APPENDIX E

KAUAI CUSTOMIZED SERVICE PACKAGE DIAGRAMS

Kauai Regional ITS Architecture

Customized Service Package Diagrams

based on
National ITS Architecture Version 7.0

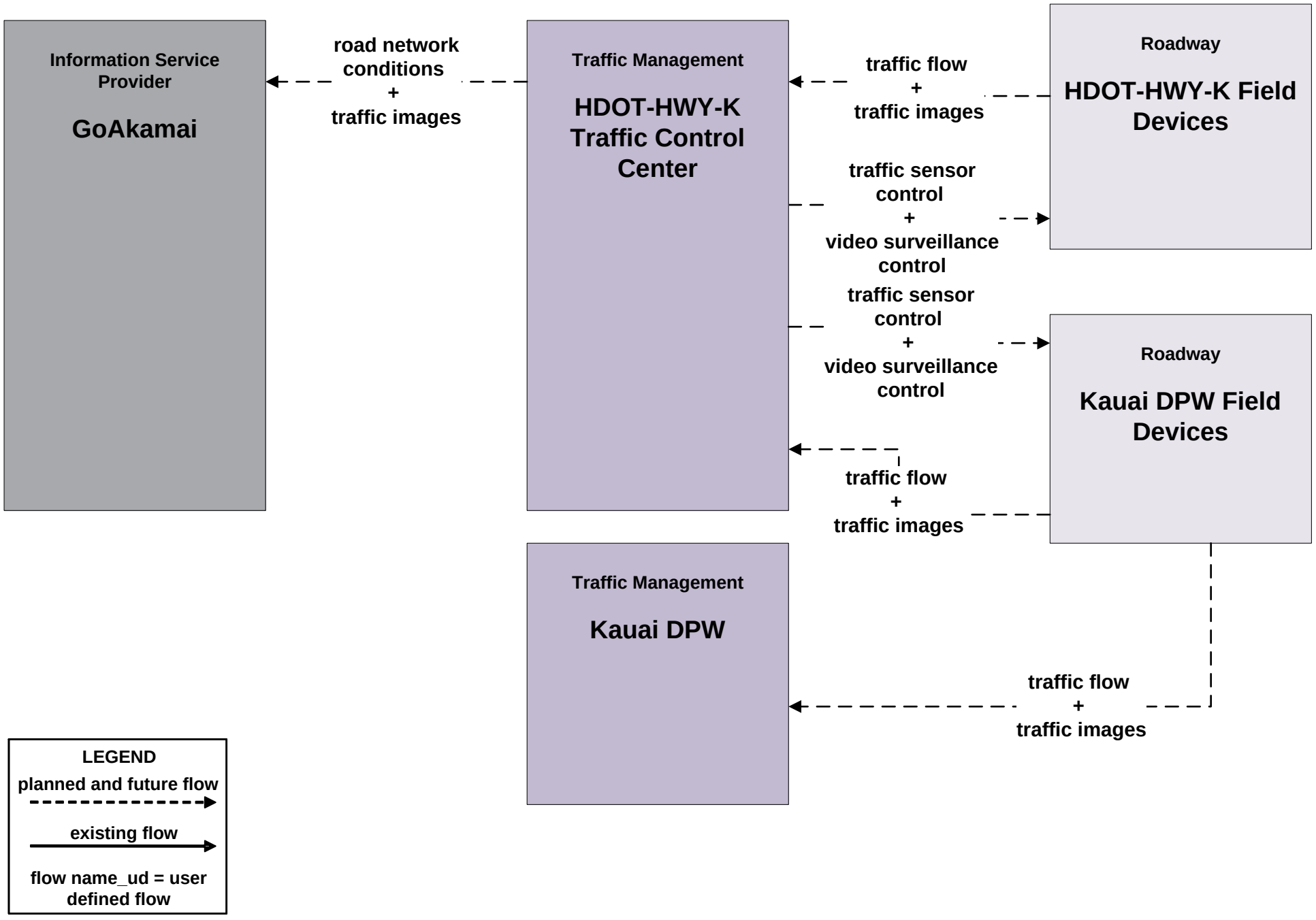
April 4th, 2017

Kauai Regional ITS Architecture

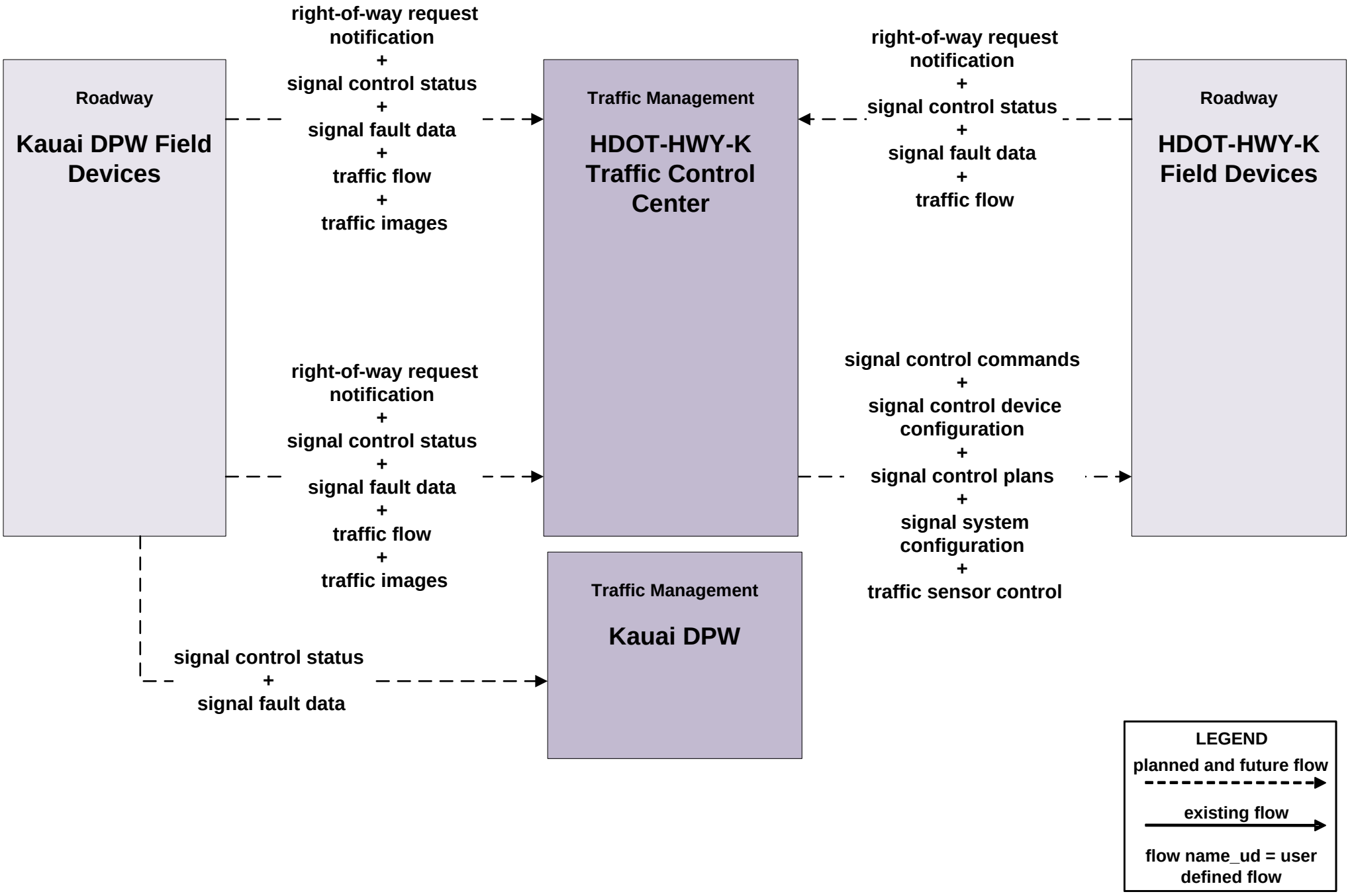
Customized Service Package Diagrams

Advanced Traffic Management Systems (ATMS)

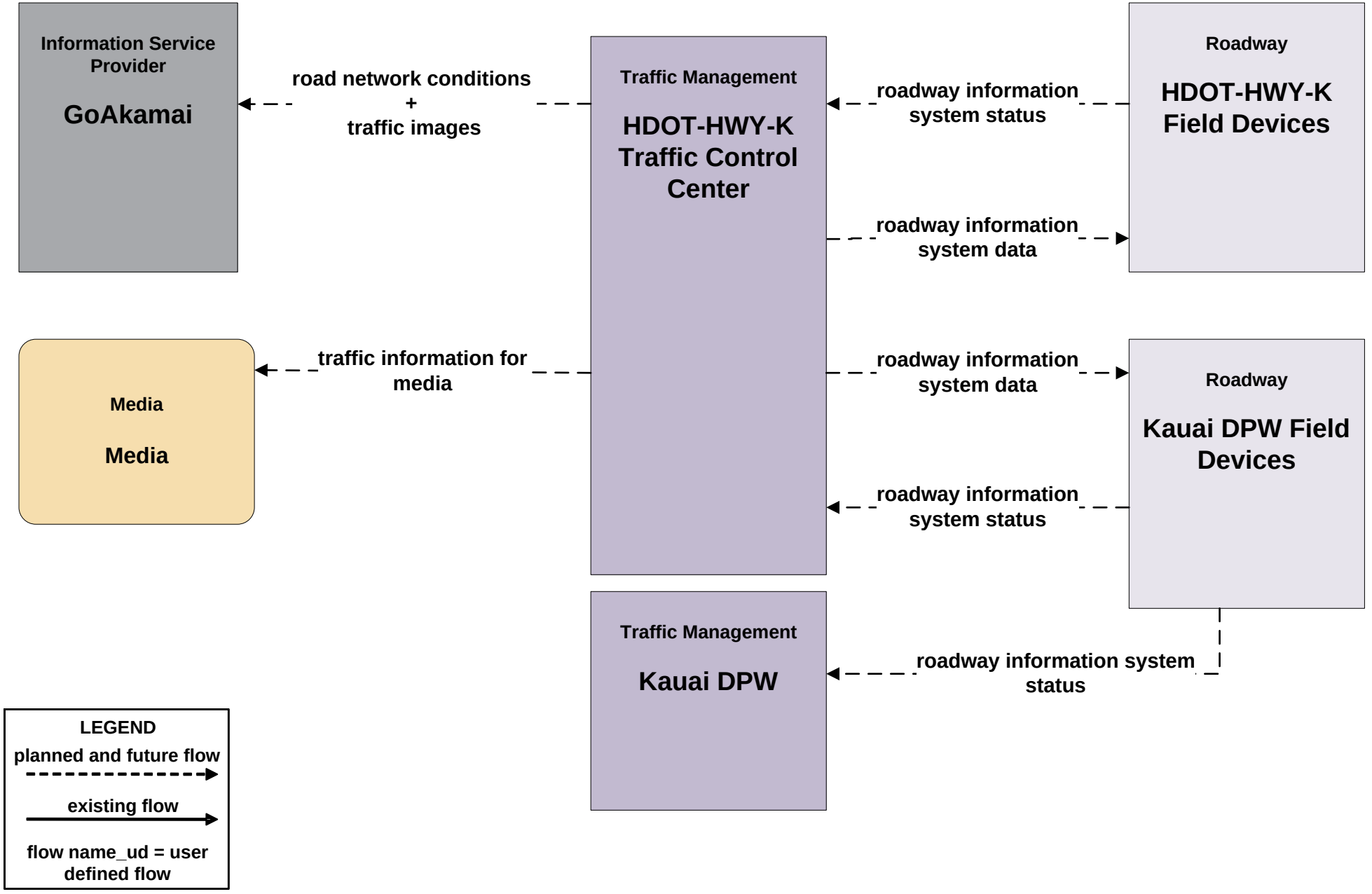
ATMS01 - Network Surveillance
HDOT Highways Kauai District (HDOT-HWY-K)



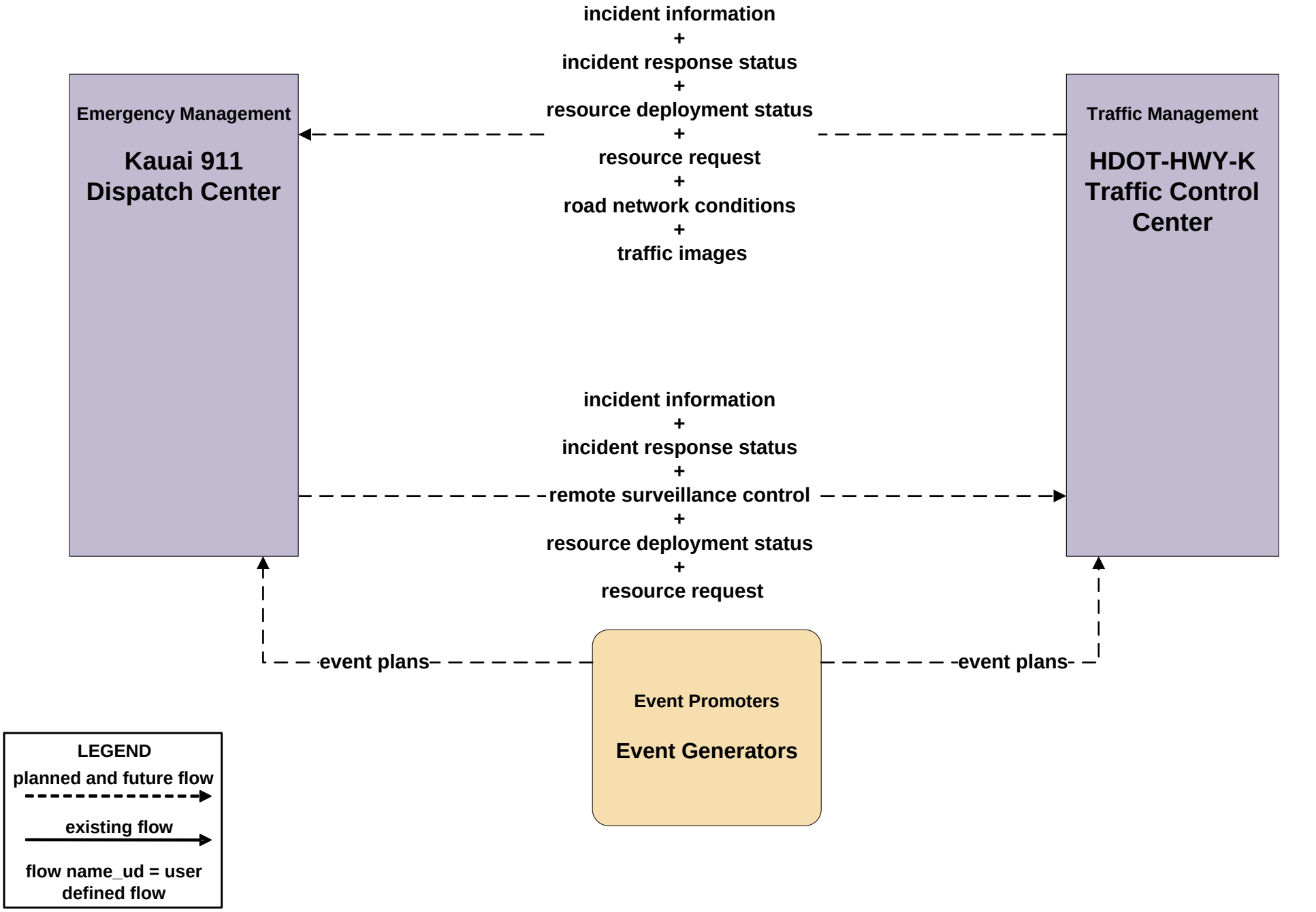
ATMS03 - Traffic Signal Control
HDOT Highways Kauai District (HDOT-HWY-K)



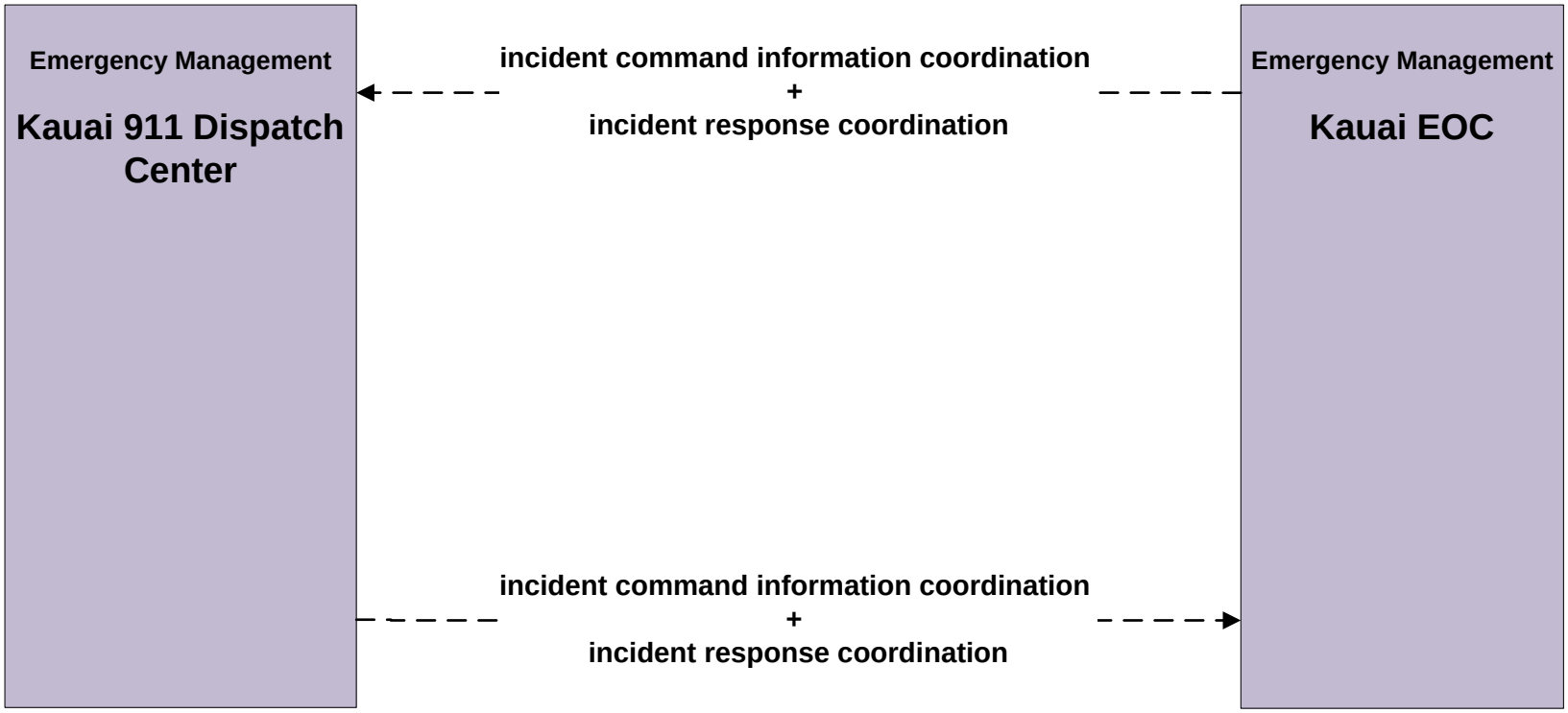
ATMS06 - Traffic Information Dissemination
HDOT Highways Kauai District (HDOT-HWY-K)



ATMS08 - Incident Management
HDOT Highways Kauai District (HDOT-HWY-K)



ATMS08 - Incident Management
Kauai Emergency Incident Coordination



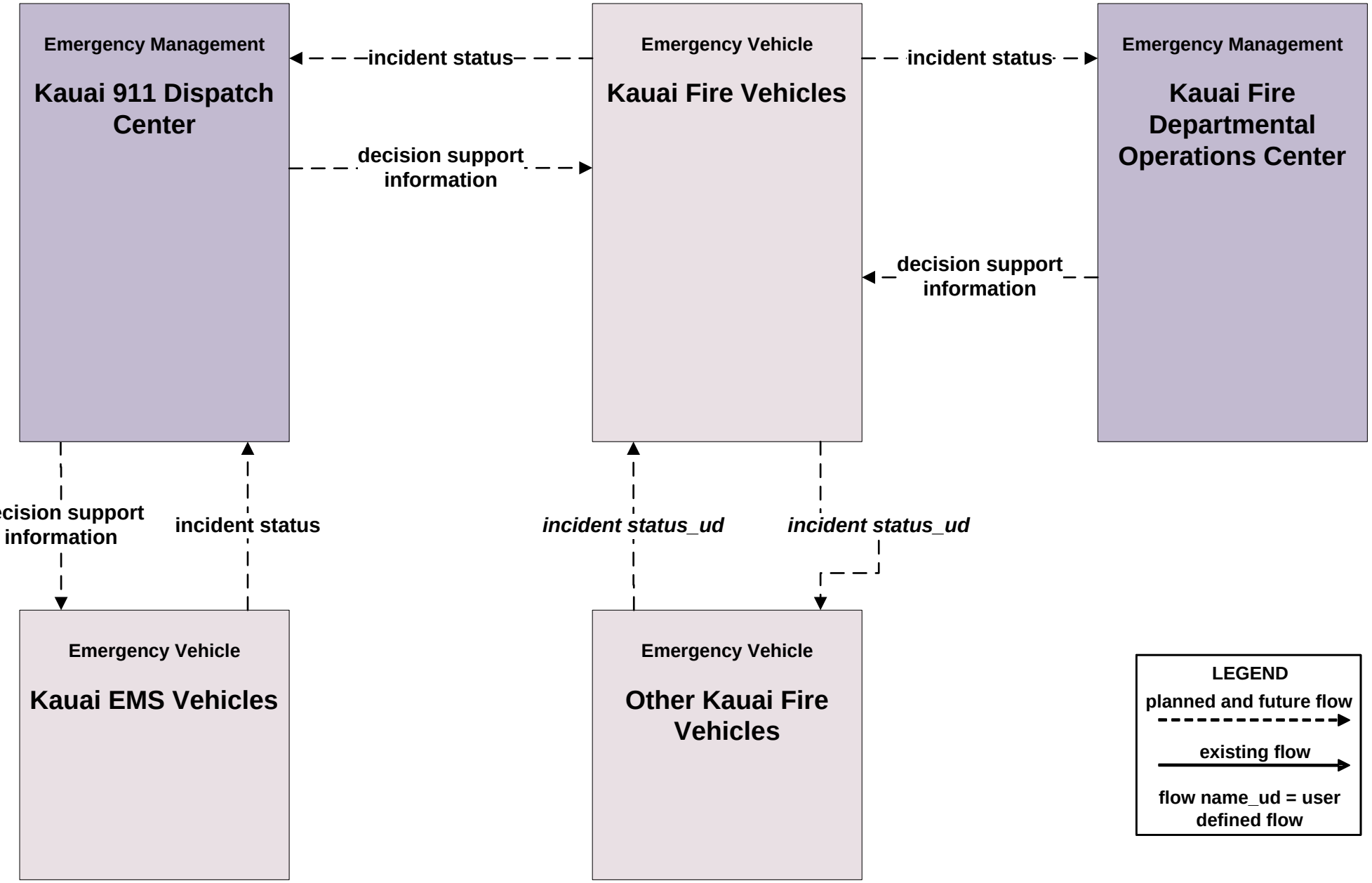
LEGEND

planned and future flow

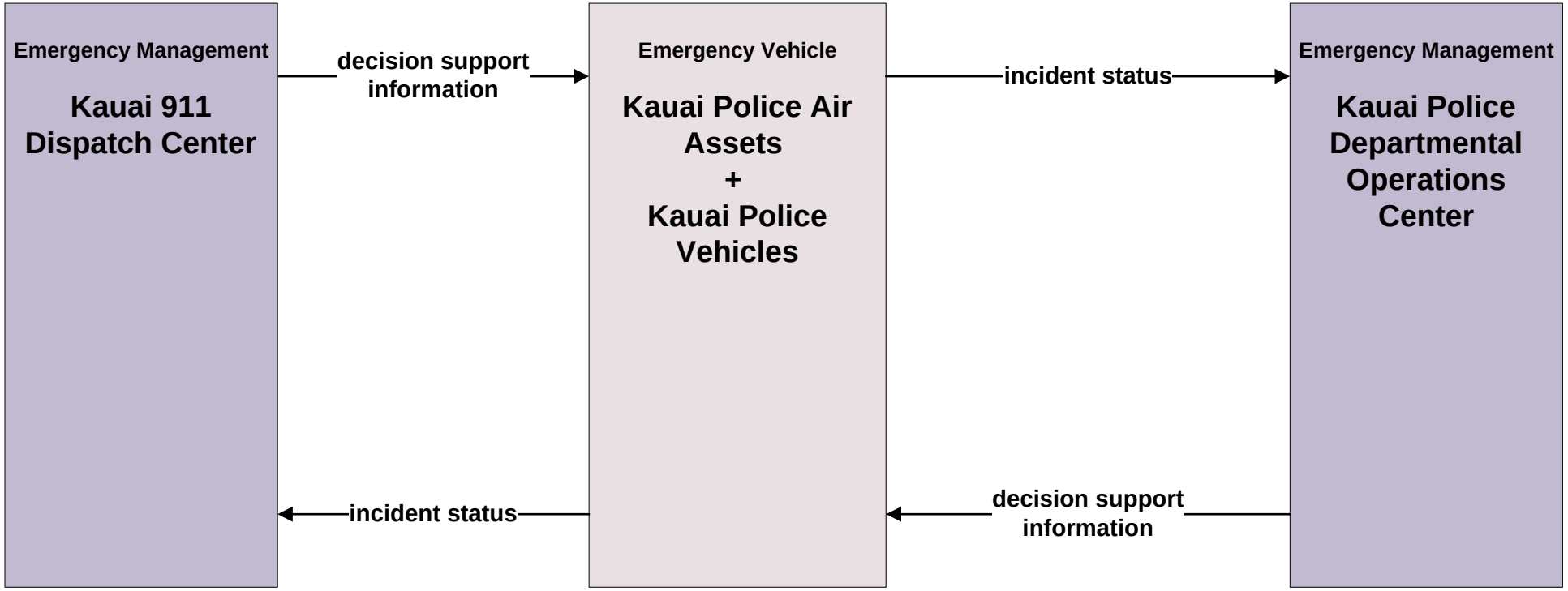
existing flow

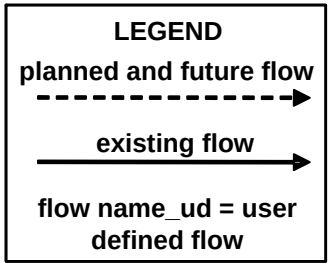
flow name_ud = user defined flow

ATMS08 - Incident Management
Kauai Emergency Vehicles

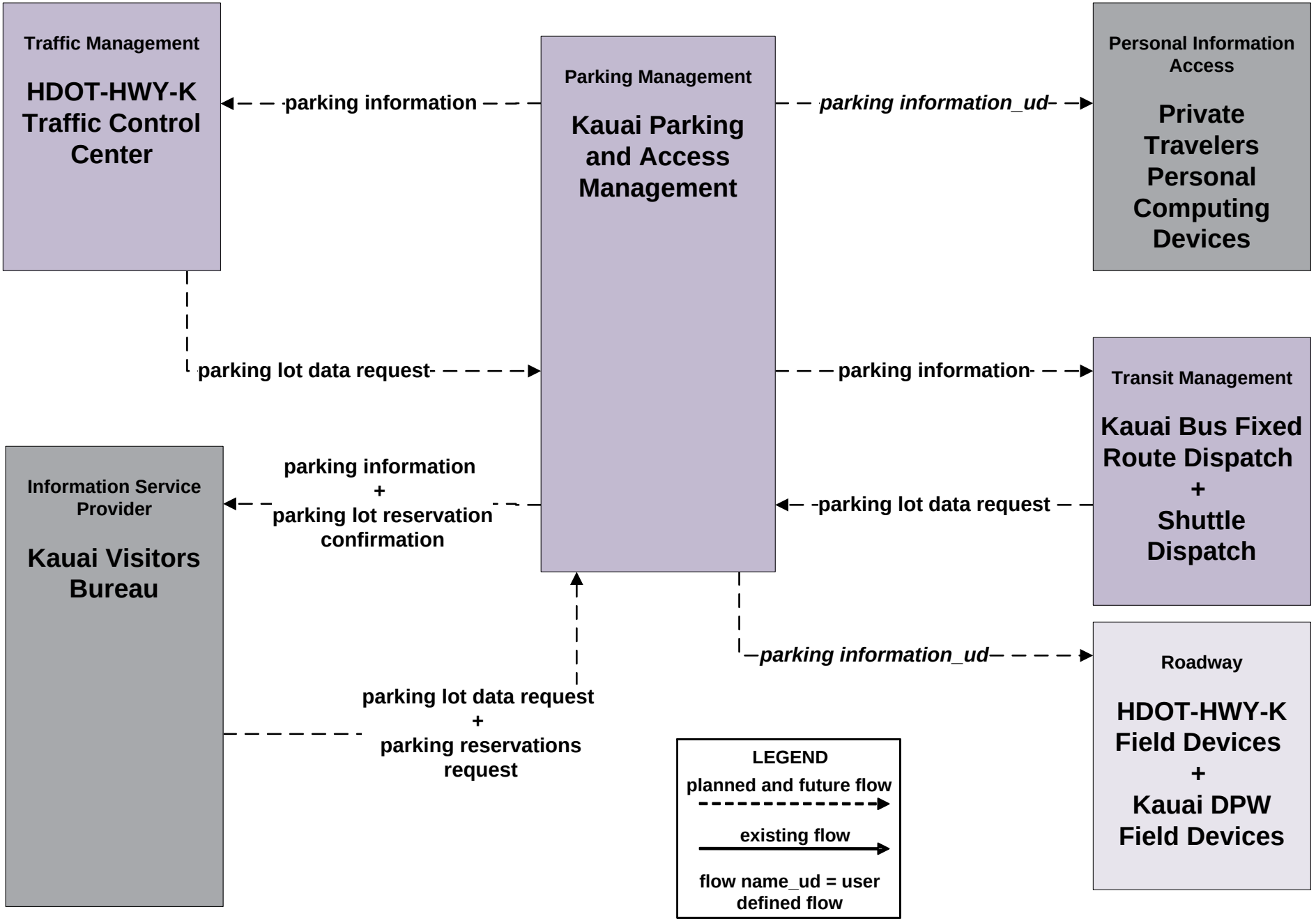


ATMS08 - Incident Management
Kauai Emergency Vehicles

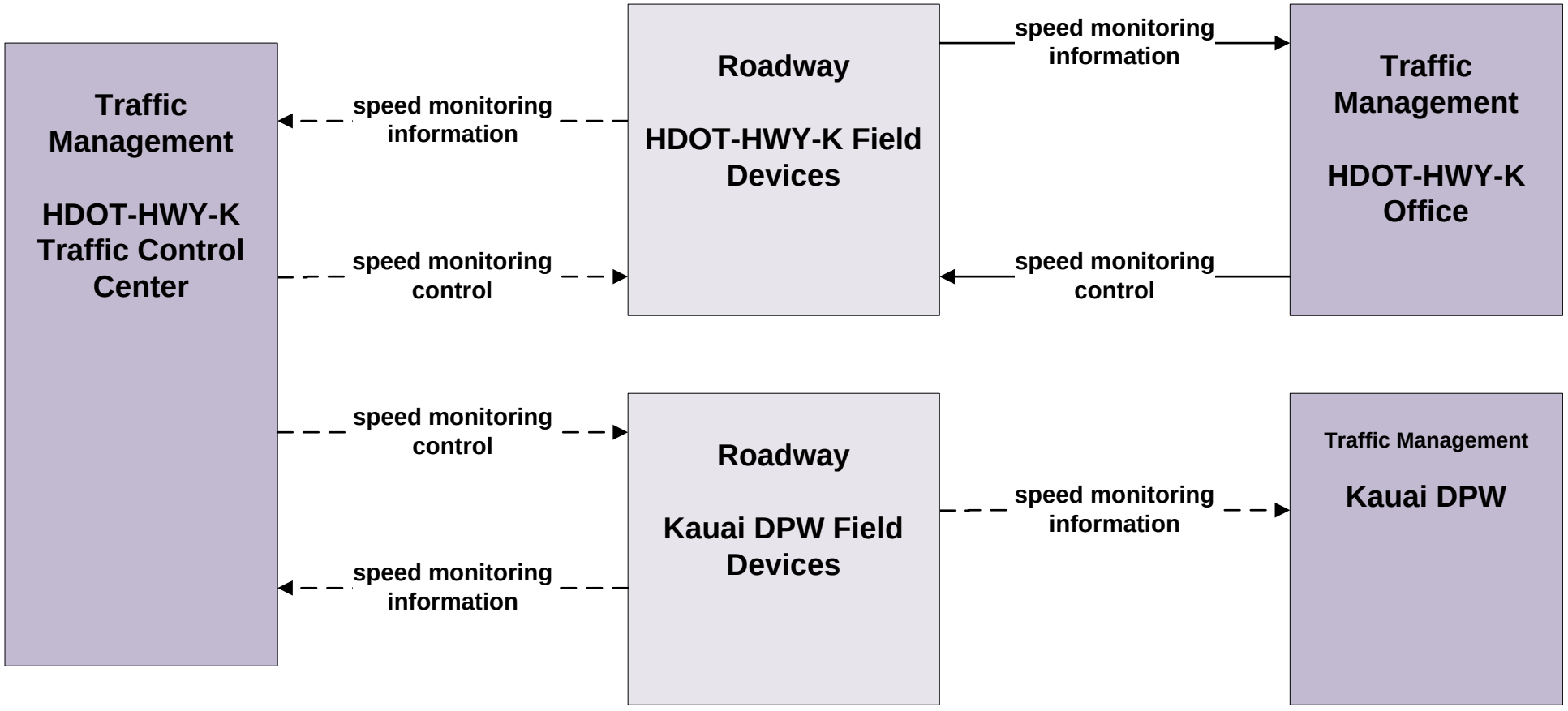




ATMS17 - Regional Parking Management
Kauai Parking and Access Management



ATMS19 - Speed Monitoring
HDOT Highways Kauai District (HDOT-HWY-K)



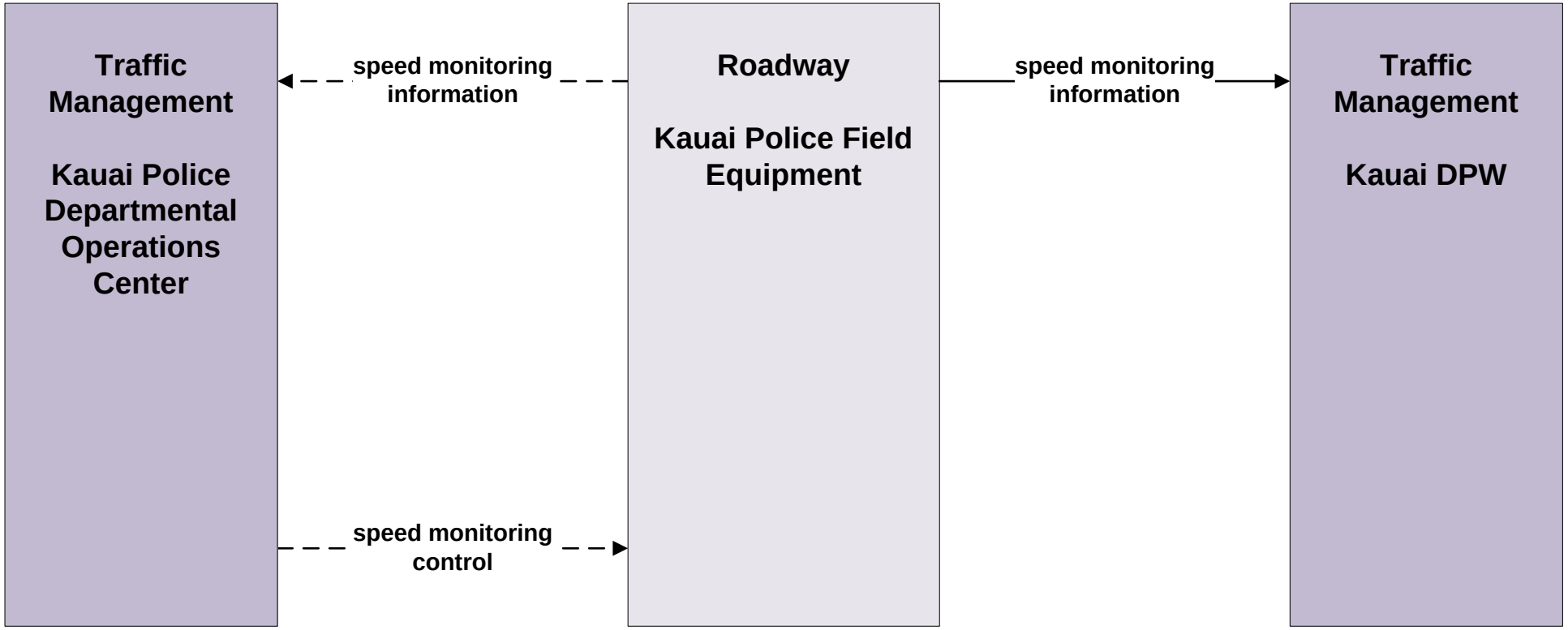
LEGEND

planned and future flow

existing flow

flow name_ud = user defined flow

ATMS19 - Speed Monitoring
Kauai Police Department



LEGEND

planned and future flow

existing flow

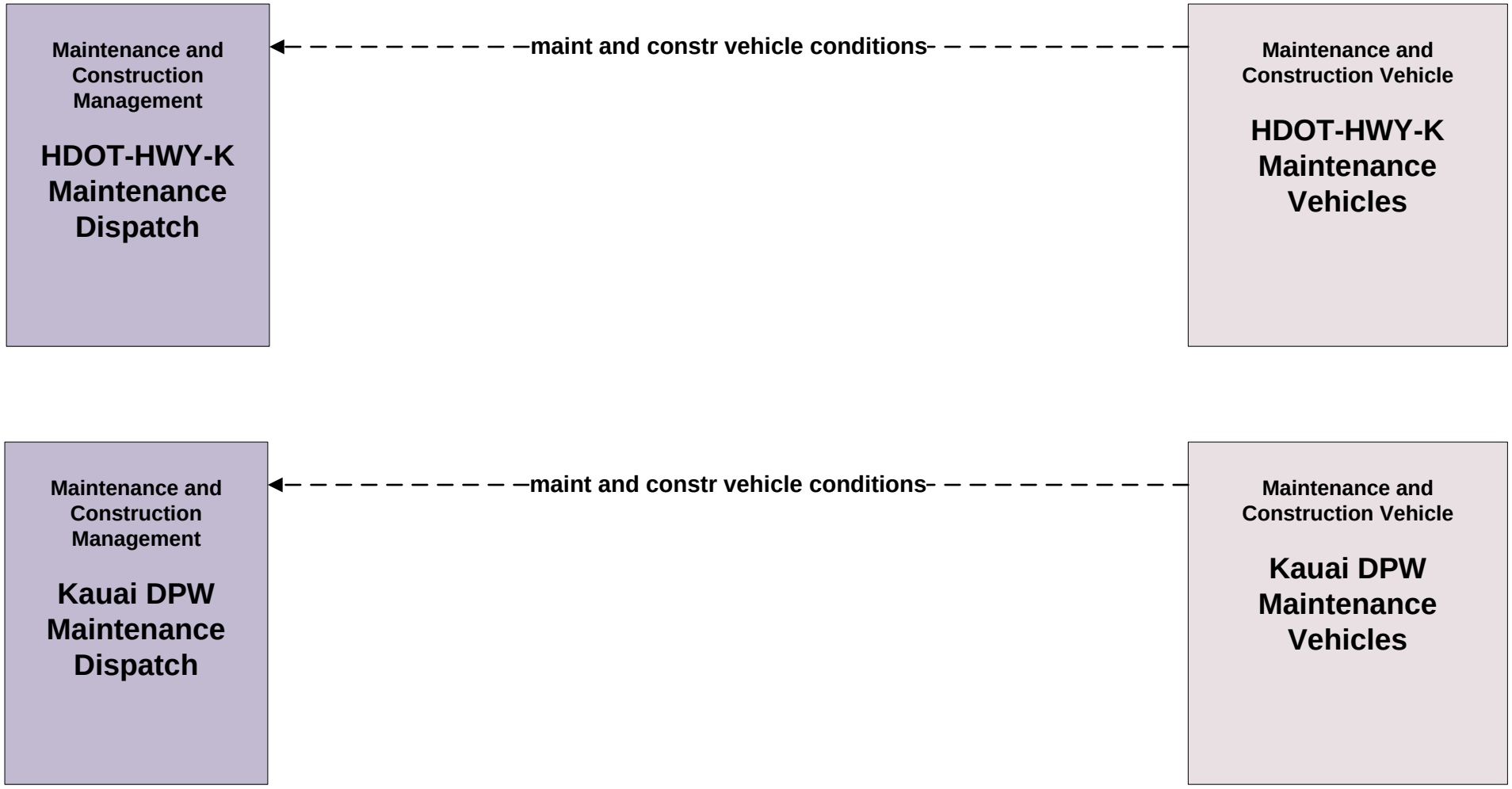
flow name_ud = user defined flow

Kauai Regional ITS Architecture

Customized Service Package Diagrams

Maintenance and Construction (MC)

MC02 - Maintenance and Construction Vehicle Maintenance
HDOT Highways Kauai District (HDOT-HWY-K)
and Kauai Department of Public Works (DPW)



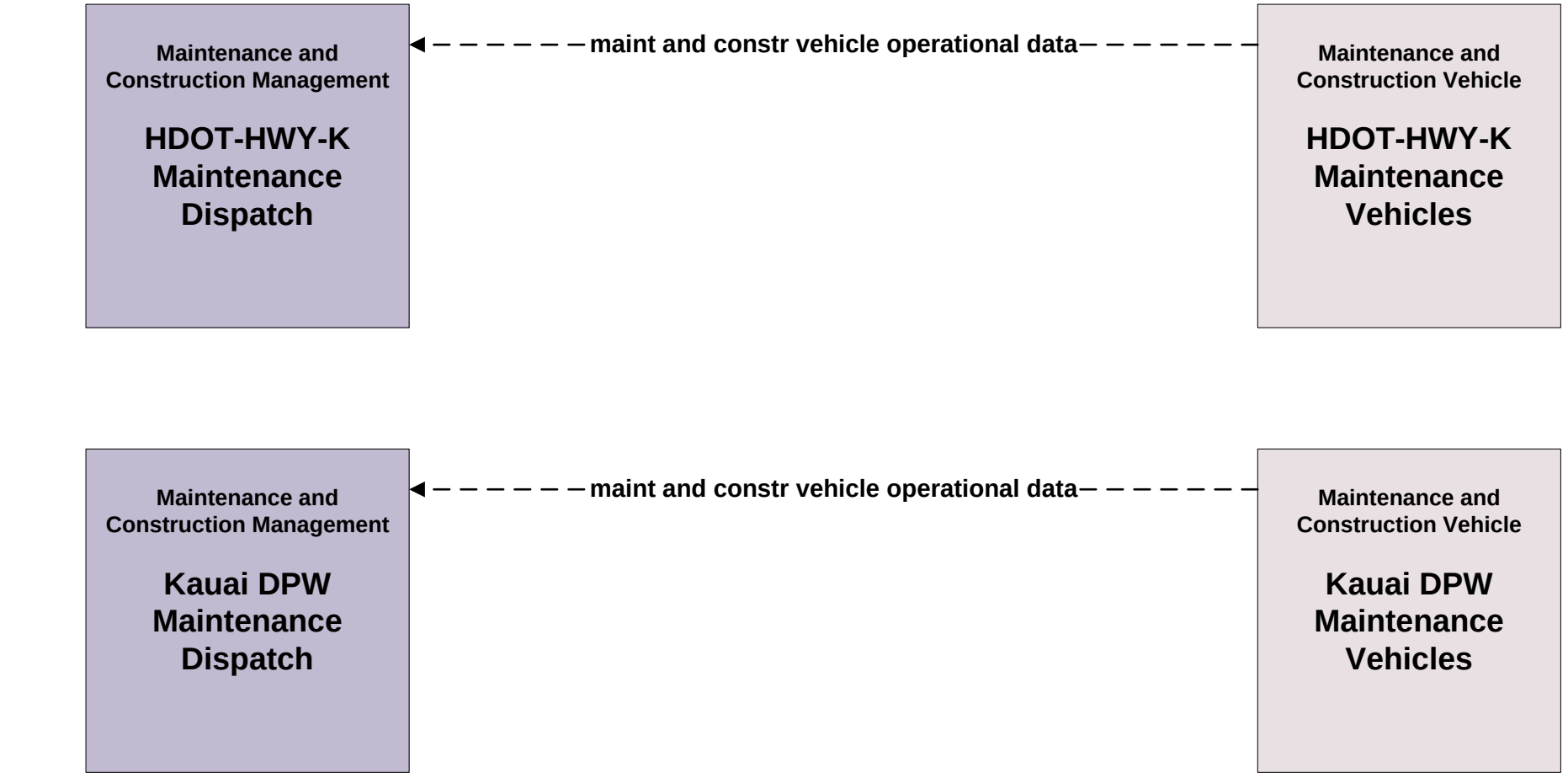
LEGEND

planned and future flow

existing flow

flow name_ud = user defined flow

MC07 - Roadway Maintenance and Construction
HDOT Highways Kauai District (HDOT-HWY-K)
and Kauai Department of Public Works (DPW)



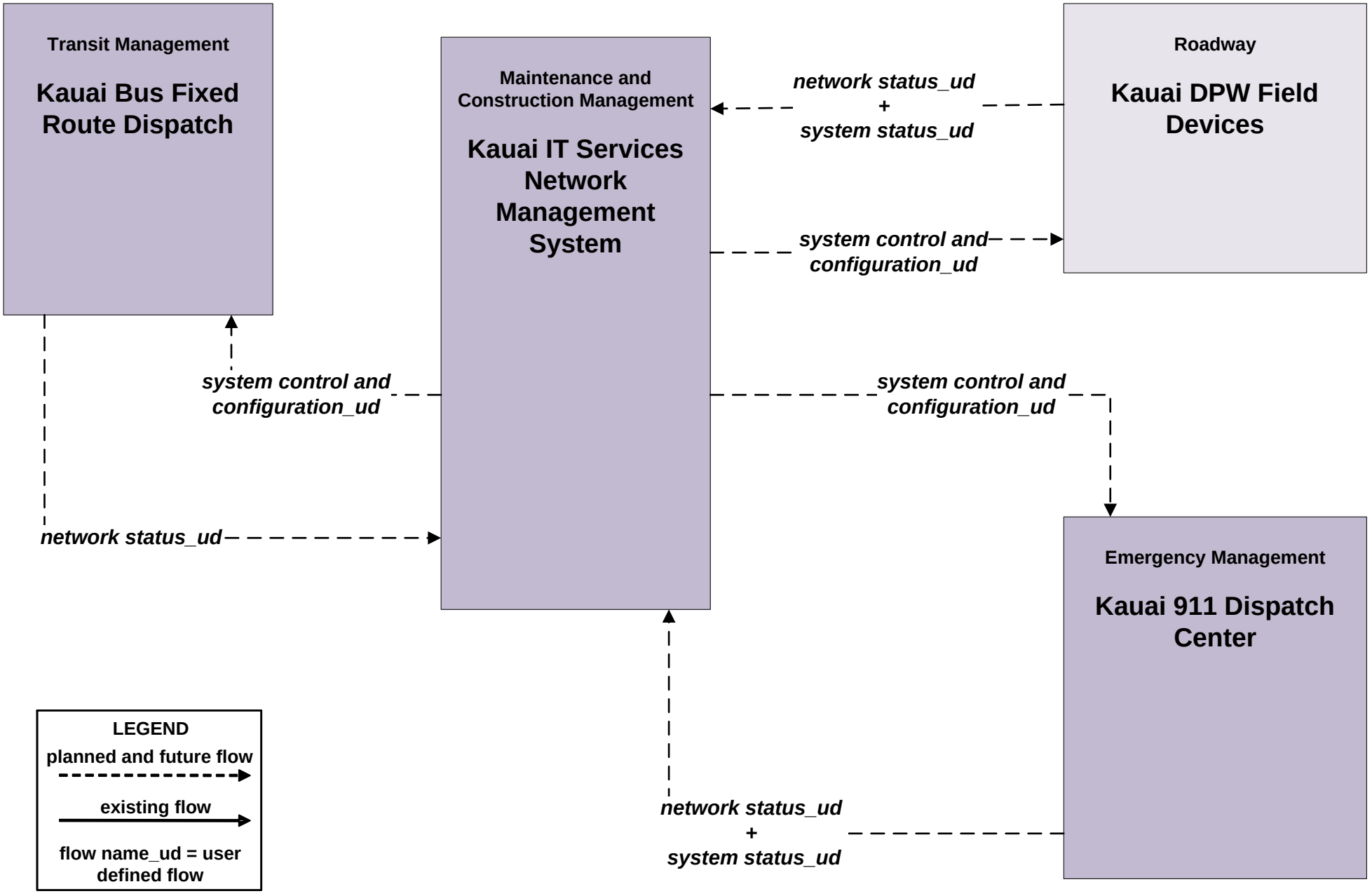
LEGEND

planned and future flow

existing flow

flow name_ud = user defined flow

MC12 - Communication and Information Systems Monitoring
Kauai Department of Finance, Information Technology

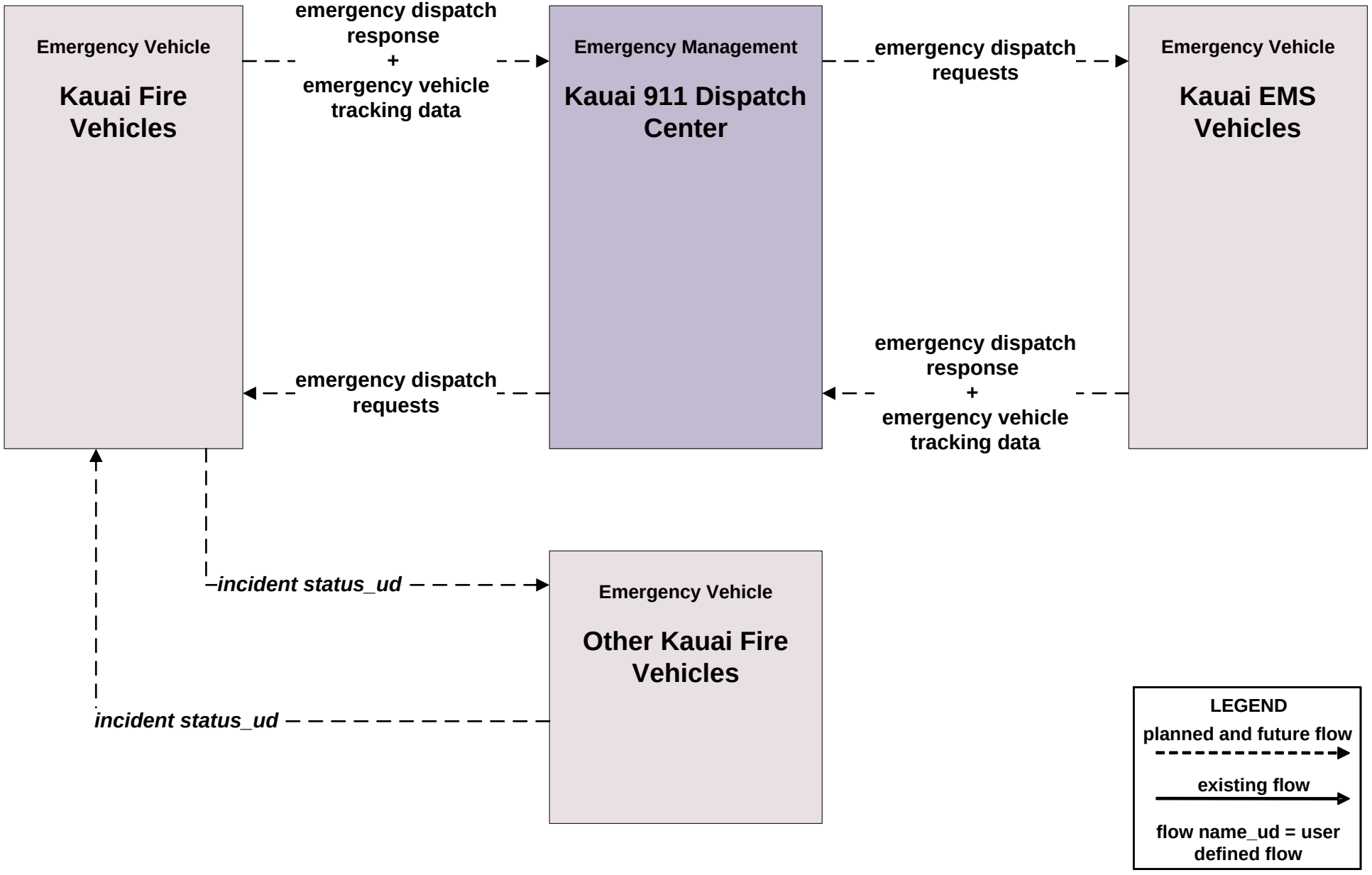


Kauai Regional ITS Architecture

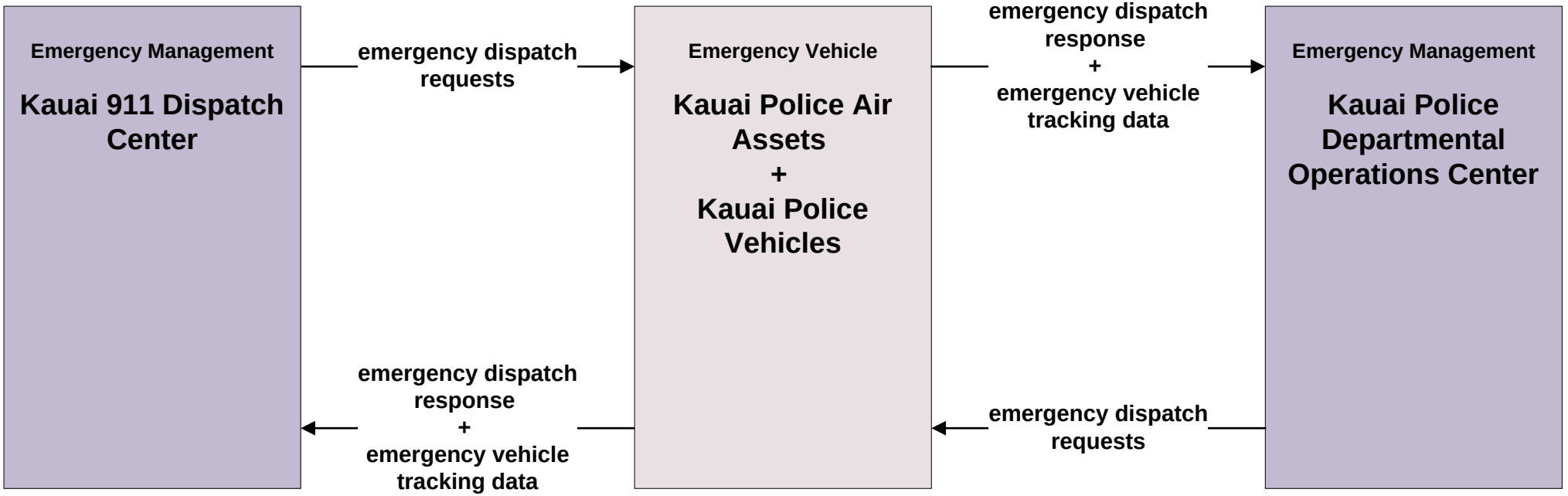
Customized Service Package Diagrams

Emergency Management (EM)

EM01 - Emergency Call-Taking and Dispatch
Kauai Fire and EMS



EM01 - Emergency Call-Taking and Dispatch
Kauai Police Department



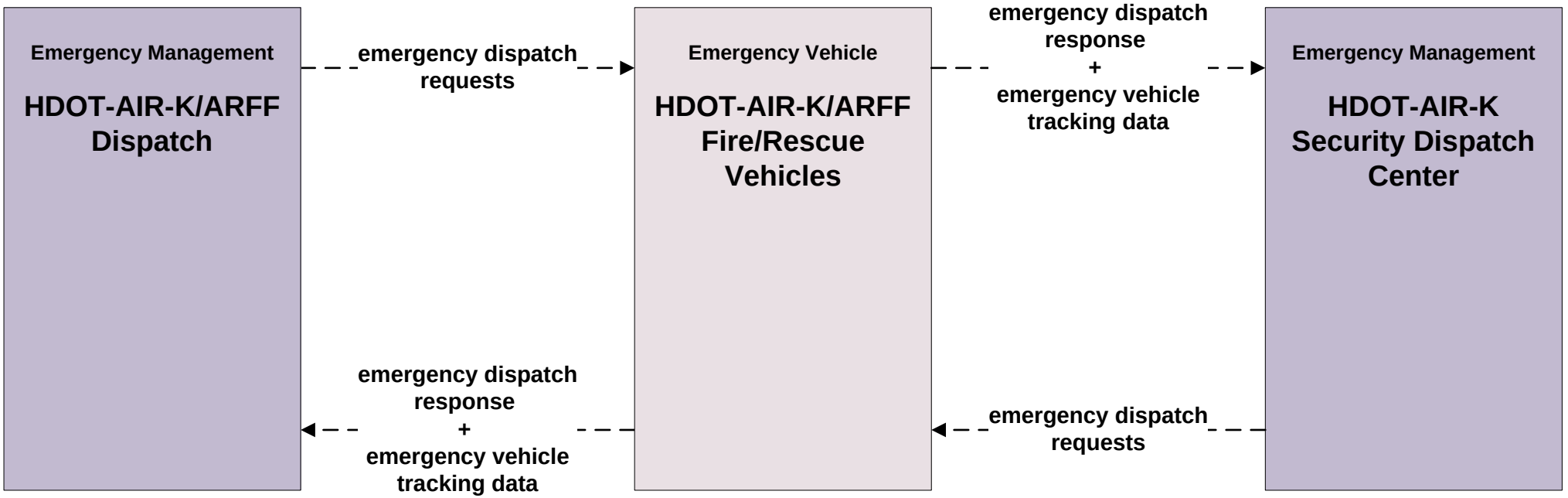
LEGEND

planned and future flow

existing flow

flow name_ud = user defined flow

EM01 - Emergency Call-Taking and Dispatch
HDOT-AIR-K/ARFF



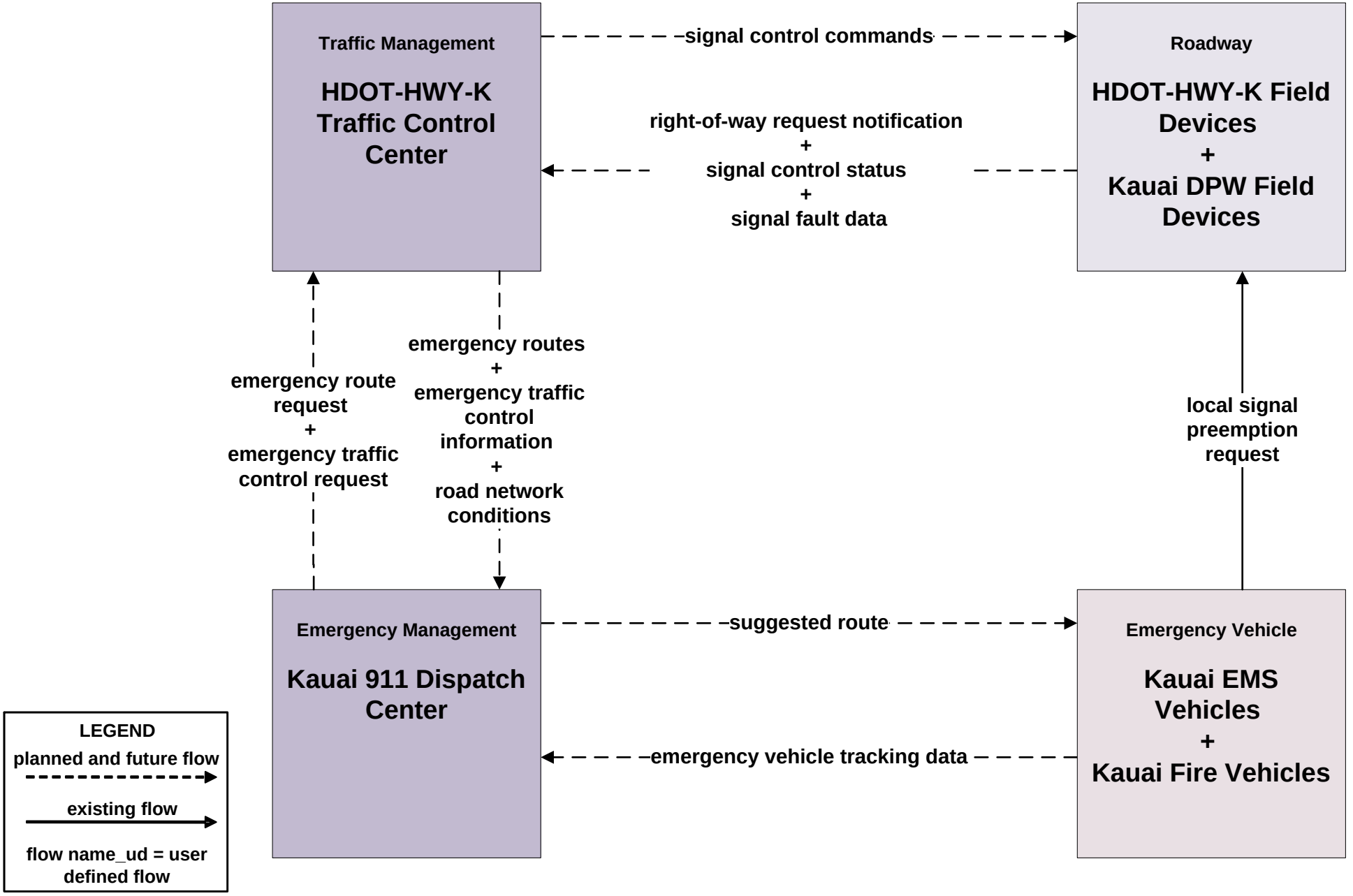
LEGEND

planned and future flow

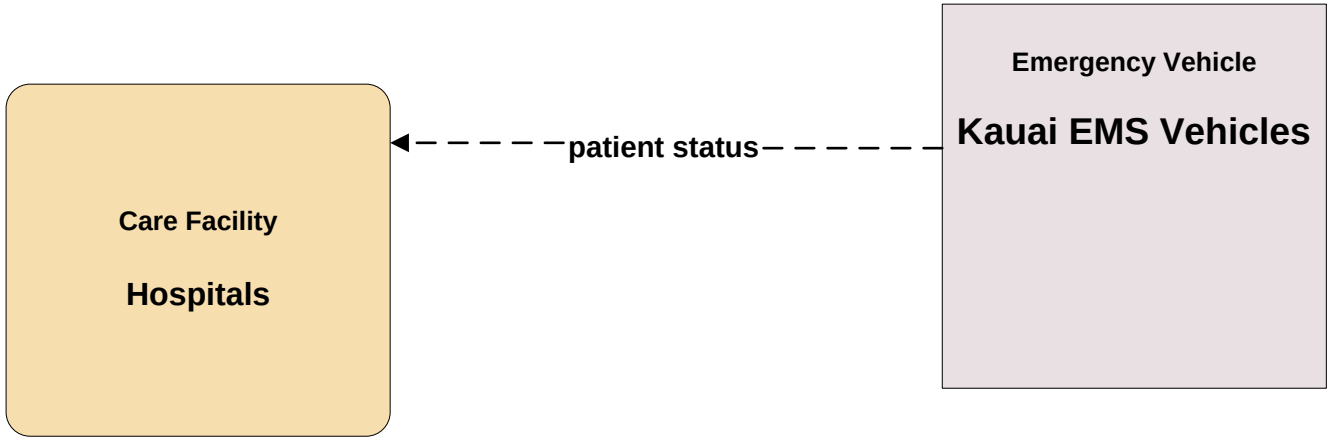
existing flow

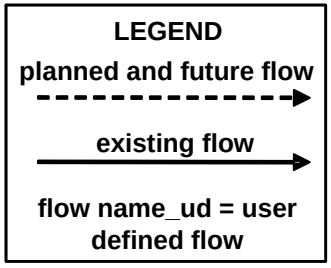
flow name_ud = user defined flow

EM02 - Emergency Routing
HDOT Highways Kauai District (HDOT-HWY-K) and Kauai Fire and EMS

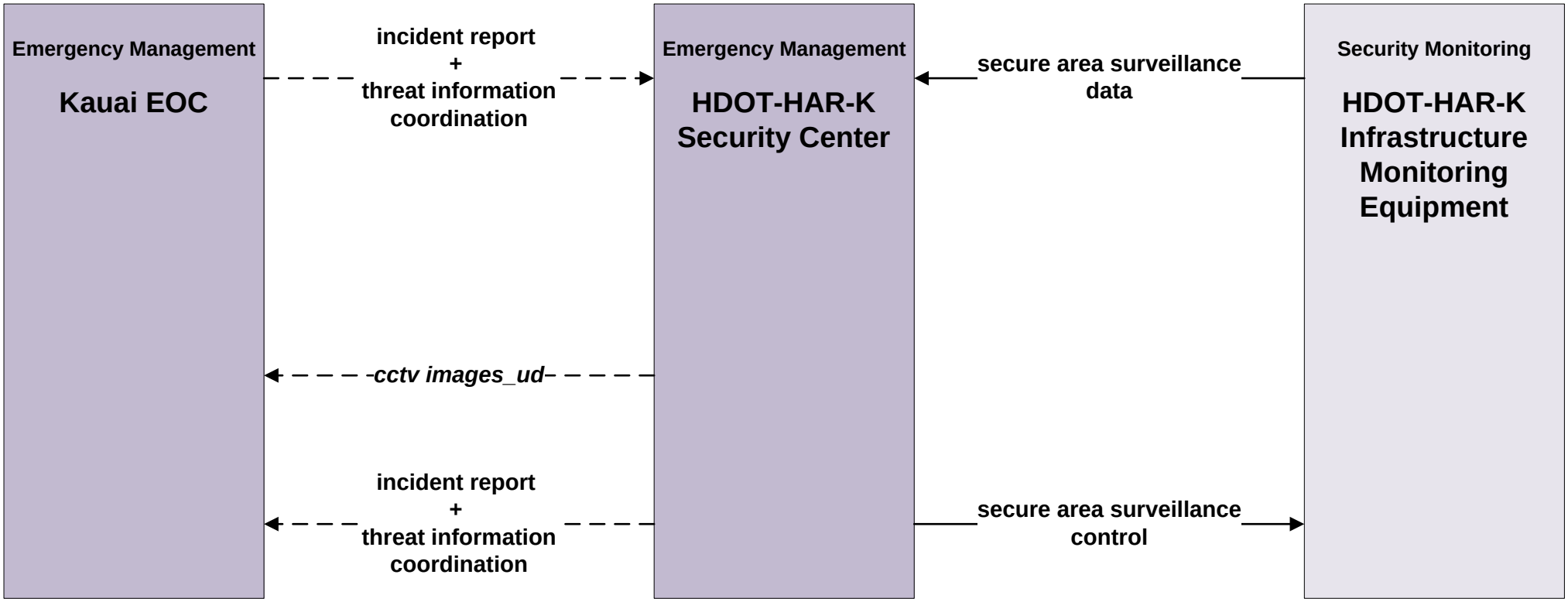


EM02 - Emergency Routing
Kauai EMS





EM05 - Transportation Infrastructure Protection
HDOT Harbors, Kauai District (HDOT-HAR-K)



LEGEND

planned and future flow

existing flow

flow name_ud = user defined flow

EM05 - Transportation Infrastructure Protection
HDOT Airports, Kauai District (HDOT-AIR-K)

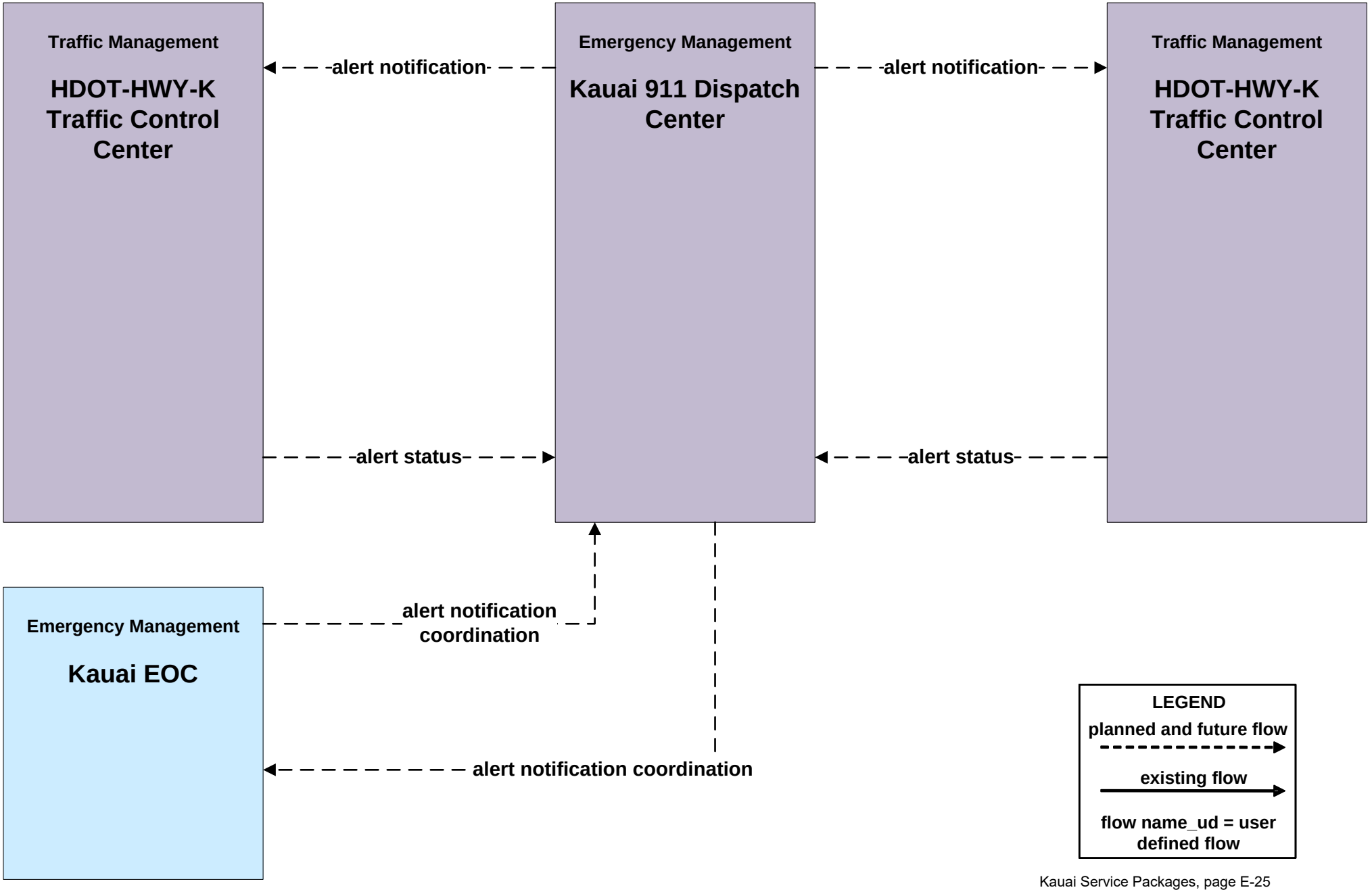
LEGEND

planned and future flow

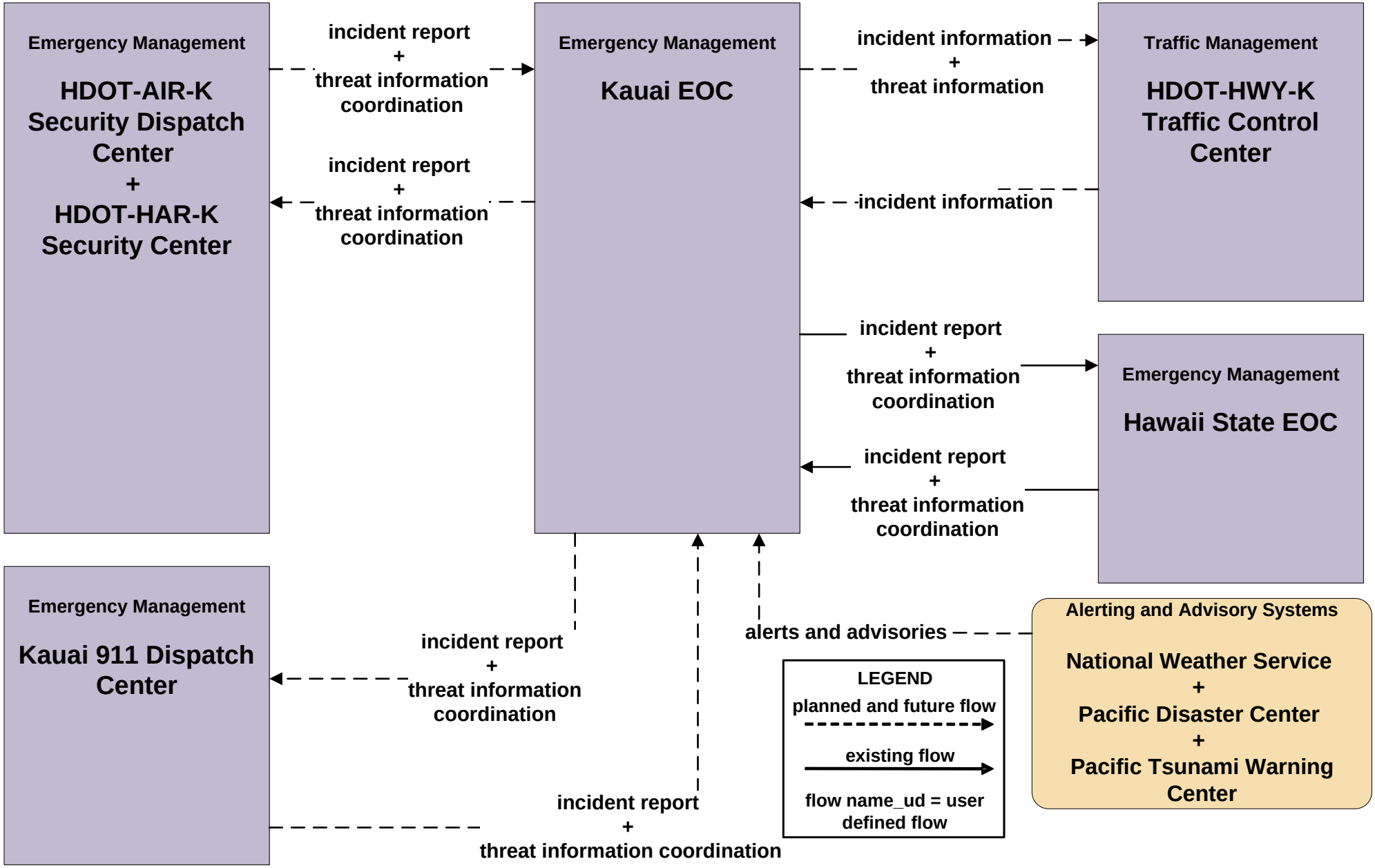
existing flow

flow name_ud = user defined flow

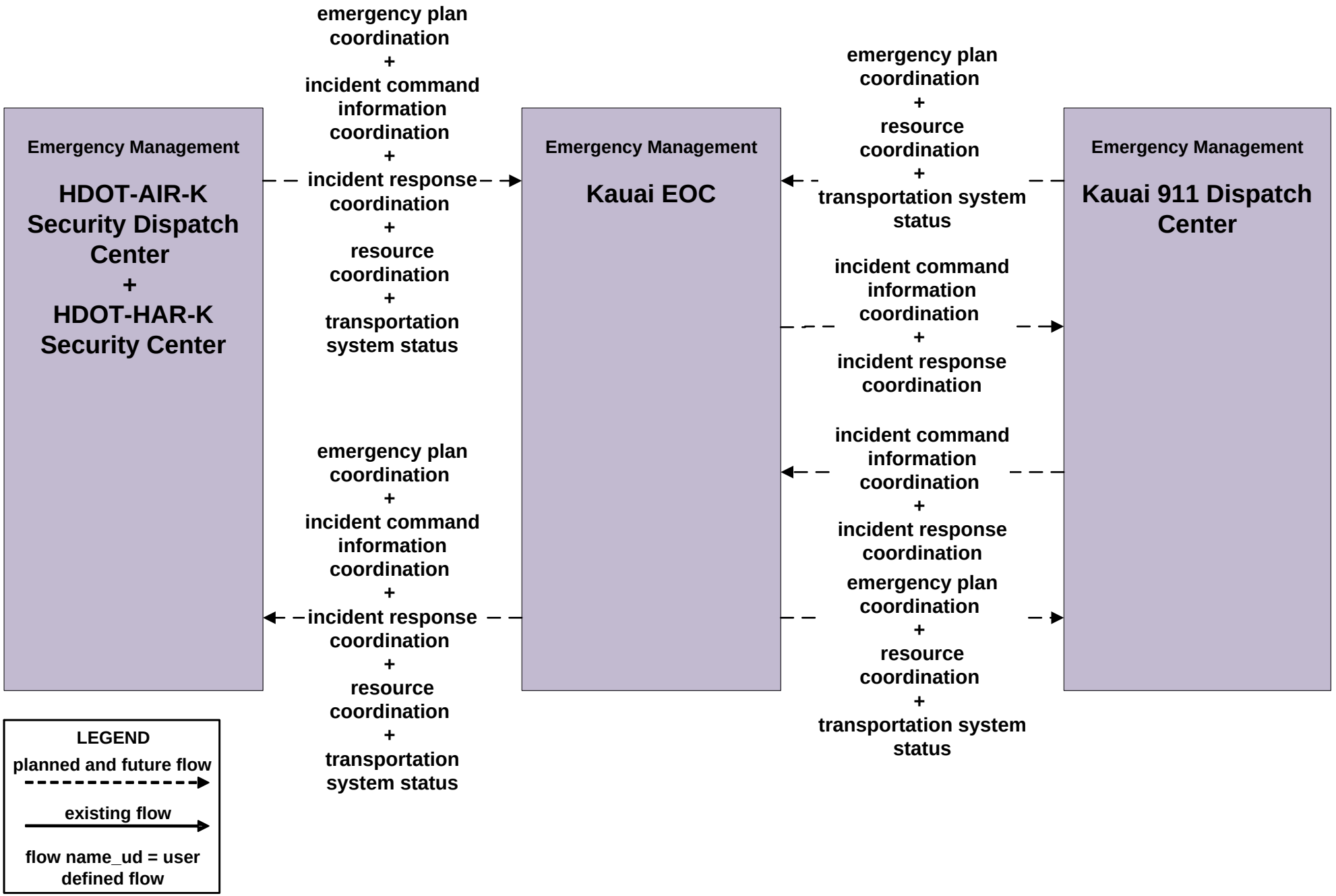
EM06 - Wide Area Alert
Maile Amber/Silver Alerts



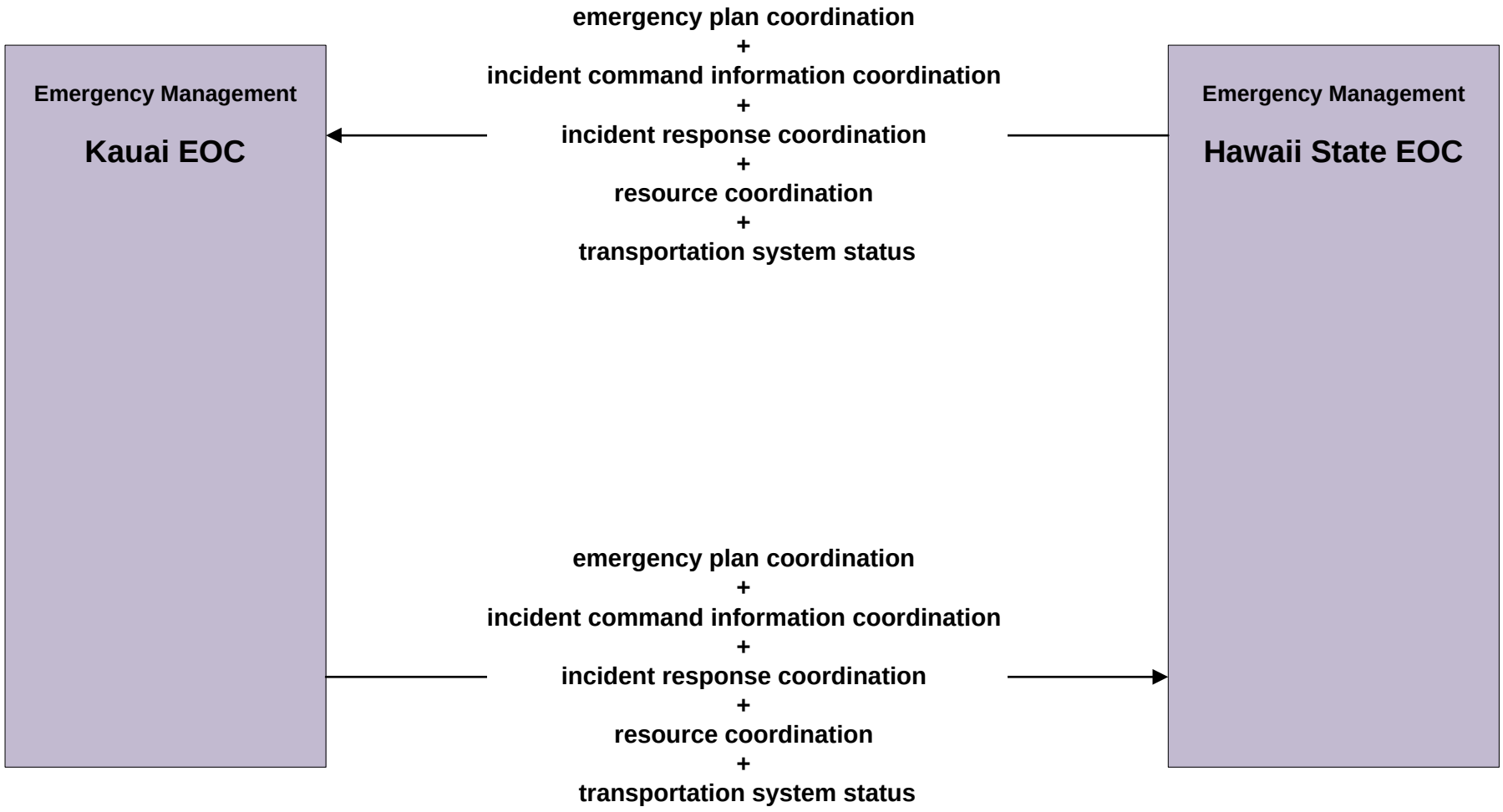
EM07 - Early Warning System
Kauai EOC



EM08 - Disaster Response and Recovery
Kauai Emergency Operations Center (1 of 3)



EM08 - Disaster Response and Recovery
Kauai Emergency Operations Center (2 of 3)



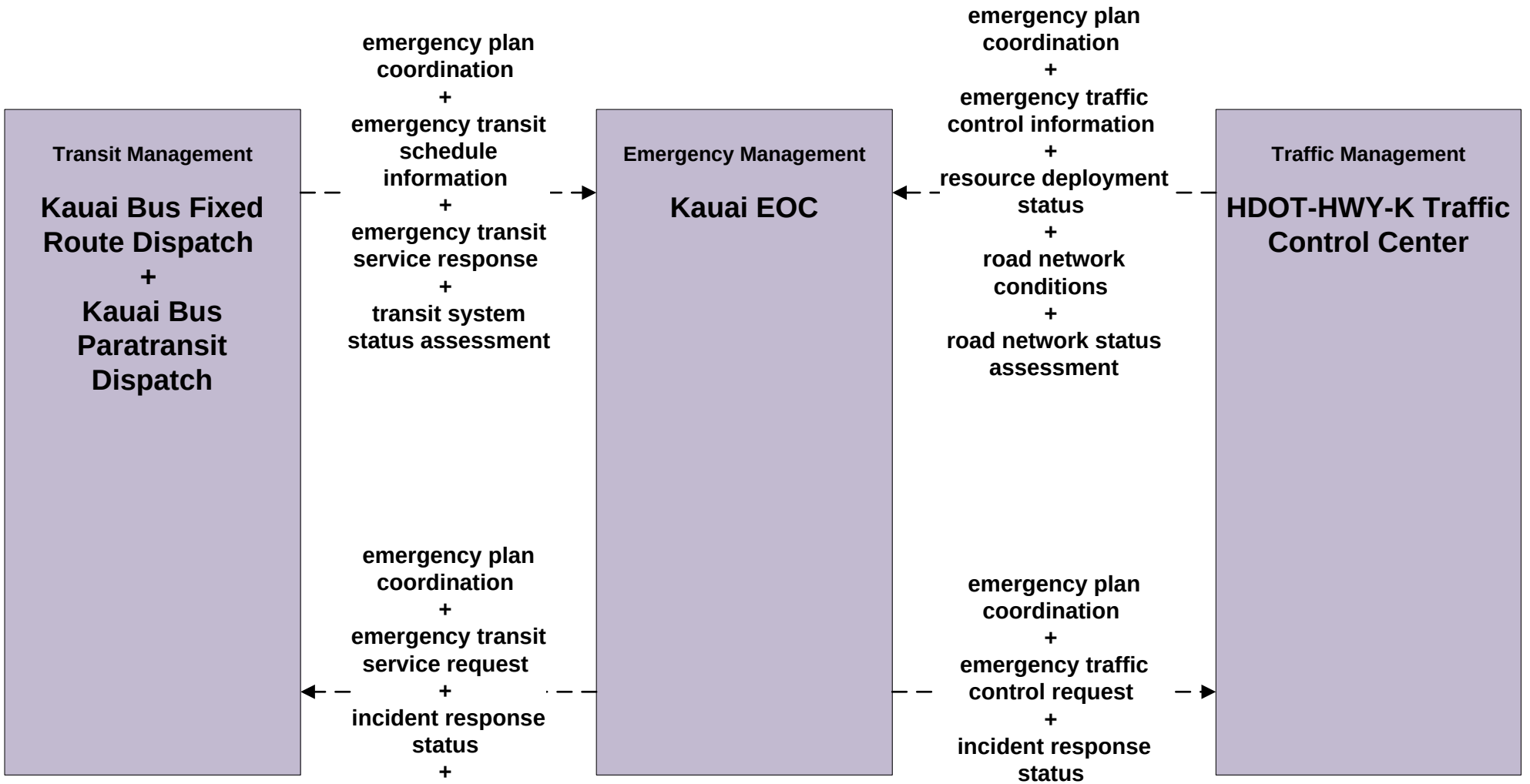
LEGEND

planned and future flow

existing flow

flow name_ud = user defined flow

EM08 - Disaster Response and Recovery
Kauai Emergency Operations Center (3 of 3)



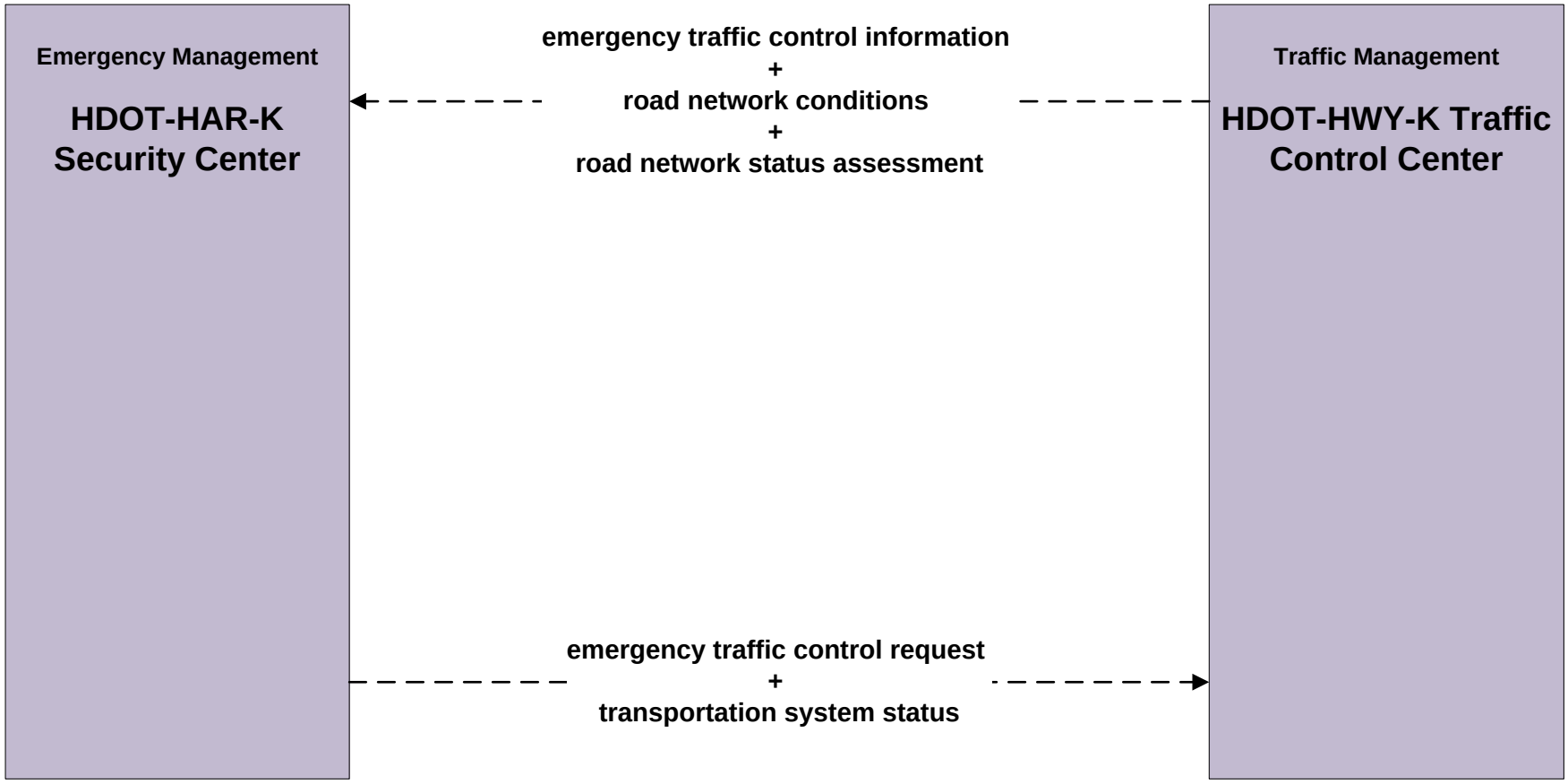
LEGEND

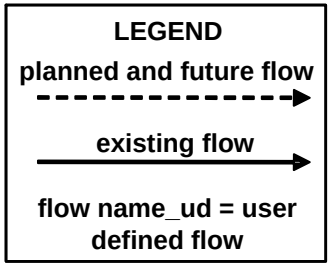
planned and future flow

existing flow

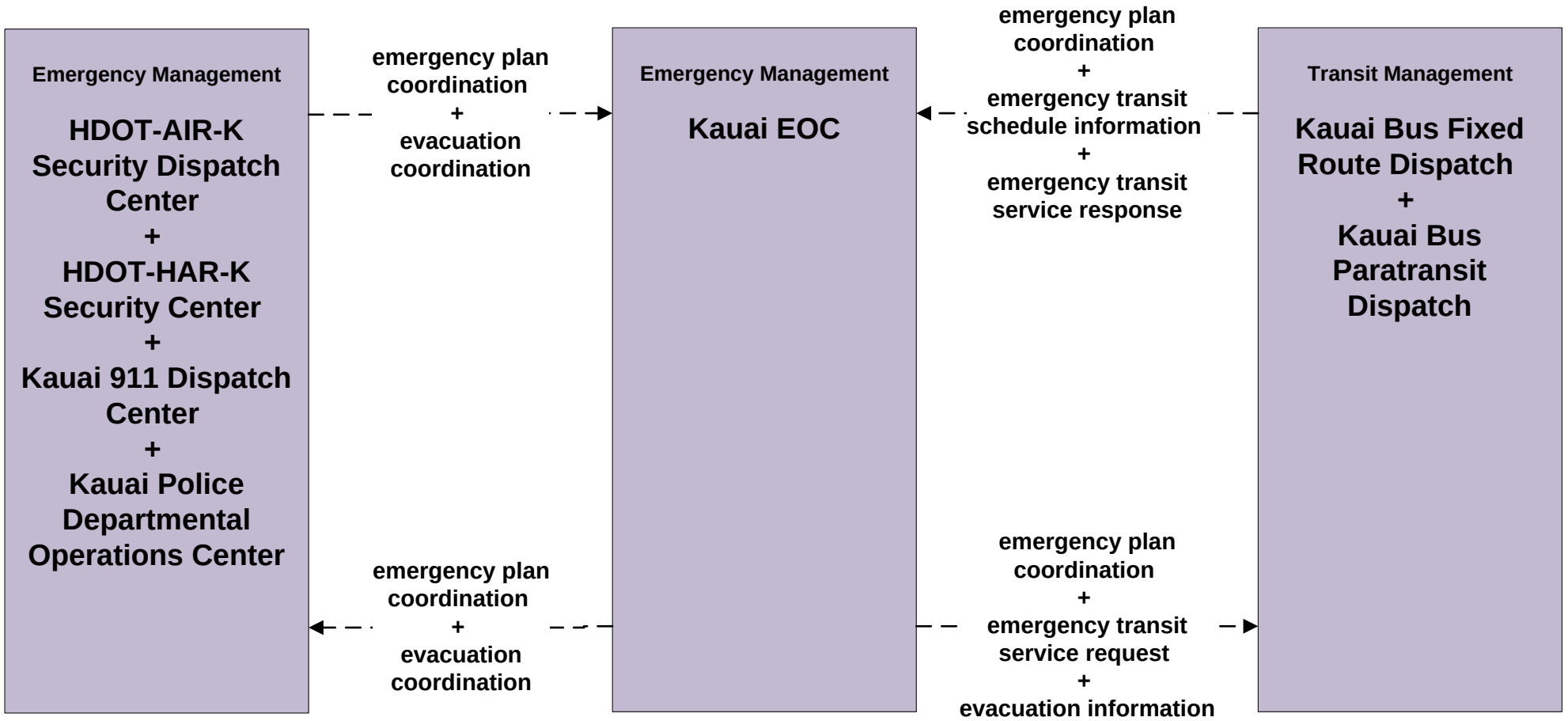
flow name_ud = user defined flow

EM08 - Disaster Response and Recovery
HDOT





EM09 - Evacuation and Reentry Management
Kauai Emergency Operations Center (1 of 2)



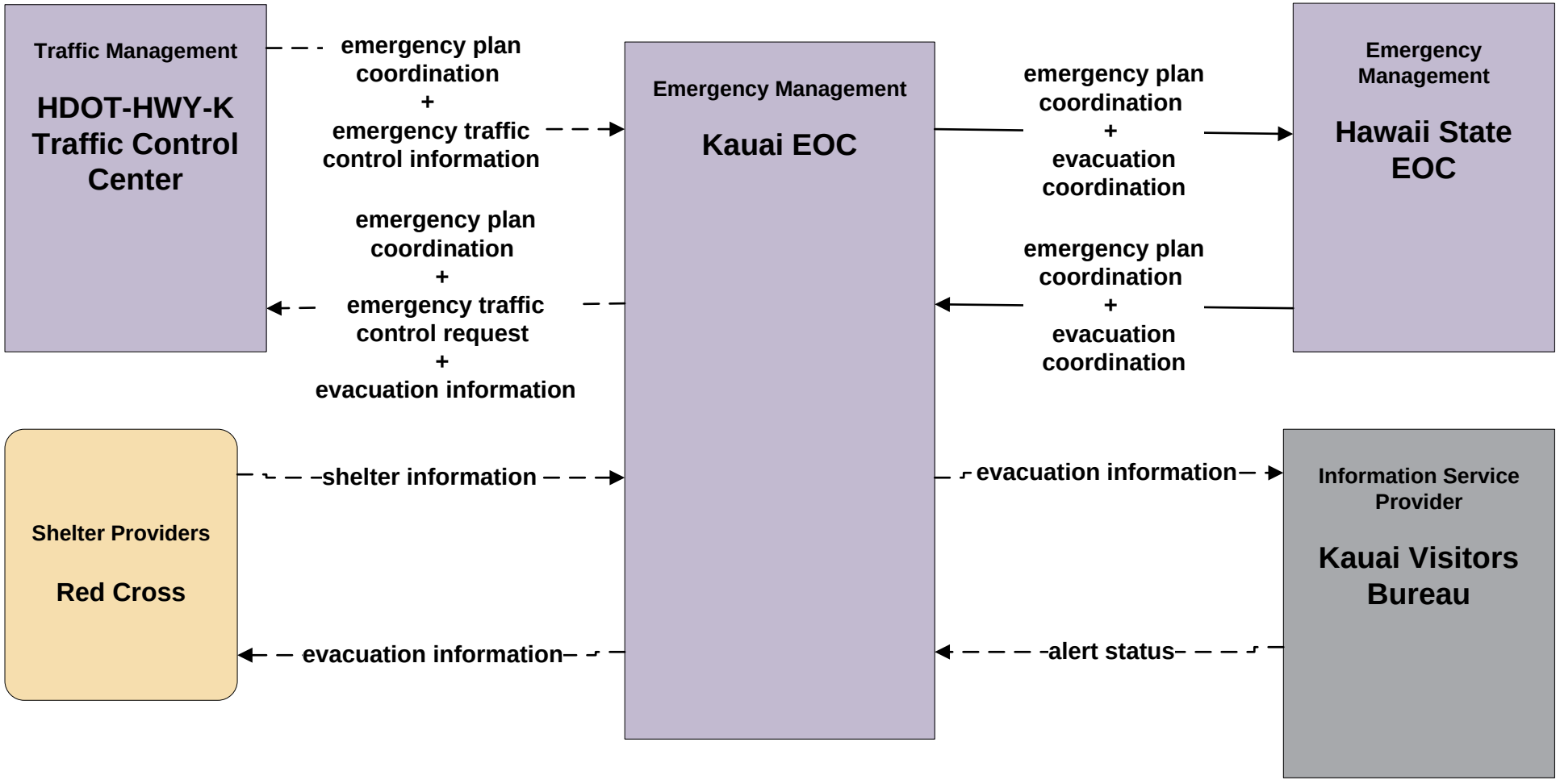
LEGEND

planned and future flow

existing flow

flow name_ud = user defined flow

EM09 - Evacuation and Reentry Management
Kauai Emergency Operations Center (2 of 2)



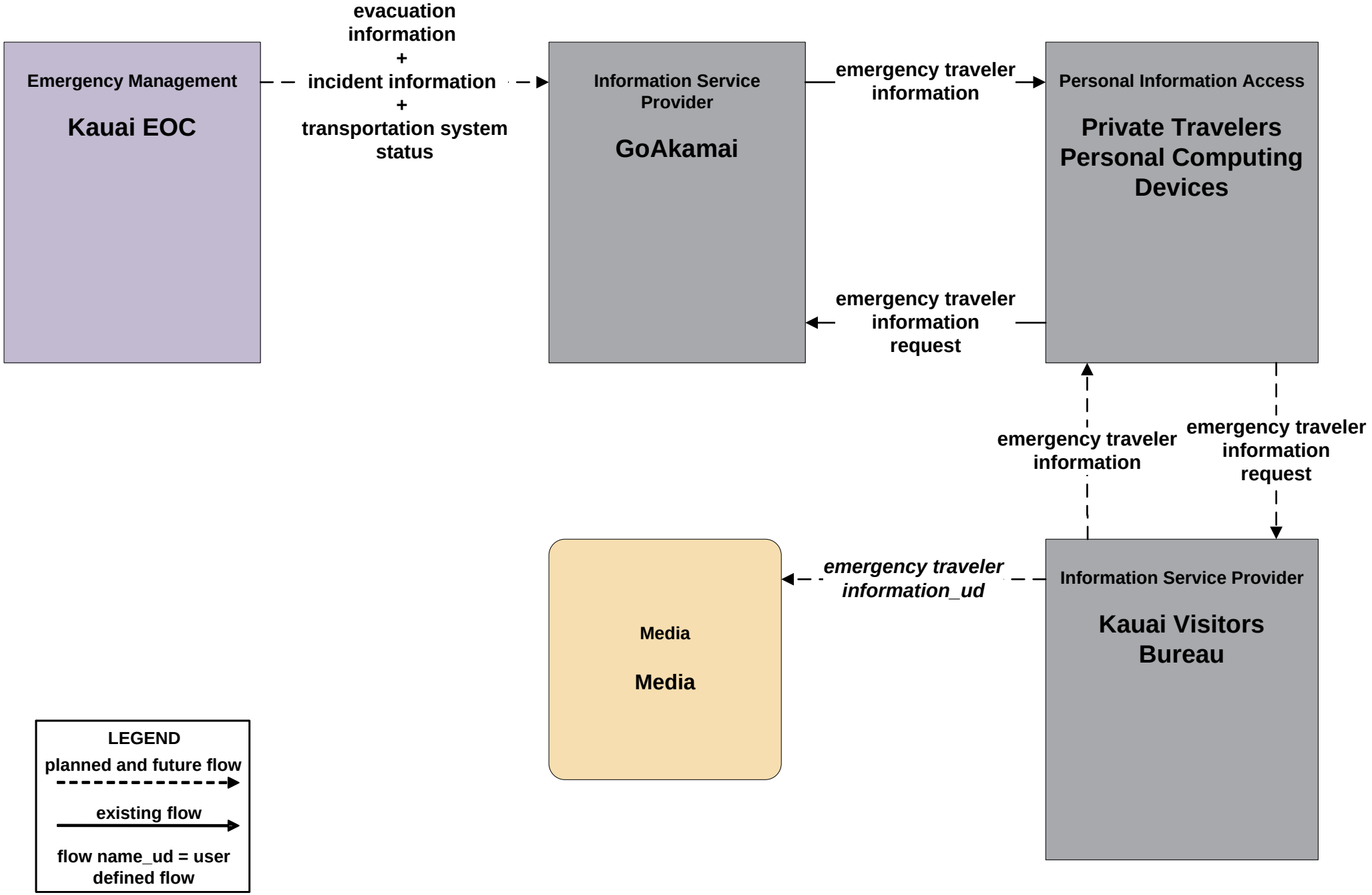
LEGEND

planned and future flow

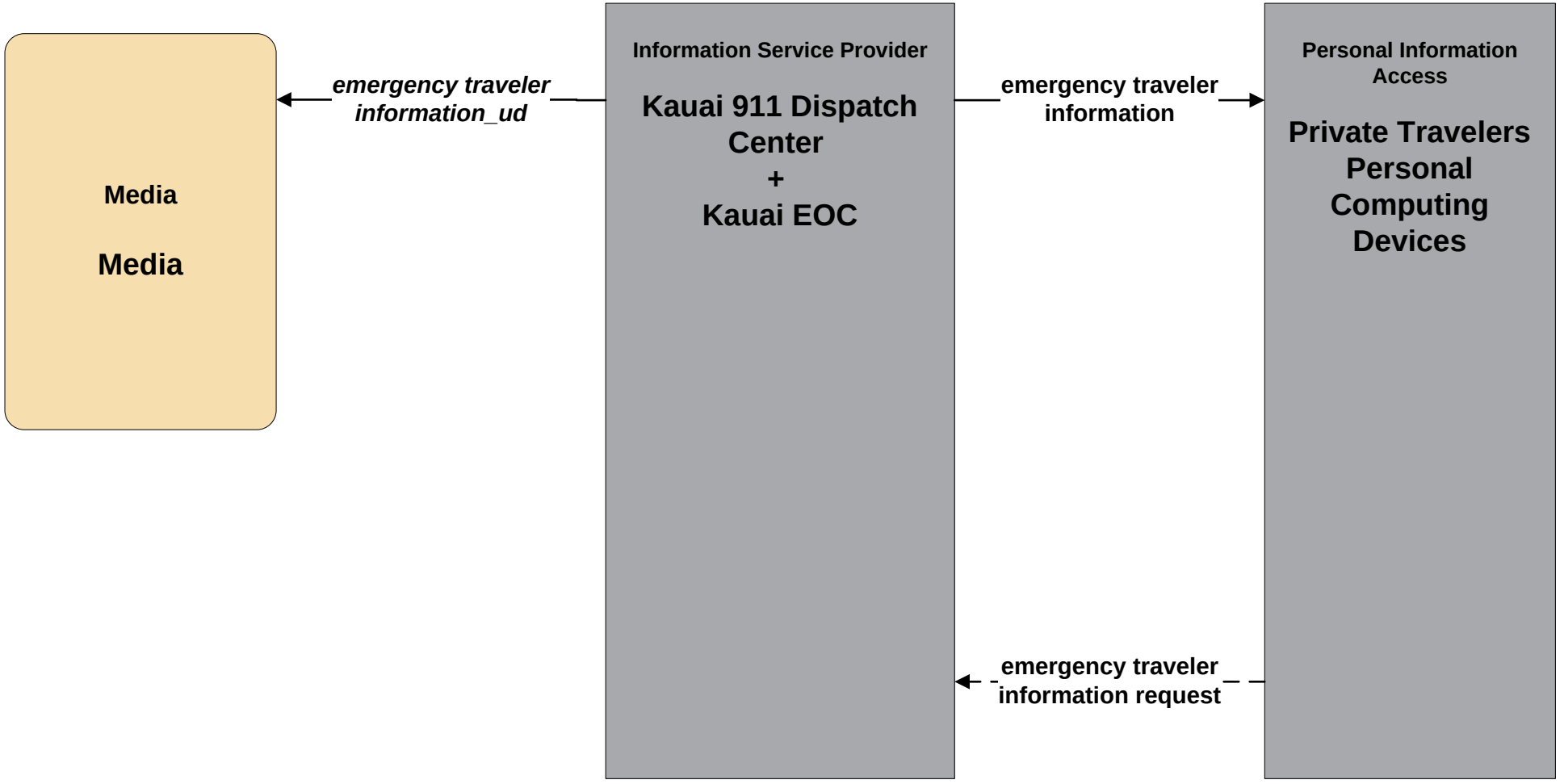
existing flow

flow name_ud = user defined flow

EM10 - Disaster Traveler Information
Kauai Emergency Operations Center (1 of 2)



EM10 - Disaster Traveler Information
Kauai Mass Public Notification System (2 of 2)



LEGEND

planned and future flow

existing flow

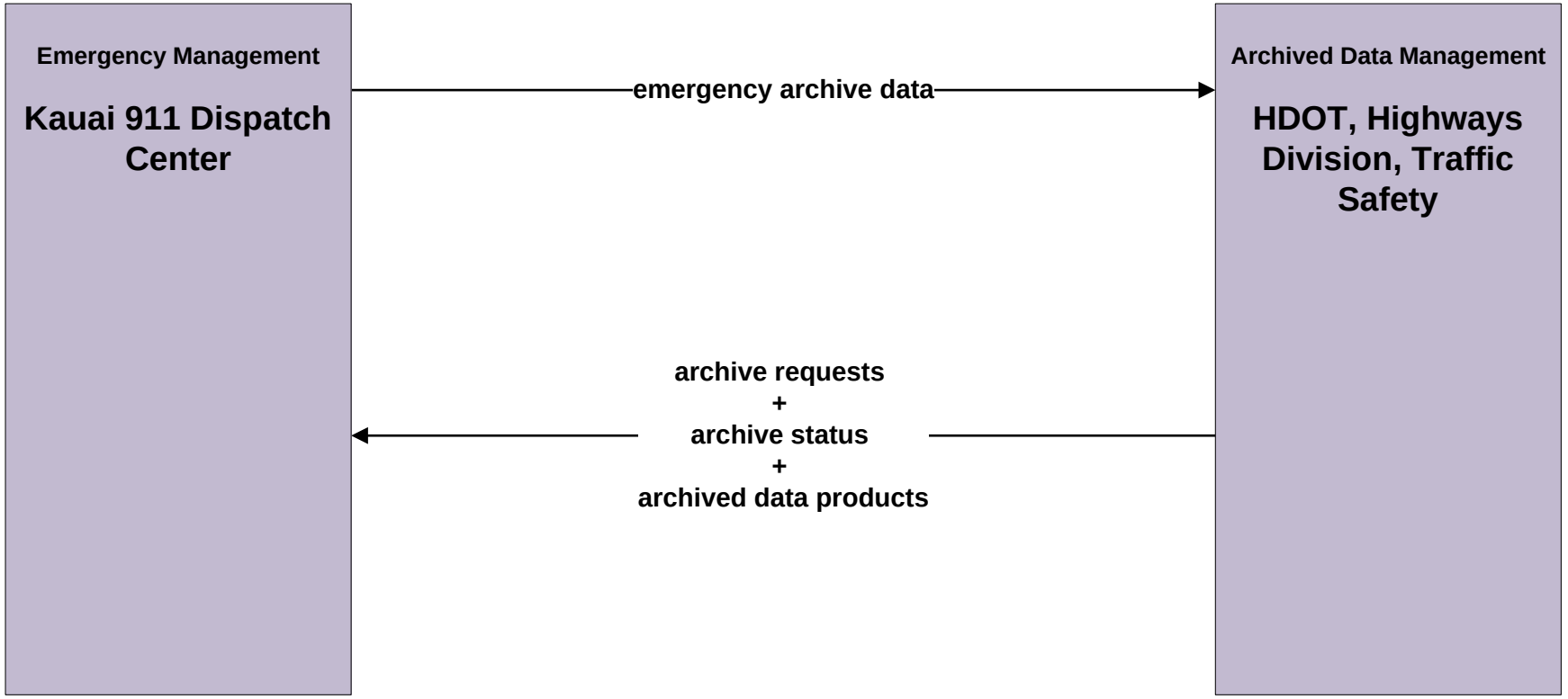
flow name_ud = user defined flow

Kauai Regional ITS Architecture

Customized Service Package Diagrams

Archived Data (AD)

AD2 - ITS Data Warehouse
Kauai Motor Vehicle Crash Data
and HDOT Highway Traffic Safety (HDOT-HWY-TS)



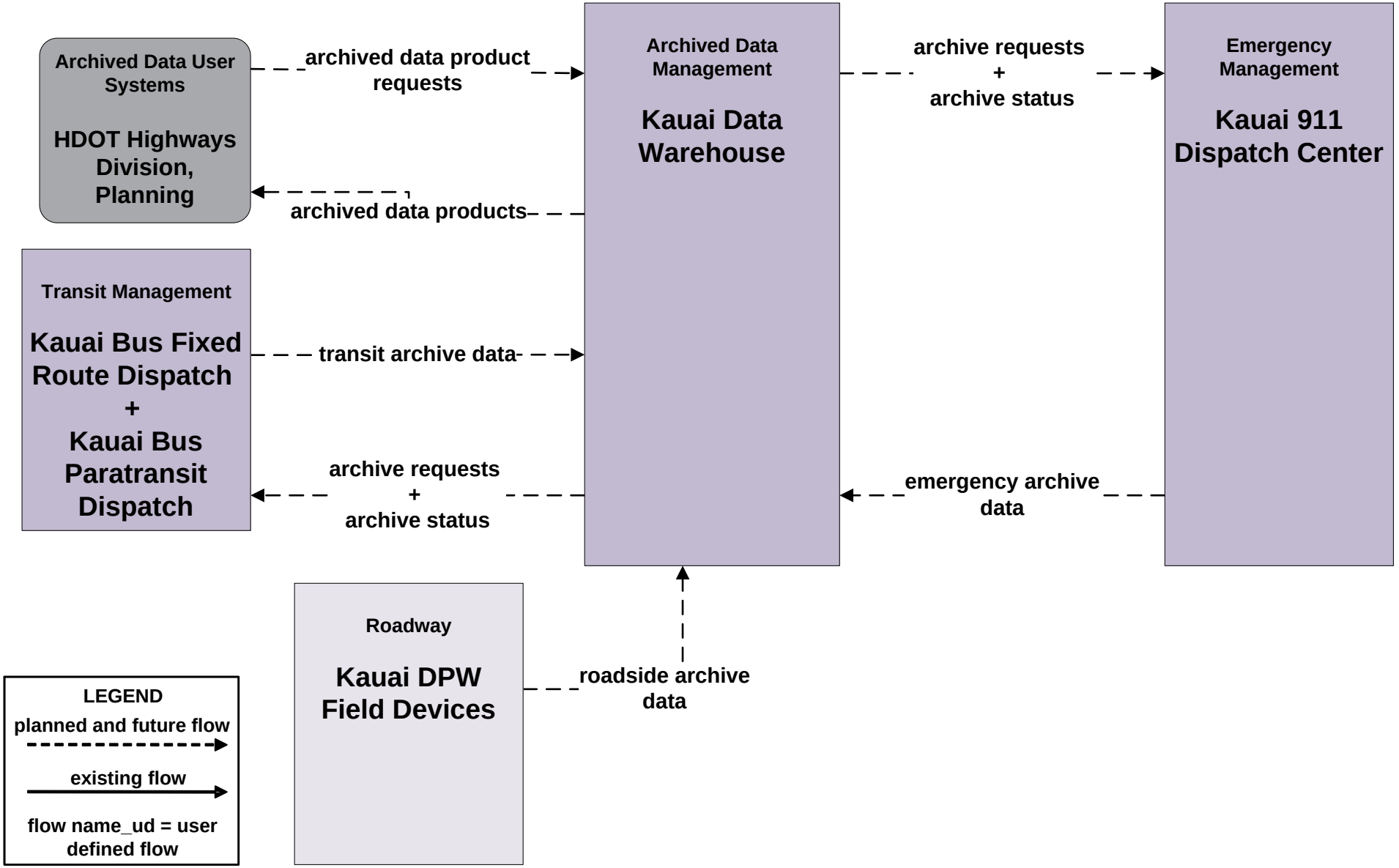
LEGEND

planned and future flow

existing flow

flow name_ud = user defined flow

AD2 - ITS Data Warehouse
Kauai Data Archive

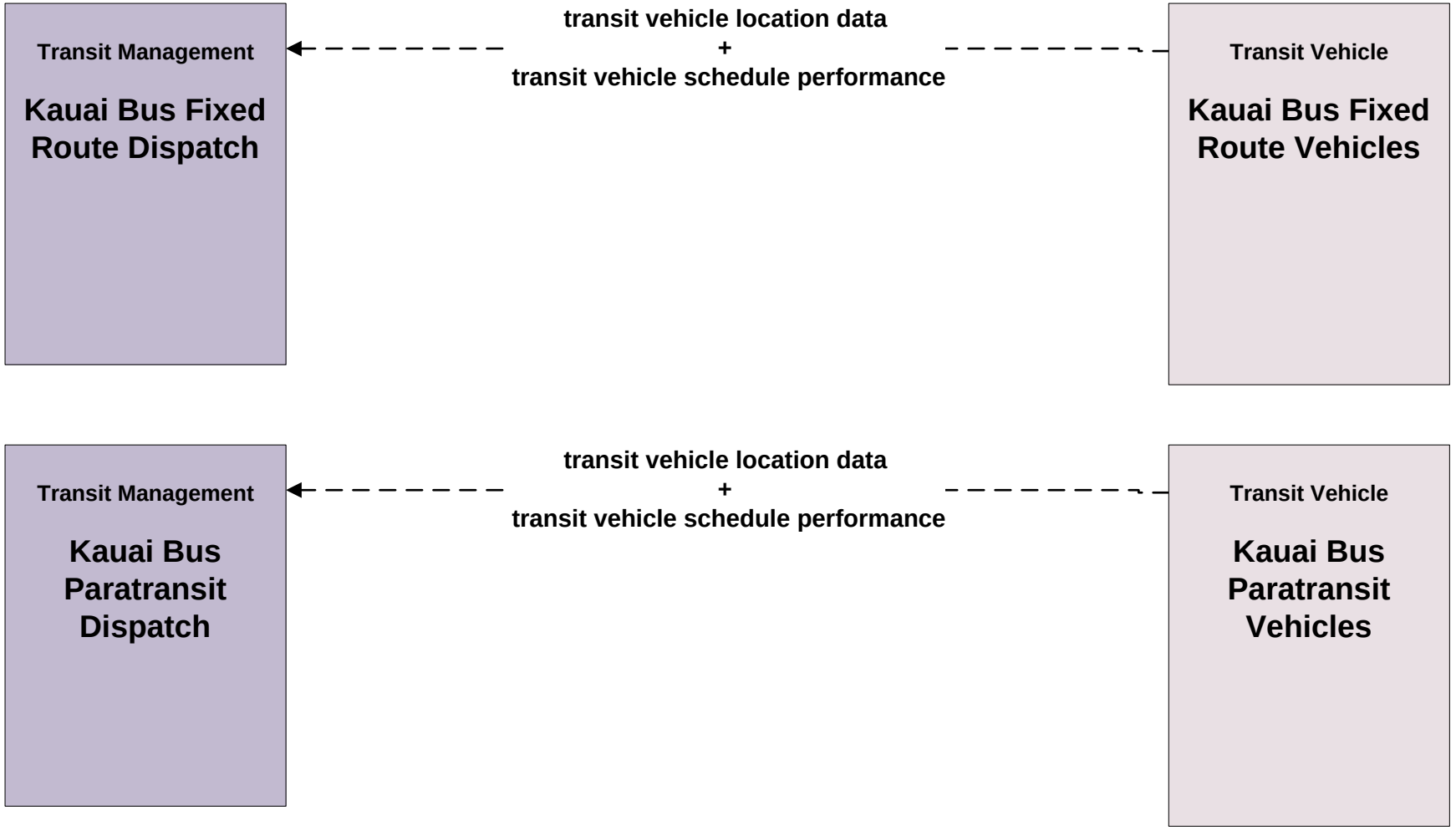


Kauai Regional ITS Architecture

Customized Service Package Diagrams

Advanced Public Transportation Systems (APTS)

APTS01 - Transit Vehicle Tracking
Kauai Bus



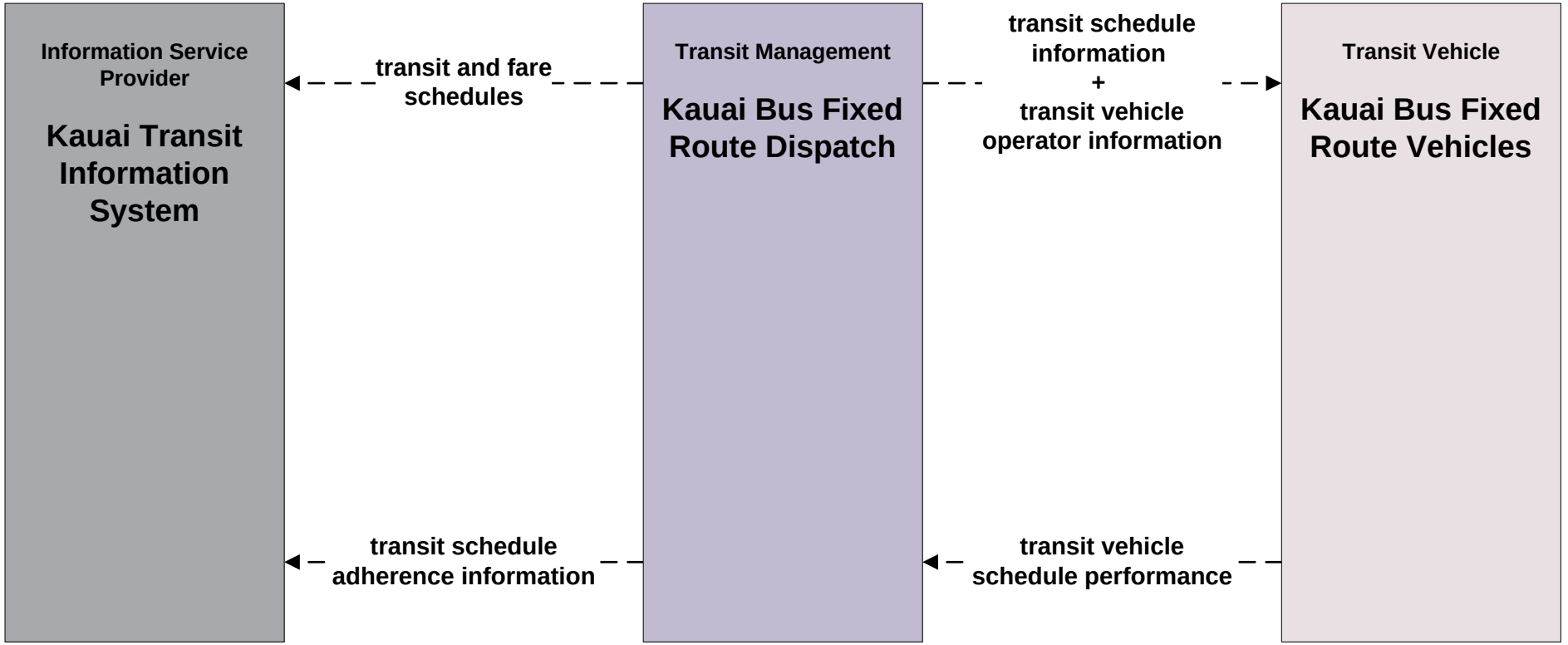
LEGEND

planned and future flow

existing flow

flow name_ud = user defined flow

APTS02 - Transit Fixed-Route Operations
Kauai Bus



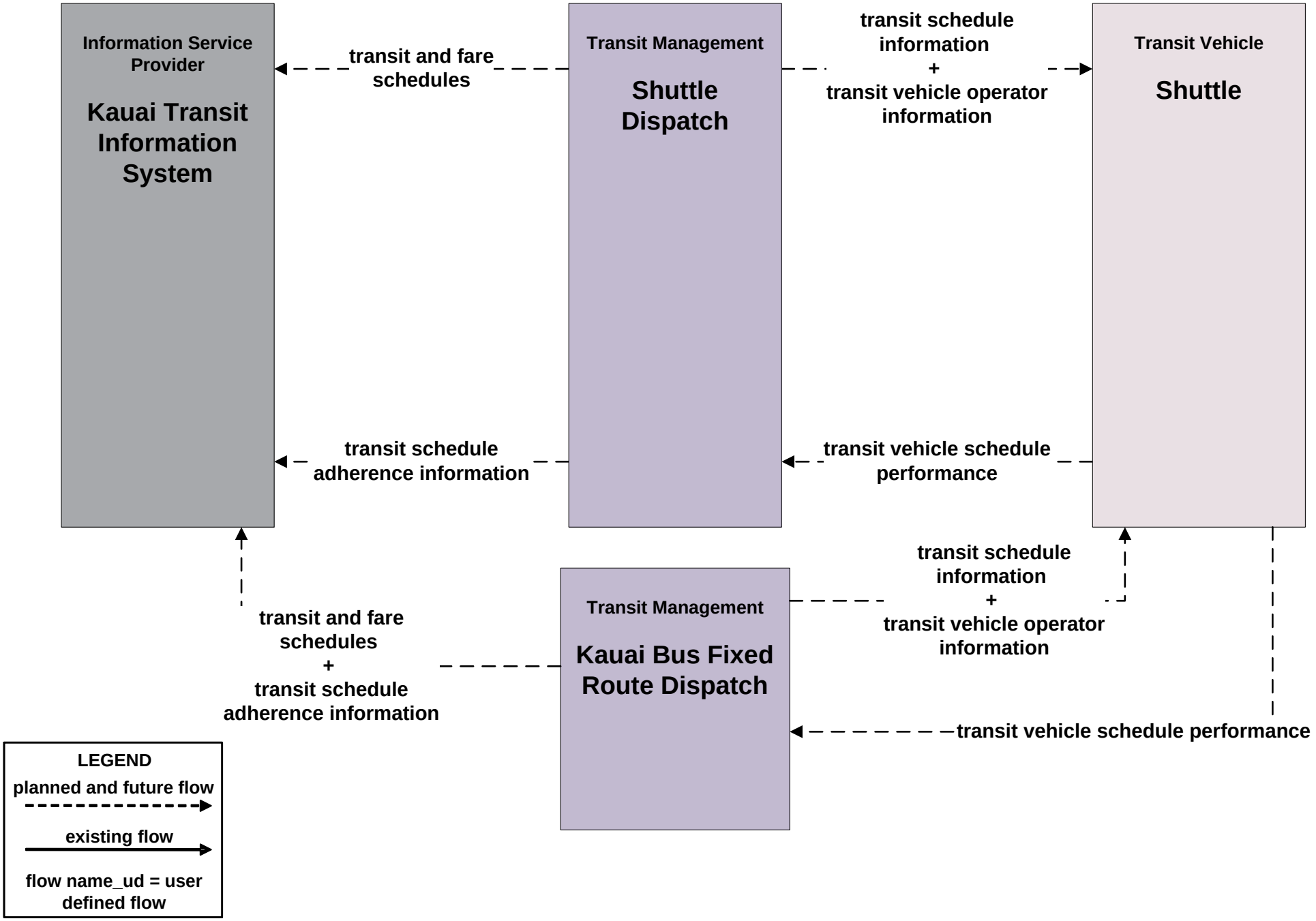
LEGEND

planned and future flow

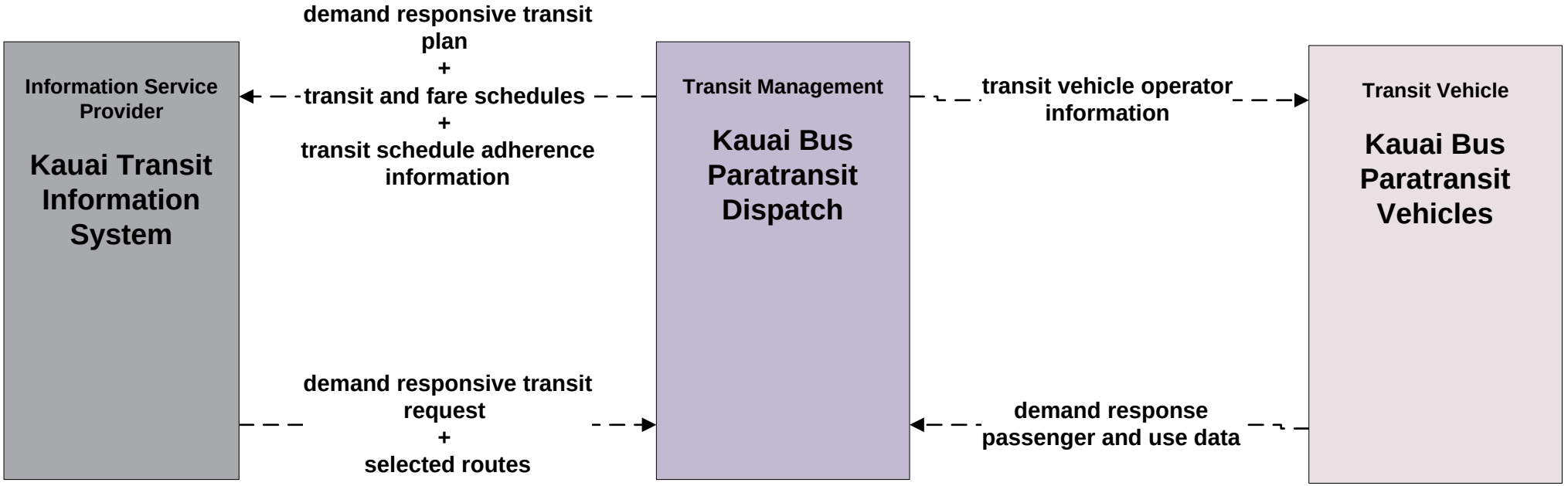
existing flow

flow name_ud = user defined flow

APTS02 - Transit Fixed-Route Operations
Kauai Bus



APTS03 - Demand Response Transit Operations
Kauai Bus



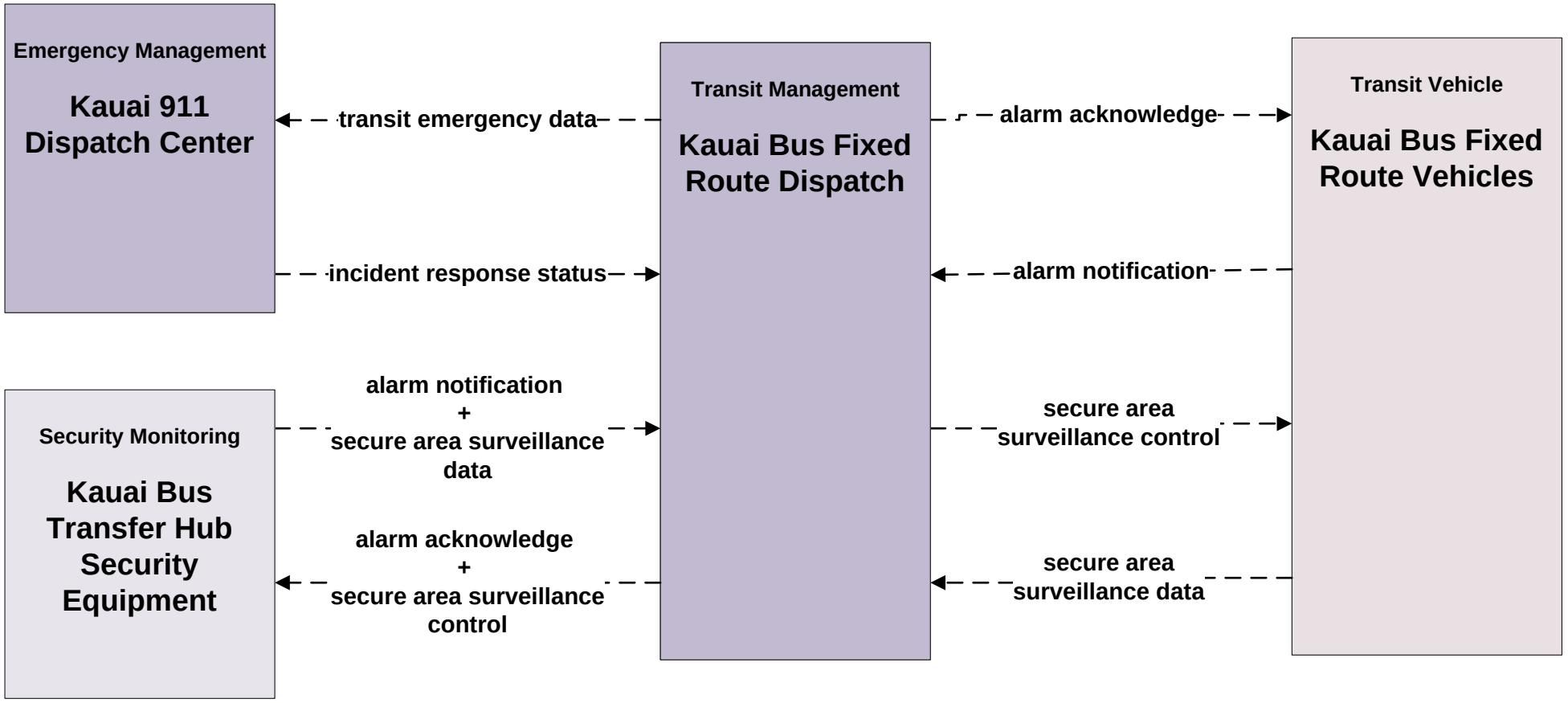
LEGEND

planned and future flow

existing flow

flow name_ud = user defined flow

APTS05 - Transit Security
Kauai Bus



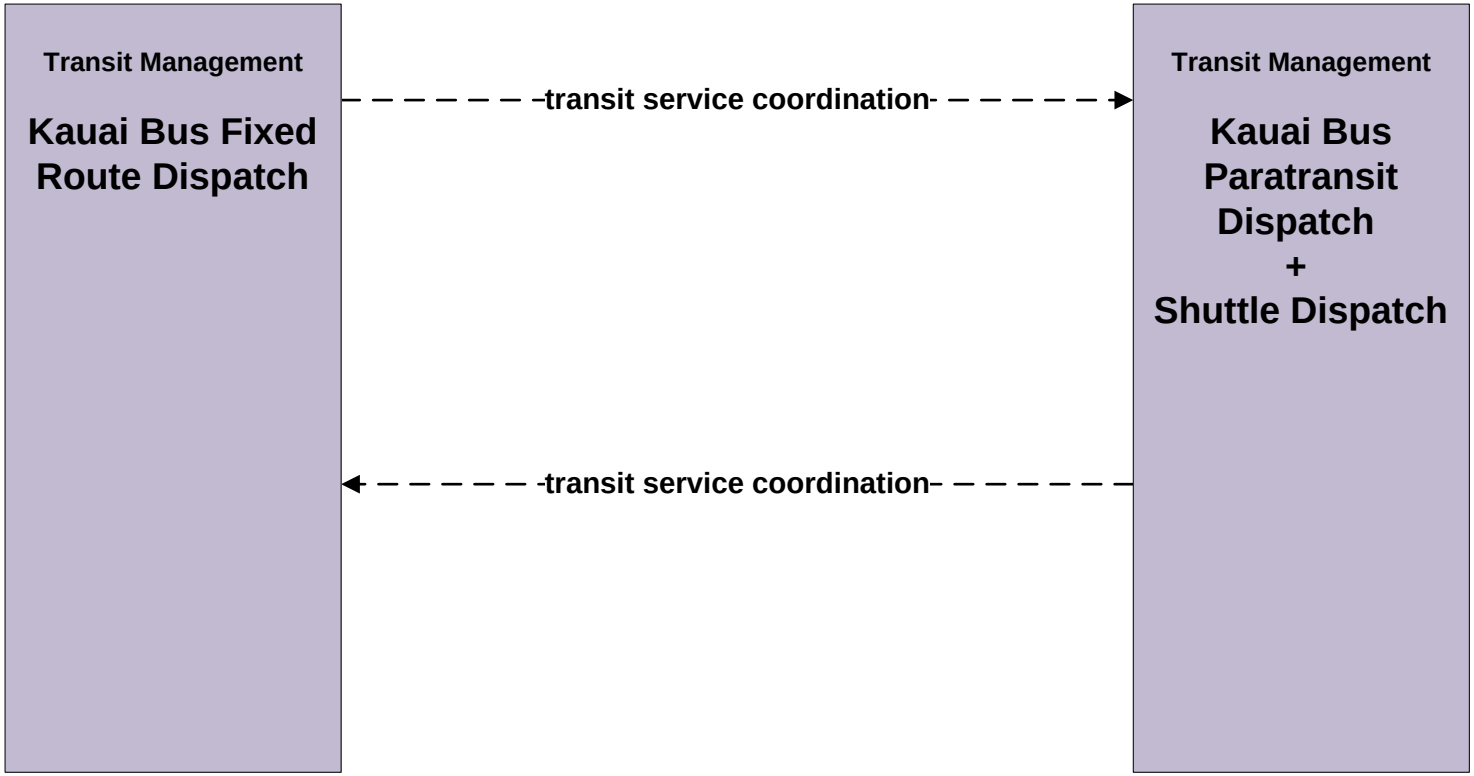
LEGEND

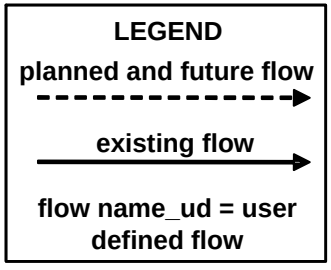
planned and future flow

existing flow

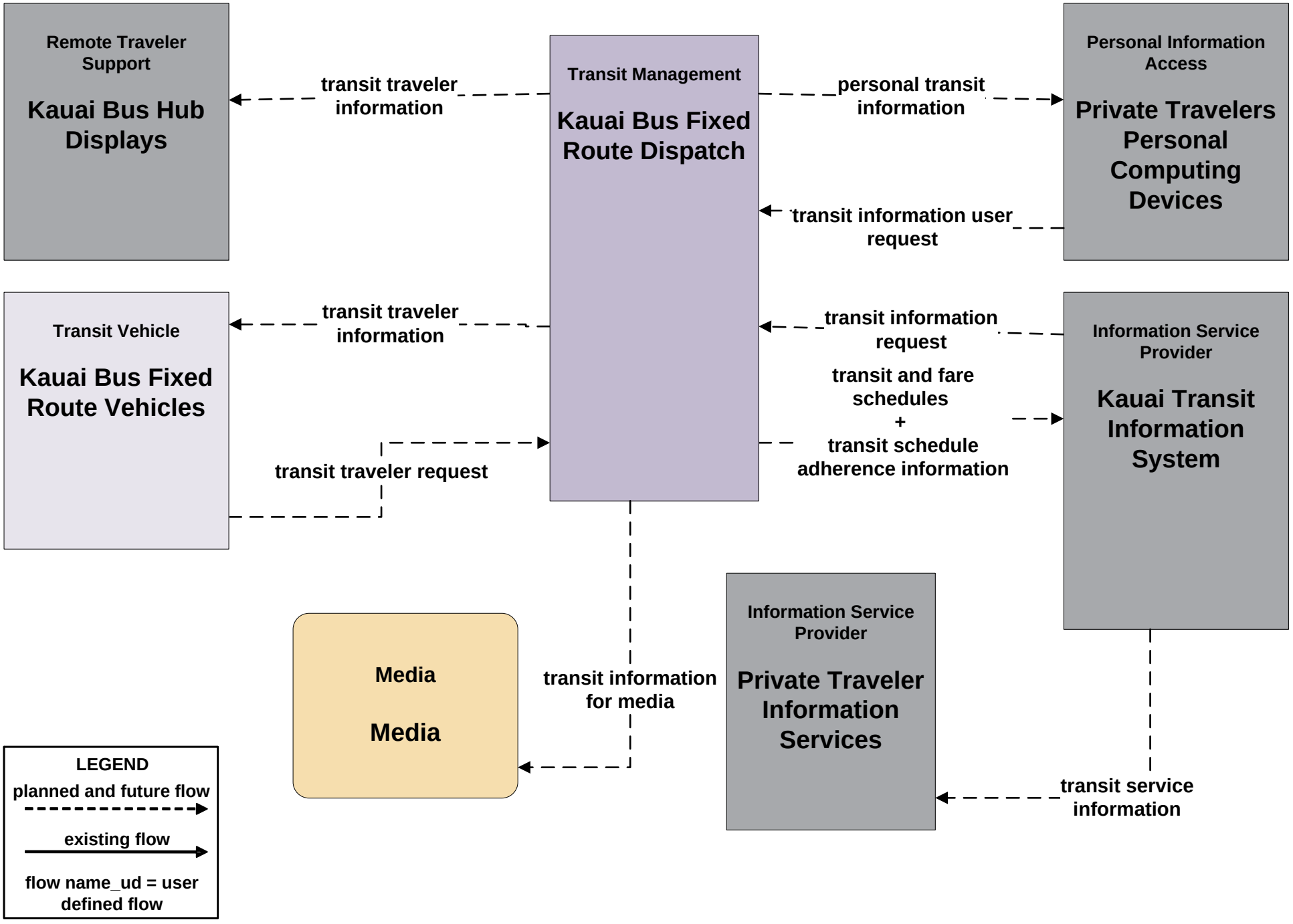
flow name_ud = user defined flow

APTS07 - Multi-modal Coordination
Transit Coordination

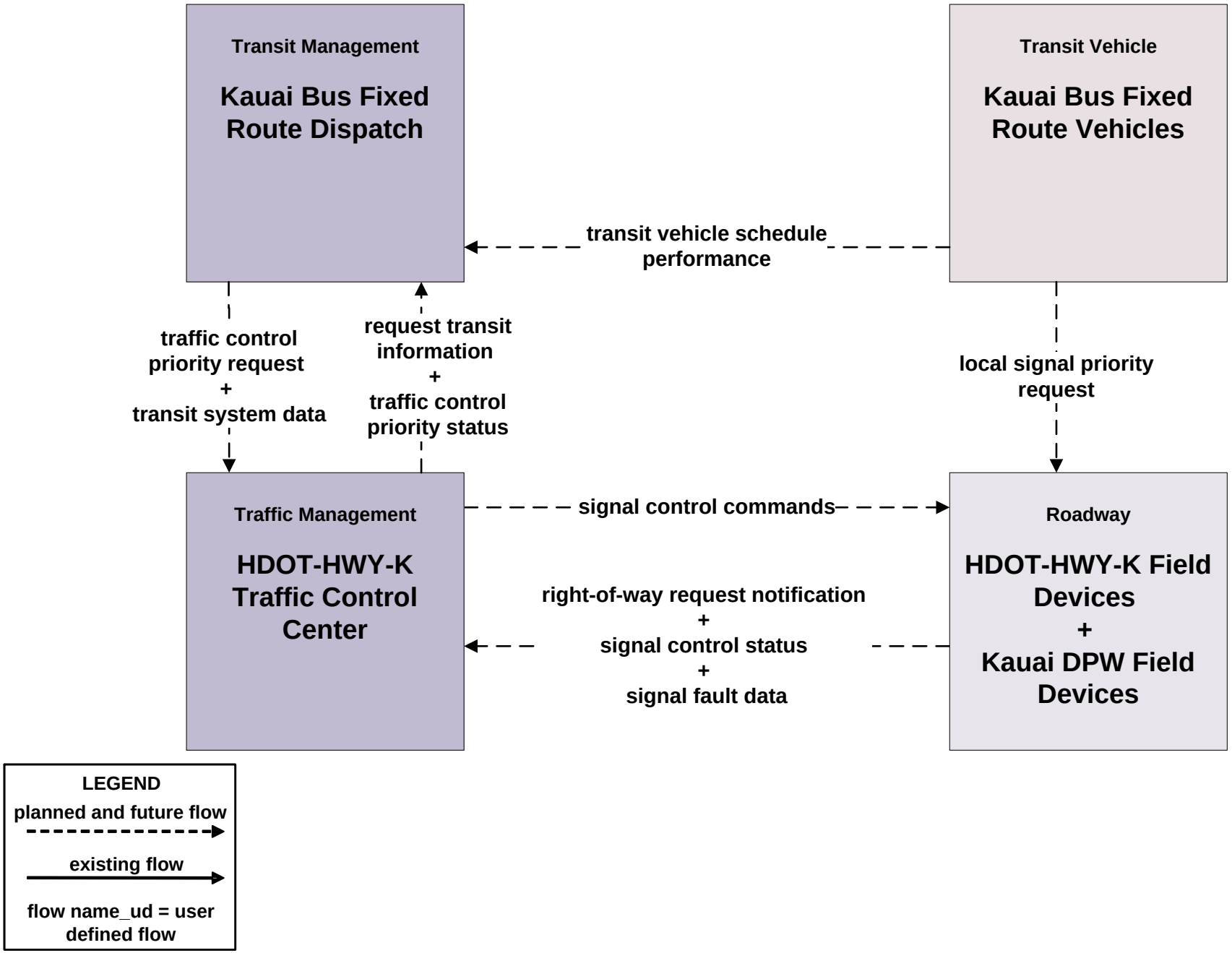




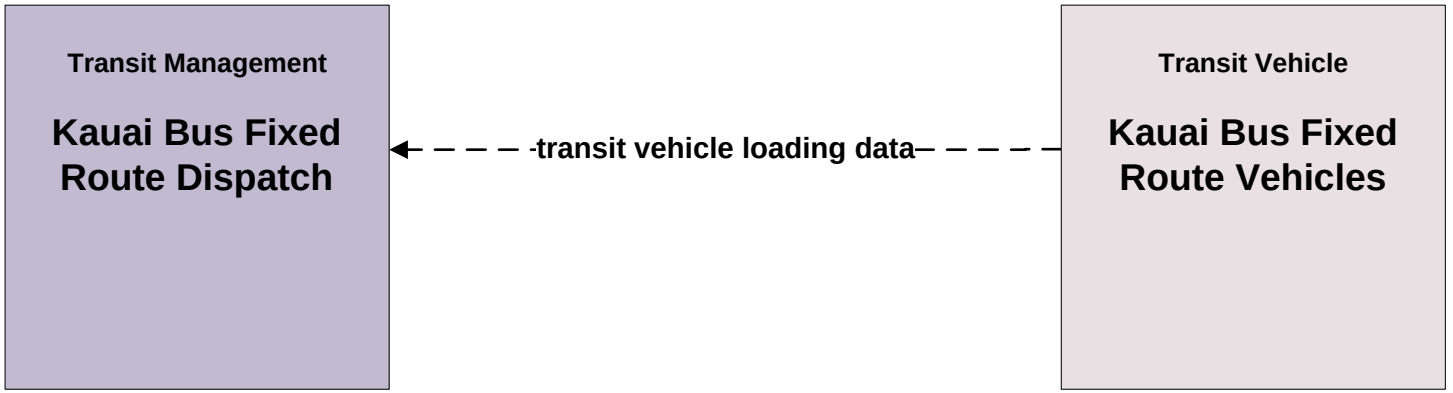
APTS08 - Transit Traveler Information
Kauai Bus



APTS09 - Transit Signal Priority
Kauai Bus



APTS10 – Transit Passenger Counting
Kauai Bus



LEGEND

planned and future flow

existing flow

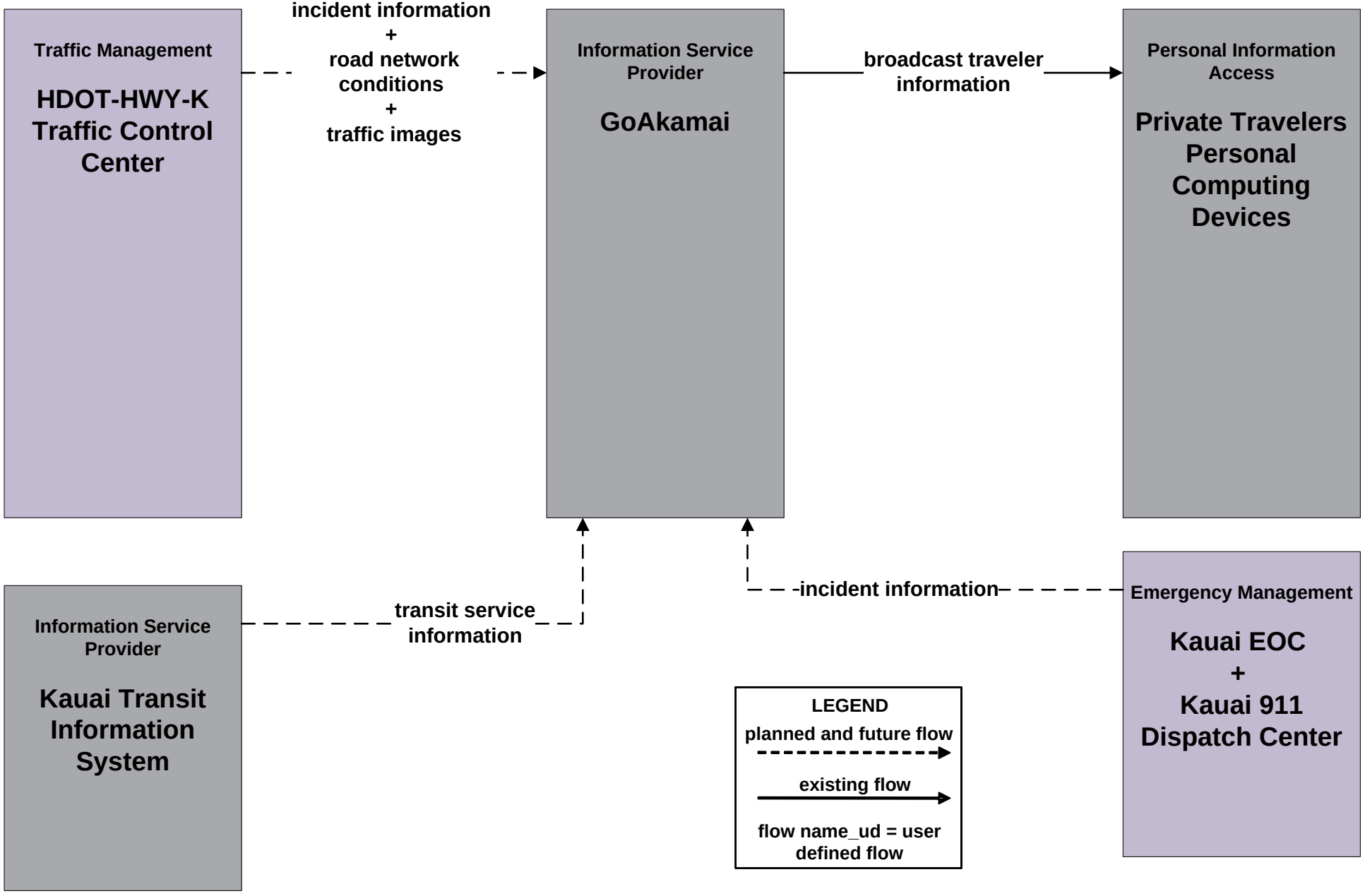
flow name_ud = user defined flow

Kauai Regional ITS Architecture

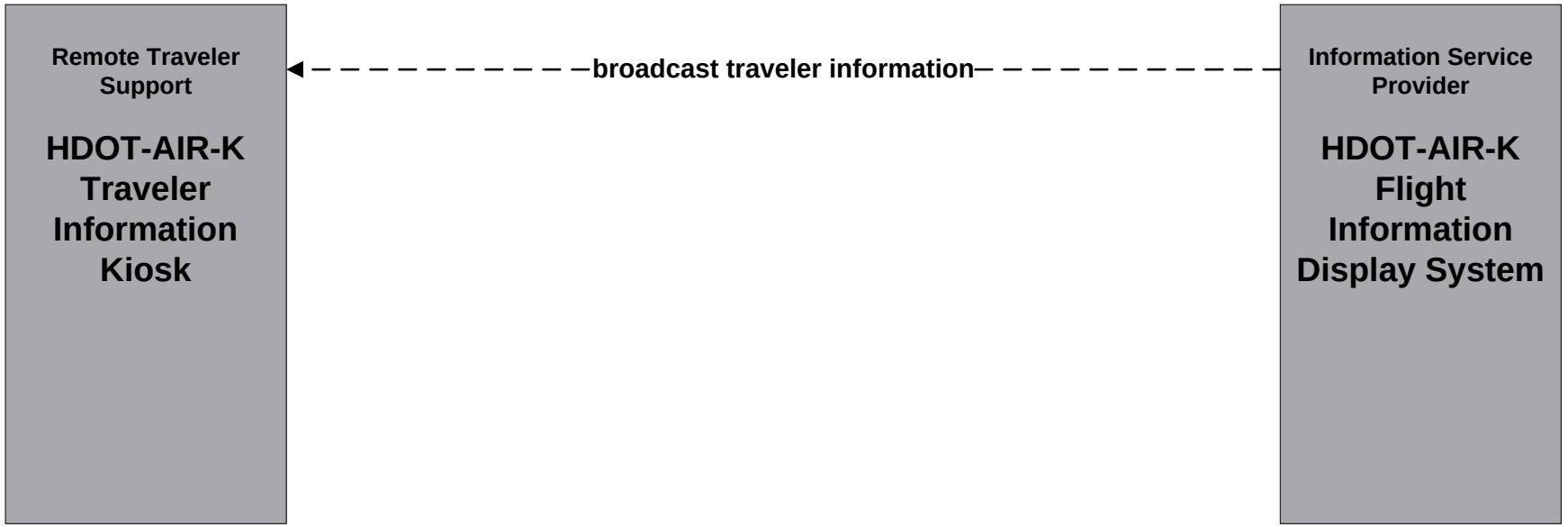
Customized Service Package Diagrams

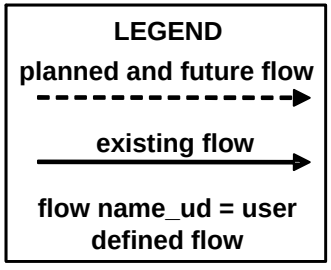
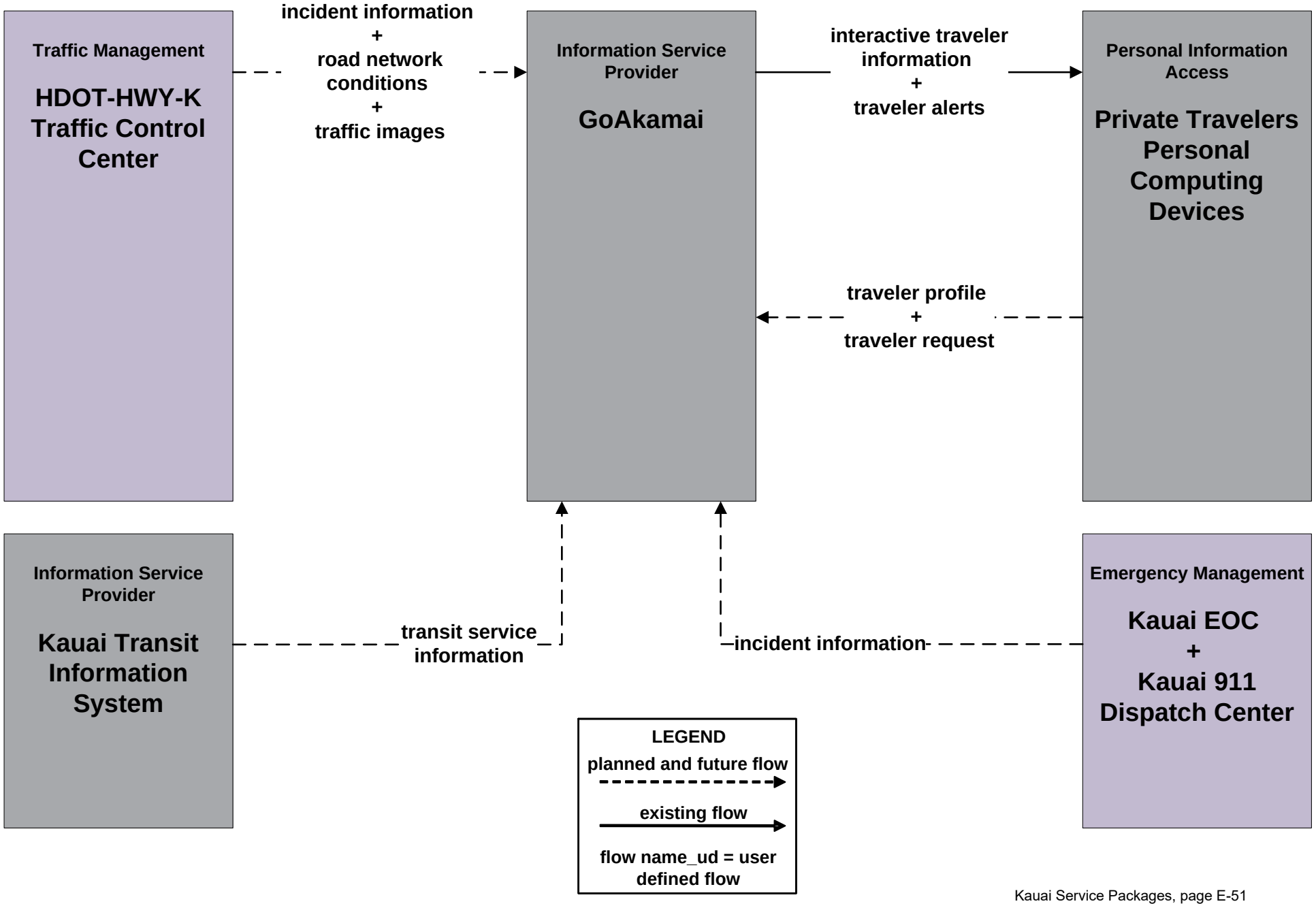
Advanced Traveler Information Systems (ATIS)

ATIS01 - Broadcast Traveler Information
HDOT GoAkamai



ATIS01 - Broadcast Traveler Information
HDOT Airports, Kauai District (HDOT-AIR-K)





ATIS02 - Interactive Traveler Information
HDOT GoAkamai