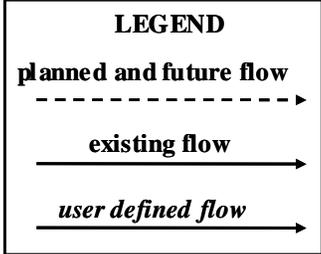
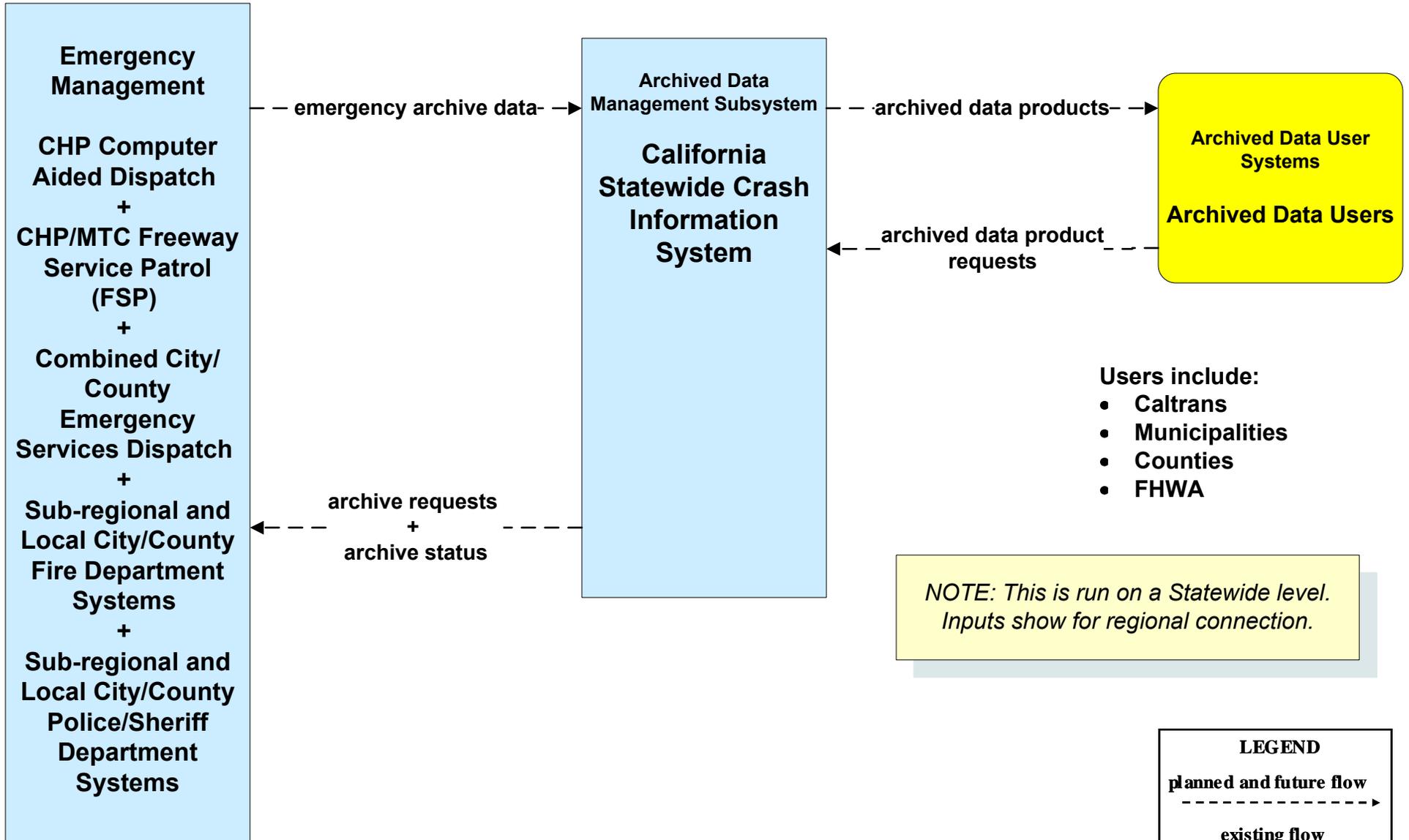
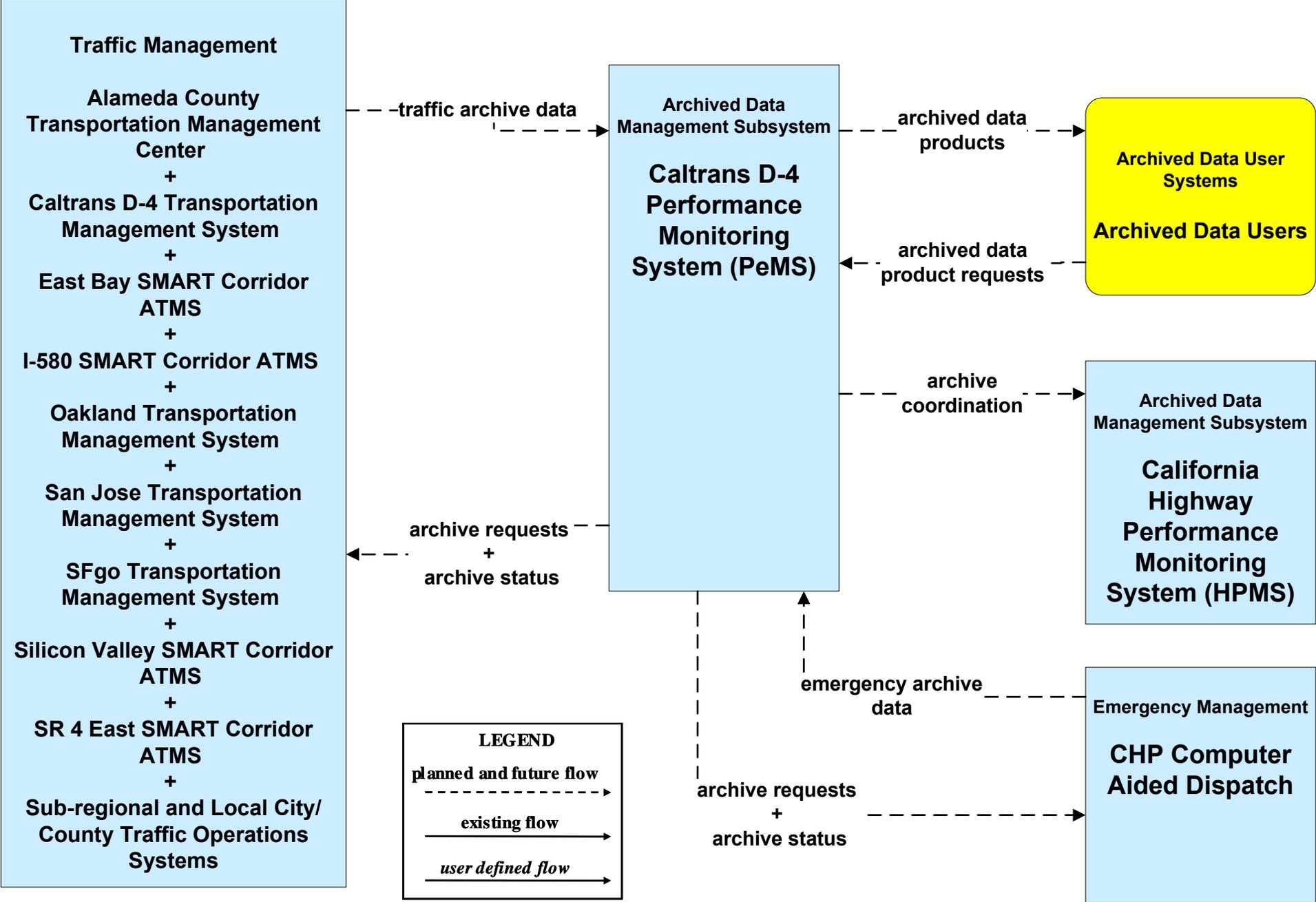


**AD1 - ITS Data Mart
Caltrans Statewide Crash Information System**

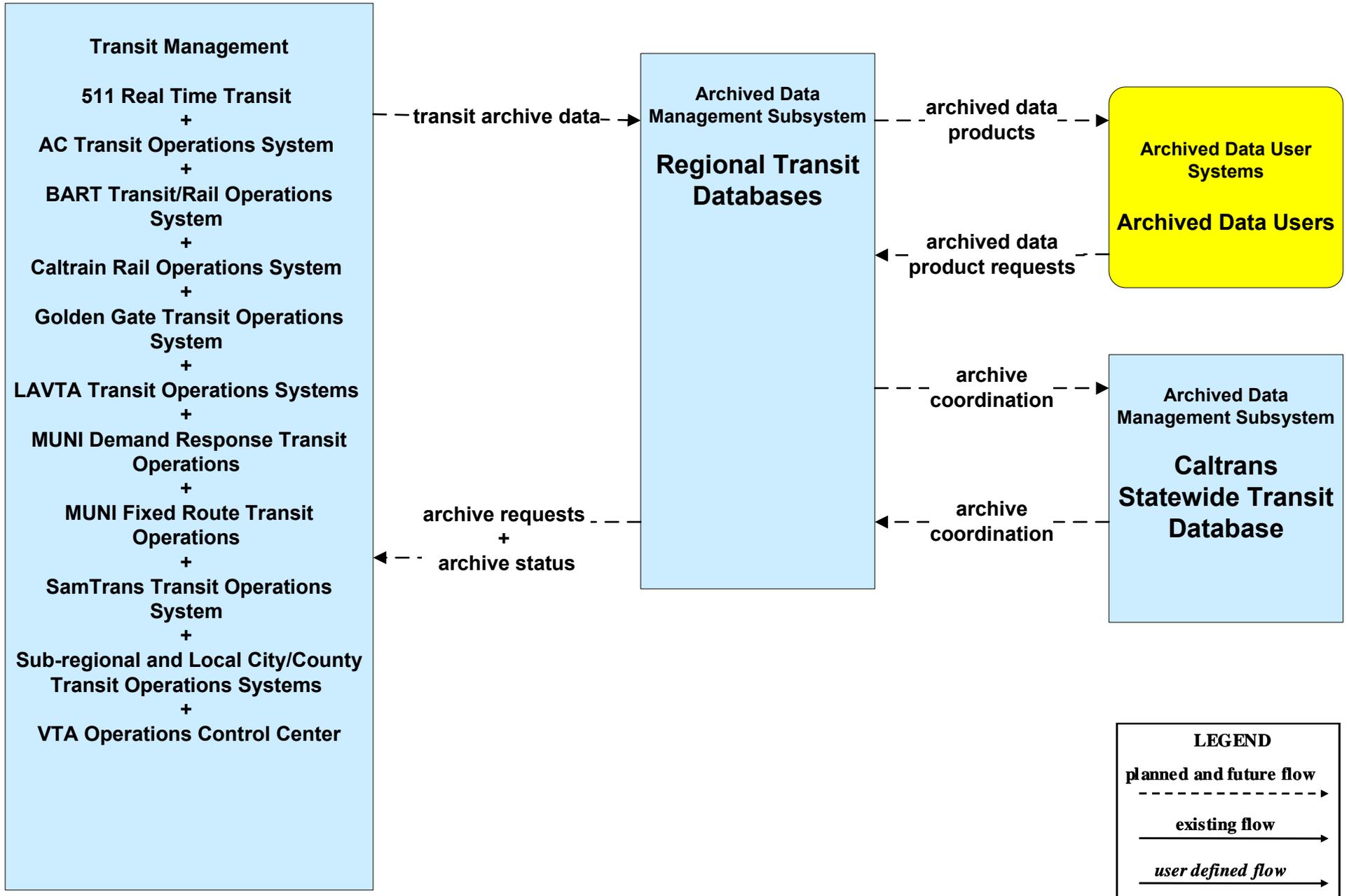


**AD1 - ITS Data Mart
Caltrans Performance Monitoring System (PeMS)**

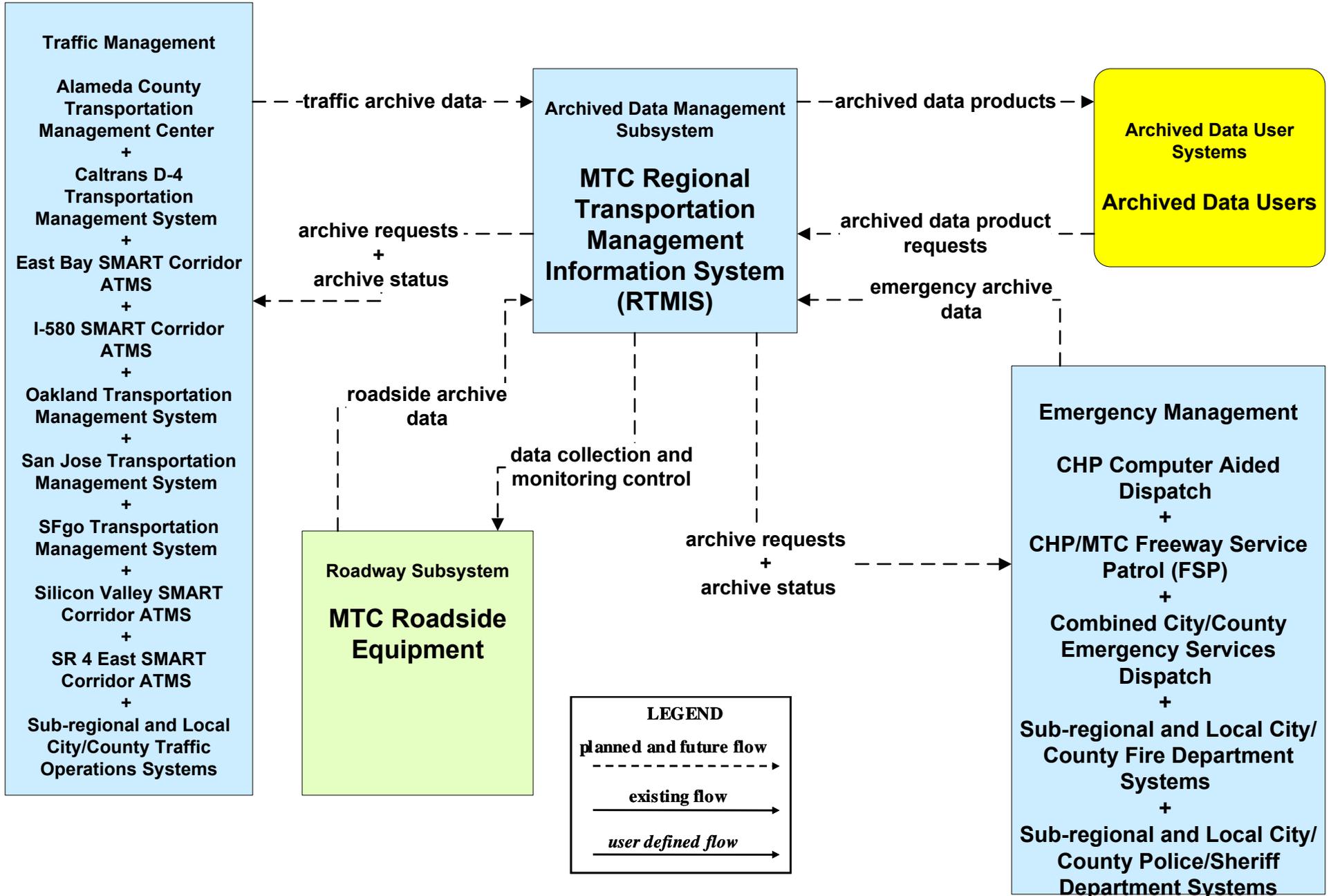


AD1 - ITS Data Mart

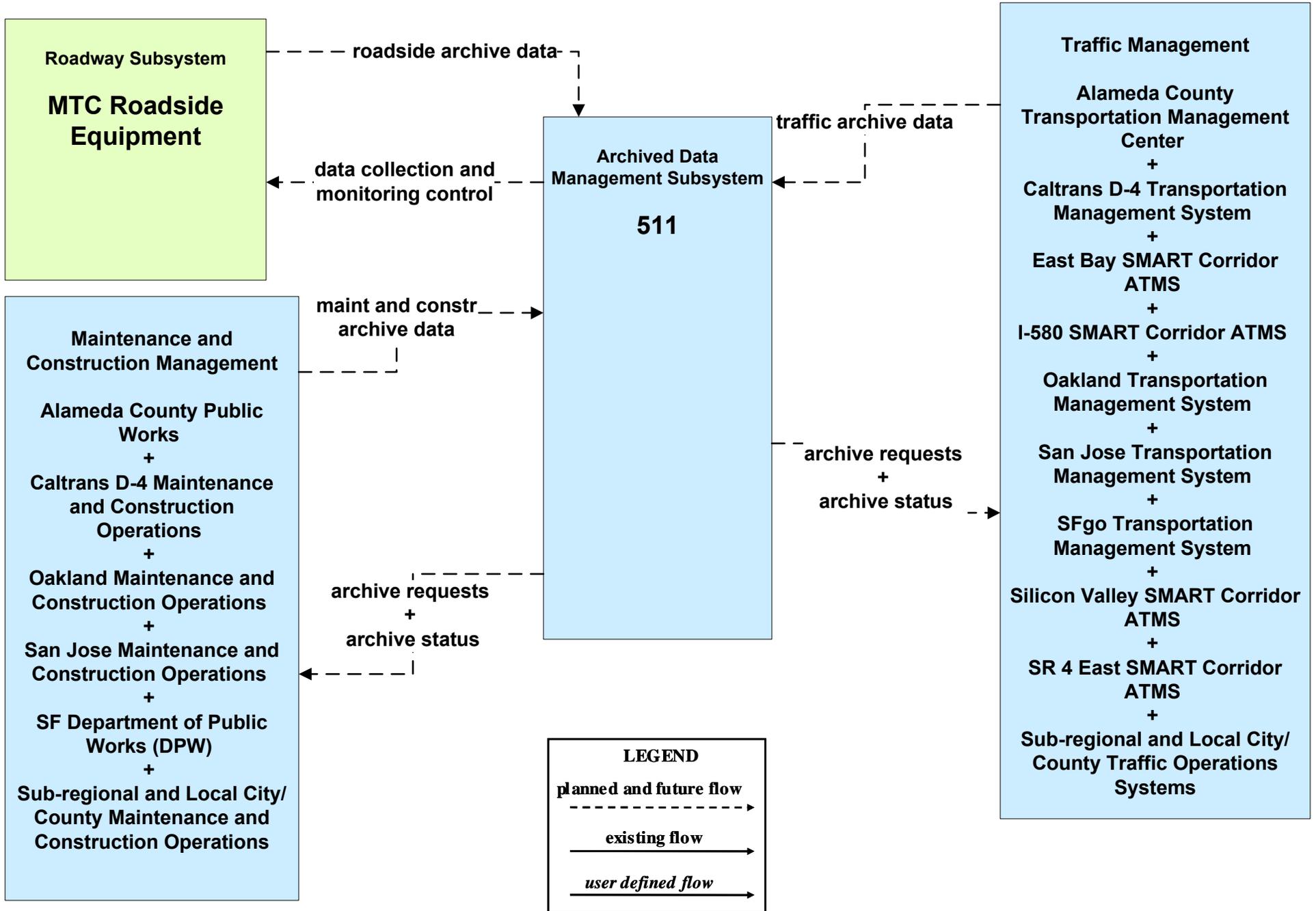
Caltrans Regional Transit Databases



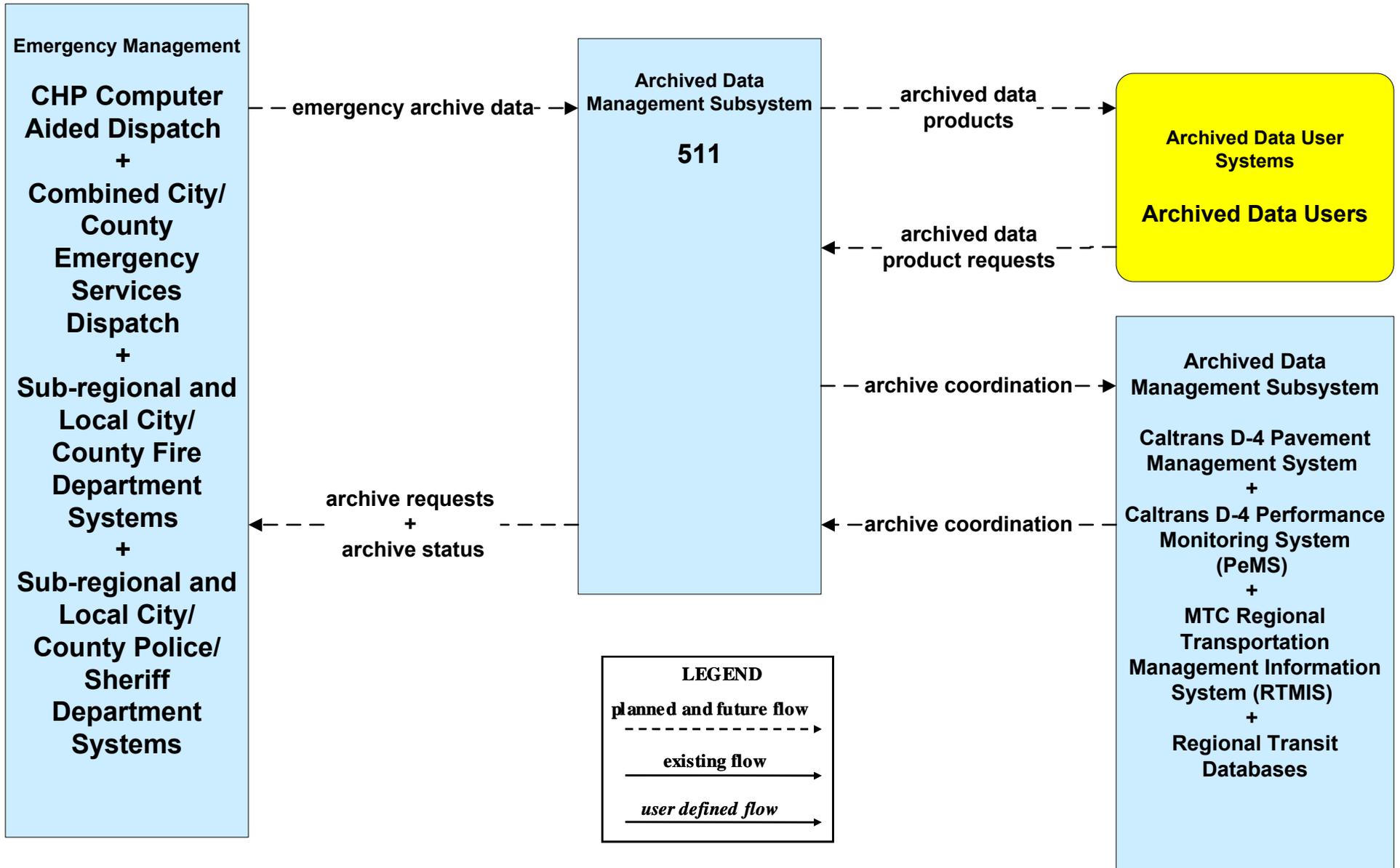
**AD1 - ITS Data Mart
MTC RTMIS**



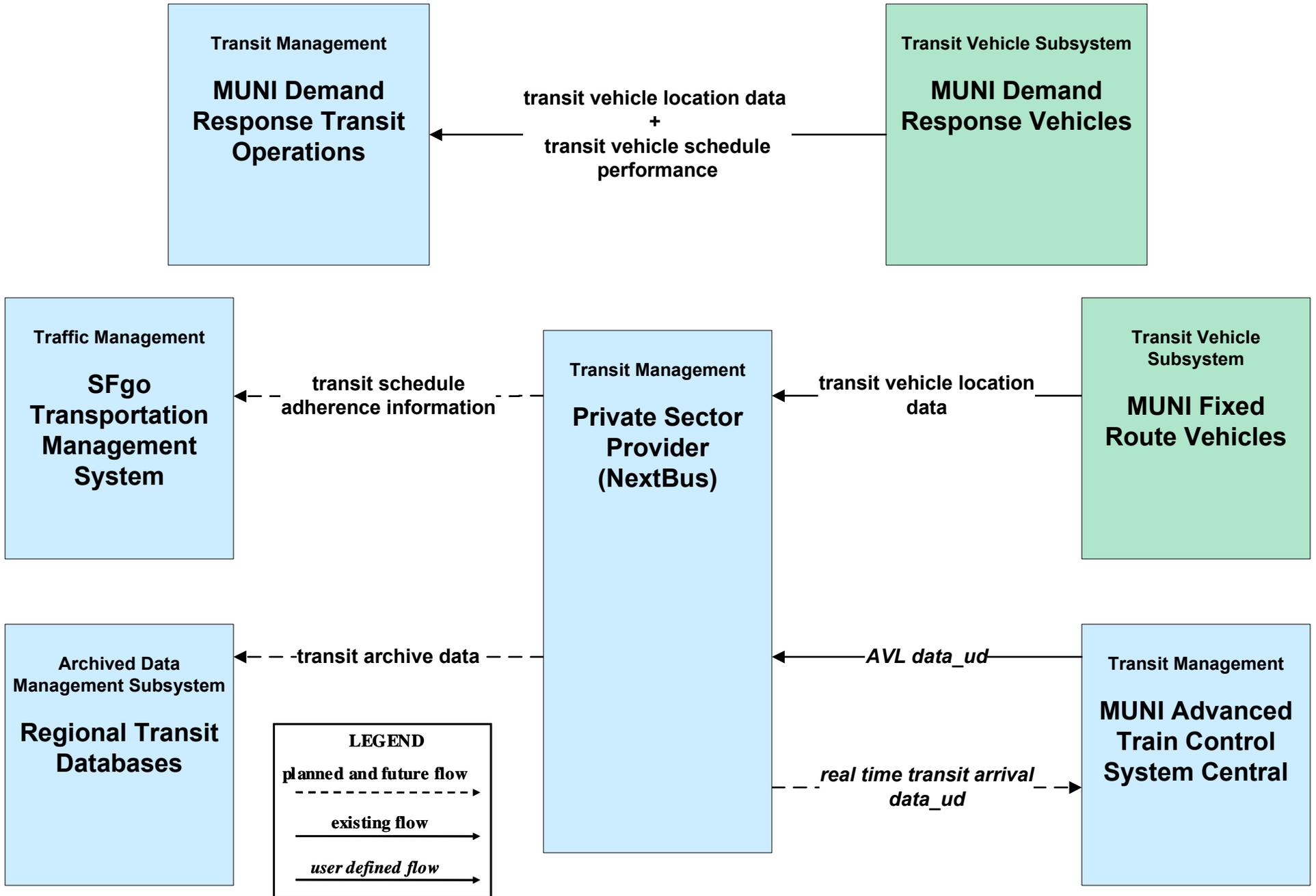
AD1 - ITS Data Mart 511 (1 of 2)



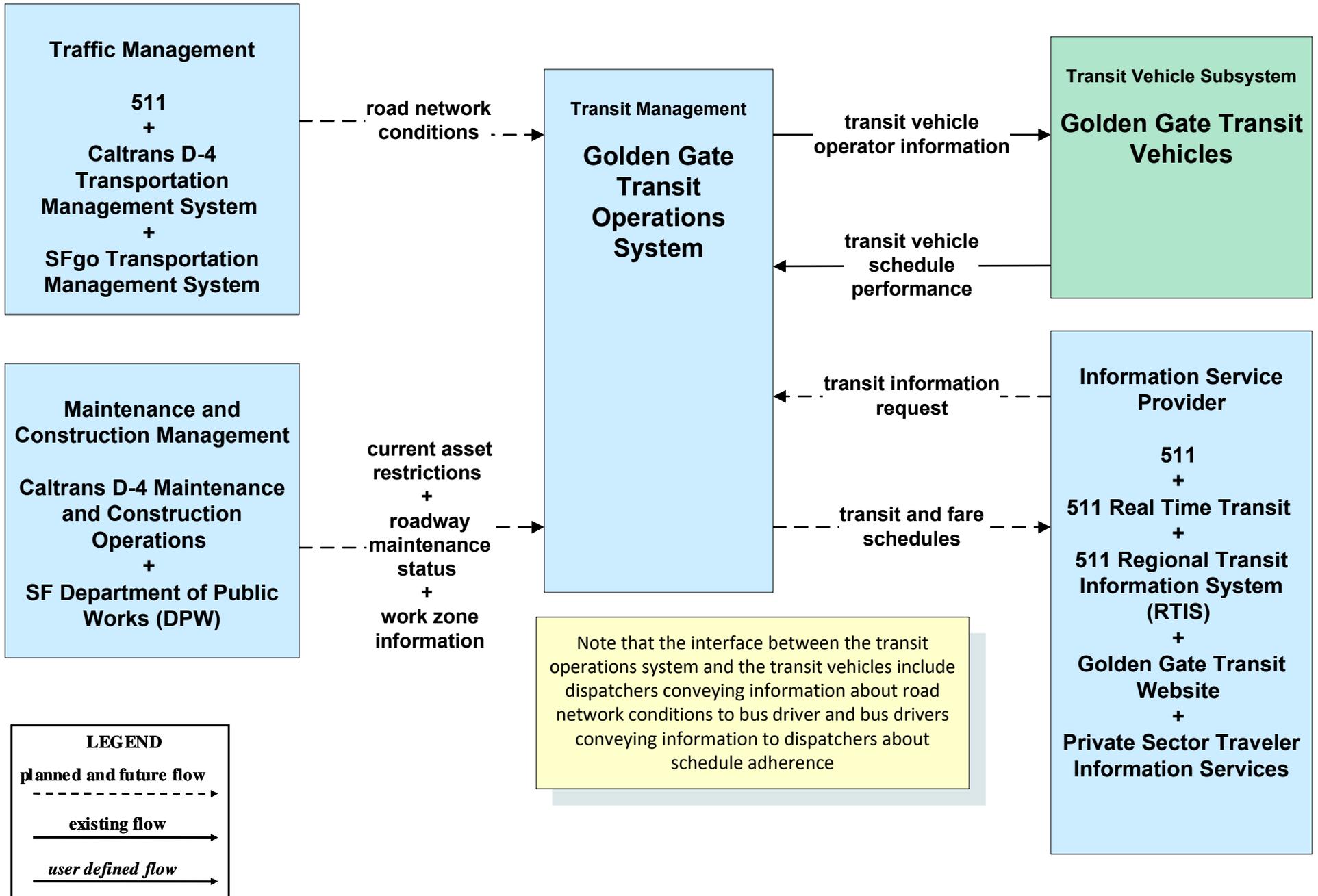
**AD1 - ITS Data Mart
511 (2 of 2)**



APTS01 - Transit Vehicle Tracking MUNI



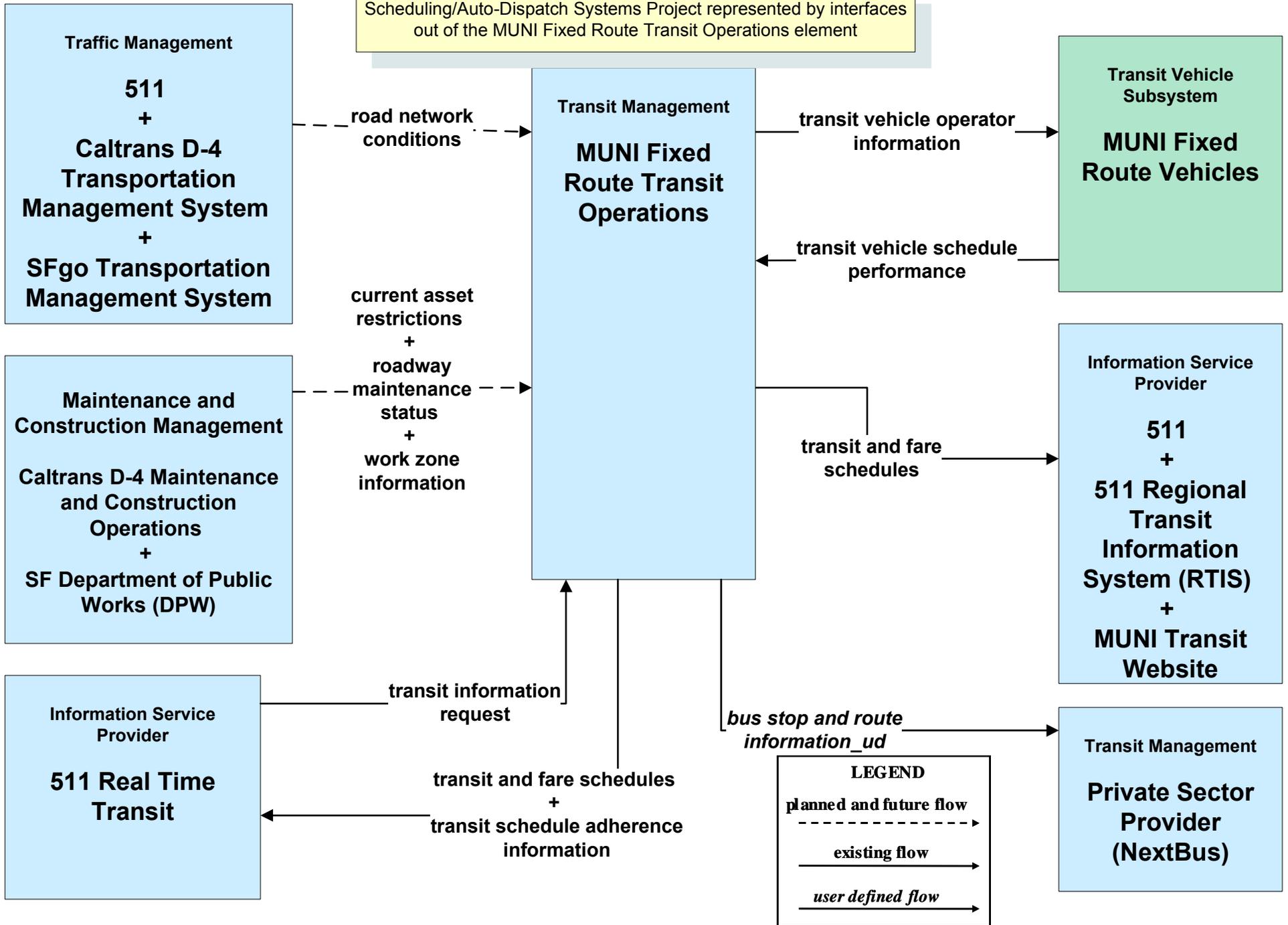
APTS02 - Transit Fixed-Route Operations Golden Gate Transit



APTS02 - Transit Fixed-Route Operations

MUNI Transit Operations

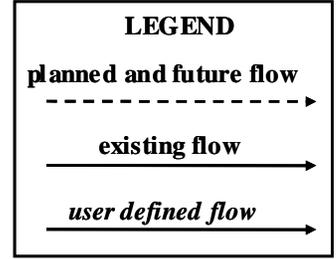
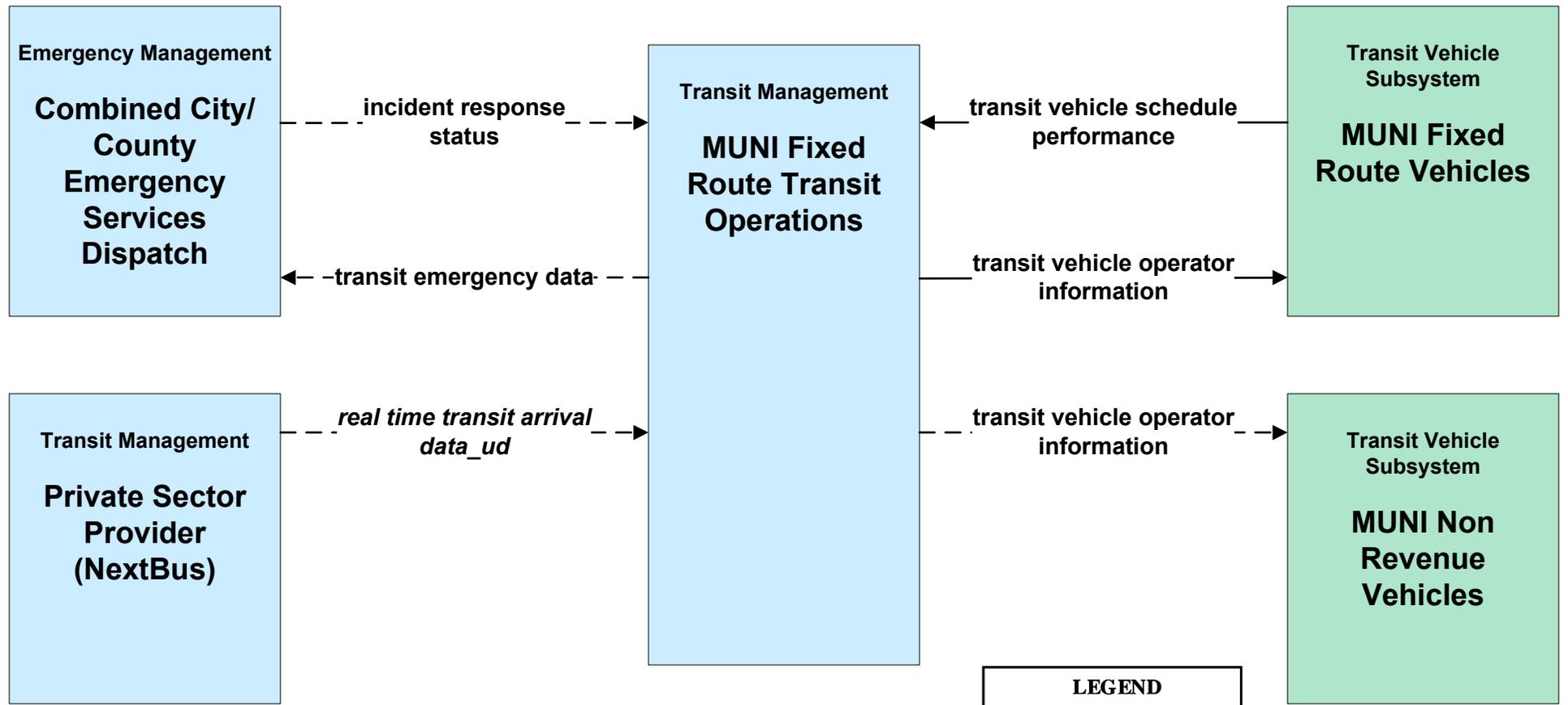
Scheduling/Auto-Dispatch Systems Project represented by interfaces out of the MUNI Fixed Route Transit Operations element



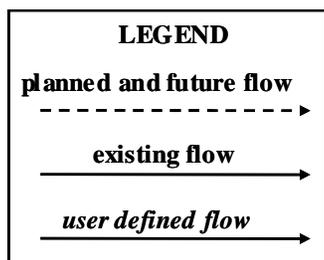
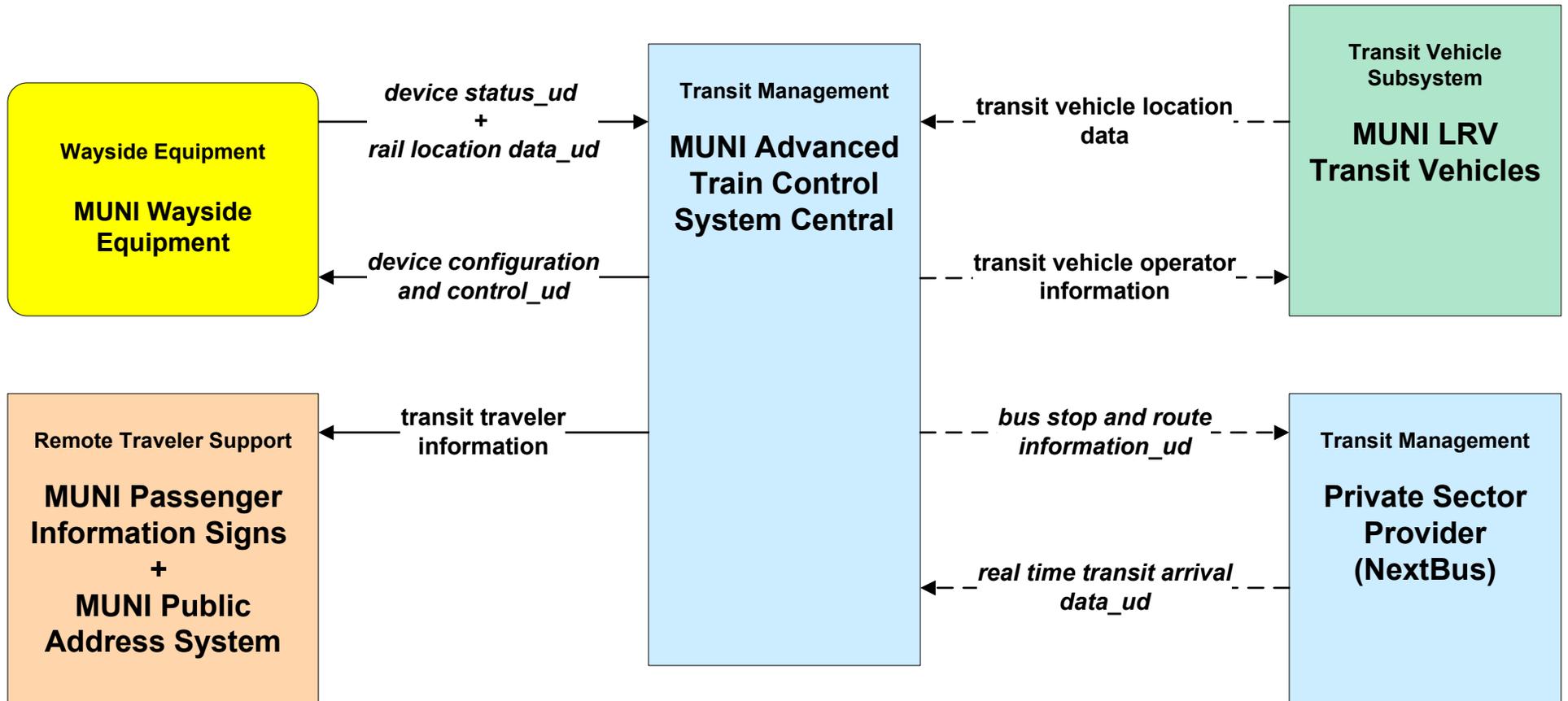
APTS02 - Transit Fixed-Route Operations

MUNI Transit Operations

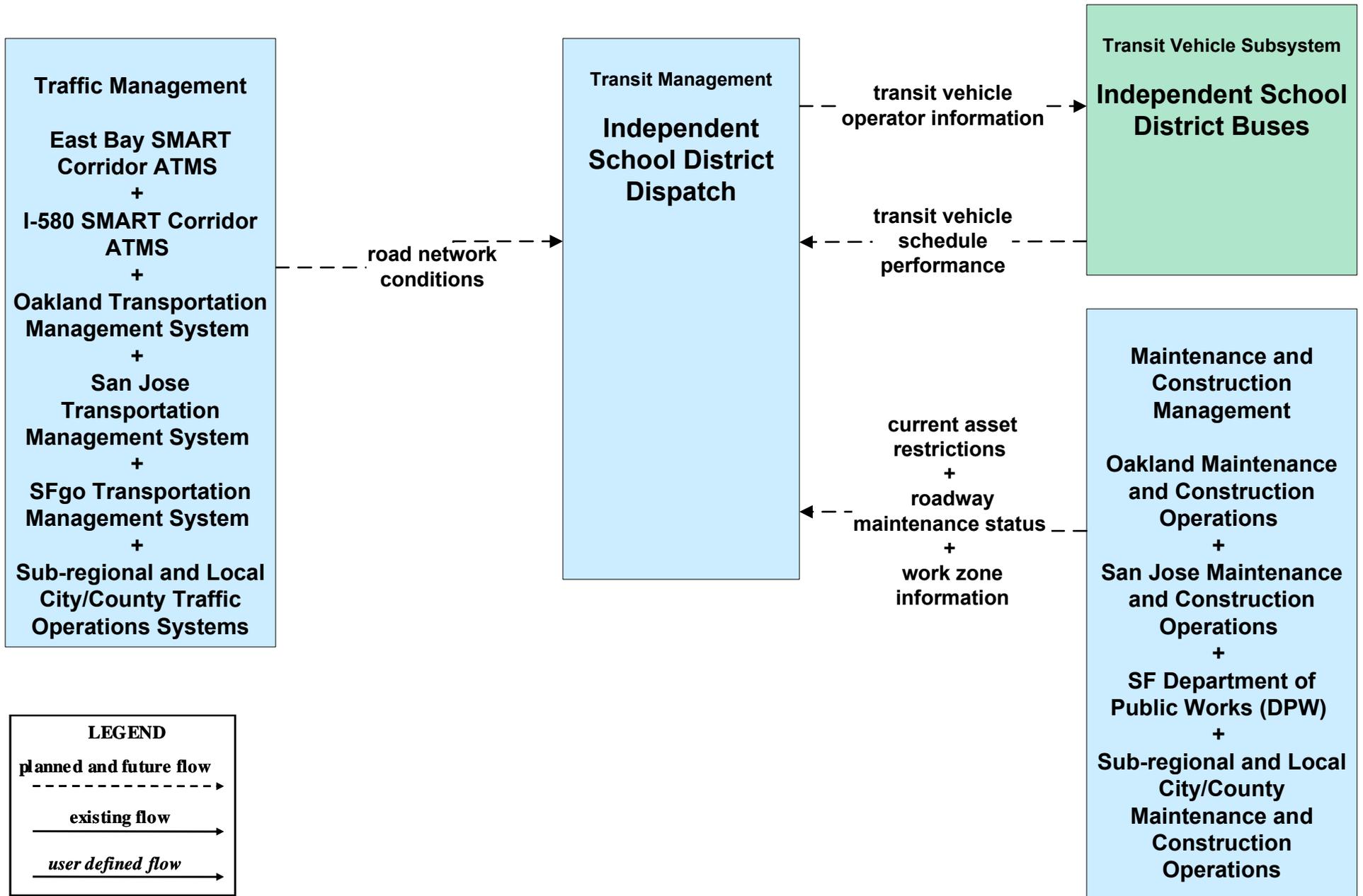
Interfaces/ Information flows associated with the *Radio Replacement, Voice-Data Communications, Computer-Aided Dispatch, integration with Automatic Vehicle Location* project



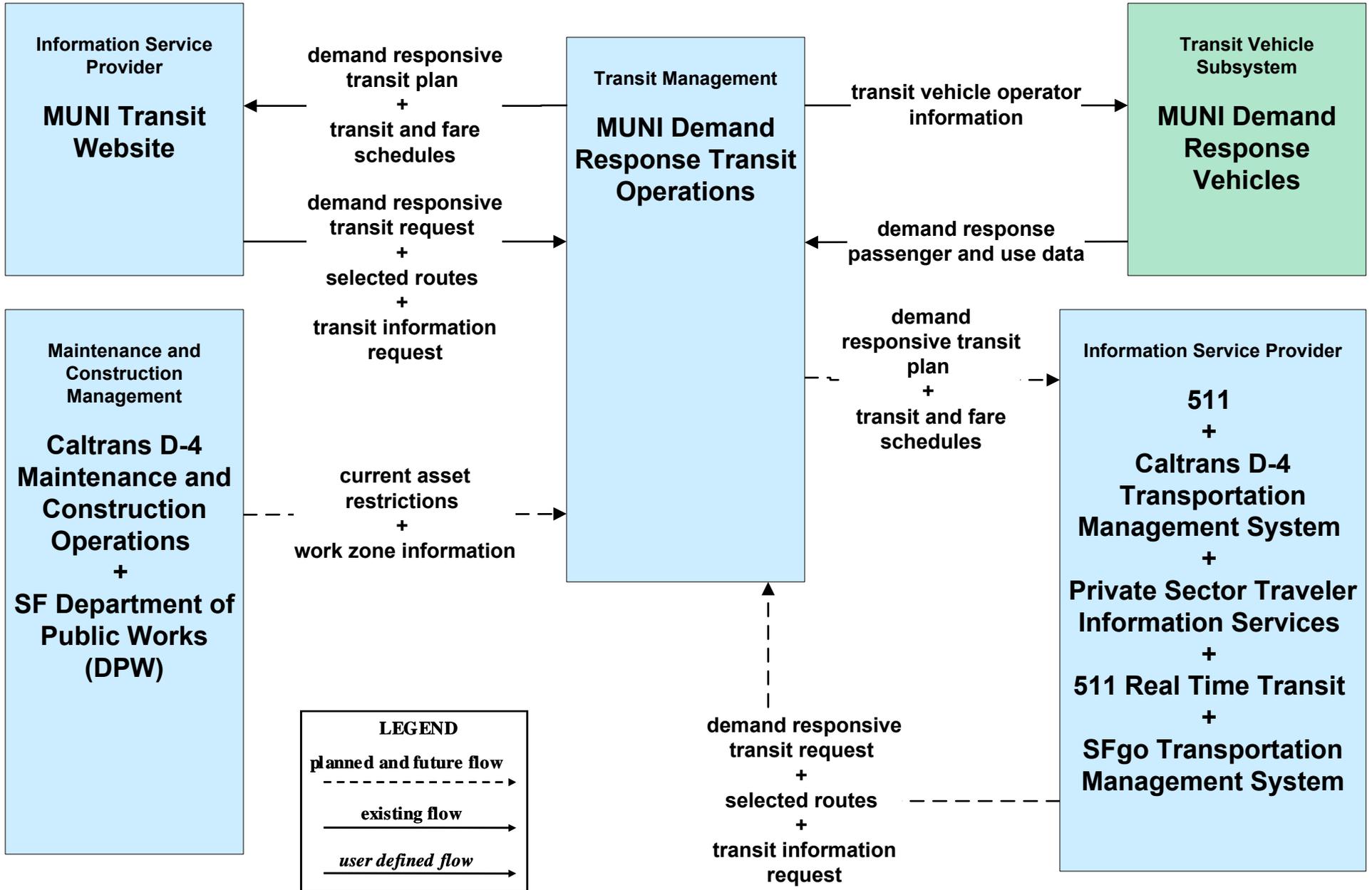
**APTS02 - Transit Fixed-Route Operations
MUNI Advanced Train Control**



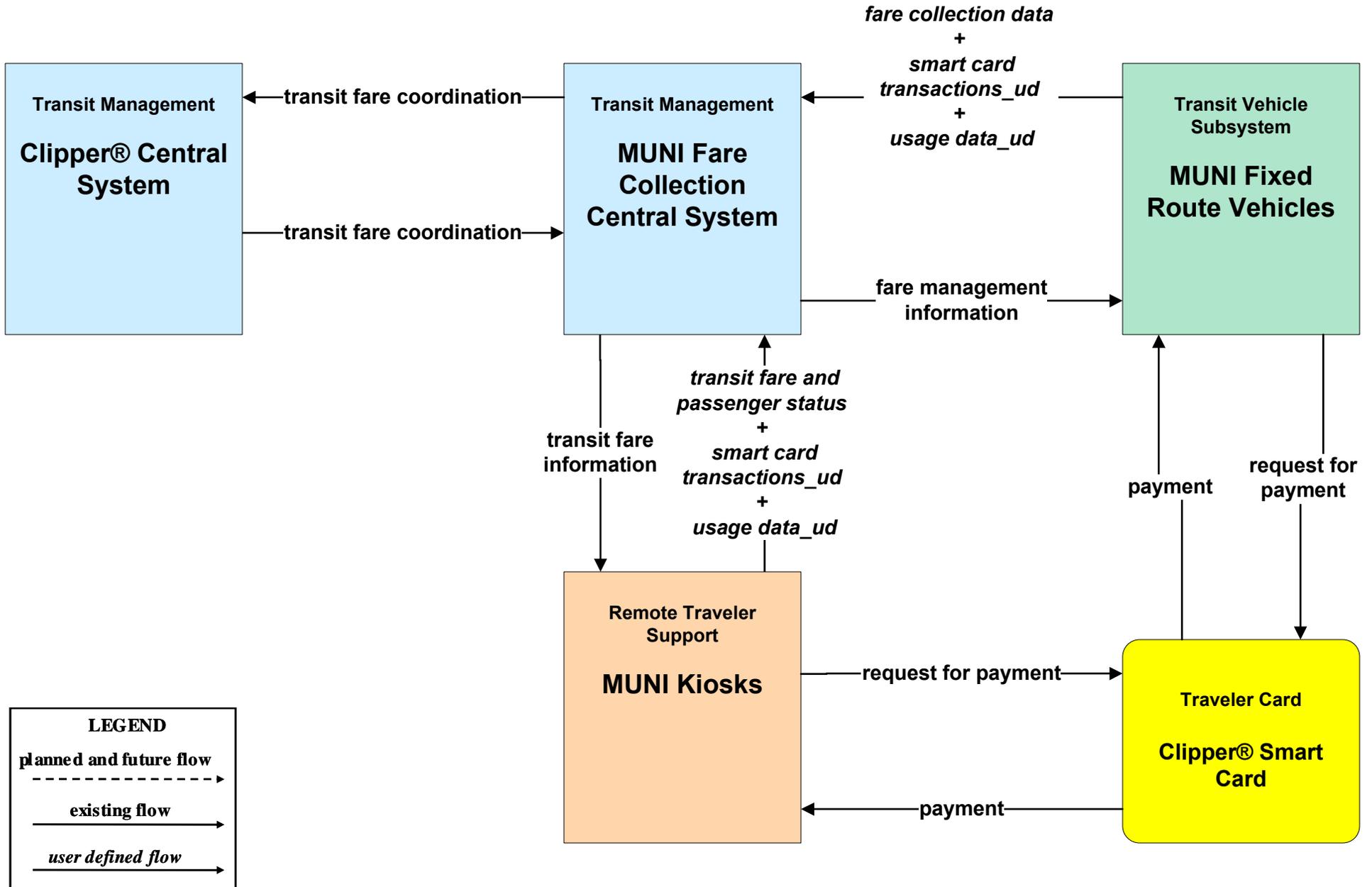
**APTS02 - Transit Fixed-Route Operations
Independent School Districts**



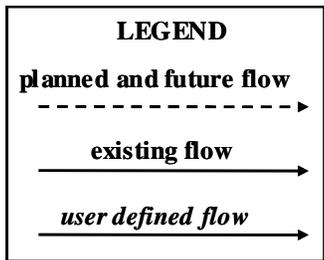
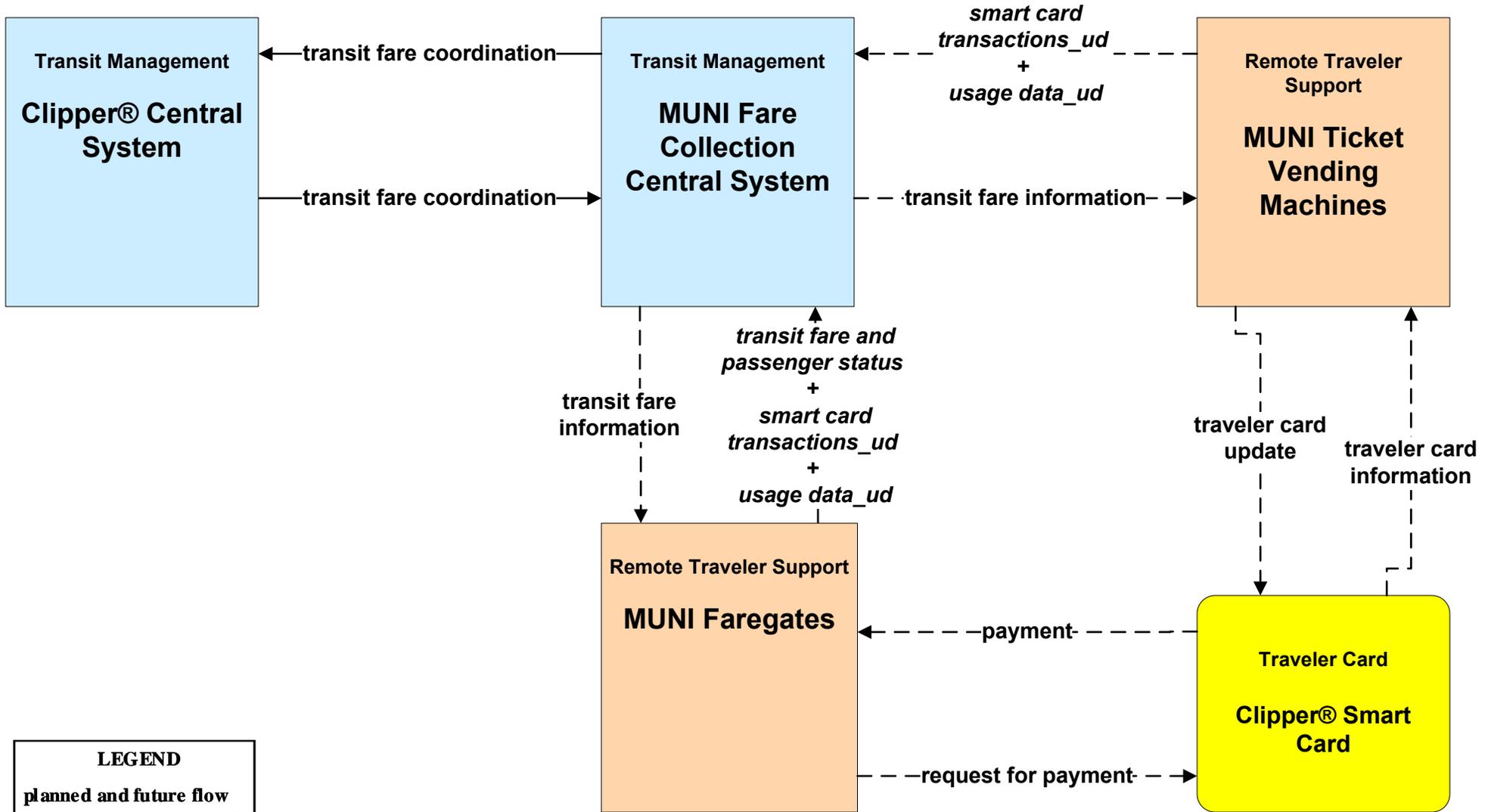
**APTS03 - Demand Response
MUNI Transit Operations**



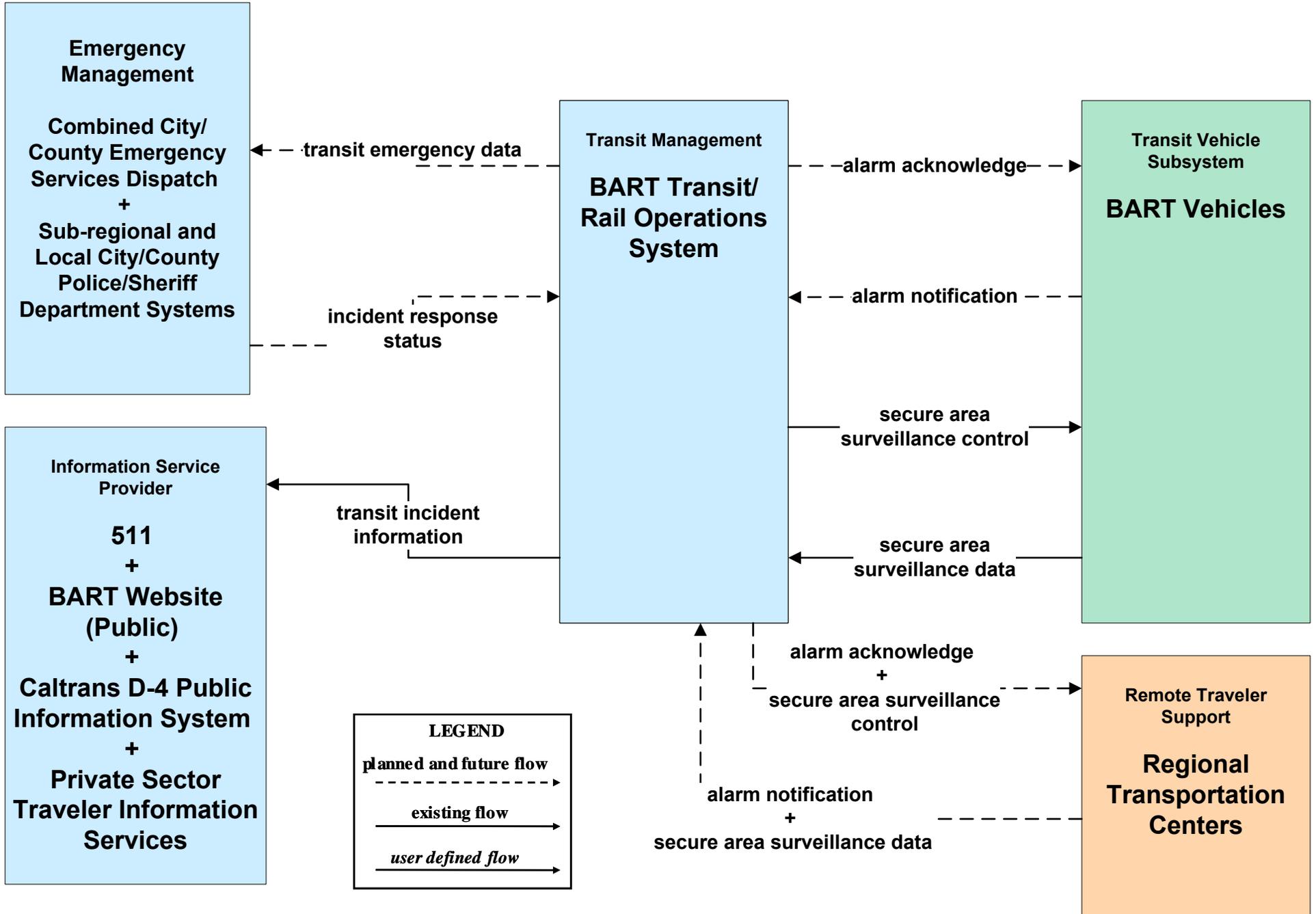
**APTS04 - Transit Passenger and Fare Management
MUNI Transit Operations (Fixed Route)**



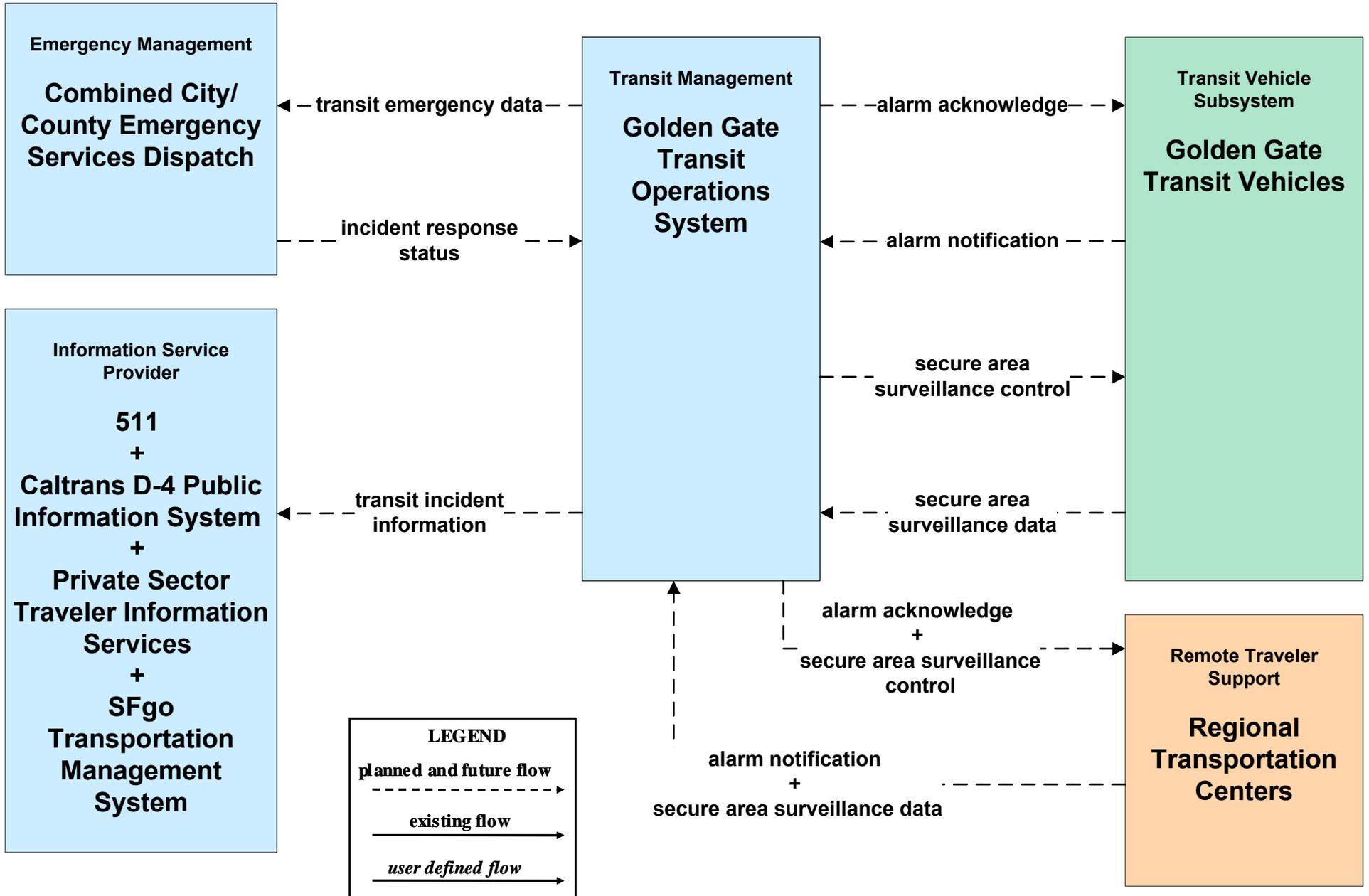
**APTS04 - Transit Passenger and Fare Management
MUNI Rail Operations**



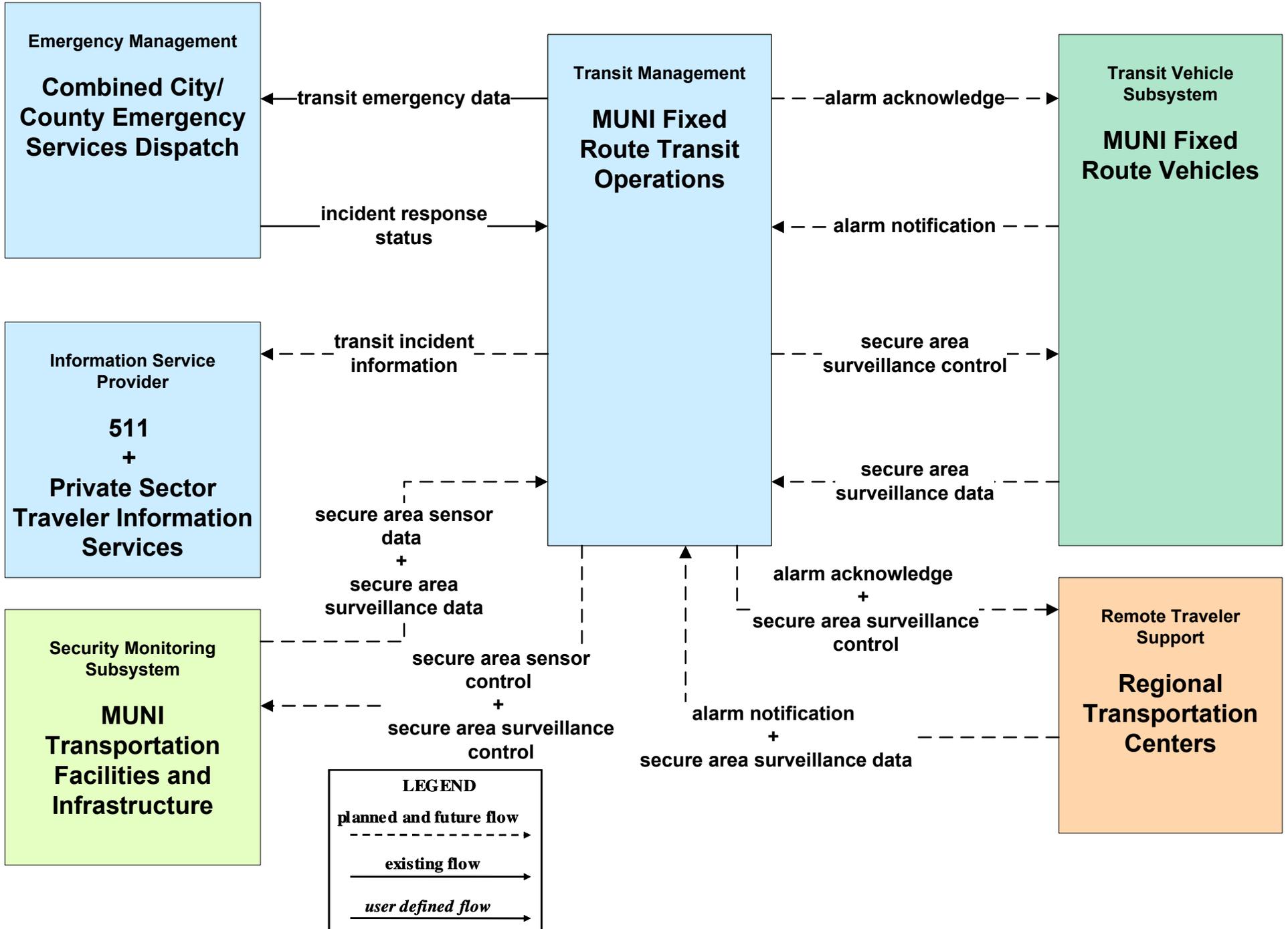
APTS05 - Transit Security BART Transit Operations



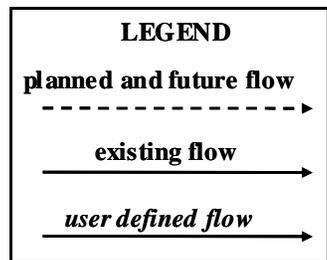
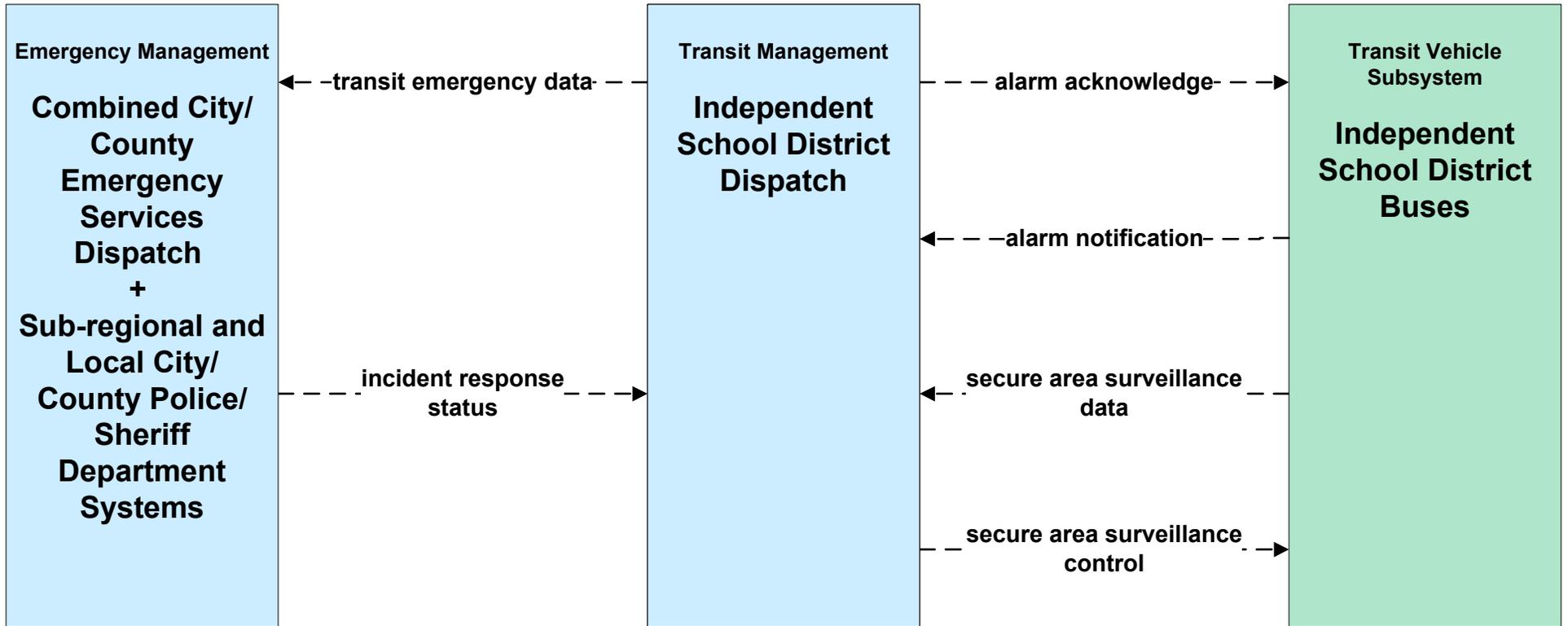
**APTS05 - Transit Security
Golden Gate Transit Operations**



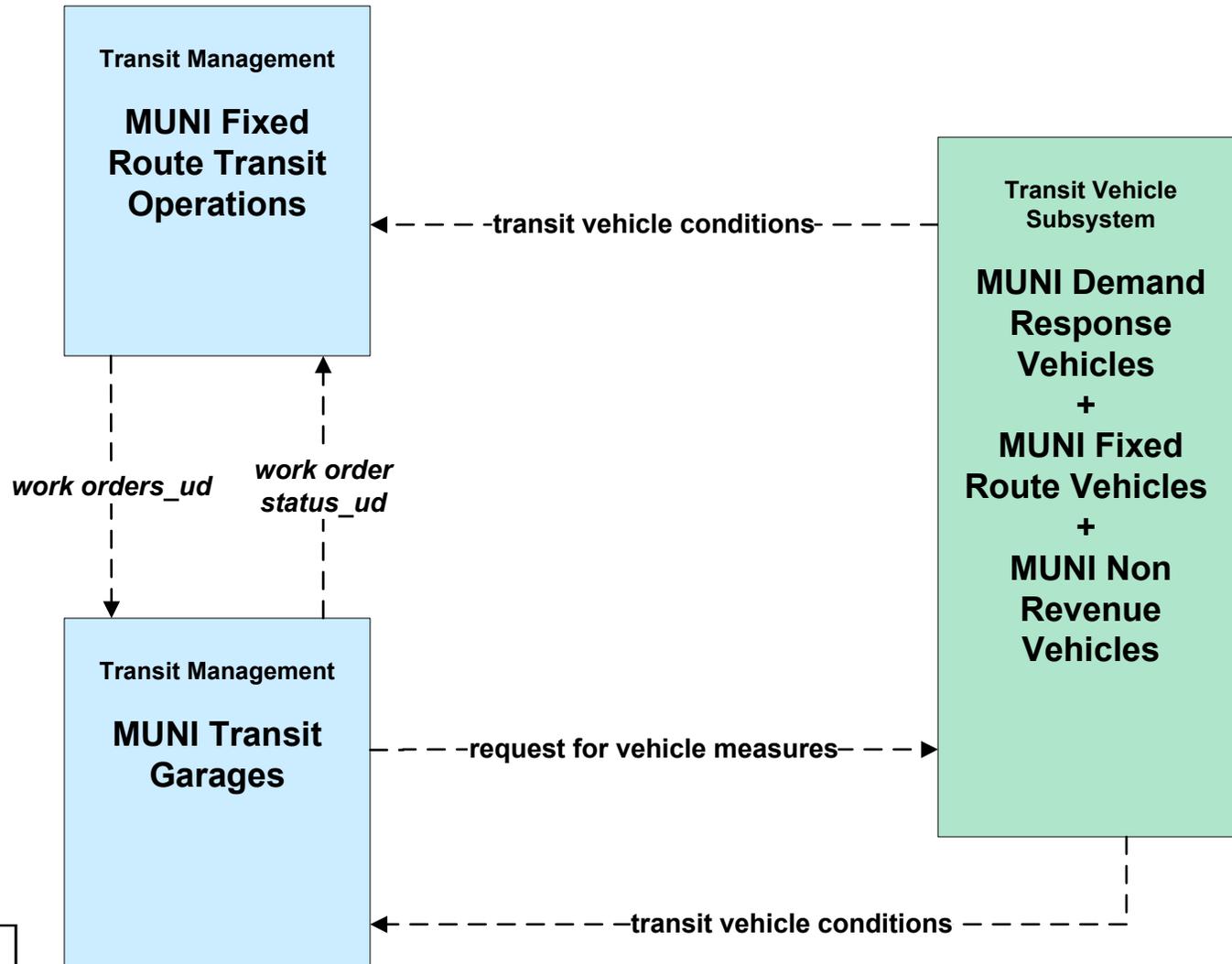
APTS05 - Transit Security MUNI Transit Operations



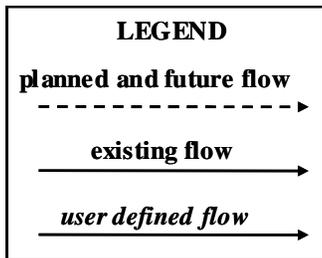
**APTS05 - Transit Security
Independent School Districts**



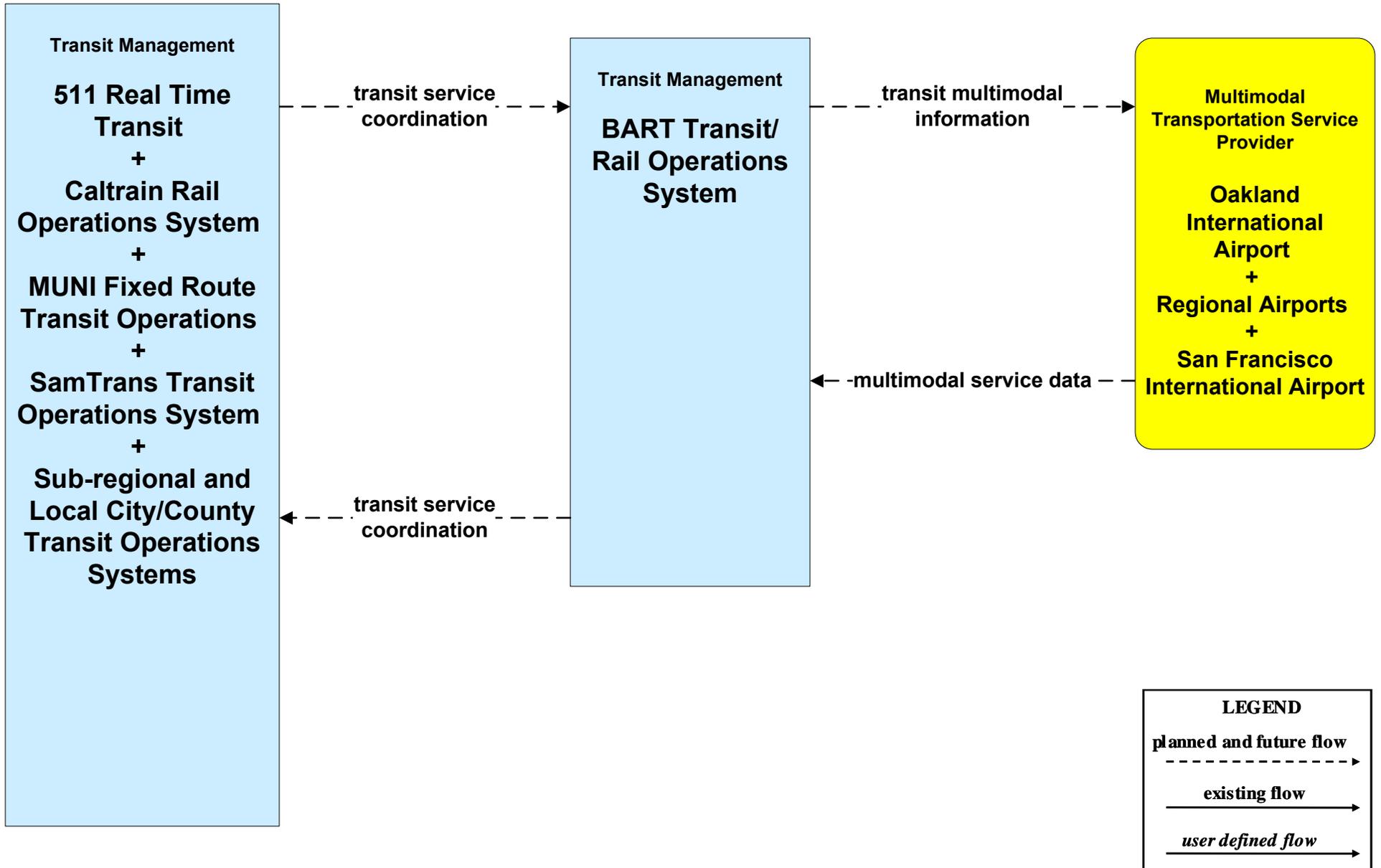
APTS06 - Transit Maintenance MUNI



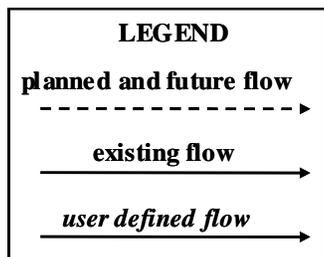
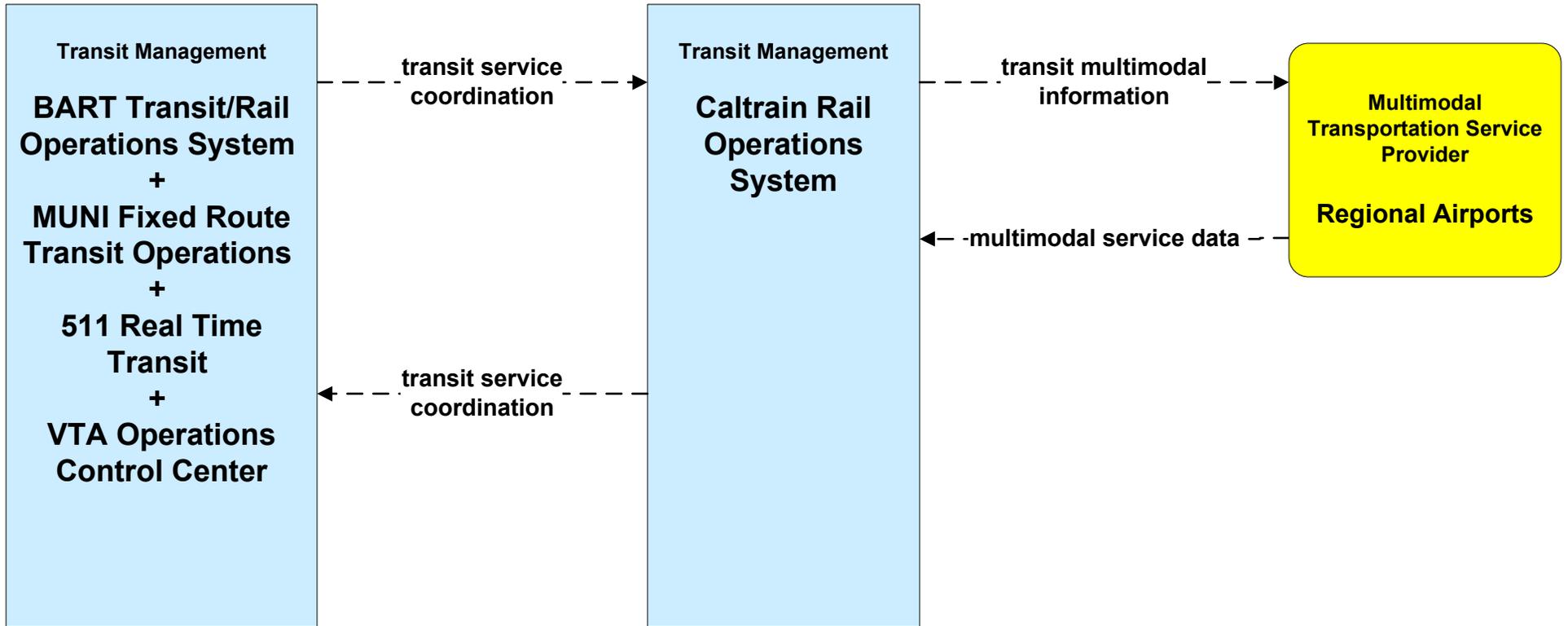
Odometer readings are sent to the Fleetwatch system



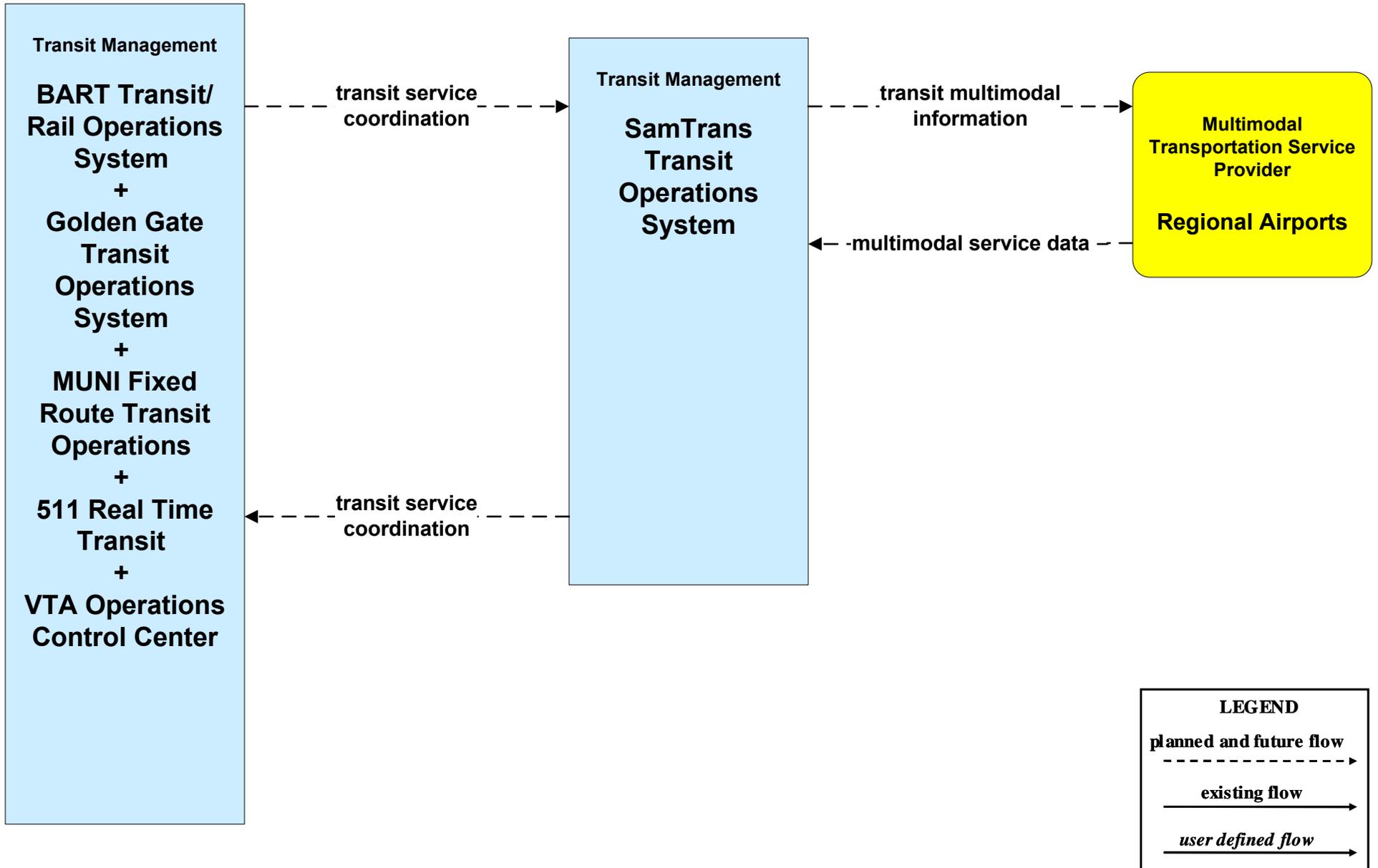
APTS07 - Multi-modal Coordination BART



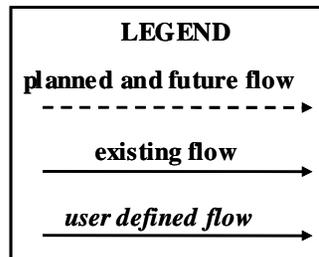
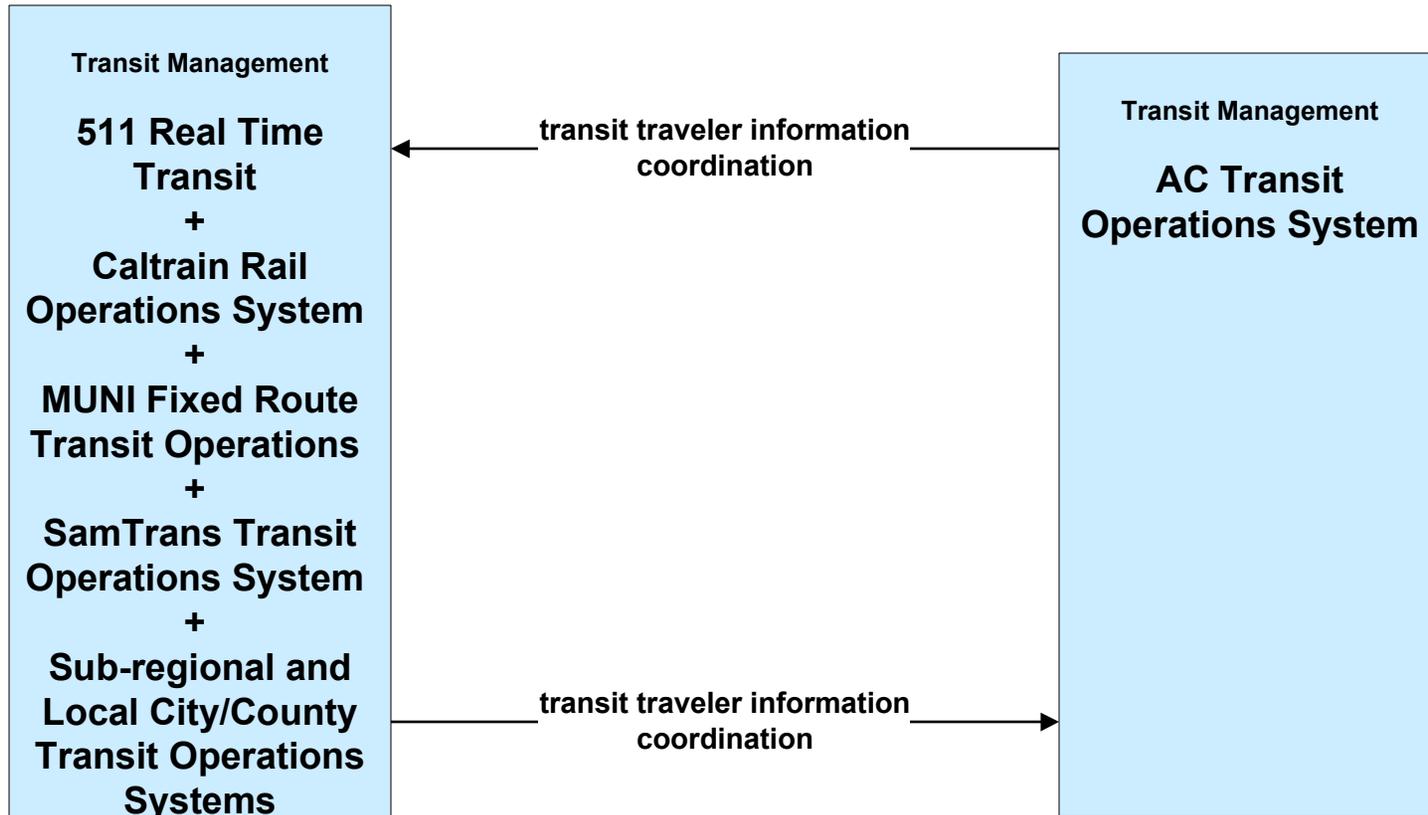
**APTS07 - Multi-modal Coordination
Caltrain**



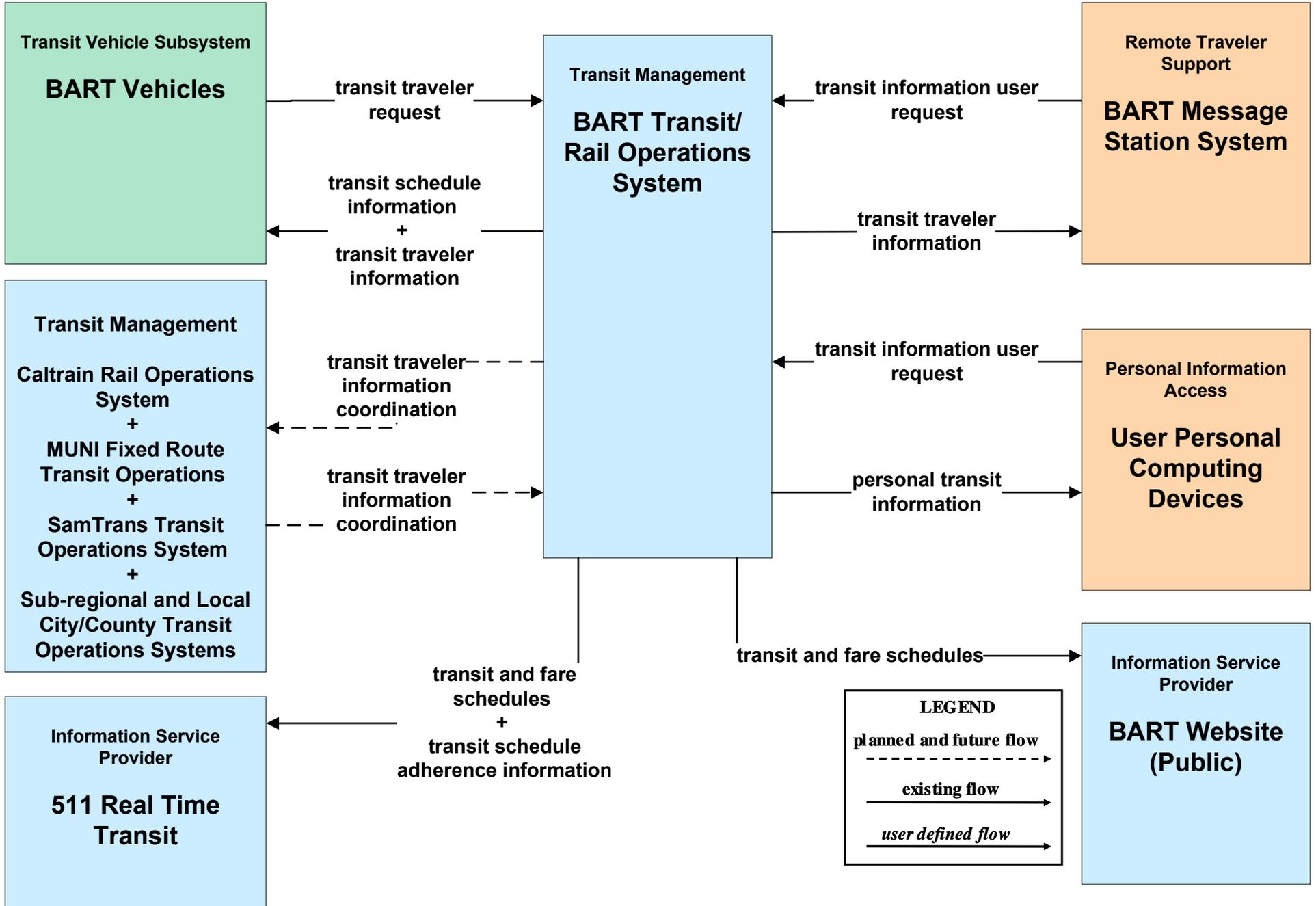
APTS07 - Multi-modal Coordination SamTrans Transit Operations



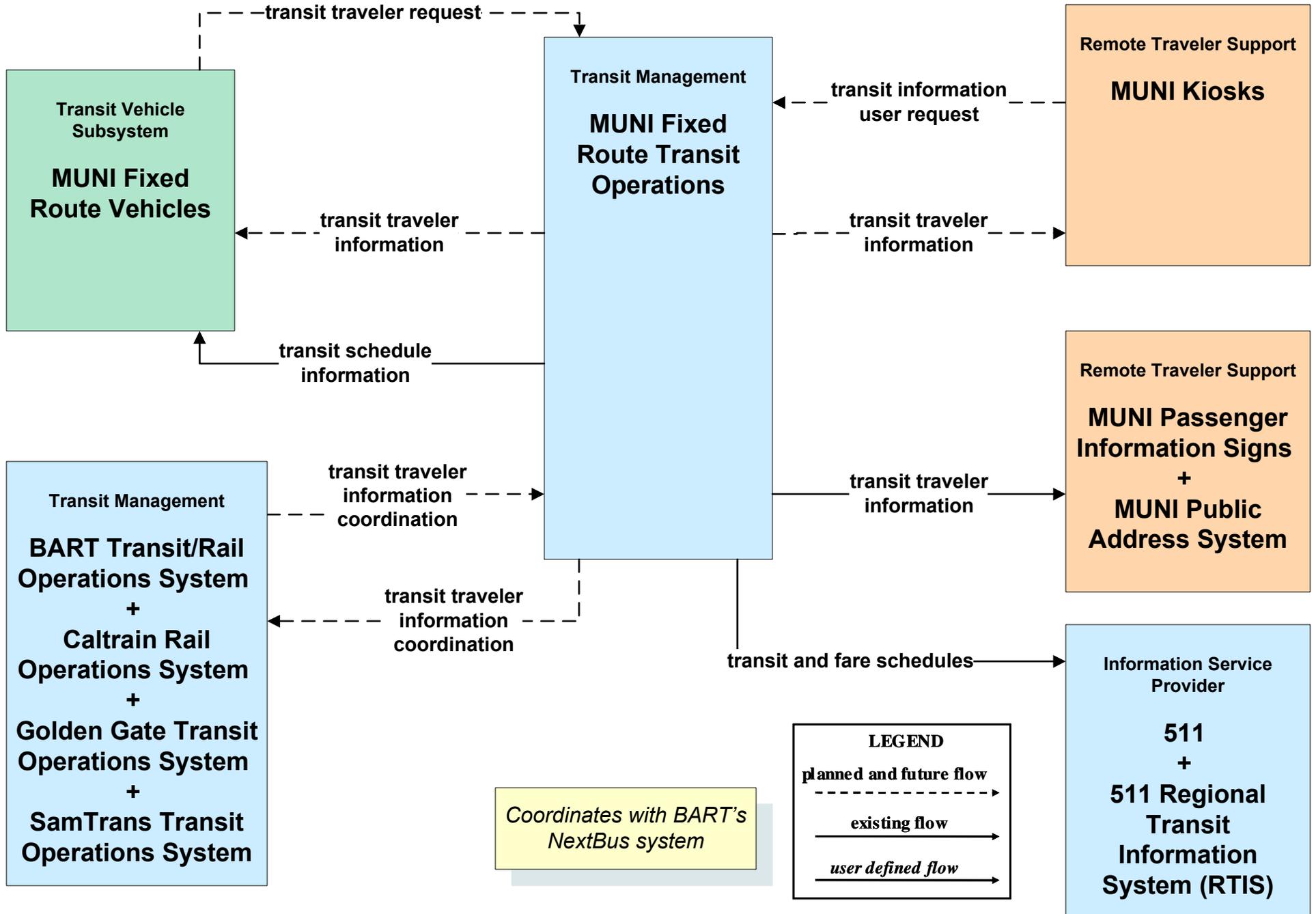
**APTS08 - Transit Traveler Information
AC Transit (2 of 2)**



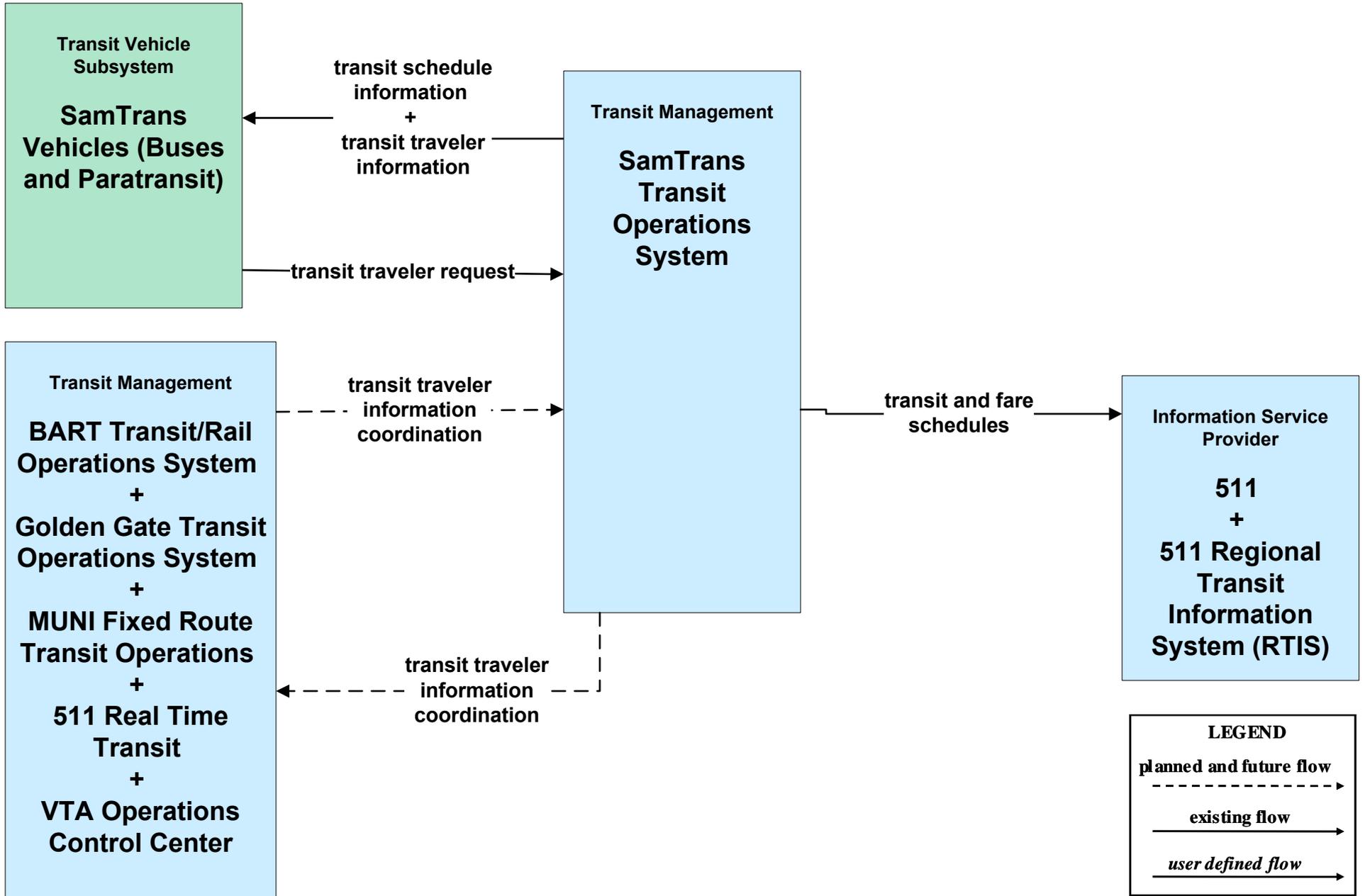
APTS08 - Transit Traveler Information BART Transit Operations



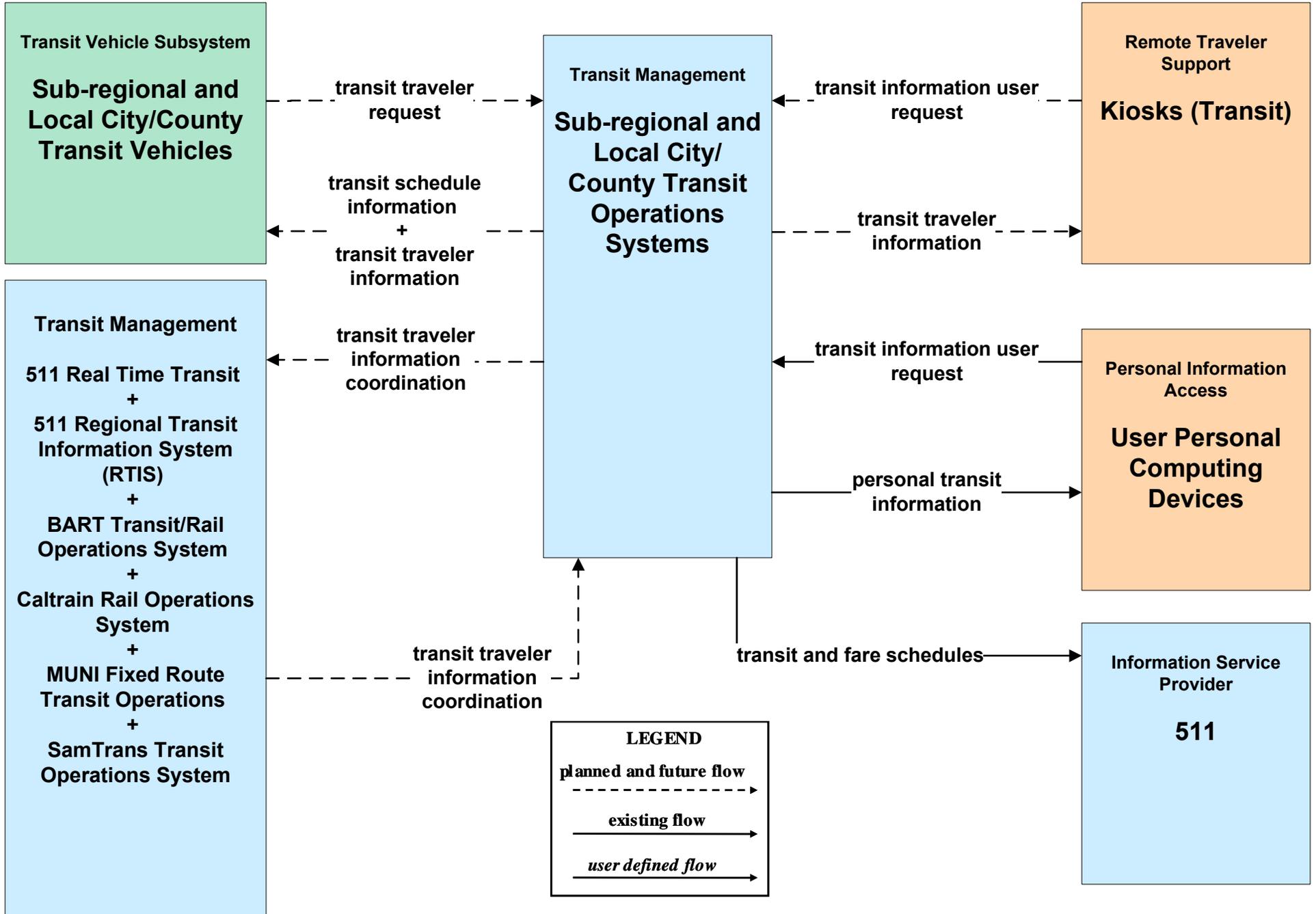
APTS08 - Transit Traveler Information MUNI Transit Operations



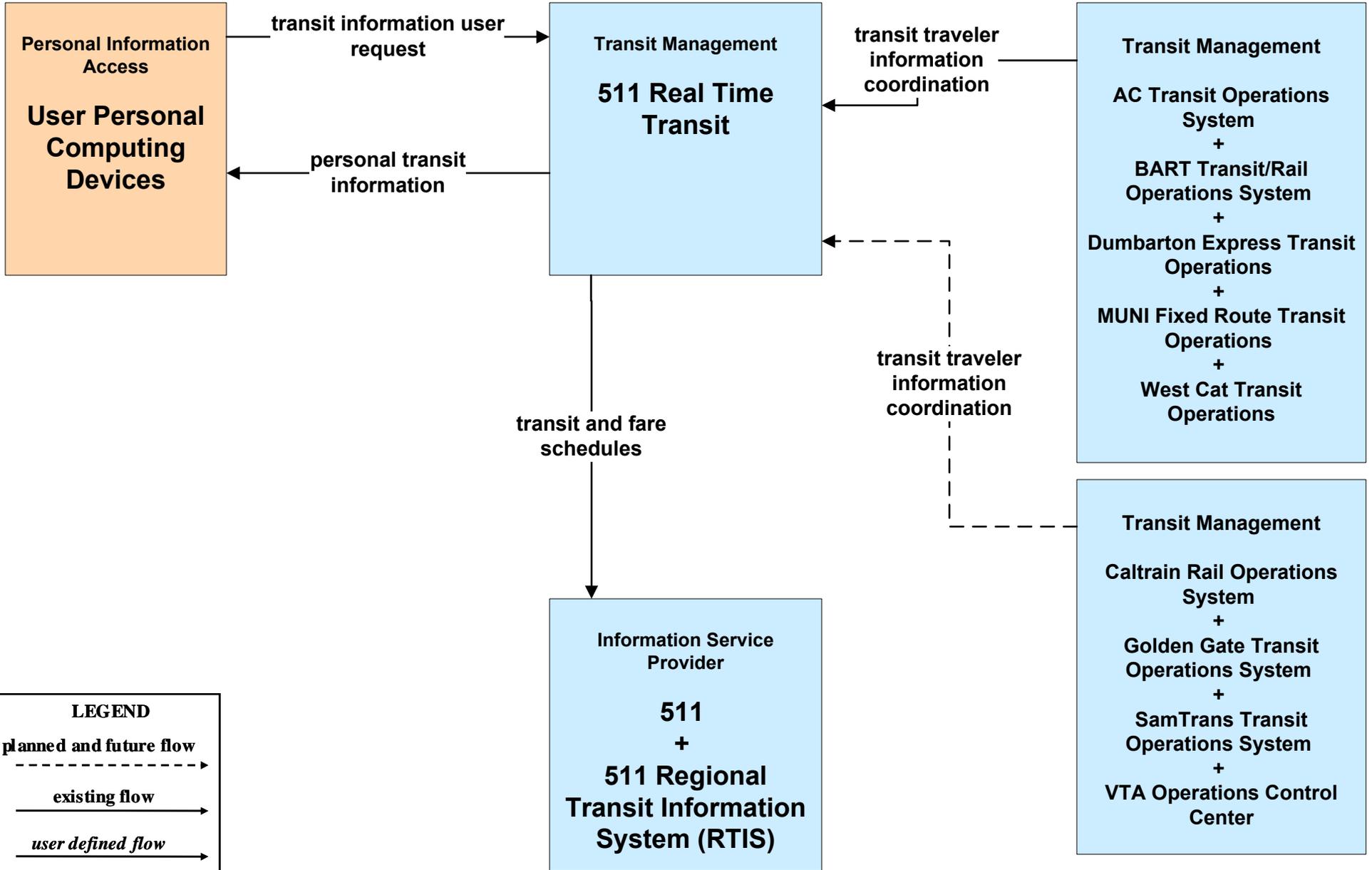
APTS08 - Transit Traveler Information SamTrans Transit Operations



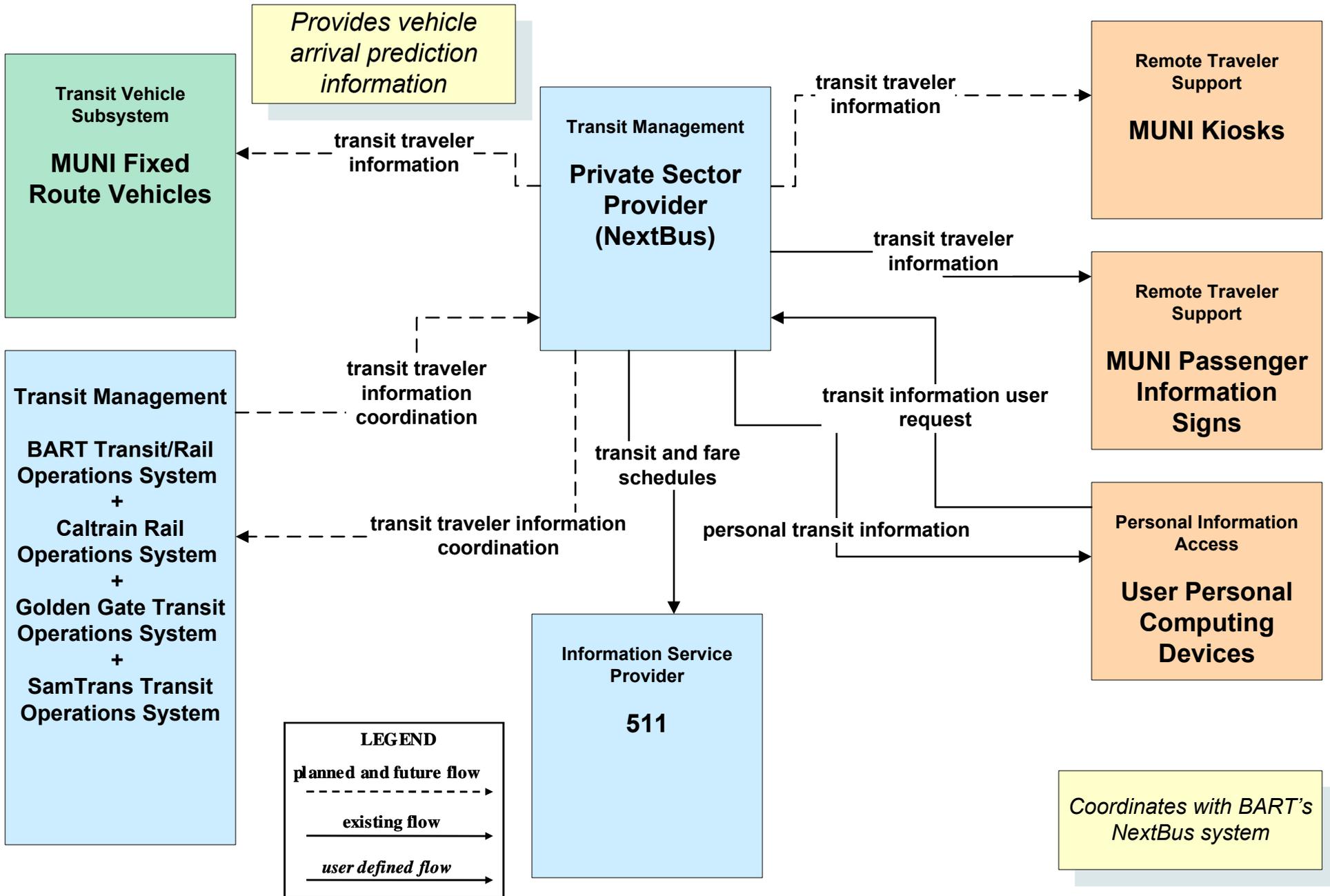
APTS08 - Transit Traveler Information Local City/County Transit Operations



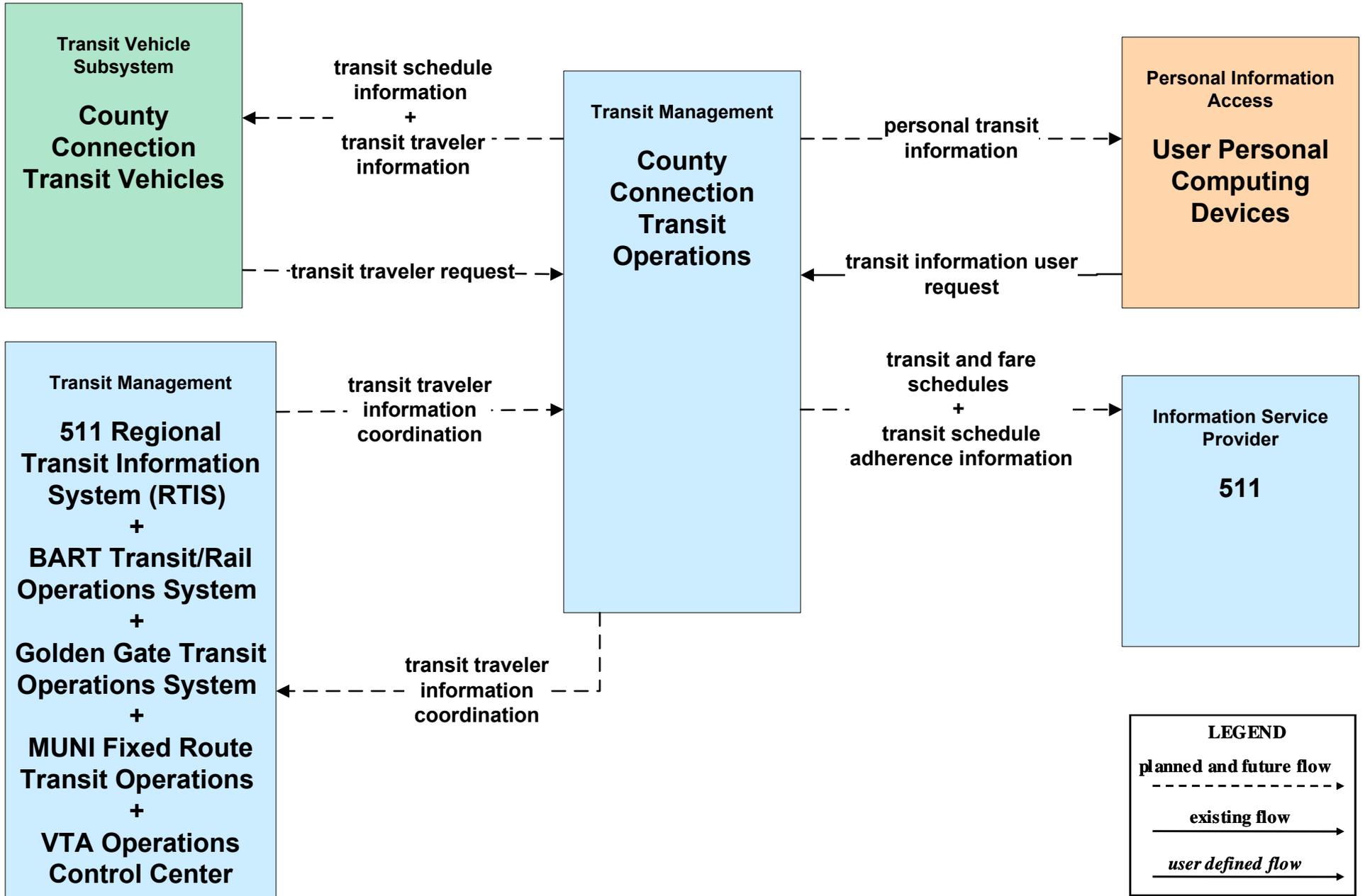
APTS08 - Transit Traveler Information 511 Real Time Transit



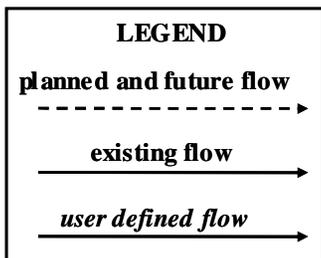
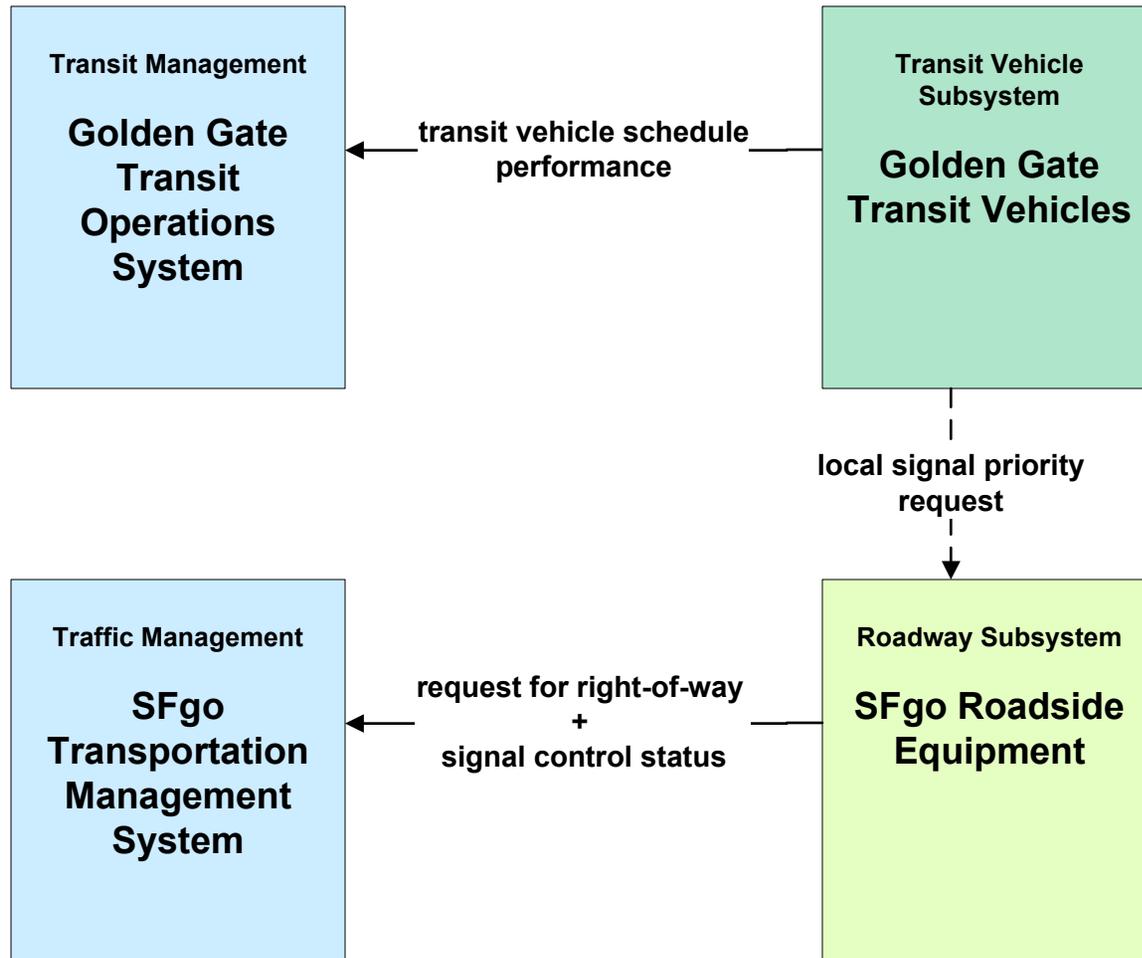
APTS08 - Transit Traveler Information MUNI Transit Operations



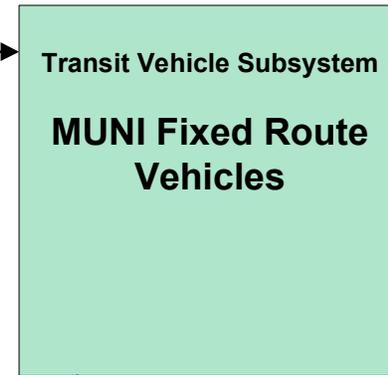
**APTS08 - Transit Traveler Information
Central Contra Costa Transit Authority-BusTime**



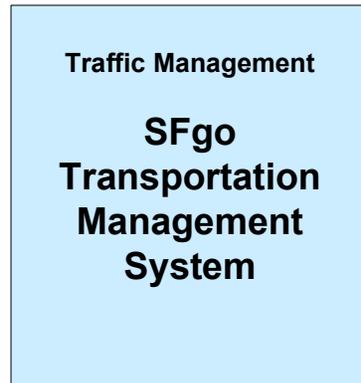
APTS09 - Transit Signal Priority Golden Gate Transit



APTS09 - Transit Signal Priority MUNI Transit Operations



Includes future interfaces for BRT projects

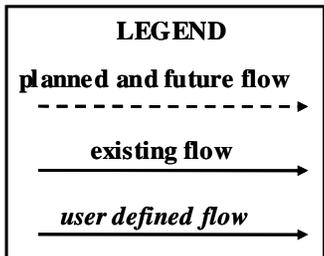


*transit signal priority
granted_ud*

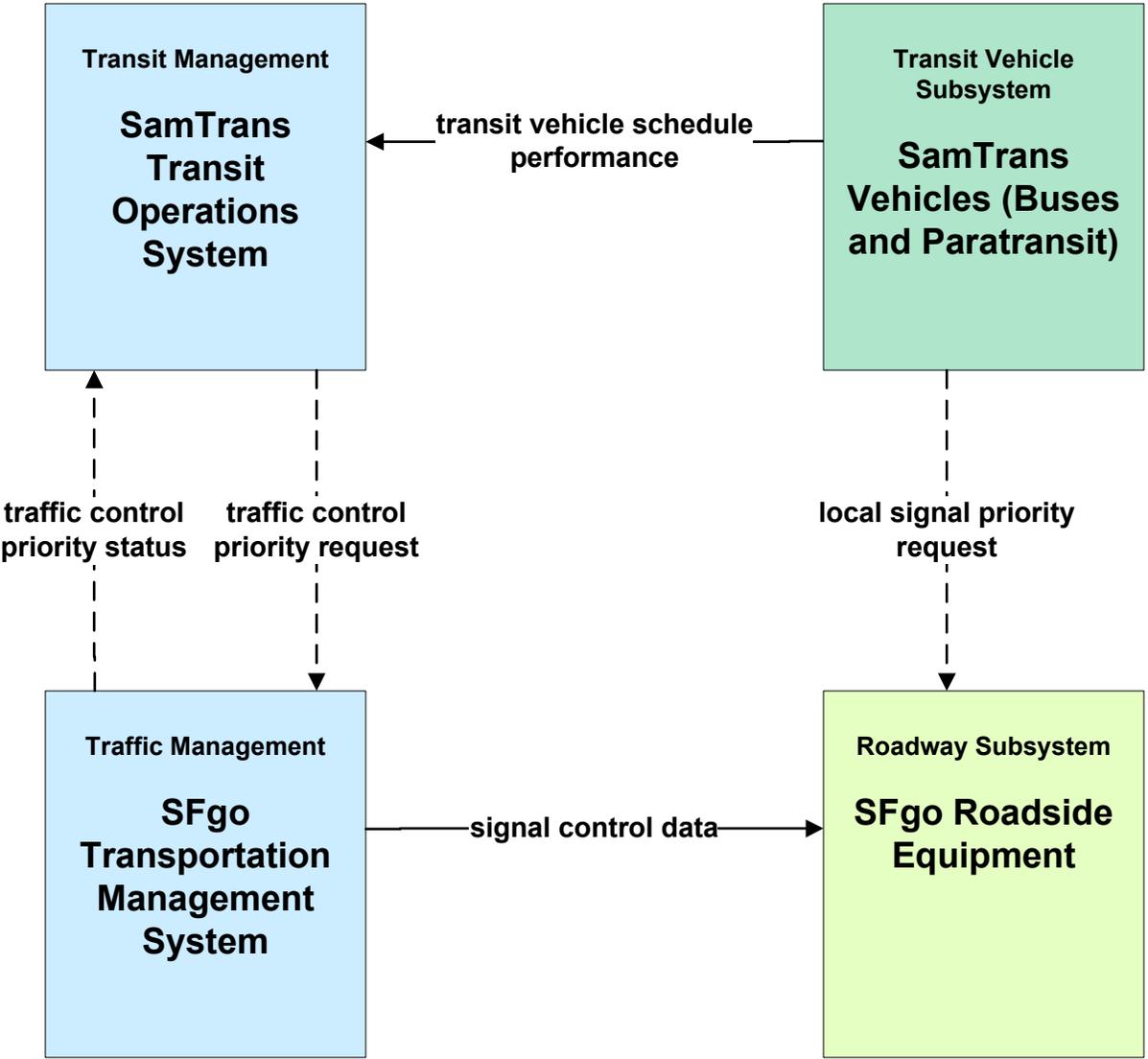
local signal priority request *transit signal
priority granted_ud*

signal control data

signal control status



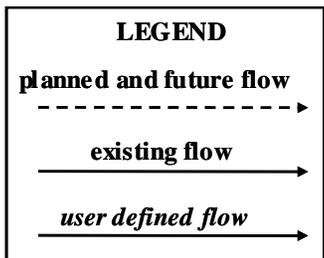
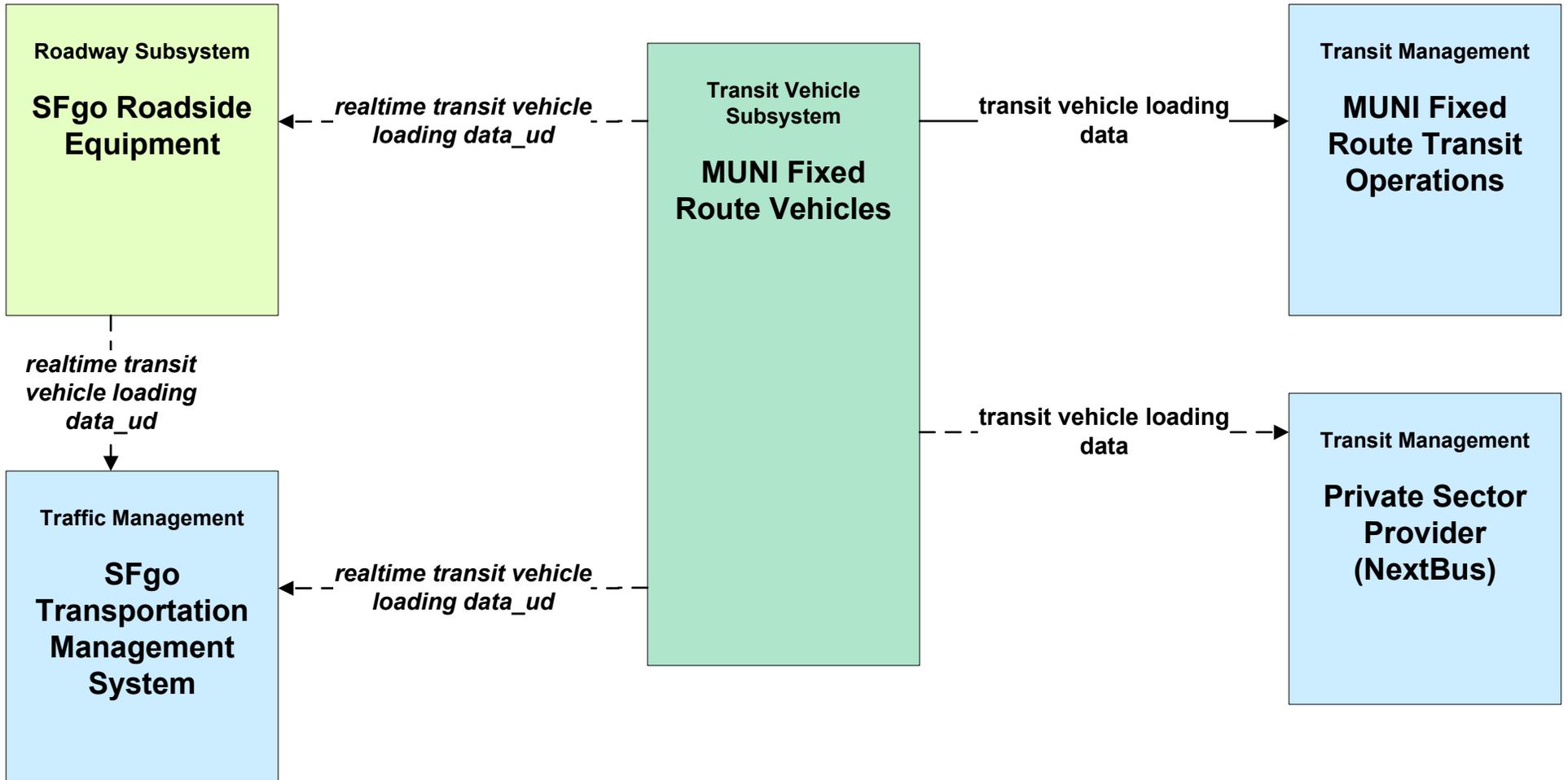
APTS09 - Transit Signal Priority
SamTrans Transit Operations (2 of 3)



LEGEND

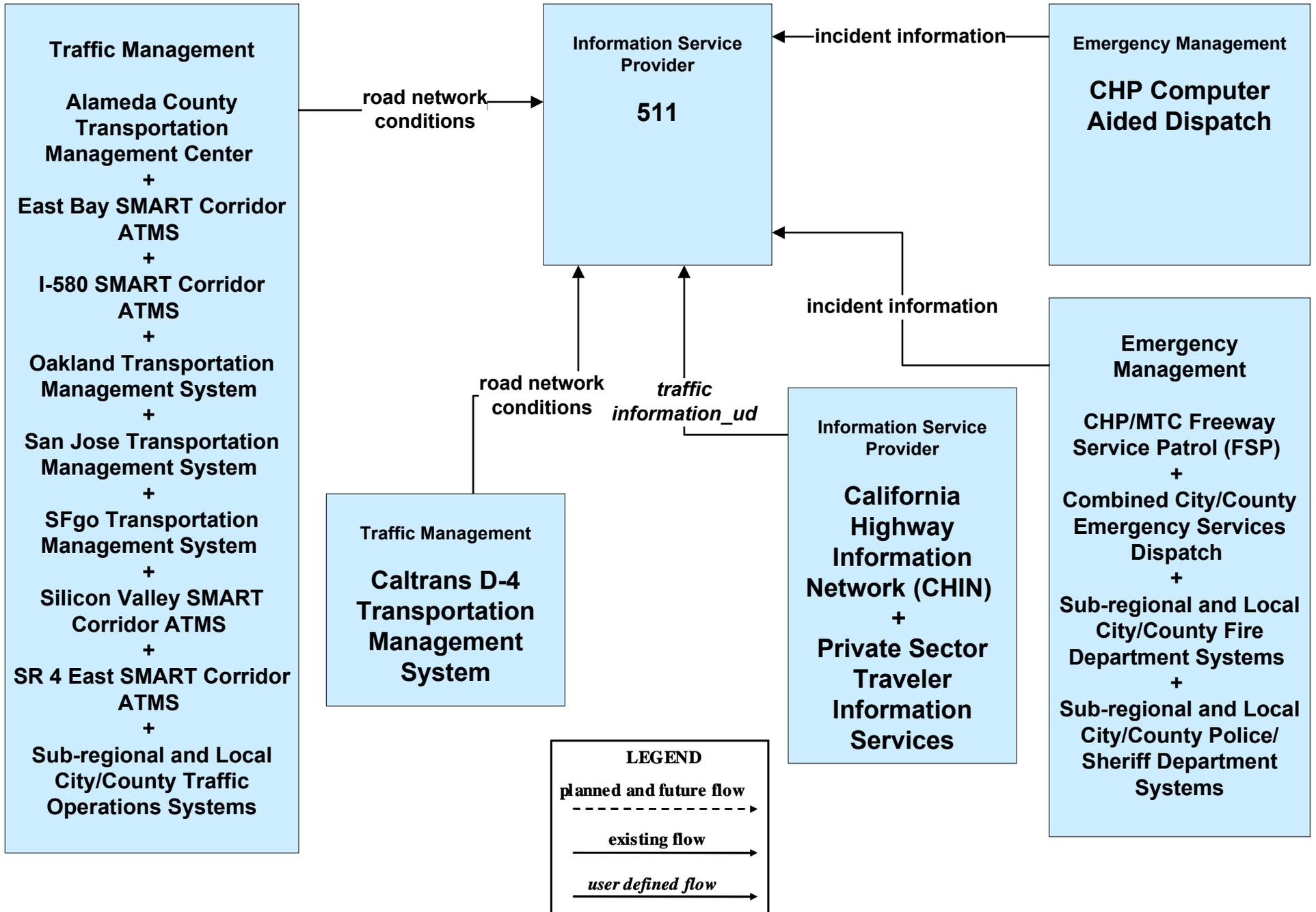
- planned and future flow**
- - - - ->
- existing flow**
—————>
- user defined flow**
—————>

APTS10 - Transit Passenger Counting MUNI



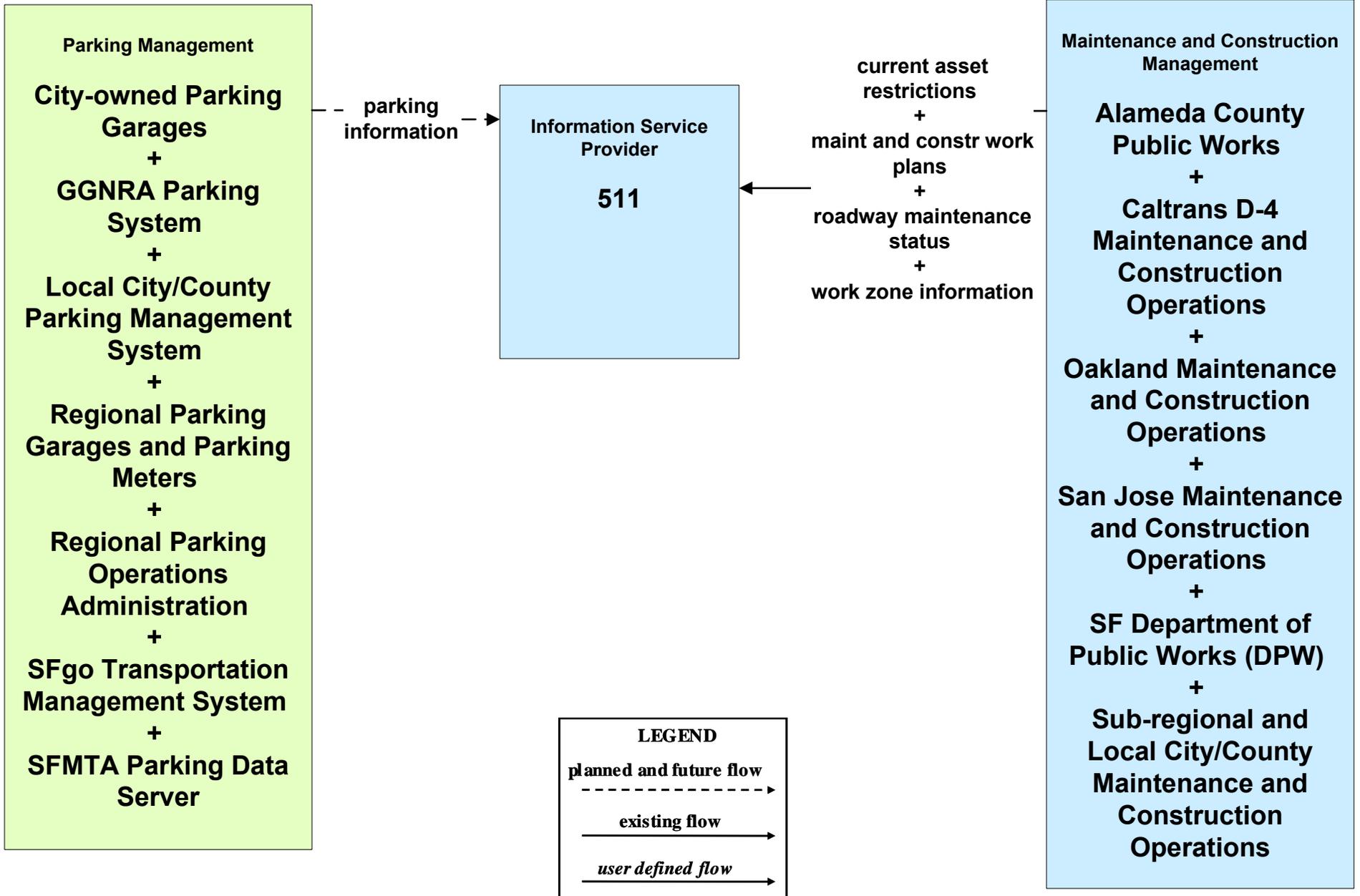
ATIS01 - Broadcast Traveler Information

511 (Inputs) (1 of 2)

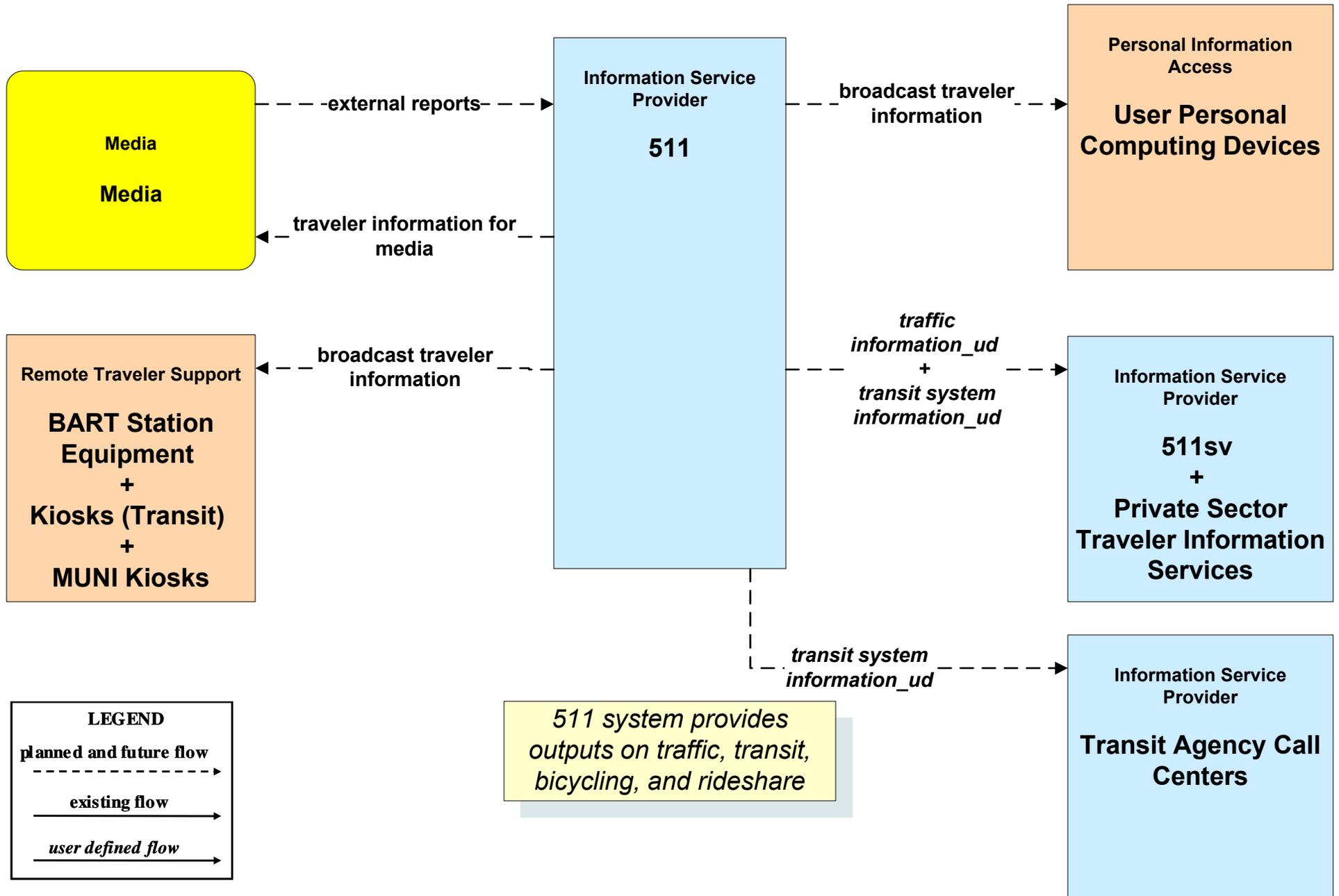


ATIS01 - Broadcast Traveler Information

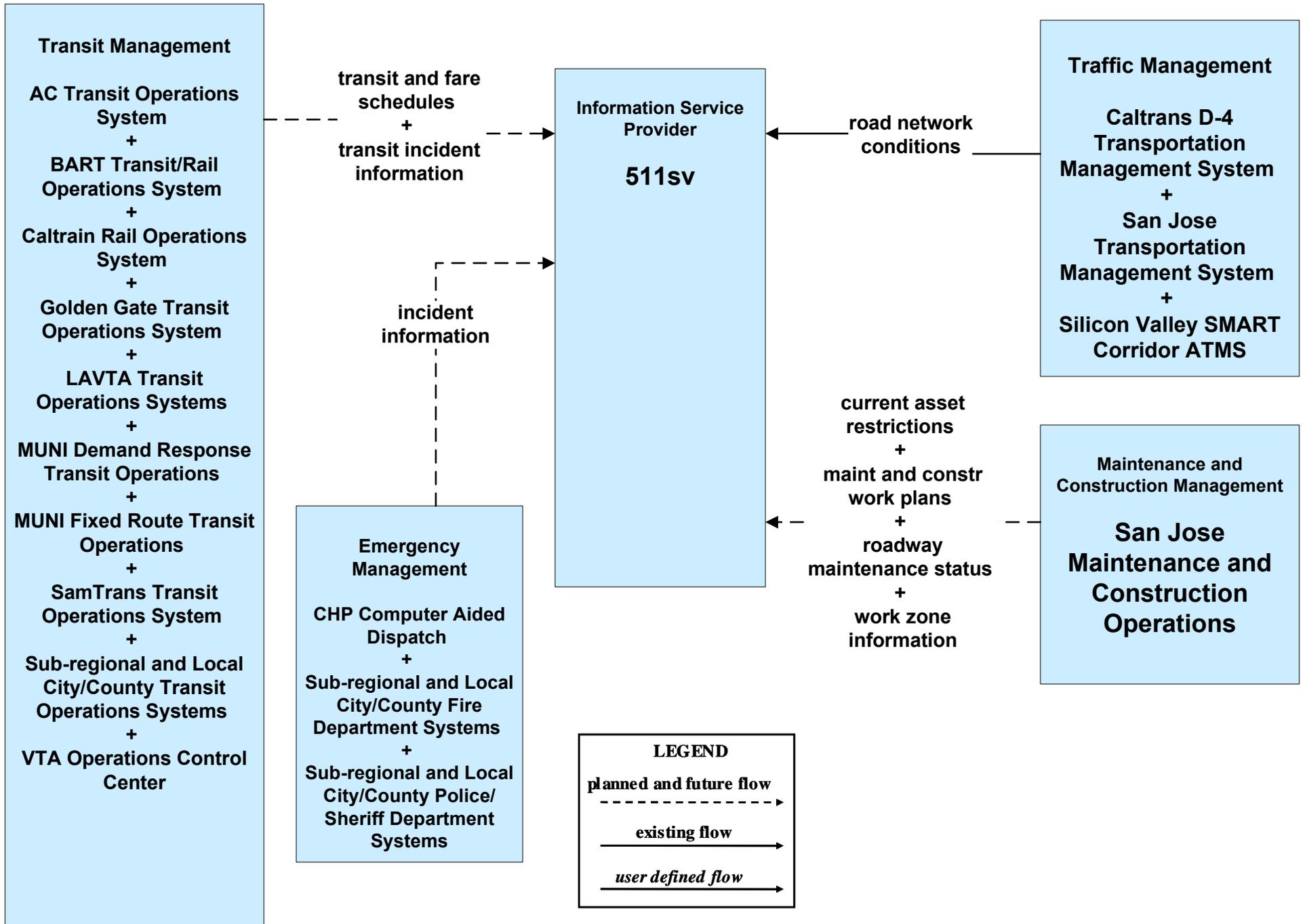
511 (Inputs) (2 of 2)



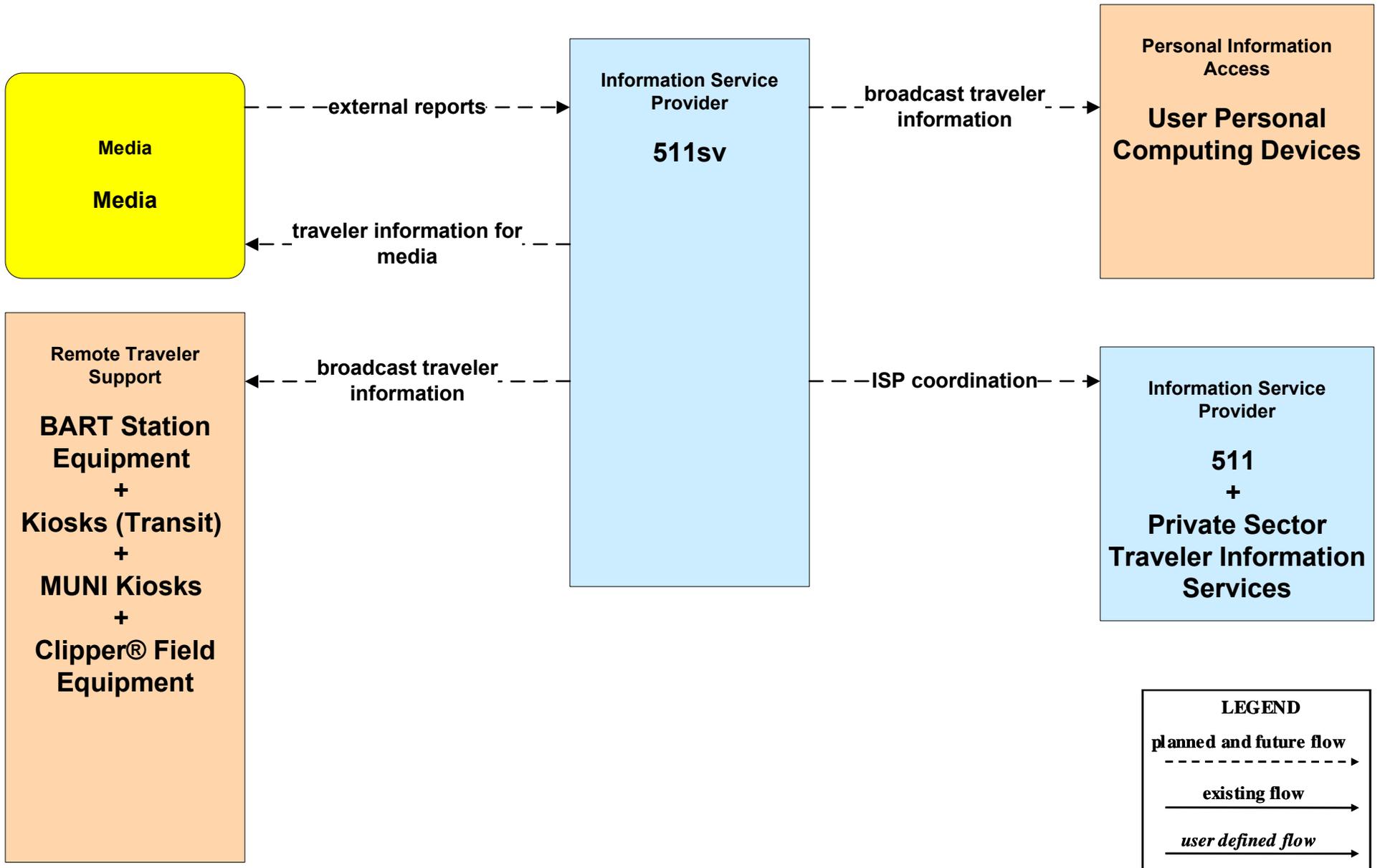
ATIS01 - Broadcast Traveler Information 511 (Outputs)



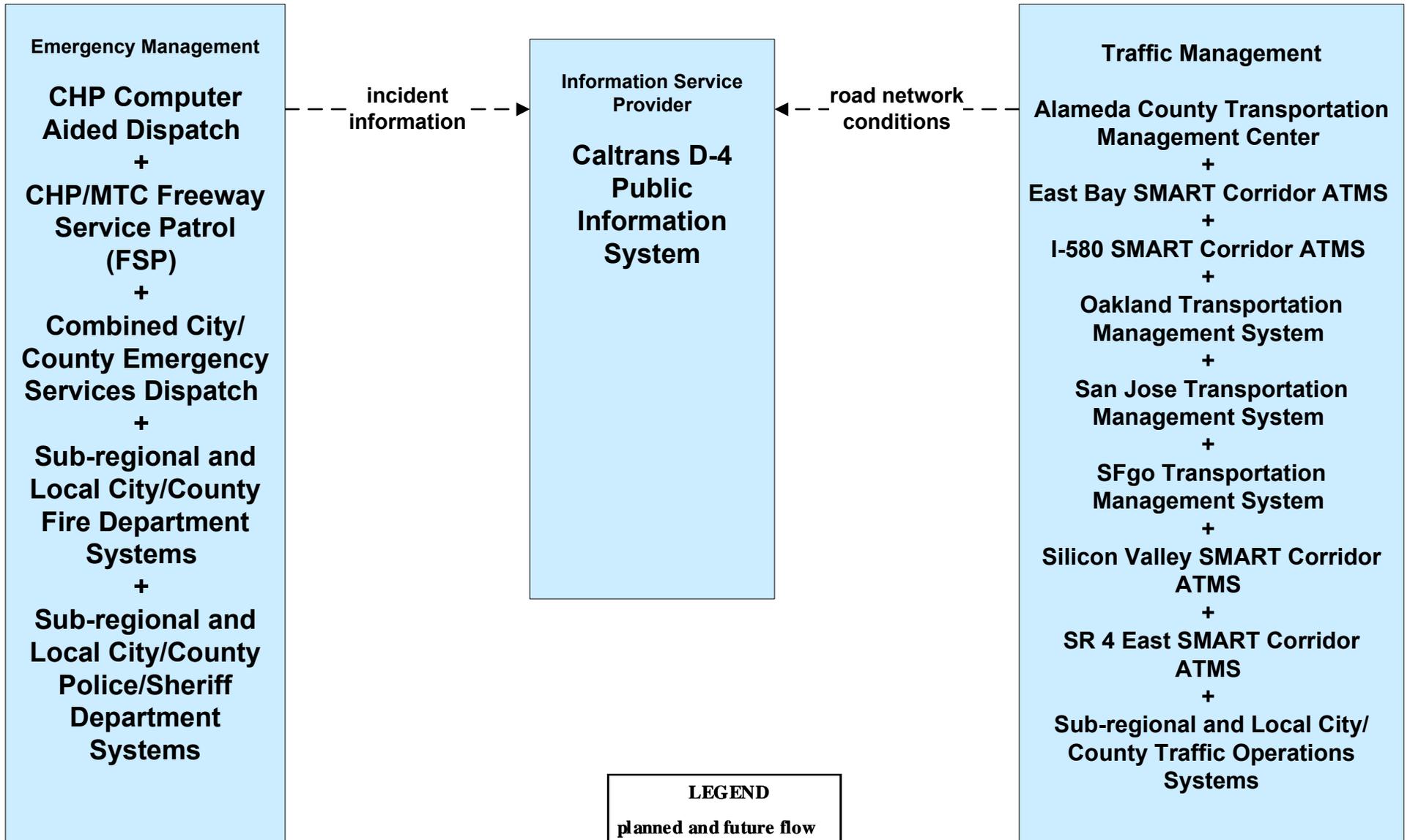
ATIS01 - Broadcast Traveler Information 511sv.org (Inputs)



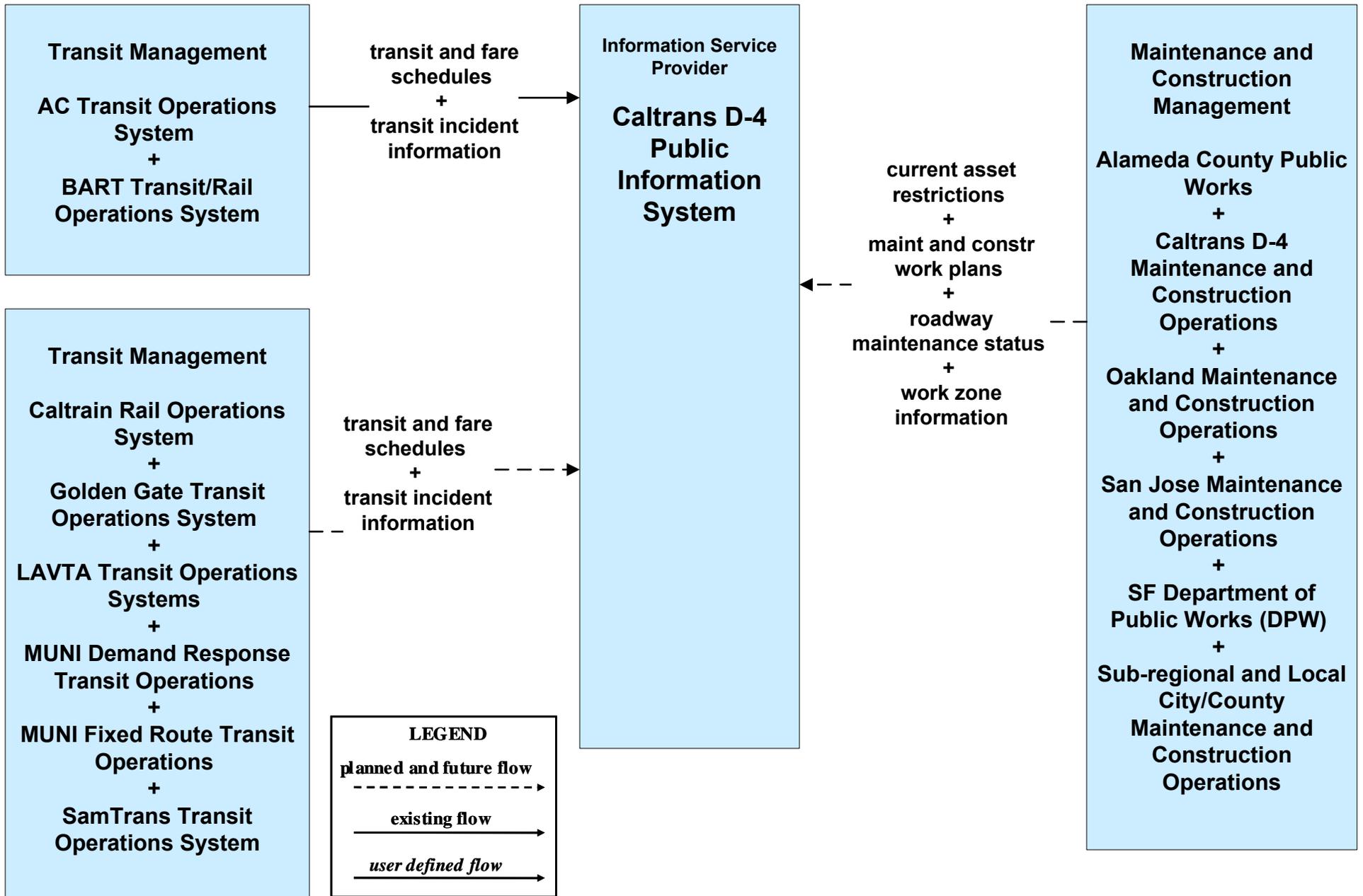
**ATIS01 - Broadcast Traveler Information
511sv.org (Outputs)**



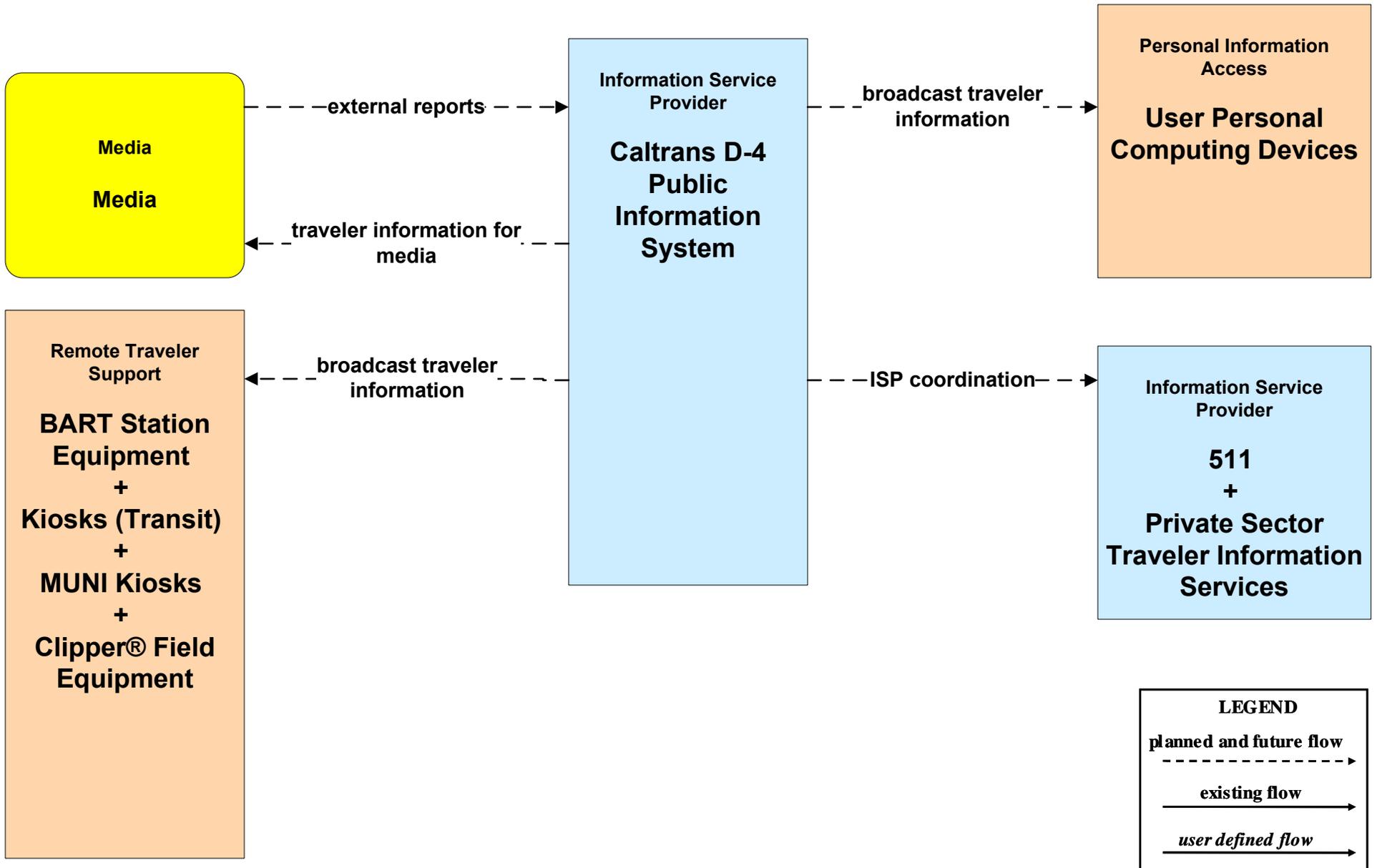
**ATIS01 - Broadcast Traveler Information
Caltrans D-4 Public Information System (Inputs) (1 of 2)**



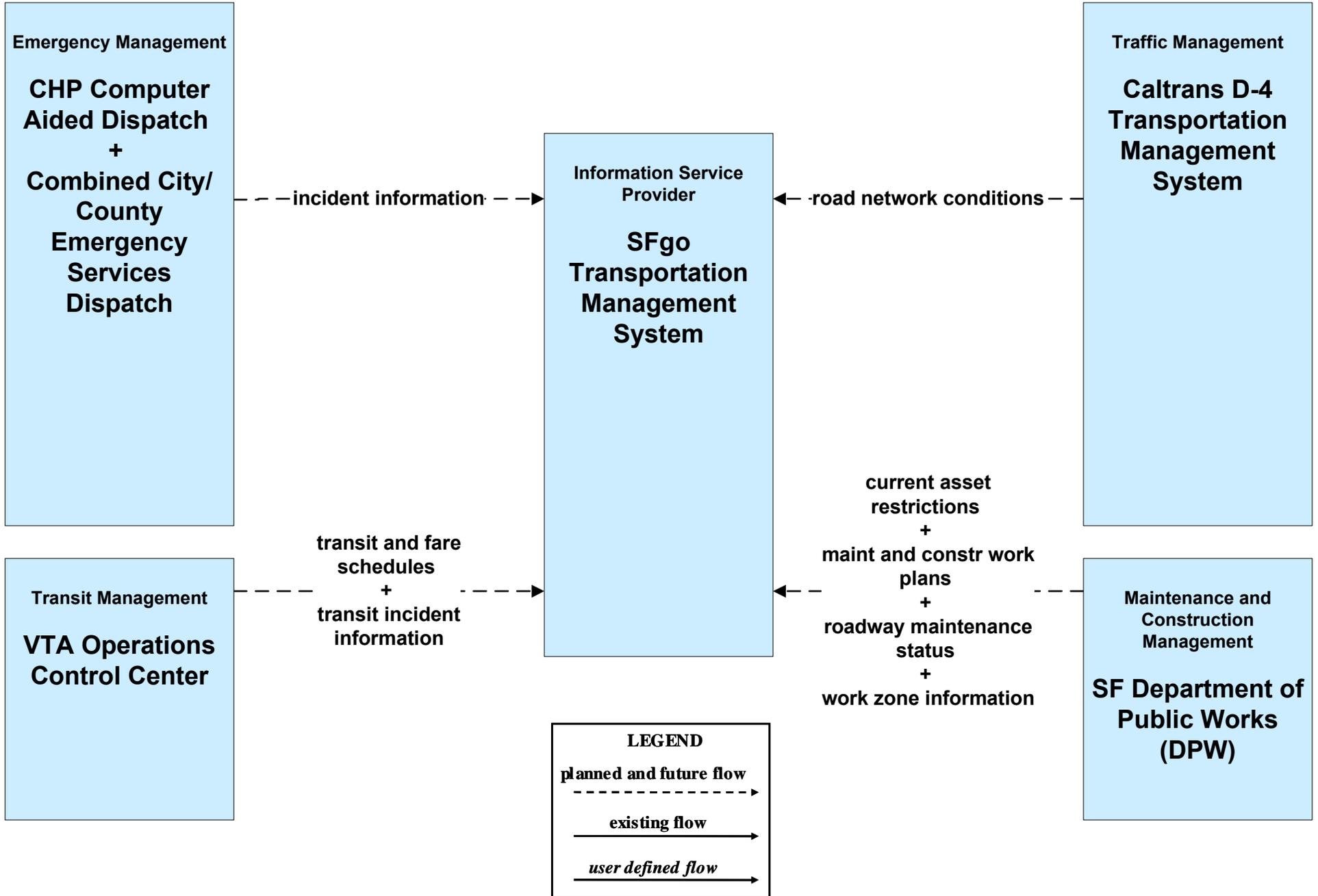
**ATIS01 - Broadcast Traveler Information
Caltrans D-4 Public Information System (Inputs) (2 of 2)**



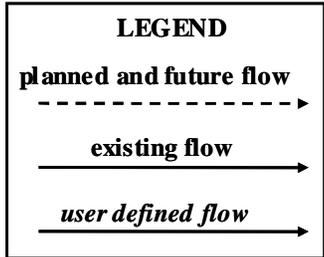
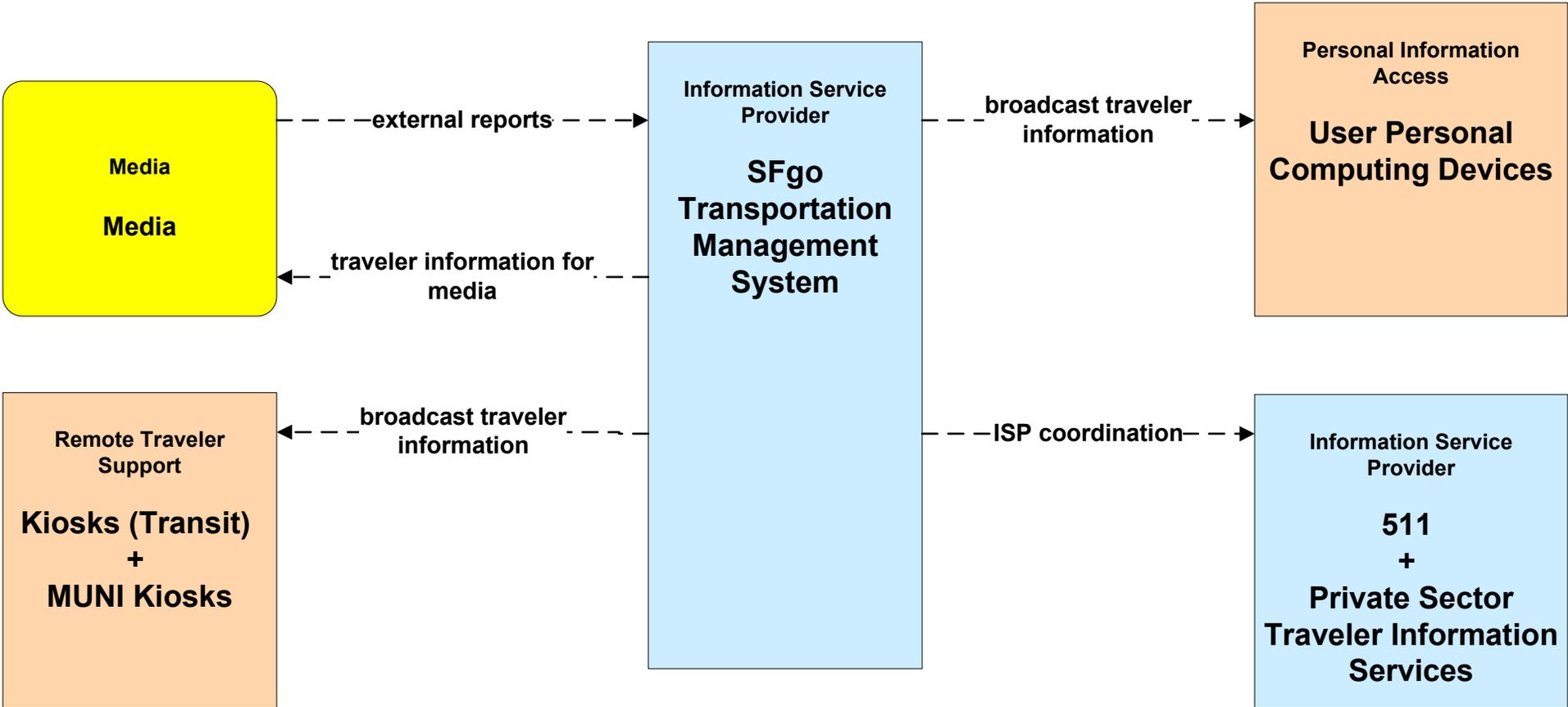
**ATIS01 - Broadcast Traveler Information
Caltrans D-4 Public Information System (Outputs)**



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

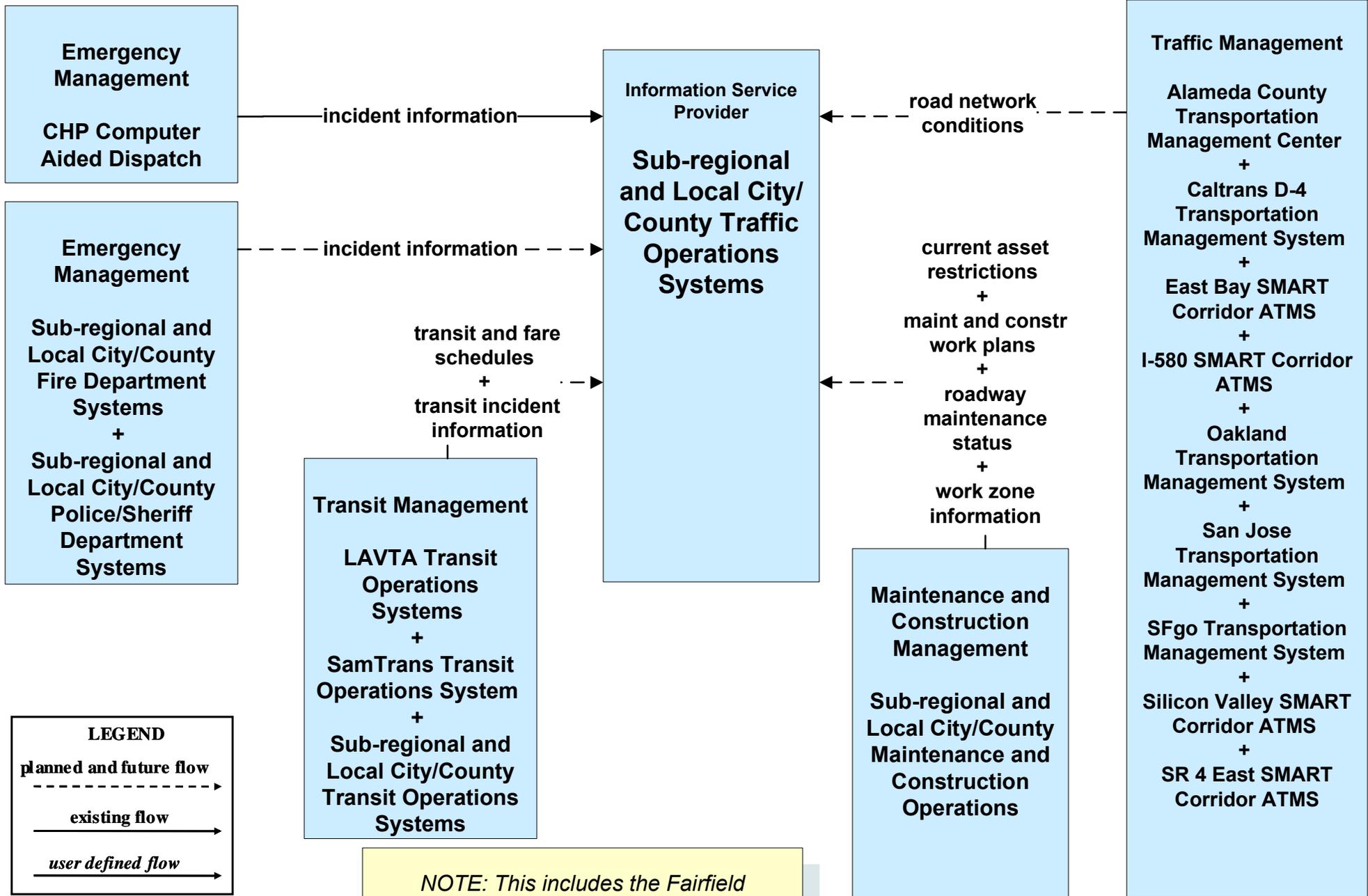


**ATIS01 - Broadcast Traveler Information
City of San Francisco Public Information System (Outputs)**



ATIS01 - Broadcast Traveler Information

Local City/County Public Information System (Inputs)



LEGEND

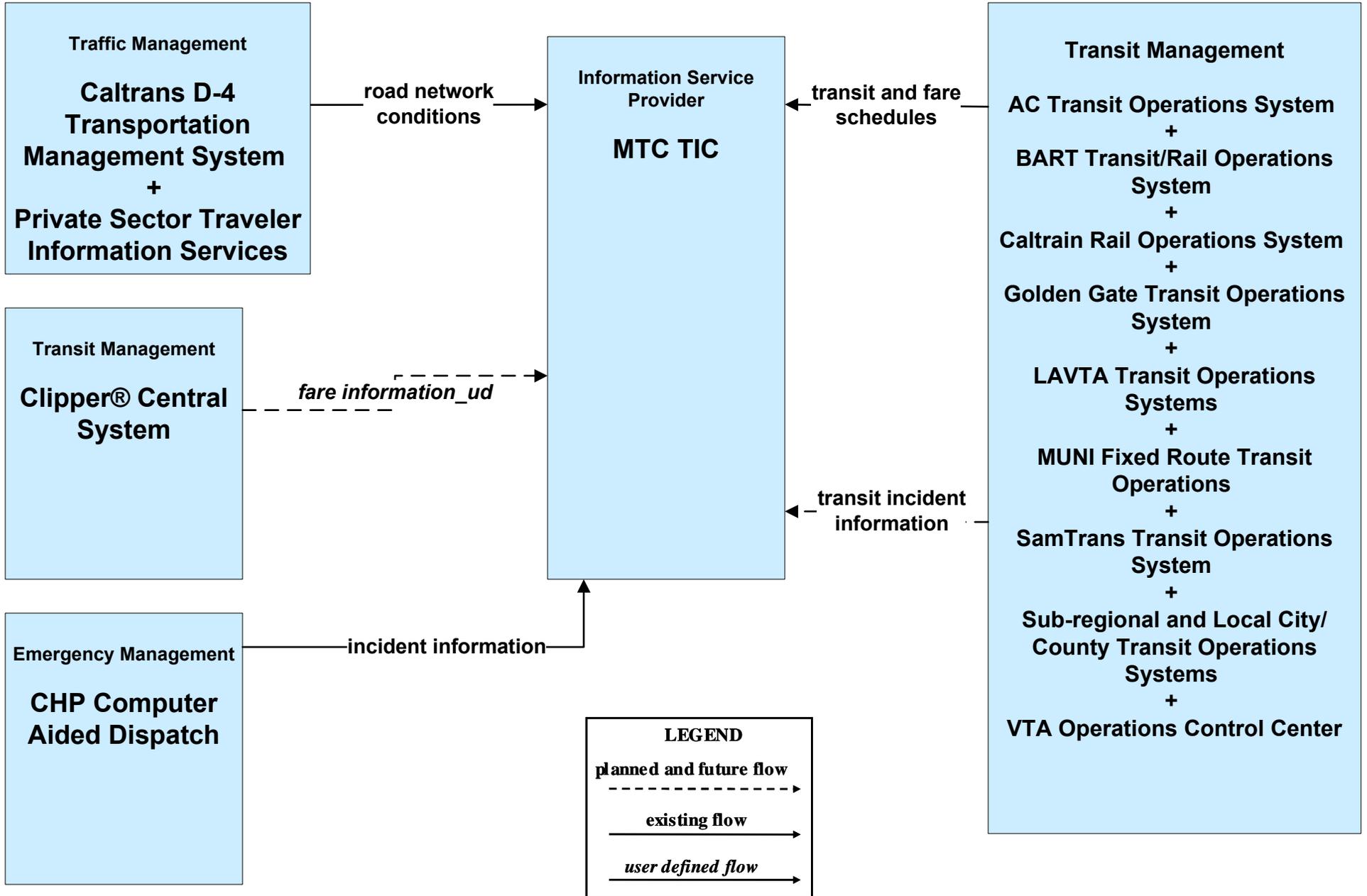
planned and future flow
- - - - ->

existing flow
—————>

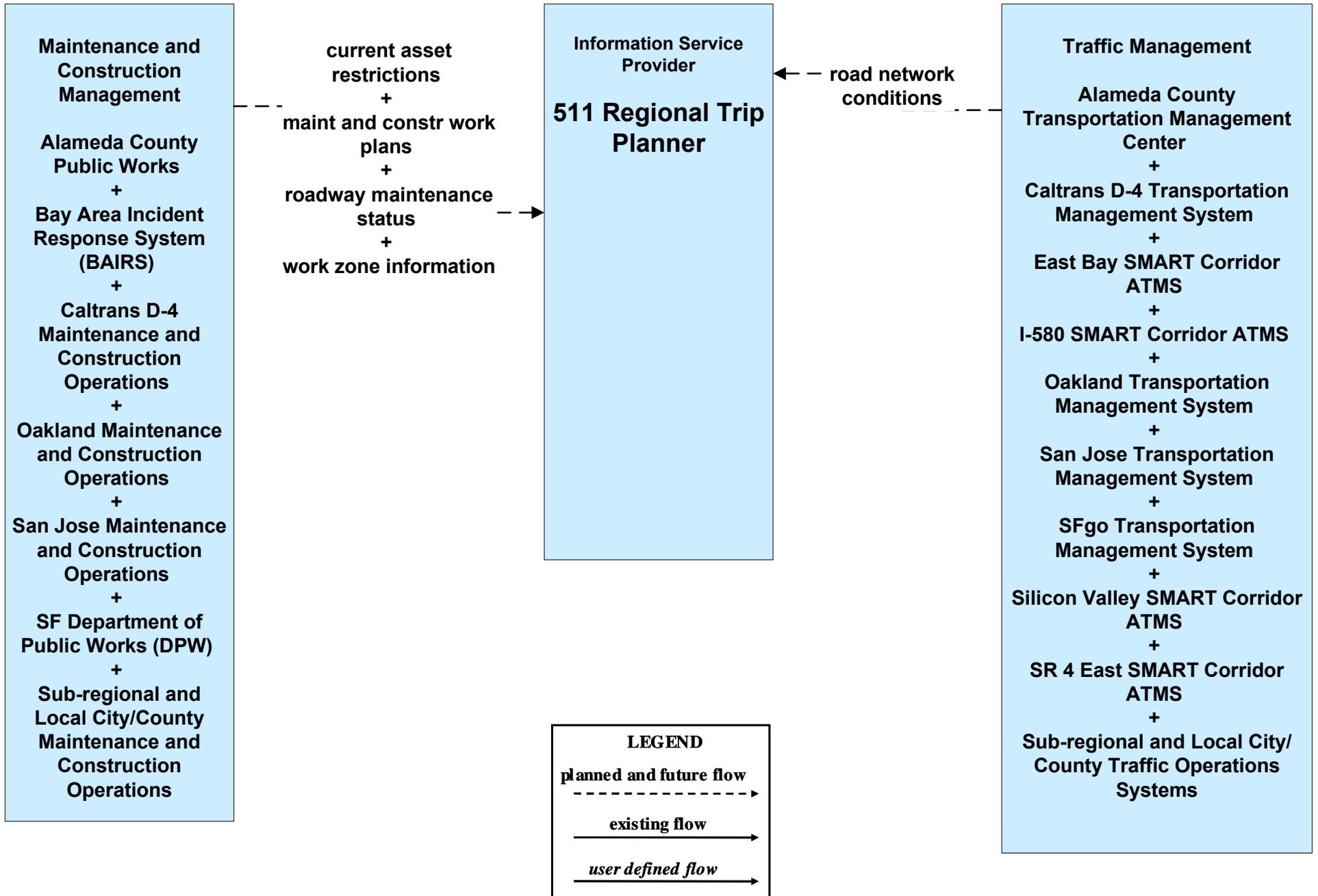
user defined flow
—————>

NOTE: This includes the Fairfield Advanced Traveler Information System

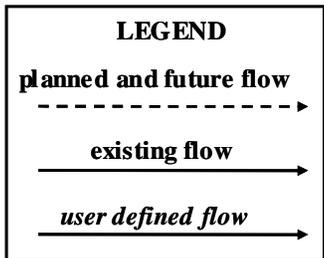
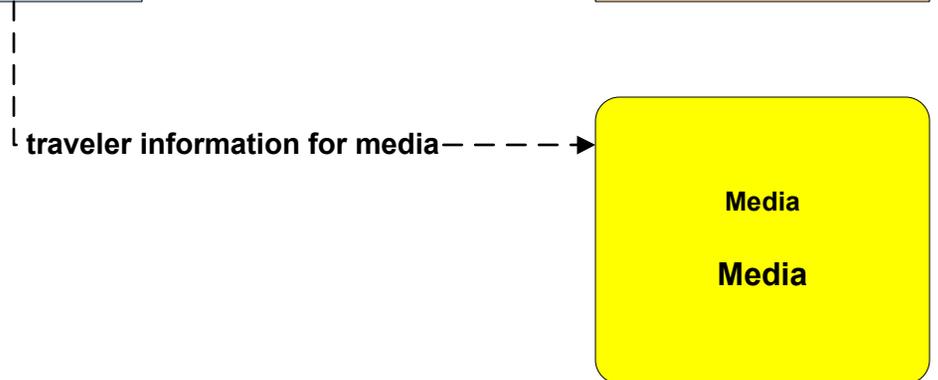
**ATIS1 - Broadcast Traveler Information
MTC TIC (Inputs)**



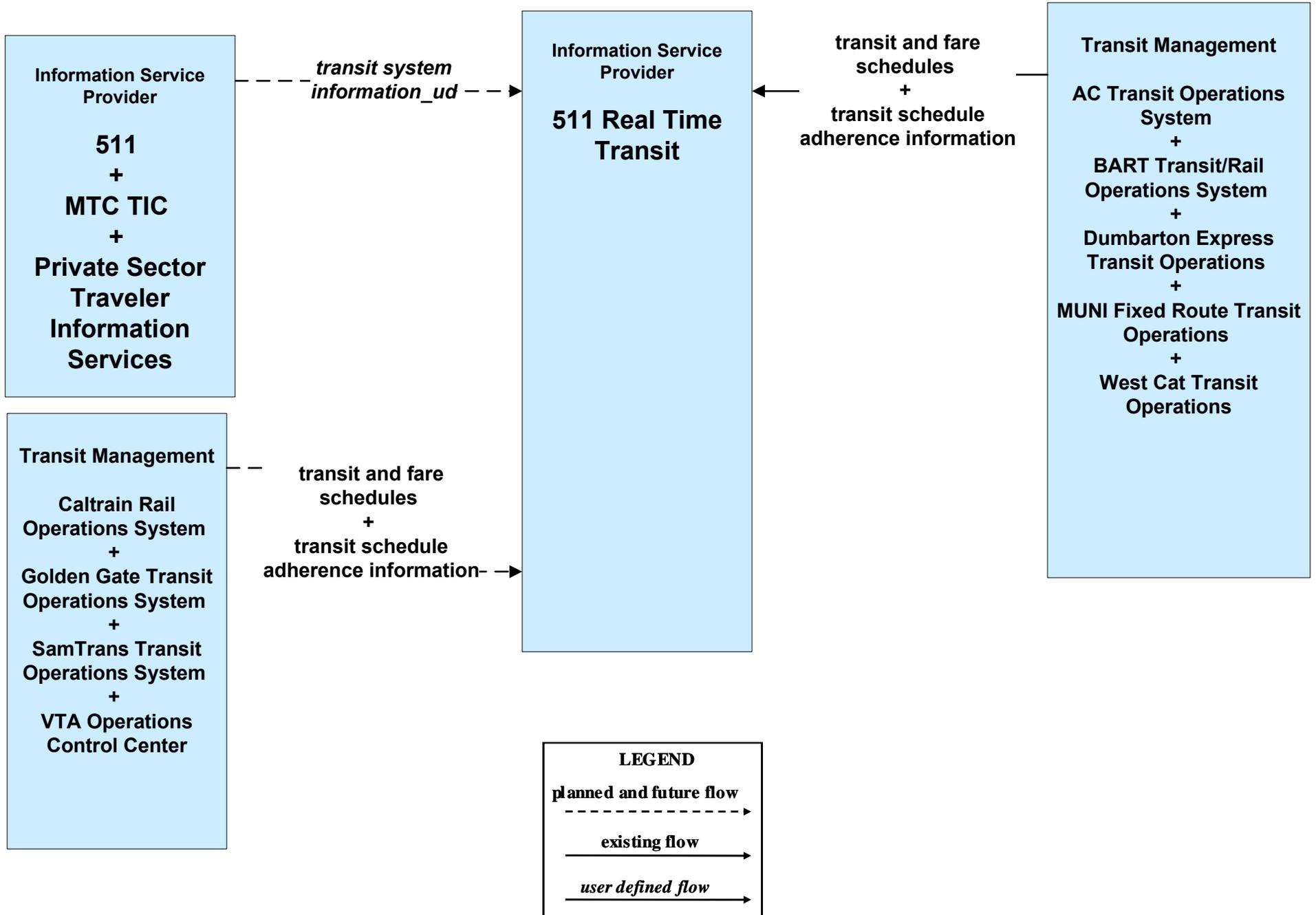
ATIS02 - Interactive Traveler Information 511 Regional Trip Planner (Inputs) (1 of 3)



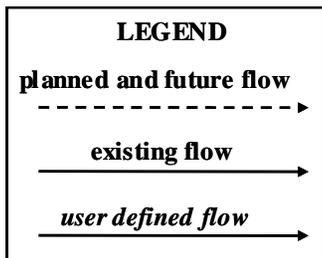
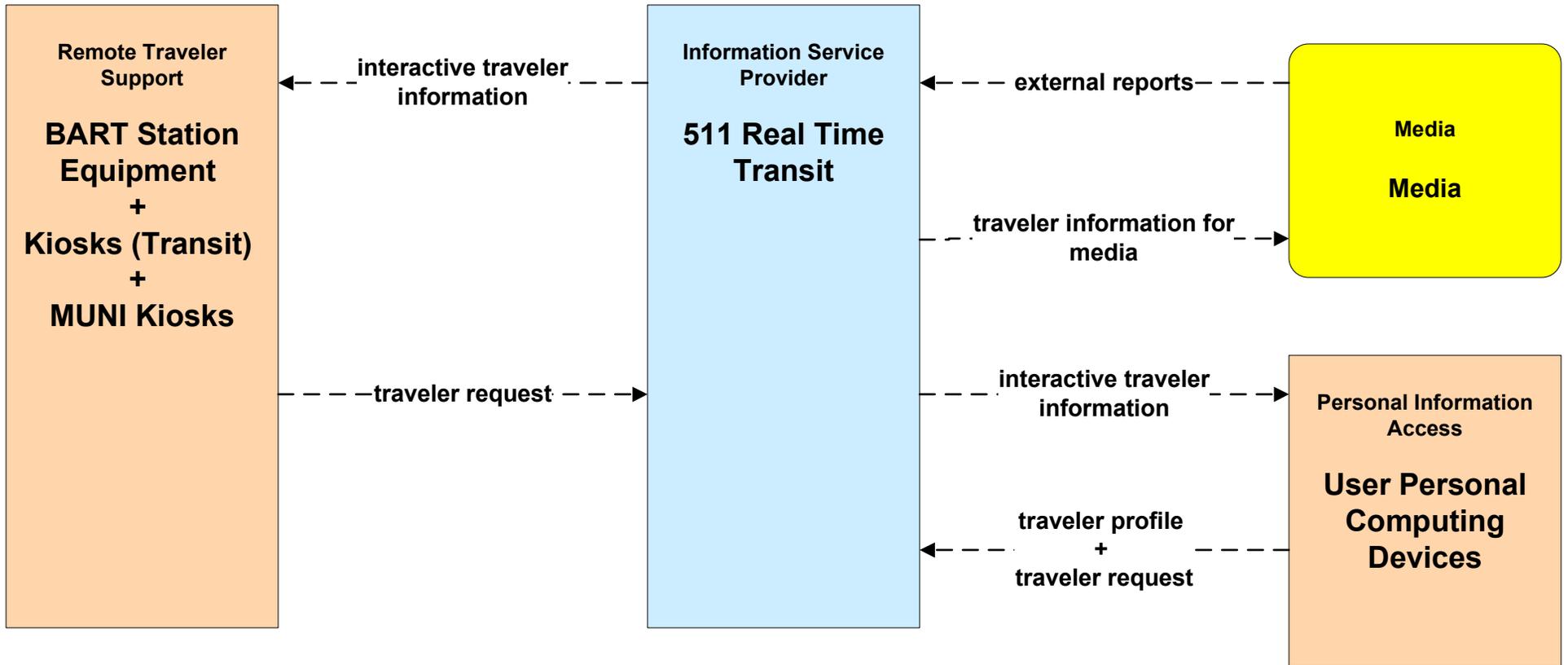
**ATIS02 - Interactive Traveler Information
511 Regional Trip Planner (Outputs) (3 of 3)**



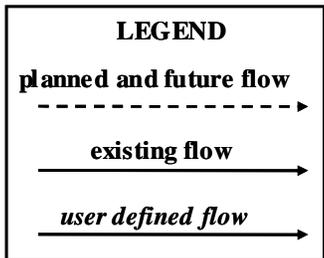
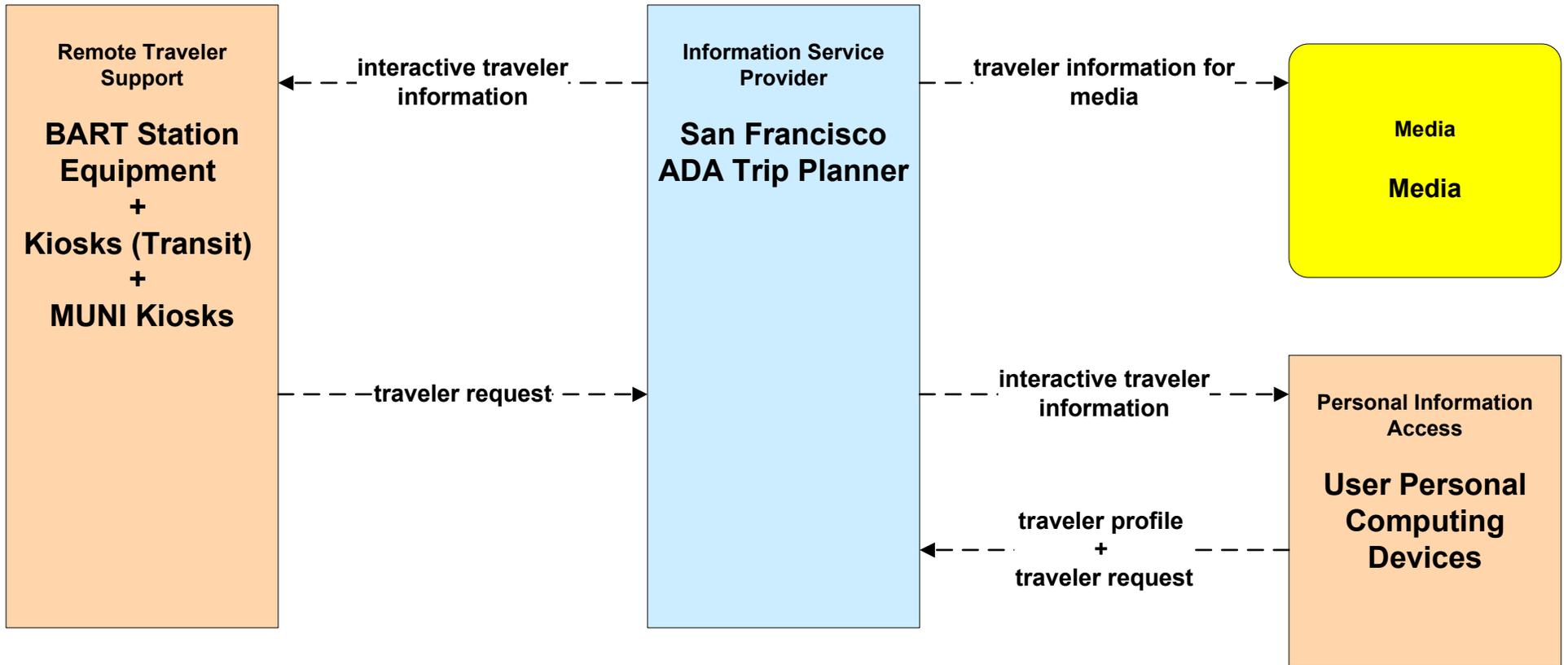
ATIS02 - Interactive Traveler Information RTIS (1 of 2)



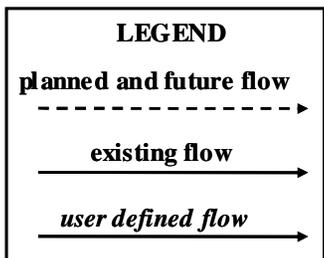
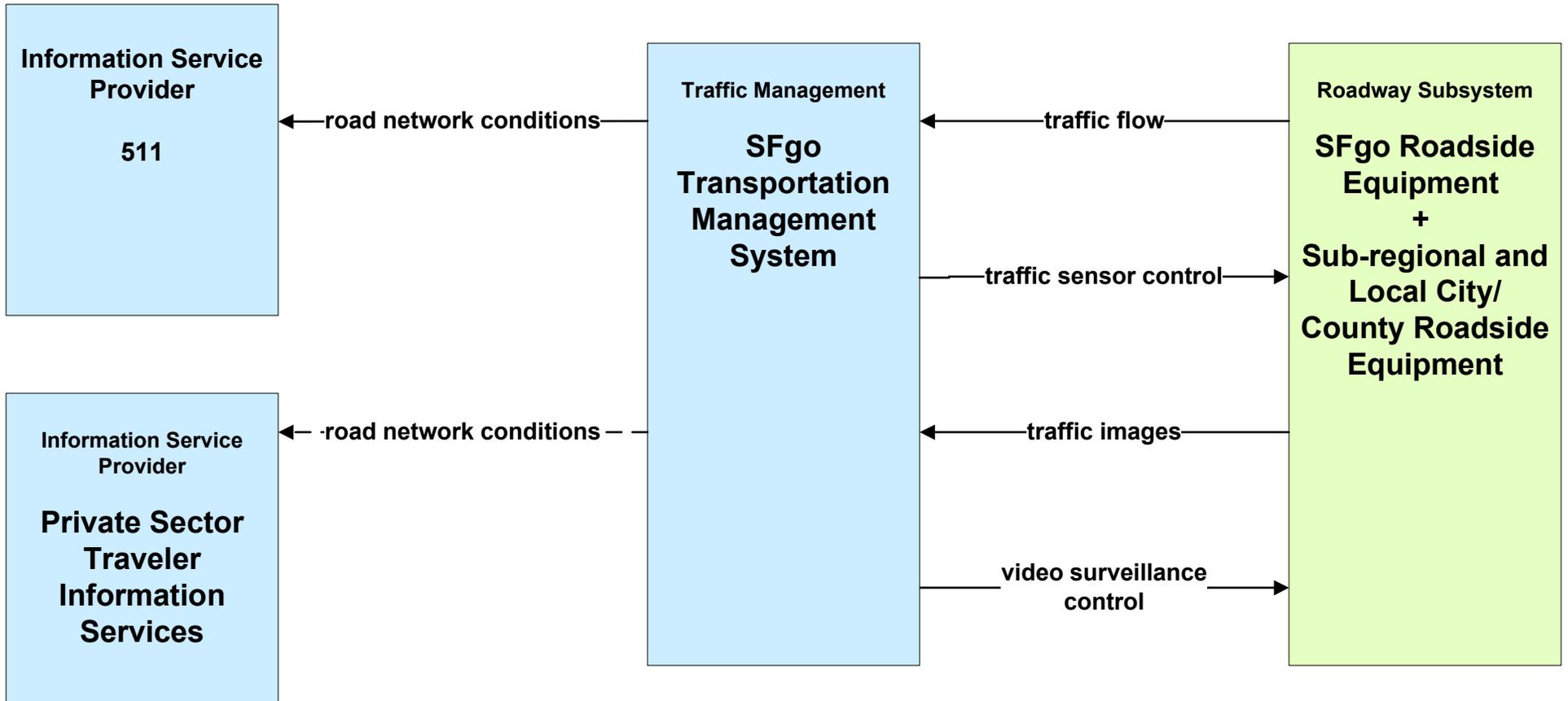
**ATIS02 - Interactive Traveler Information
RTIS (2 of 2)**



**ATIS02 - Interactive Traveler Information
San Francisco ADA Trip Planner**

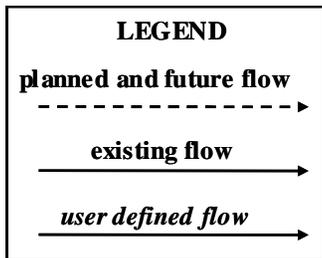
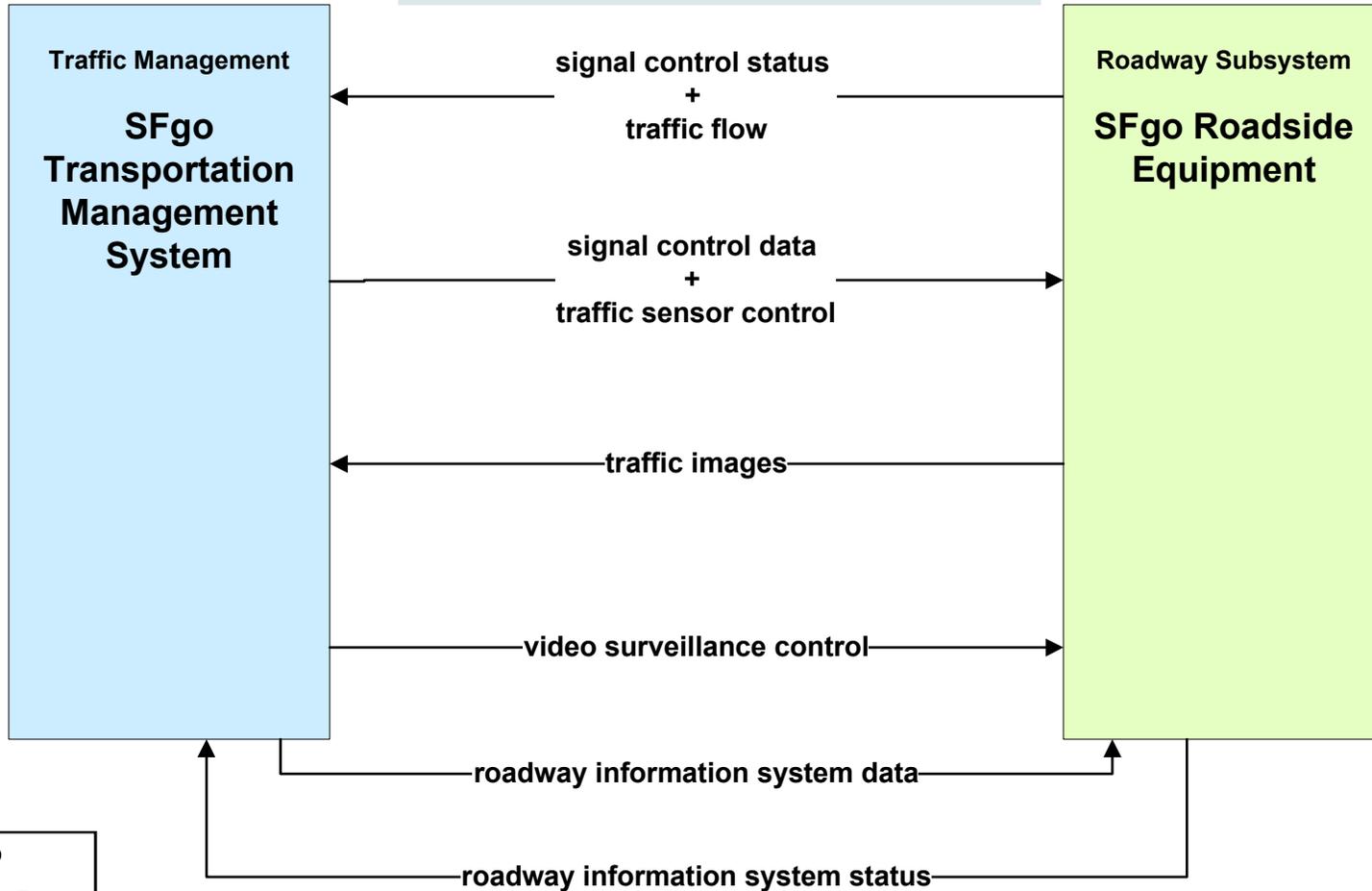


ATMS01 - Network Surveillance
SFgo Transportation Management System



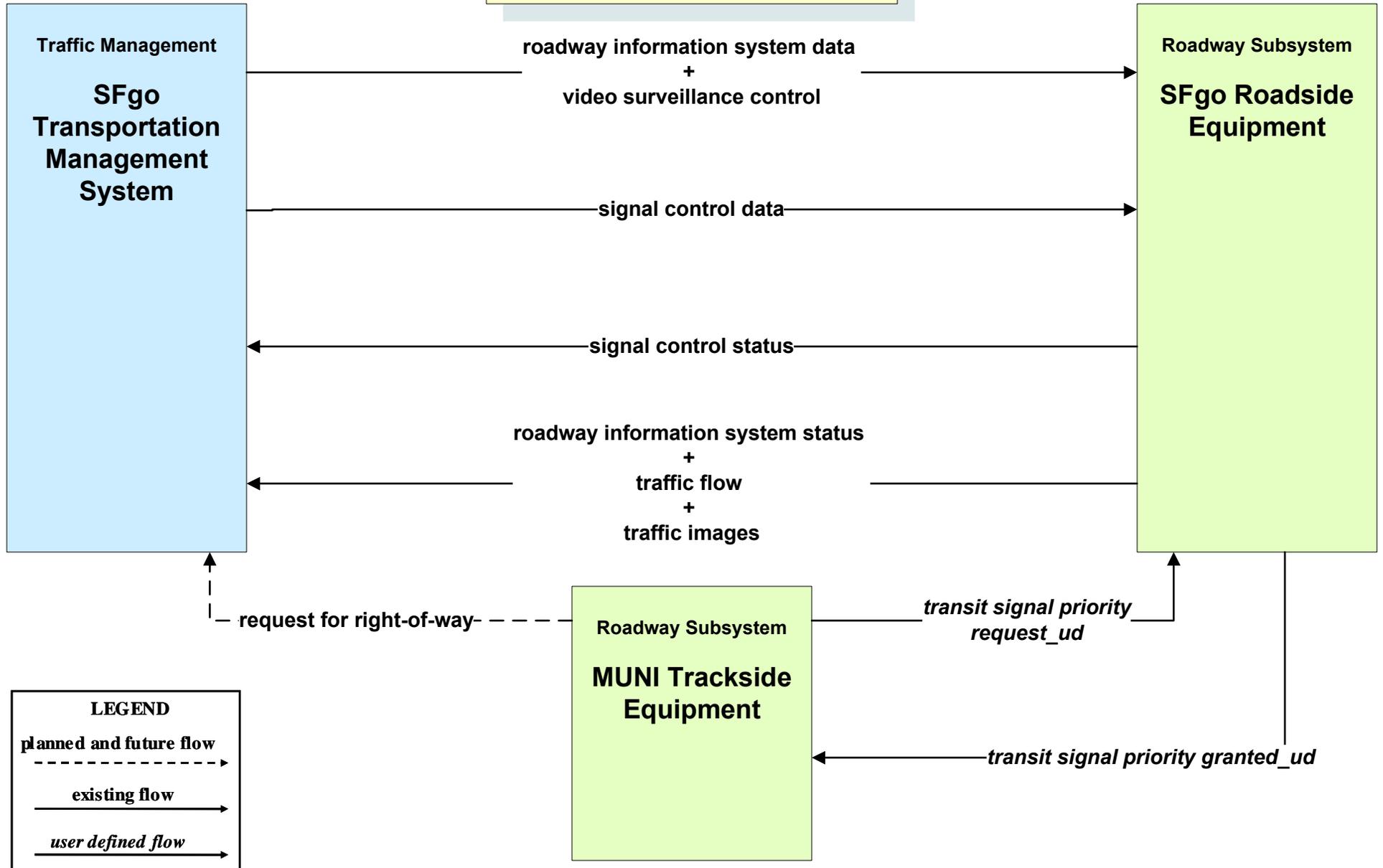
ATMS03 - Surface Street Control
SFgo Transportation Management System

*Arterial Traffic Management, including
Third Street Corridor*

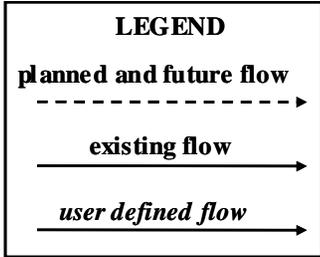
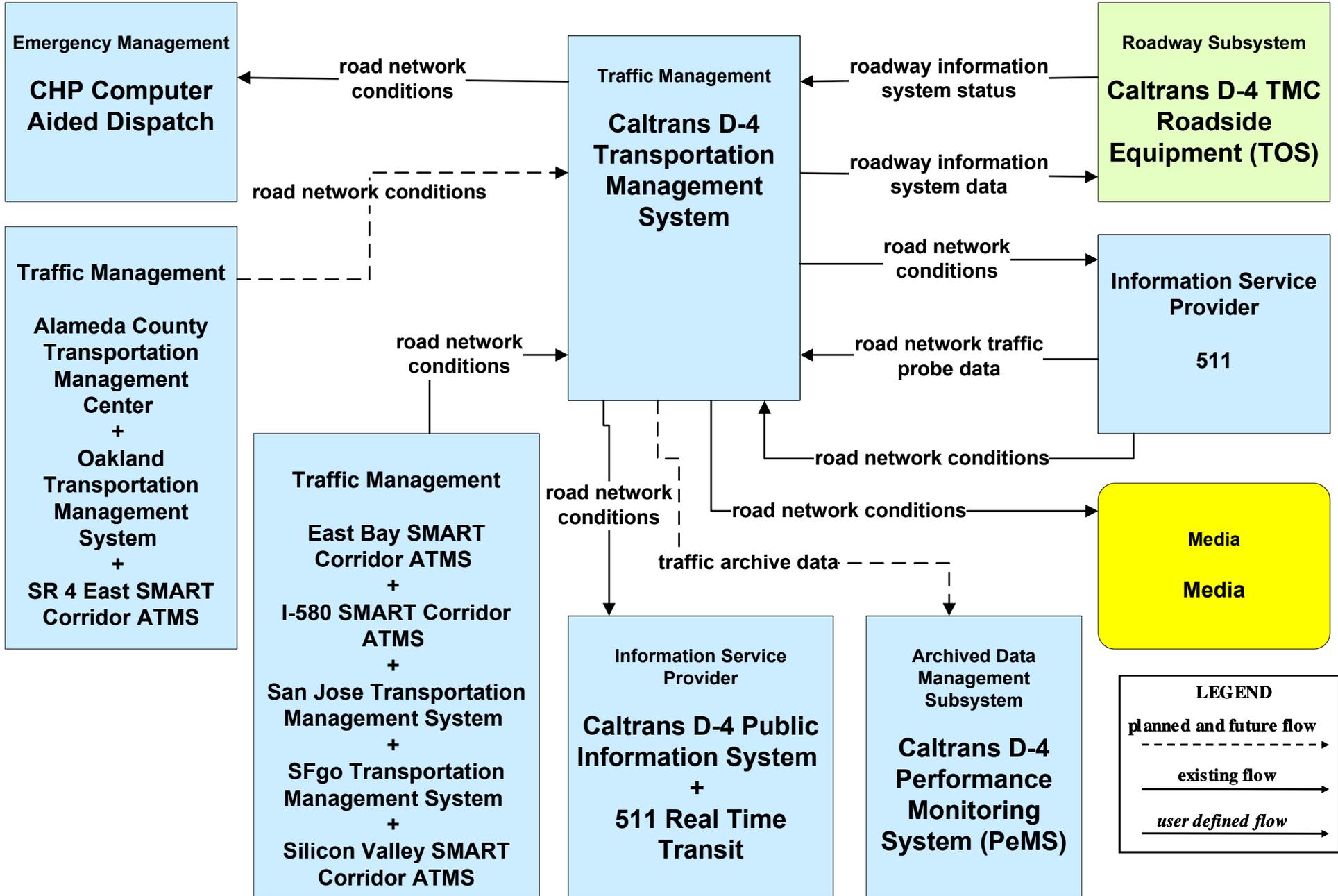


ATMS03 – Surface Street Control SFgo TMS

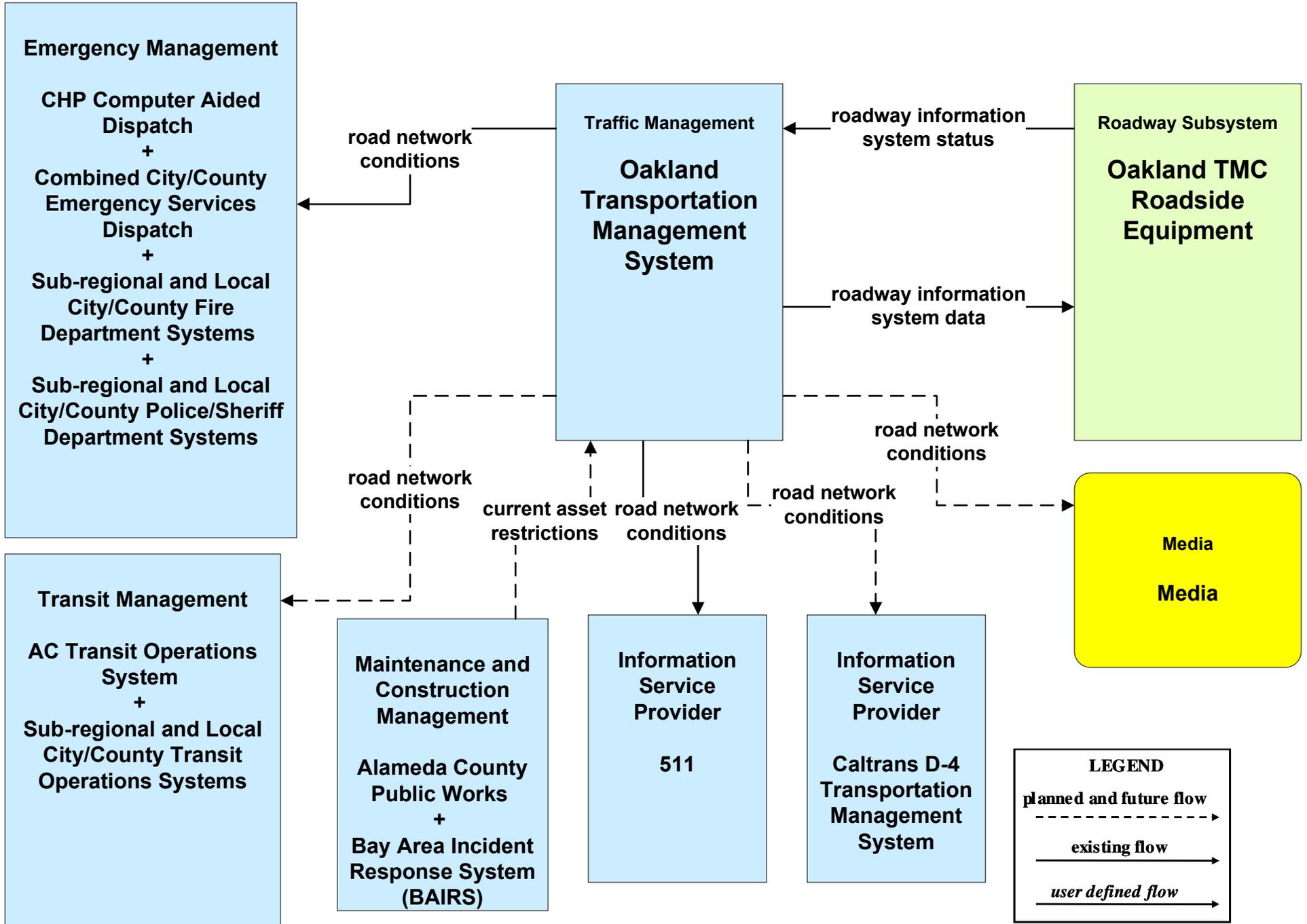
*Arterial Traffic Management -
South of Market Area*



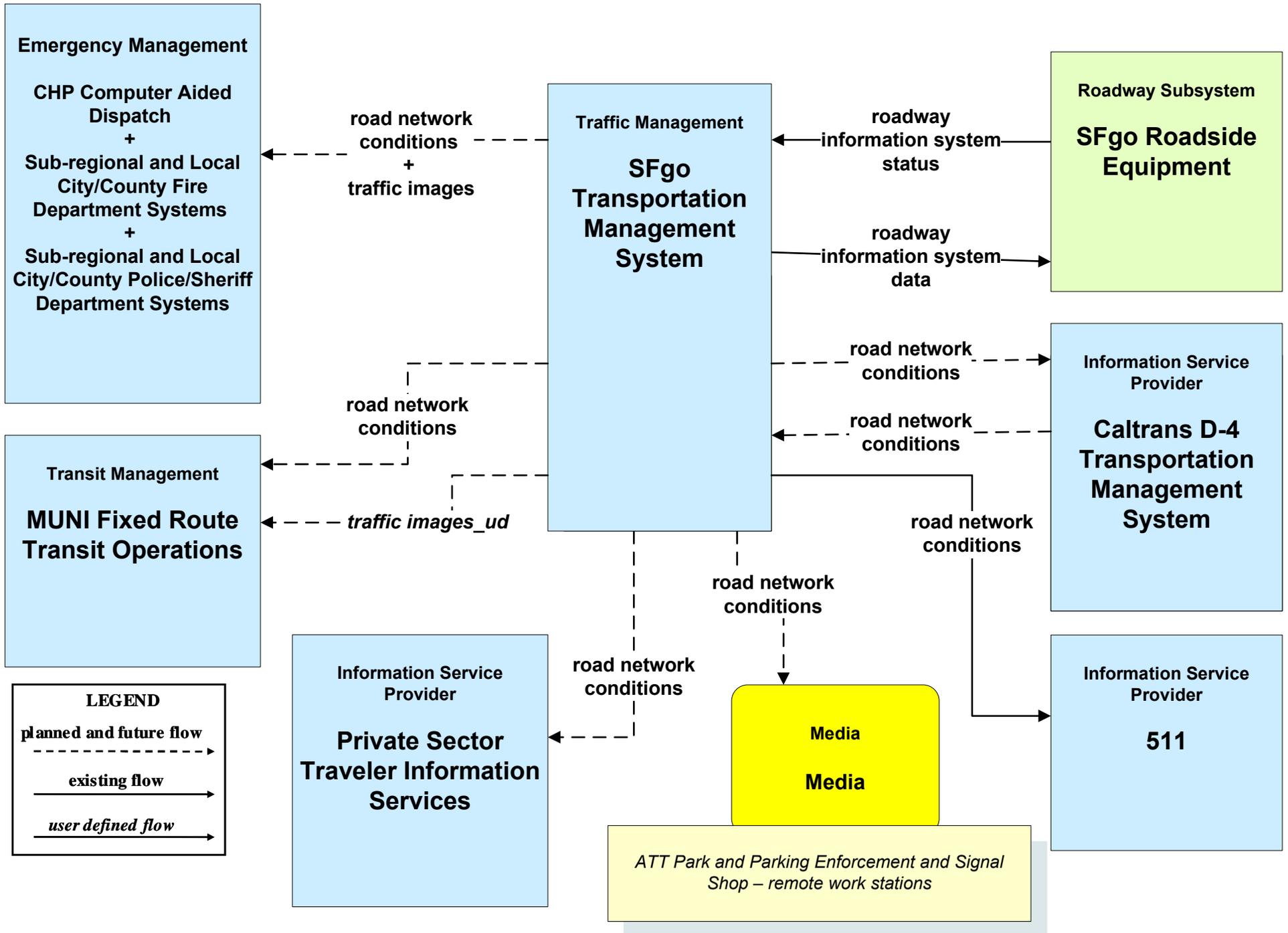
ATMS06 - Traffic Information Dissemination Caltrans D-4



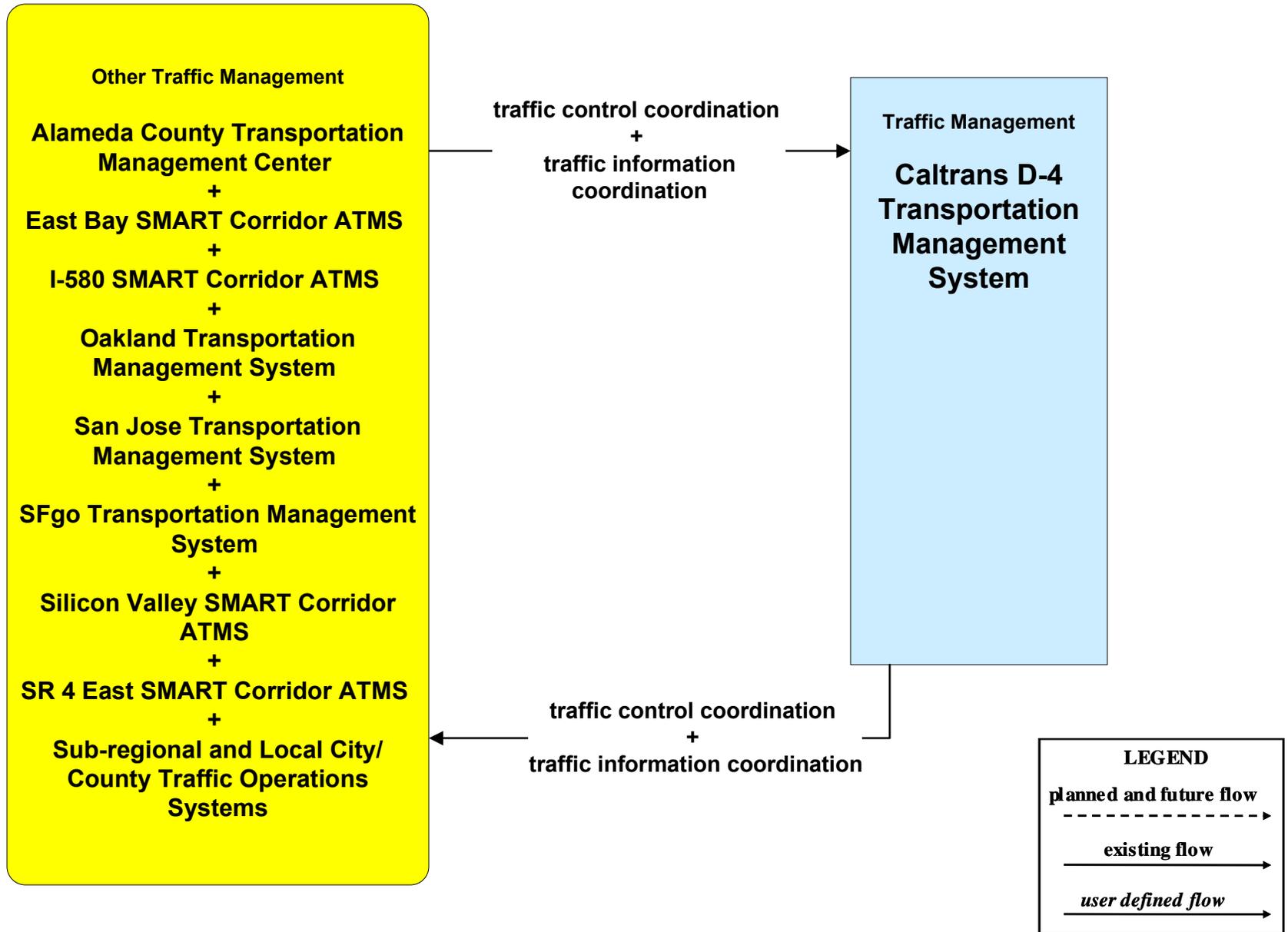
ATMS06 - Traffic Information Dissemination Oakland TMS



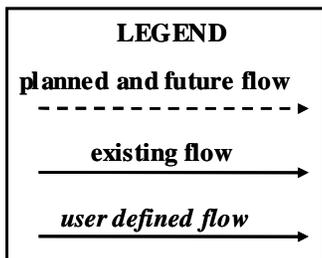
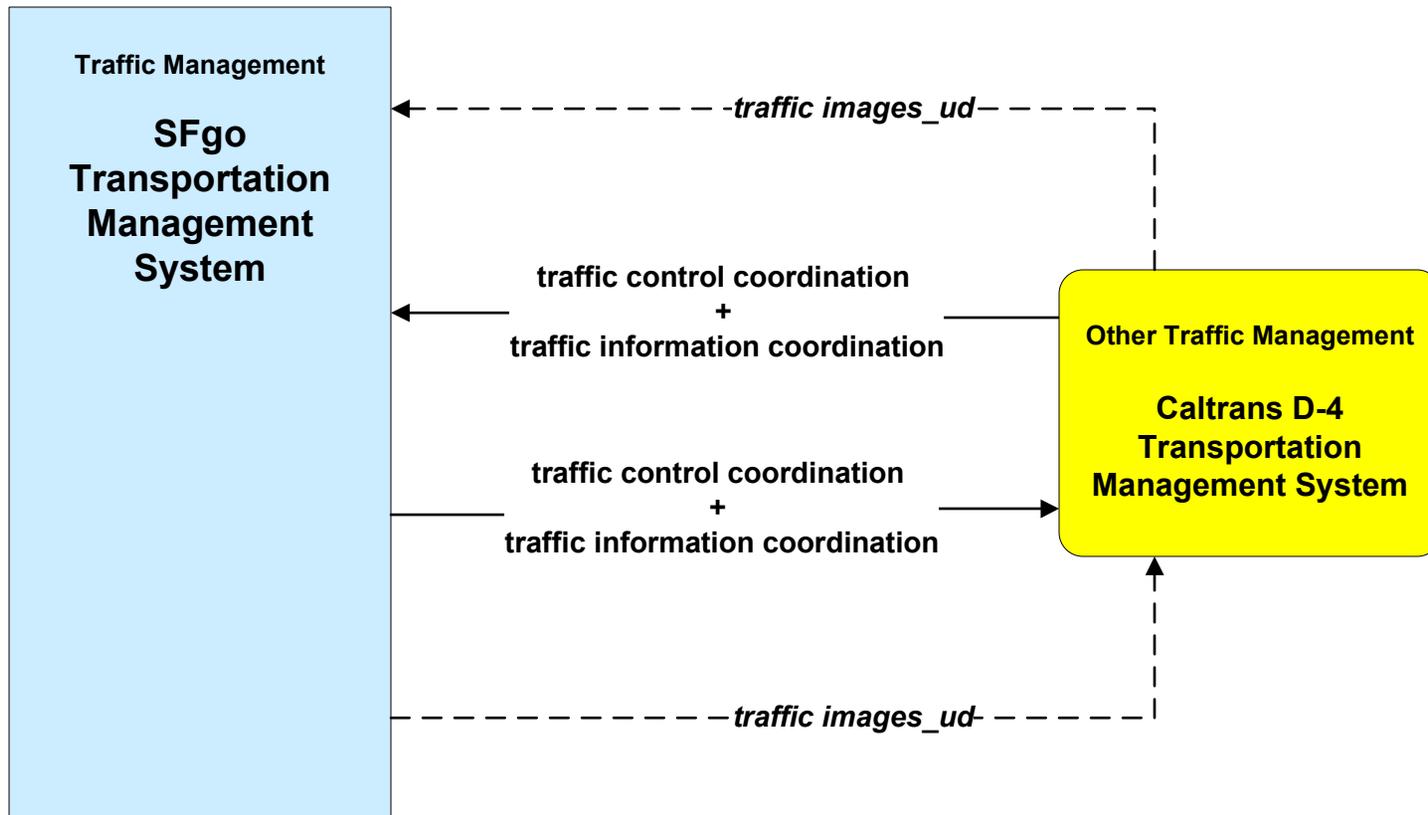
ATMS06 - Traffic Information Dissemination SFgo TMS



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

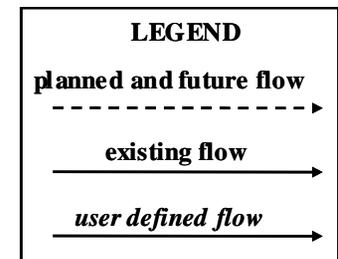
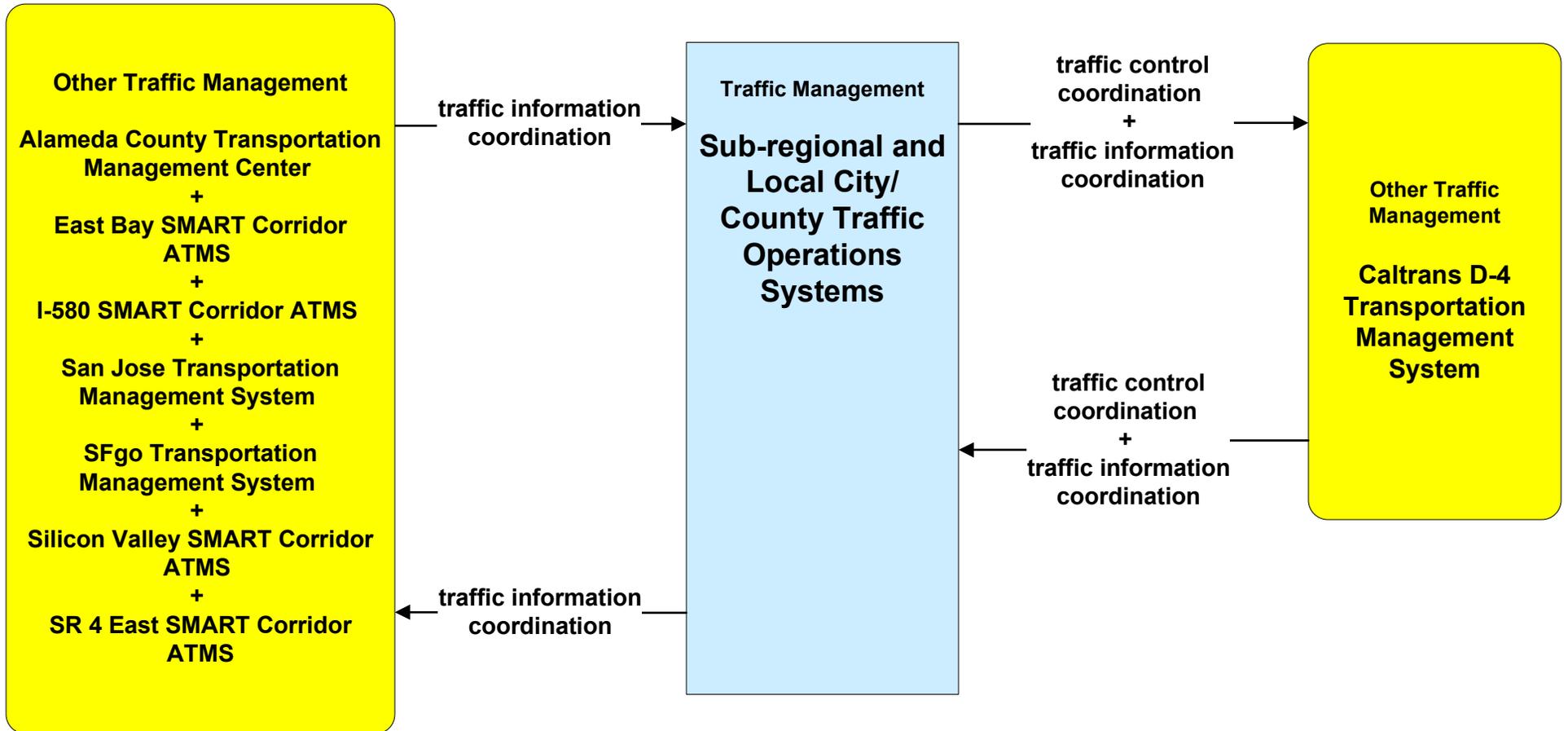


ATMS07 - Regional Traffic Management SFgo

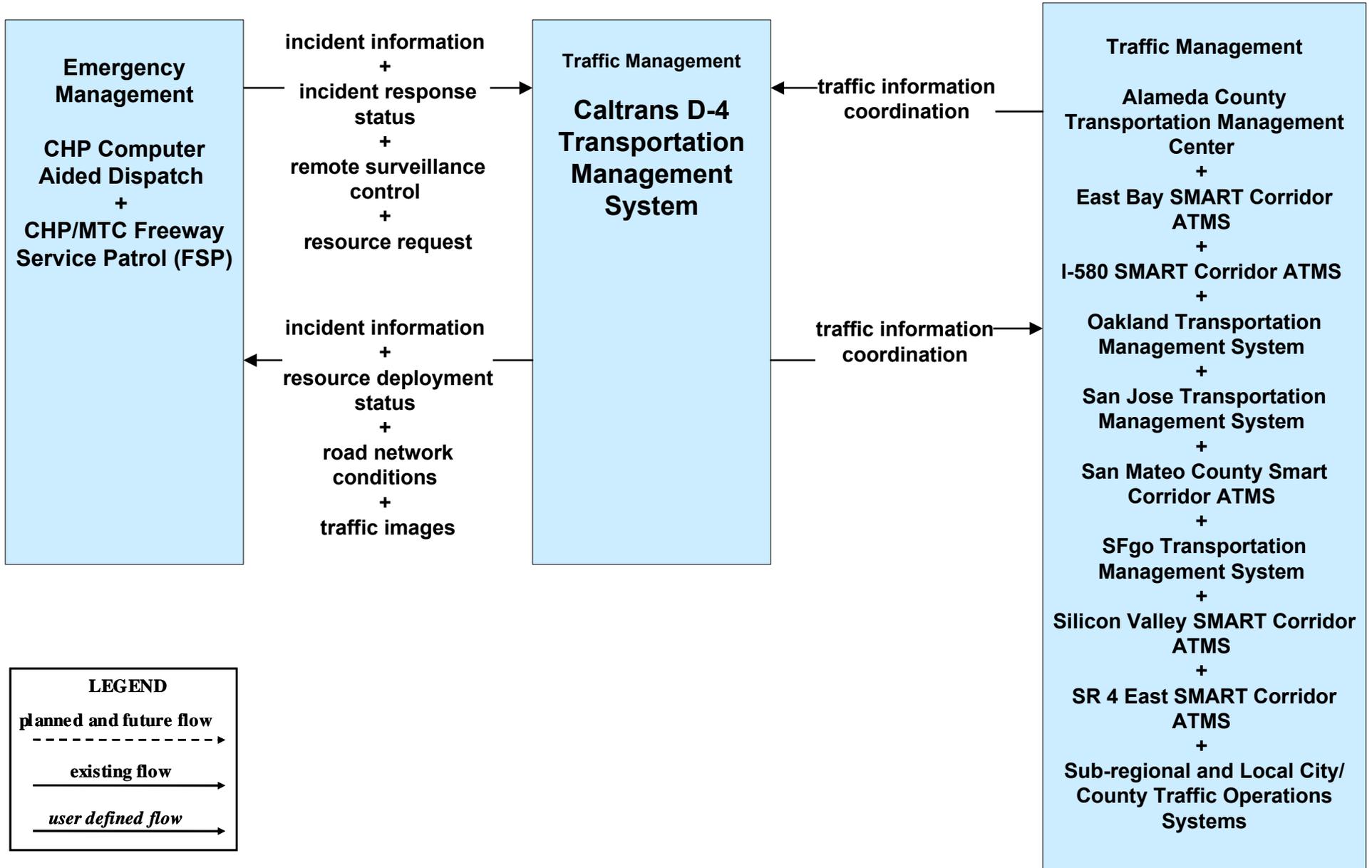


ATMS07 - Regional Traffic Management

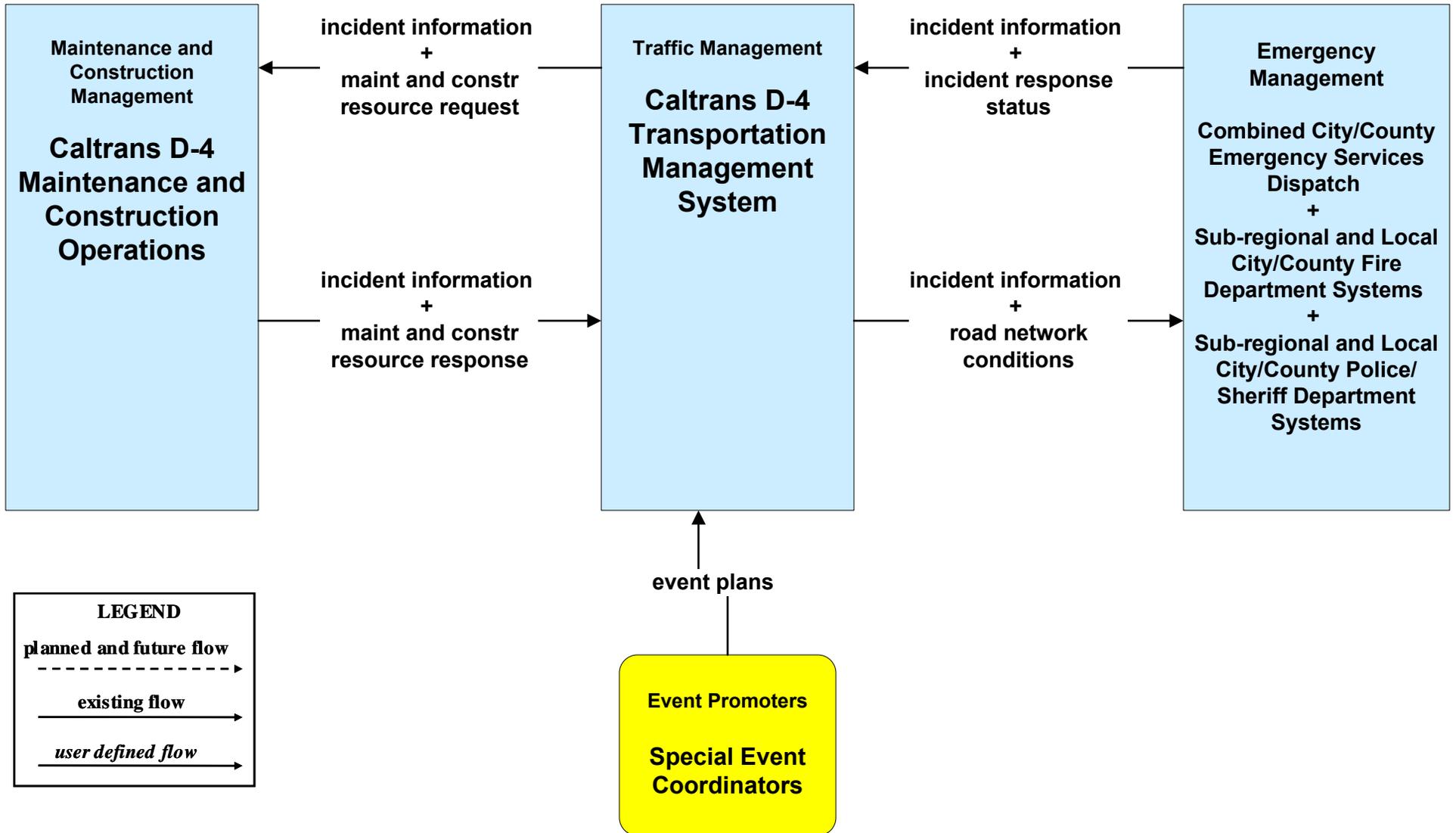
Sub-regional and Local City/County Traffic Operations



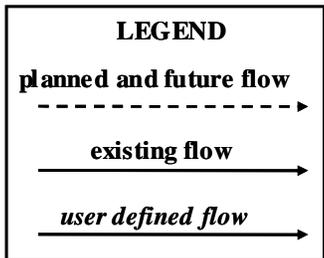
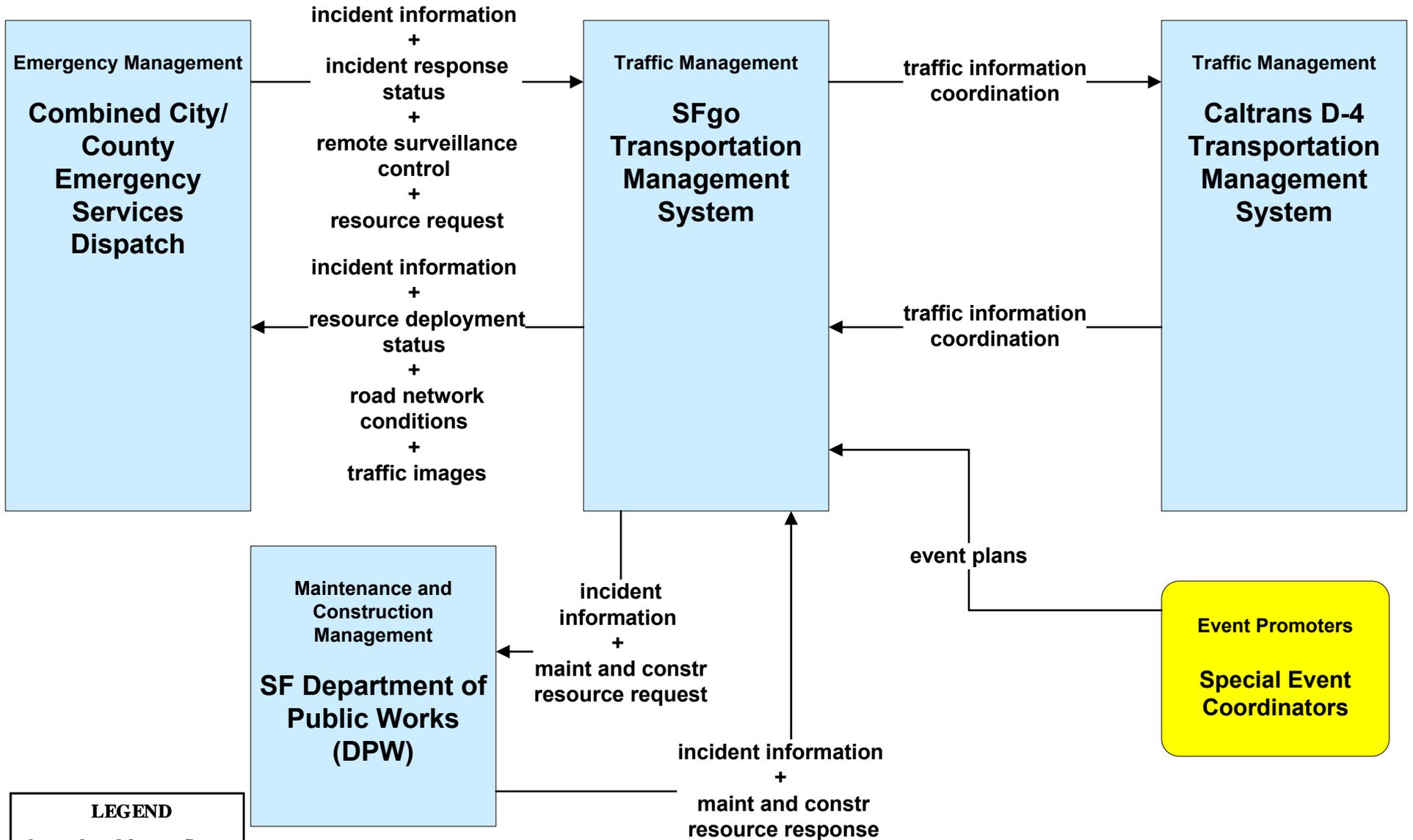
**ATMS08 - Incident Management
Caltrans D-4 (TM) (1 of 2)**



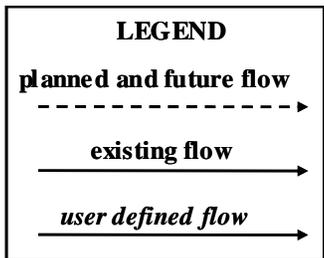
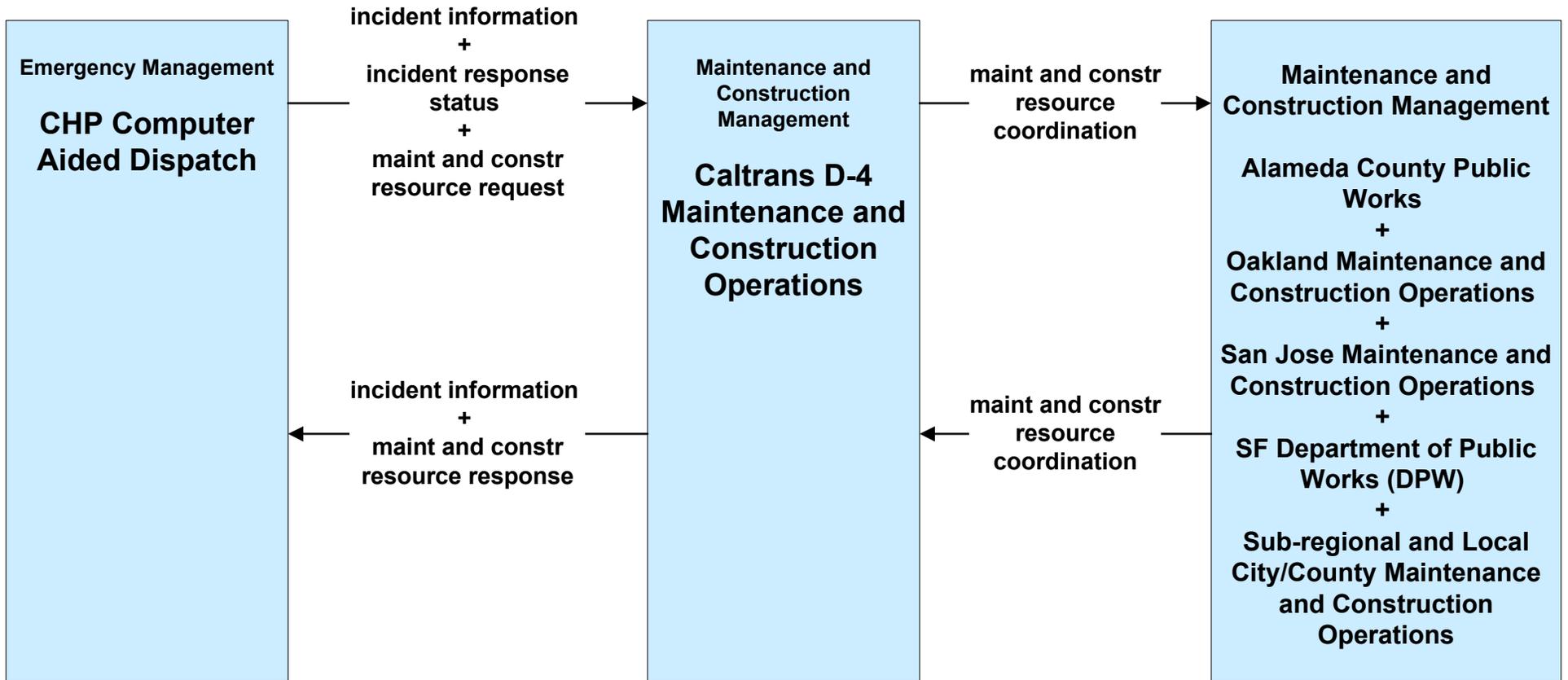
**ATMS08 - Incident Management
Caltrans D-4 (TM) (2 of 2)**



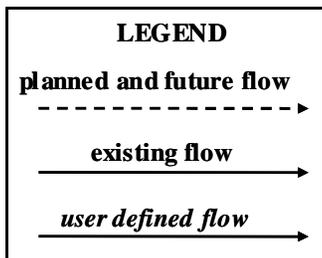
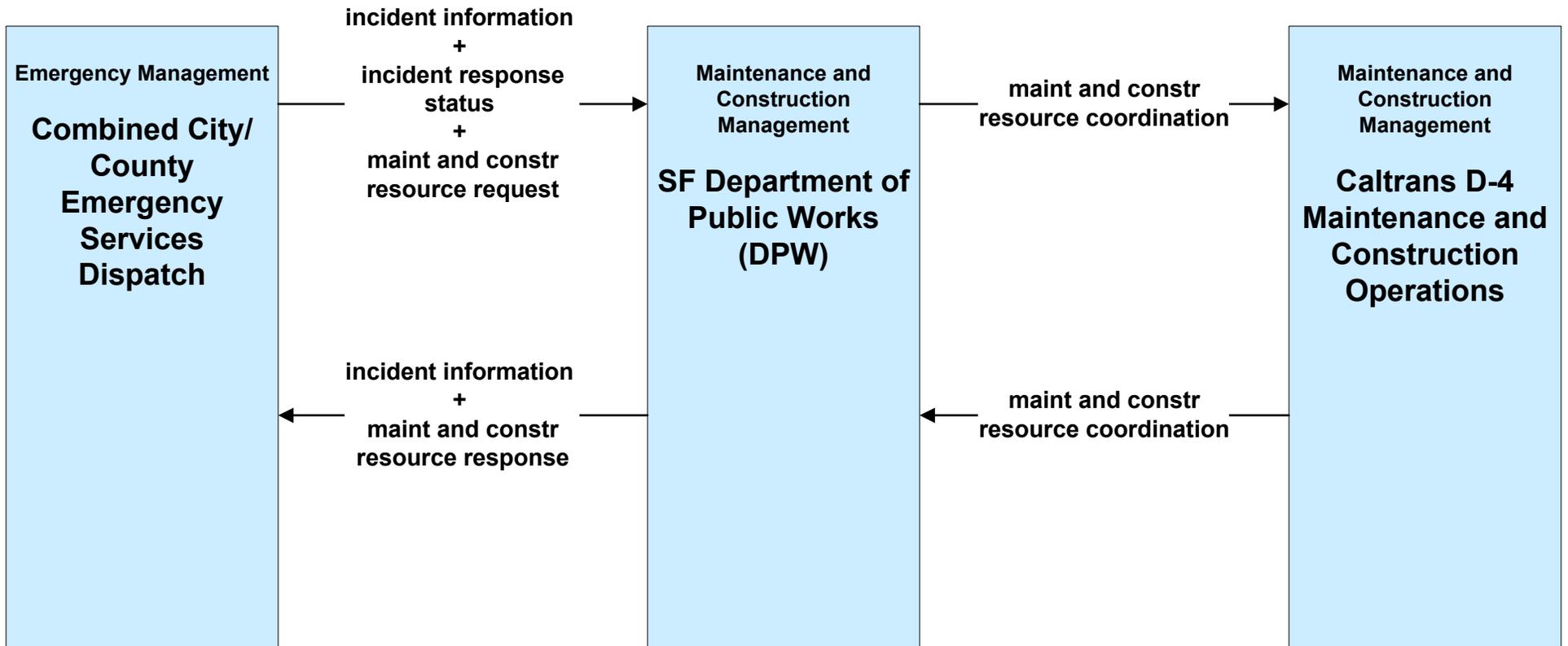
ATMS08 - Incident Management SFgo TMS (TM)



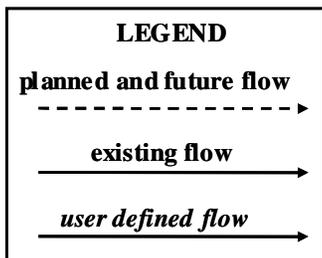
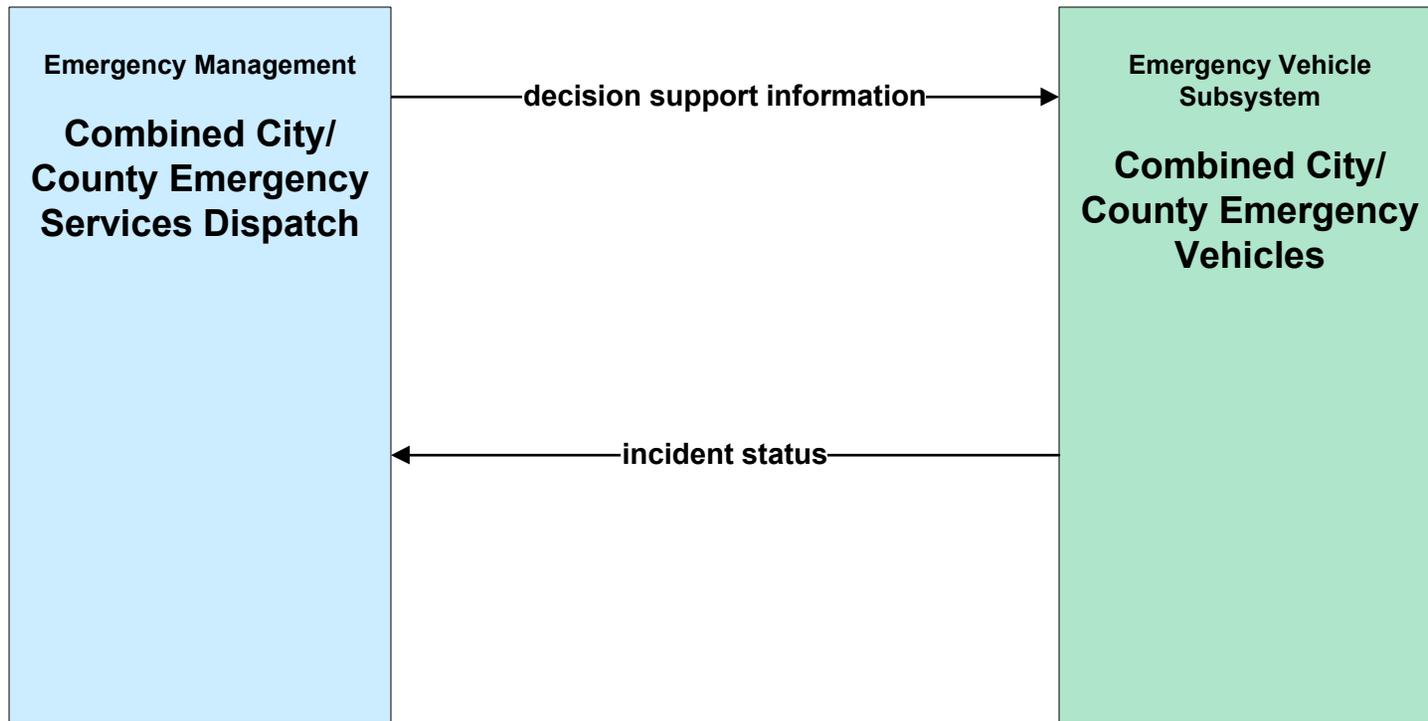
**ATMS08 - Incident Management
Caltrans D-4 Maintenance**



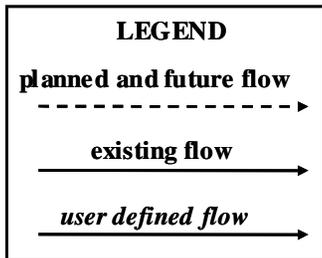
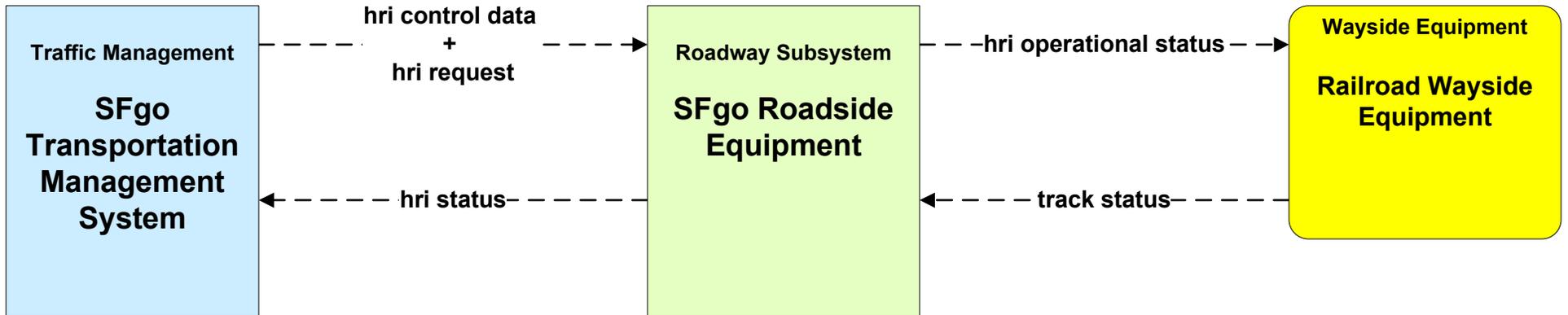
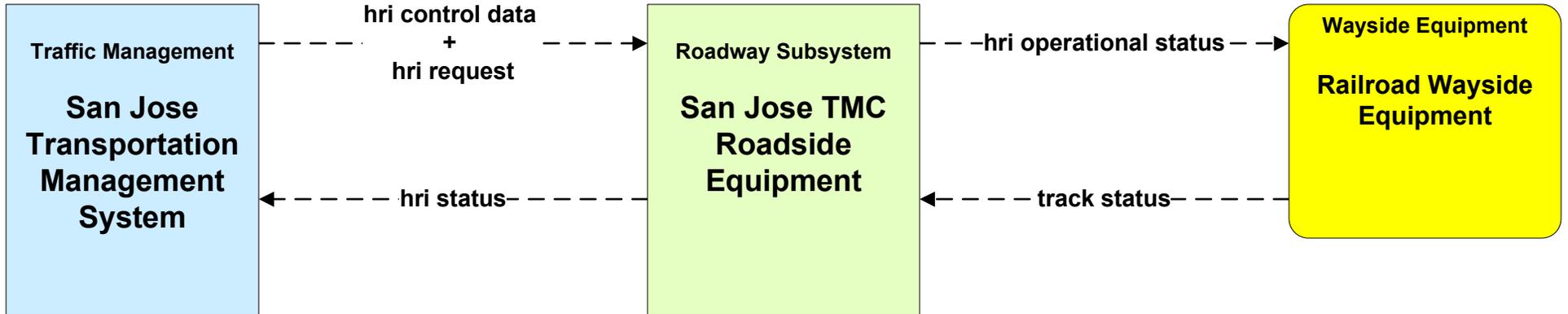
ATMS08 - Incident Management SF DPW



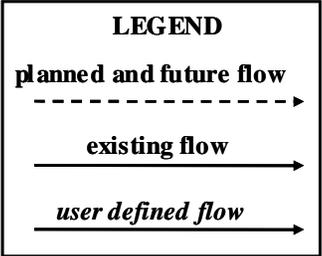
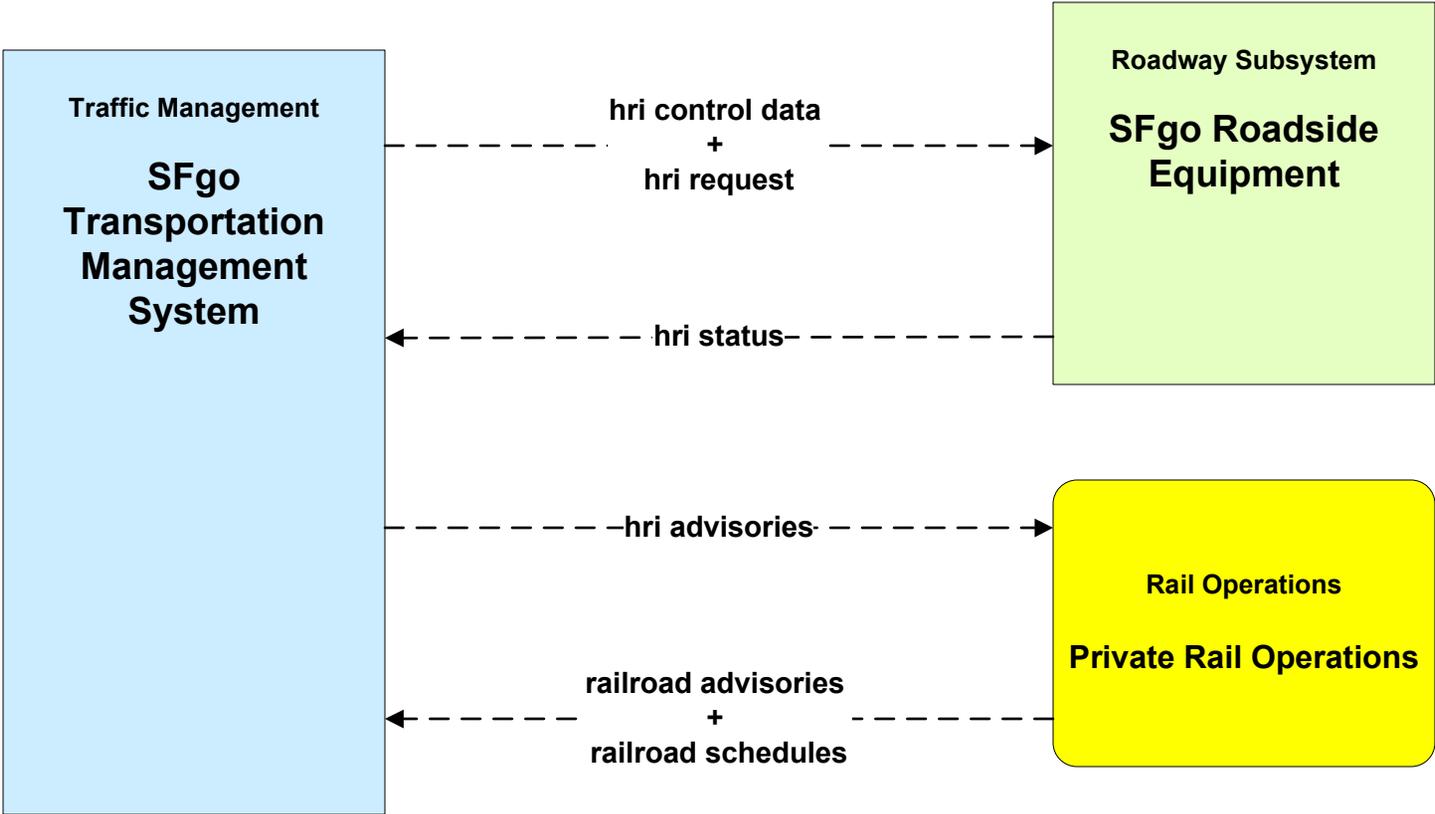
**ATMS08 - Incident Management
City / County (EM to EVS)**



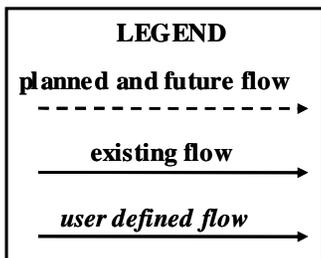
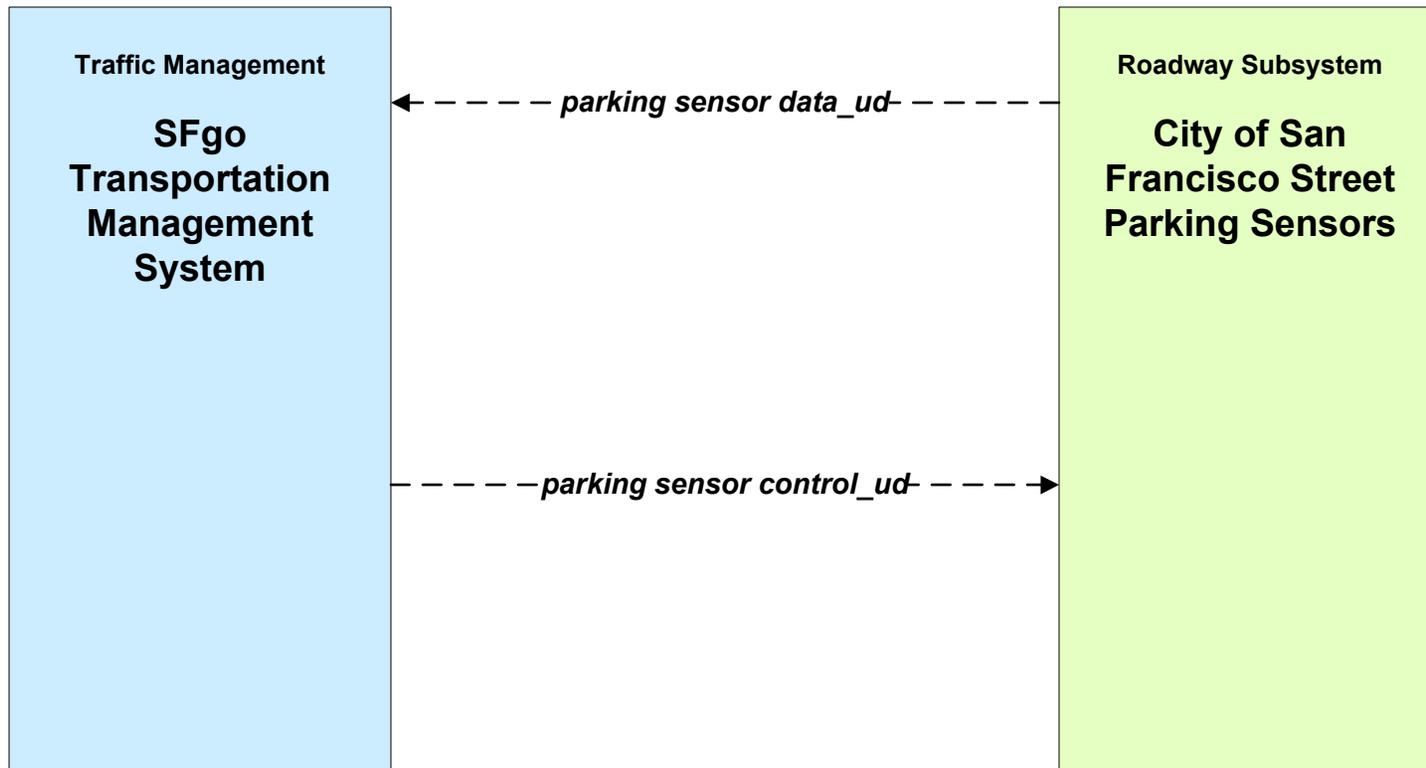
**ATMS13 - Standard Railroad Crossing
San Jose / SFgo TMS**



**ATMS15 - Railroad Operations Coordination
SFgo TMS**

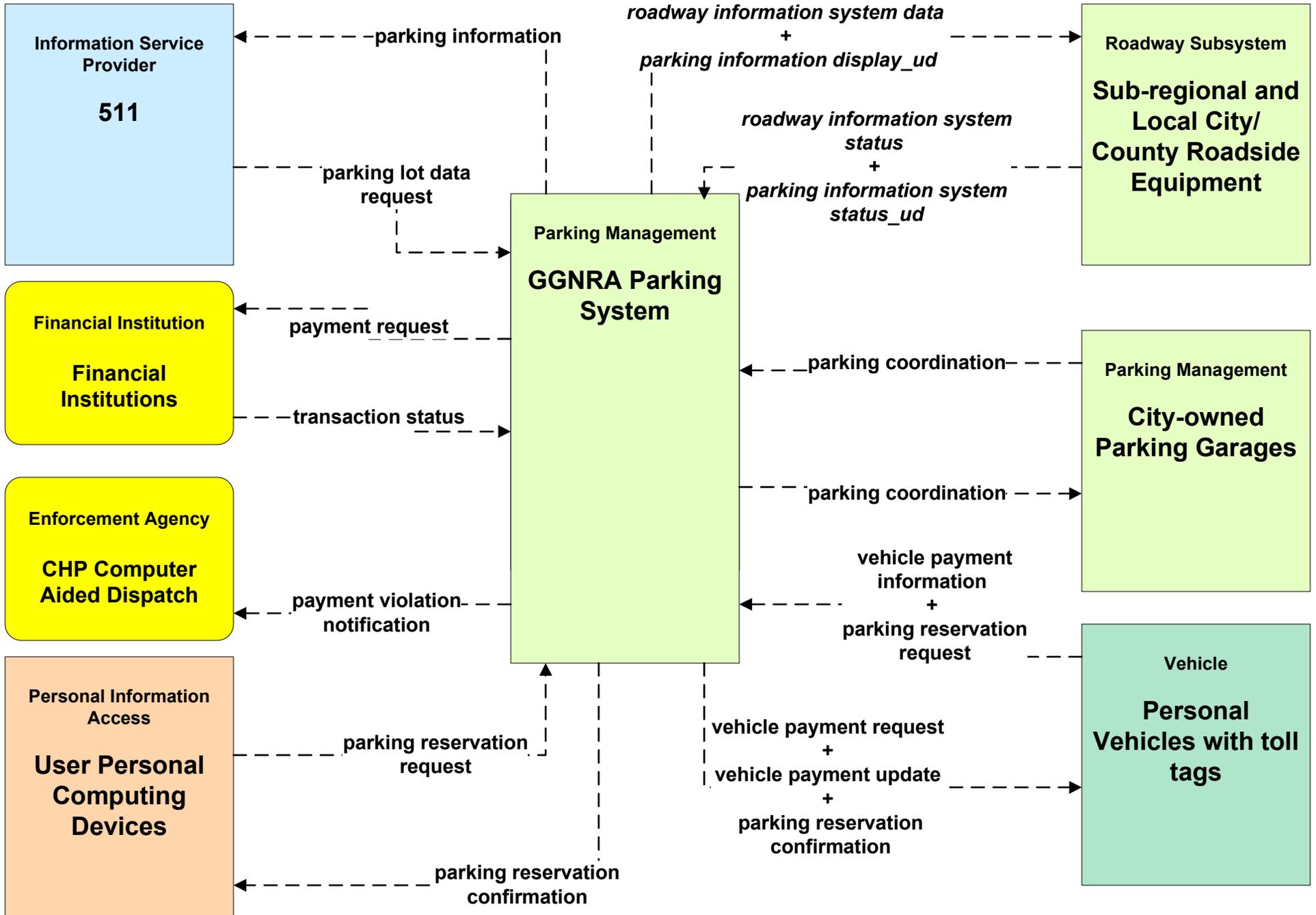


**ATMS16 - Parking Facility Management
City of San Francisco On-Street Parking**



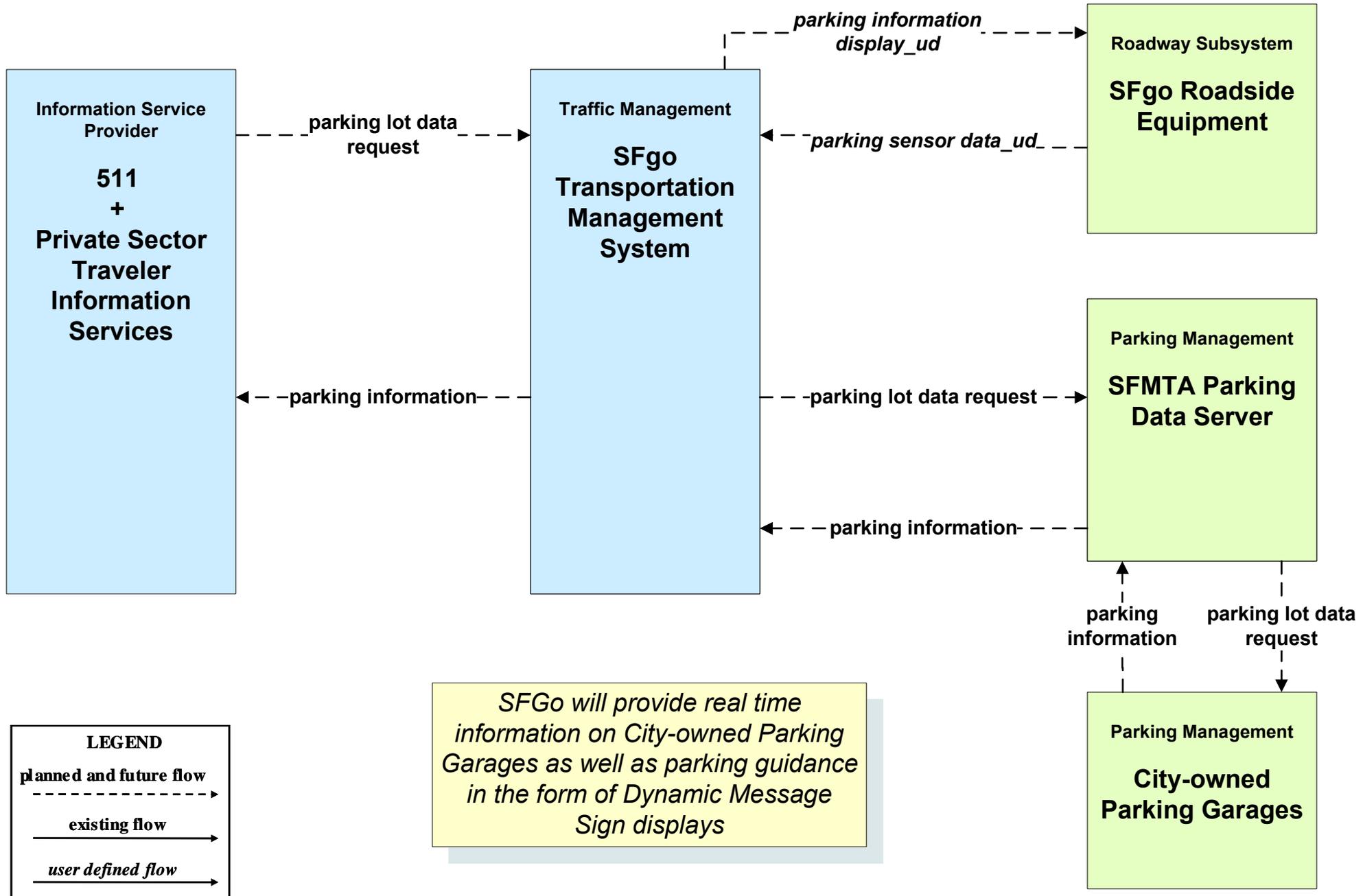
SFGO will monitor on-street parking sensors

ATMS16 - Parking Facility Management GGNRA Parking System

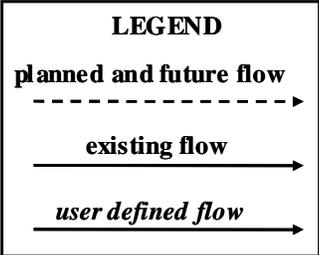
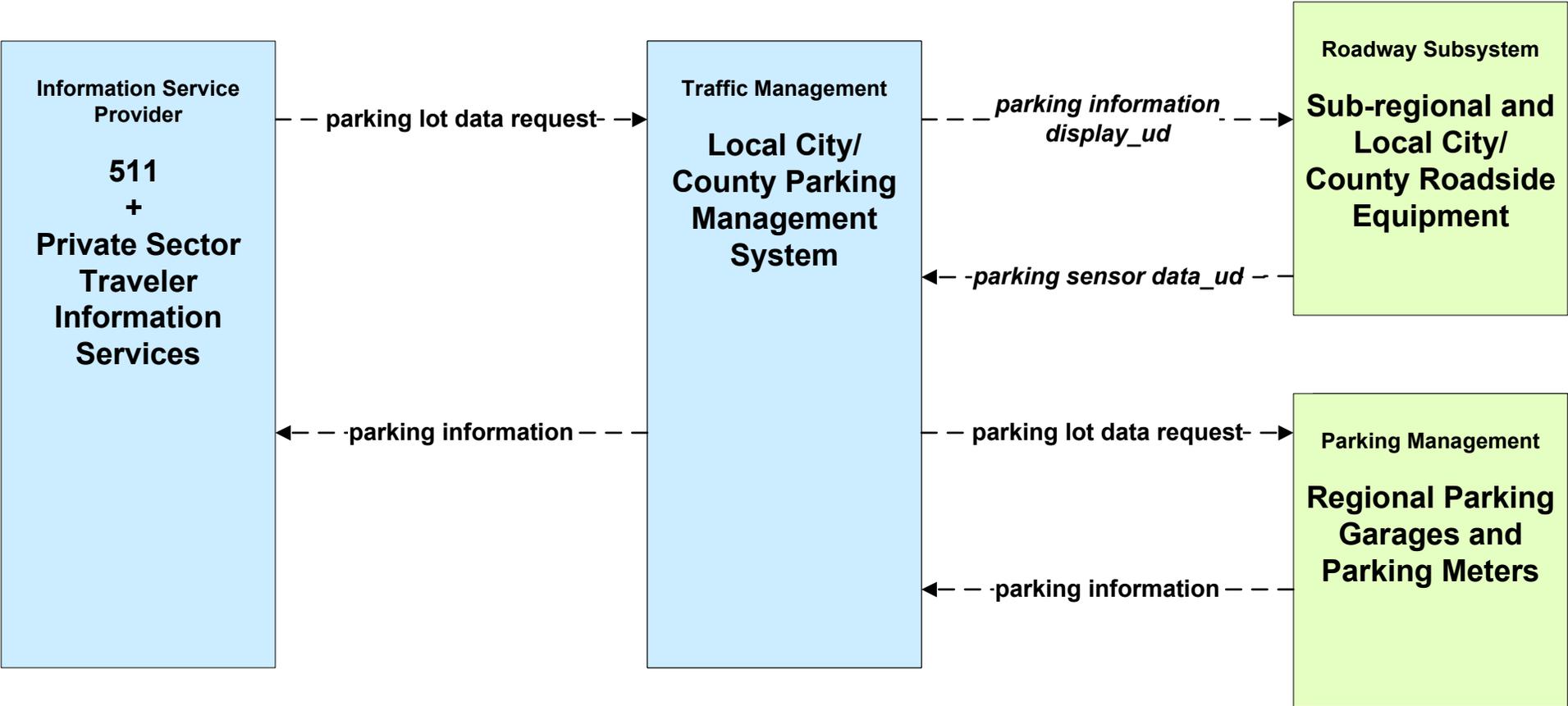


ATMS17 – Regional Parking Management

SFMTA Real Time Parking Information/ Parking Guidance

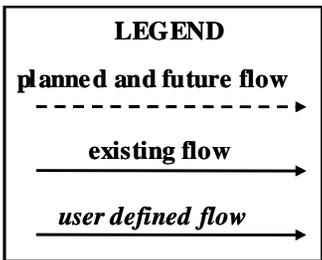
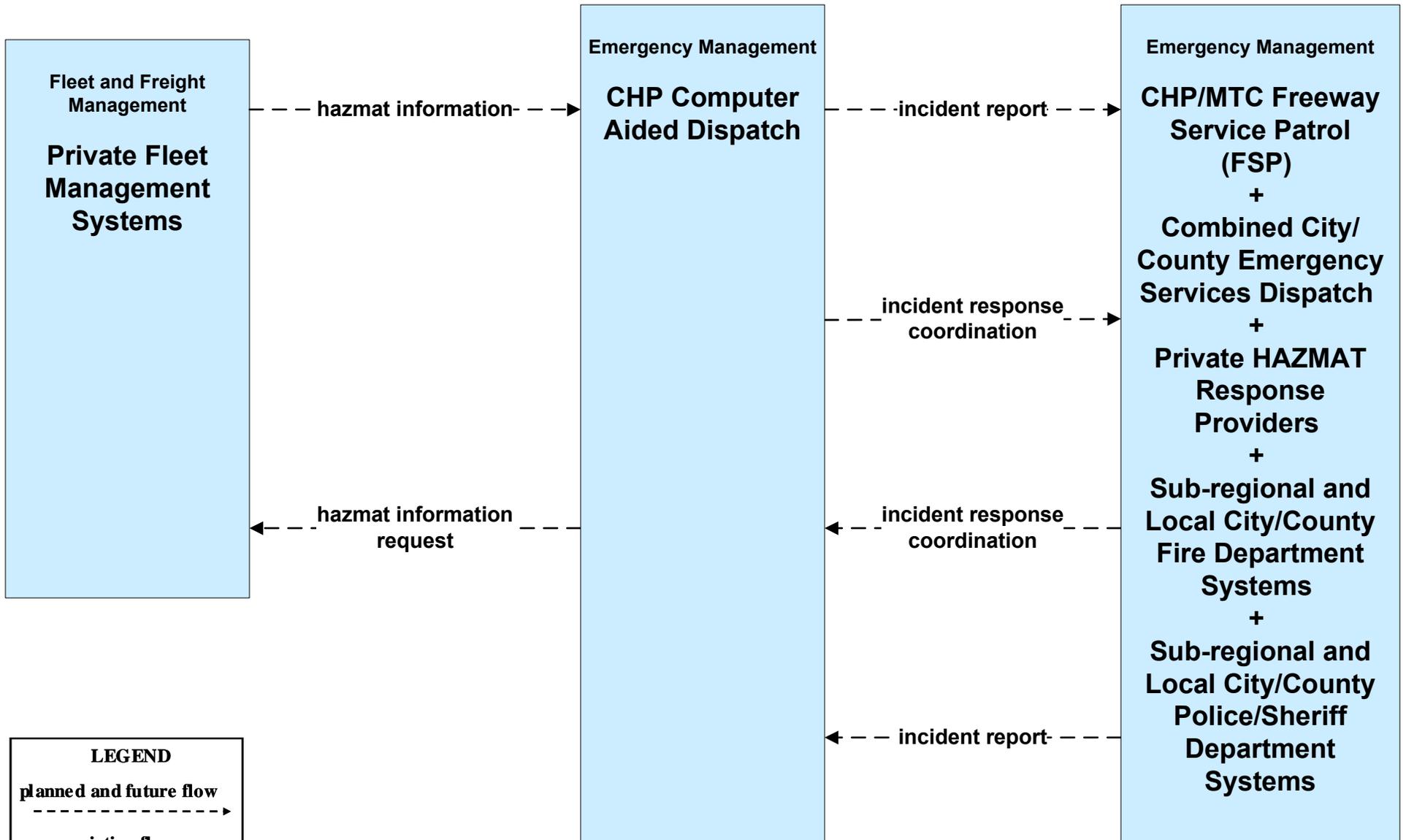


ATMS17 – Regional Parking Management
Local City/County Real Time Parking Information/ Parking Guidance

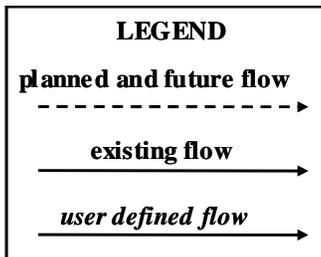
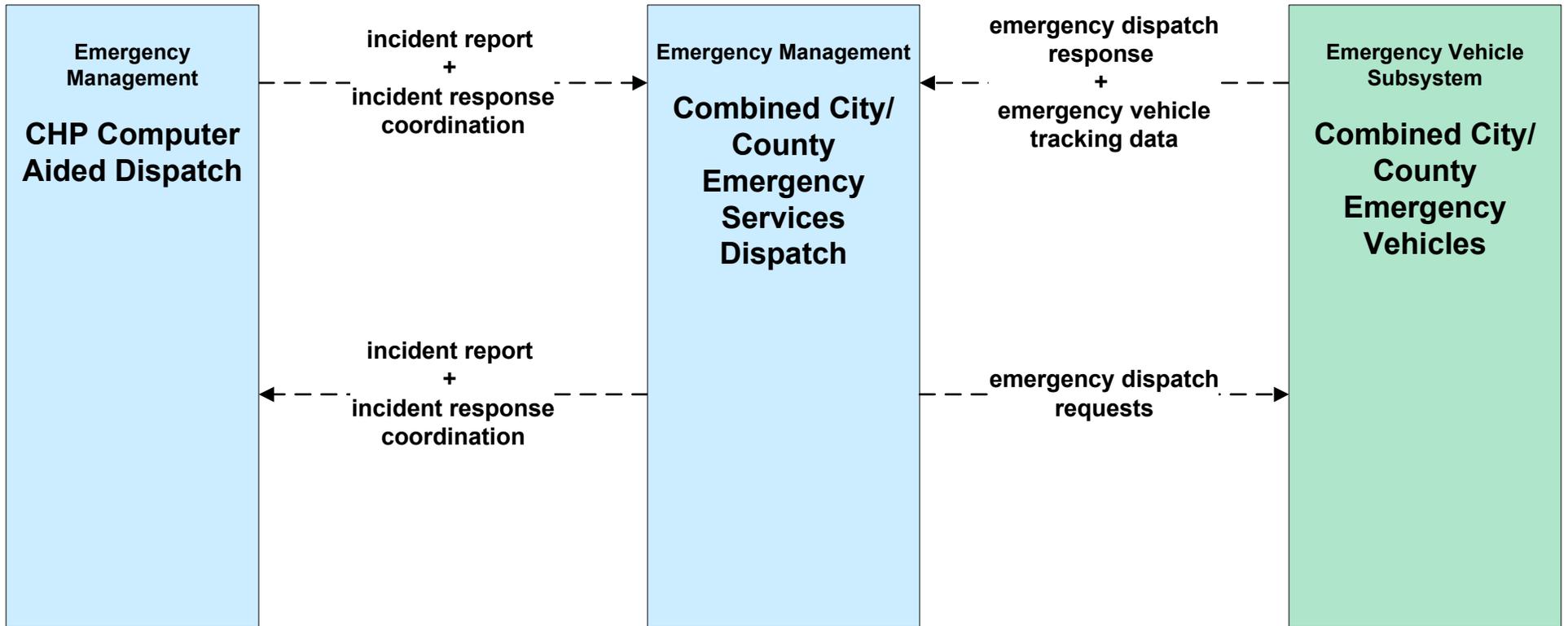


Provide real time information on Regional Parking Garages as well as parking guidance in the form of Dynamic Message Sign displays

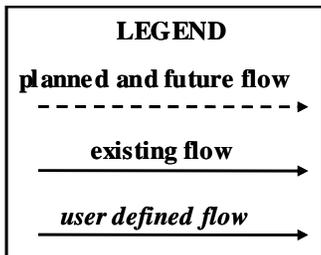
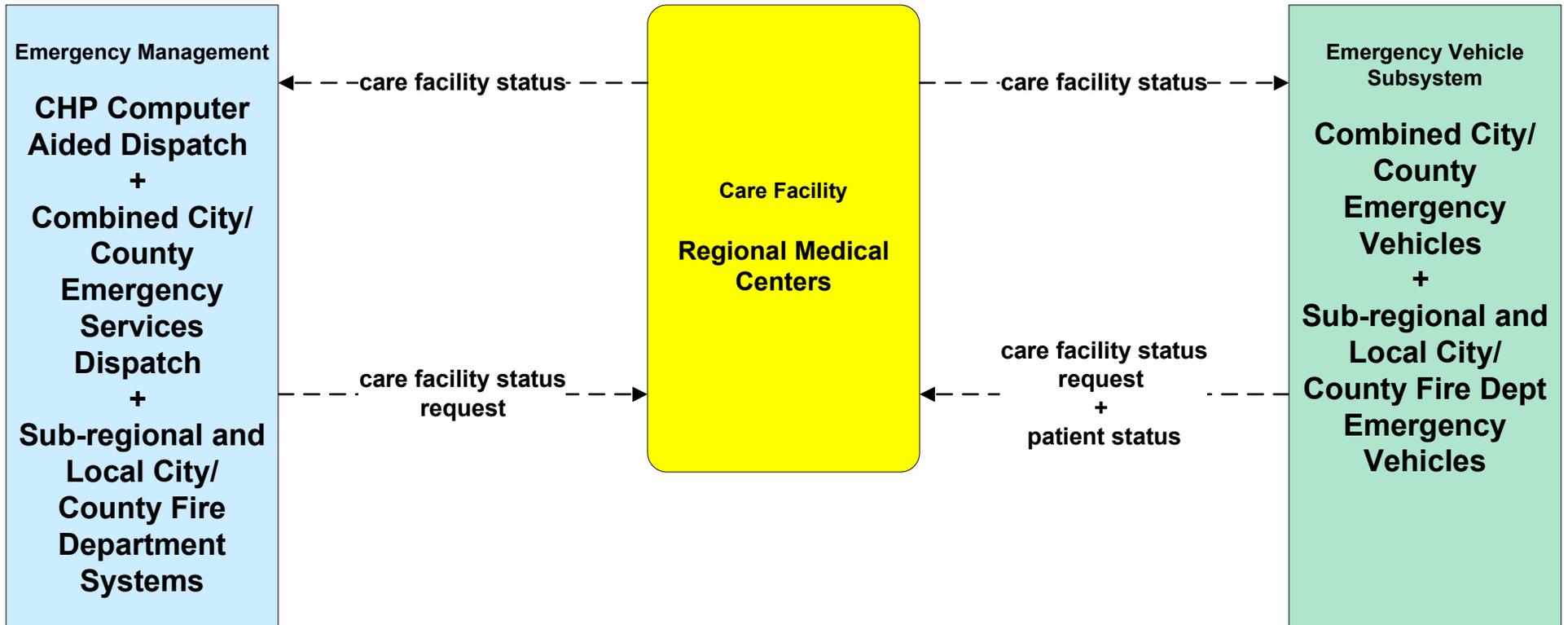
**CVO10 - HAZMAT Management
Commercial Vehicles**



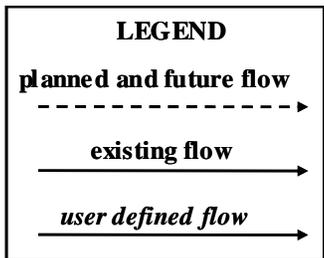
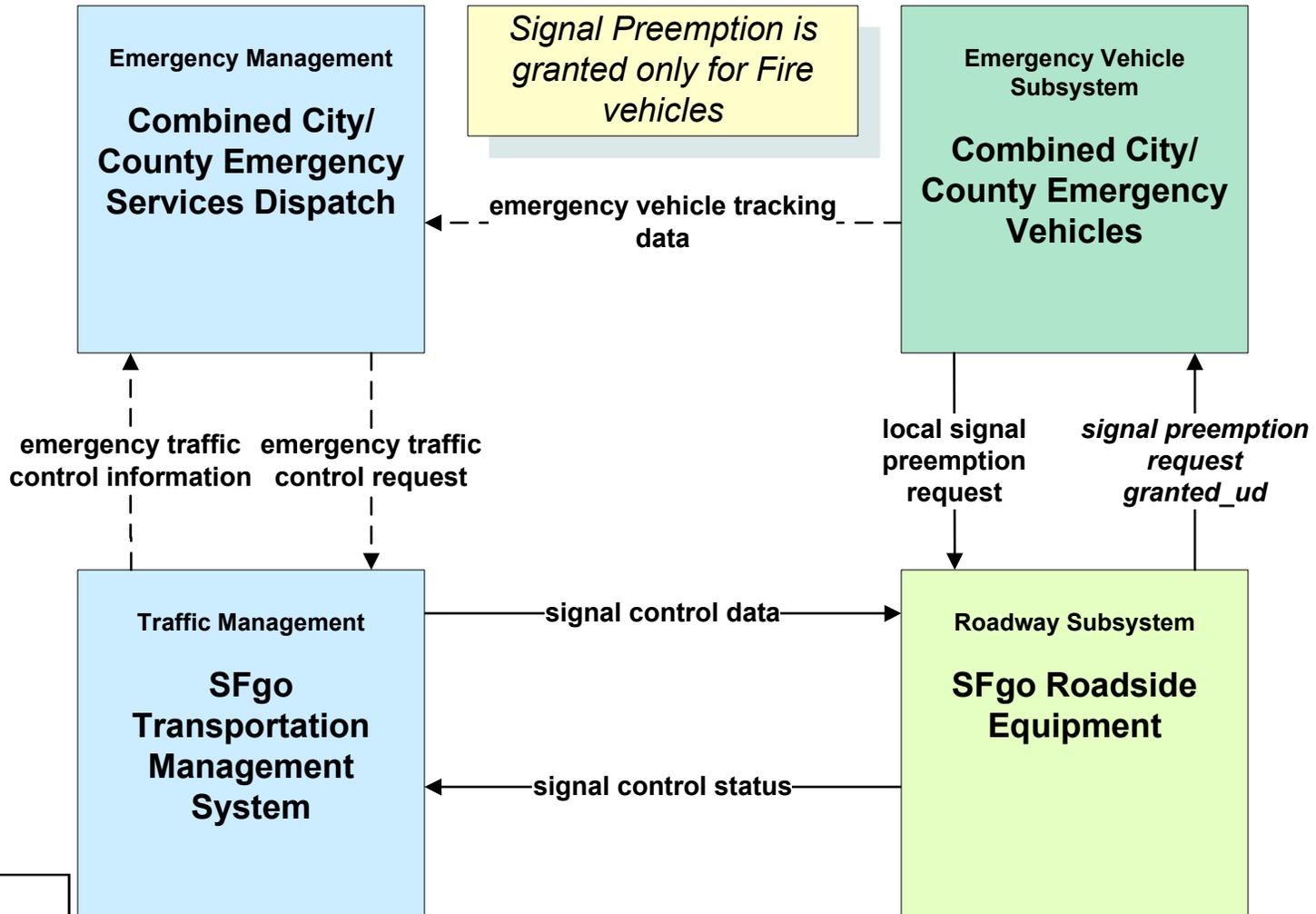
EM01 - Emergency Call-Taking and Dispatch Combined City/County Emergency Services



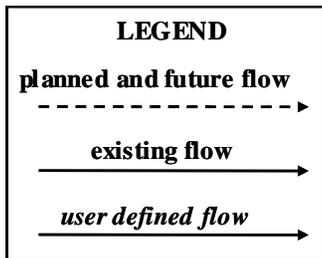
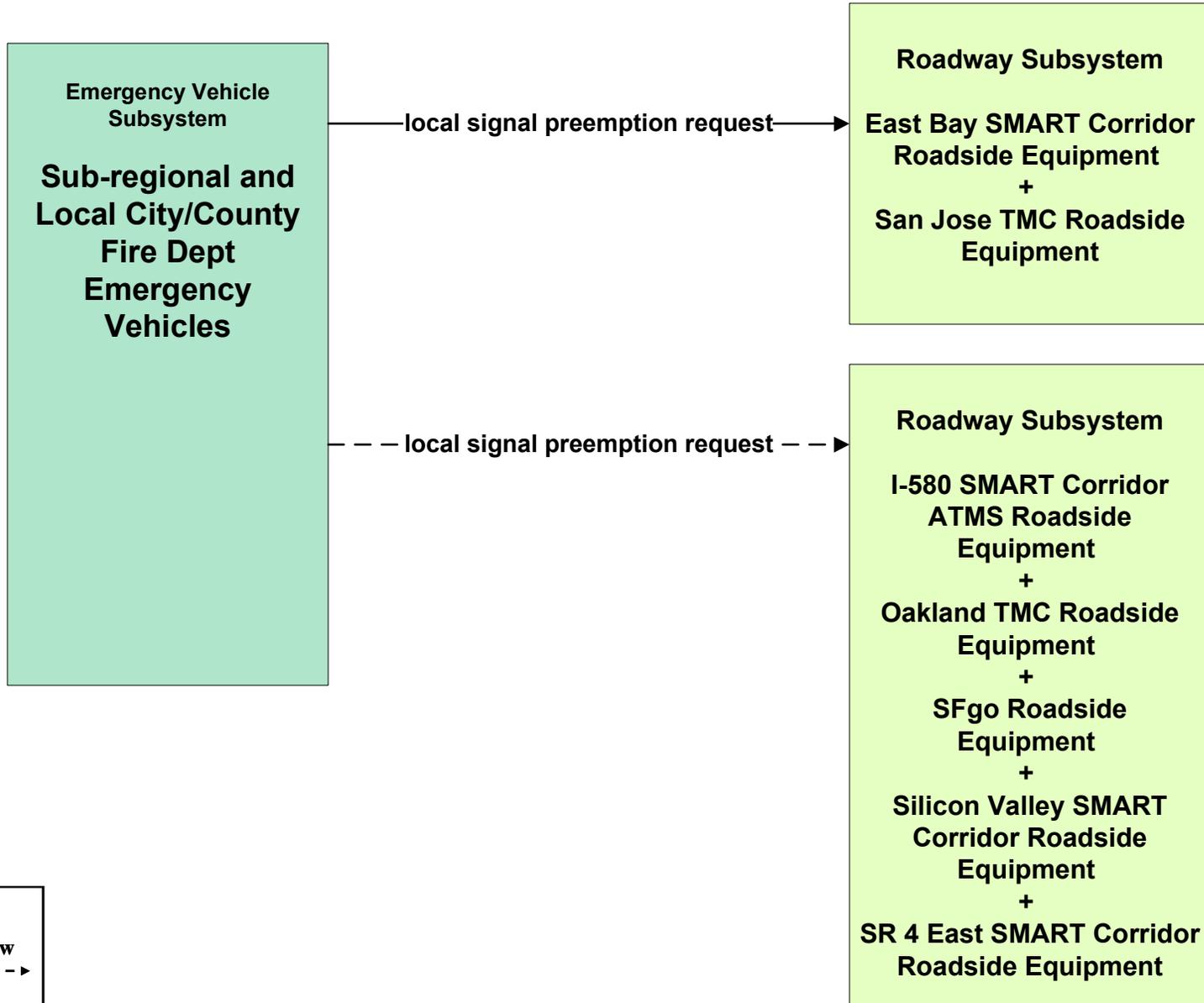
EM02 - Emergency Routing Regional Medical Centers



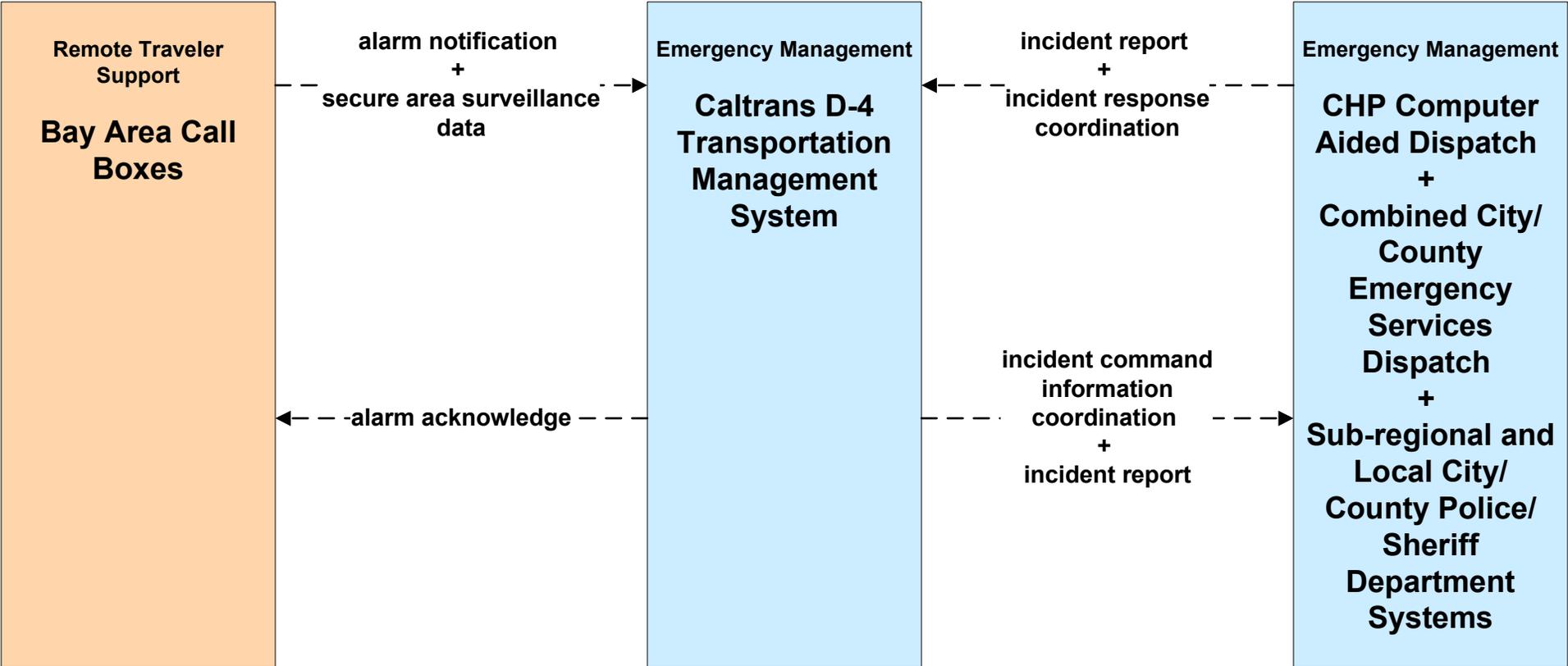
EM02 - Emergency Routing Combined City/County Emergency Vehicles



EM02 - Emergency Routing
Sub-regional and Local City/County Fire Dept Vehicles (3 of 3)



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



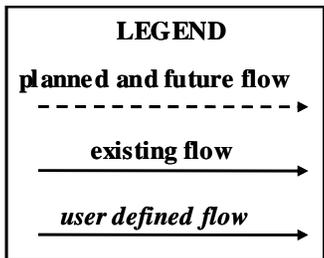
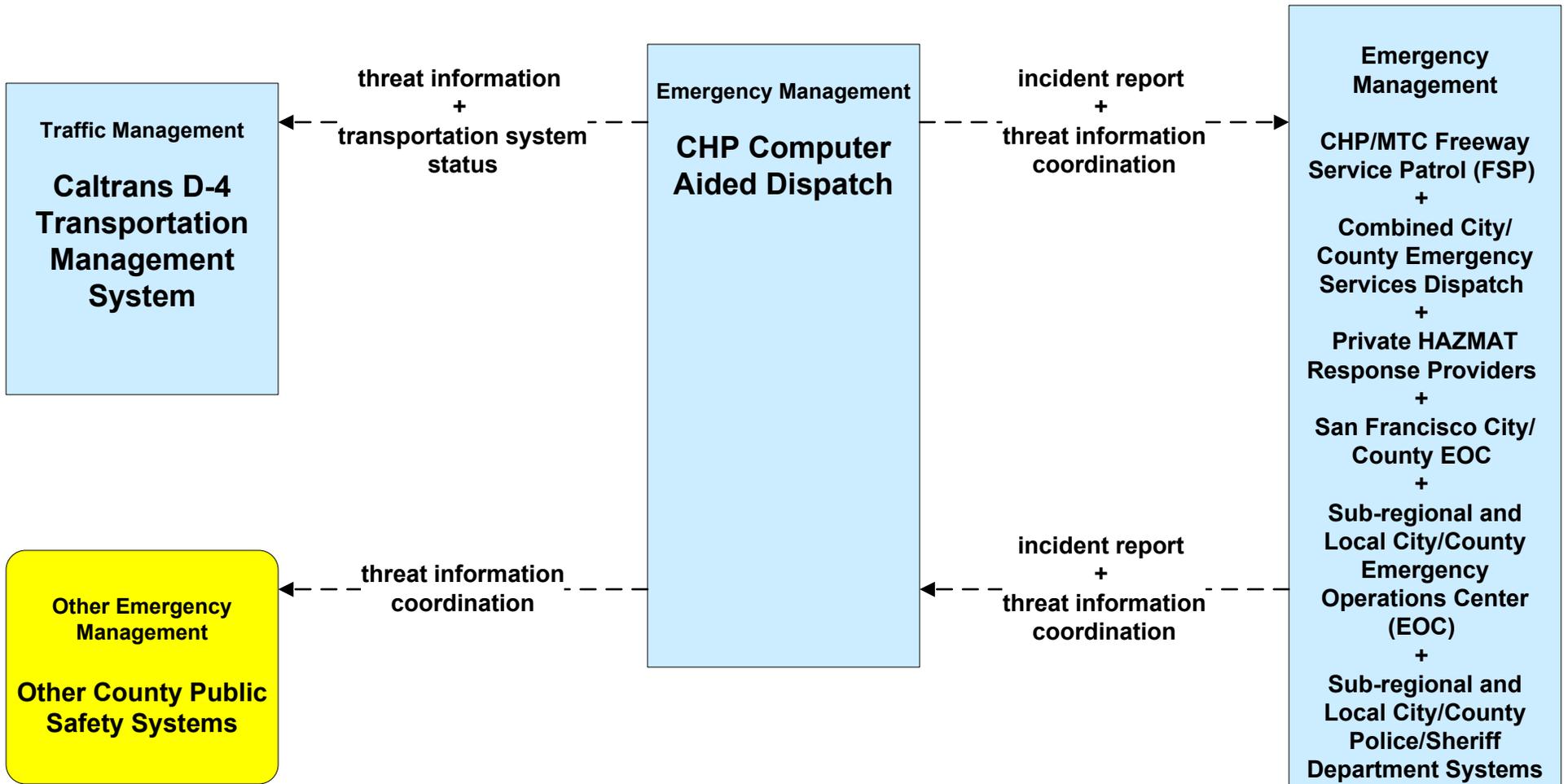
LEGEND

planned and future flow
 ----->

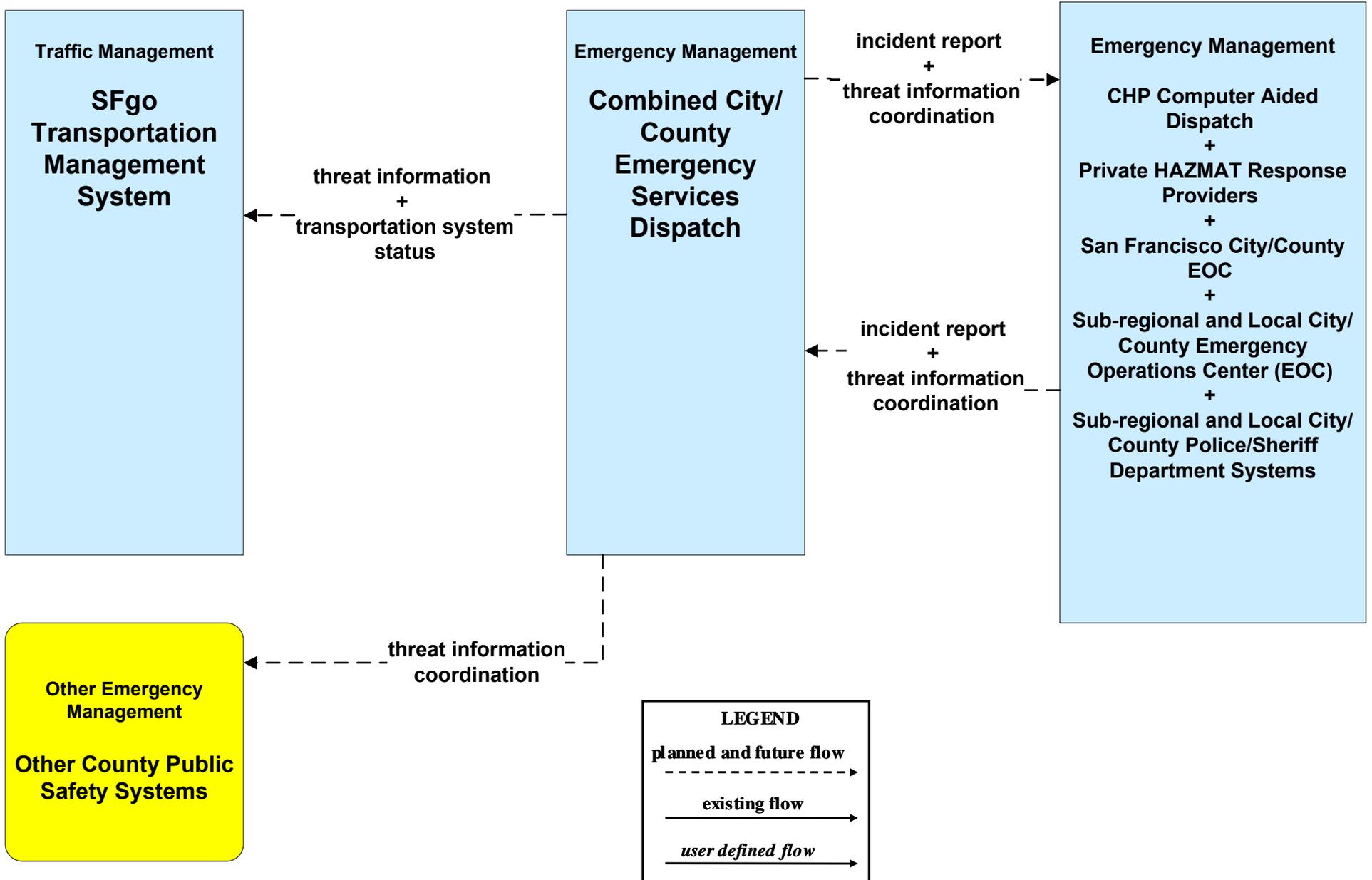
existing flow
 _____>

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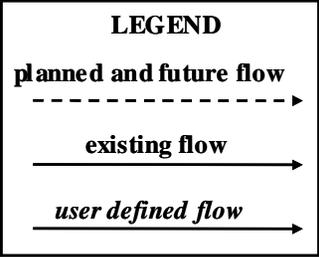
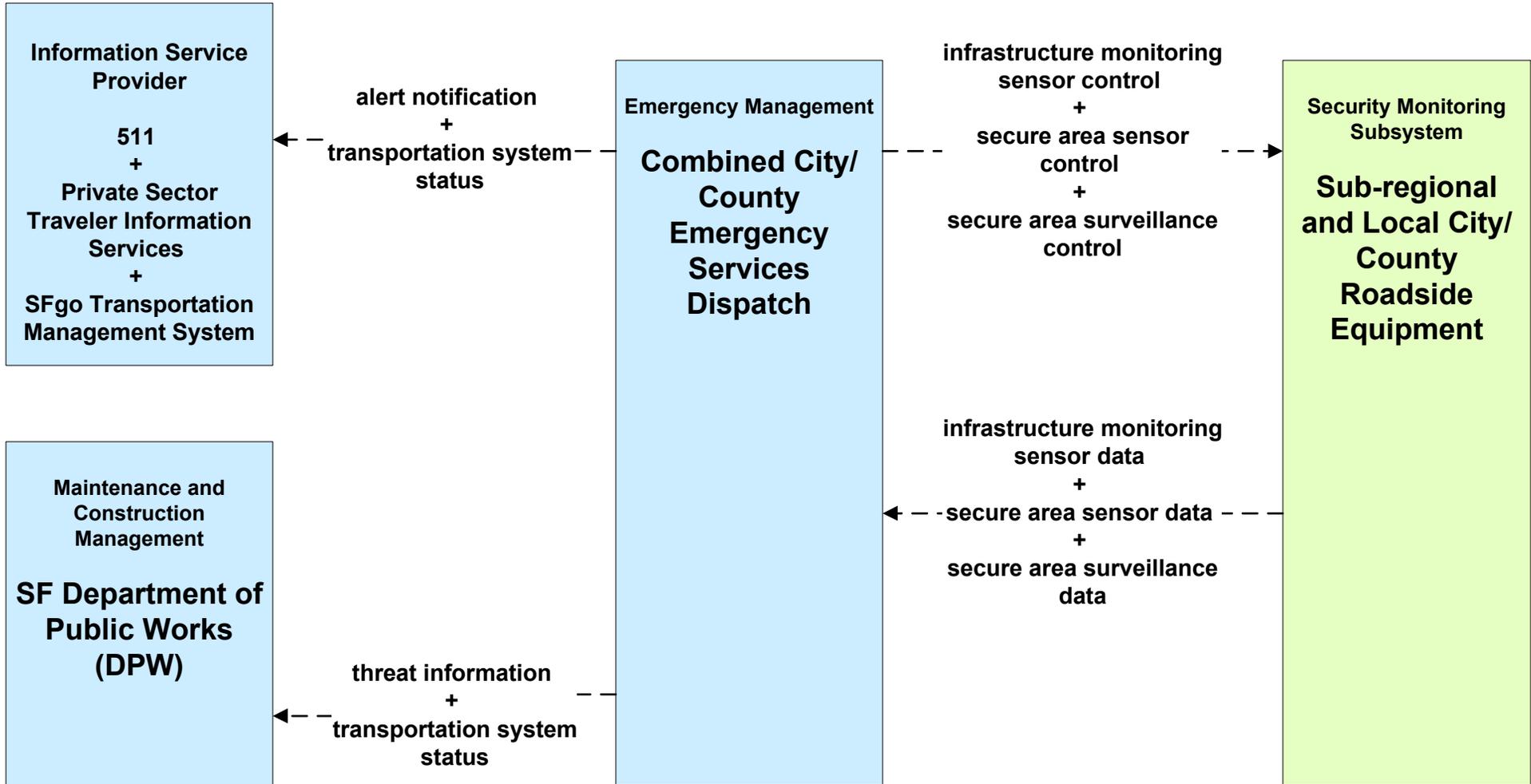
**EM05 - Transportation Infrastructure Protection
CHP – Caltrans (1 of 2)**



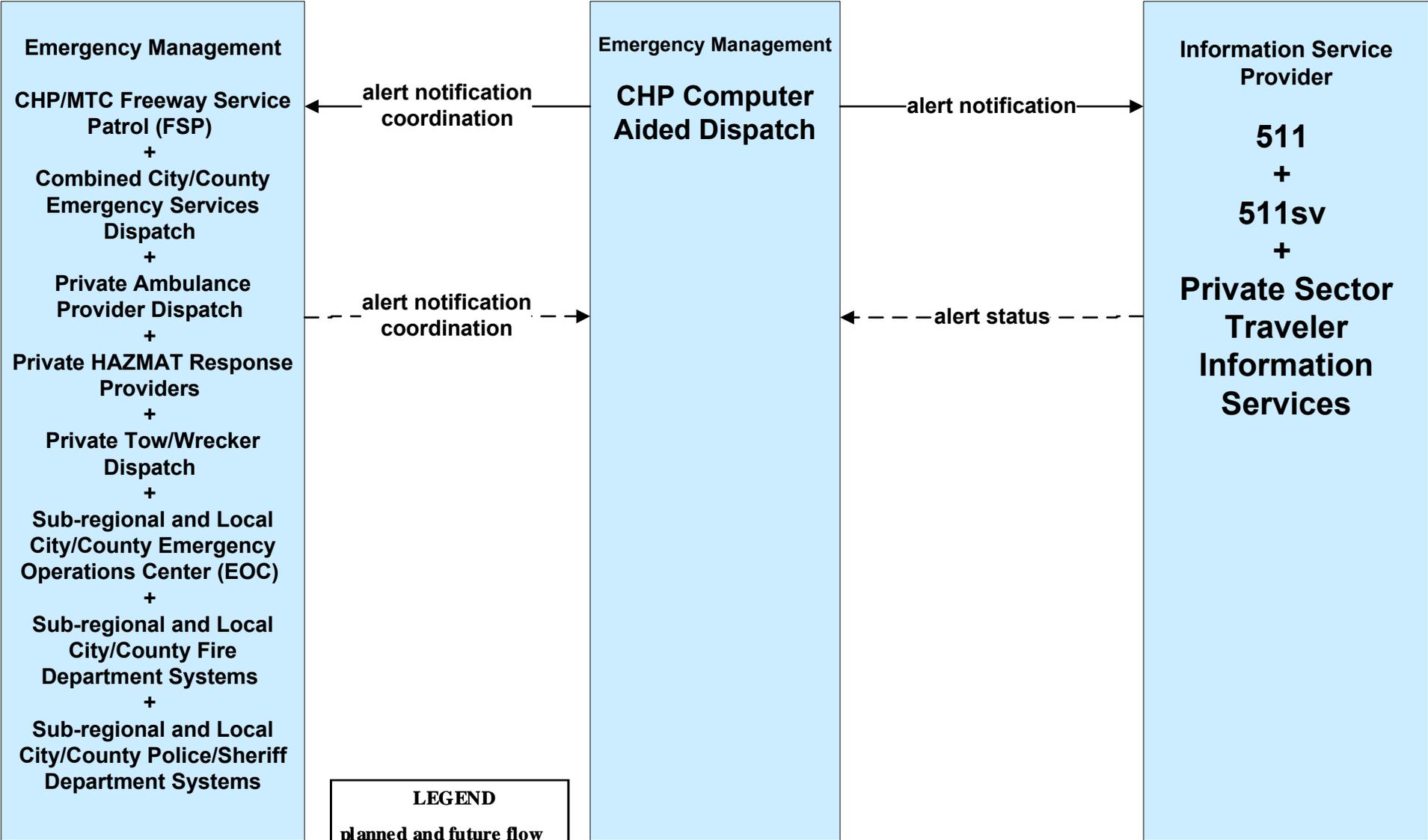
**EM05 - Transportation Infrastructure Protection
City of San Francisco (1 of 2)**



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



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



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

Maintenance and Construction Management

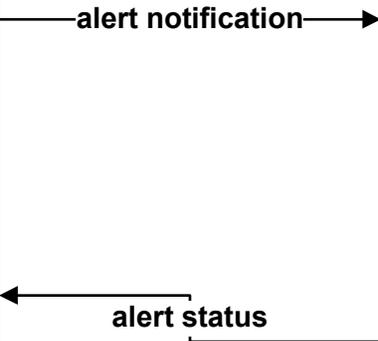
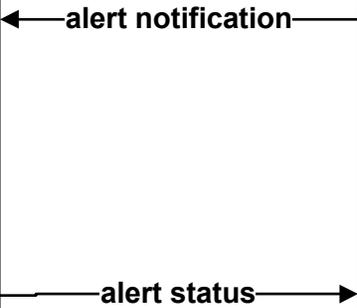
- Alameda County Public Works
- +
- Bay Area Incident Response System (BAIRS)
- +
- Caltrans D-4 Maintenance and Construction Operations
- +
- Oakland Maintenance and Construction Operations
- +
- San Jose Maintenance and Construction Operations
- +
- SF Department of Public Works (DPW)
- +
- Sub-regional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

Emergency Management

CHP Computer Aided Dispatch

Traffic Management

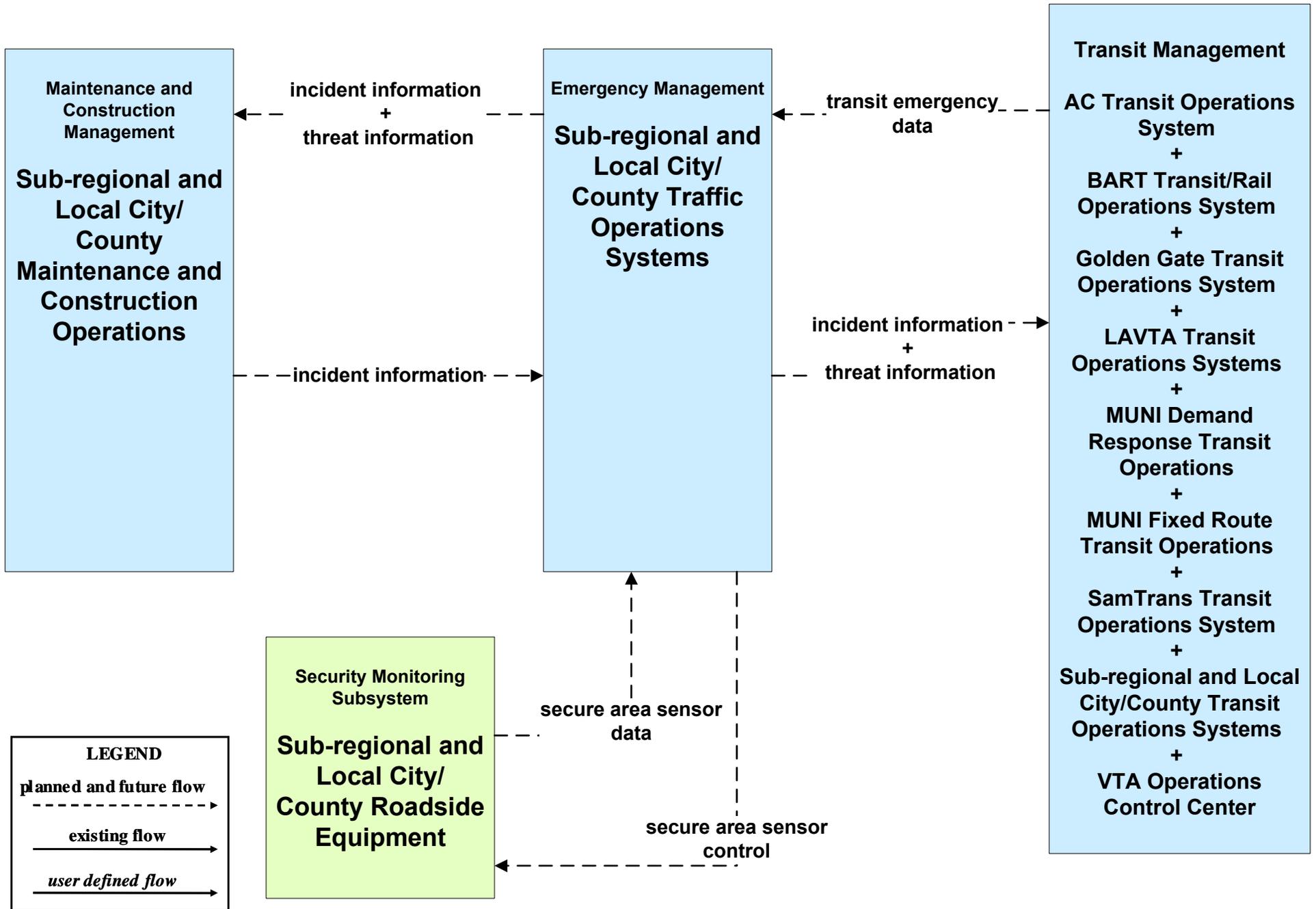
- Alameda County Transportation Management Center
- +
- Caltrans D-4 Transportation Management System
- +
- East Bay SMART Corridor ATMS
- +
- I-580 SMART Corridor ATMS
- +
- Oakland Transportation Management System
- +
- San Jose Transportation Management System
- +
- SFgo Transportation Management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



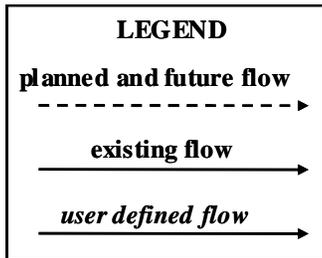
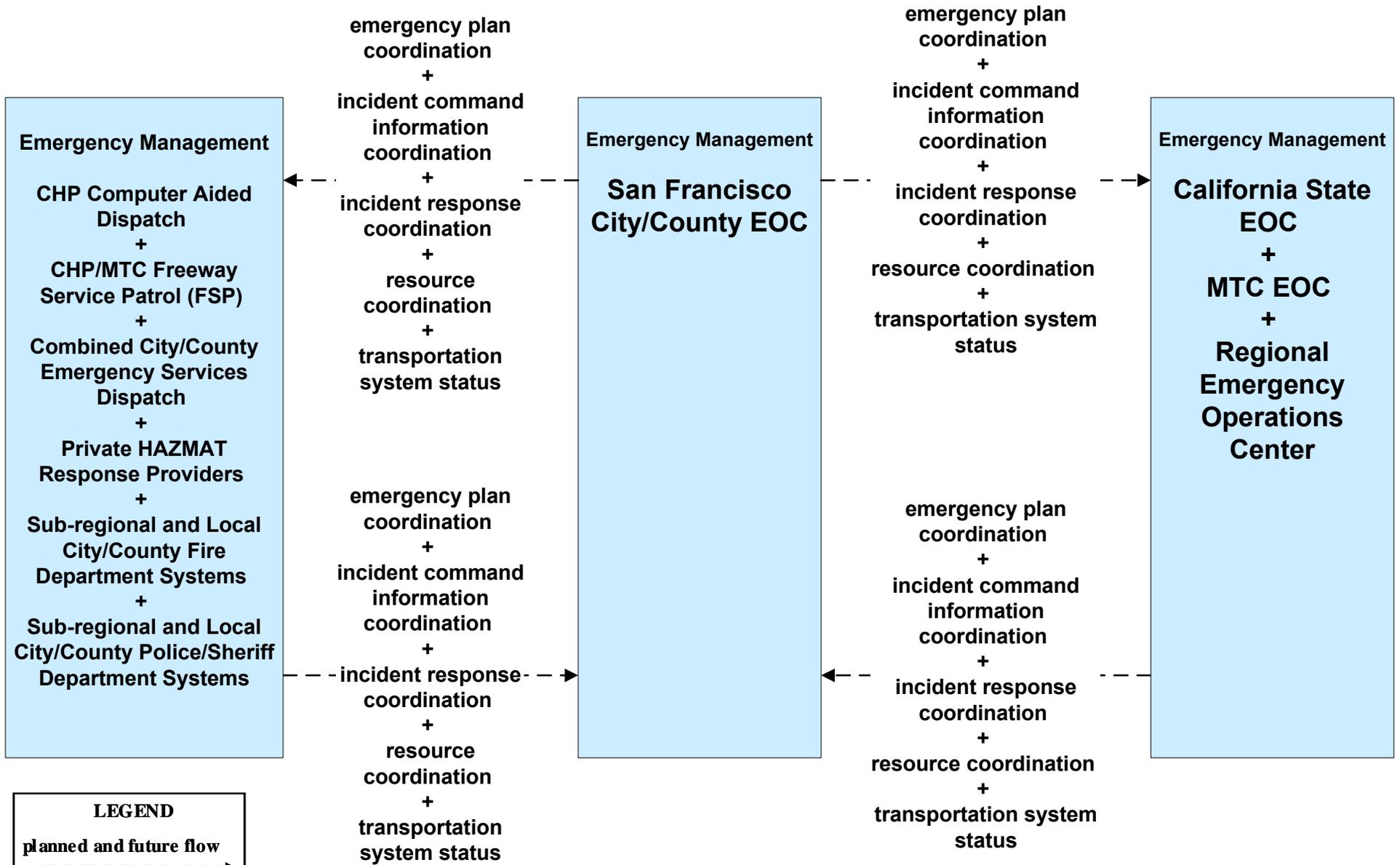
LEGEND

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

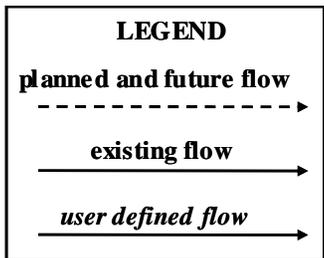
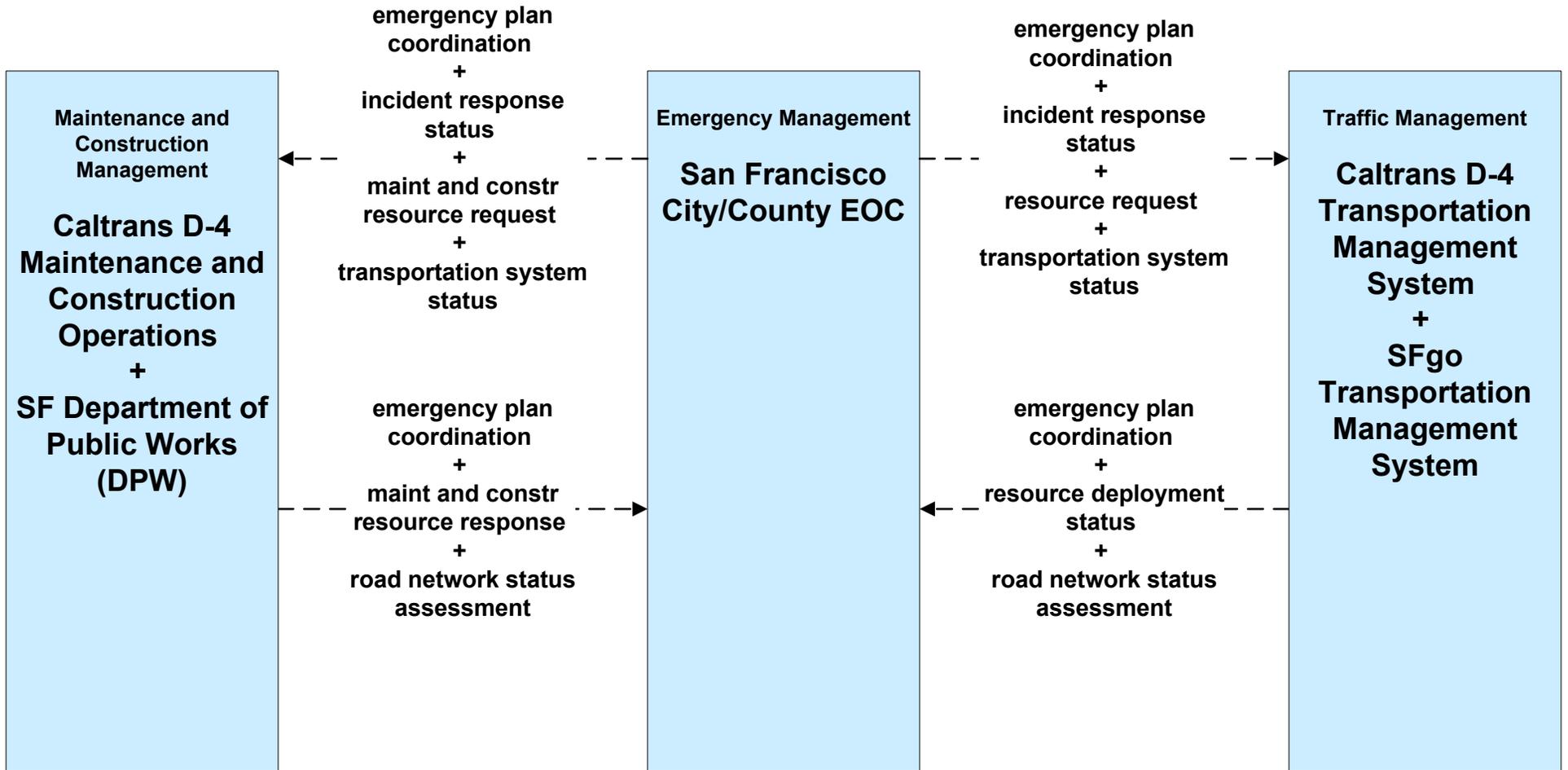
EM07 - Early Warning System Local City/County Flood Monitoring System



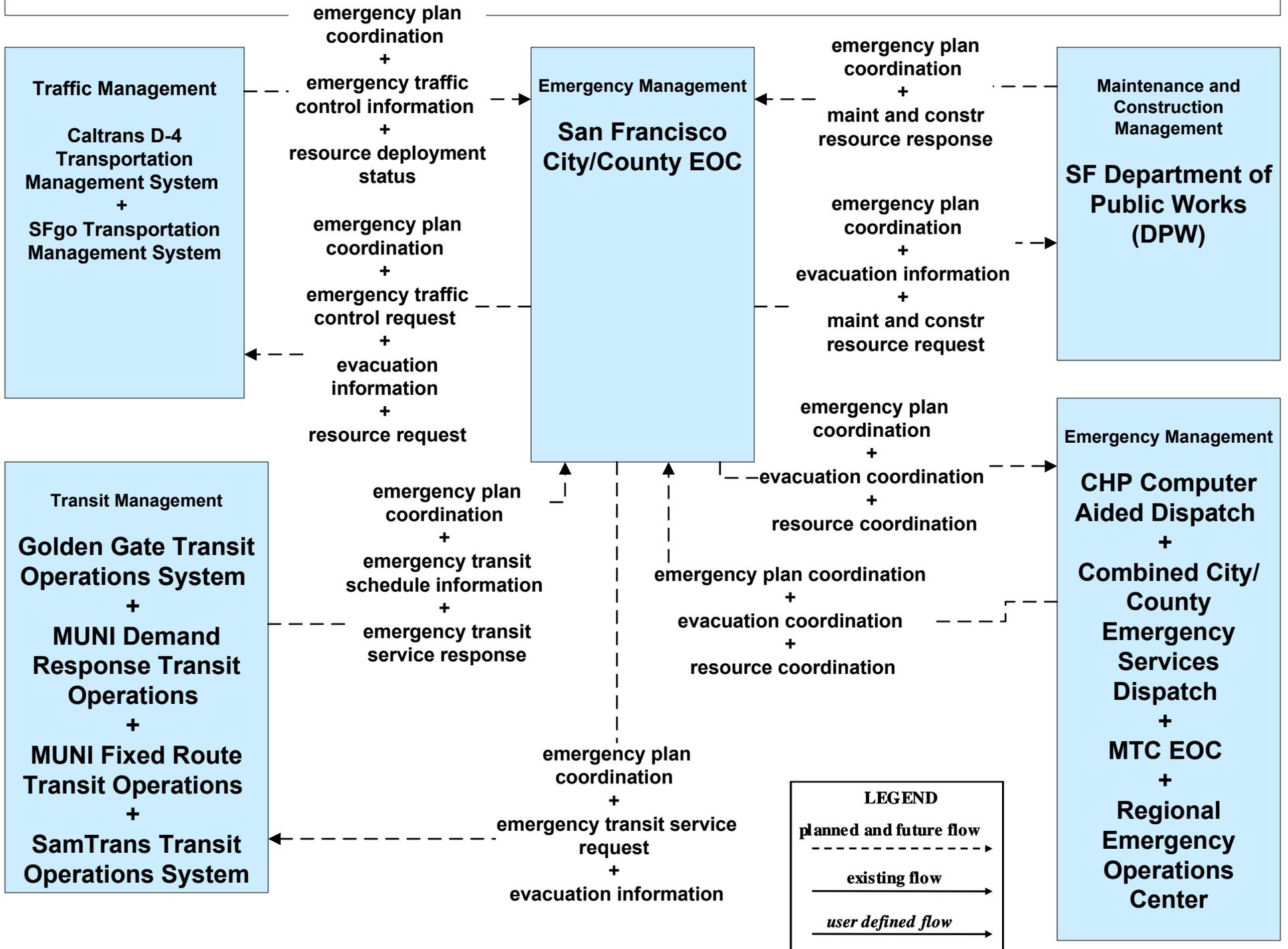
**EM08 - Disaster Response and Recovery
San Francisco City/County EOC (1 of 2)**



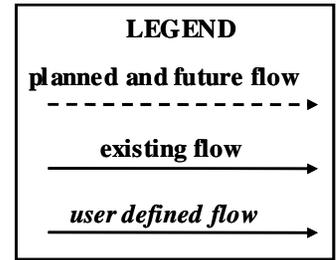
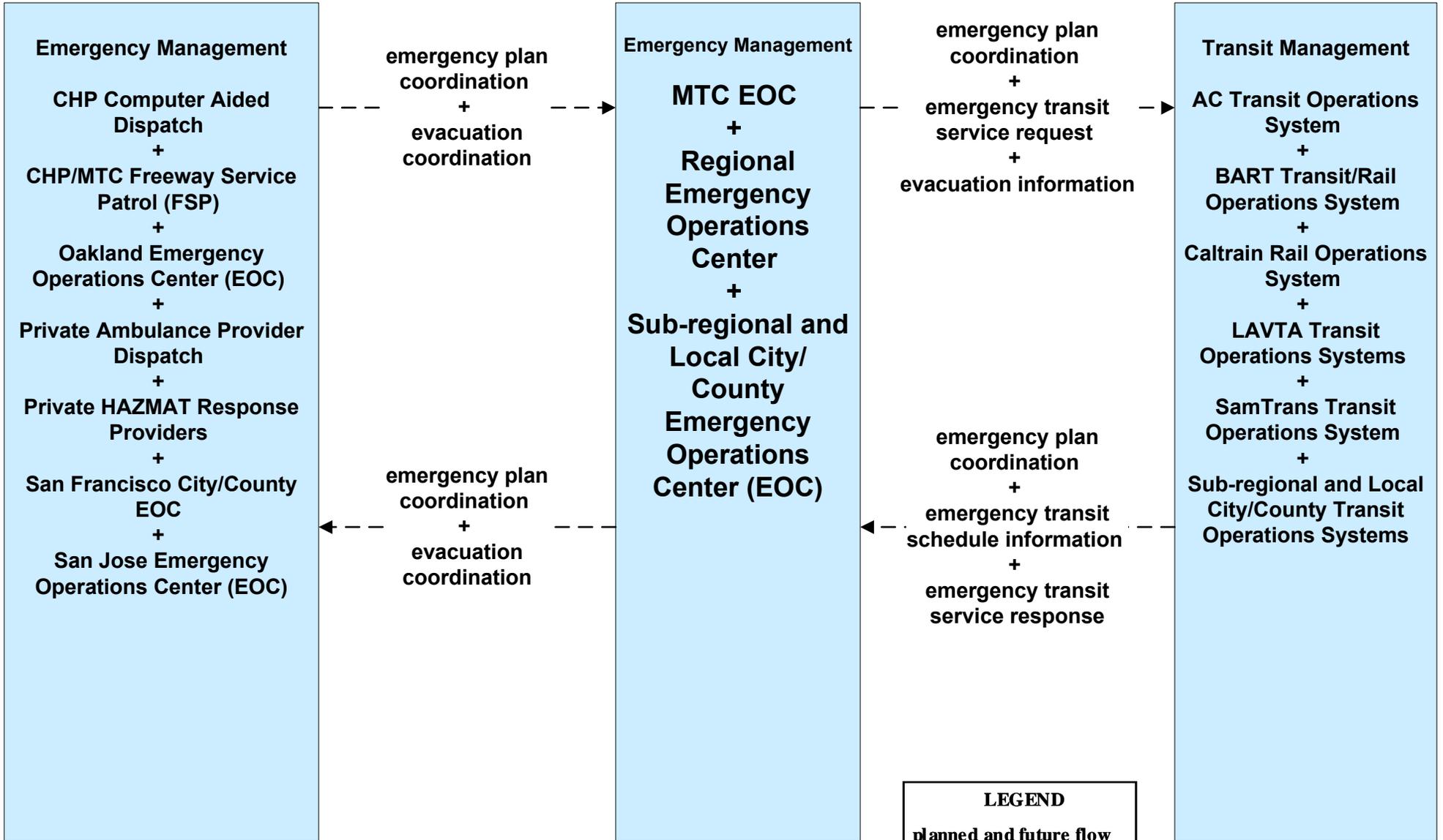
**EM08 - Disaster Response and Recovery
San Francisco City/County EOC (2 of 2)**



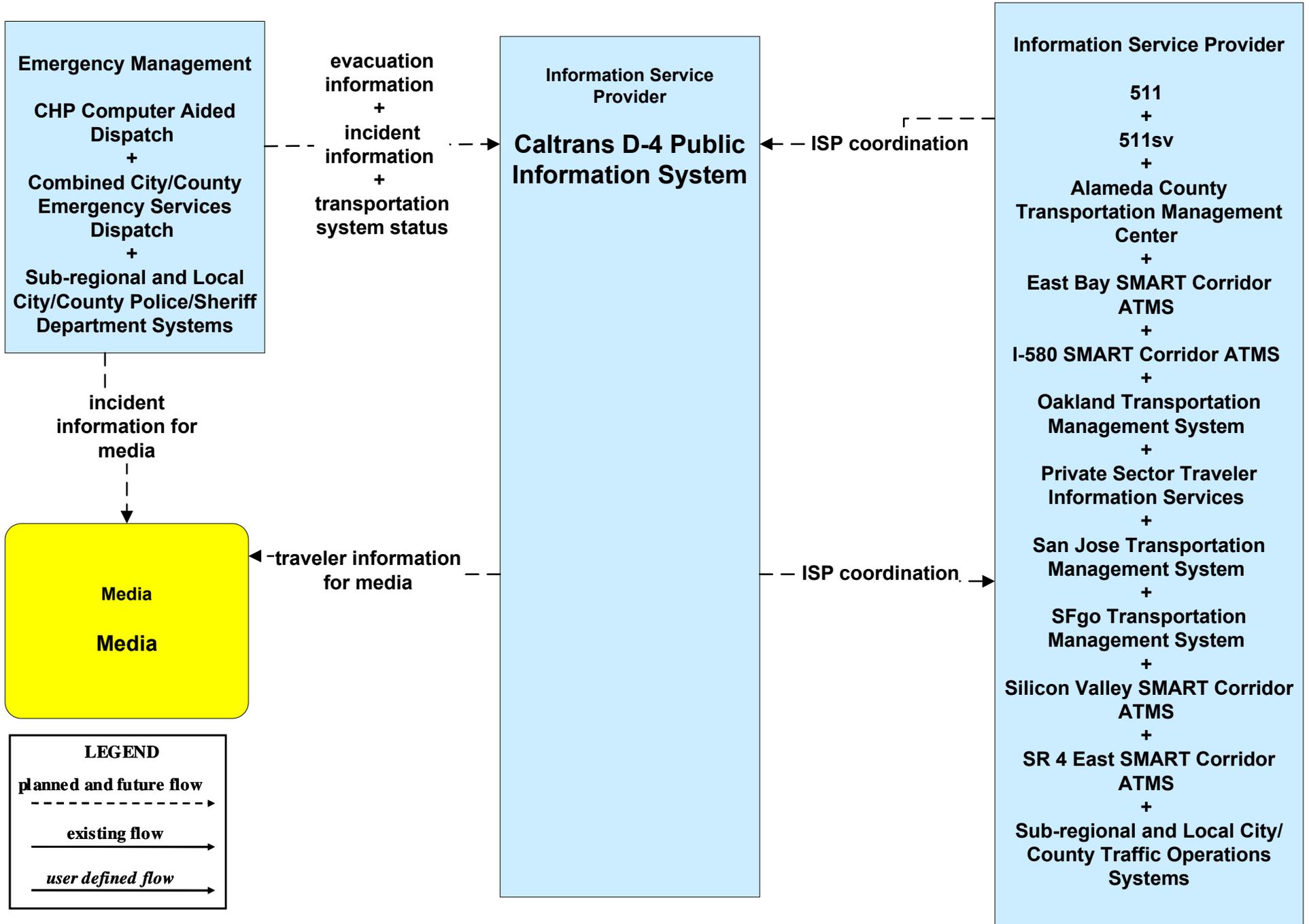
EM09 - Evacuation and Reentry Management San Francisco City/County EOC



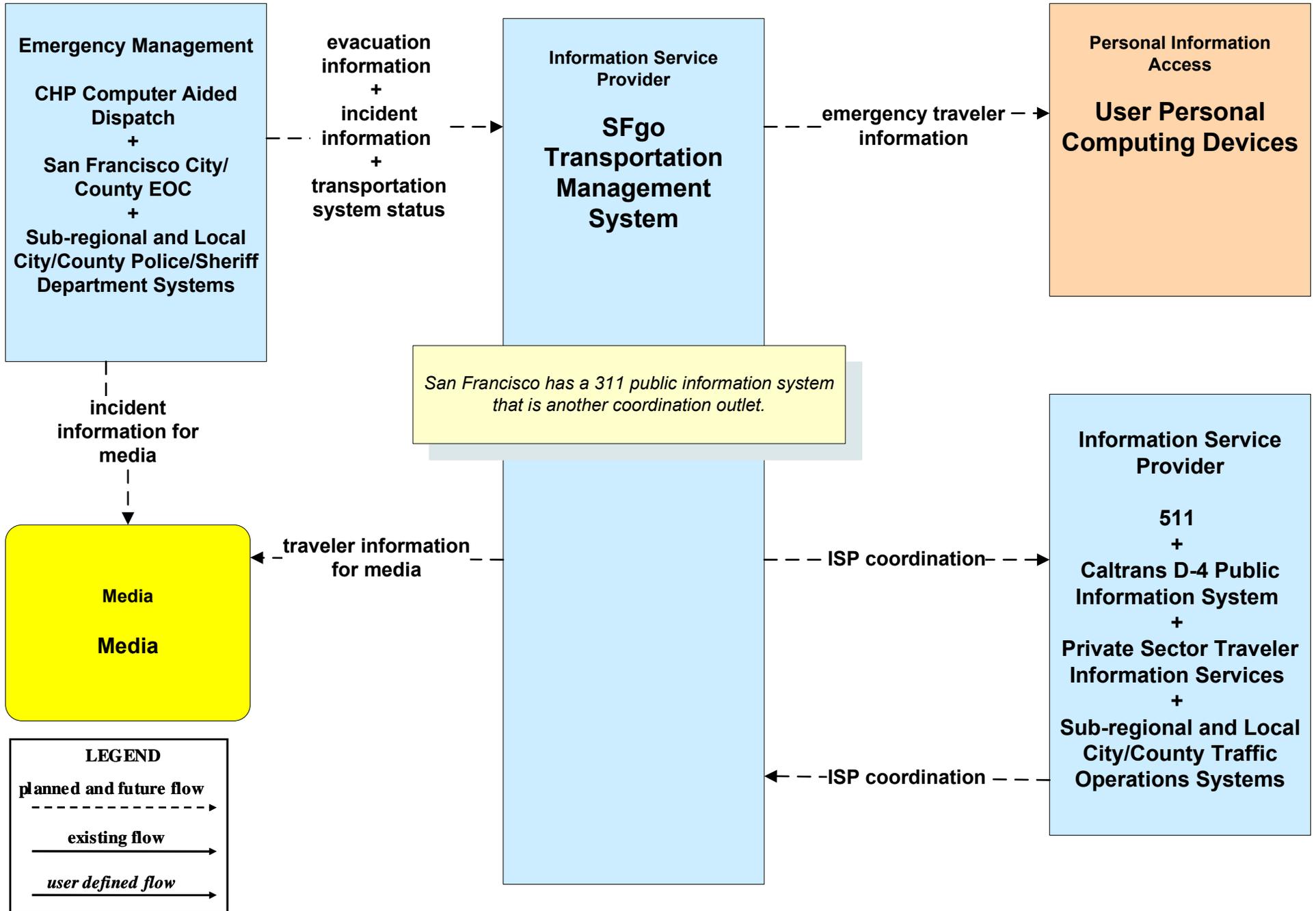
**EM09 - Evacuation and Reentry Management
Local City/County/Regional EOC (1 of 2)**



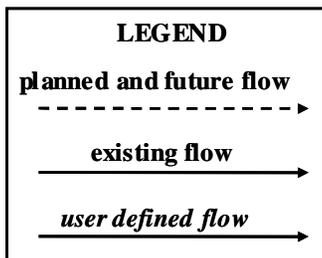
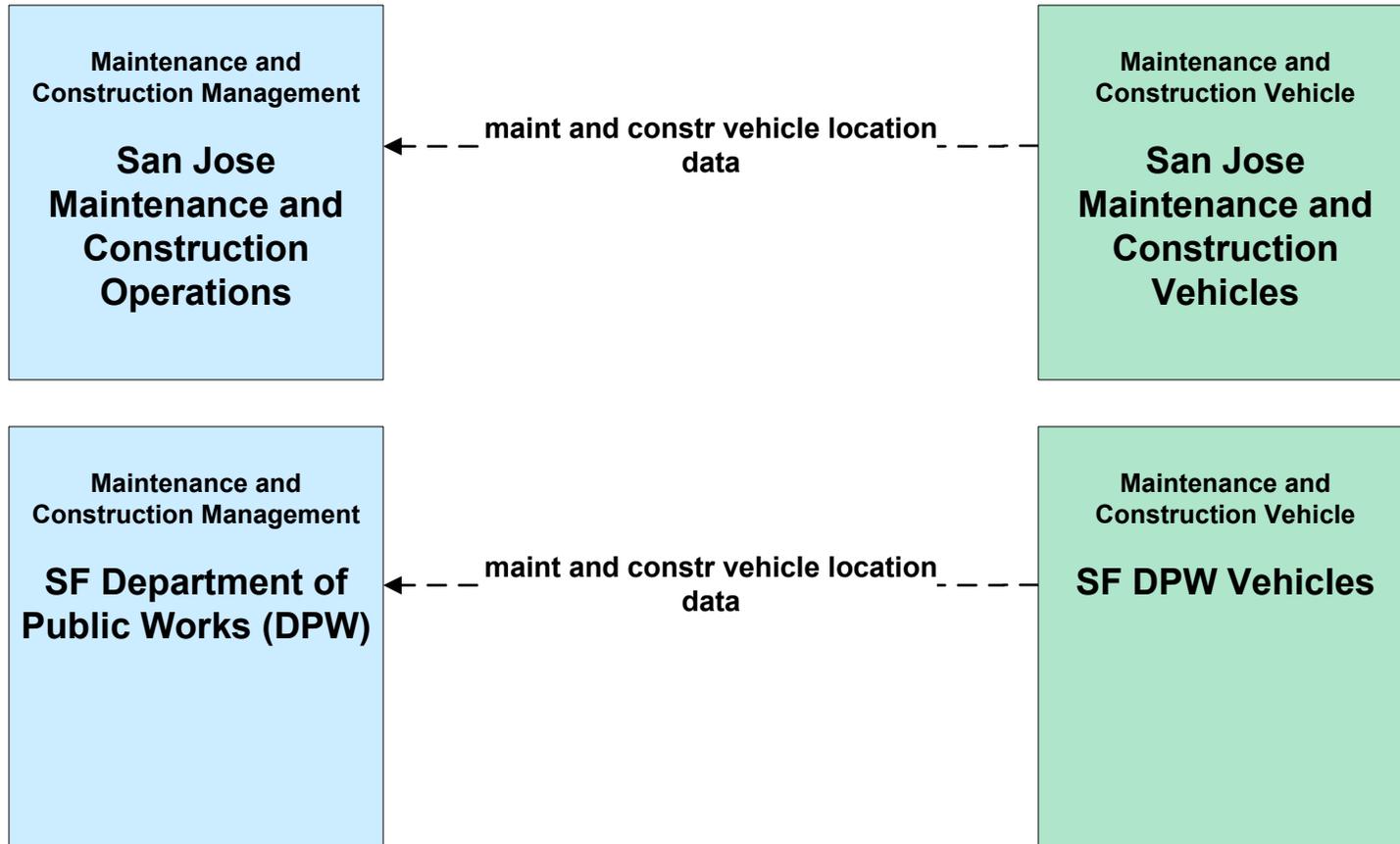
EM10 - Disaster Traveler Information Caltrans D-4 Public Information Office



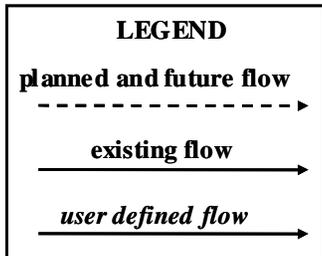
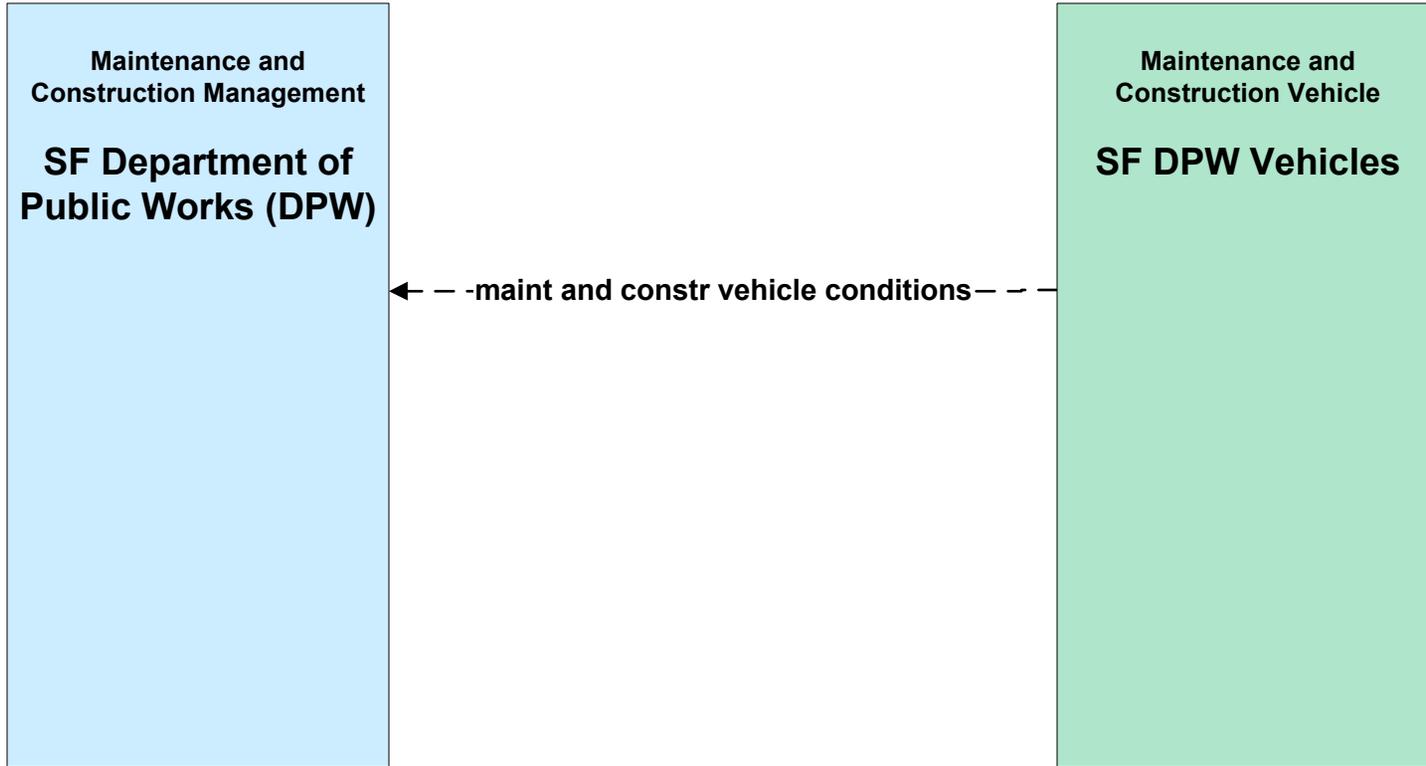
EM10 - Disaster Traveler Information San Francisco



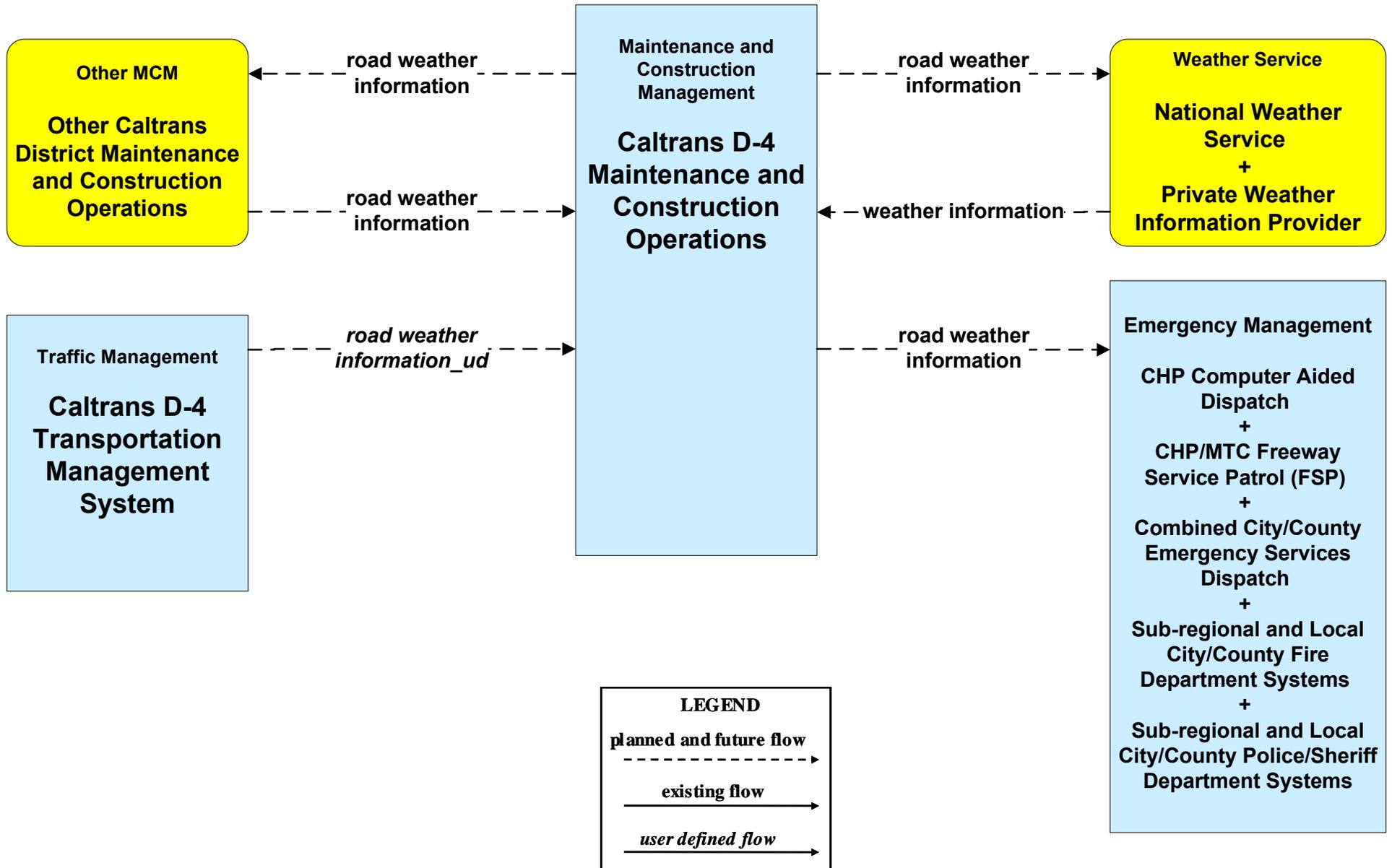
**MC01 - Maintenance and Construction Vehicle and Equipment Tracking
BIA and Tribal**



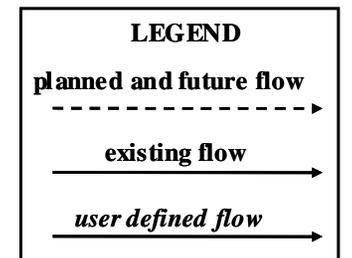
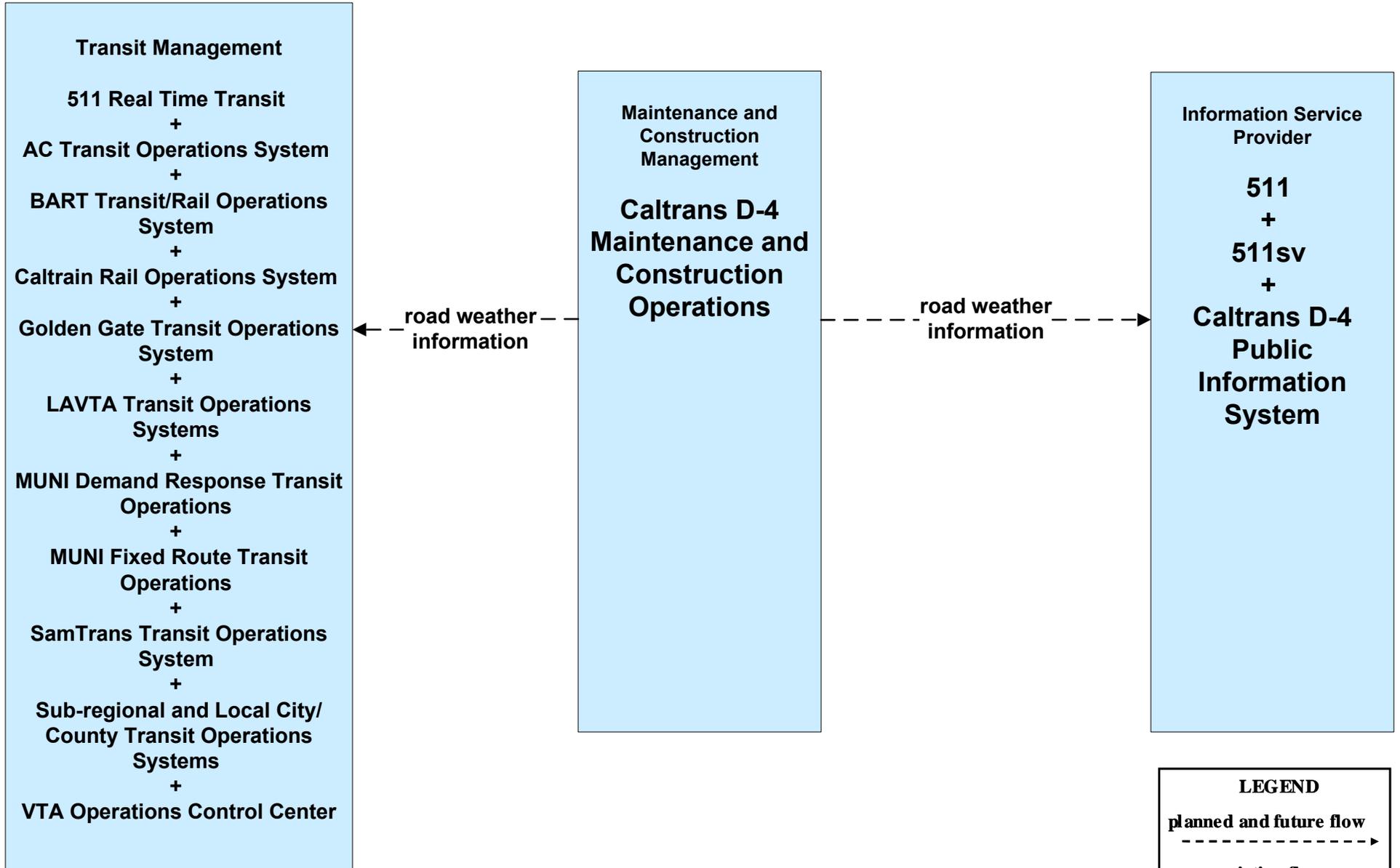
**MC02 - Maintenance and Construction Vehicle Maintenance
San Francisco DPW**



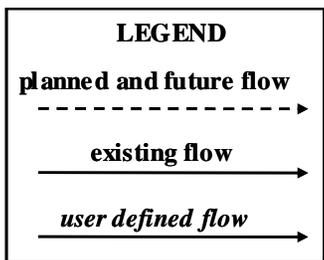
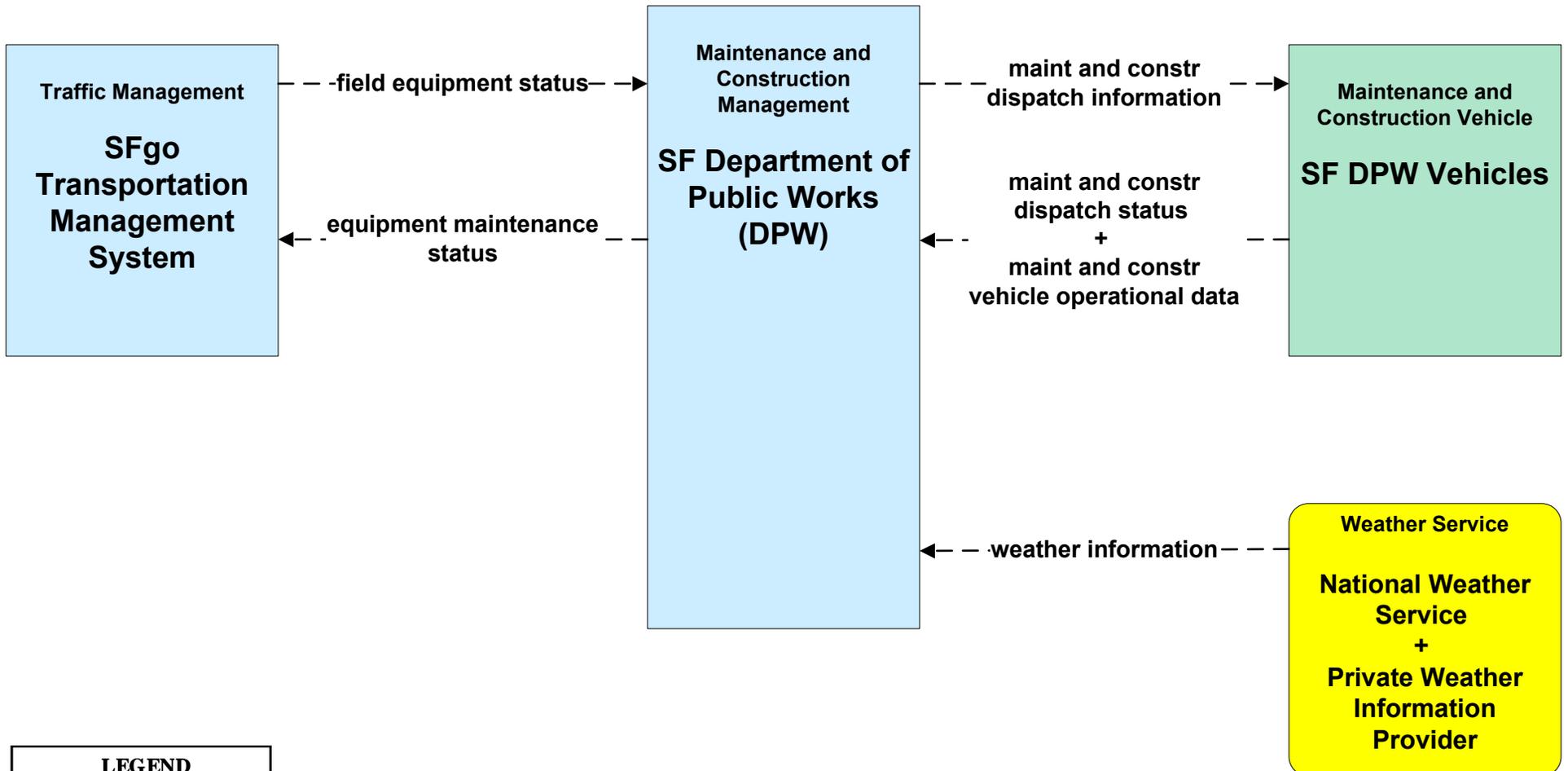
**MC04 - Weather Information Processing and Distribution
Caltrans (1 of 2)**



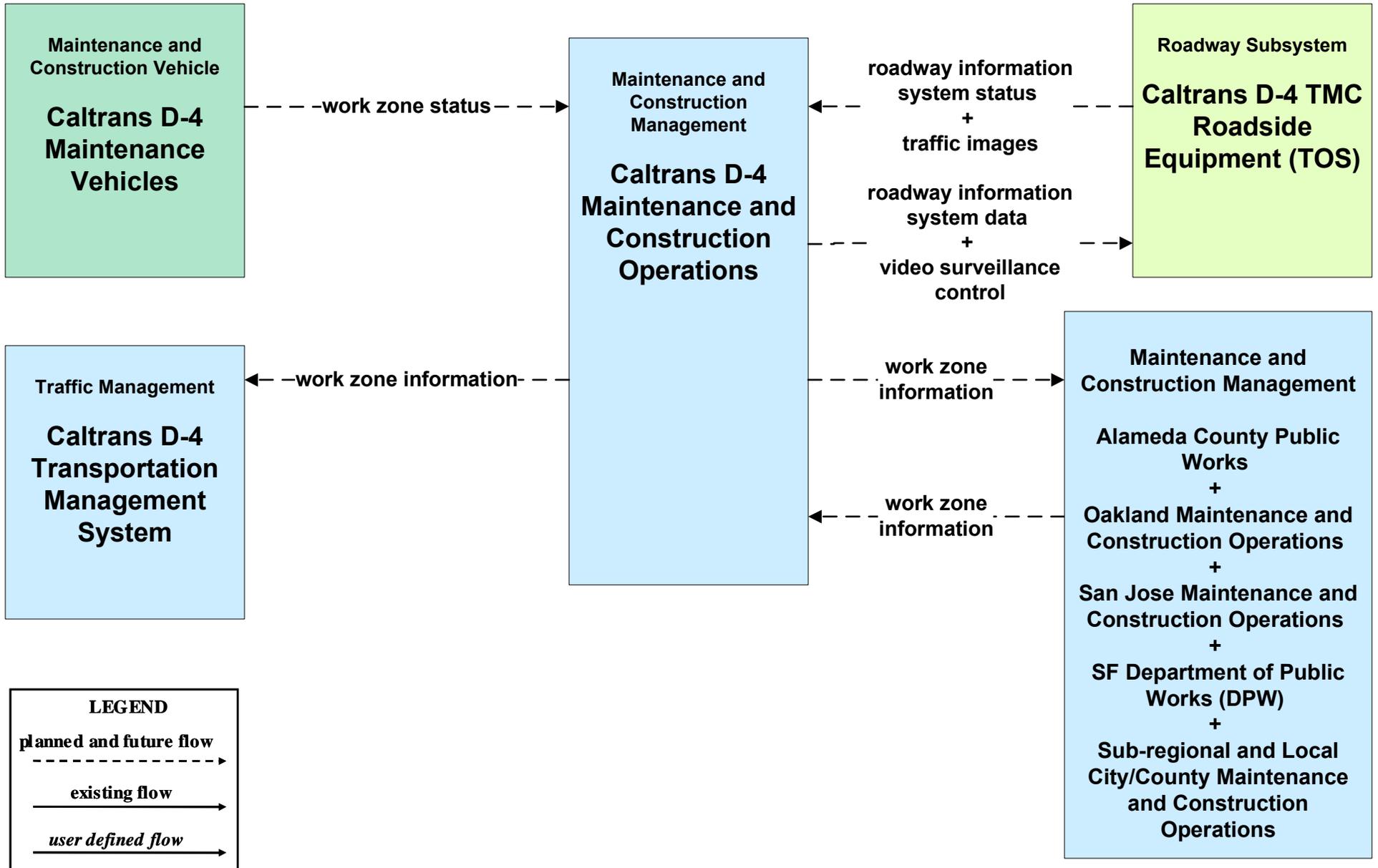
**MC04 - Weather Information Processing and Distribution
Caltrans (2 of 2)**



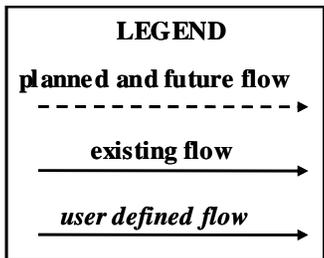
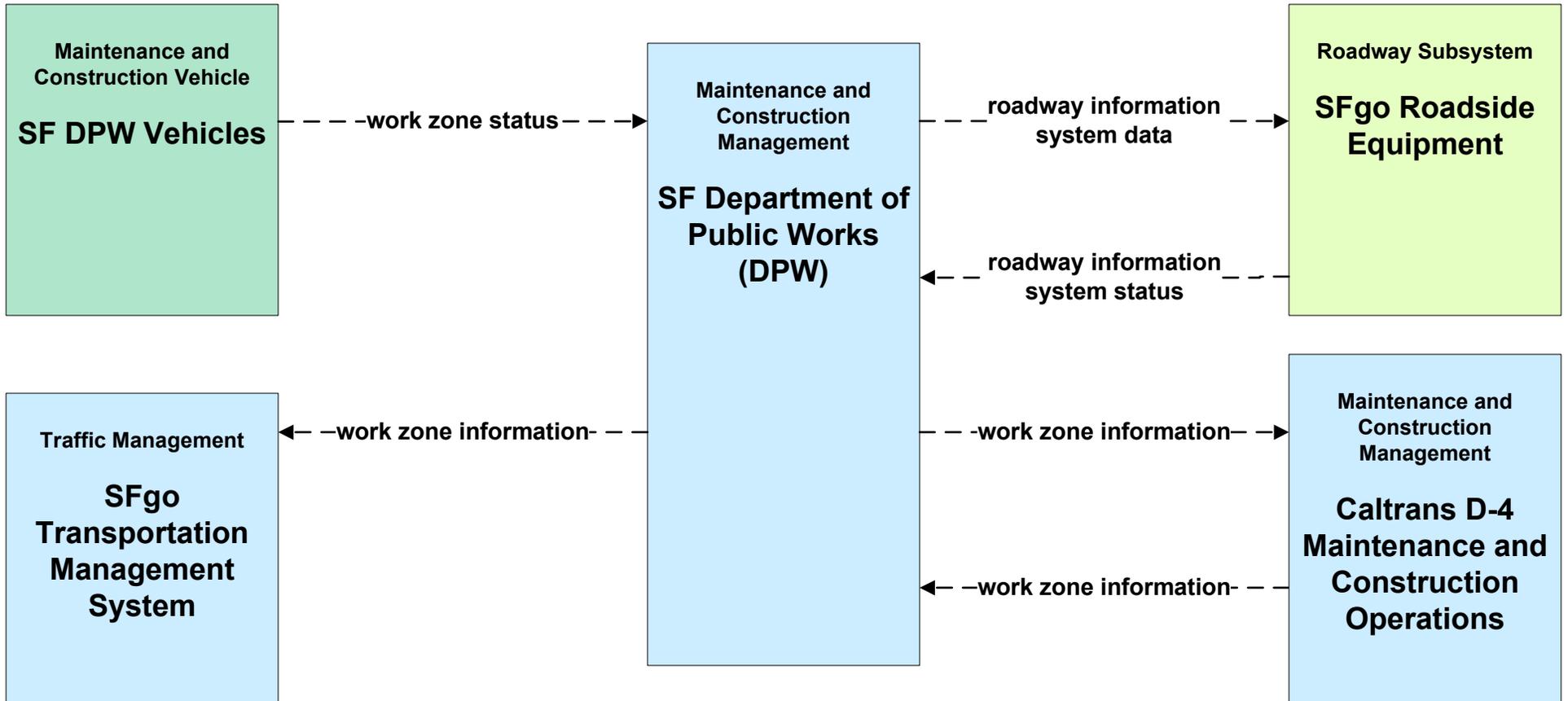
**MC07 - Roadway Maintenance and Construction
San Francisco**



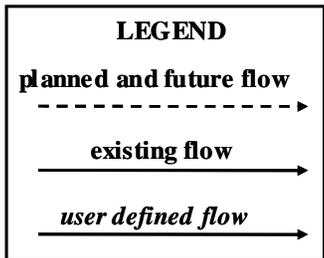
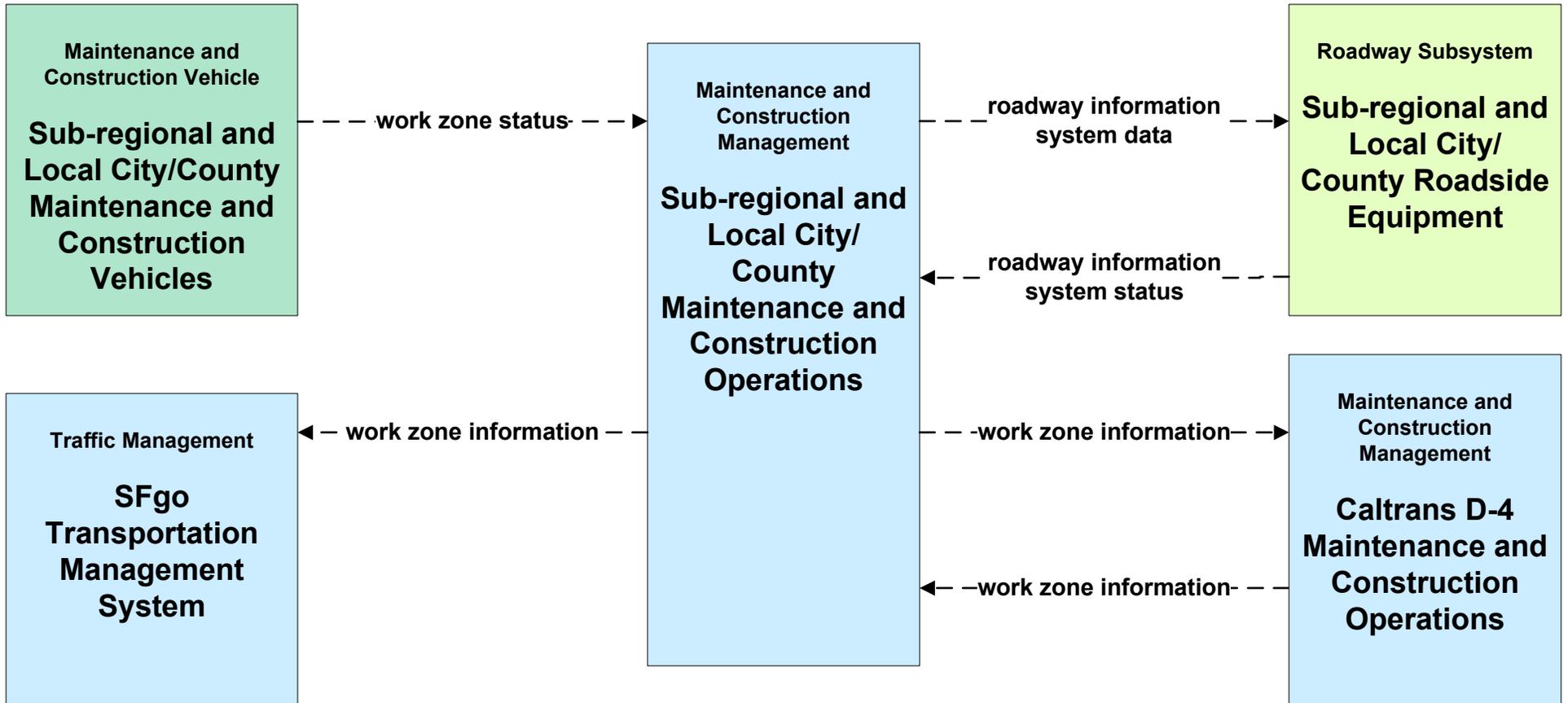
**MC08 - Work Zone Management
Caltrans**



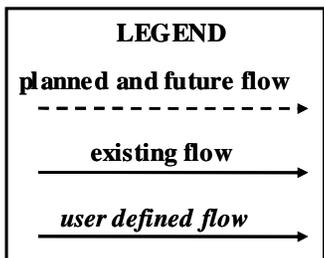
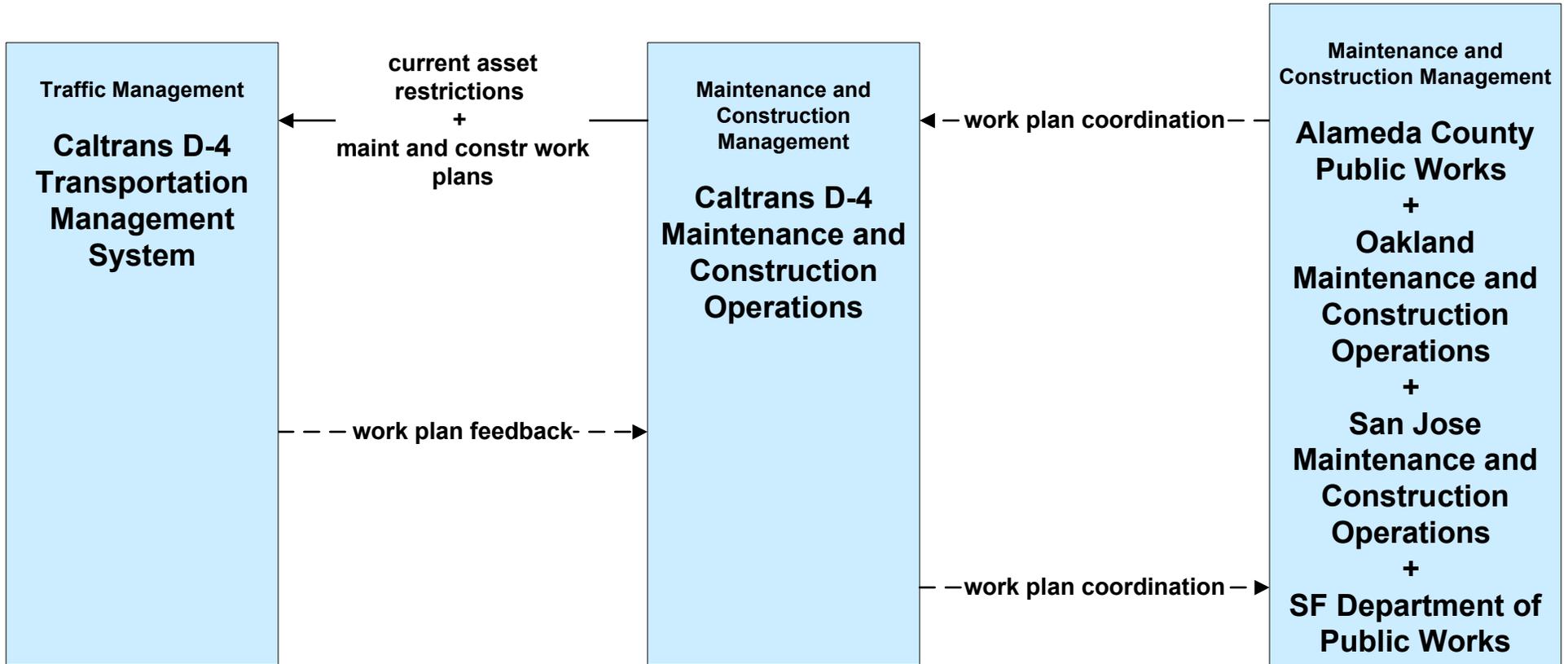
**MC08 - Work Zone Management
SF DPW**



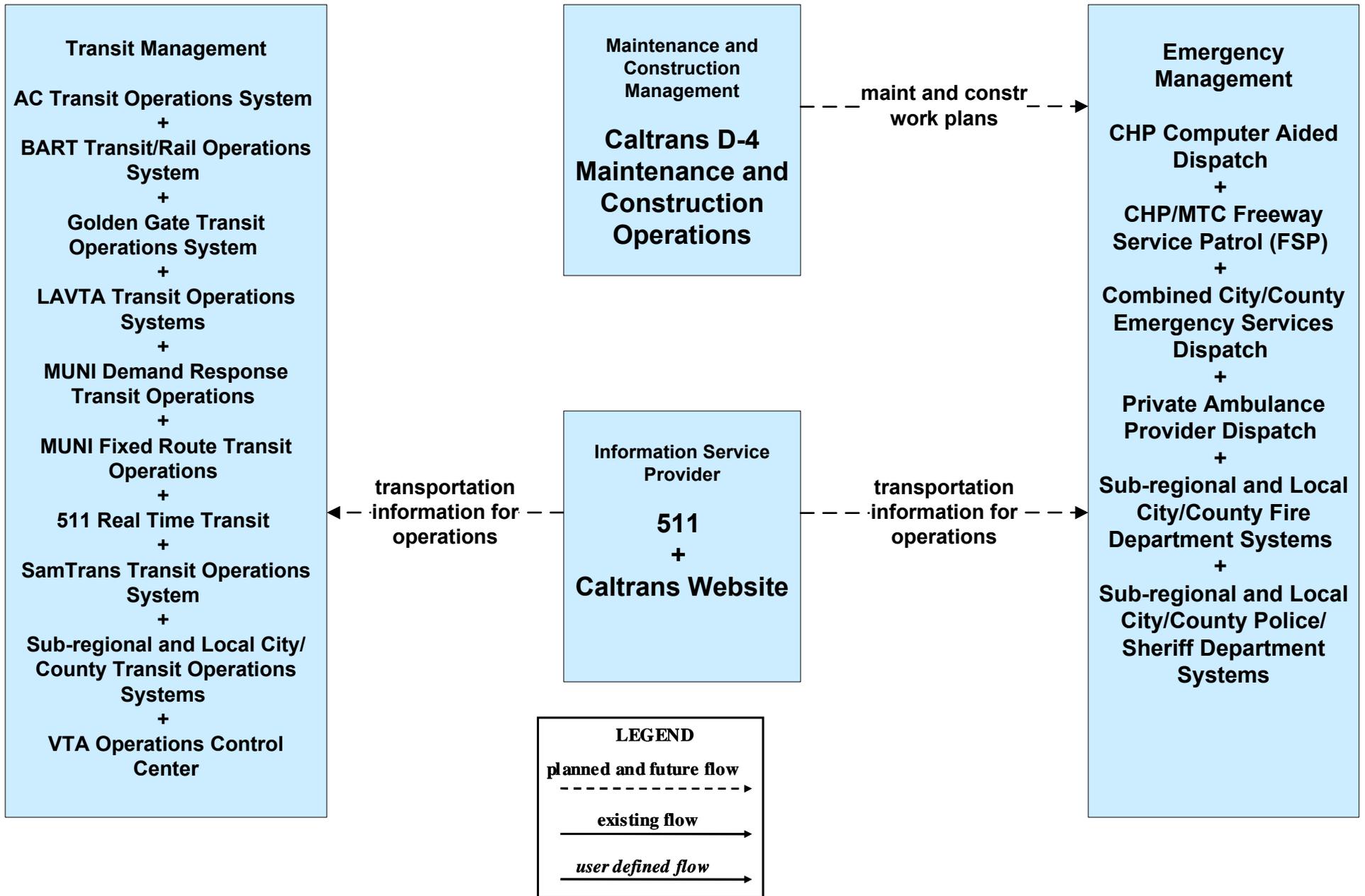
**MC08 - Work Zone Management
Local City/County**



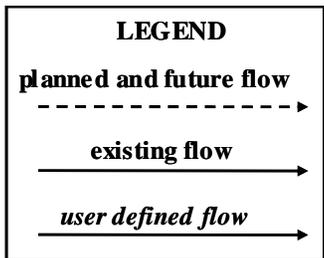
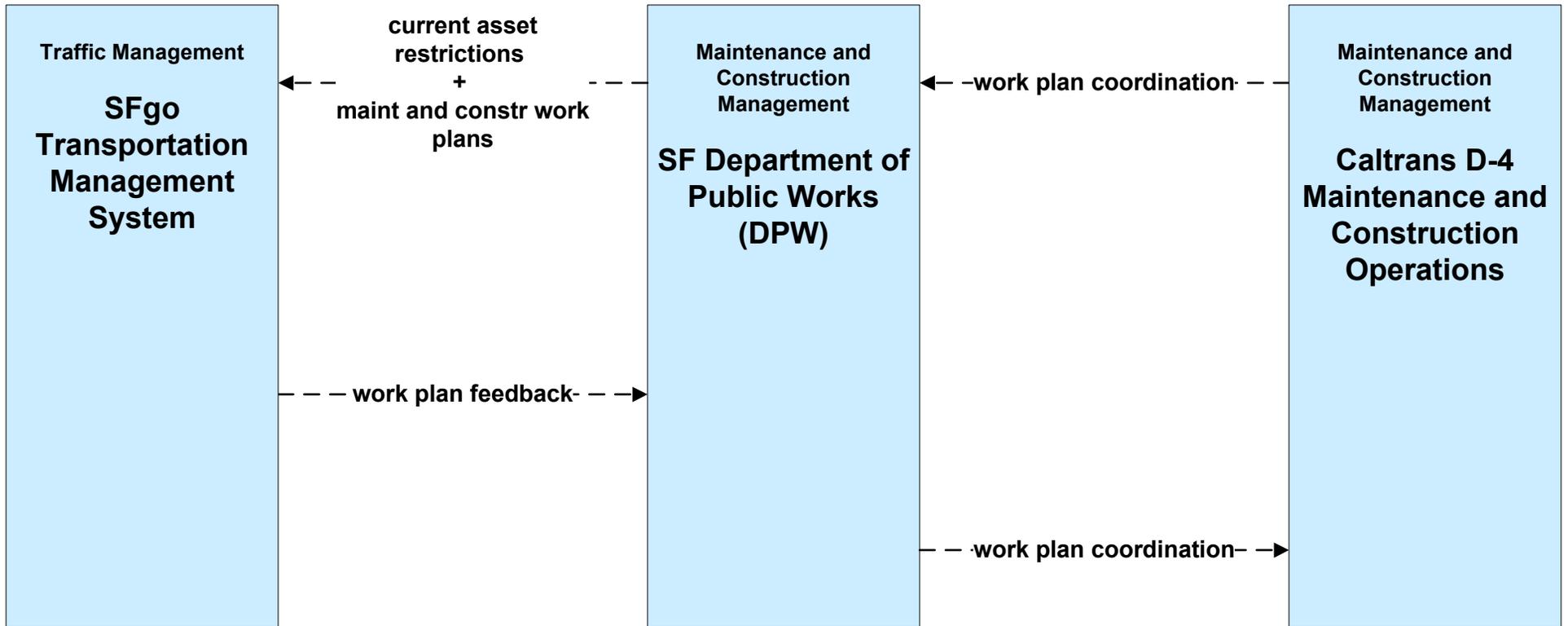
**MC10 - Maintenance and Construction Activity Coordination
Activity Coordination - Caltrans (1 of 3)**



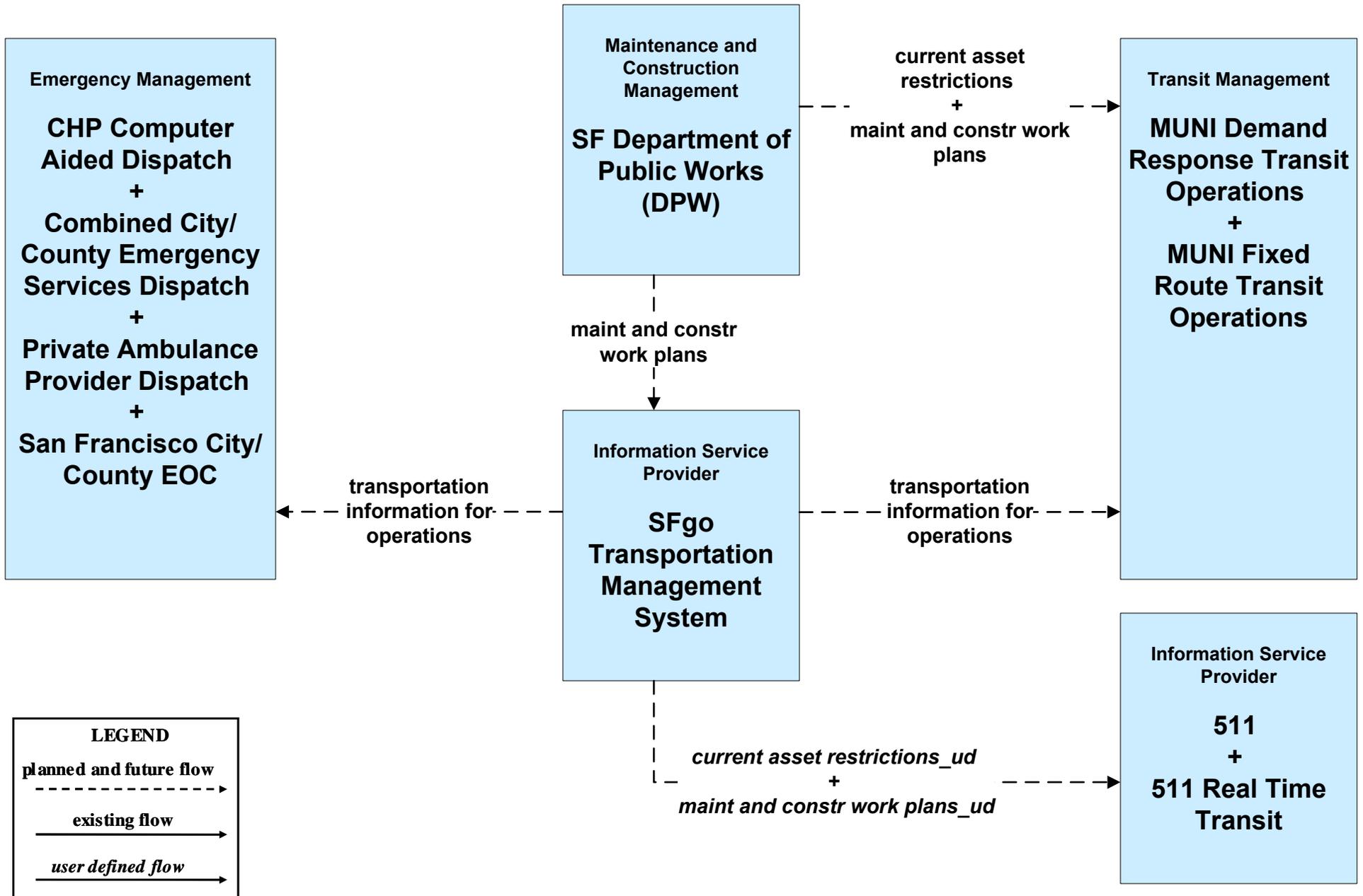
**MC10 - Maintenance and Construction Activity Coordination
Activity Coordination - MTC (3 of 3)**



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



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



MC12 - Infrastructure Monitoring City of San Francisco

