

APPENDIX A

STATEWIDE CUSTOMIZED SERVICE PACKAGE DIAGRAMS



Hawaii Statewide ITS Architecture

Customized Service Package Diagrams

based on

National ITS Architecture Version 7.1

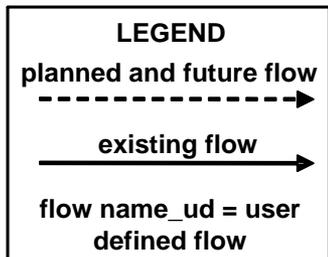
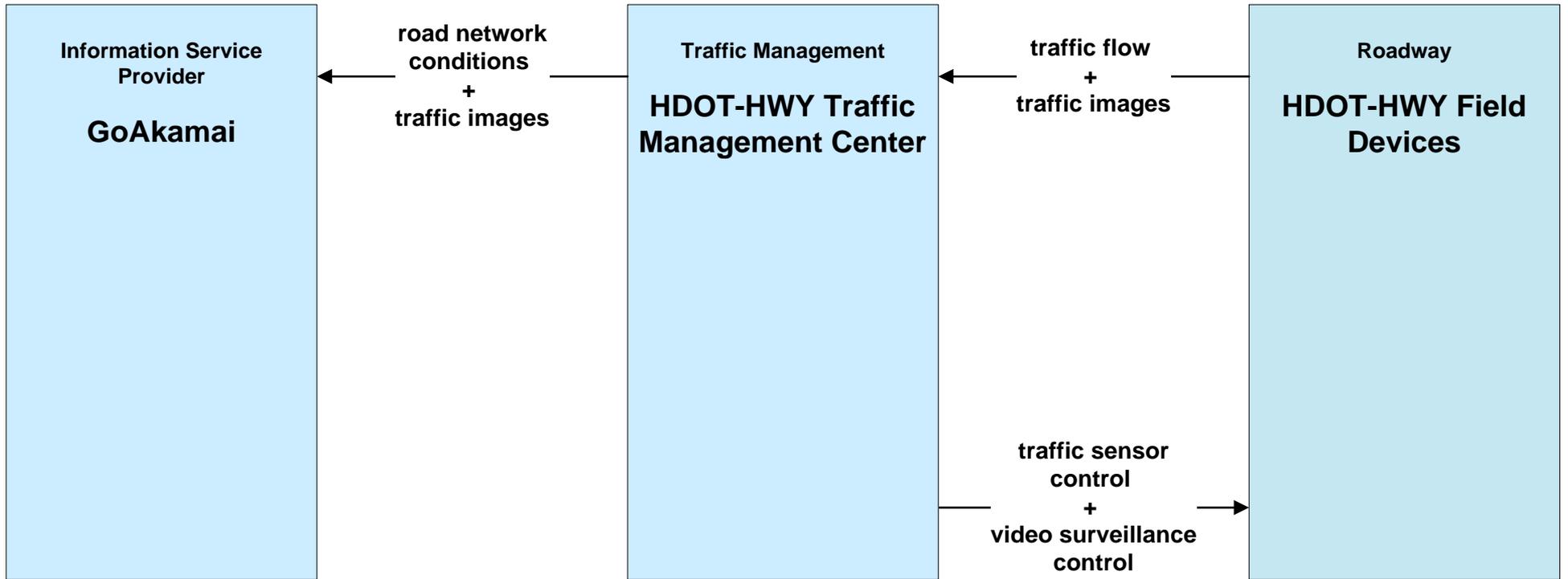
April 6th, 2017

Hawaii Statewide ITS Architecture

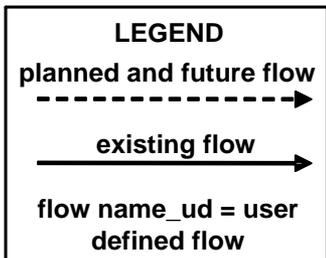
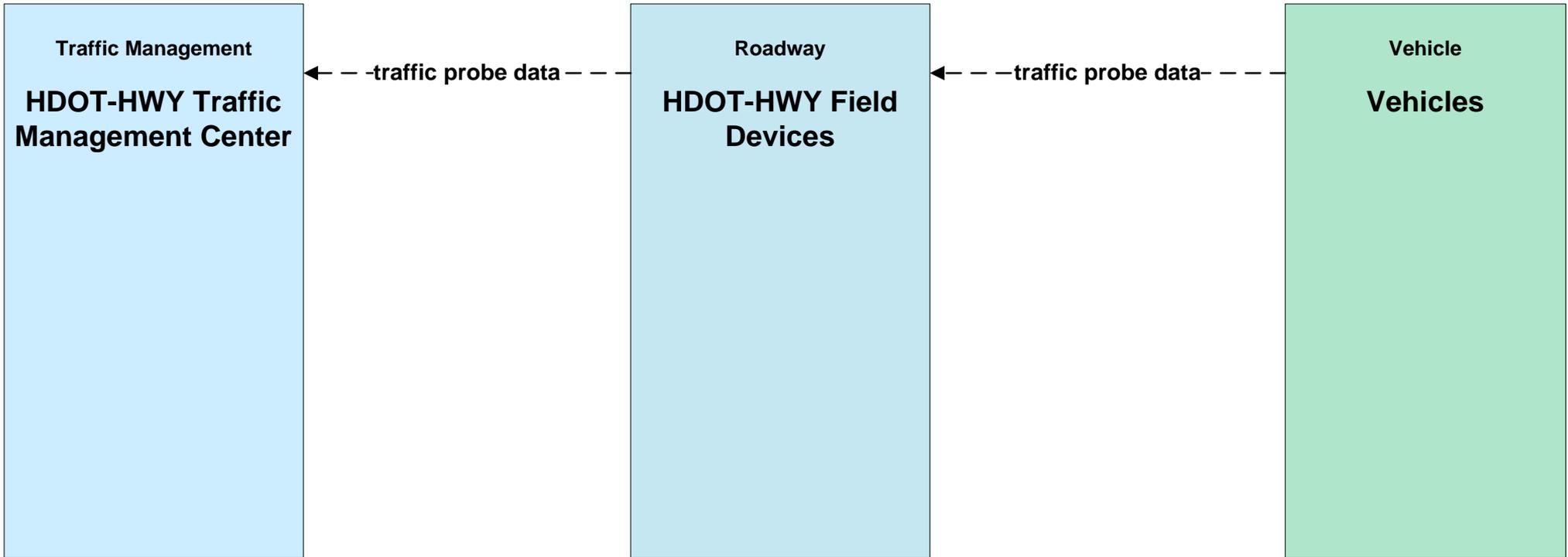
Customized Service Package Diagrams

**Advanced Traffic Management Systems
(ATMS)**

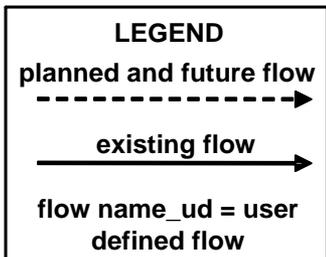
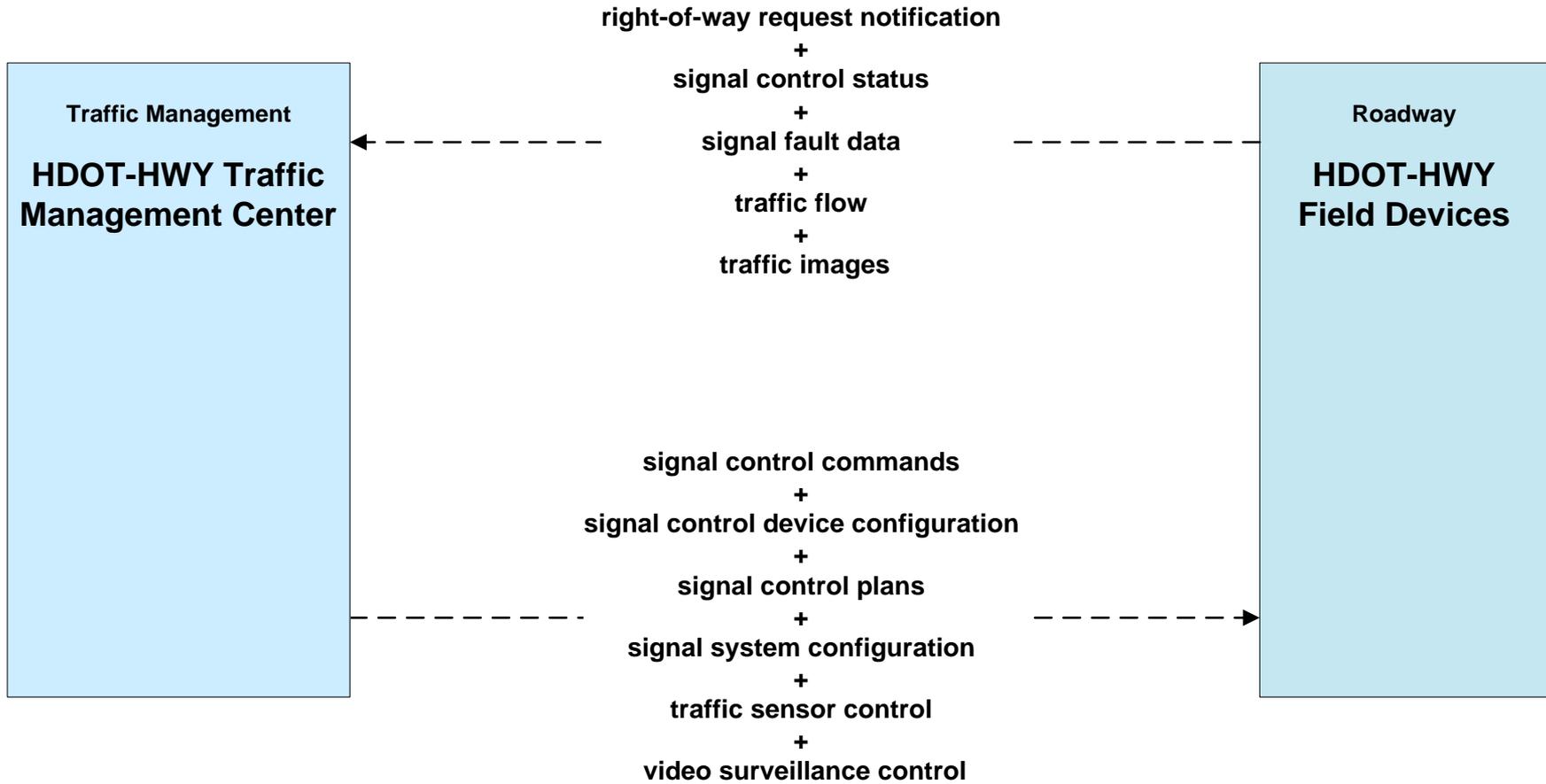
ATMS01 - Network Surveillance HDOT Highways (HDOT-HWY)



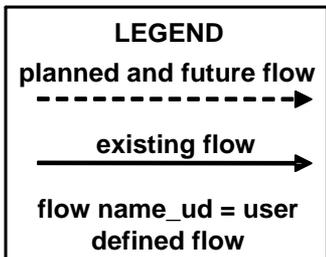
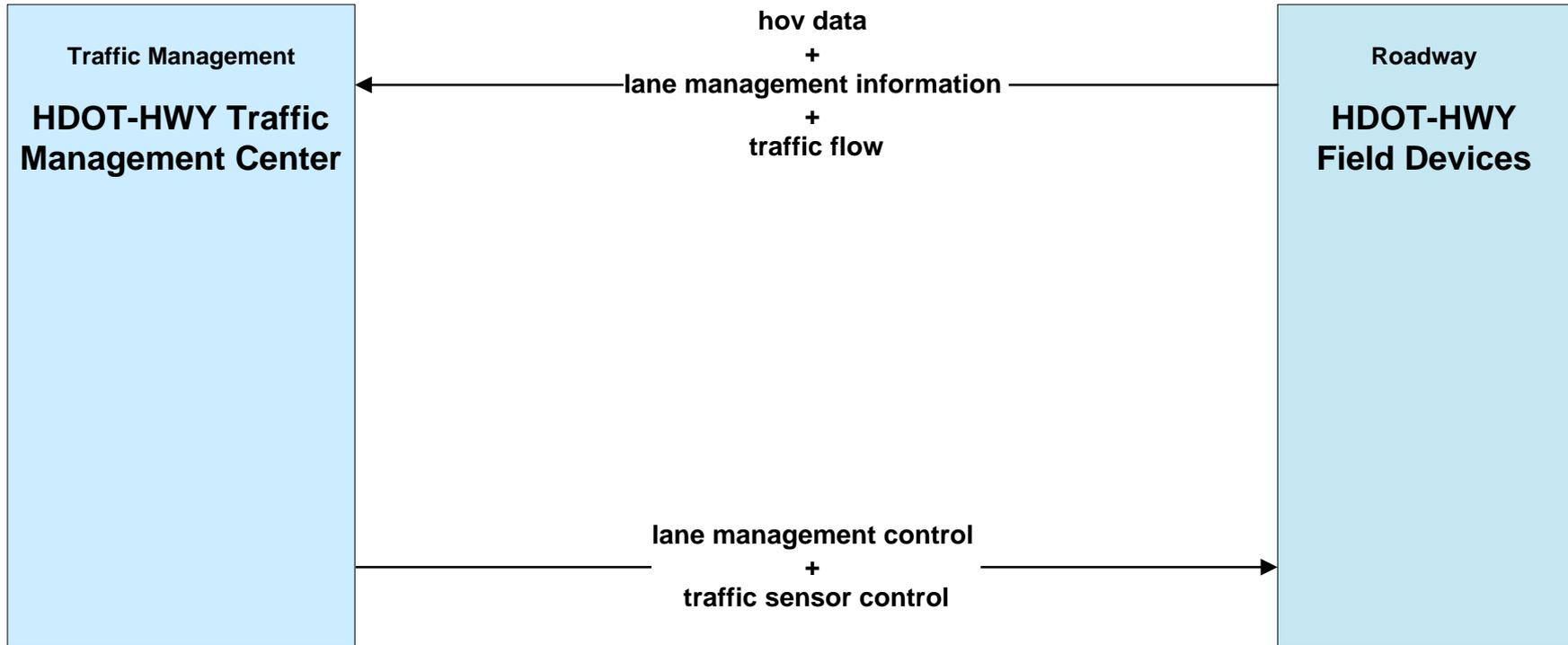
**ATMS02 - Traffic Probe Surveillance
HDOT Highways (HDOT-HWY)**



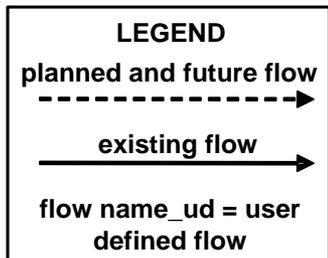
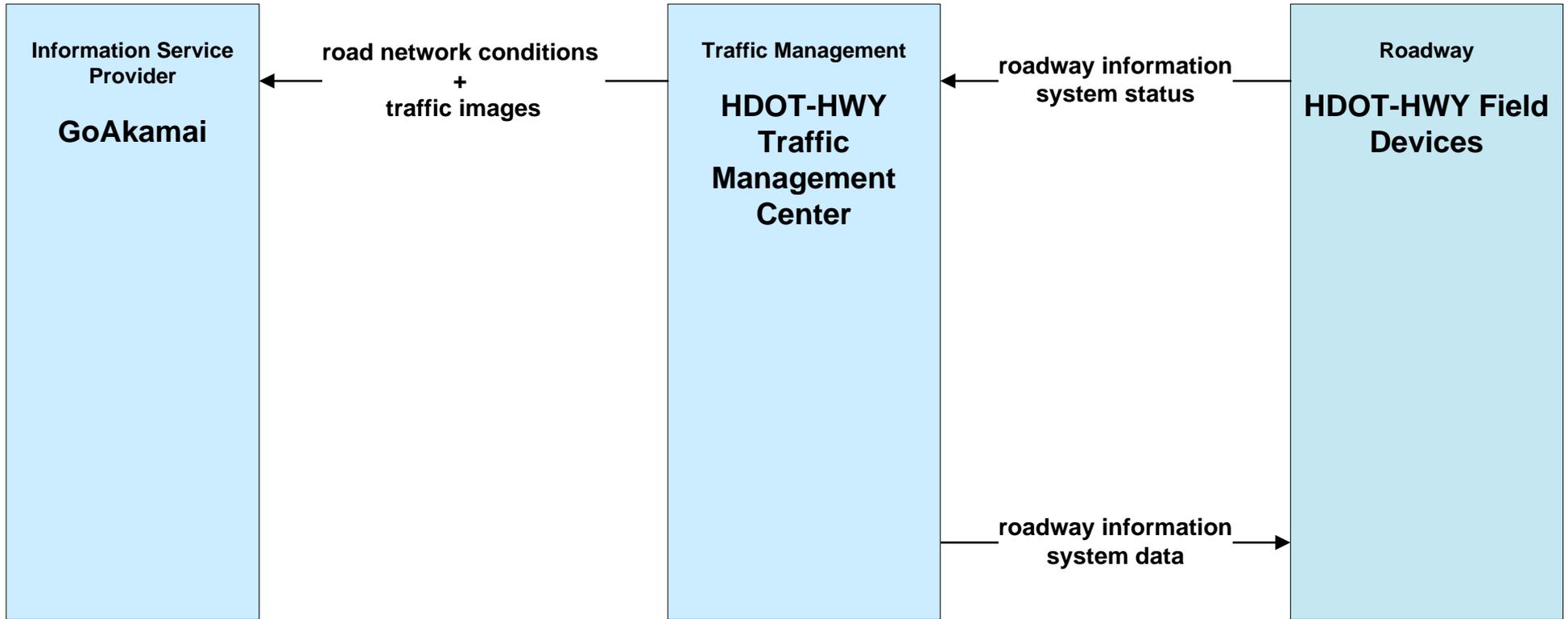
ATMS03 - Traffic Signal Control HDOT Highways (HDOT-HWY)



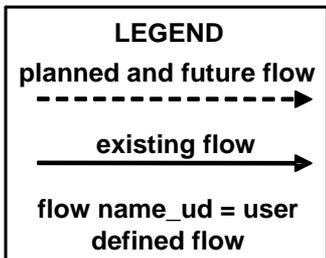
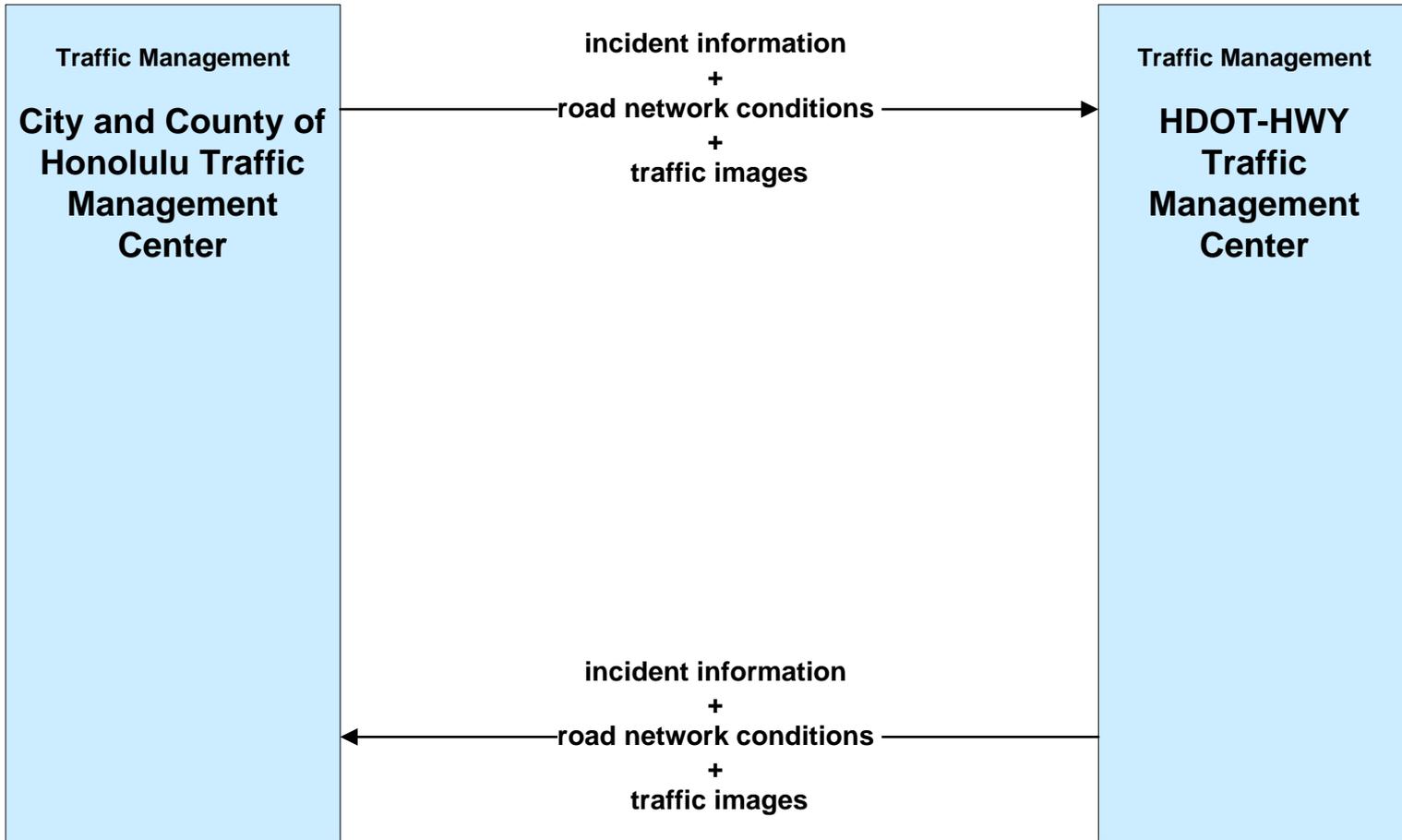
**ATMS05 - HOV Lane Management
HDOT Highways (HDOT-HWY)**



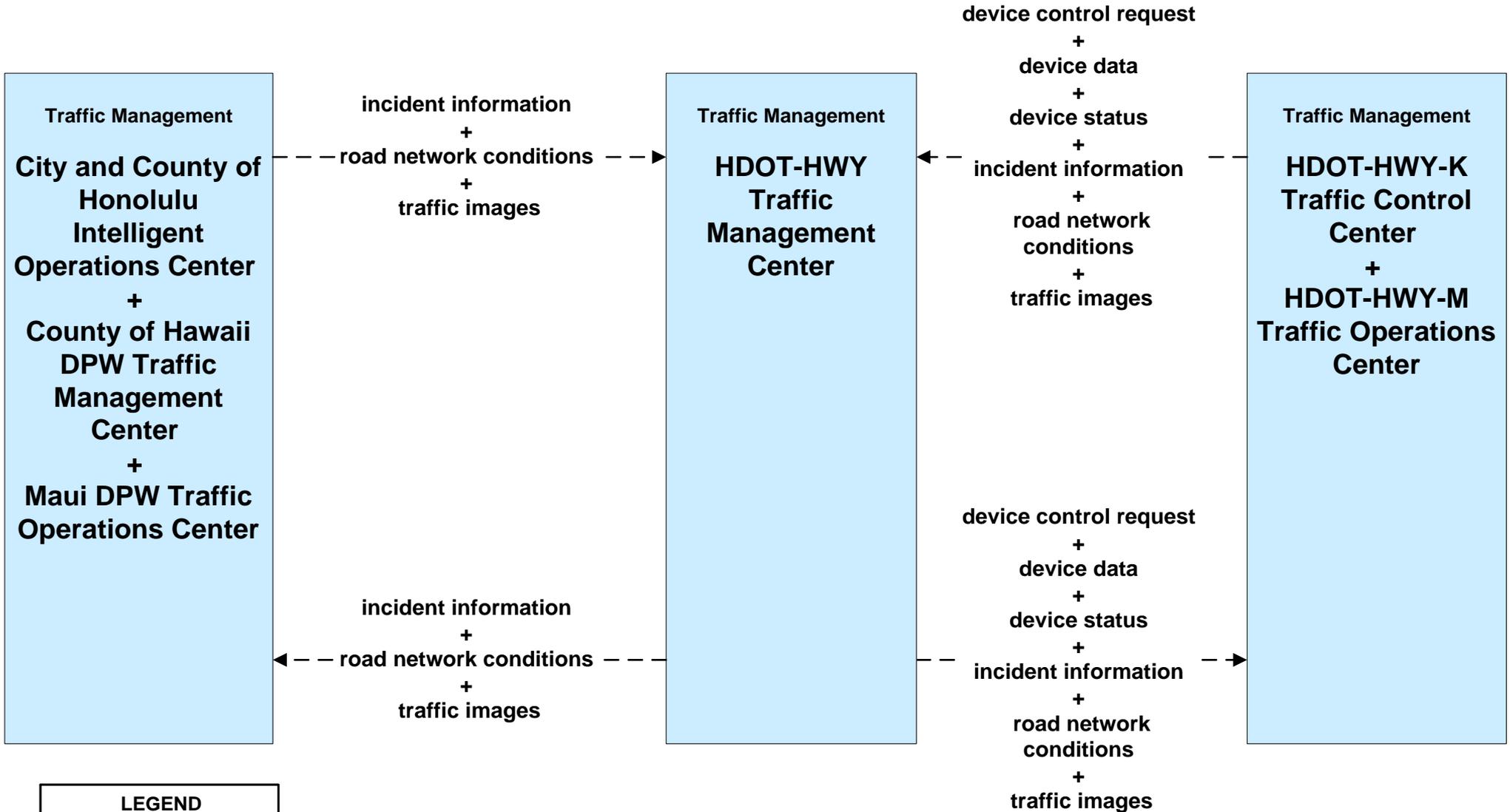
**ATMS06 - Traffic Information Dissemination
HDOT Highways (HDOT-HWY)**



**ATMS07 - Regional Traffic Management
HDOT Highways (HDOT-HWY) (1 of 2)**



**ATMS07 - Regional Traffic Management
HDOT Highways (HDOT-HWY) (2 of 2)**



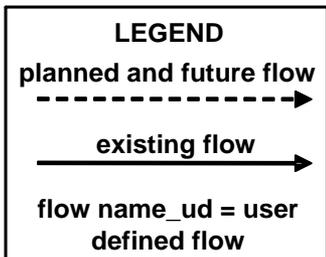
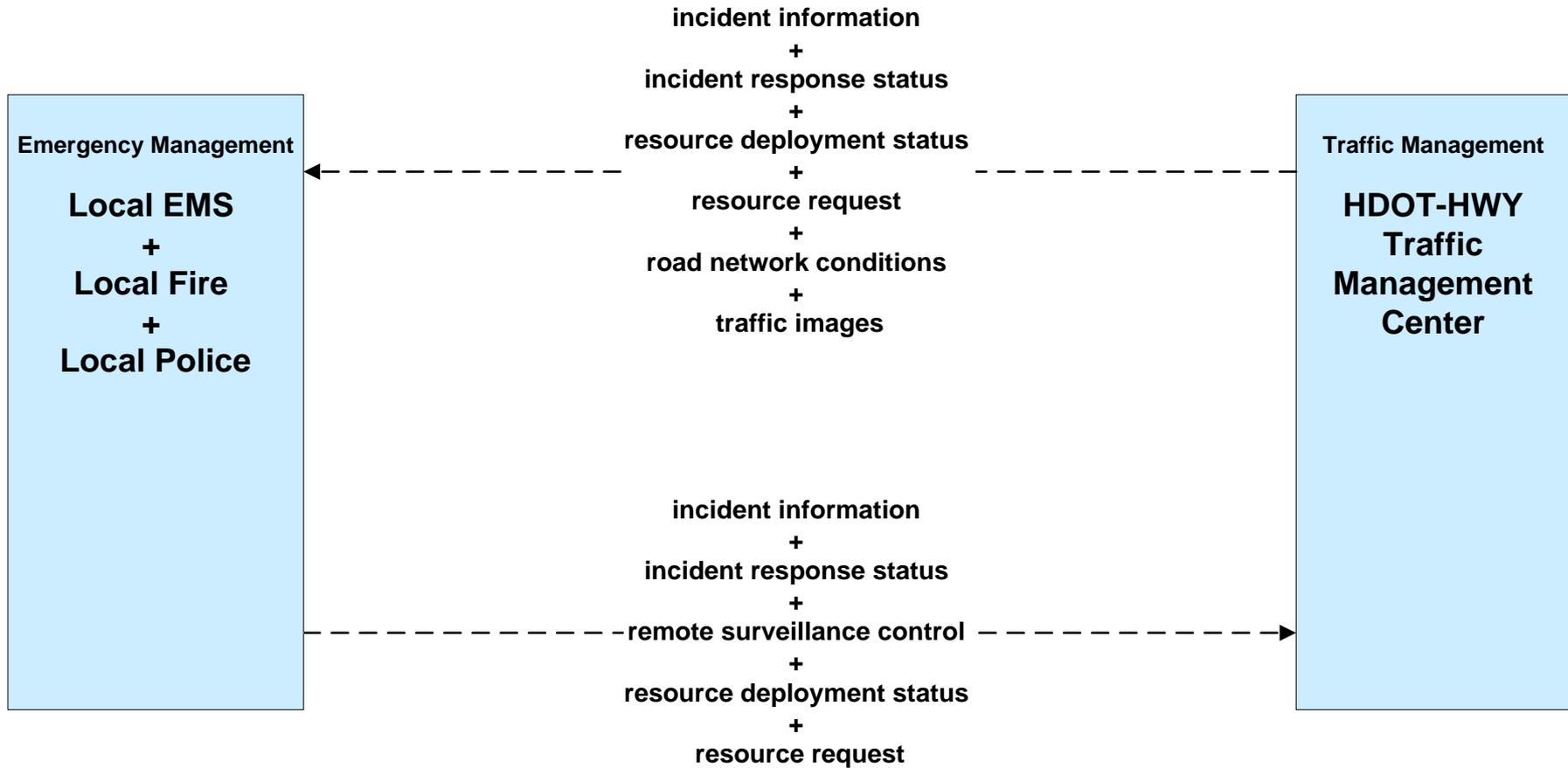
LEGEND

planned and future flow
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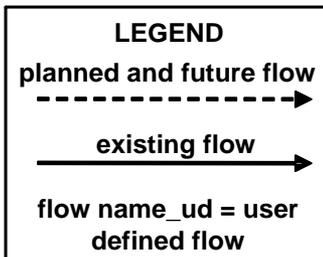
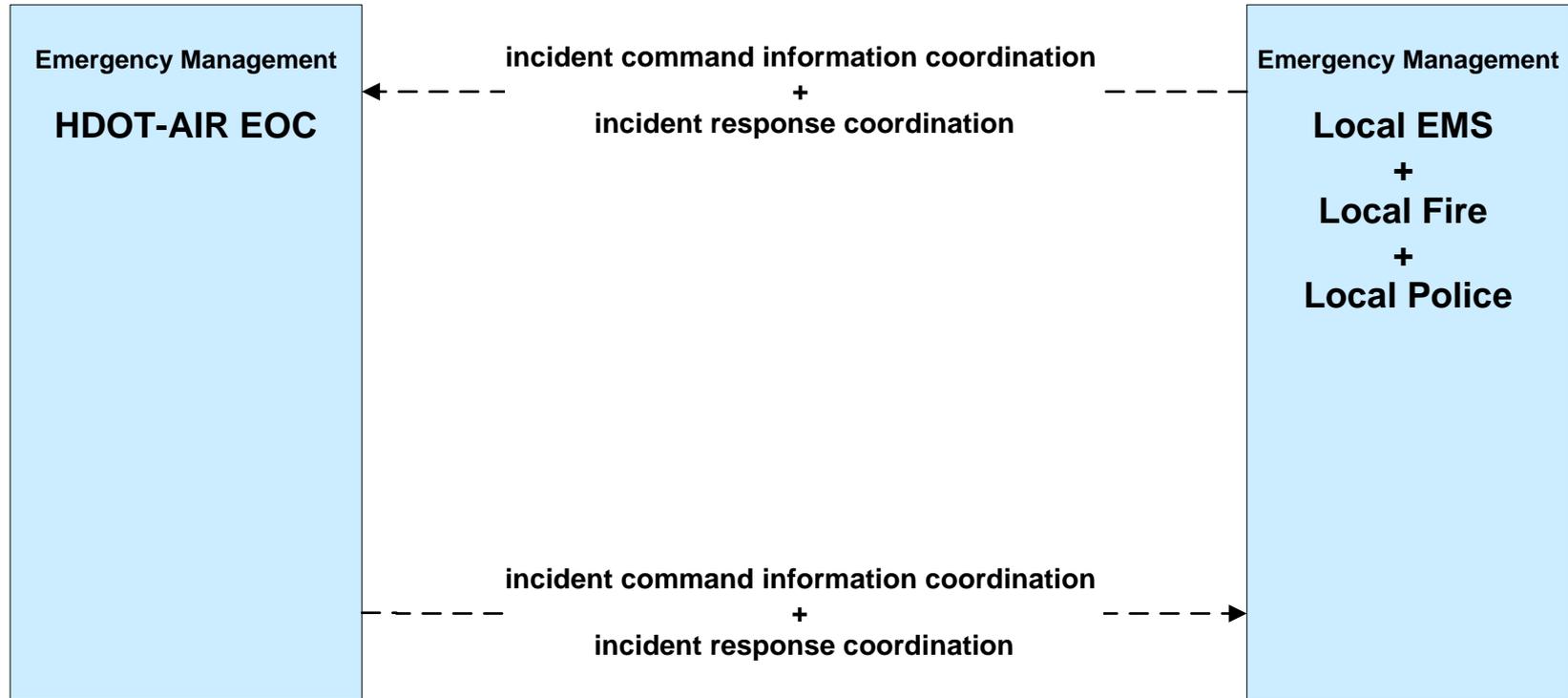
existing flow
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flow name_ud = user defined flow

ATMS08 - Incident Management HDOT Highways (HDOT-HWY)



**ATMS08 - Incident Management
HDOT Airports (HDOT AIR)**

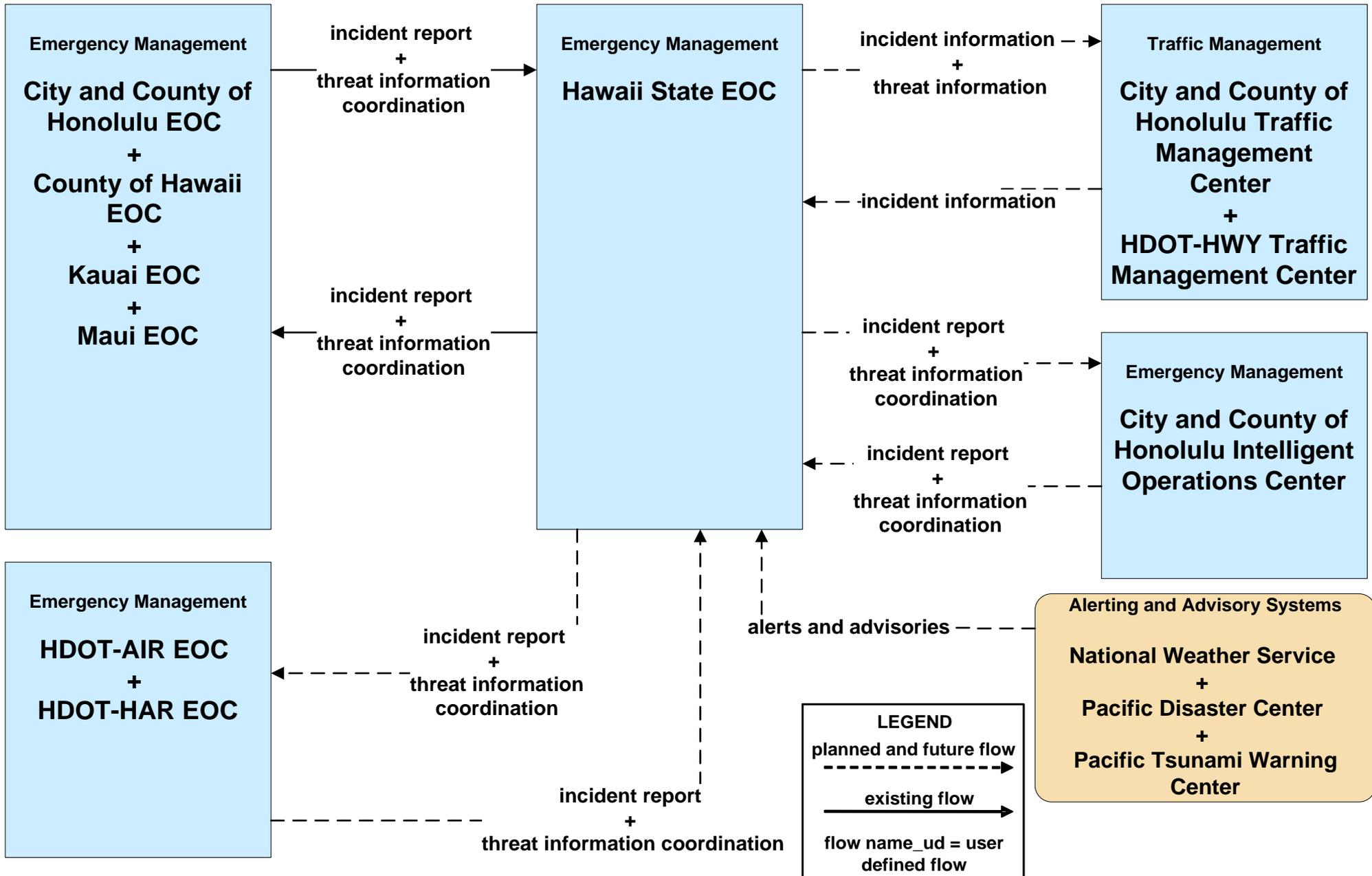


Hawaii Statewide ITS Architecture

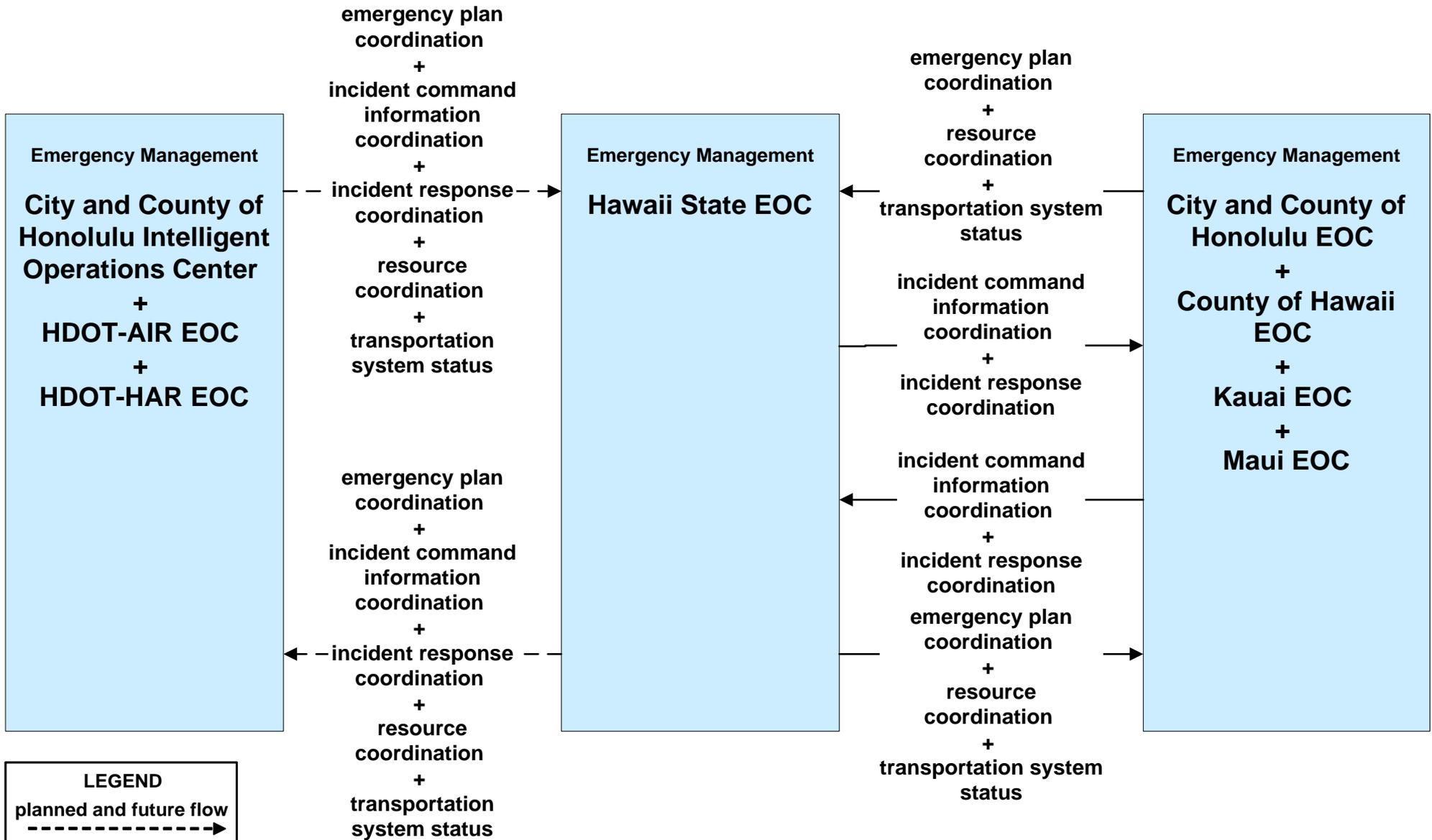
Customized Service Package Diagrams

Emergency Management (EM)

**EM07 - Early Warning System
Hawaii Emergency Management Agency (HIEMA) EOC**



**EM08 - Disaster Response and Recovery
Hawaii Emergency Management Agency (HIEMA) EOC (1 of 2)**



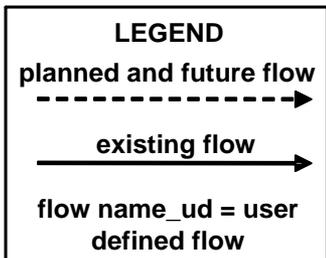
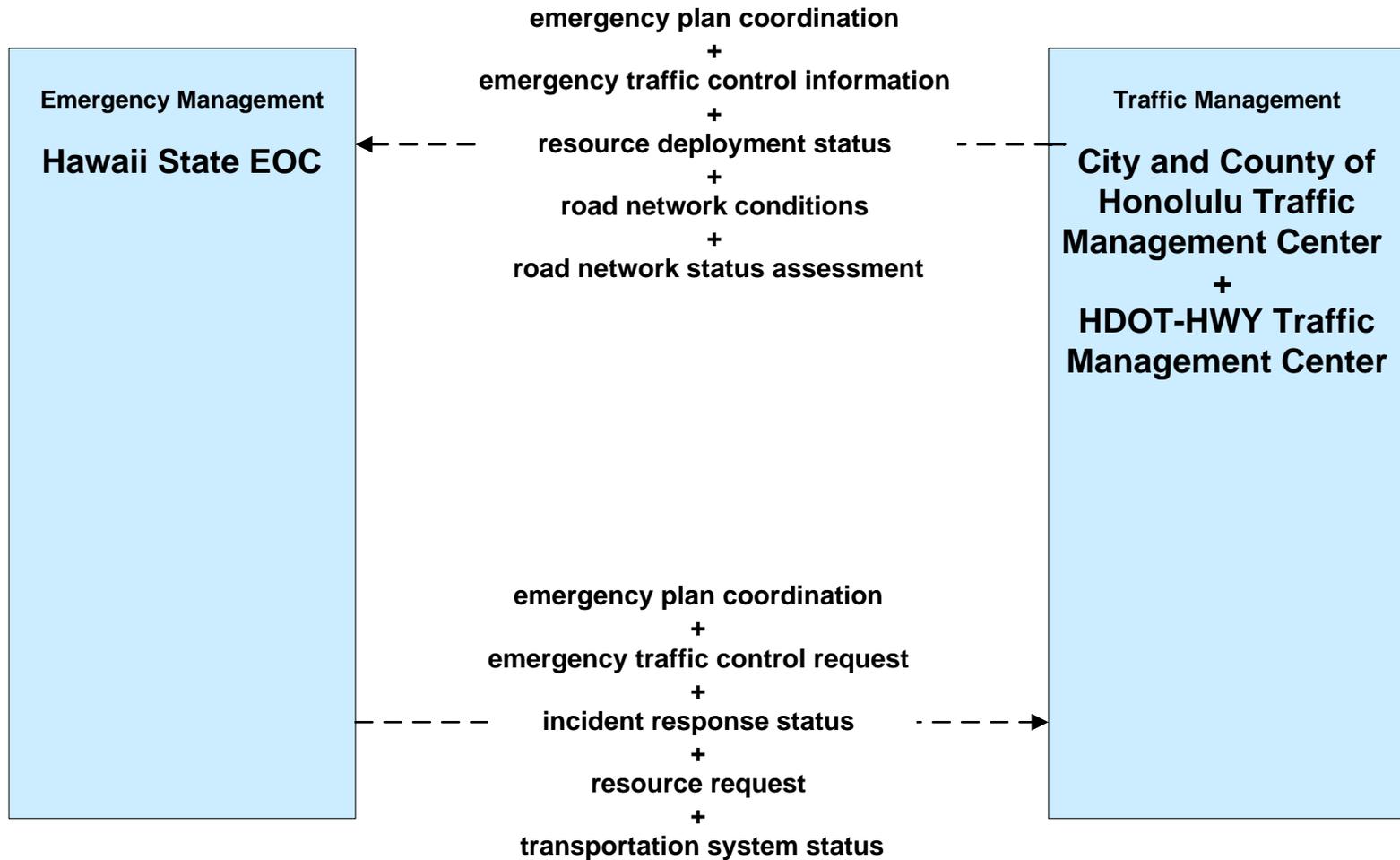
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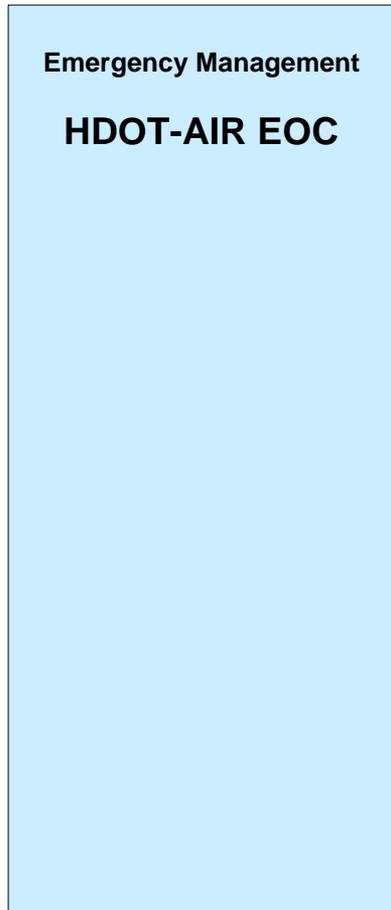
existing flow
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flow name_ud = user defined flow

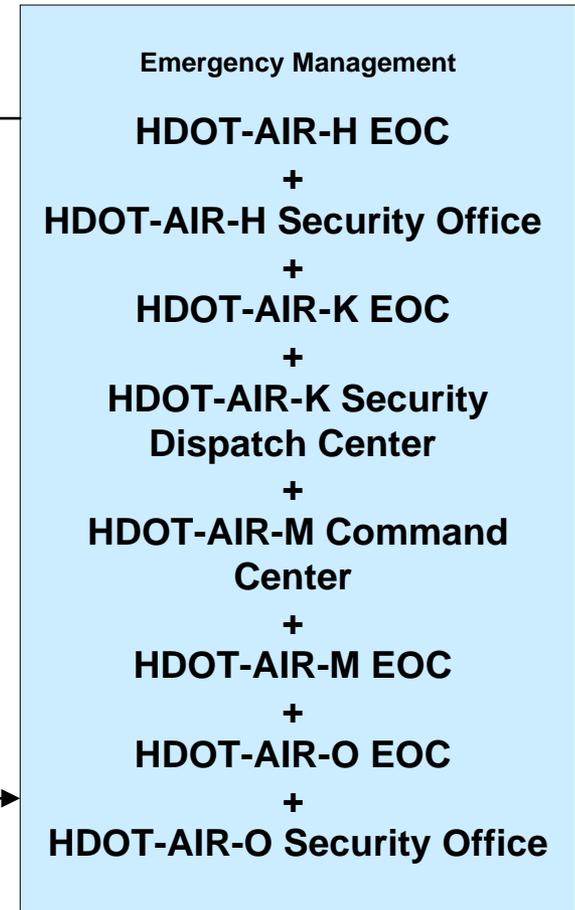
**EM08 - Disaster Response and Recovery
Hawaii Emergency Management Agency (HIEMA) EOC (2 of 2)**



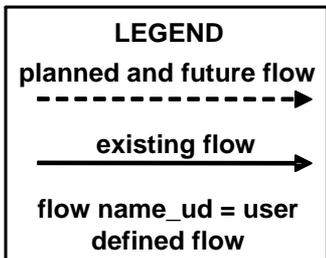
**EM08 - Disaster Response and Recovery
 HDOT Airports (HDOT-AIR) EOC**



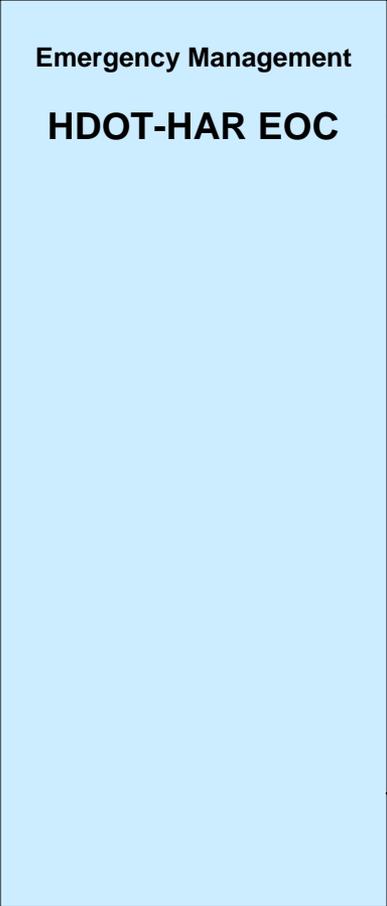
emergency plan coordination
 +
 incident command information coordination
 +
 incident response coordination
 +
 resource coordination
 +
 transportation system status



emergency plan coordination
 +
 incident command information coordination
 +
 incident response coordination
 +
 resource coordination
 +
 transportation system status



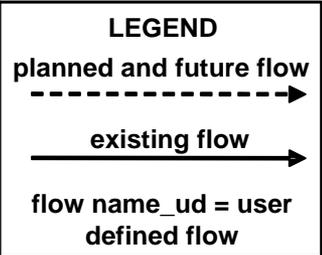
**EM08 - Disaster Response and Recovery
 HDOT Harbors (HDOT-HAR) EOC**



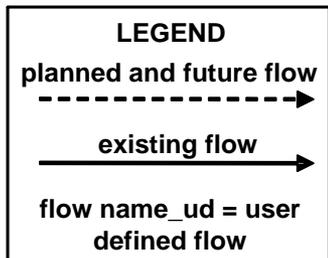
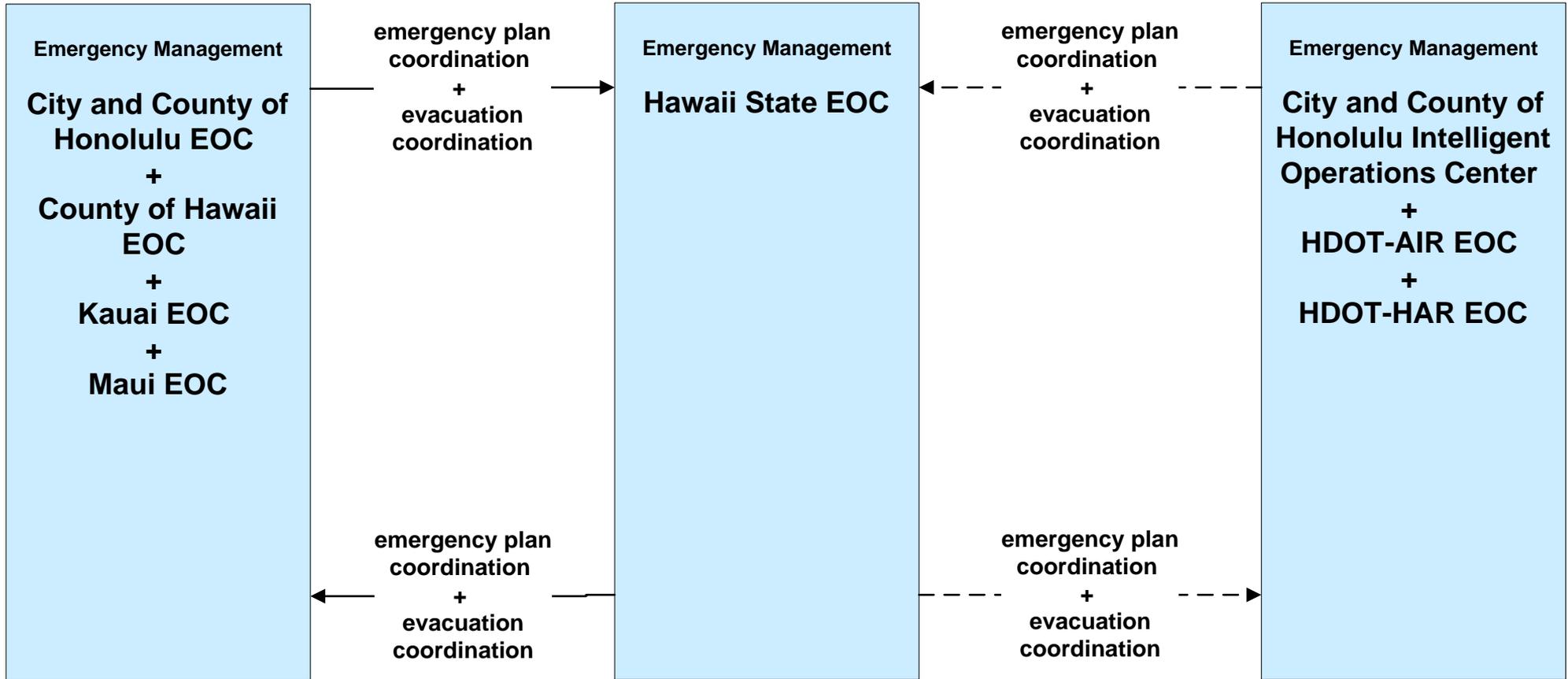
emergency plan coordination
 +
 incident command information coordination
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 incident response coordination
 +
 resource coordination
 +
 transportation system status



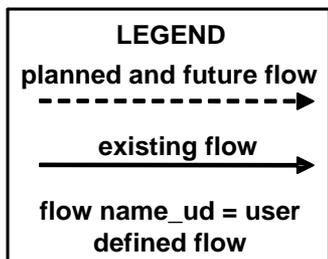
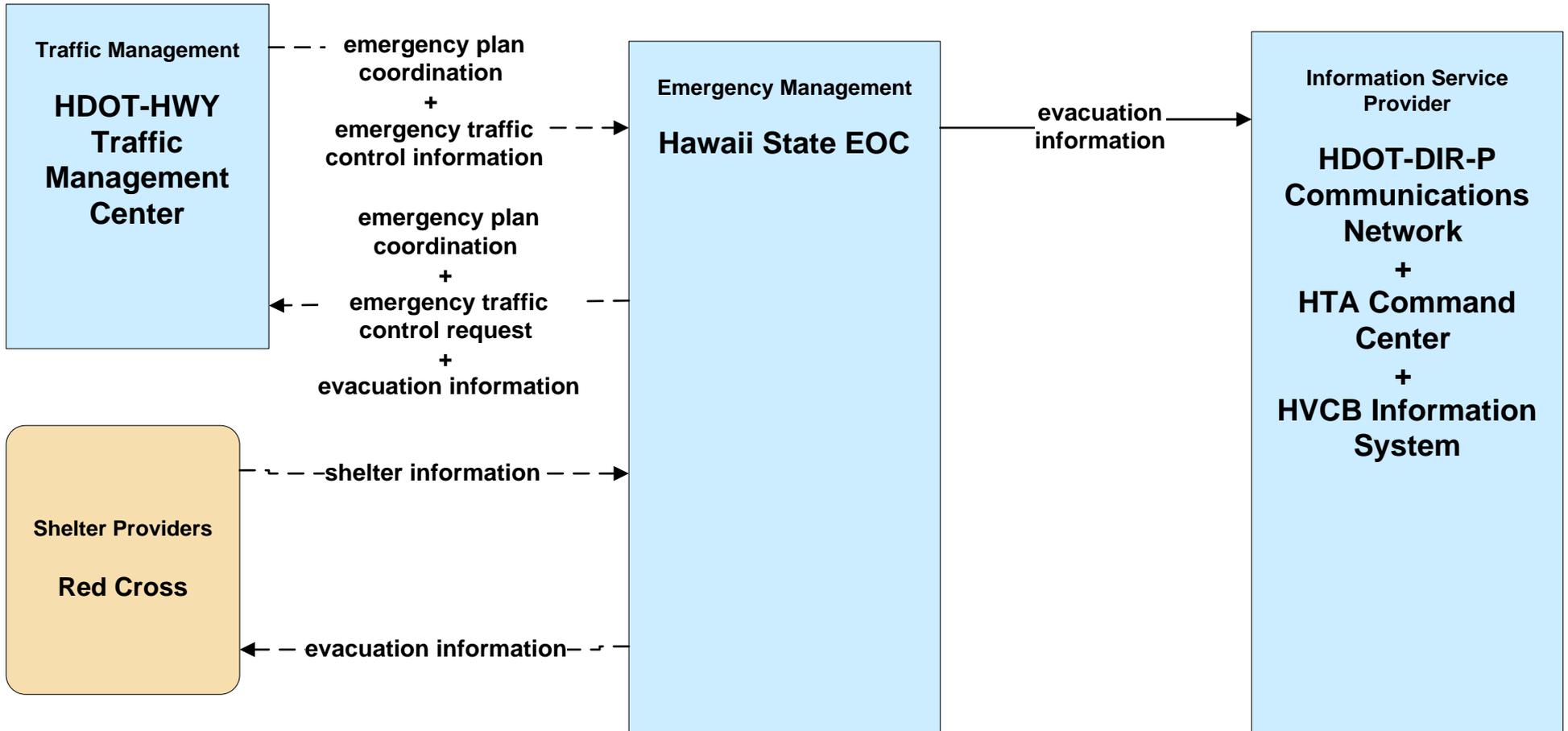
emergency plan coordination
 +
 incident command information coordination
 +
 incident response coordination
 +
 resource coordination
 +
 transportation system status



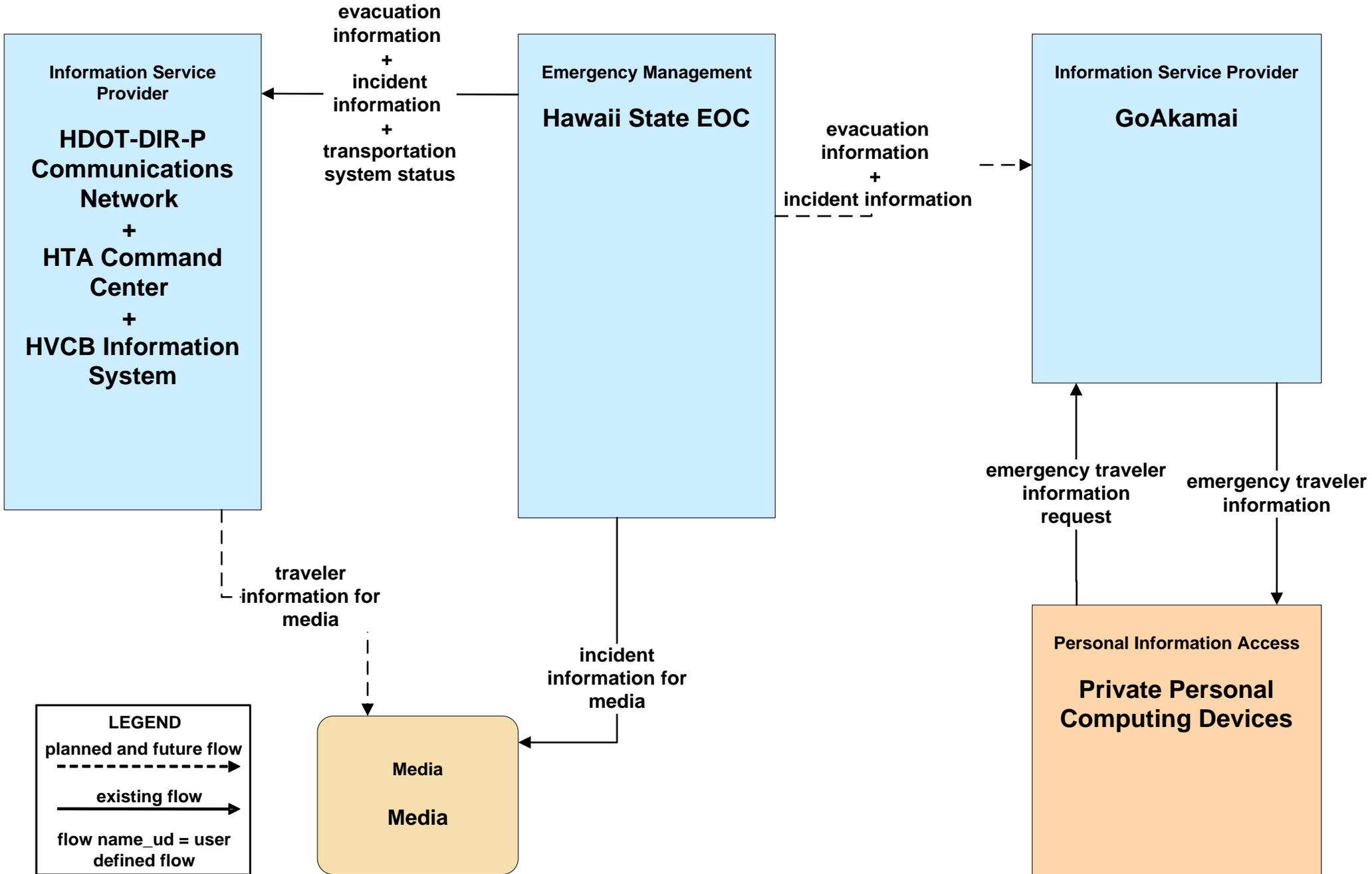
**EM09 - Evacuation and Reentry Management
Hawaii Emergency Management Agency (HIEMA) EOC (1 of 2)**



**EM09 - Evacuation and Reentry Management
Hawaii Emergency Management Agency (HIEMA) (2 of 2)**

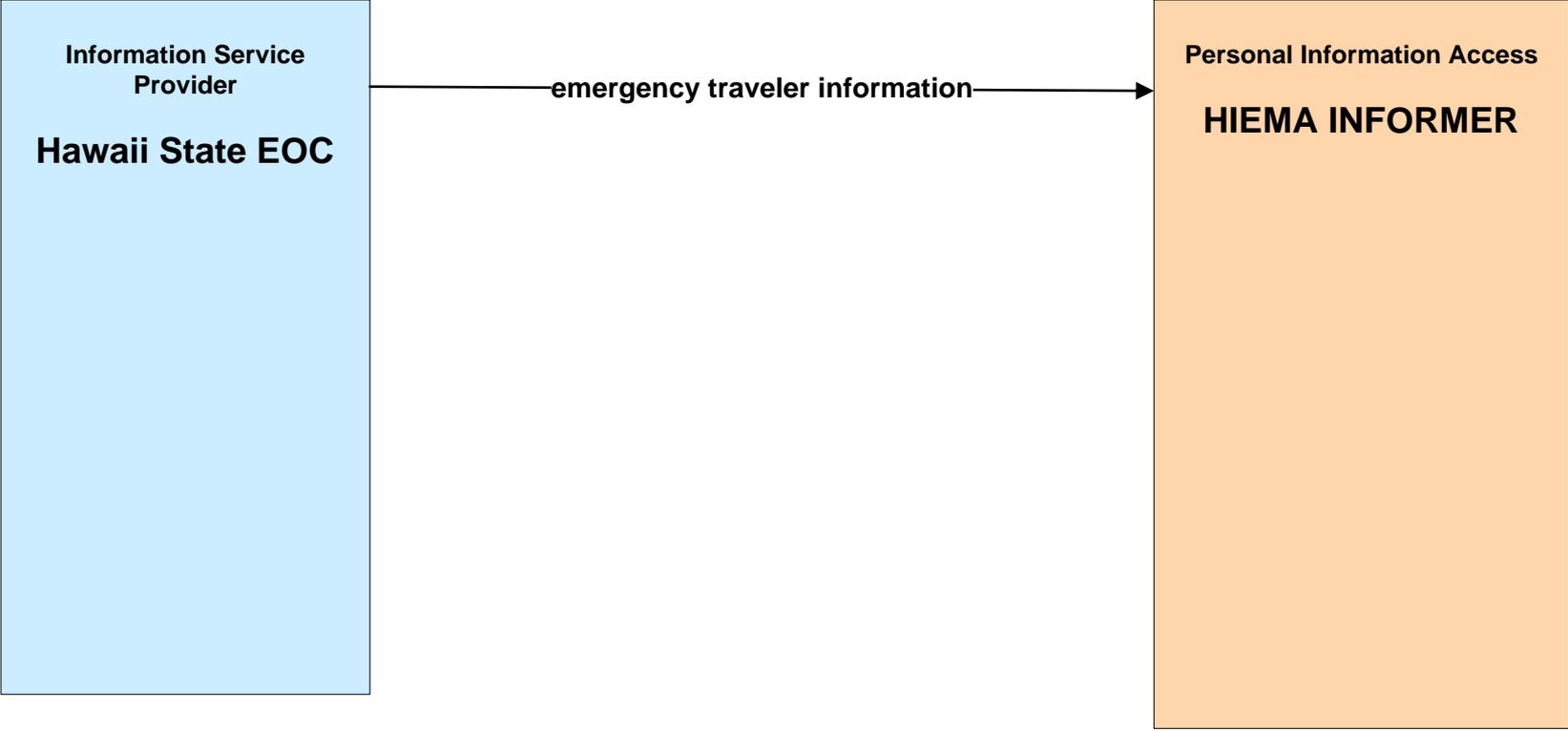


**EM10 - Disaster Traveler Information
Hawaii Emergency Management Agency (HIEMA) EOC**



LEGEND
 planned and future flow
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 existing flow
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 flow name_ud = user defined flow

**EM10 - Disaster Traveler Information
Hawaii Emergency Management Agency (HIEMA) INFORMER**



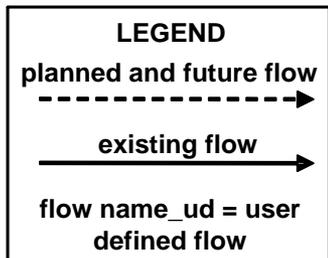
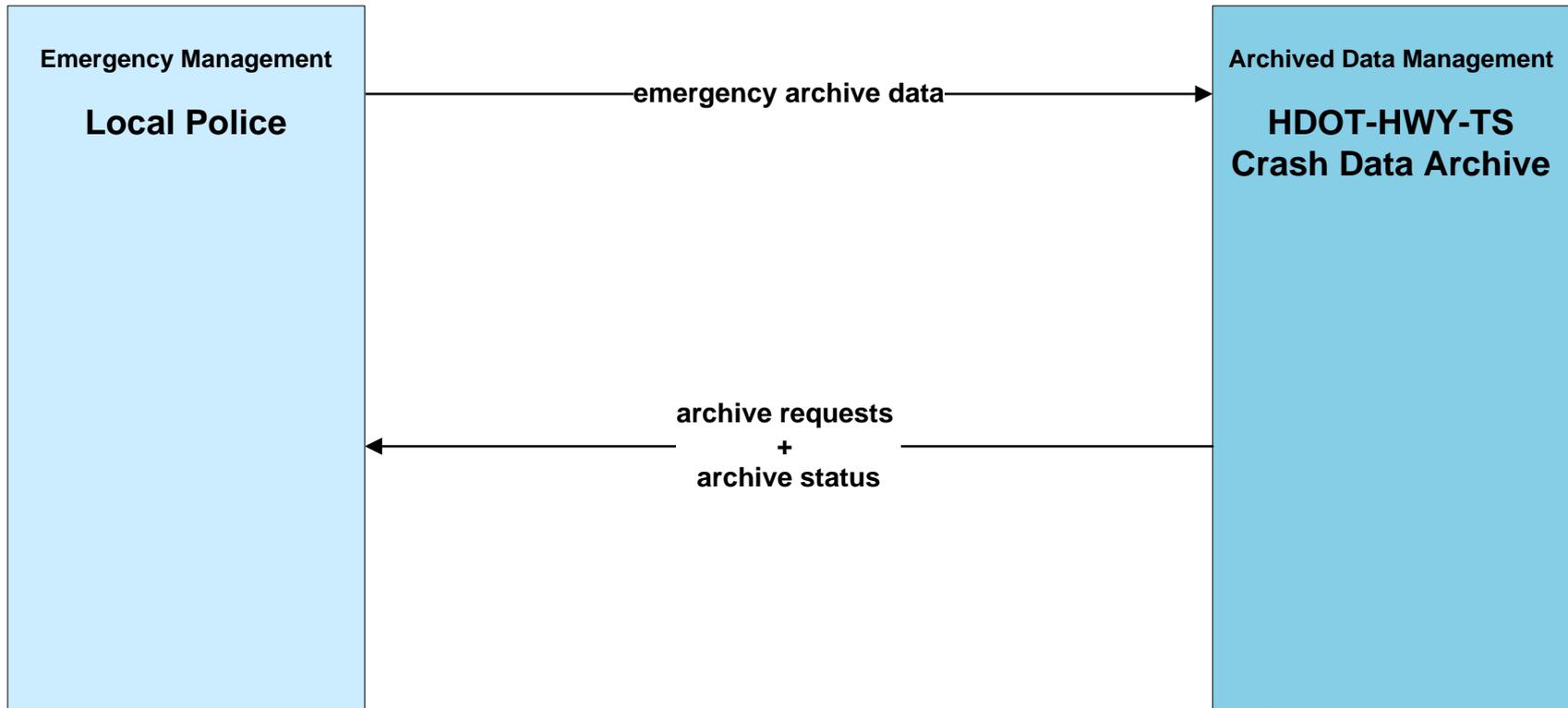
LEGEND
planned and future flow
----->
existing flow
—————>
flow name_ud = user
defined flow

Hawaii Statewide ITS Architecture

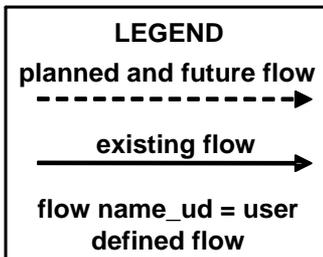
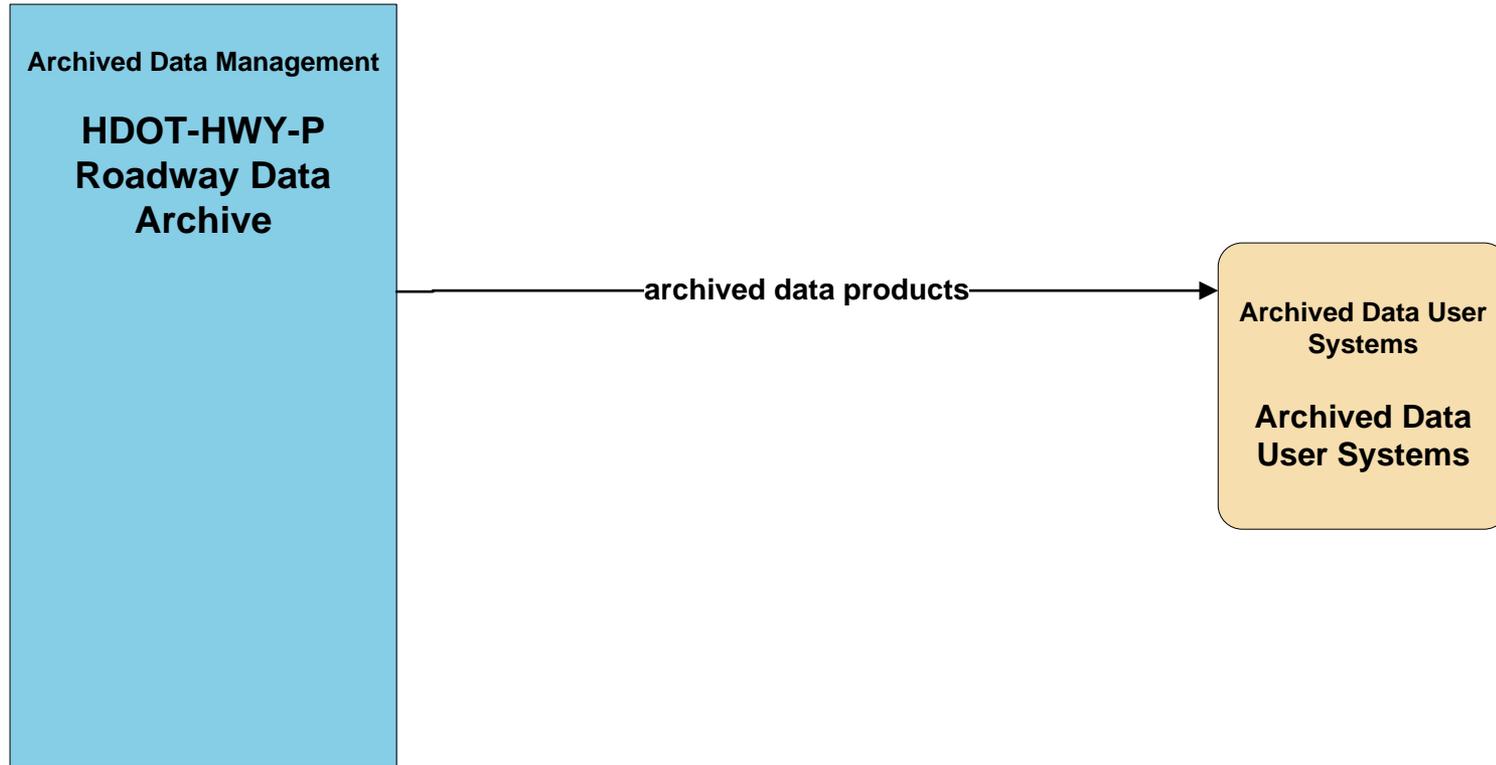
Customized Service Package Diagrams

Archived Data (AD)

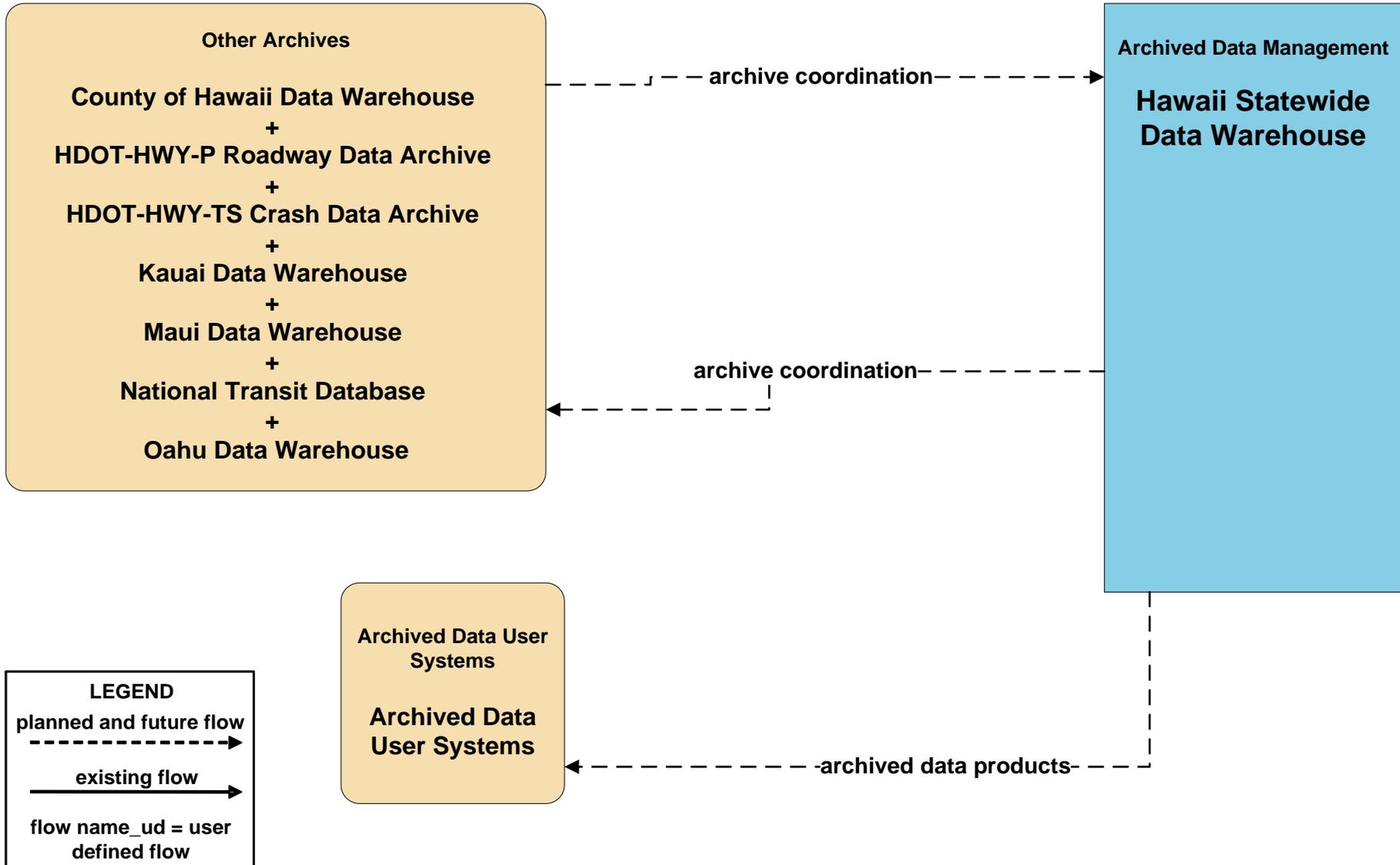
**AD2 - ITS Virtual Data Warehouse
HDOT Highways (HDOT-HWY-TS)**



**AD2 - ITS Virtual Data Warehouse
HDOT Highways (HDOT-HWY-P)**



AD3 - ITS Virtual Data Warehouse Hawaii Statewide Data Warehouse

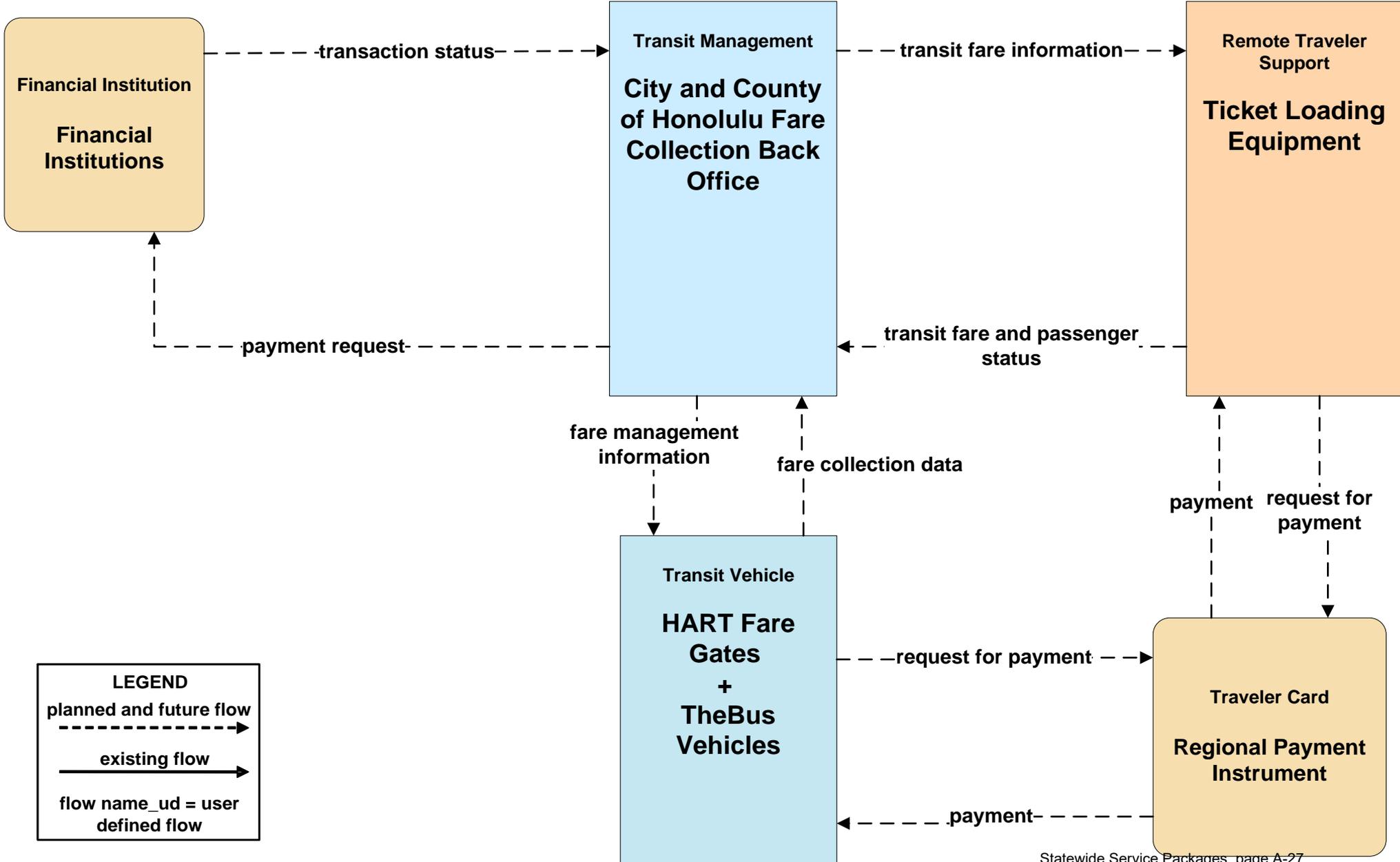


Hawaii Statewide ITS Architecture

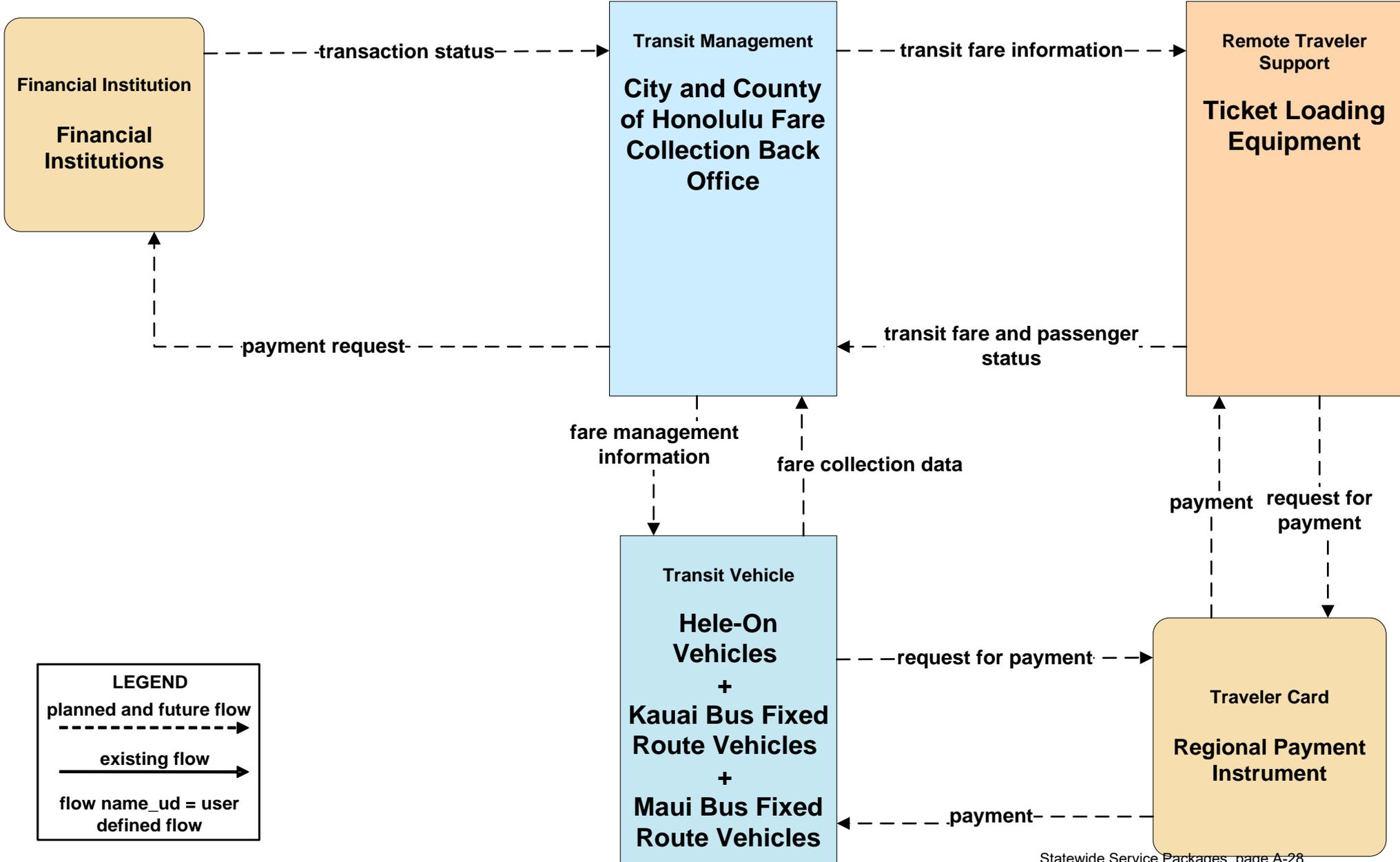
Customized Service Package Diagrams

**Advanced Public Transportation Systems
(APTS)**

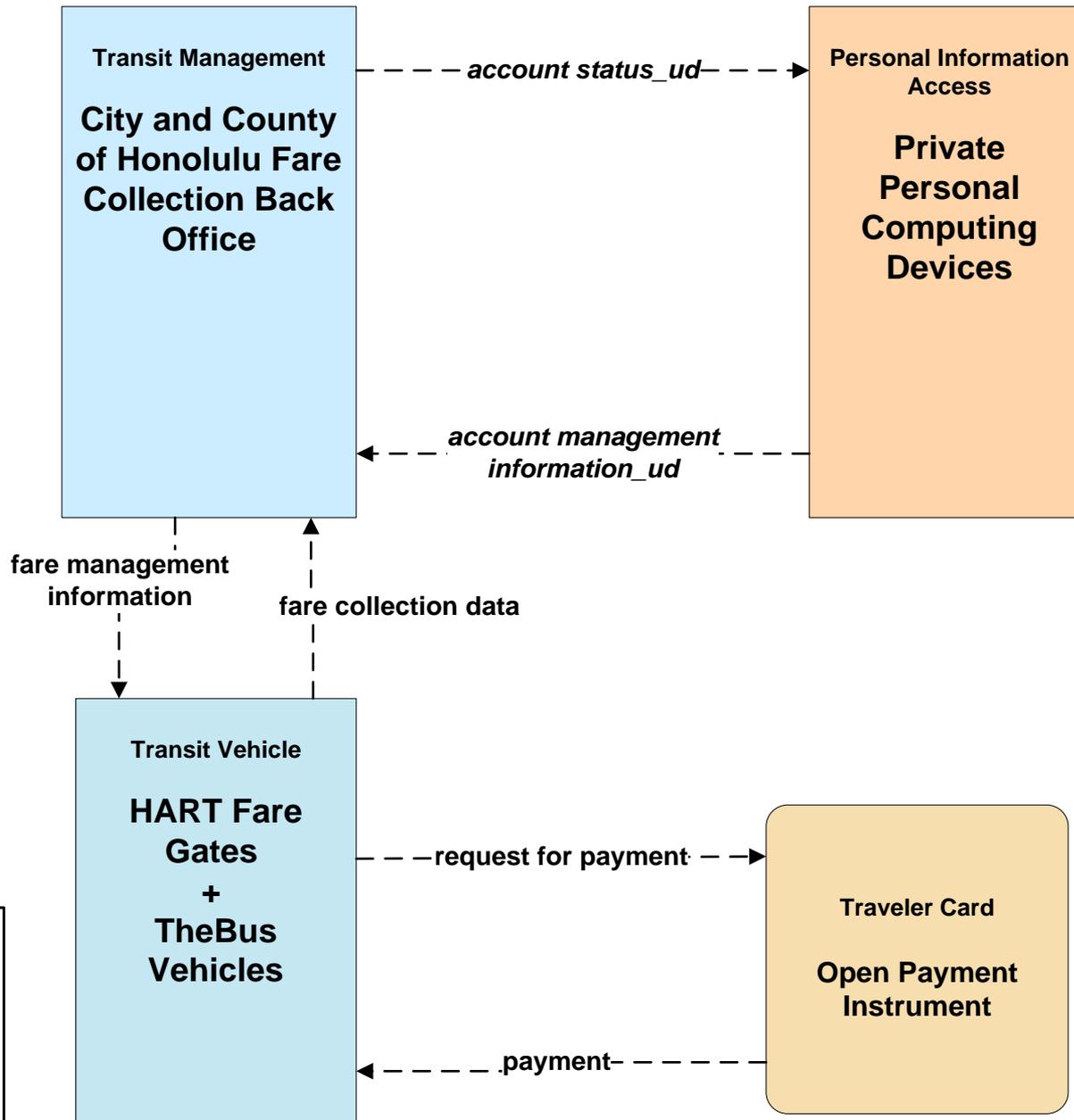
APTS04 - Transit Fare Collection Management Regional Payment Instrument (1 of 4)



**APTS04 - Transit Fare Collection Management
Regional Payment Instrument (2 of 4)**



APTS04 - Transit Fare Collection Management Regional Payment Instrument (3 of 4)



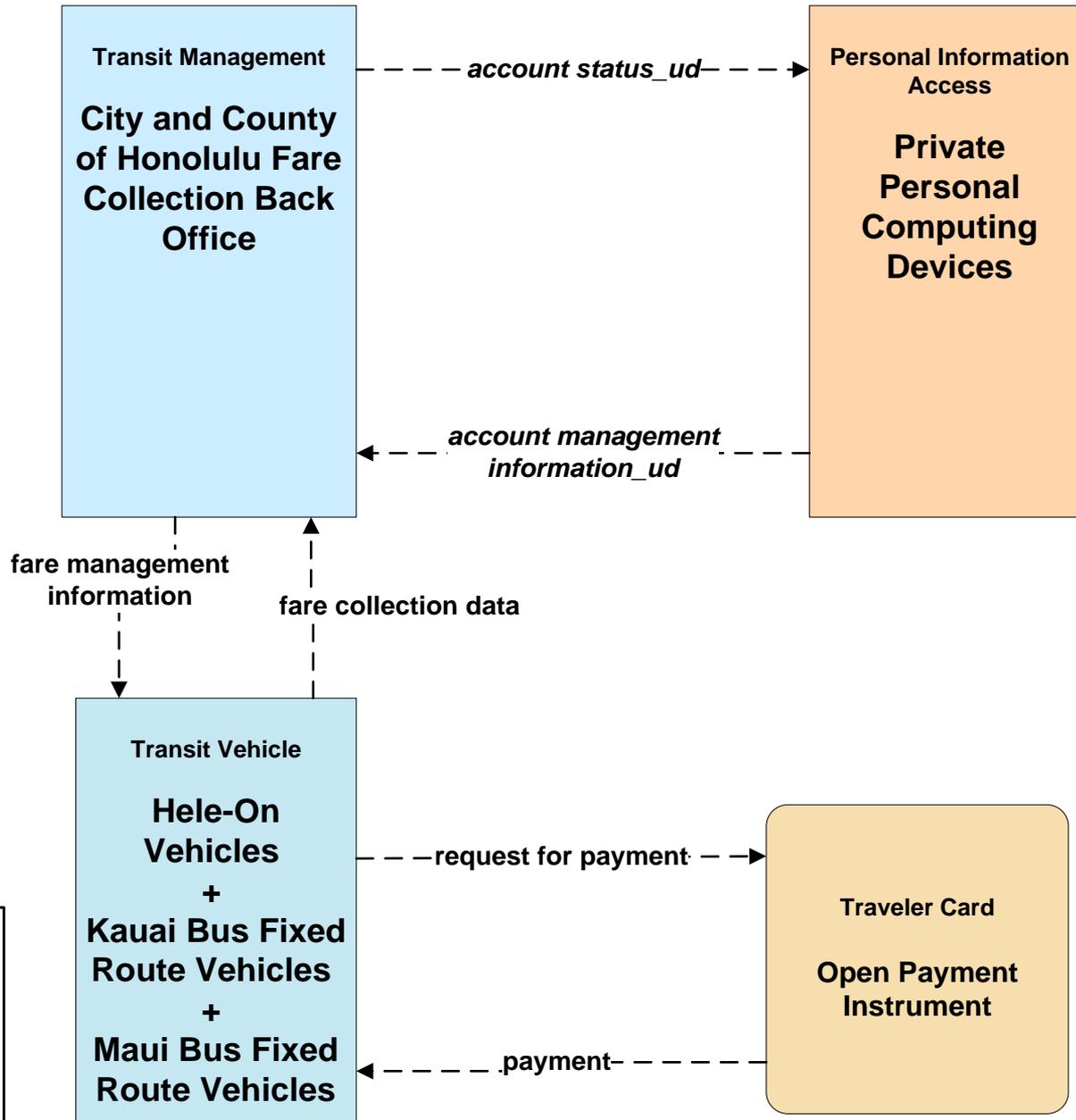
LEGEND

planned and future flow
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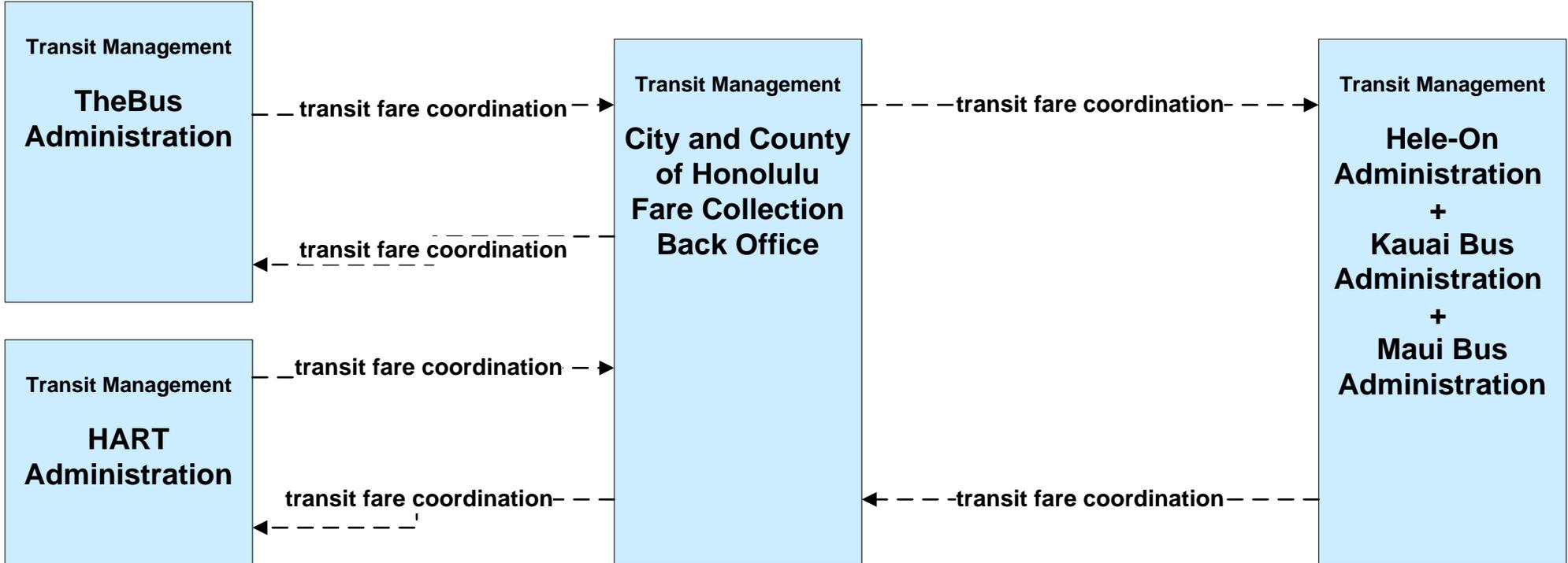
existing flow
----->

flow name_ud = user
defined flow

**APTS04 - Transit Fare Collection Management
Regional Payment Instrument (4 of 4)**



APTS04 - Transit Fare Collection Management Regional Fare Reconciliation



This package represents reconciliation of fares between the City and County of Honolulu and other regional agencies.

LEGEND

planned and future flow
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existing flow
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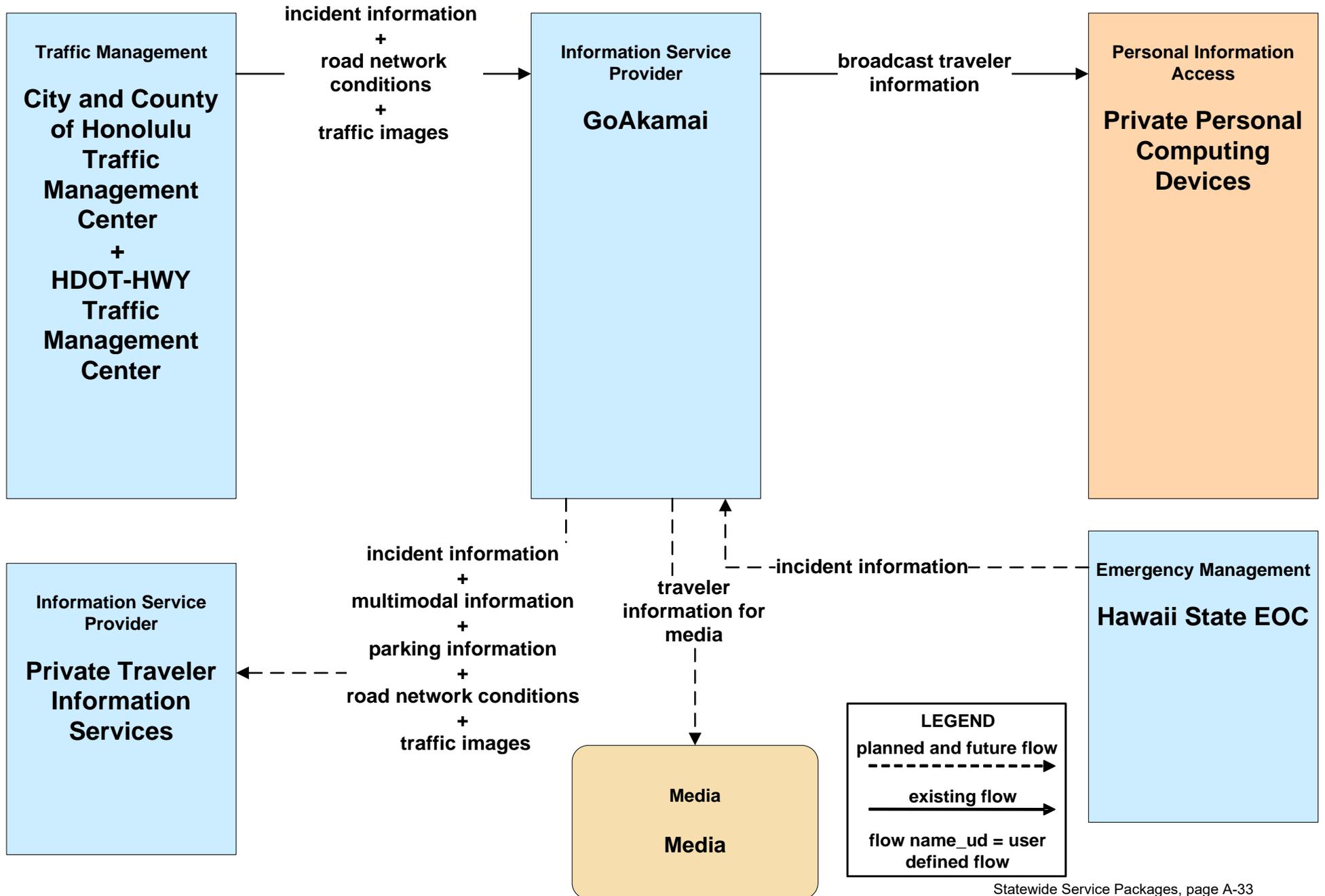
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Hawaii Statewide ITS Architecture

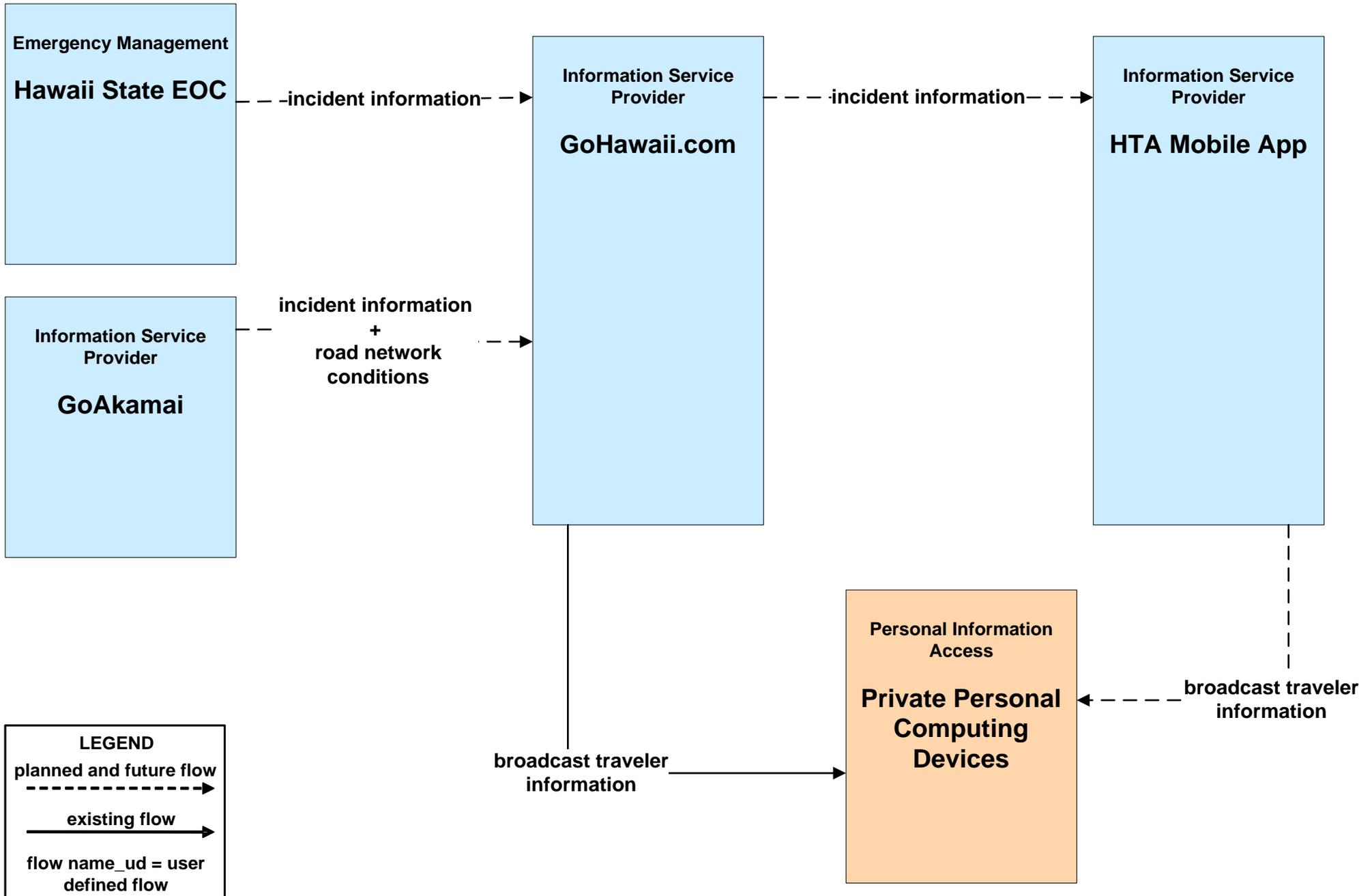
Customized Service Package Diagrams

Advanced Traveler Information Systems (ATIS)

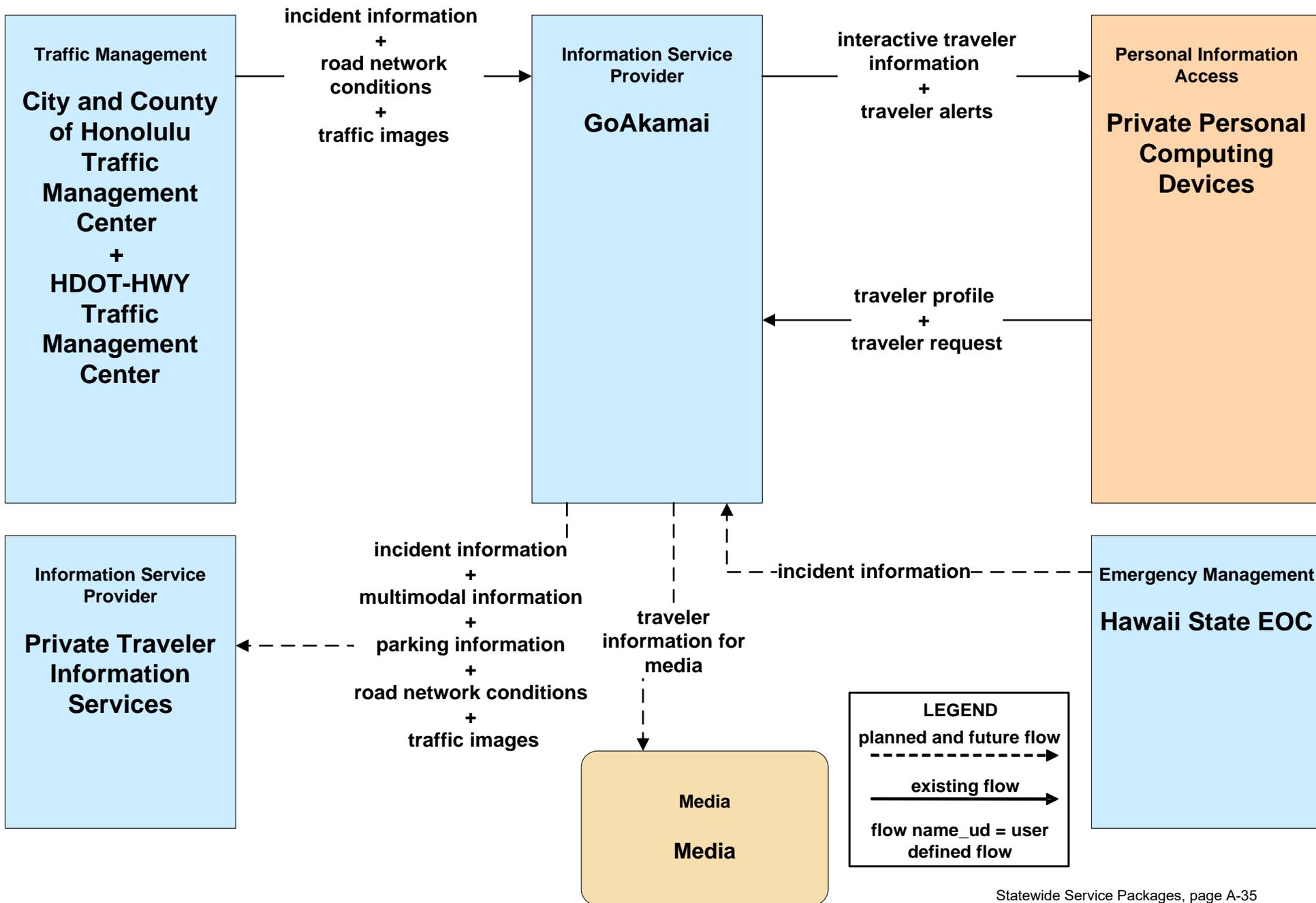
ATIS01 - Broadcast Traveler Information HDOT GoAkamai



ATIS01 - Broadcast Traveler Information HTA Safety and Security Information



ATIS02 - Interactive Traveler Information HDOT GoAkamai

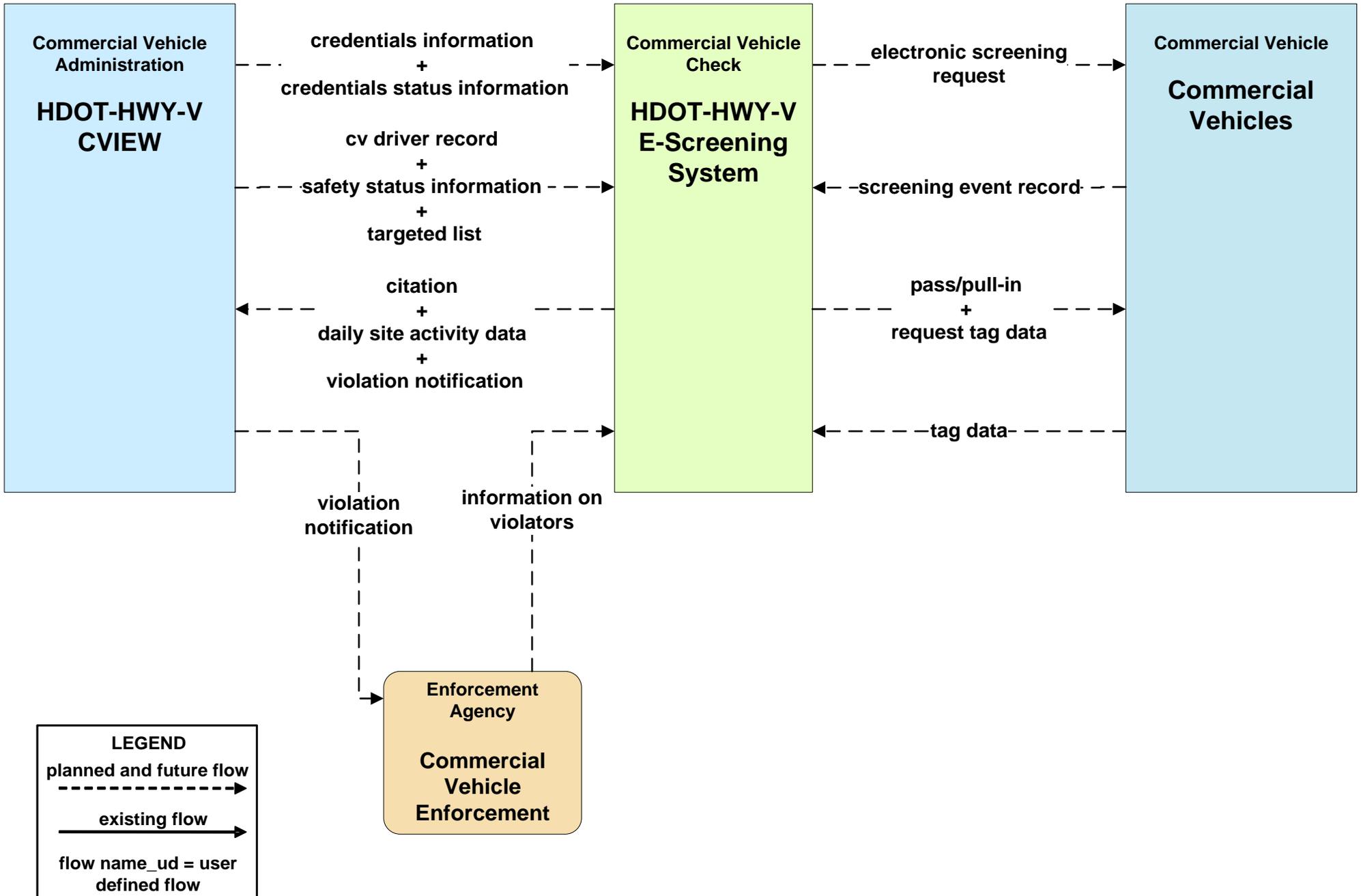


Hawaii Statewide ITS Architecture

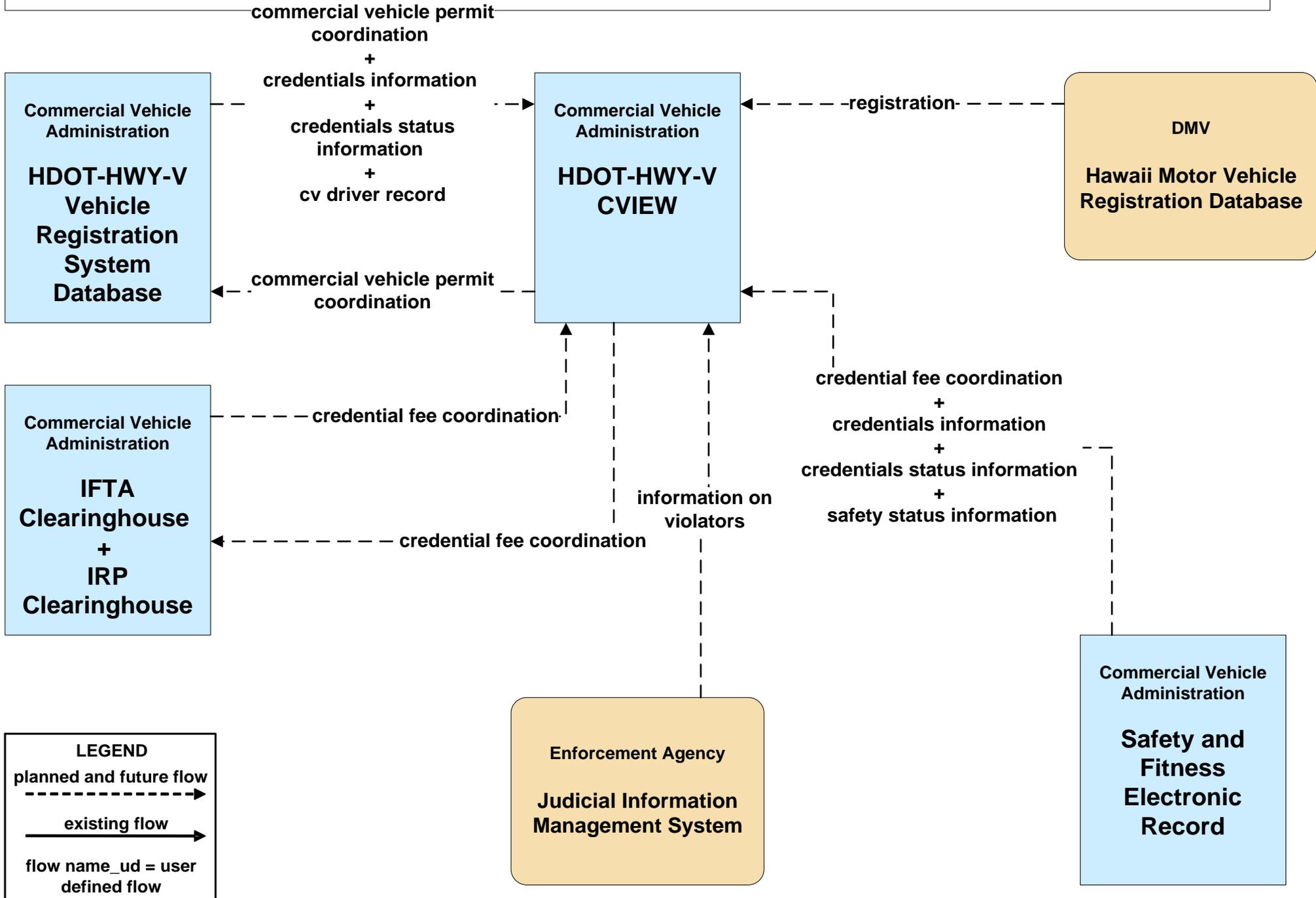
Customized Service Package Diagrams

Commercial Vehicle Operations (CVO)

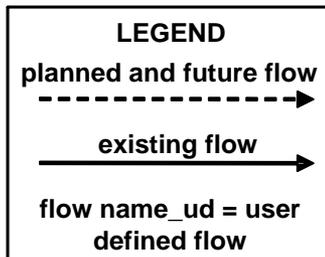
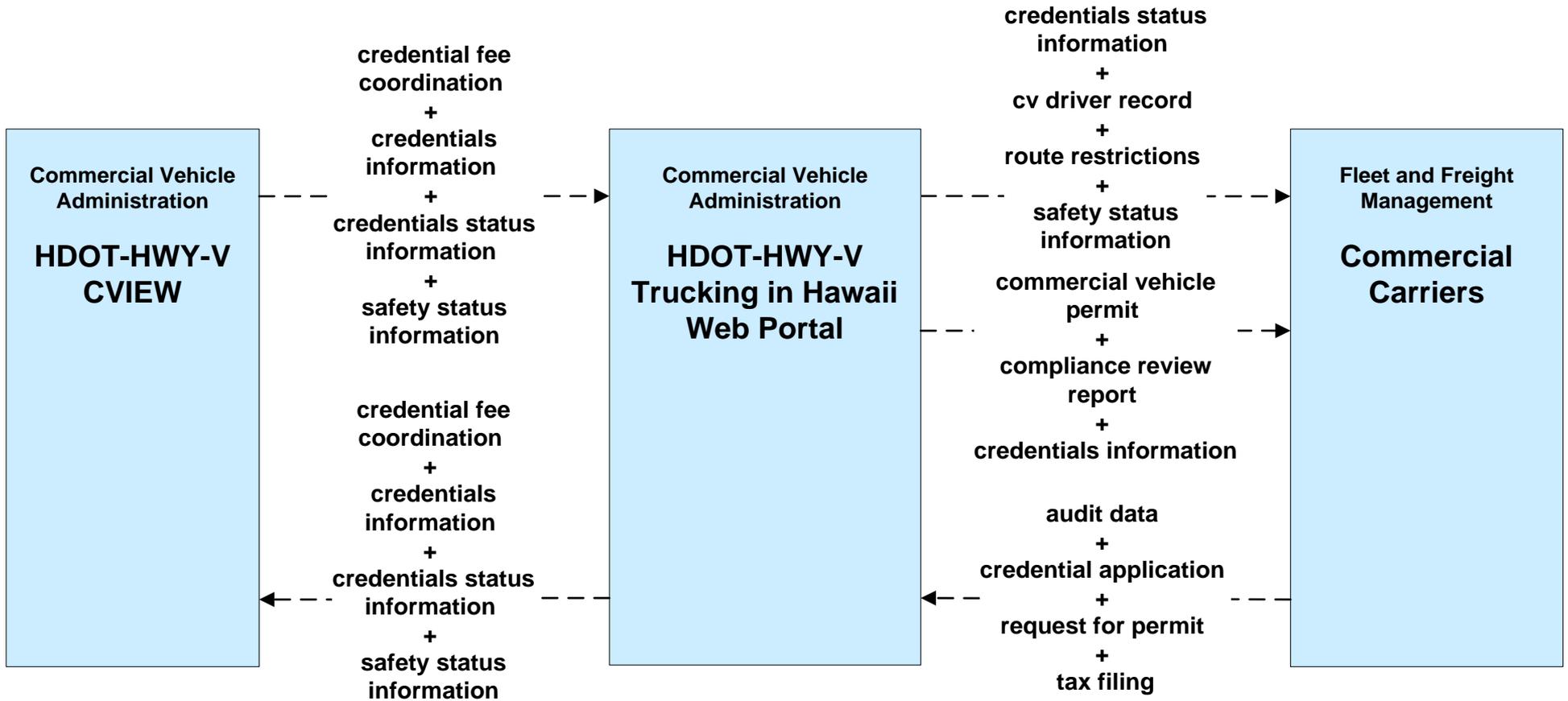
CVO03 - Electronic Clearance HDOT-HWY-V E-Screening



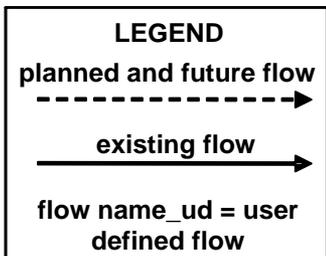
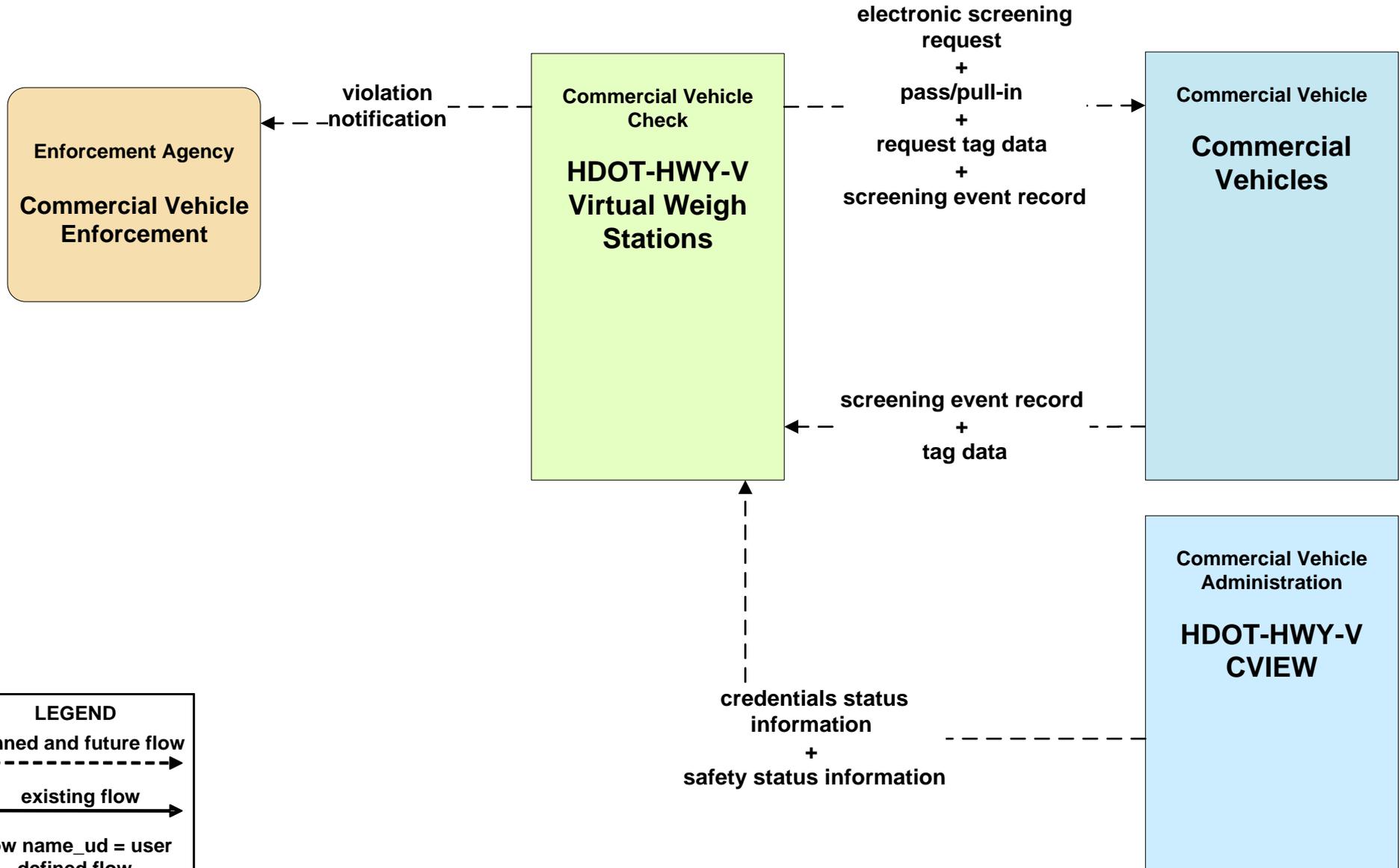
CVO04 - CV Administrative Process HDOT-HWY-V CVIEW



CVO04 - CV Administrative Process HDOT-HWY-V Trucking in Hawaii Web Portal



CVO06 - Weigh-In-Motion HDOT-HWY-V Virtual Weigh Stations

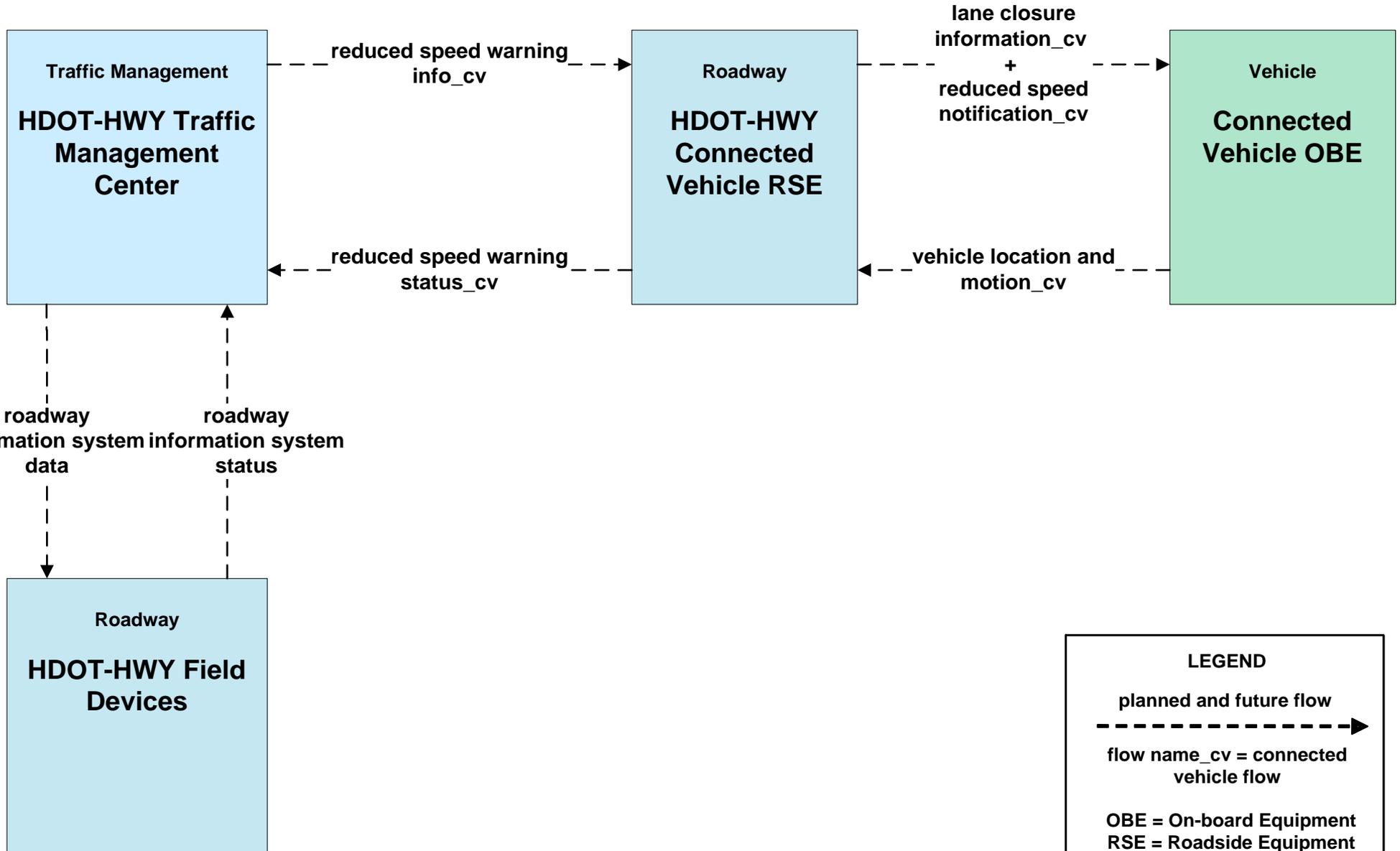


Hawaii Statewide ITS Architecture

Customized Service Package Diagrams

Connected Vehicle Safety Systems (AVSS)

AVSS12 - Connected Vehicle Safety Systems
HDOT-HWY Connected Vehicle Reduced Speed Zone Warning



LEGEND

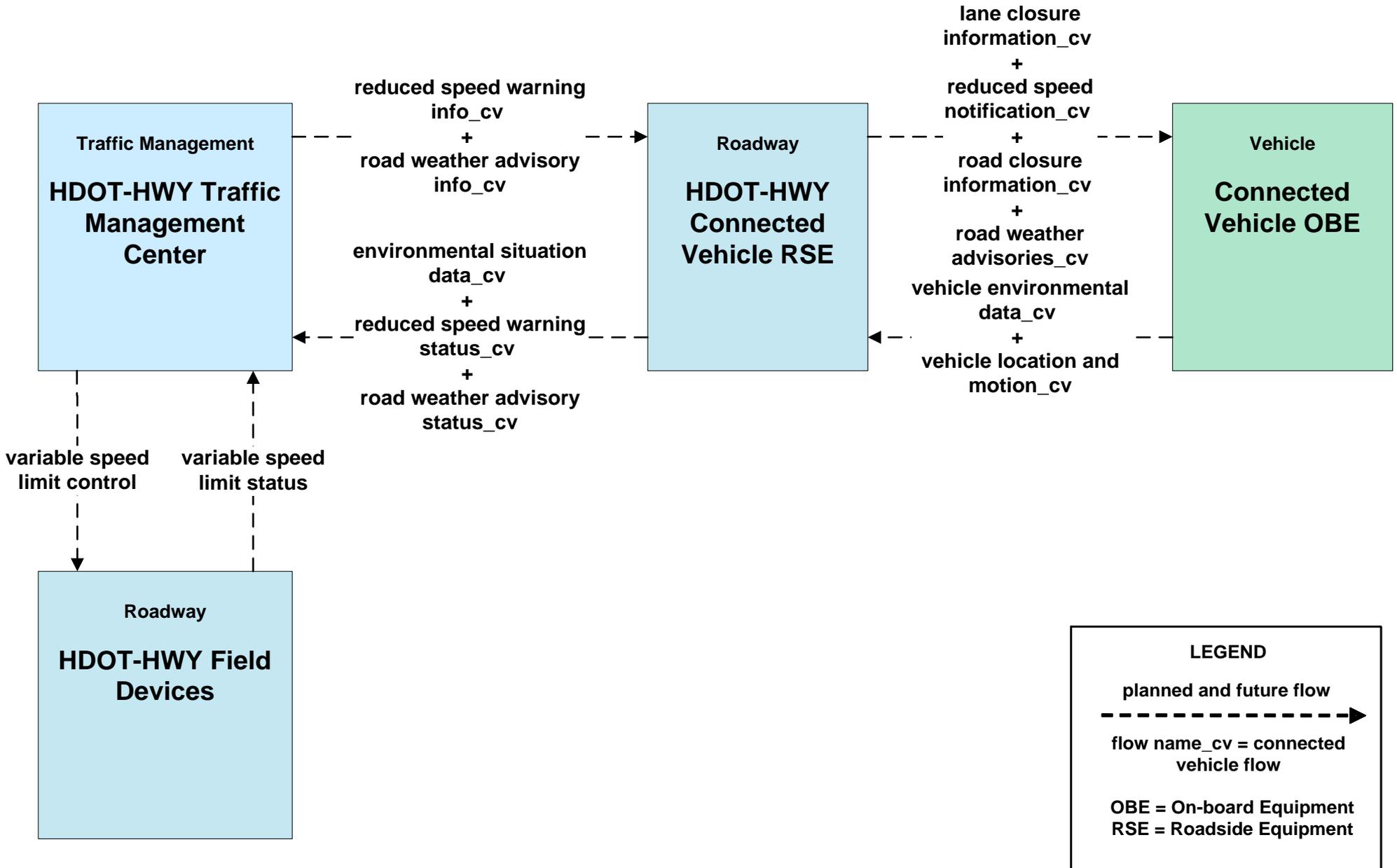
planned and future flow
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flow name_cv = connected vehicle flow

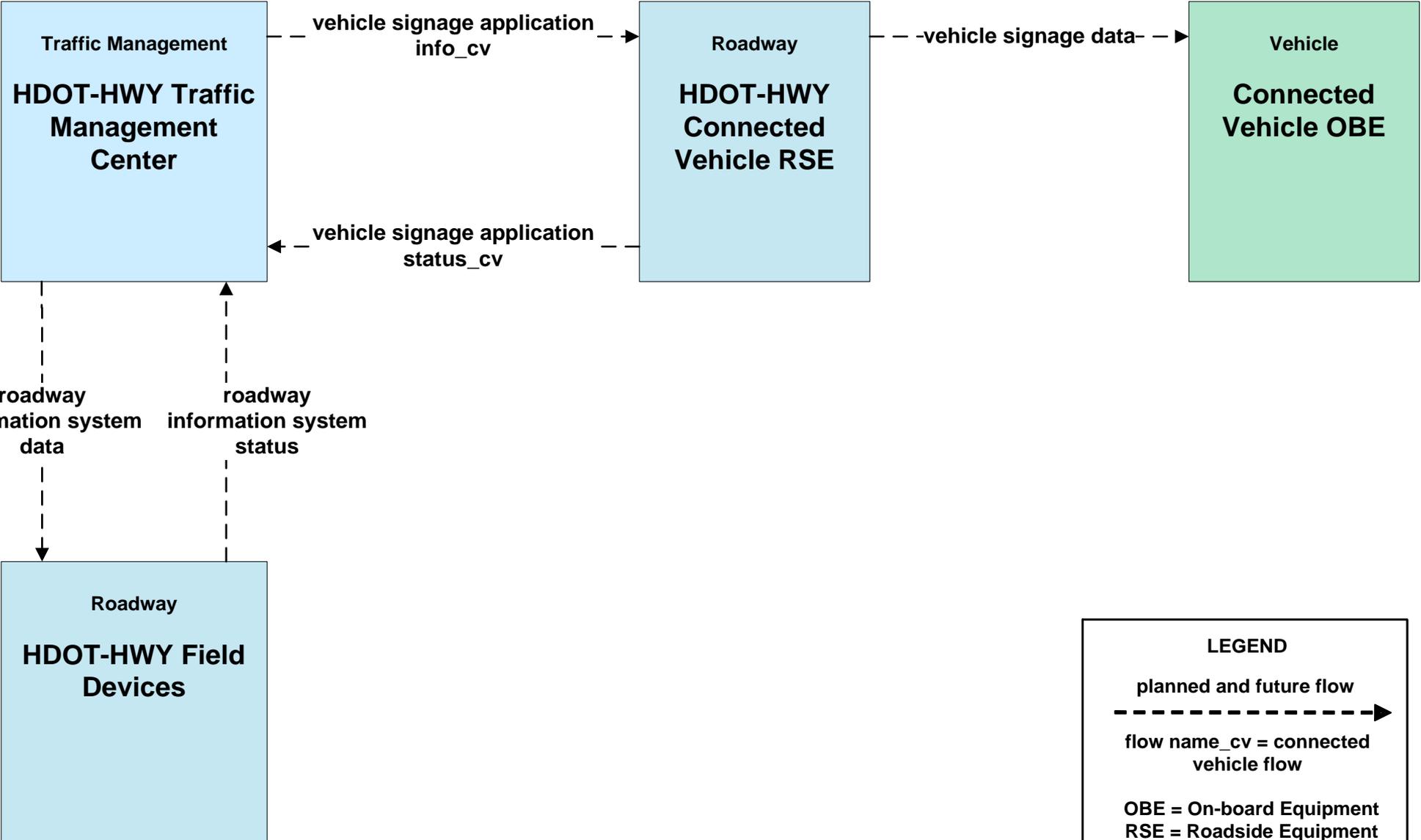
OBE = On-board Equipment
 RSE = Roadside Equipment

AVSS12 - Connected Vehicle Safety Systems

HDOT-HWY Connected Vehicle Spot Weather Impact Warning



**AVSS12 - Connected Vehicle Safety Systems
 HDOT-HWY Connected Vehicle Work Zone Warning**



LEGEND

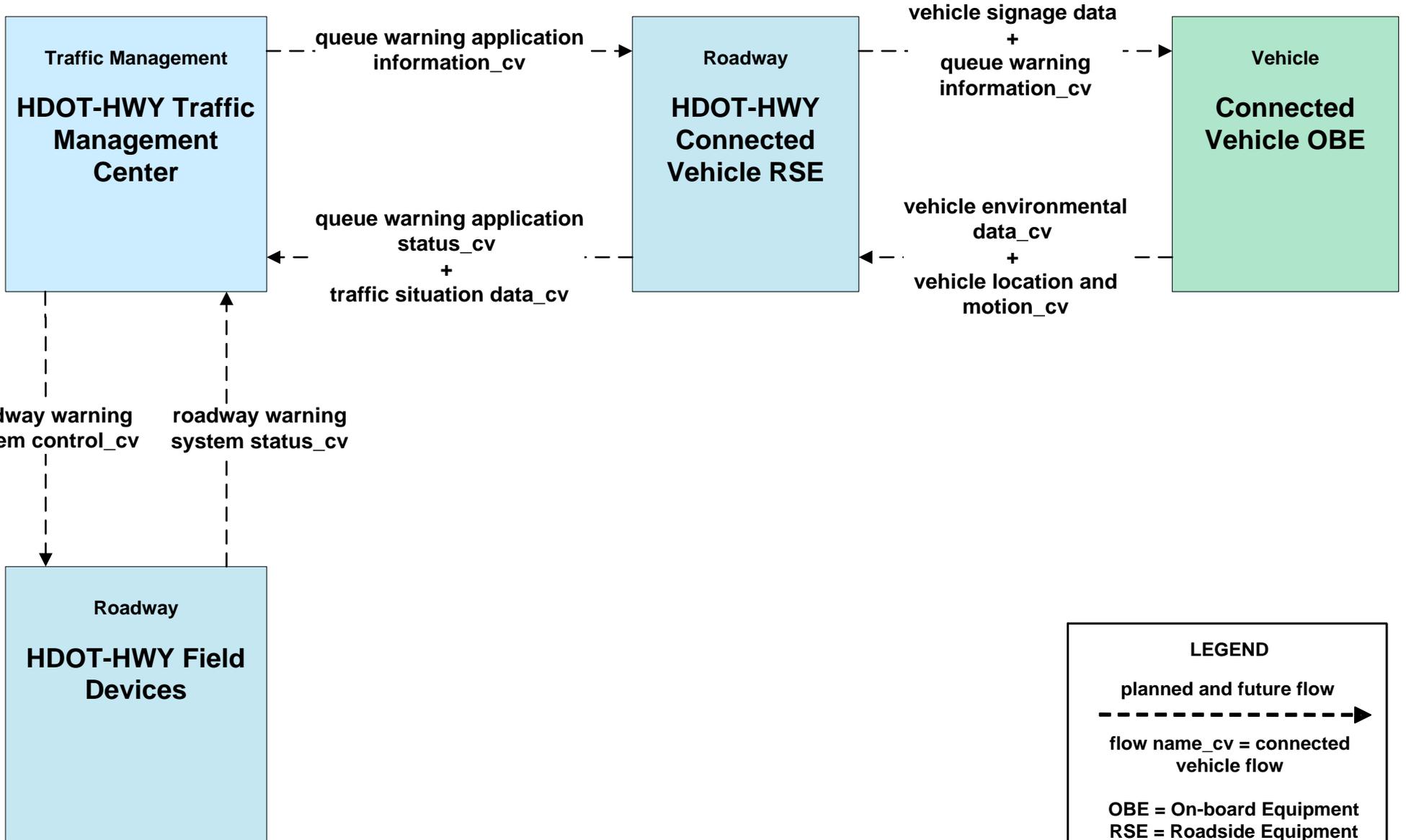
planned and future flow
 - - - - ->

flow name_cv = connected vehicle flow

OBE = On-board Equipment
 RSE = Roadside Equipment

AVSS12 - Connected Vehicle Safety Systems

HDOT-HWY Connected Vehicle Queue Warning



LEGEND

planned and future flow
 ----->

flow name_cv = connected vehicle flow

OBE = On-board Equipment
 RSE = Roadside Equipment

**AVSS12 - Connected Vehicle Safety Systems
 HDOT-HWY Connected Vehicle Data For Traffic Operations**

