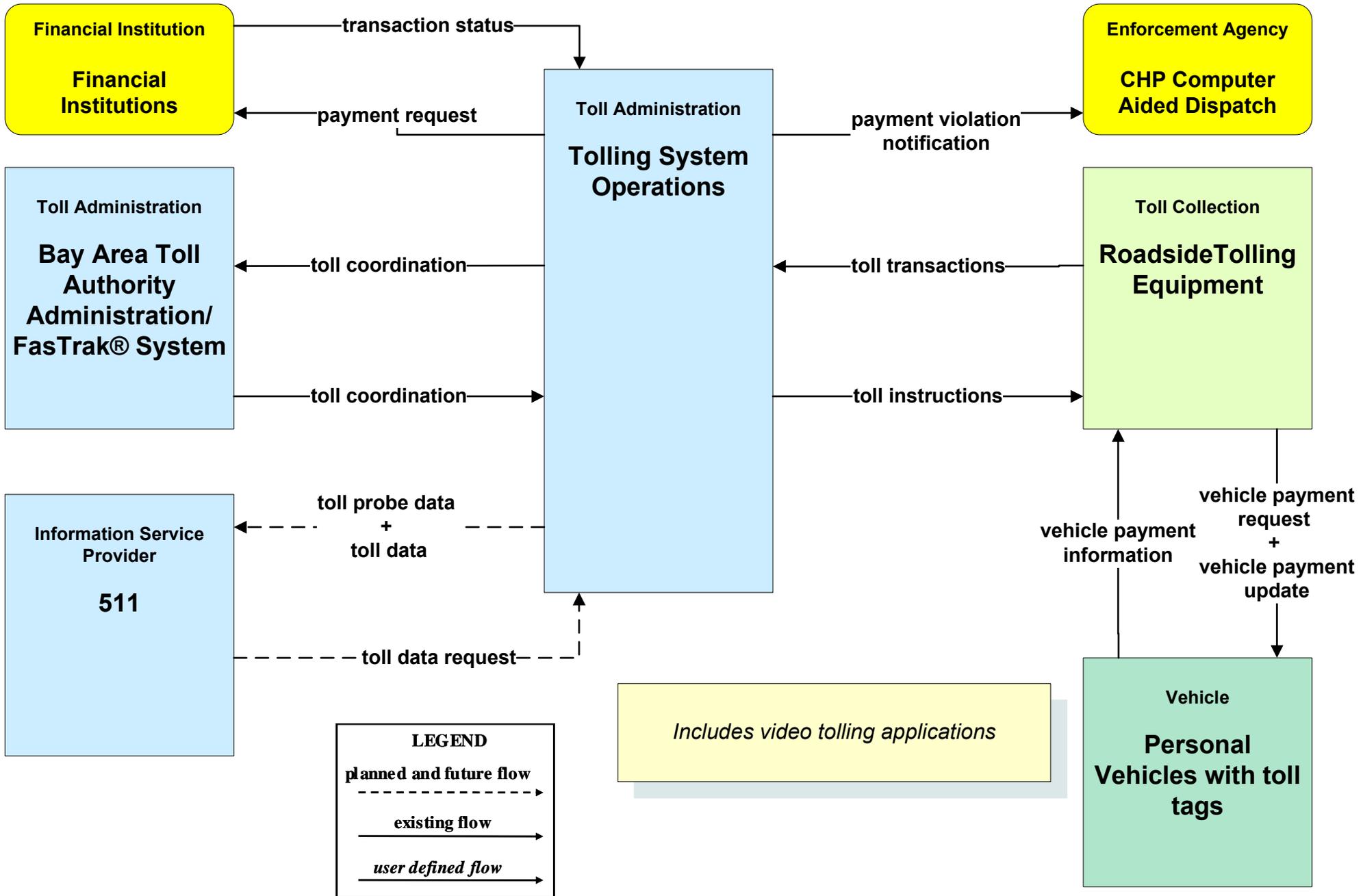
**ATMS08 - Incident Management
CHP (EM to EVS)**



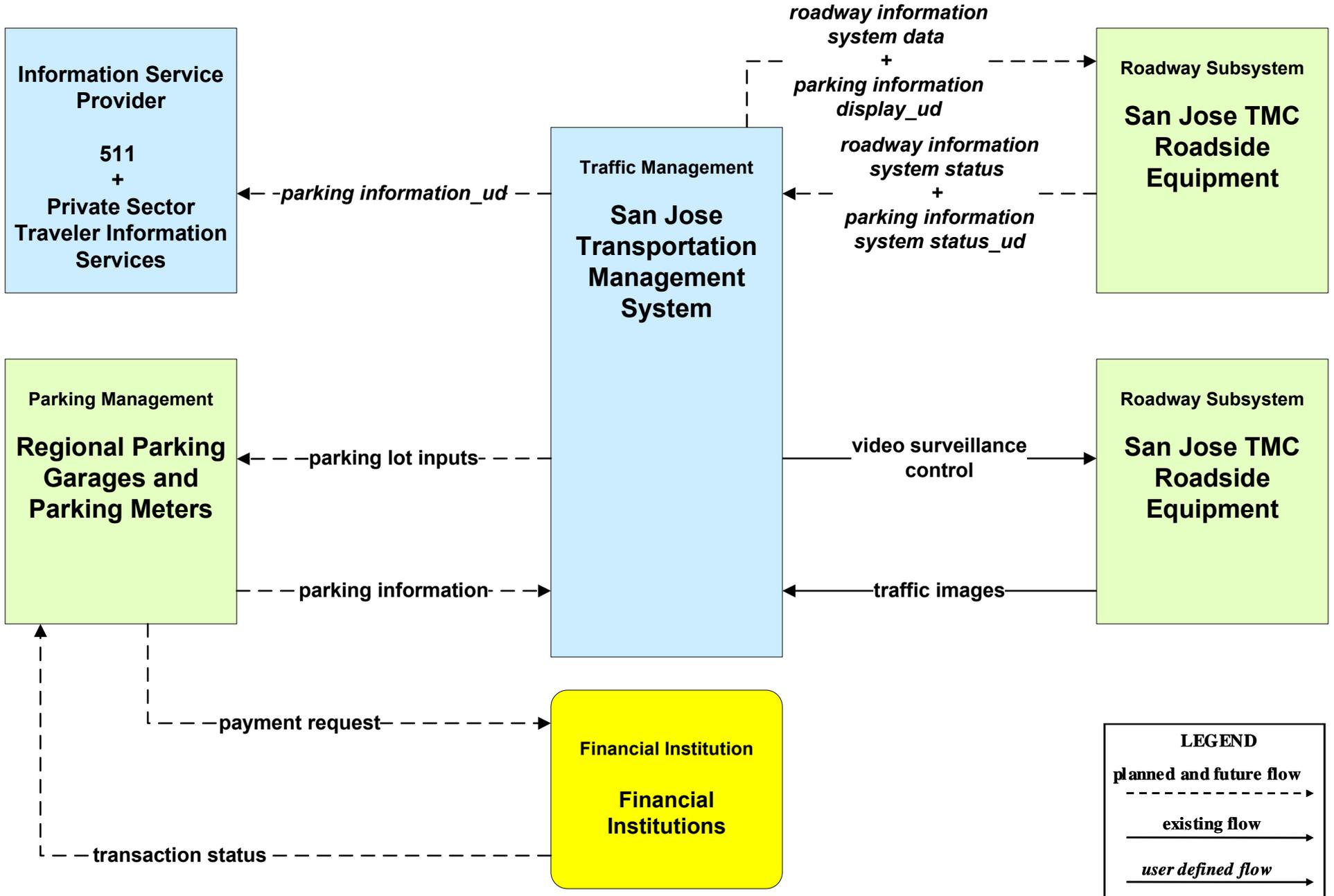
**ATMS10 - Electronic Toll Collection
 Bay Area Toll Authority FasTrak® System
 Current Implementation**



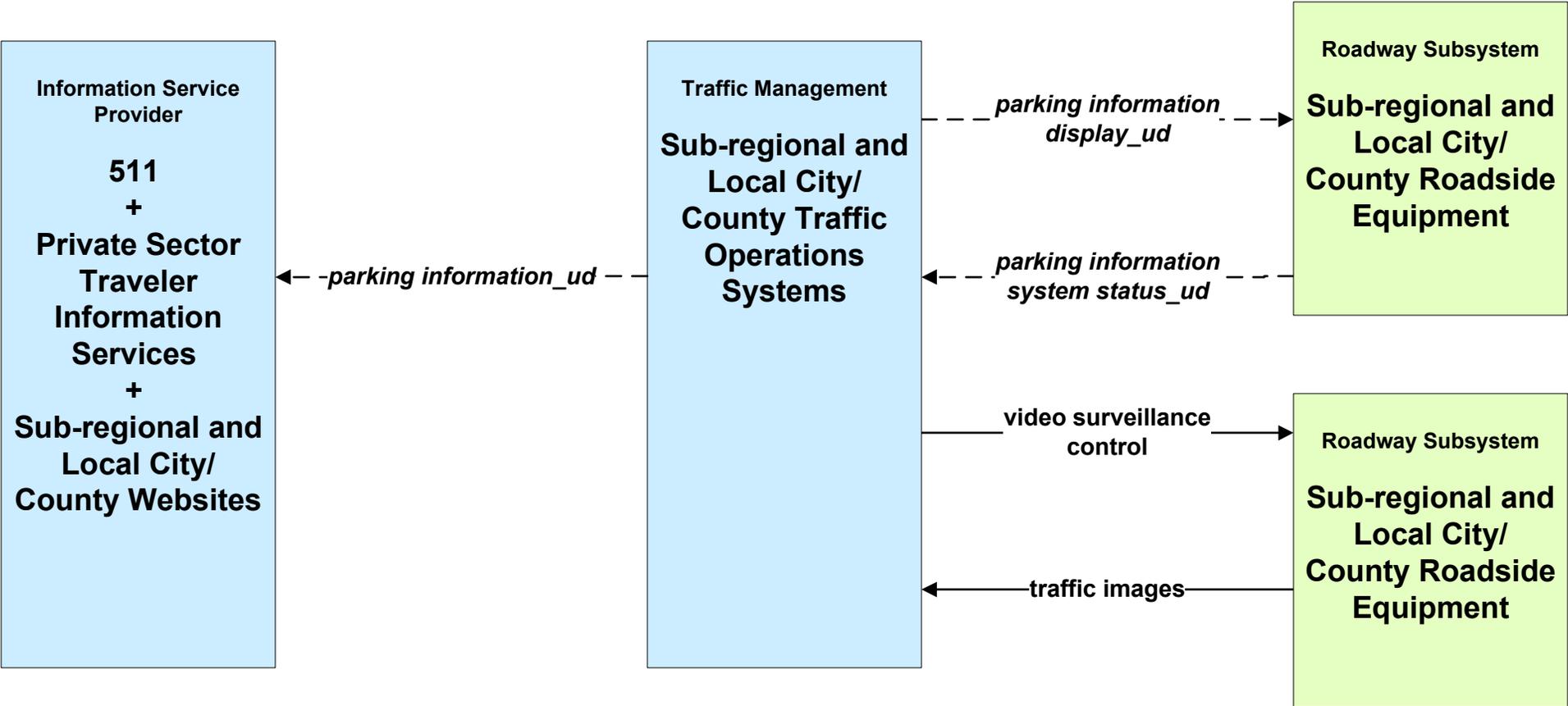
ATMS10 - Electronic Toll Collection Tolling System Operations



ATMS16 - Parking Facility Management San Jose Parking Guidance System



ATMS16 - Parking Facility Management Local City/County Systems



LEGEND

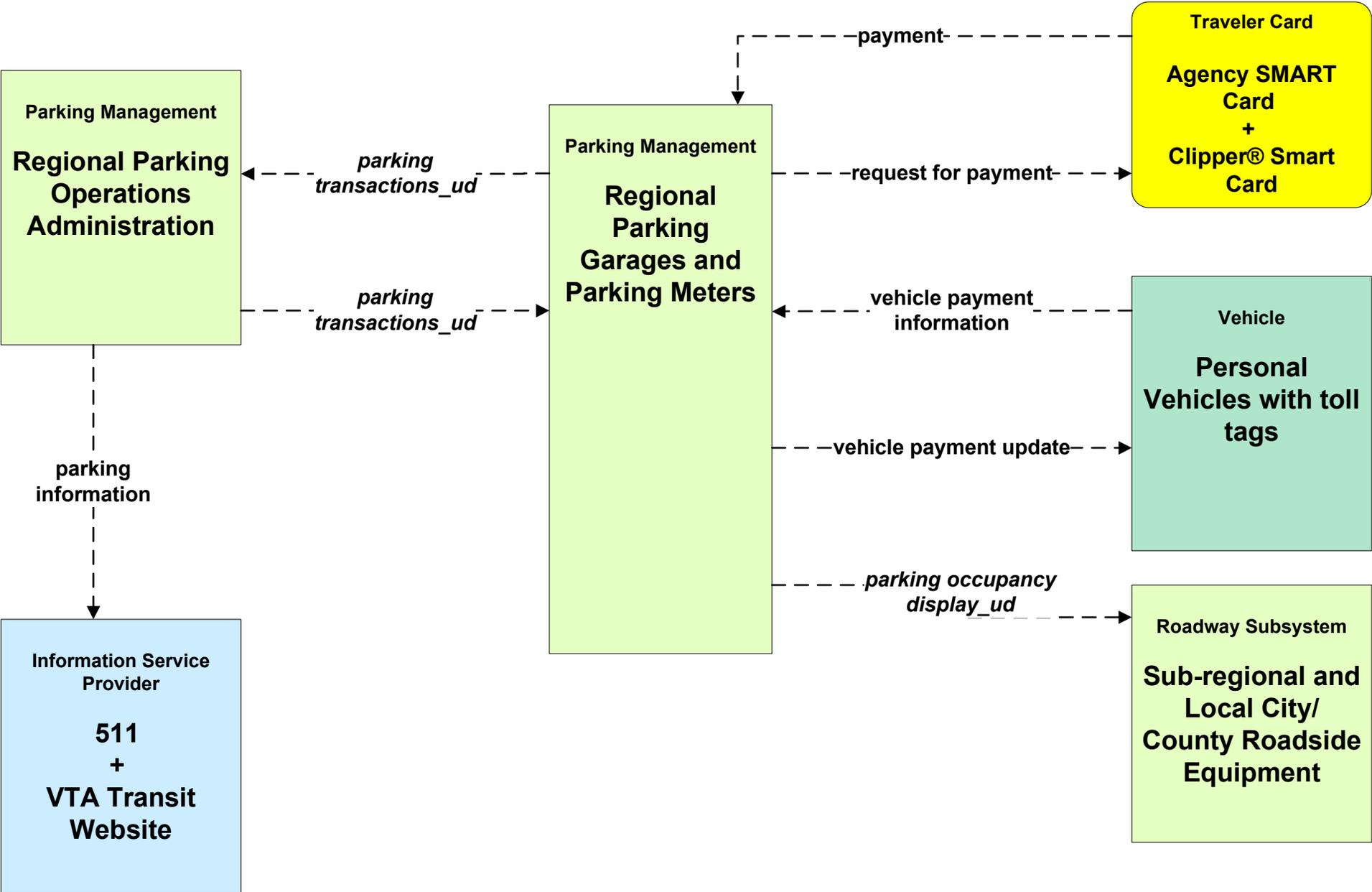
planned and future flow
 - - - - ->

existing flow
 ———>

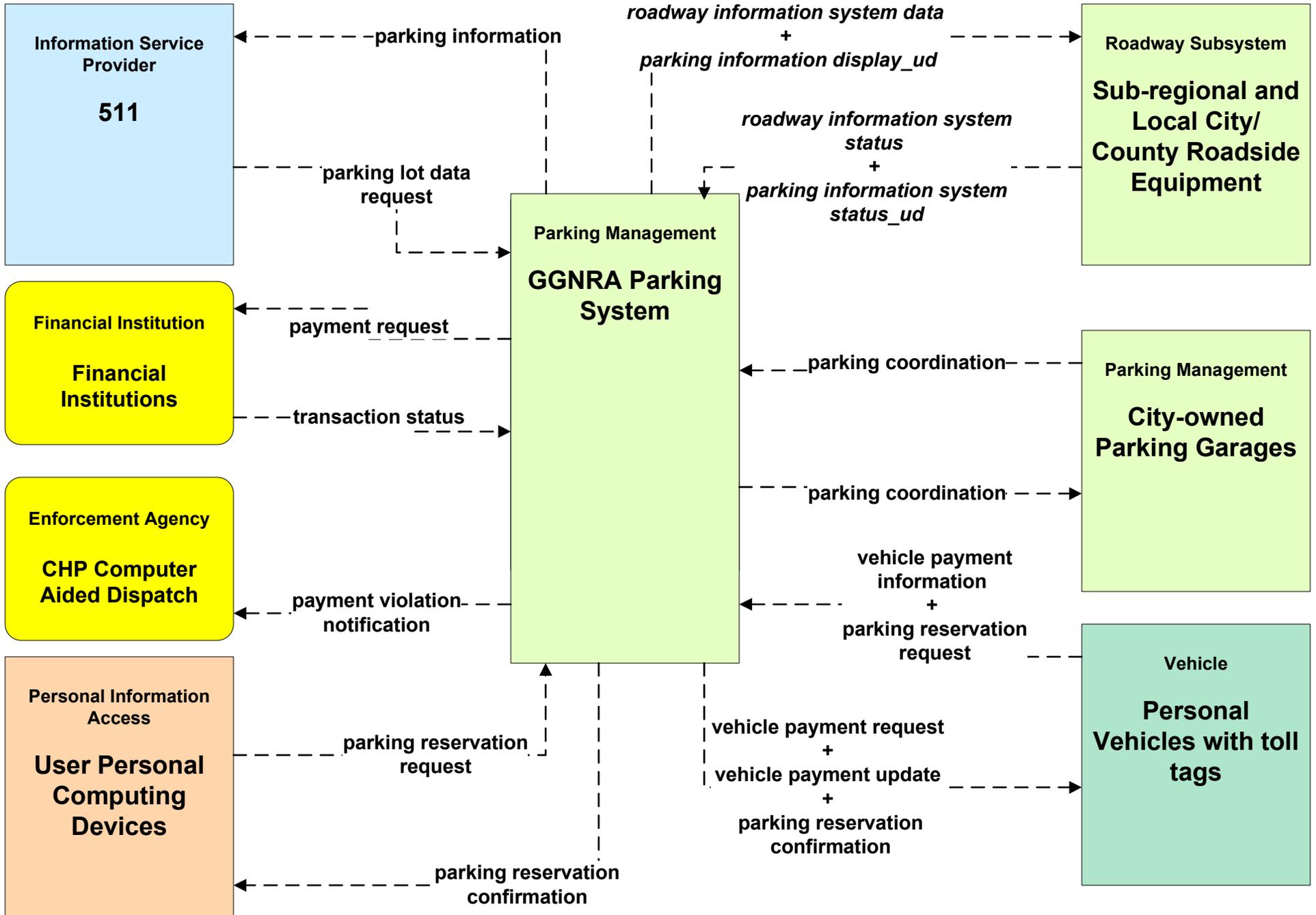
user defined flow
 ———>

NOTE: Electronic enforcement and parking management in downtown Gilroy.

**ATMS16 - Parking Facility Management
Local City/County Systems**

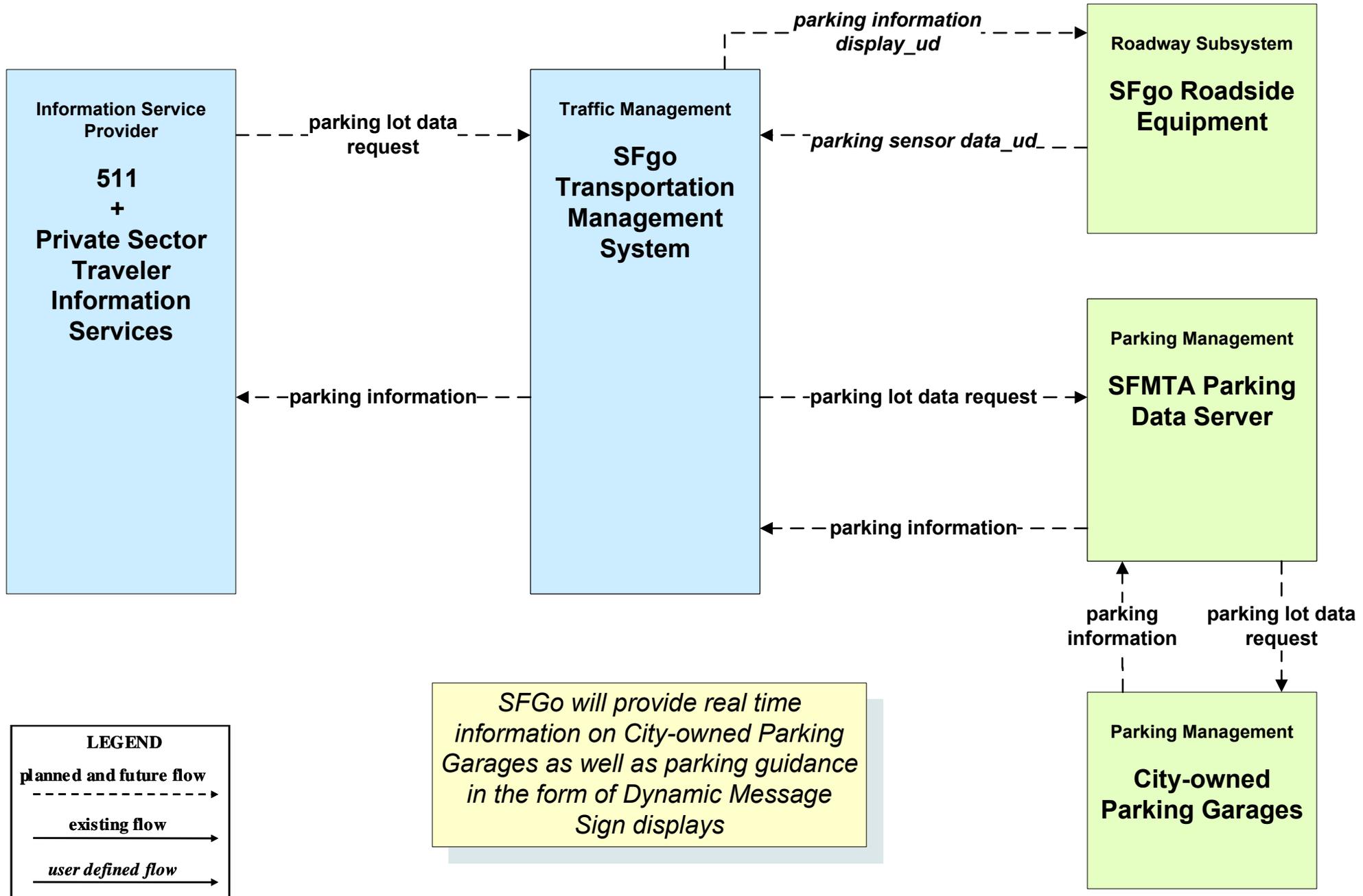


ATMS16 - Parking Facility Management GGNRA Parking System

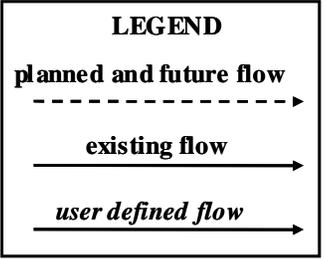
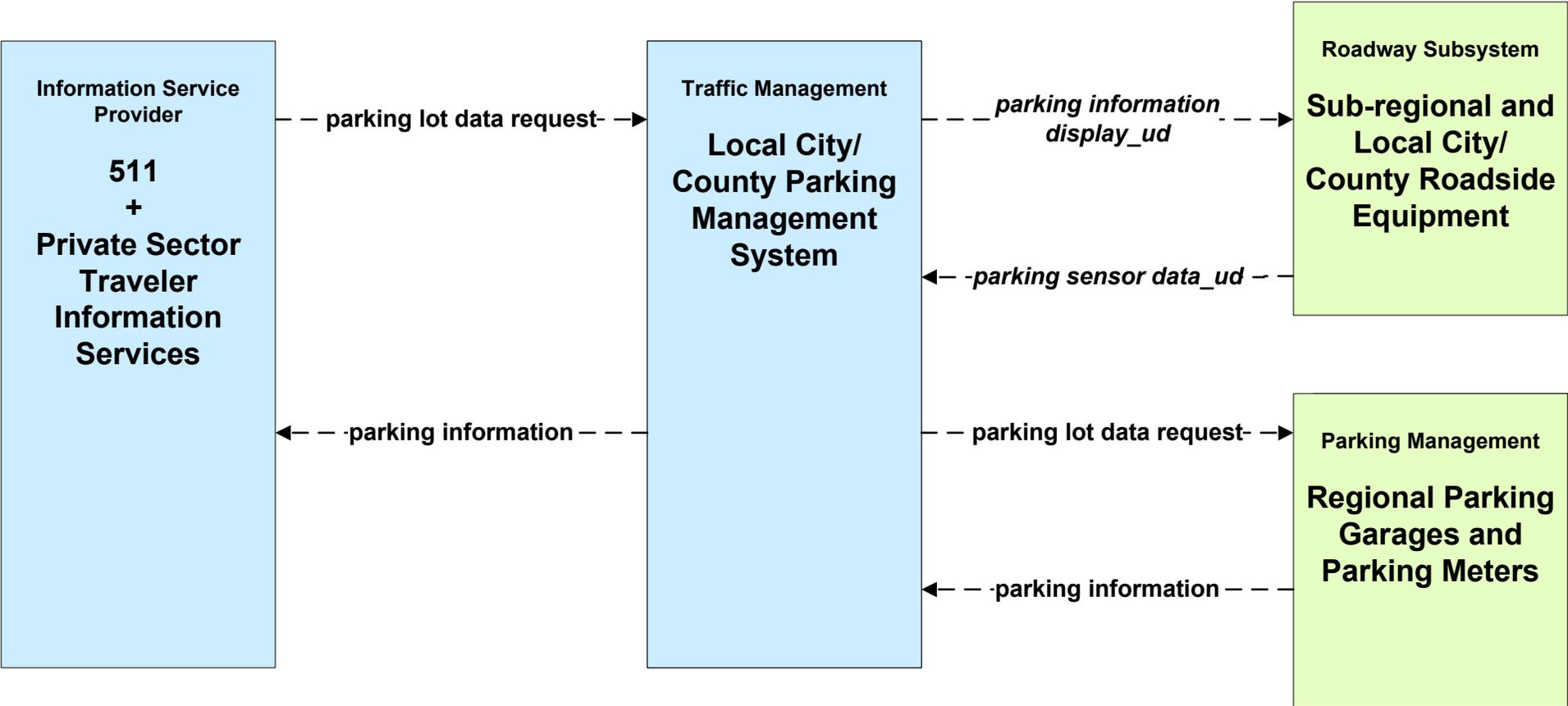


ATMS17 – Regional Parking Management

SFMTA Real Time Parking Information/ Parking Guidance

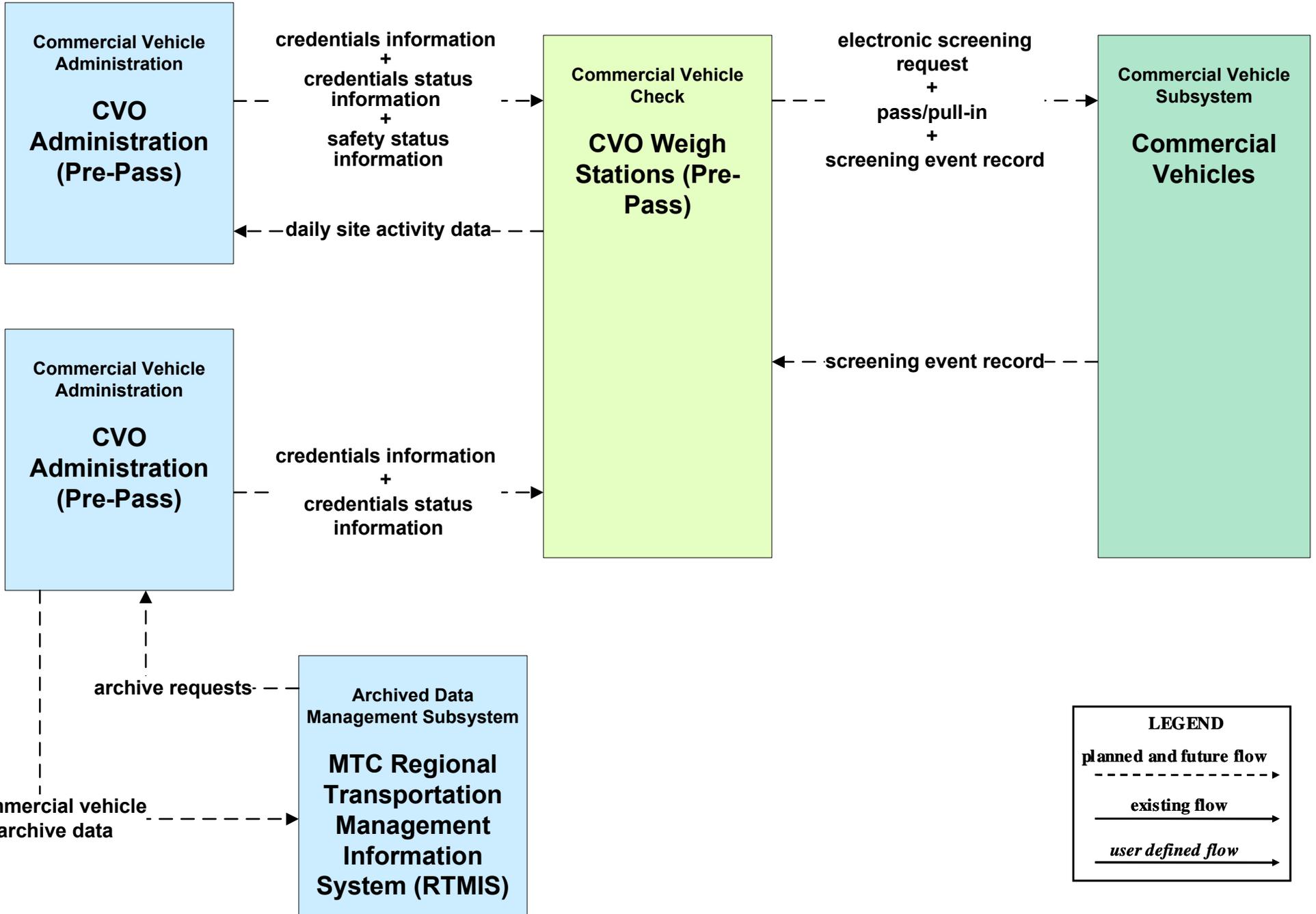


ATMS17 – Regional Parking Management
Local City/County Real Time Parking Information/ Parking Guidance

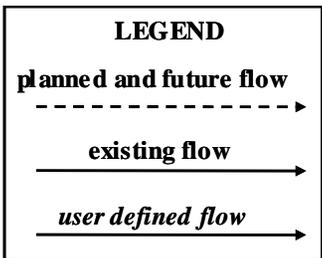
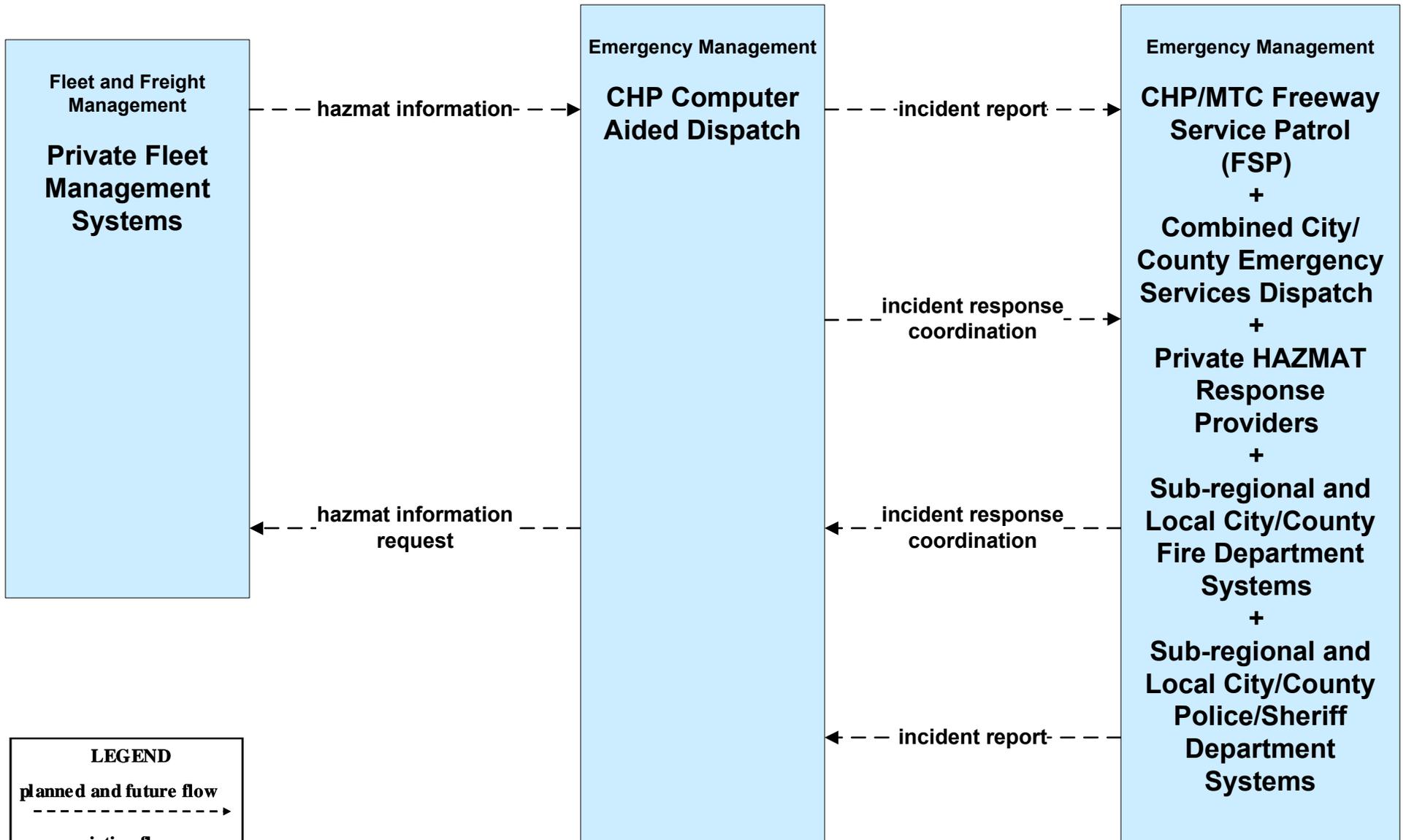


Provide real time information on Regional Parking Garages as well as parking guidance in the form of Dynamic Message Sign displays

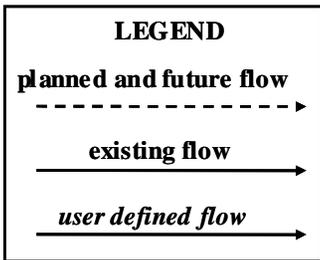
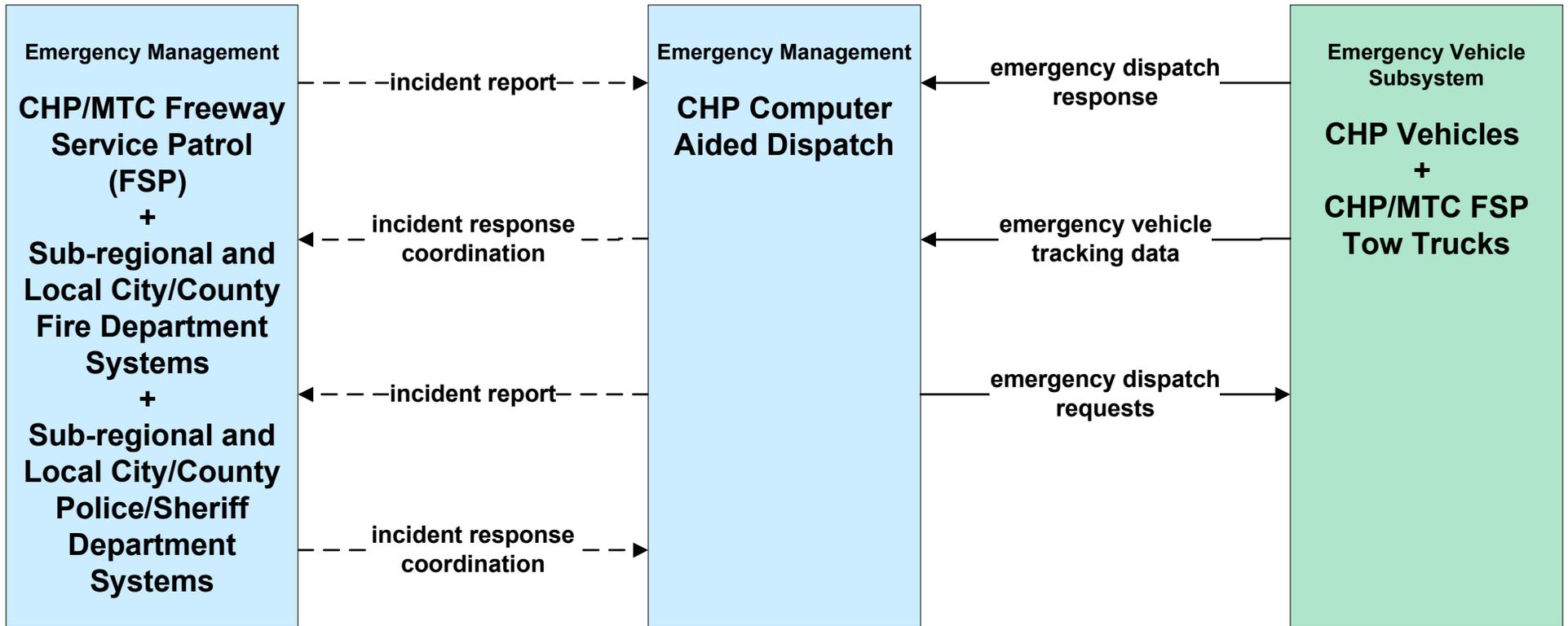
CVO03 - Electronic Clearance Pre-Pass Stations



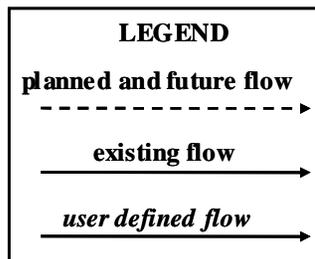
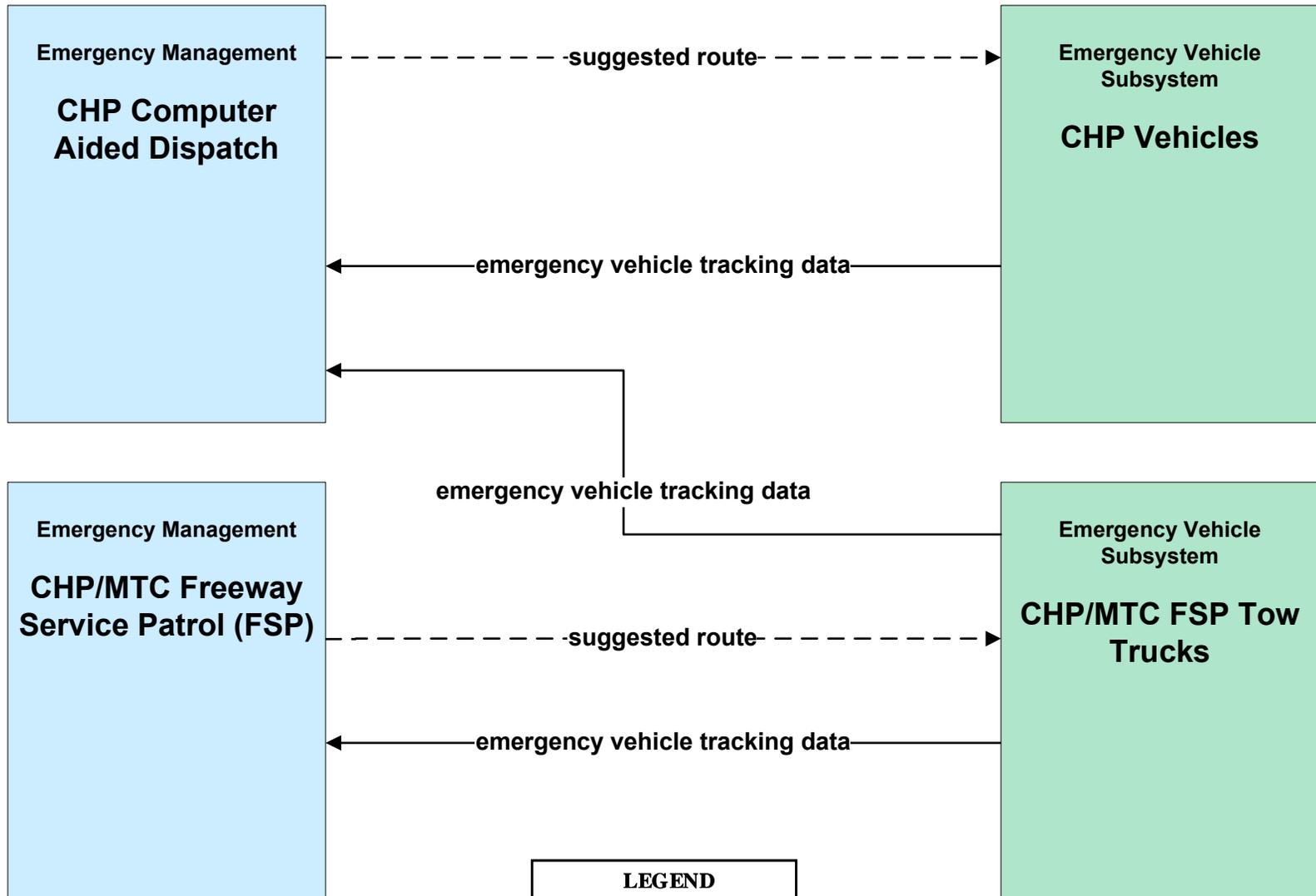
**CVO10 - HAZMAT Management
Commercial Vehicles**



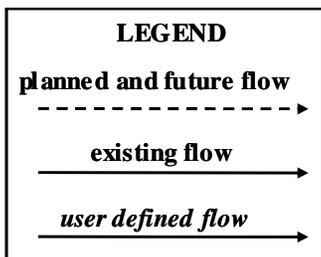
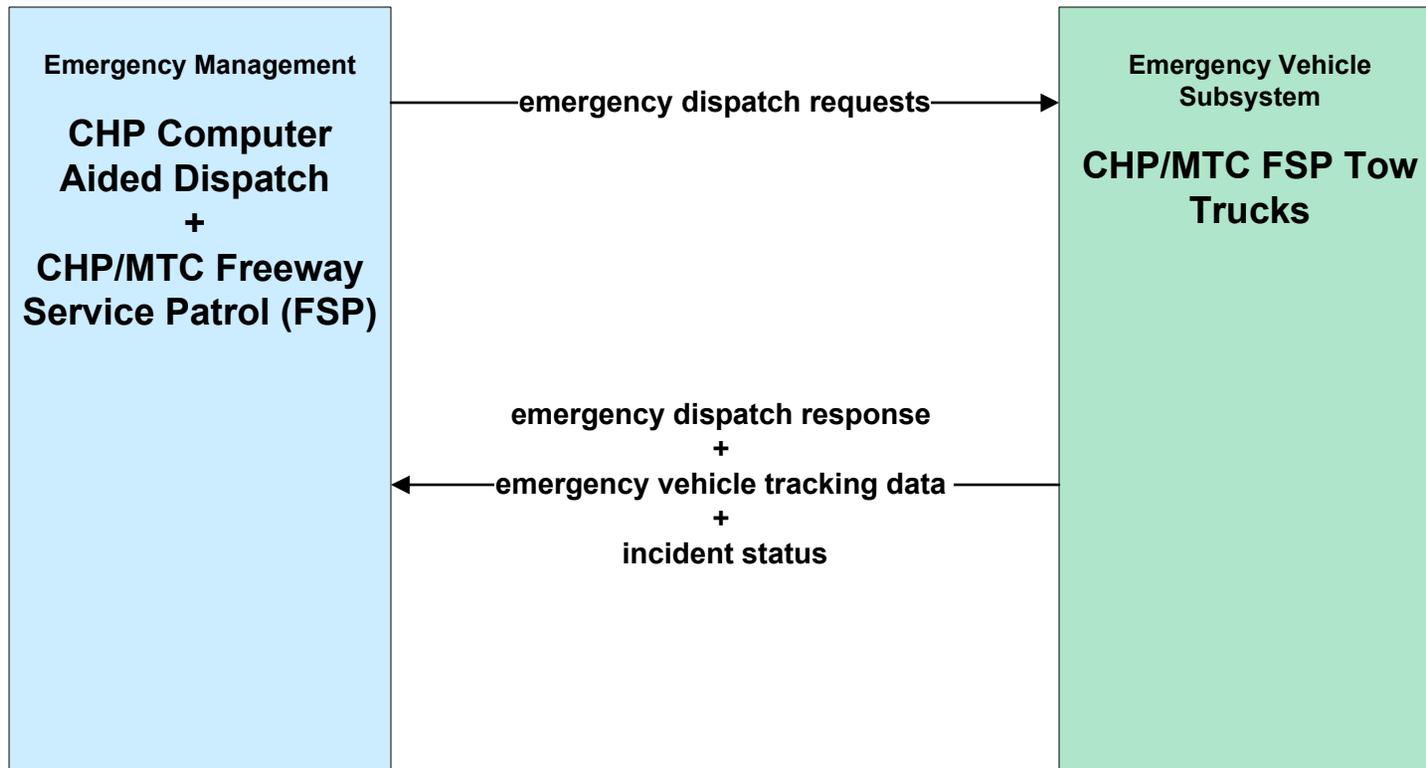
EM01 - Emergency Call-Taking and Dispatch CHP



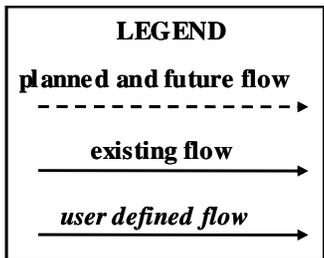
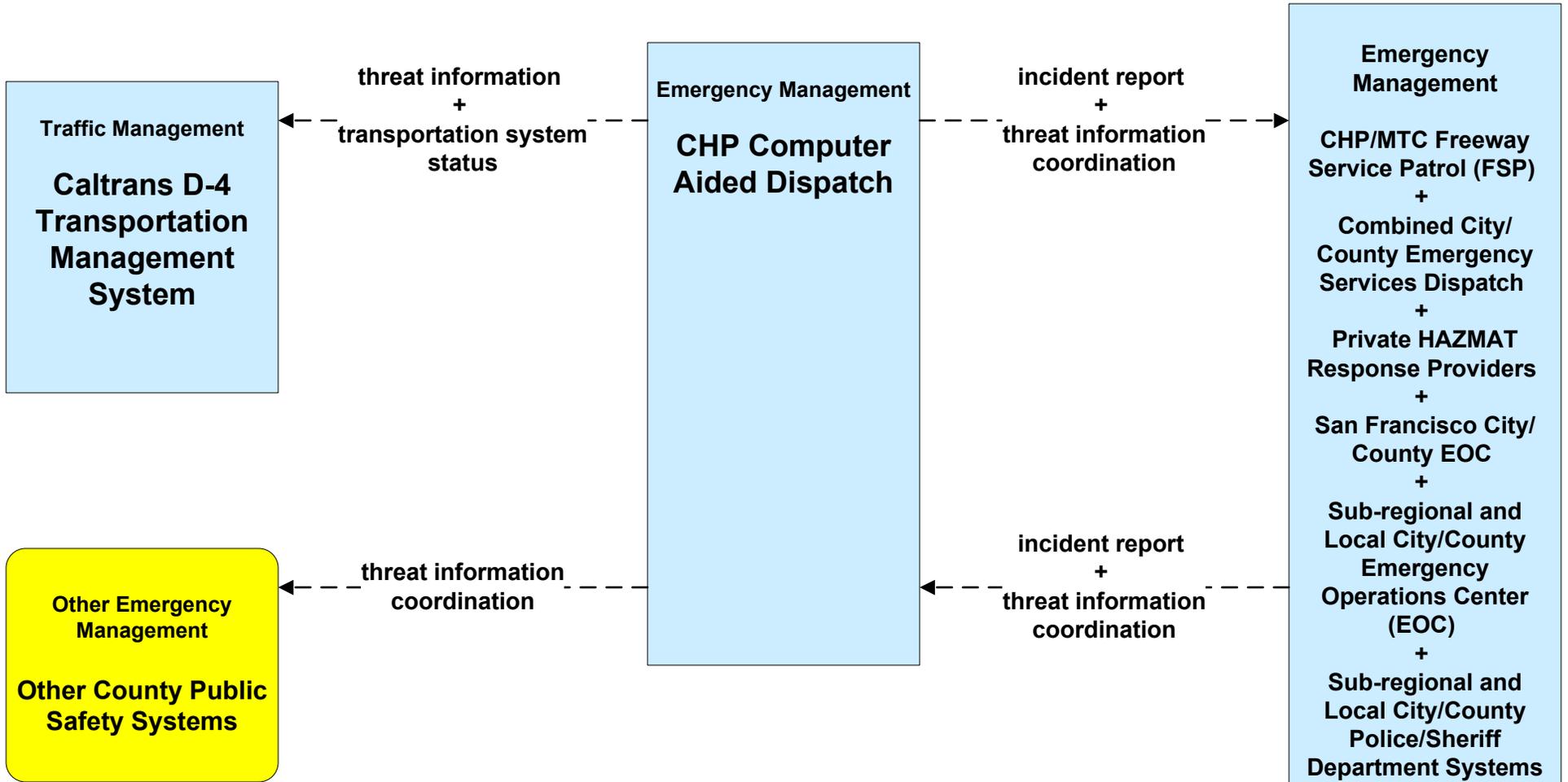
**EM02 - Emergency Routing
CHP / Freeway Service Patrol (FSP)**



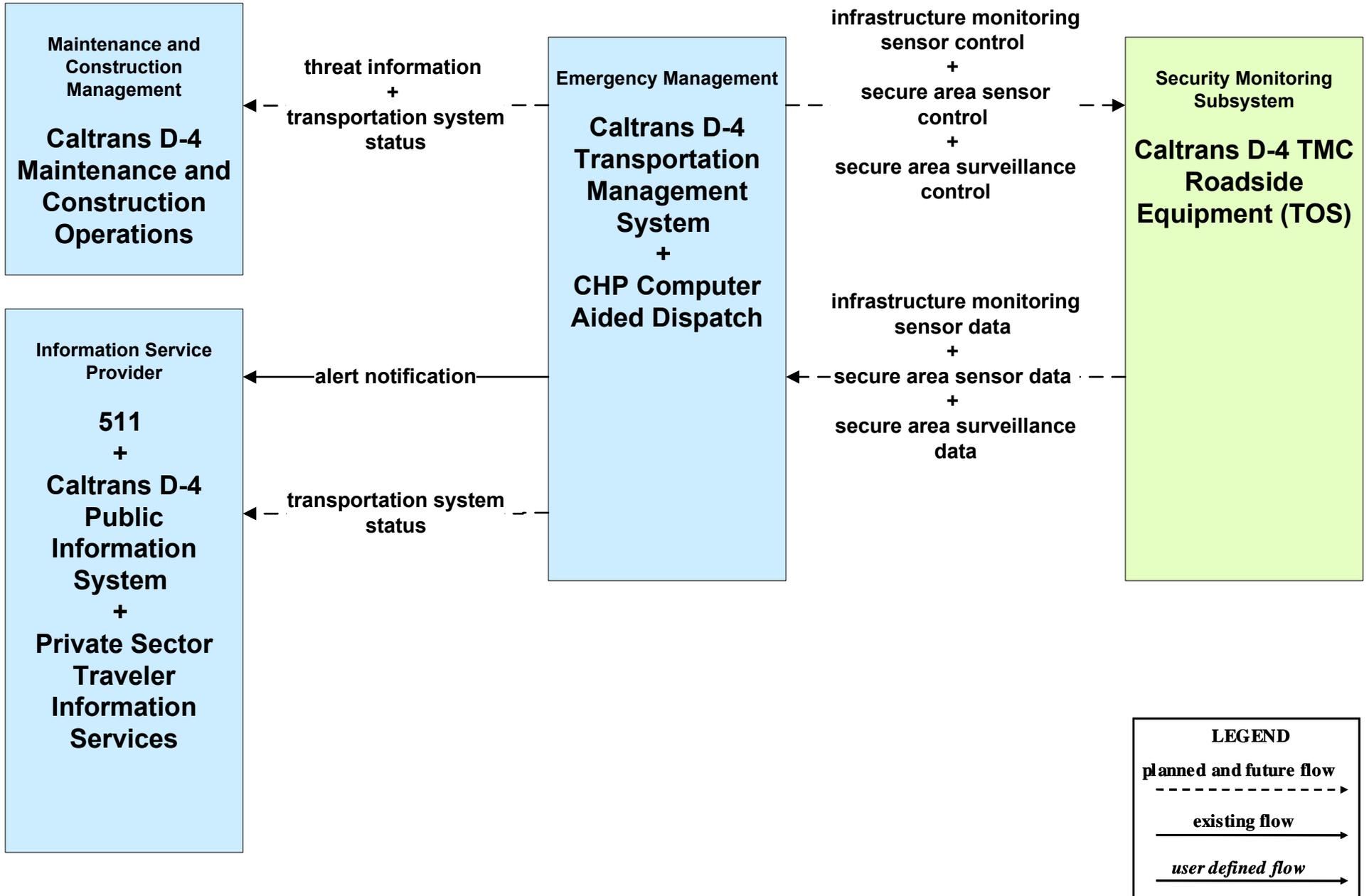
**EM04 - Roadway Service Patrols
CHP/MTC Freeway Service Patrols (FSP)**



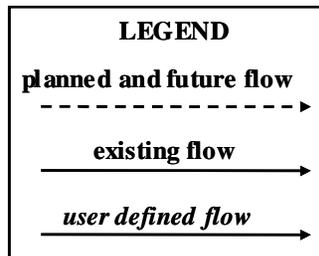
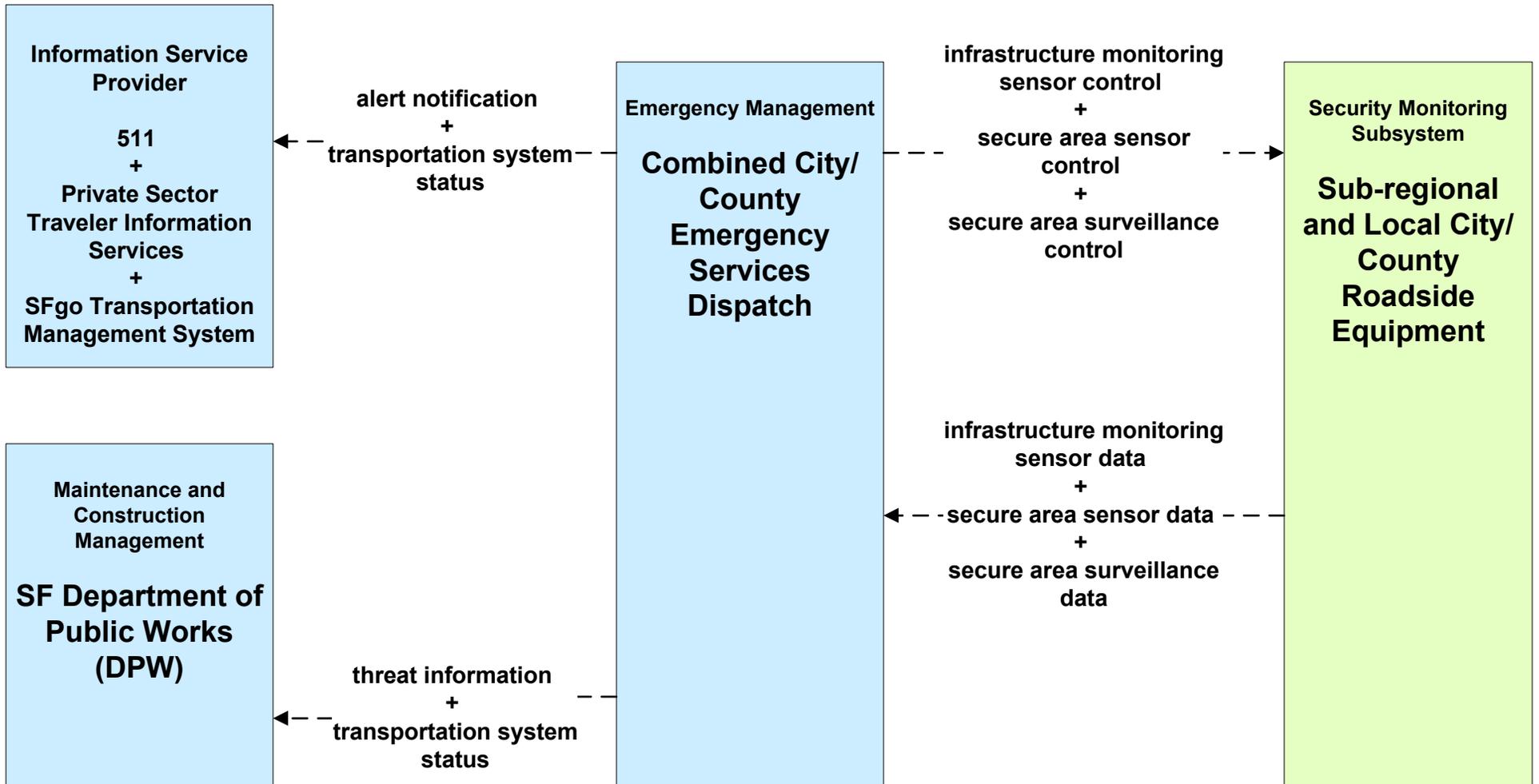
**EM05 - Transportation Infrastructure Protection
CHP – Caltrans (1 of 2)**



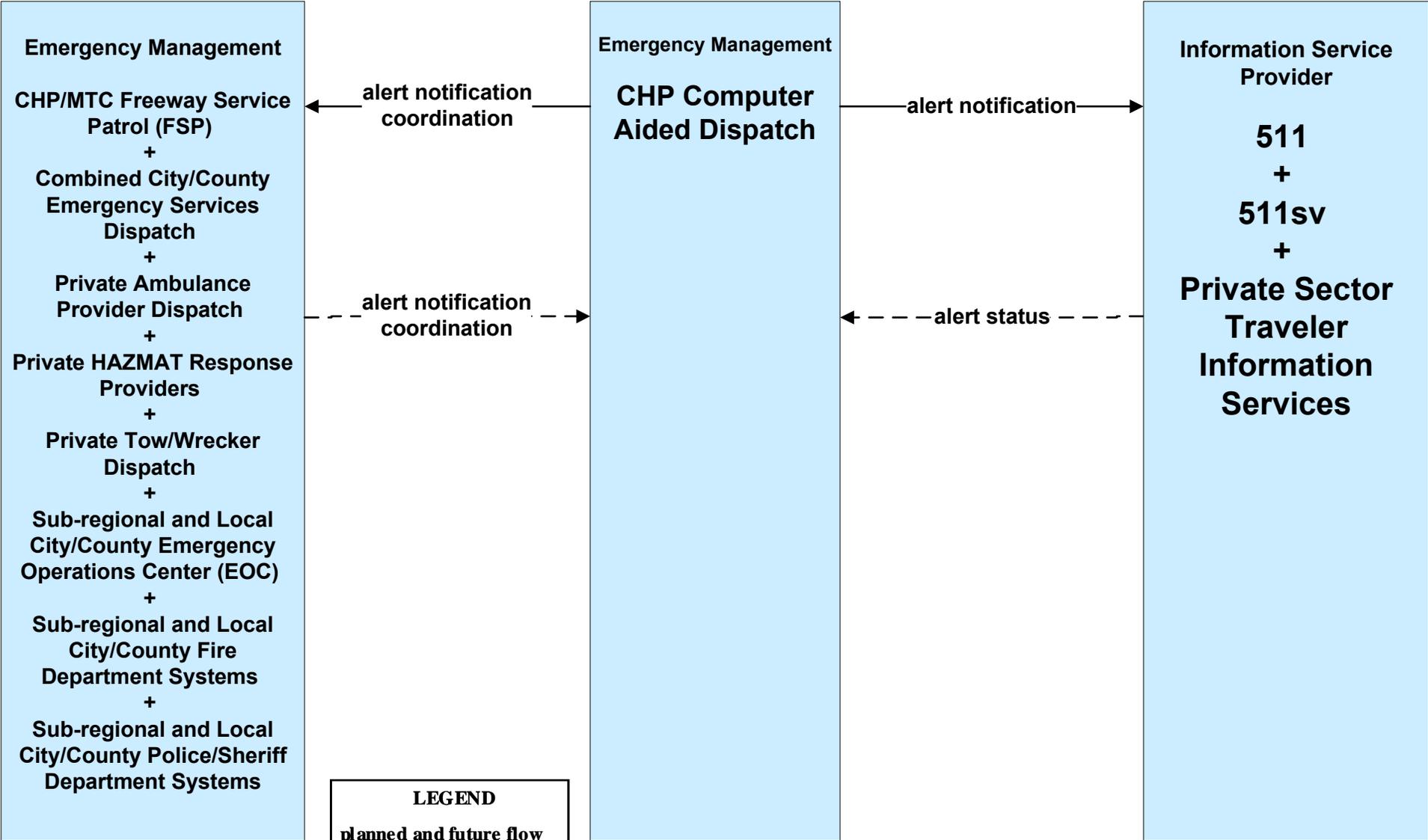
**EM05 - Transportation Infrastructure Protection
CHP – Caltrans (2 of 2)**



**EM05 - Transportation Infrastructure Protection
City of San Francisco (2 of 2)**



**EM06 - Wide Area Alert
Amber Alert (1 of 2)**



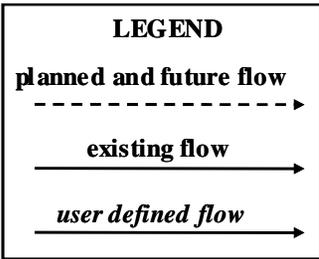
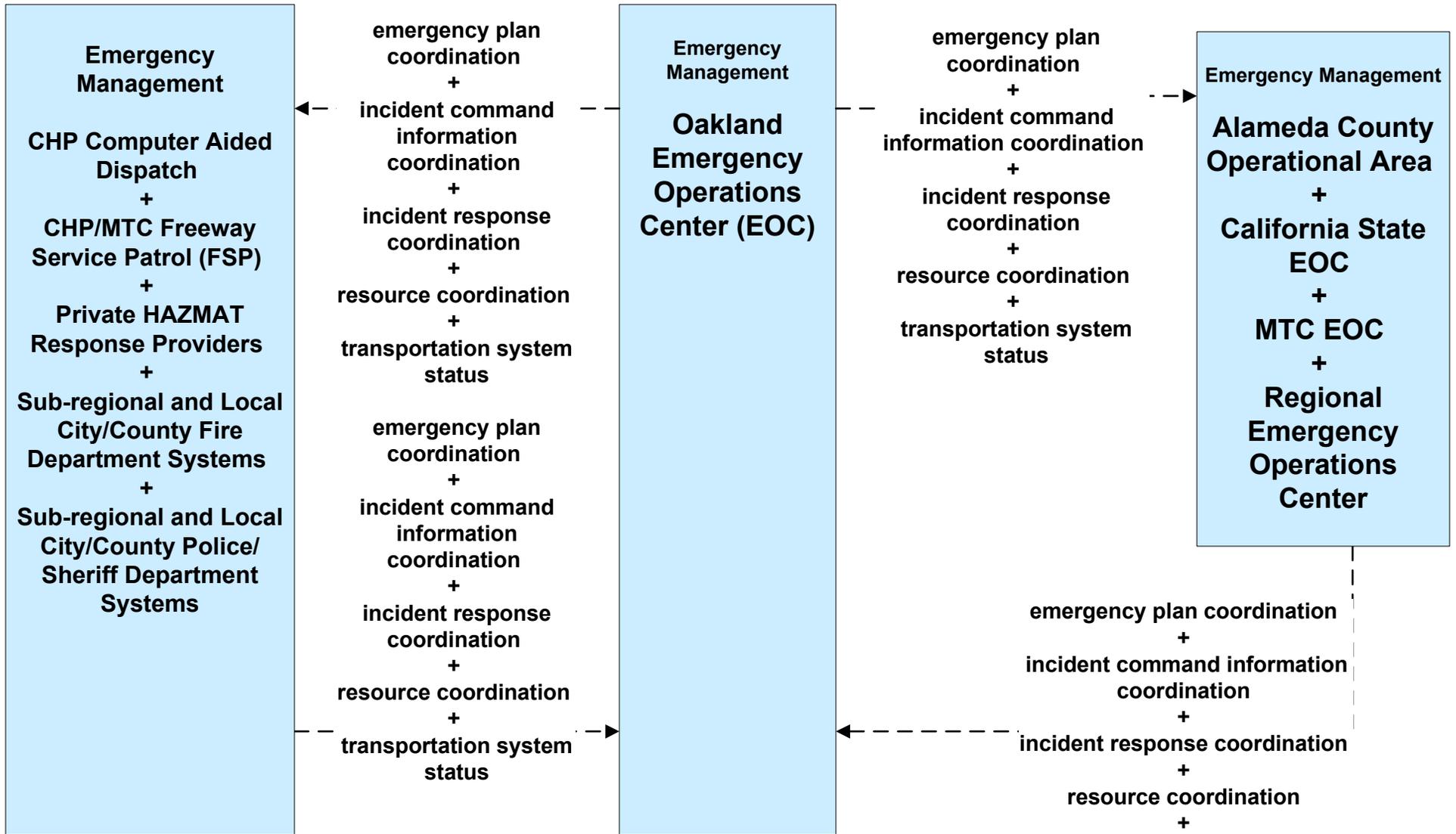
LEGEND

planned and future flow → (dashed line)

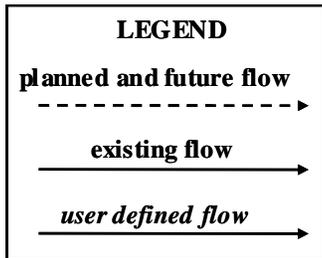
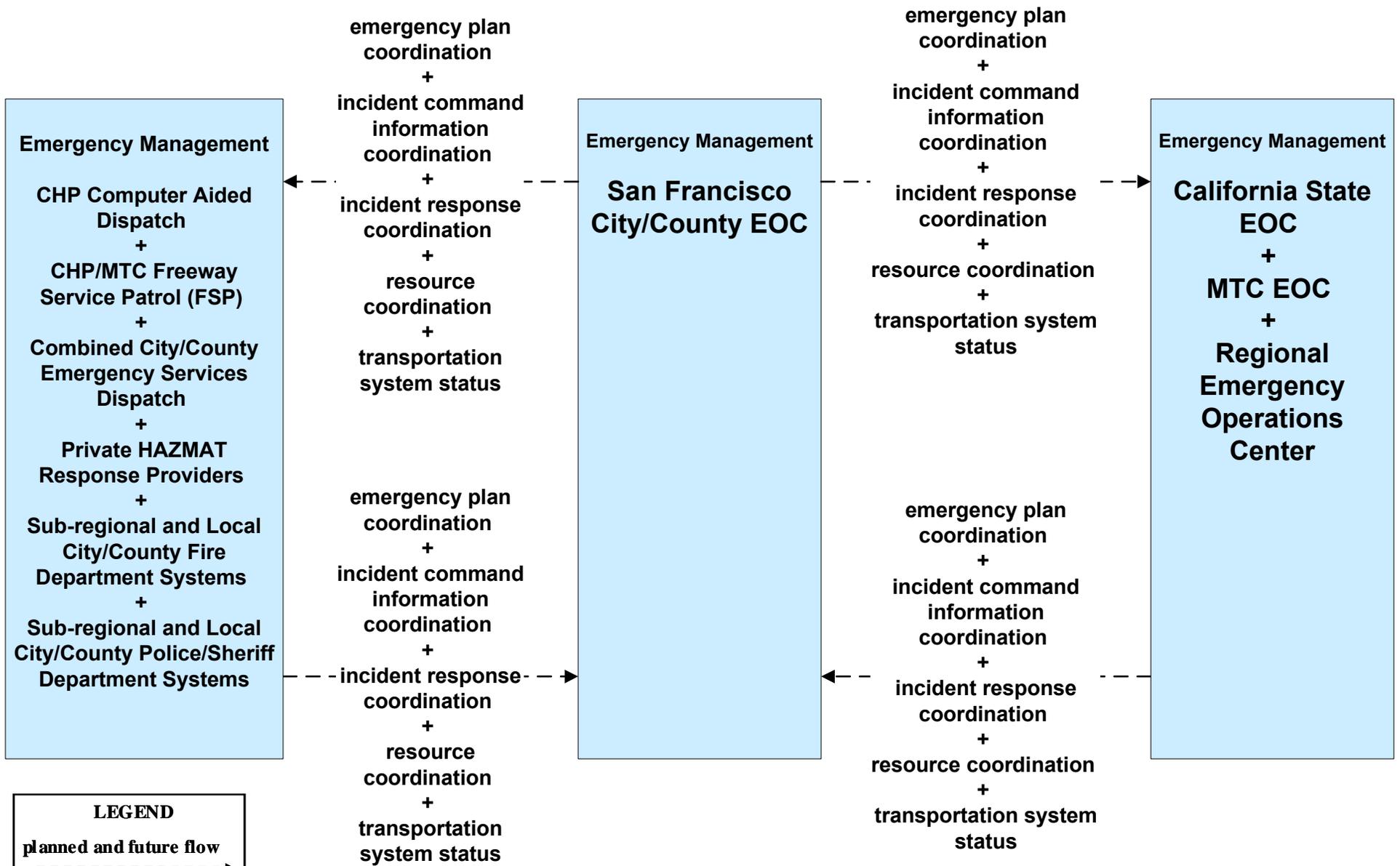
existing flow → (solid line)

user defined flow → (solid line)

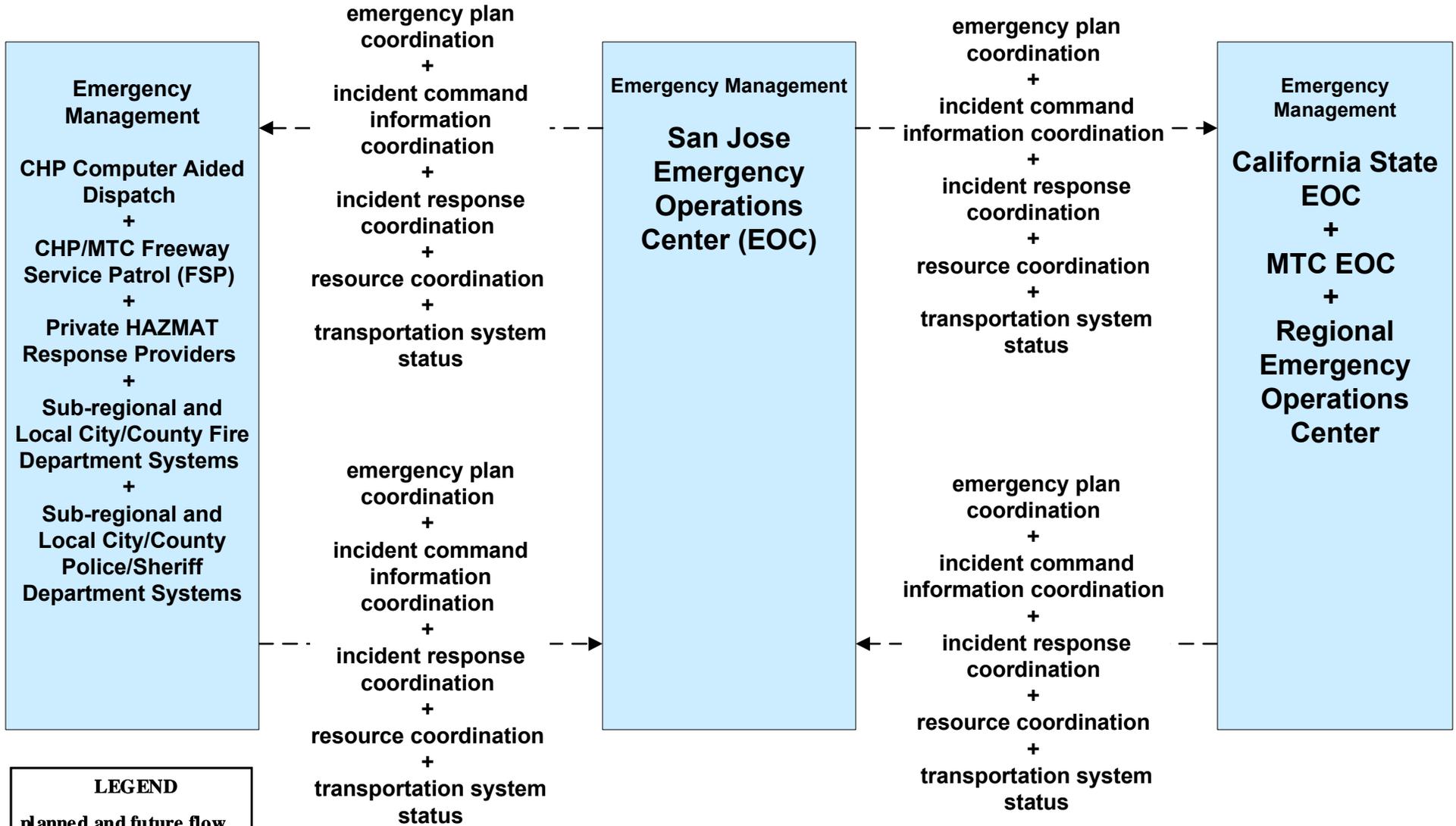
EM08 - Disaster Response and Recovery Oakland EOC (1 of 2)



**EM08 - Disaster Response and Recovery
San Francisco City/County EOC (1 of 2)**



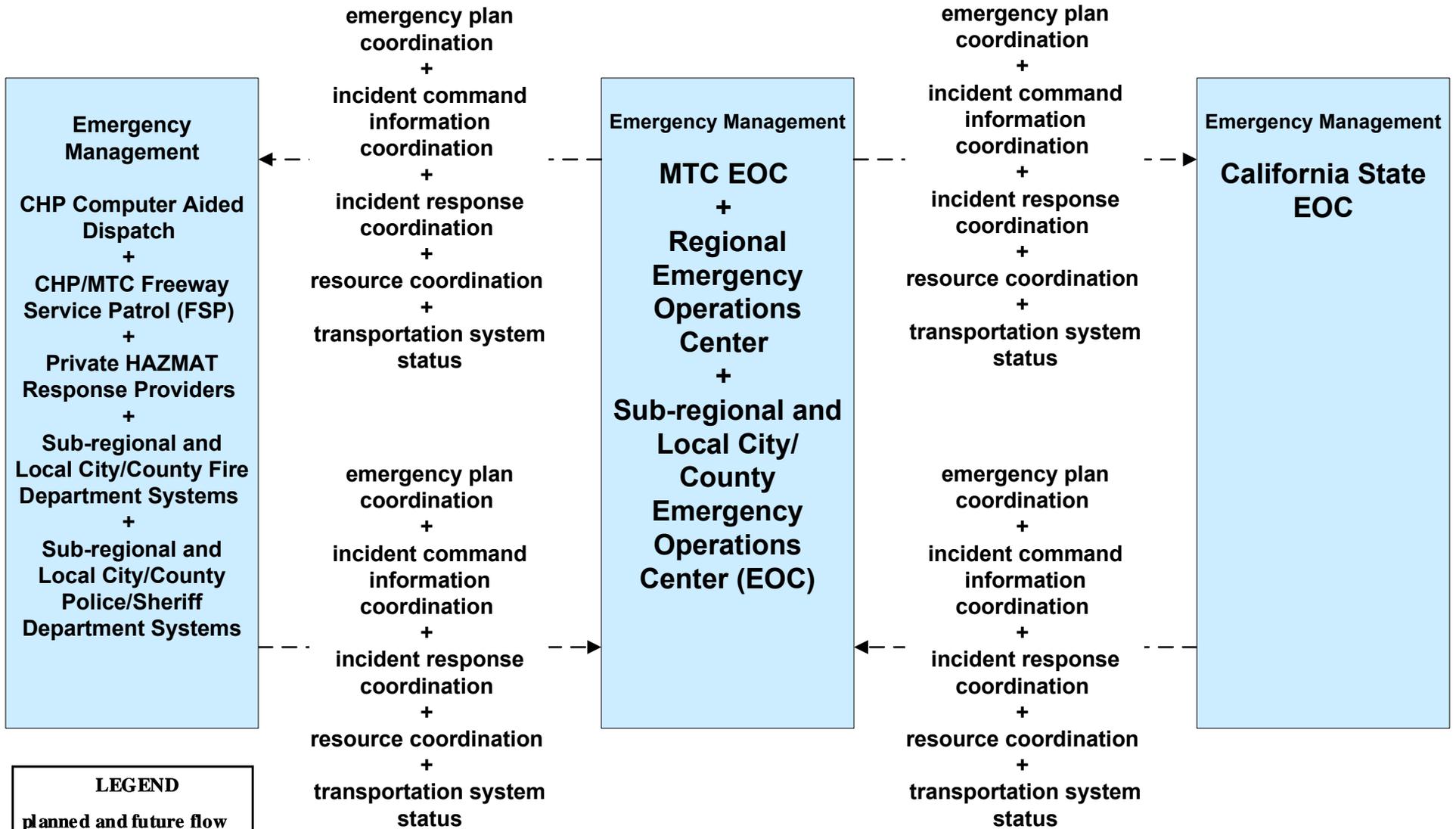
**EM08 - Disaster Response and Recovery
San Jose EOC (1 of 2)**



LEGEND

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

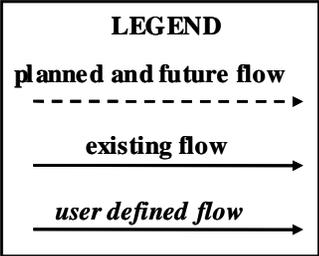
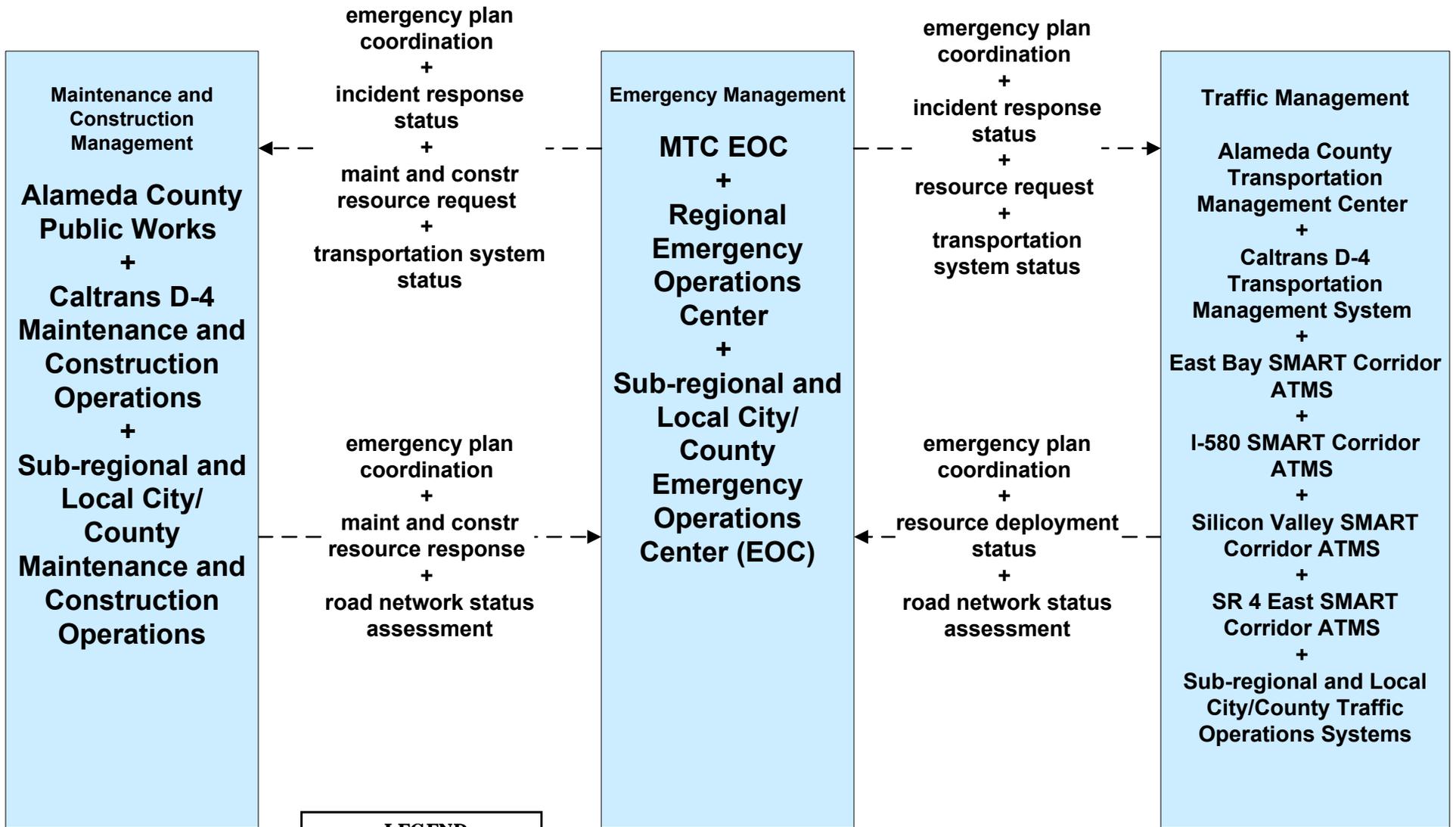
**EM08 - Disaster Response and Recovery
Local City/County/Regional EOC (1 of 2)**



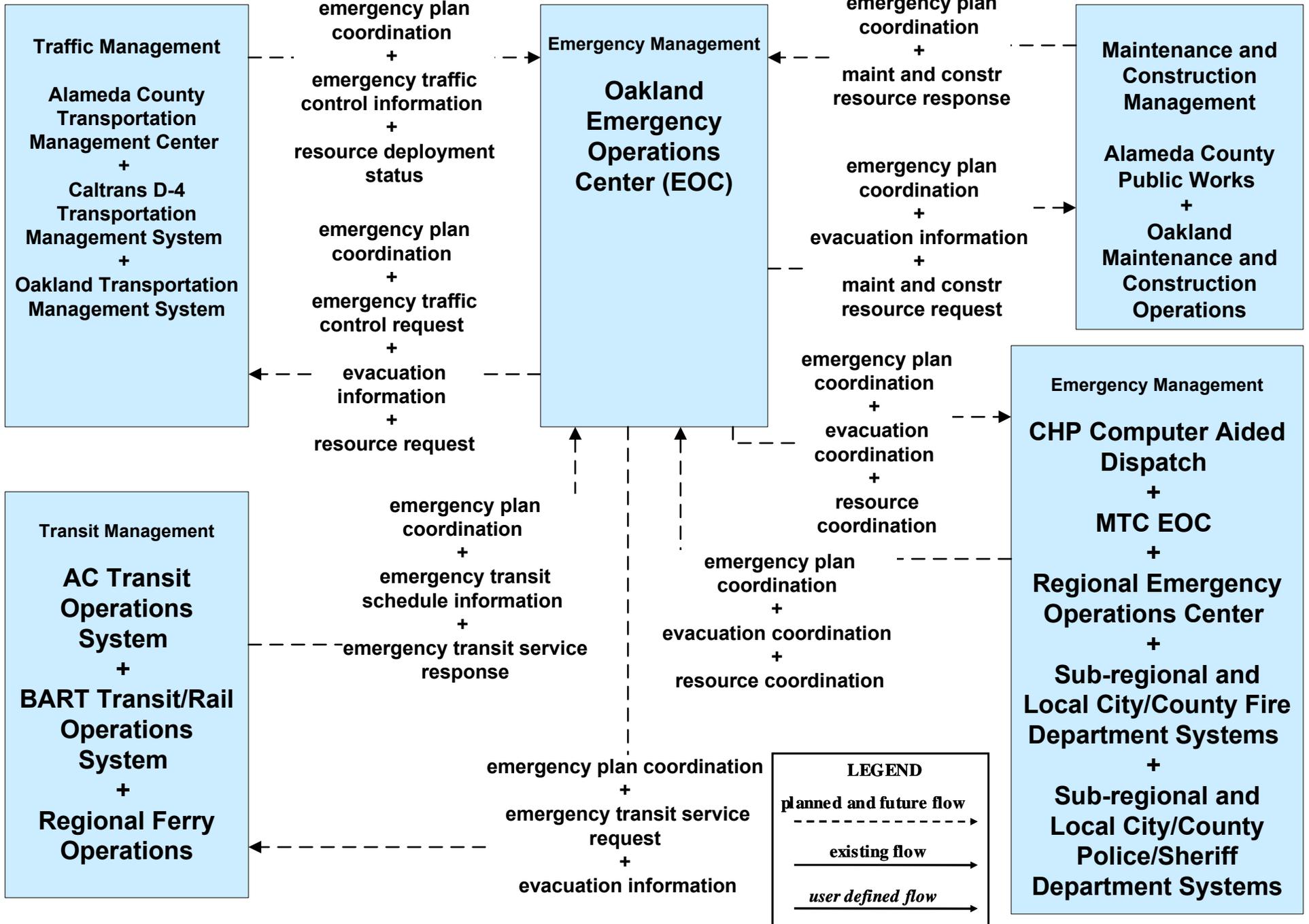
LEGEND

- planned and future flow (dashed arrow)
- existing flow (solid arrow)
- user defined flow (solid arrow)

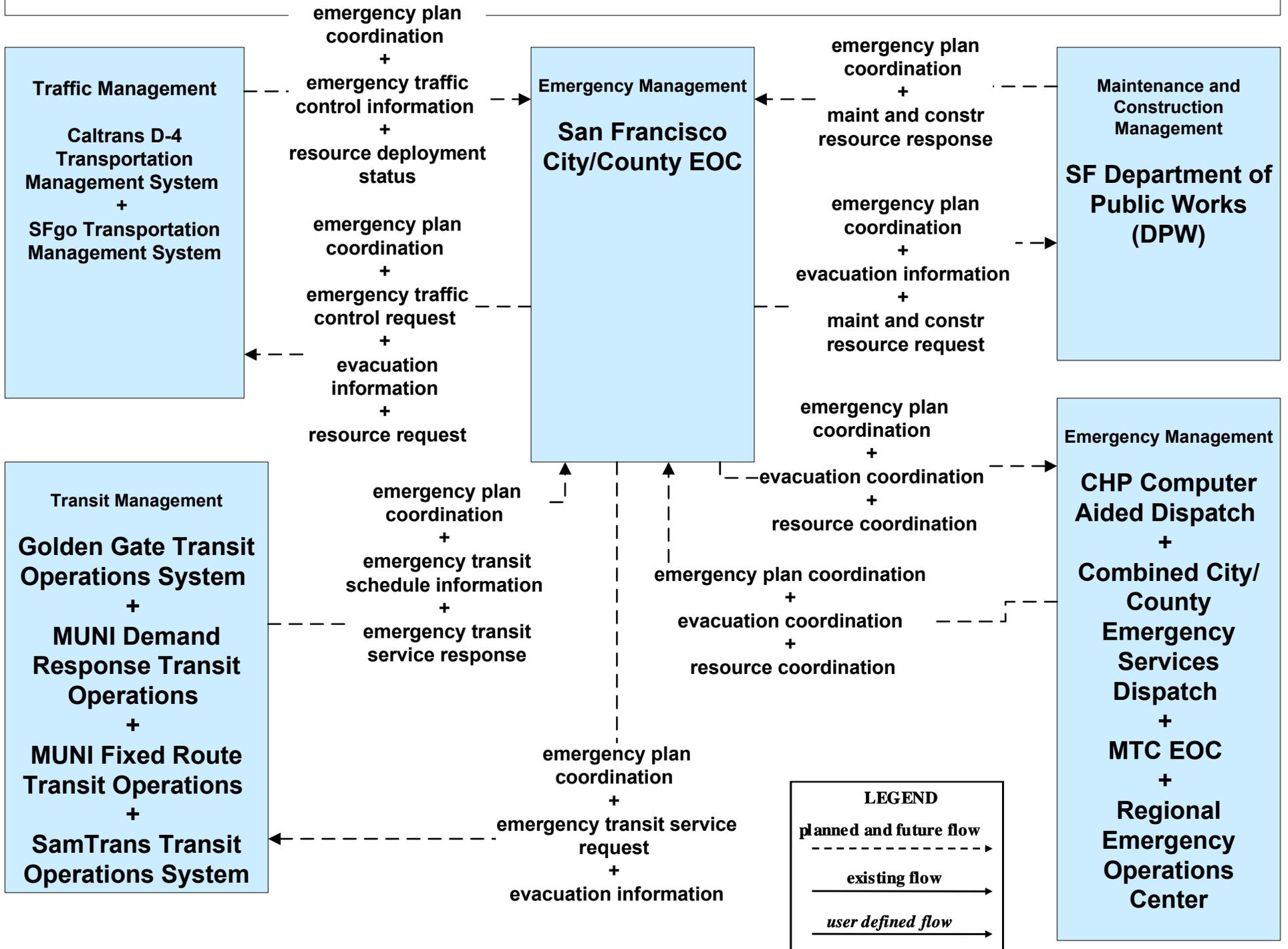
**EM08 - Disaster Response and Recovery
Local City/County/Regional EOC (2 of 2)**



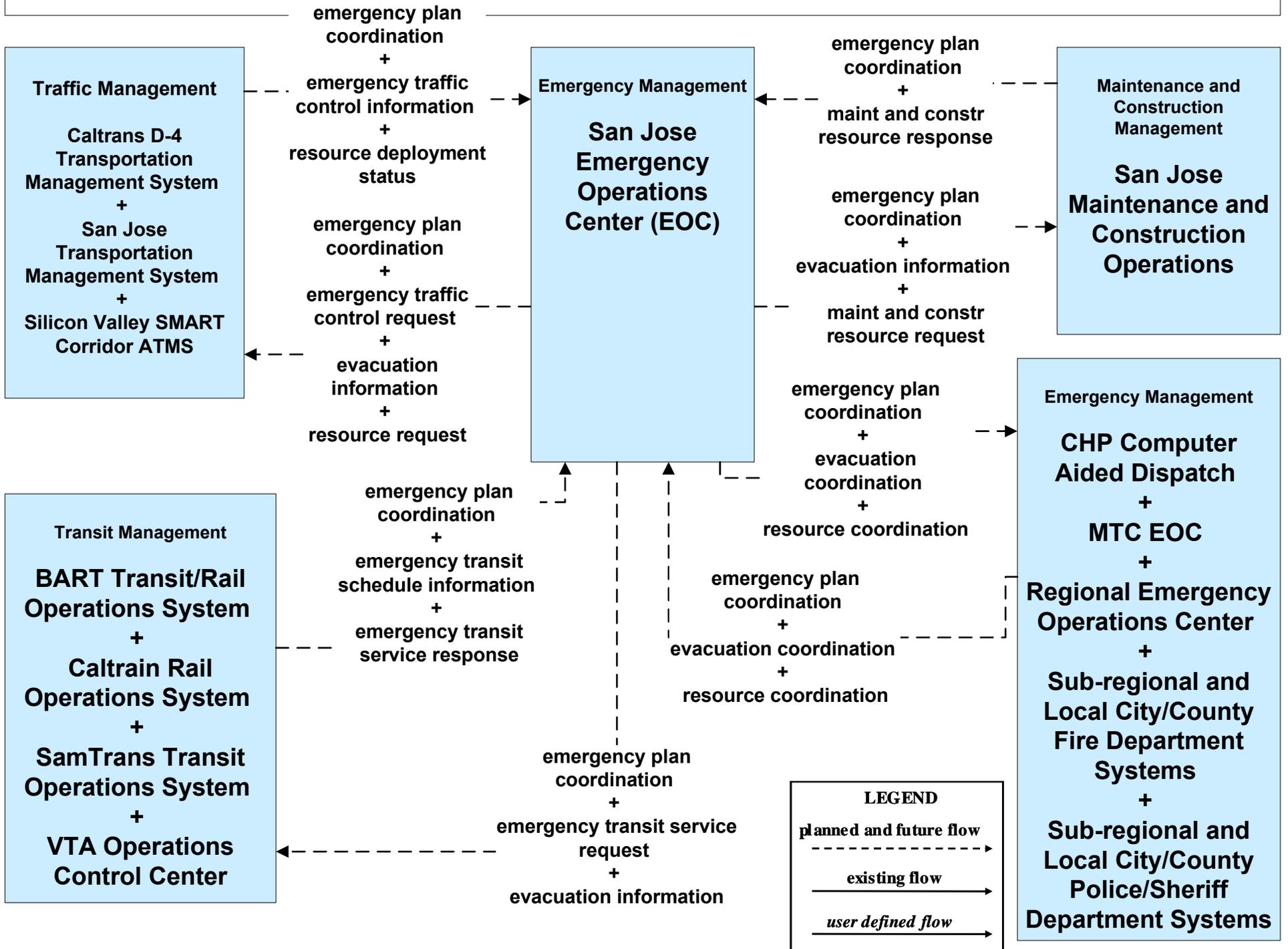
EM09 - Evacuation and Reentry Management Oakland EOC



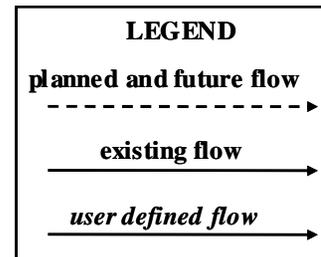
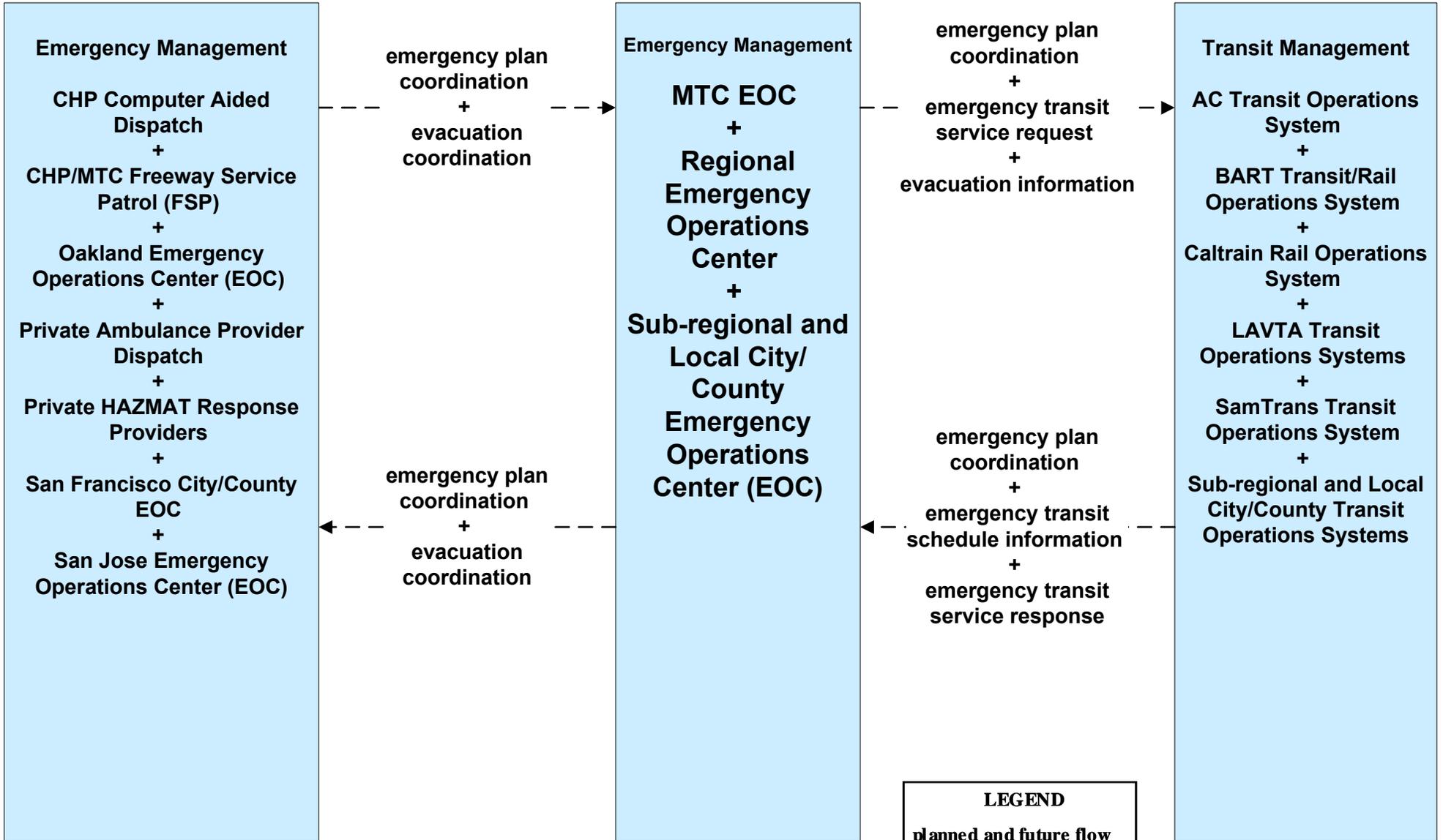
EM09 - Evacuation and Reentry Management San Francisco City/County EOC



EM09 - Evacuation and Reentry Management San Jose EOC

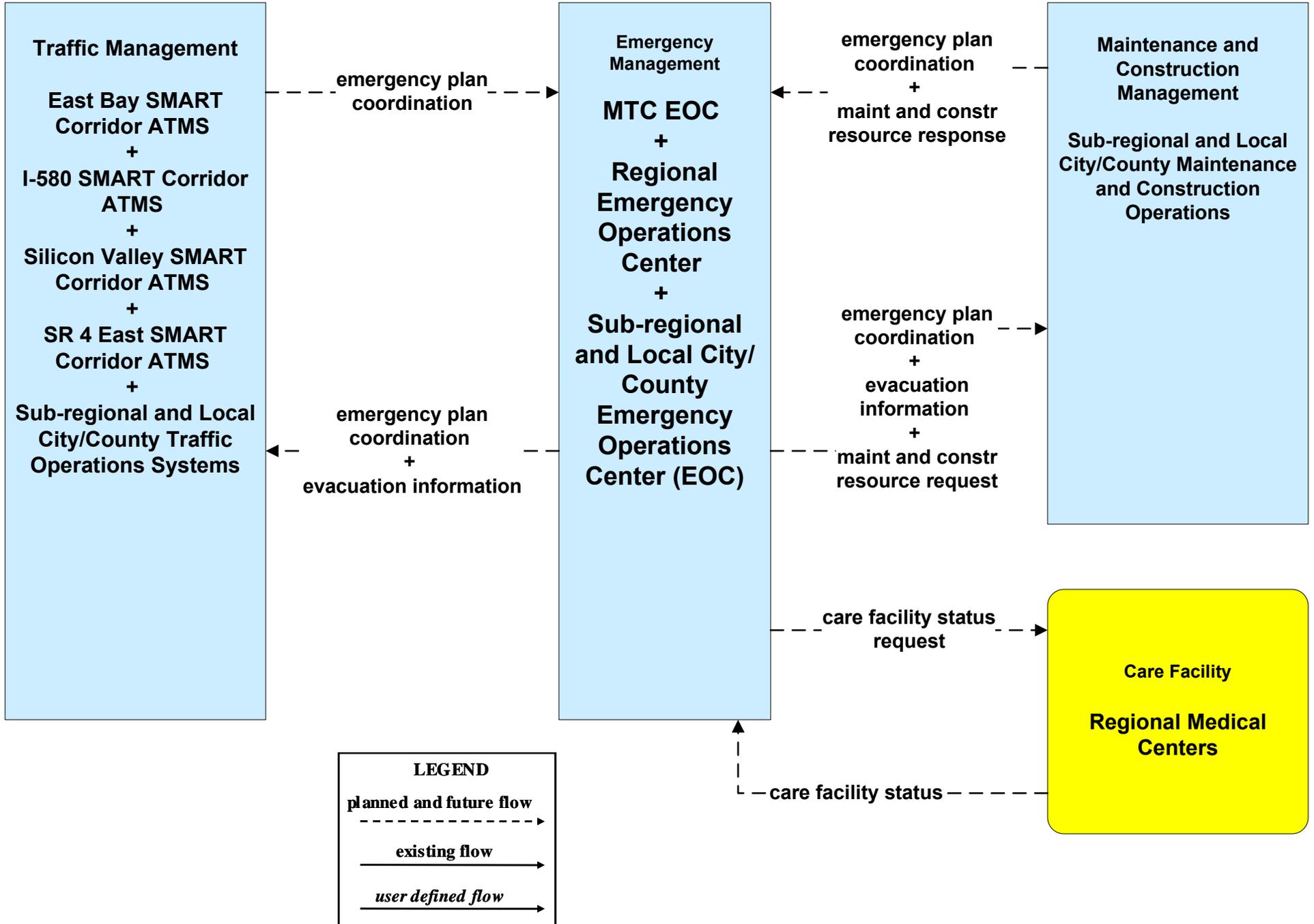


**EM09 - Evacuation and Reentry Management
Local City/County/Regional EOC (1 of 2)**

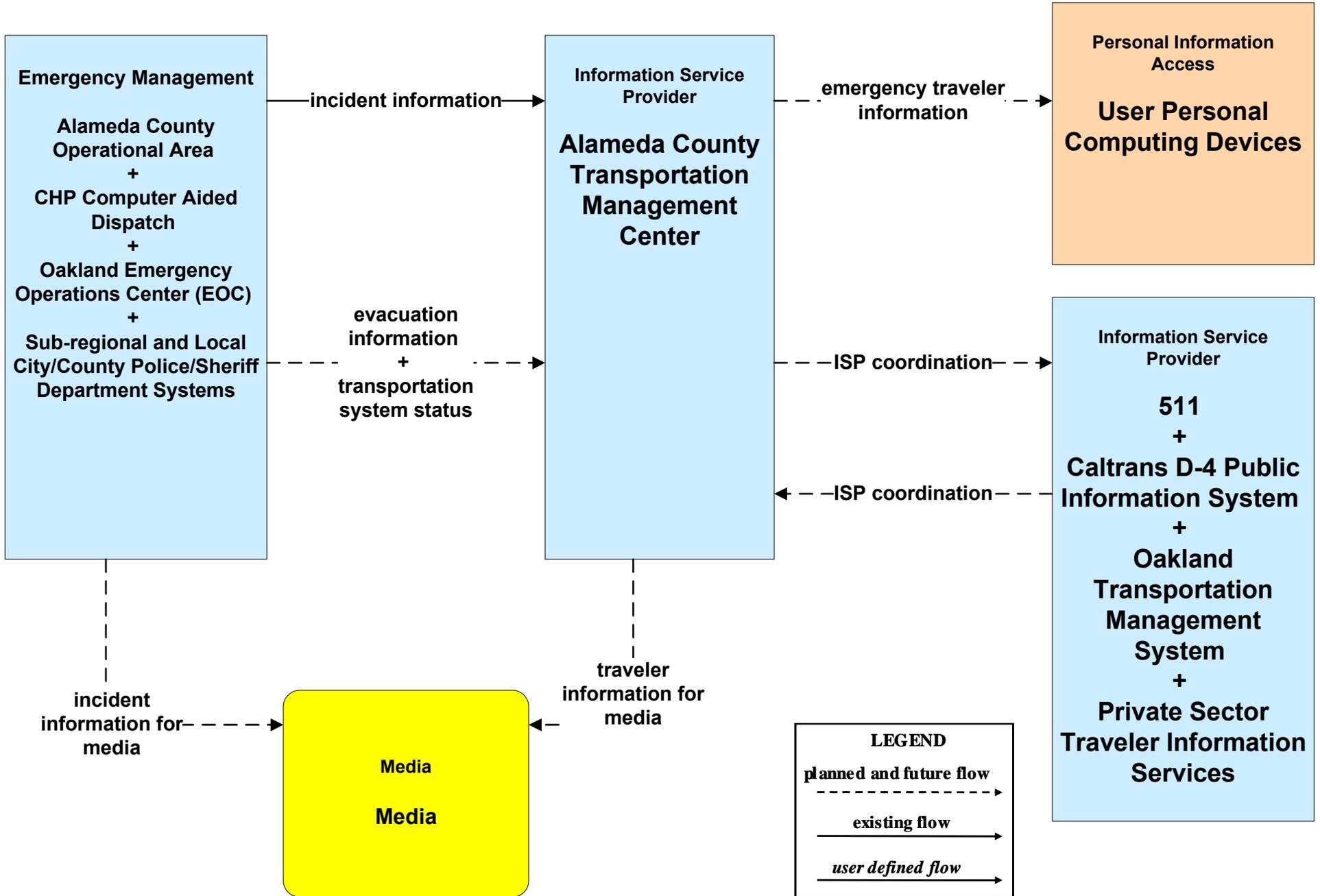


EM09 - Evacuation and Reentry Management

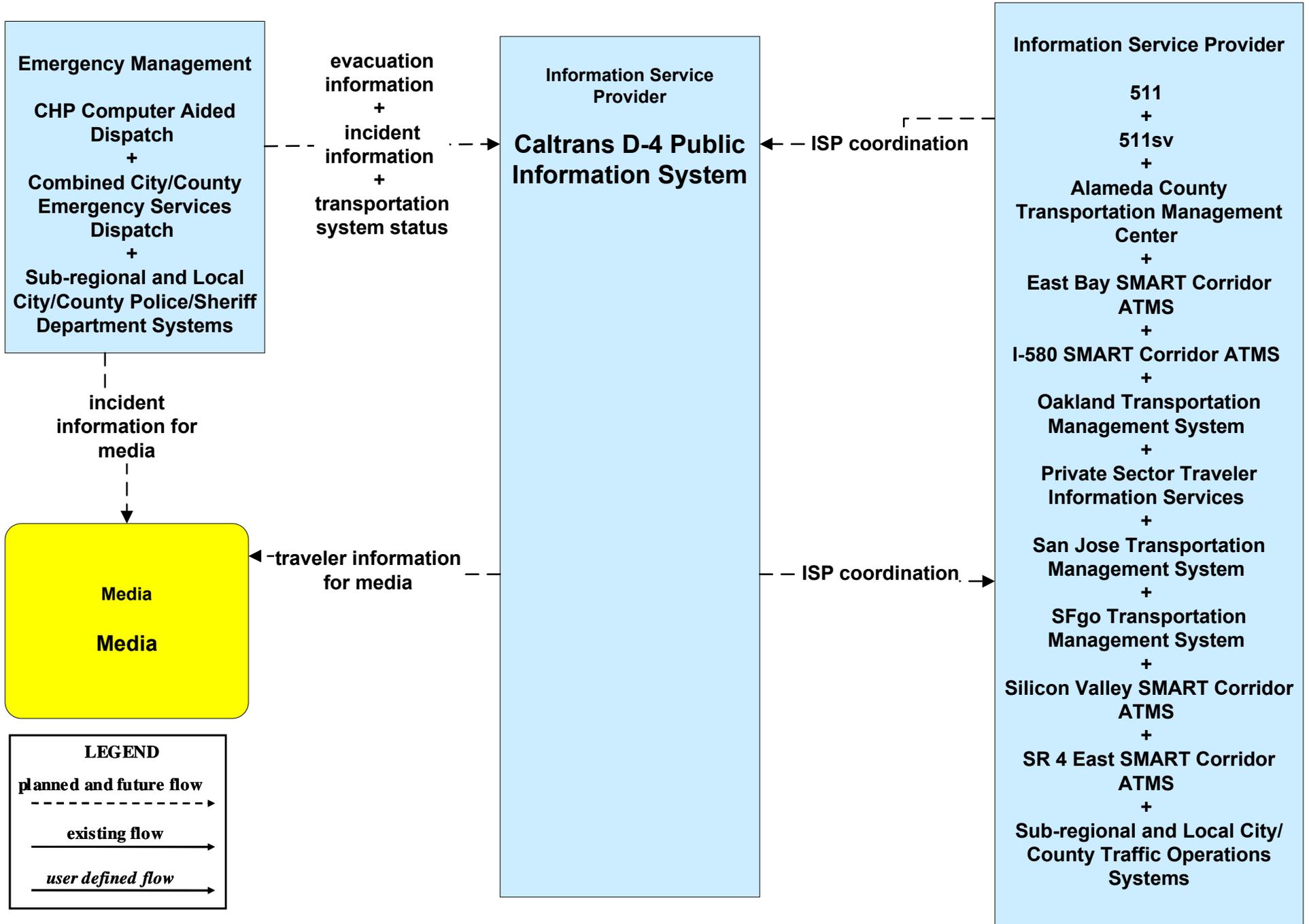
Local City/County/Regional EOC (2 of 2)



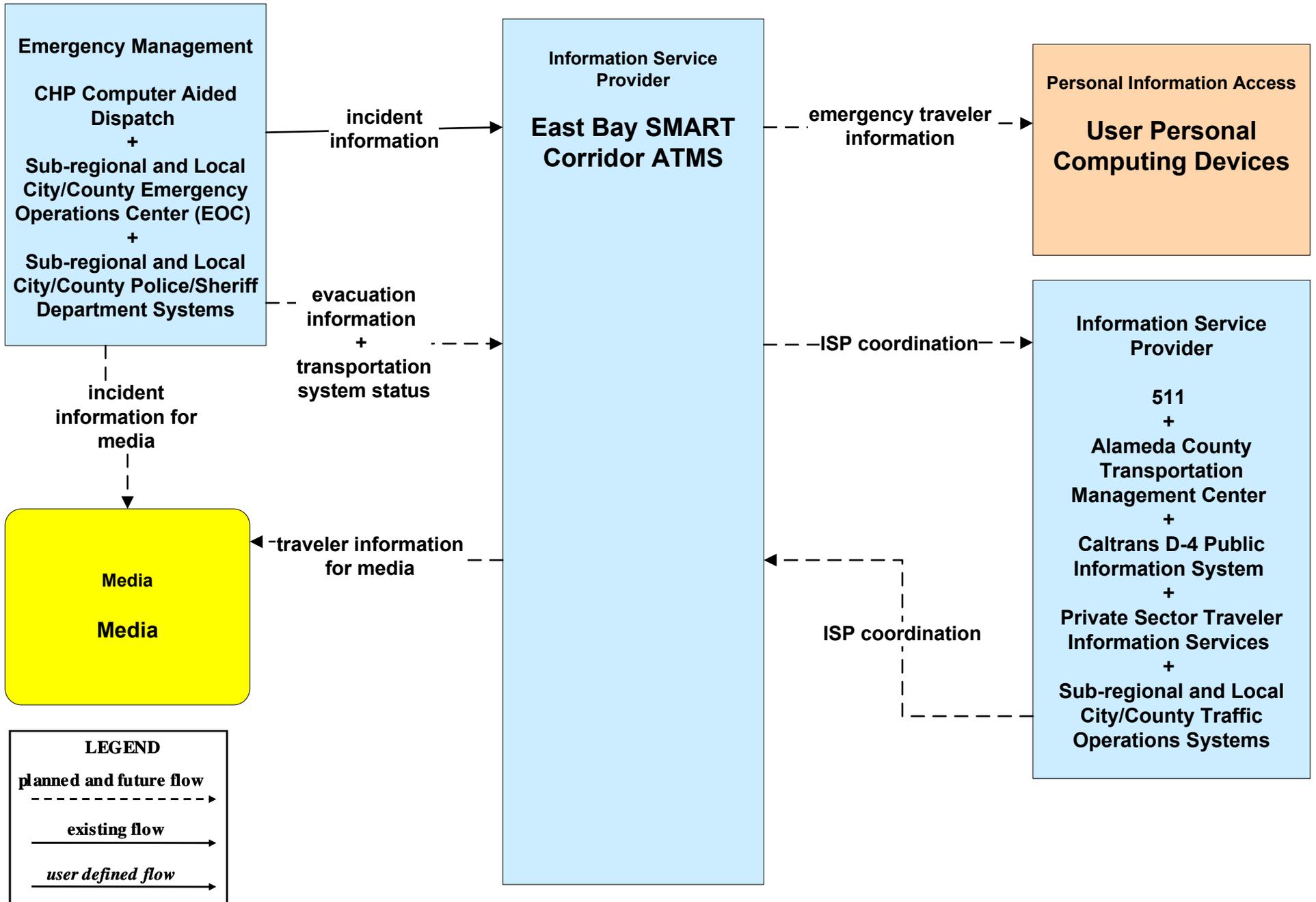
EM10 - Disaster Traveler Information Alameda County



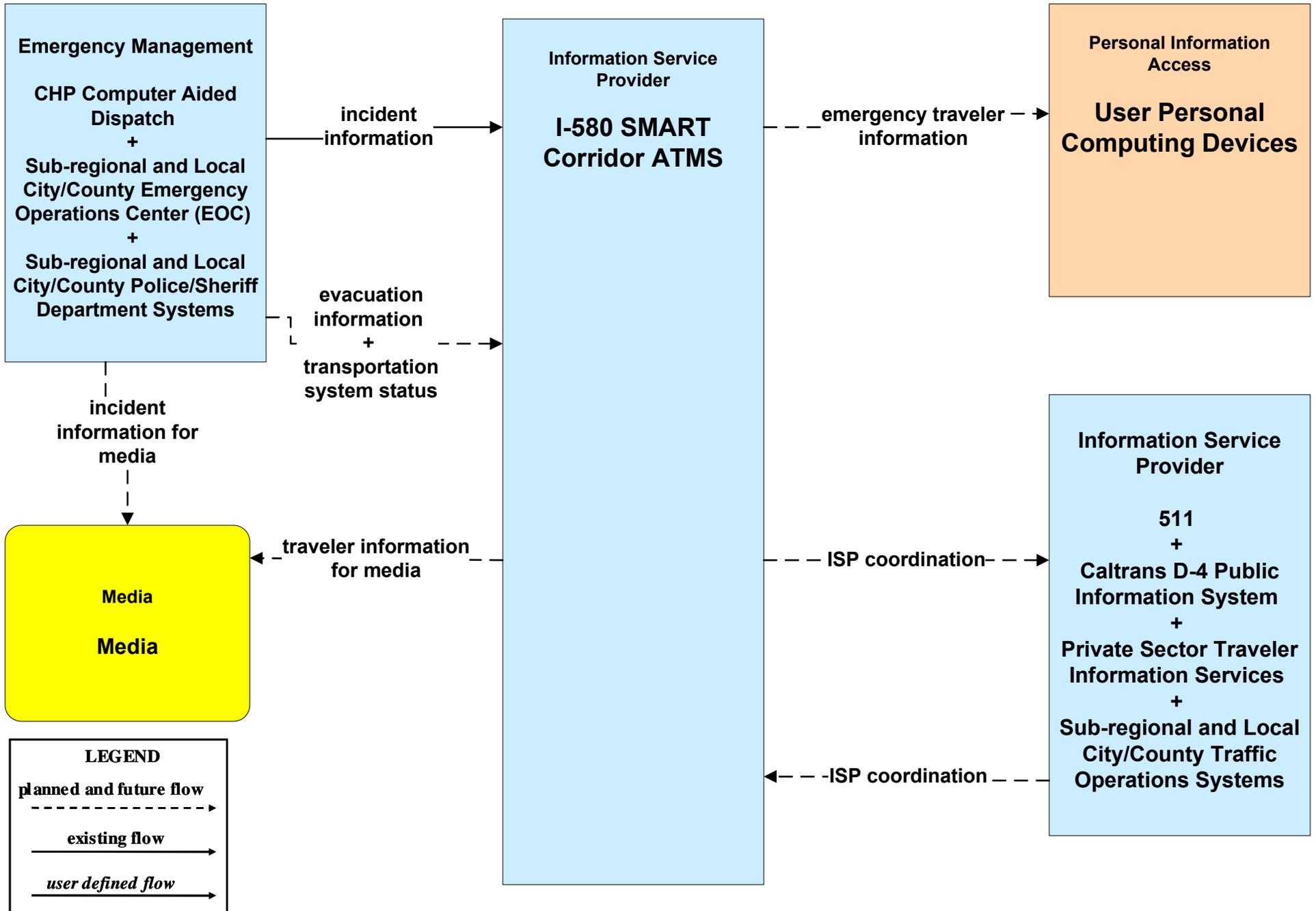
EM10 - Disaster Traveler Information Caltrans D-4 Public Information Office



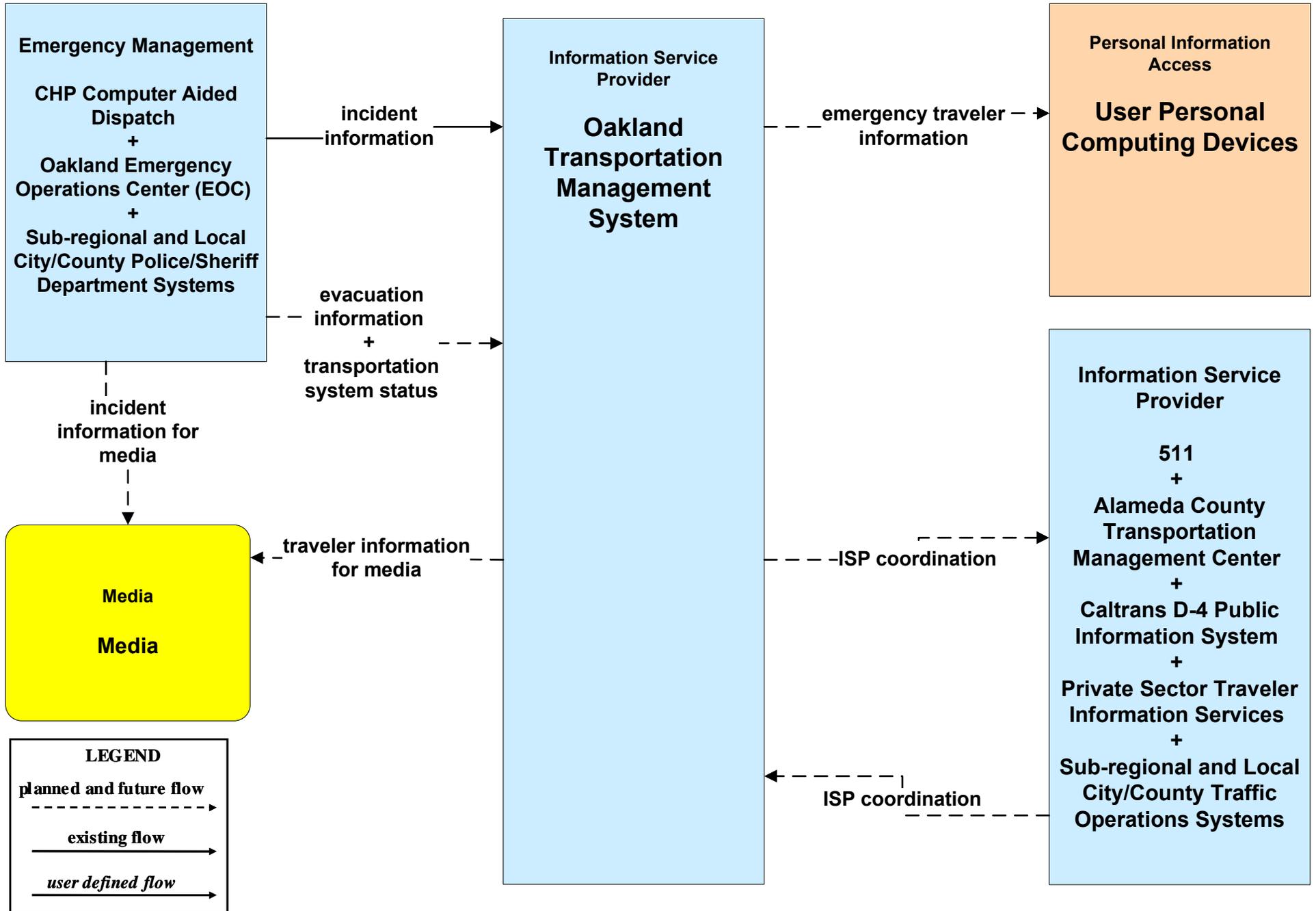
EM10 - Disaster Traveler Information East Bay SMART Corridor



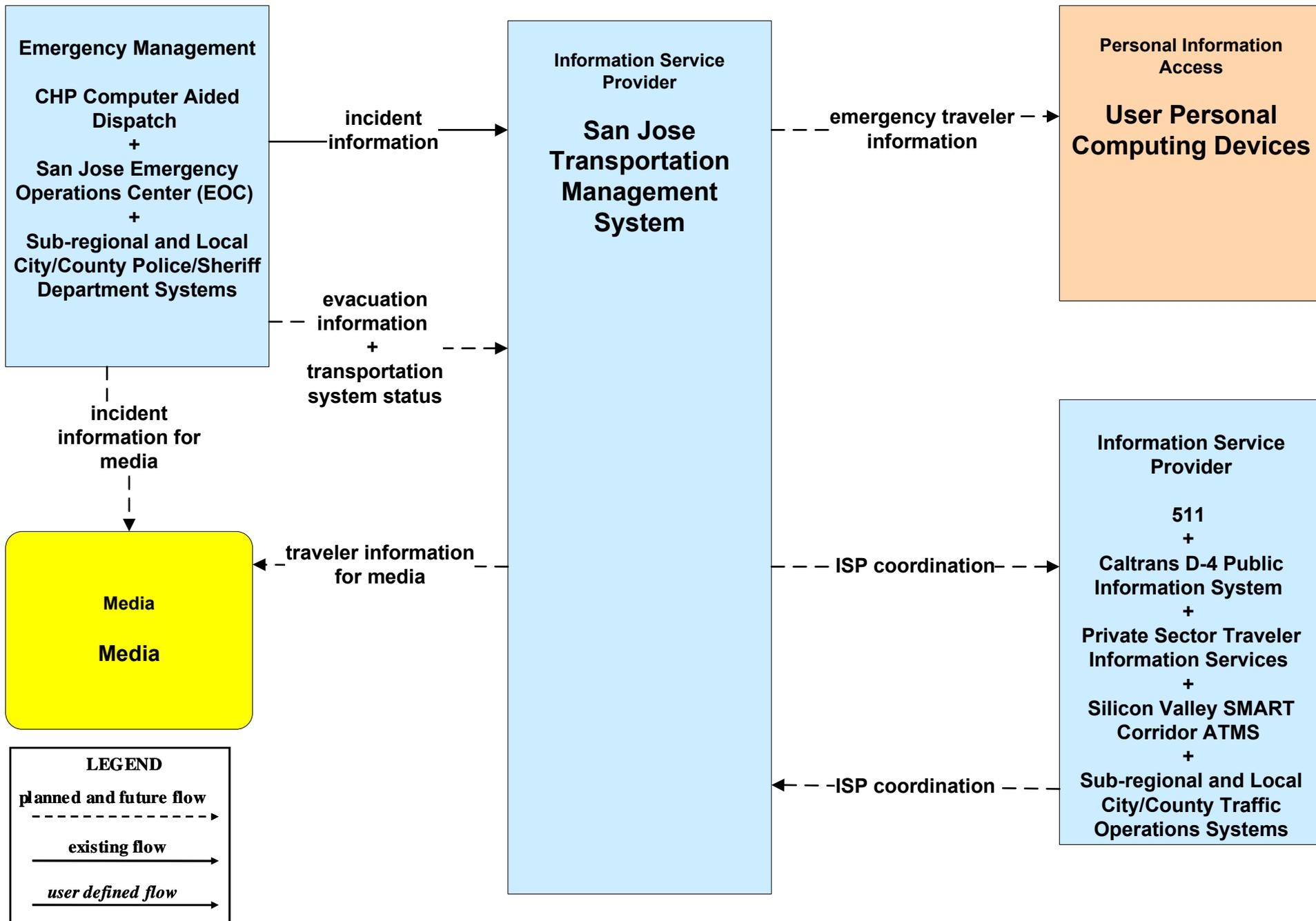
EM10 - Disaster Traveler Information I-580 SMART Corridor



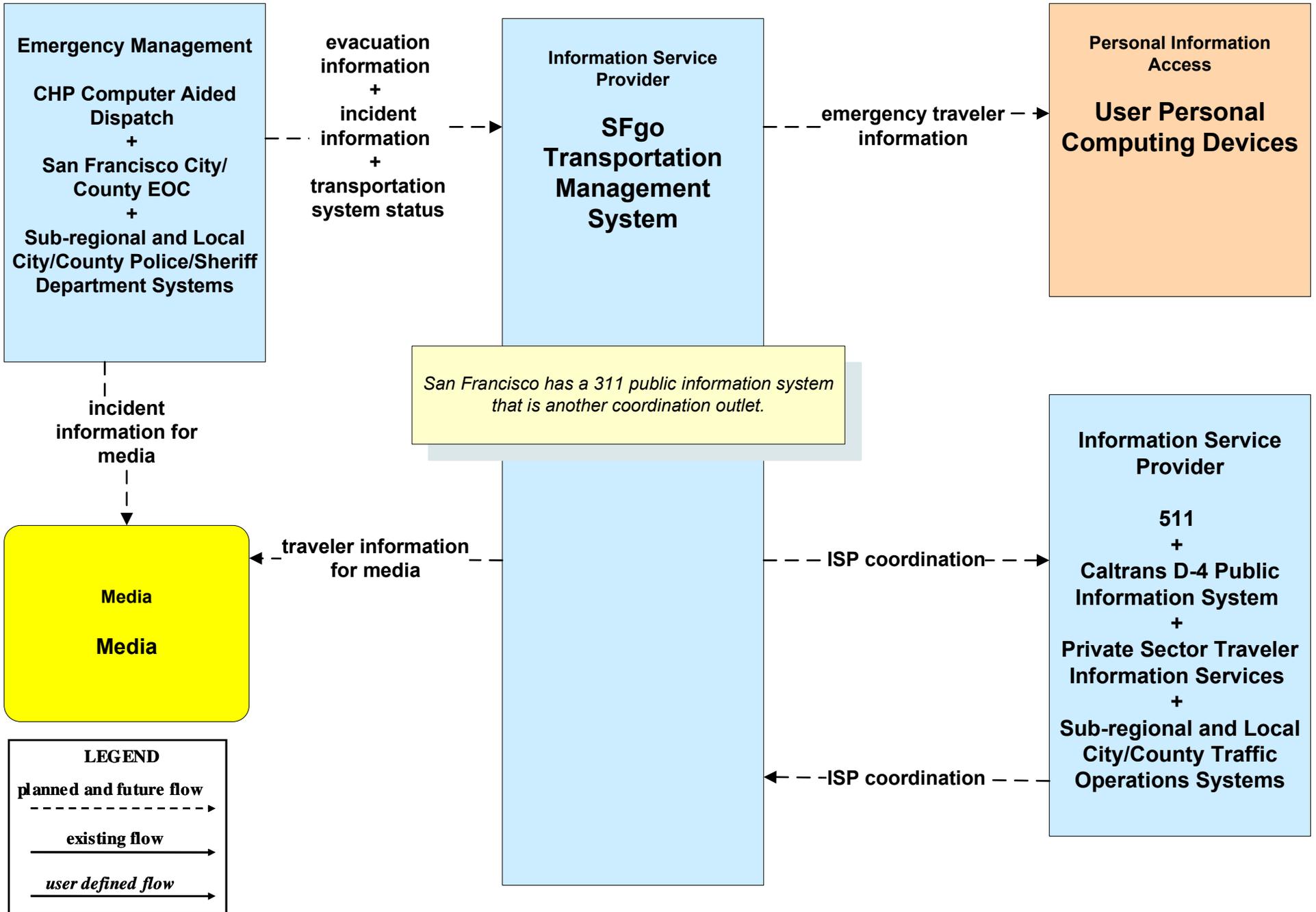
EM10 - Disaster Traveler Information Oakland Transportation Management System



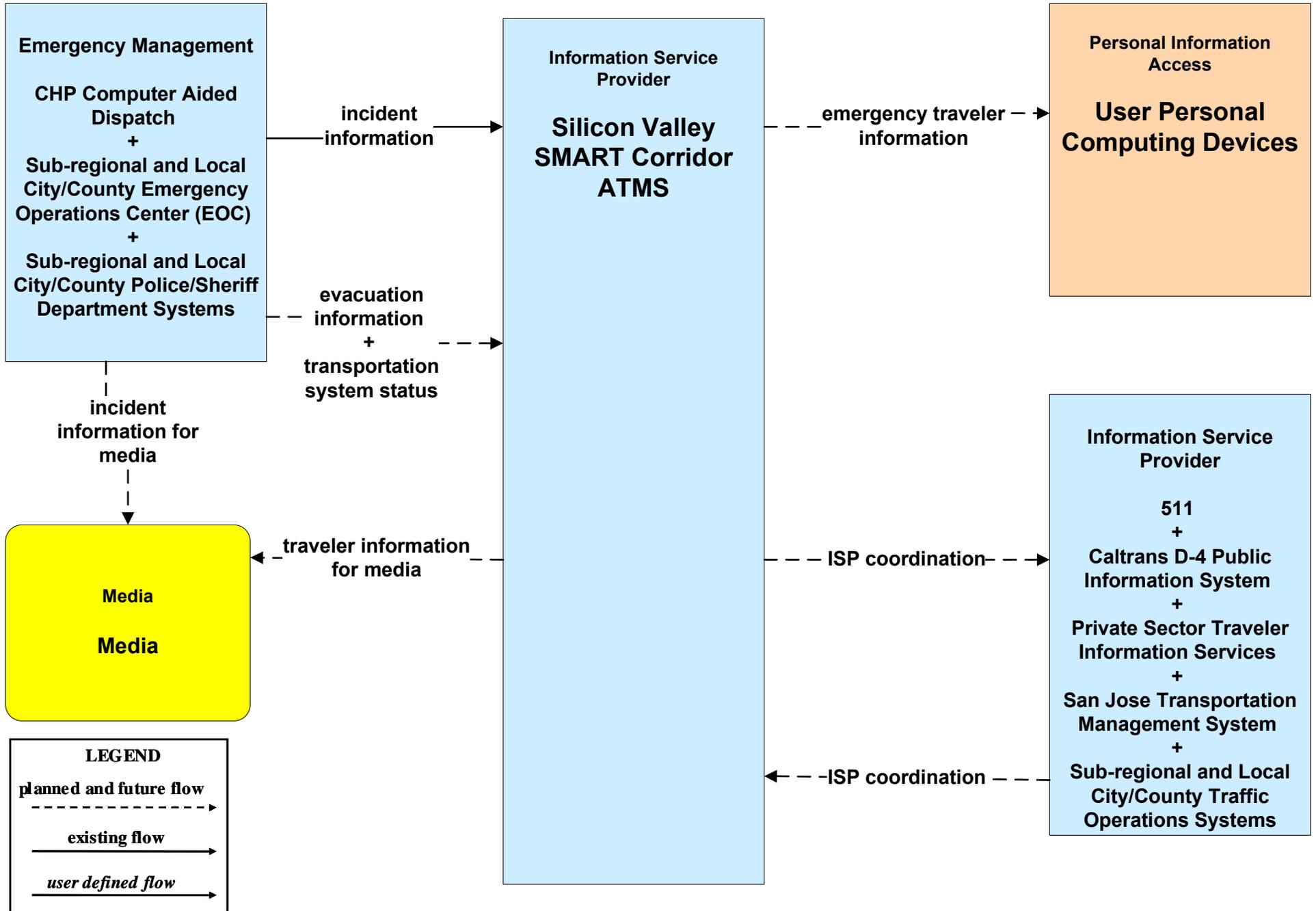
EM10 - Disaster Traveler Information San Jose Transportation Management System



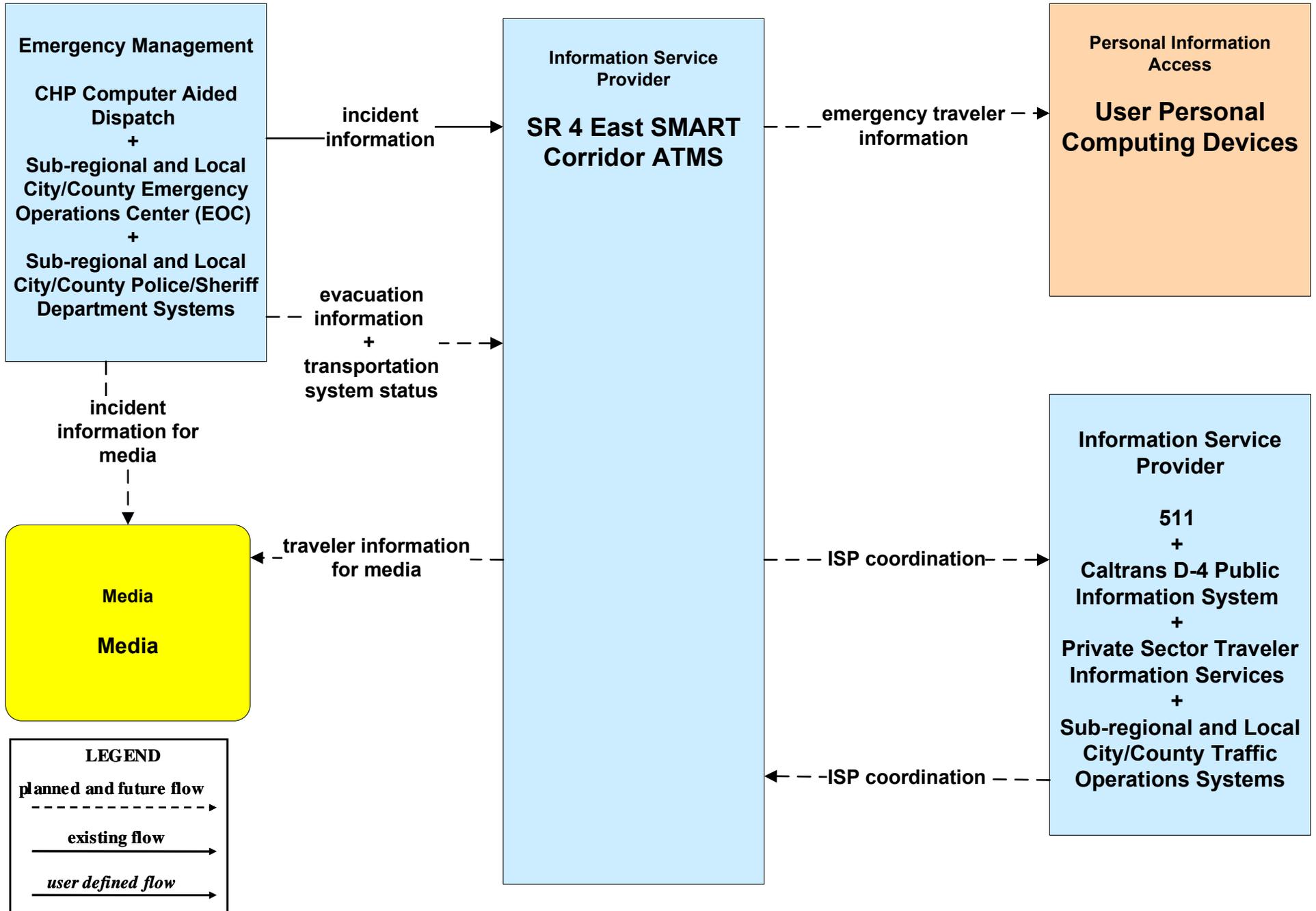
EM10 - Disaster Traveler Information San Francisco



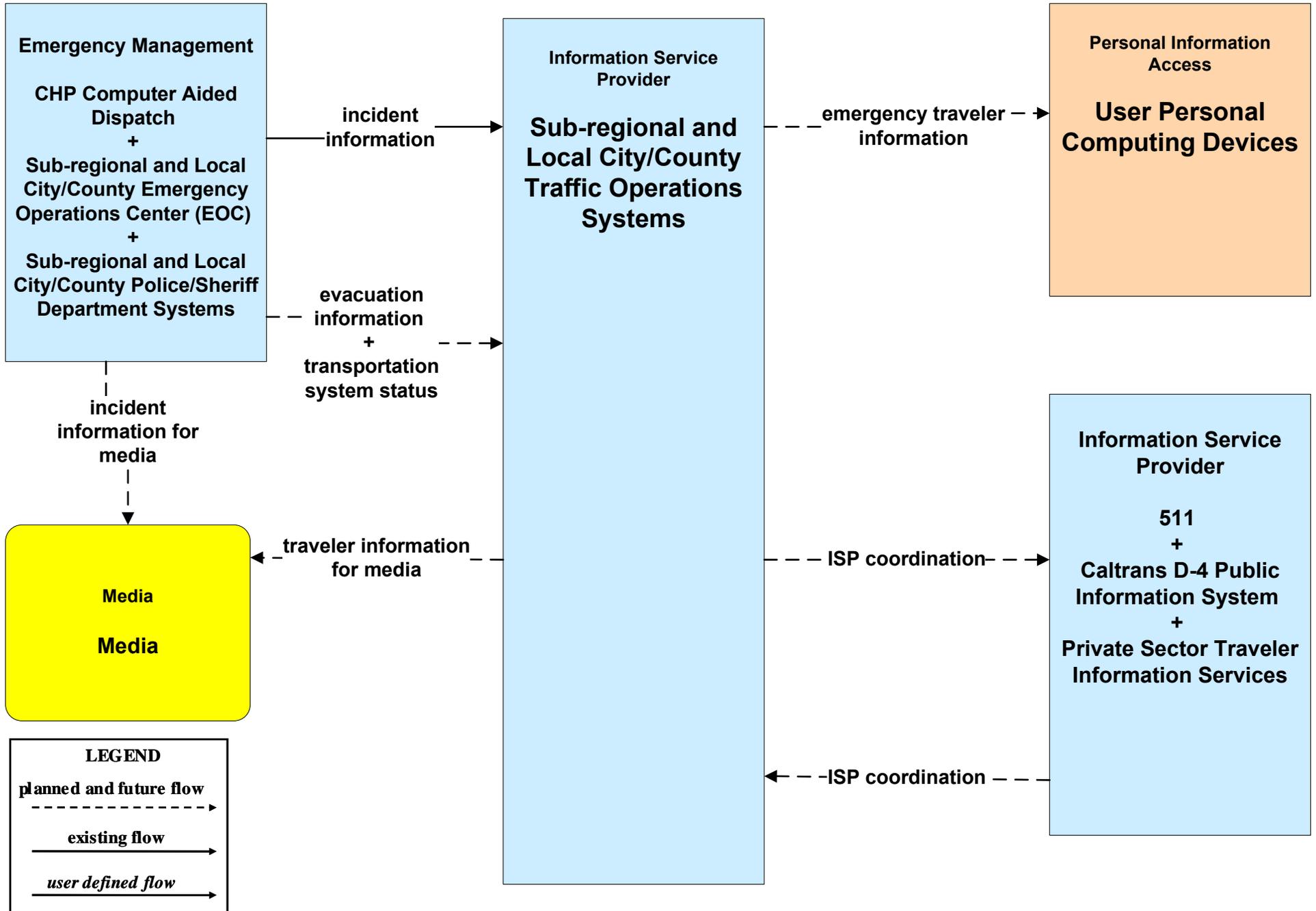
EM10 - Disaster Traveler Information Silicon Valley SMART Corridor



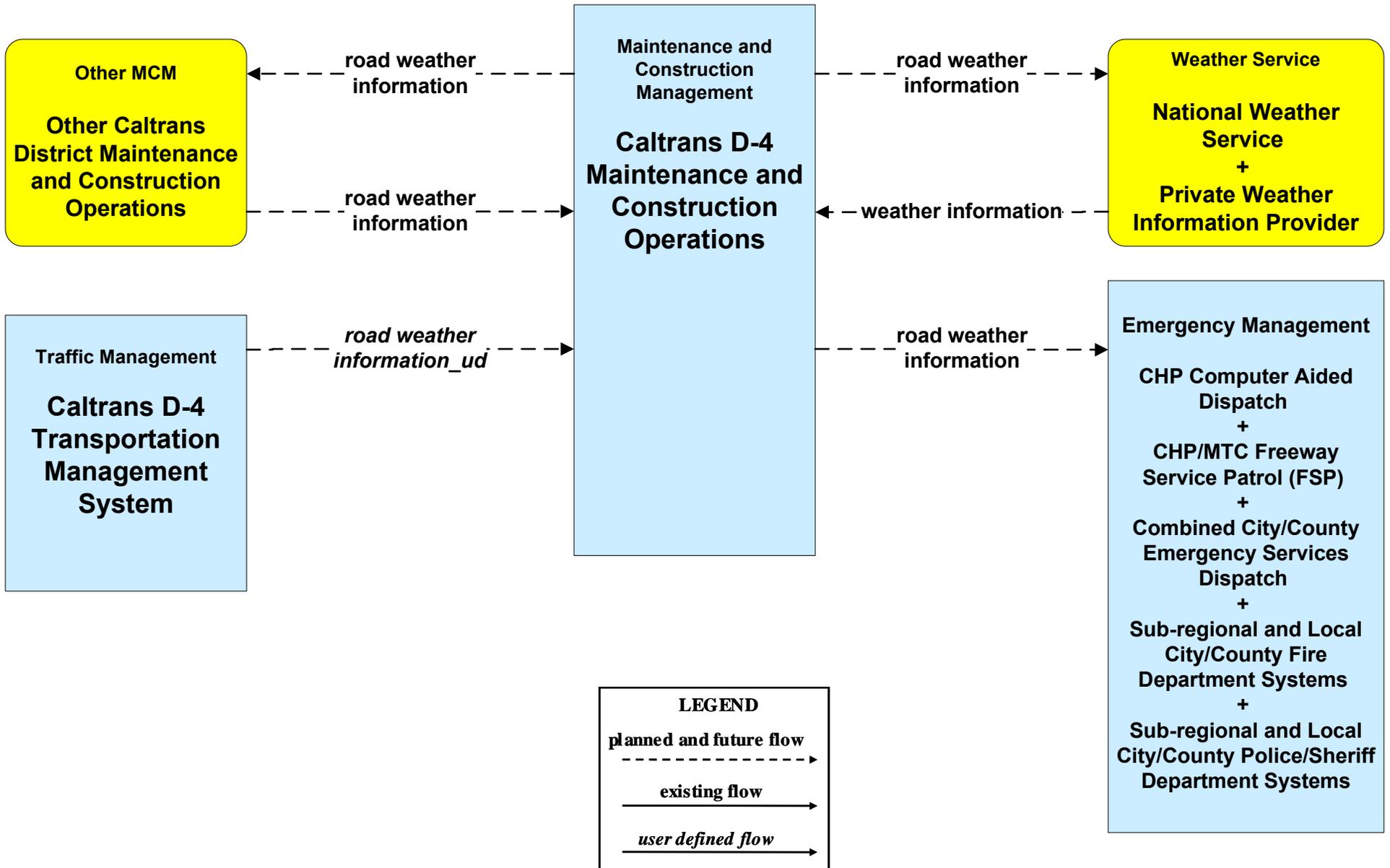
EM10 - Disaster Traveler Information SR 4 East SMART Corridor



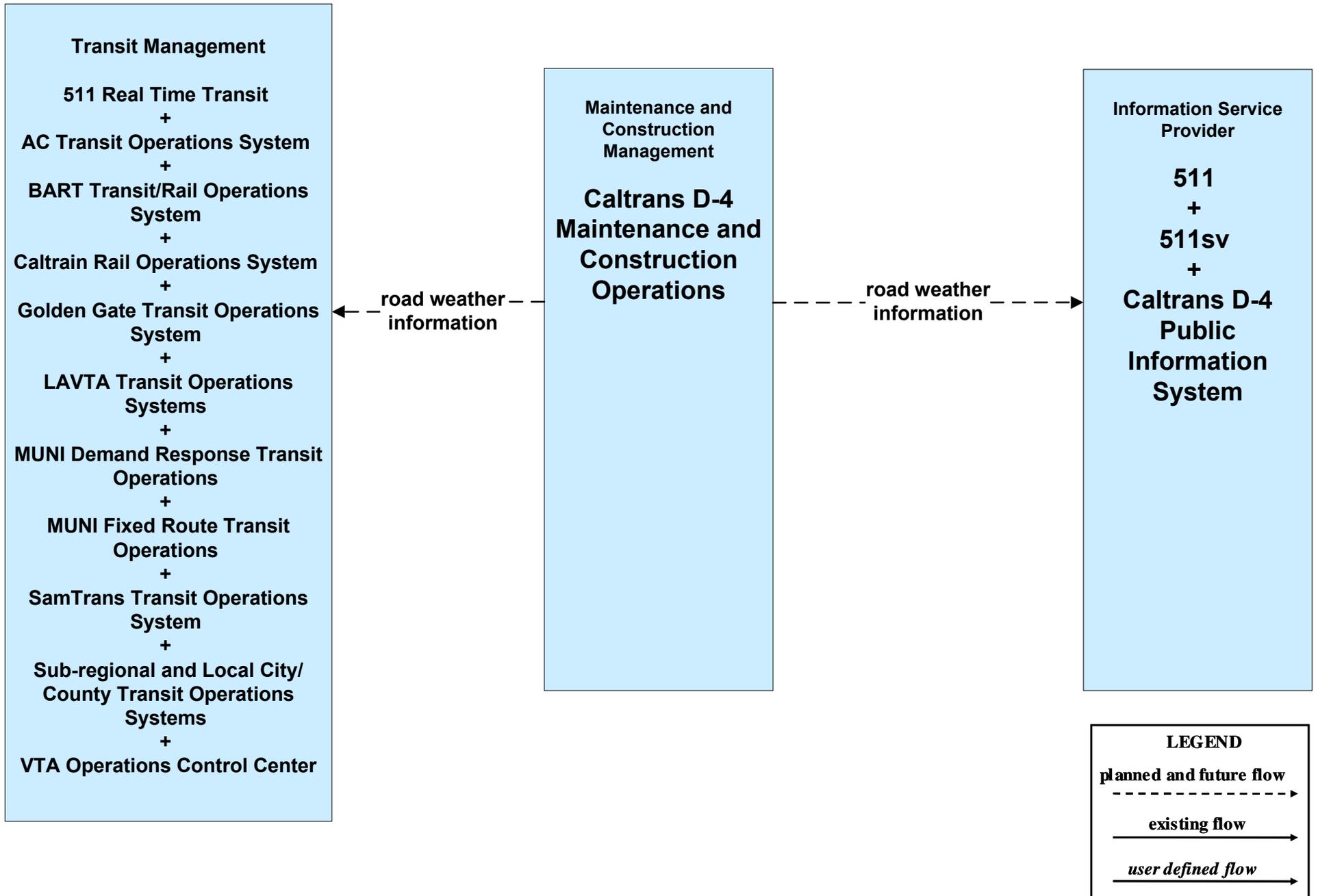
EM10 - Disaster Traveler Information Local City/County



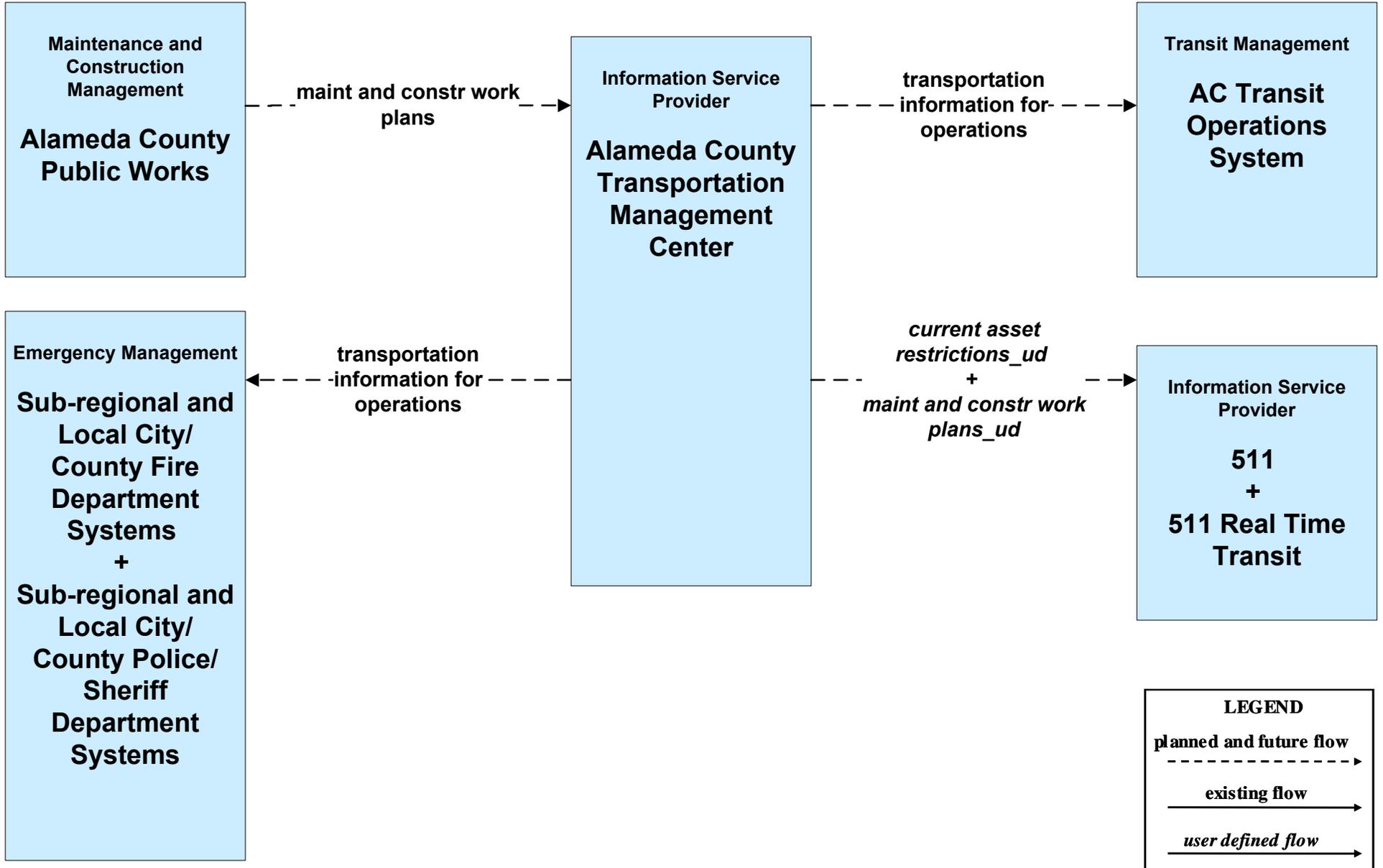
**MC04 - Weather Information Processing and Distribution
Caltrans (1 of 2)**



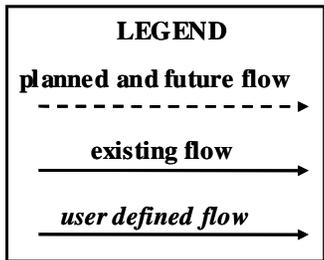
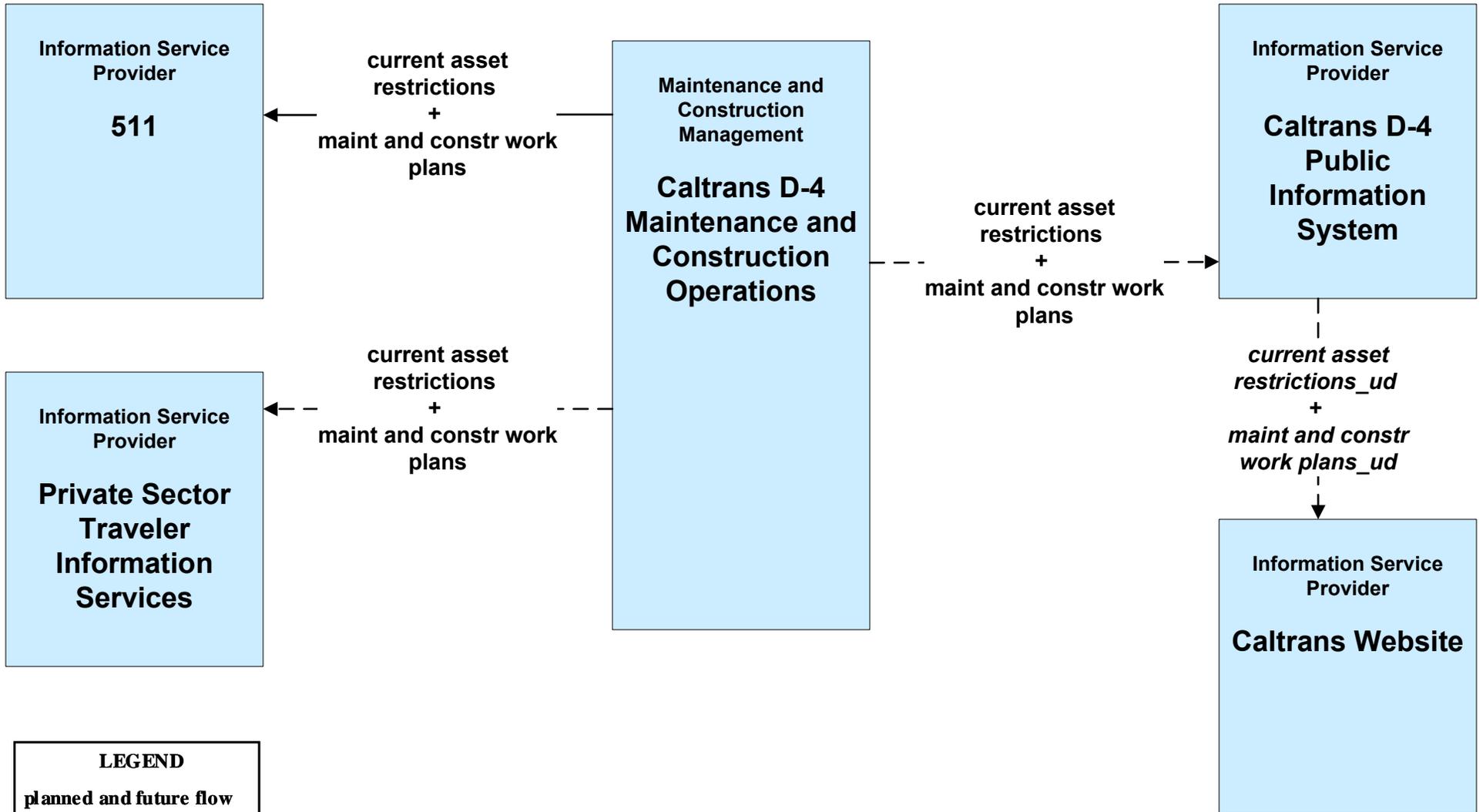
**MC04 - Weather Information Processing and Distribution
Caltrans (2 of 2)**



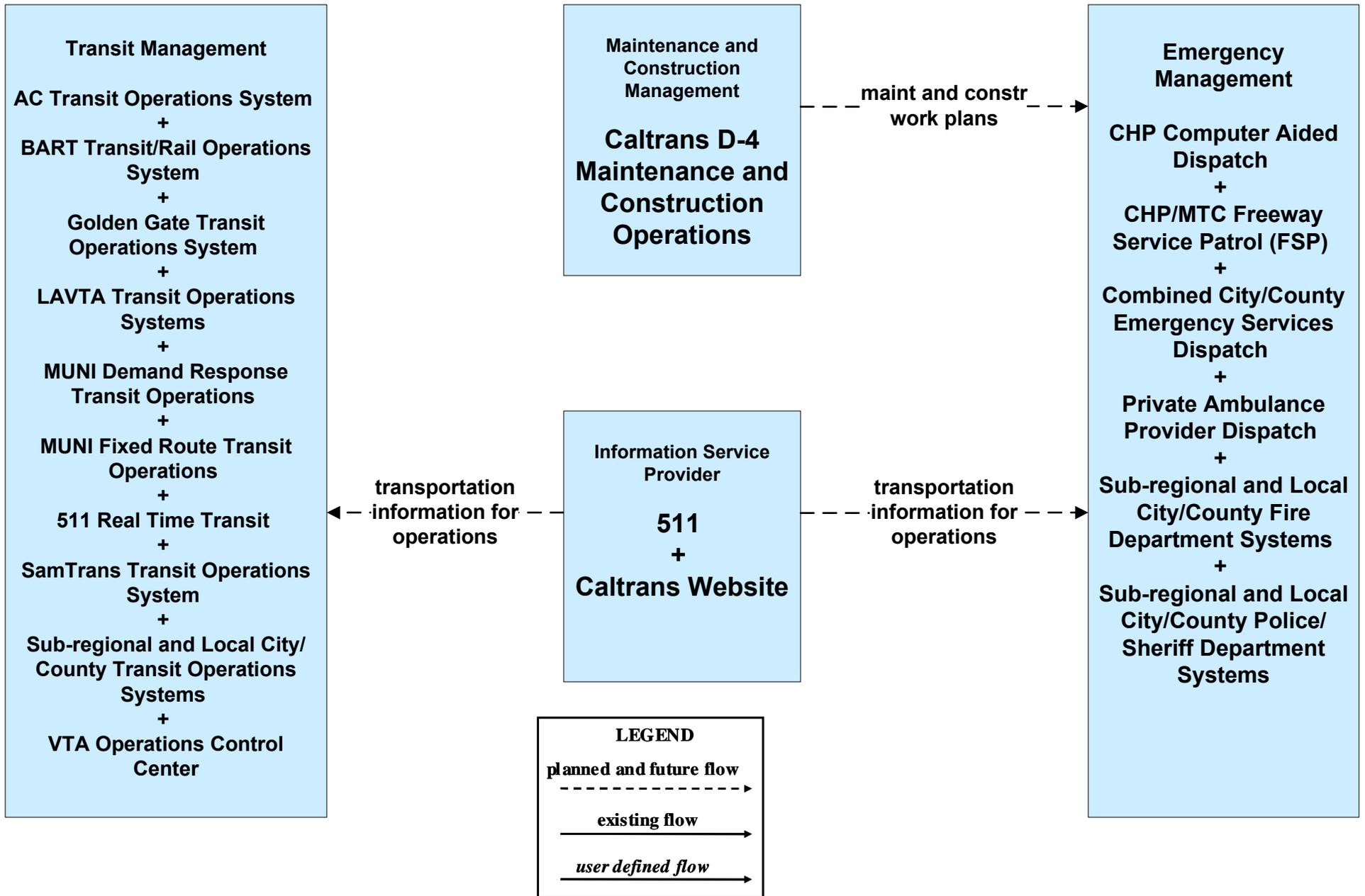
**MC10 - Maintenance and Construction Activity Coordination
Alameda County (2 of 2)**



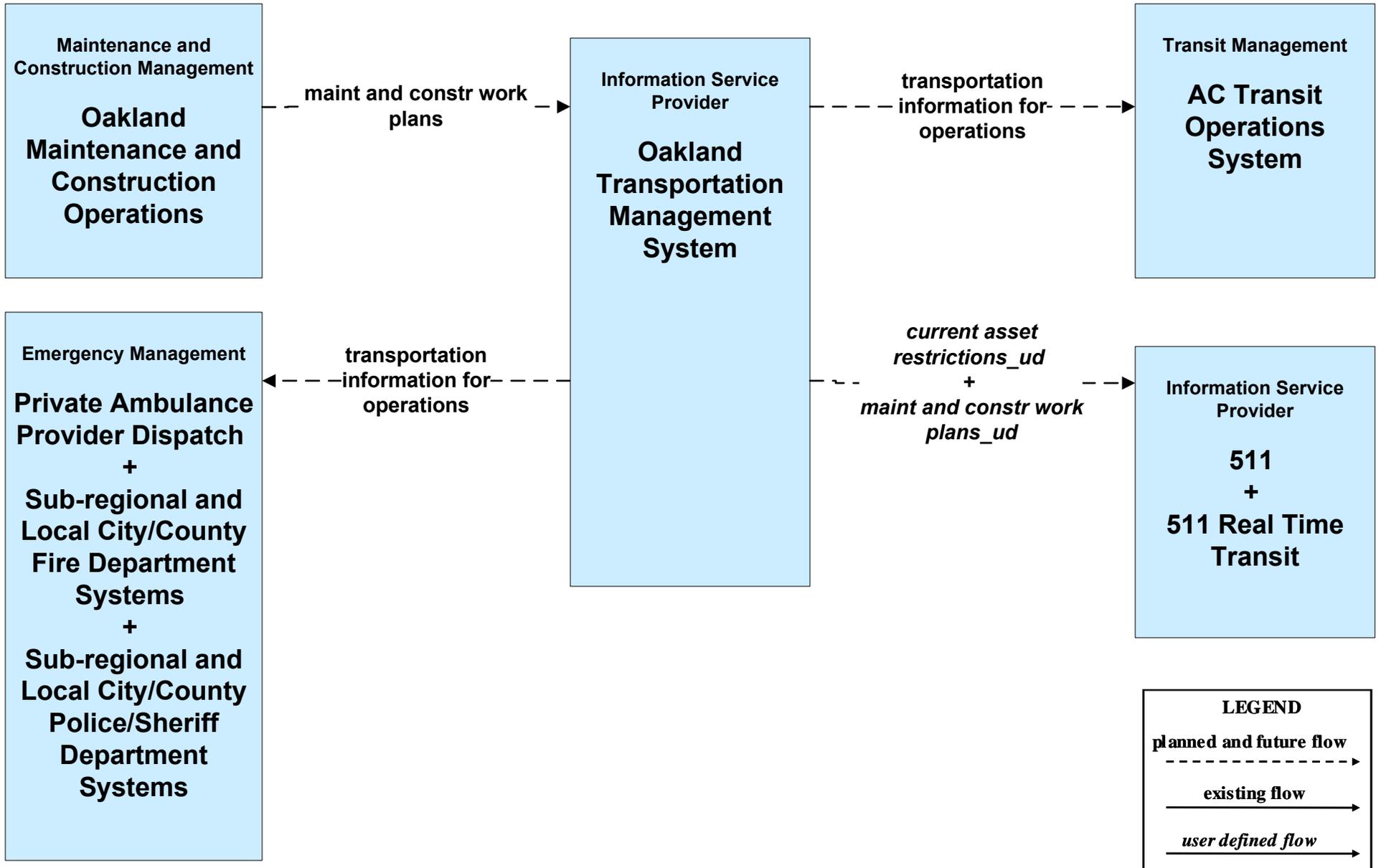
**MC10 - Maintenance and Construction Activity Coordination
Activity Coordination - Caltrans (2 of 3)**



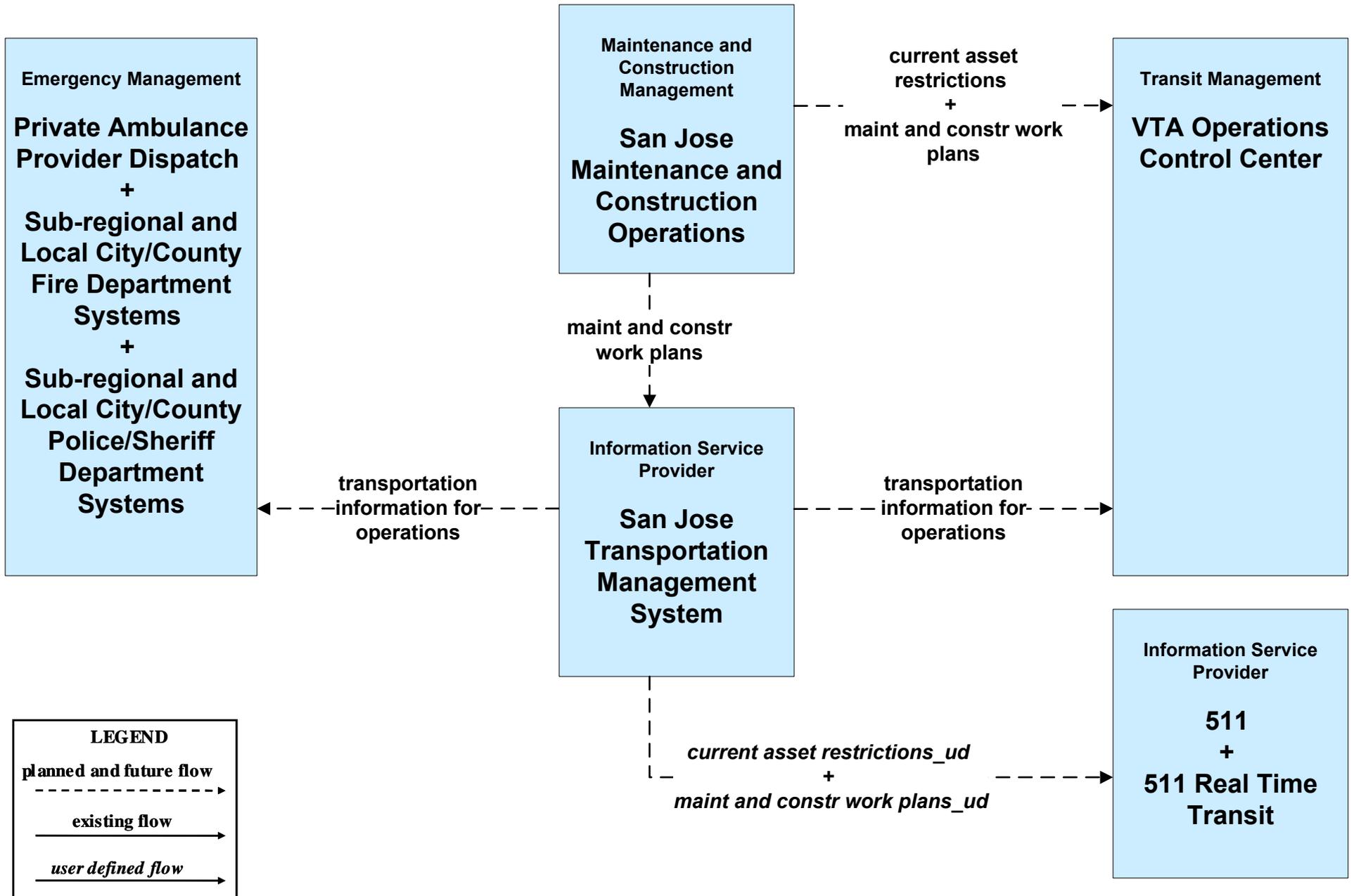
MC10 - Maintenance and Construction Activity Coordination
Activity Coordination - MTC (3 of 3)



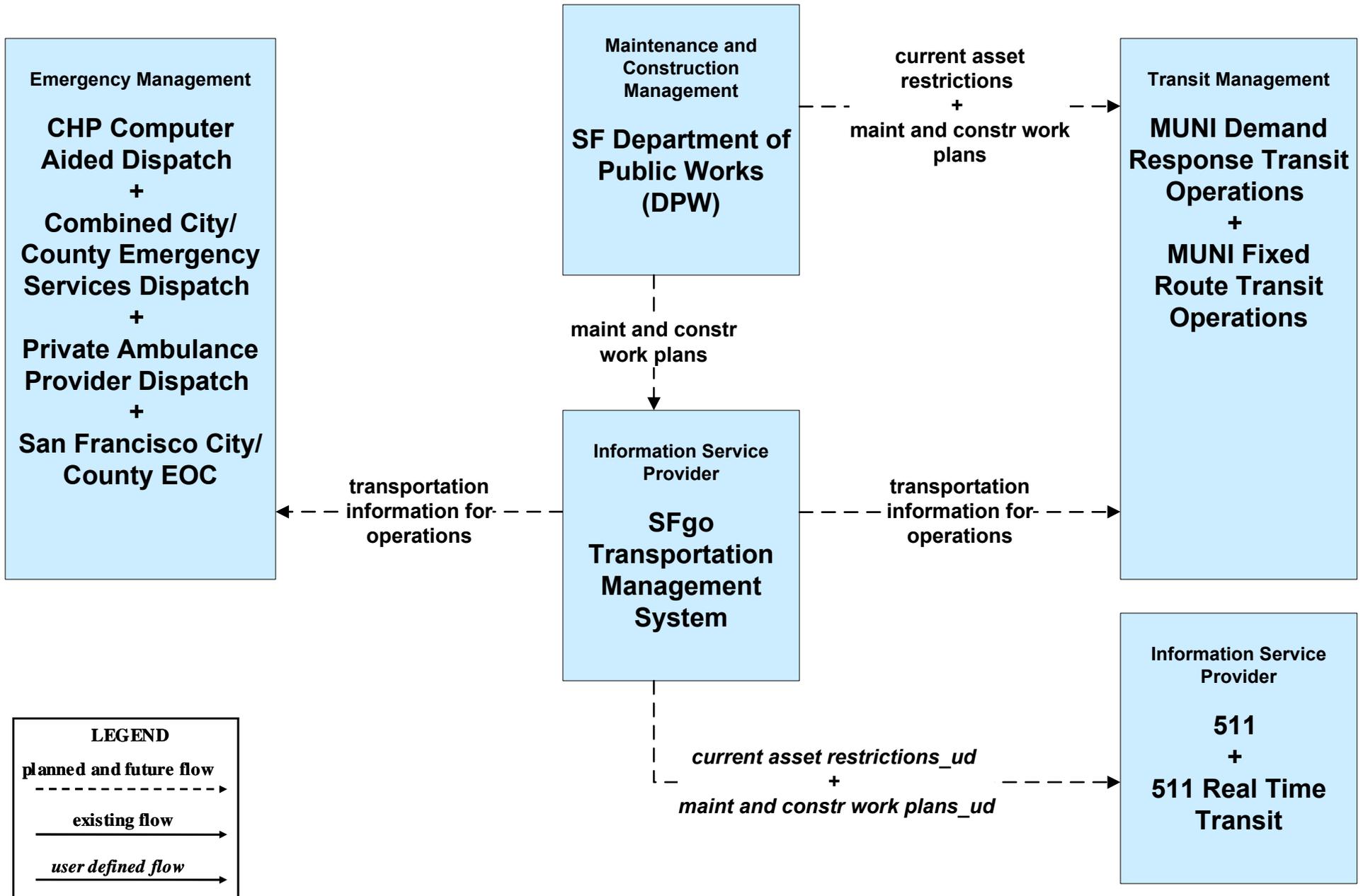
**MC10 - Maintenance and Construction Activity Coordination
City of Oakland (2 of 2)**



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



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



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

