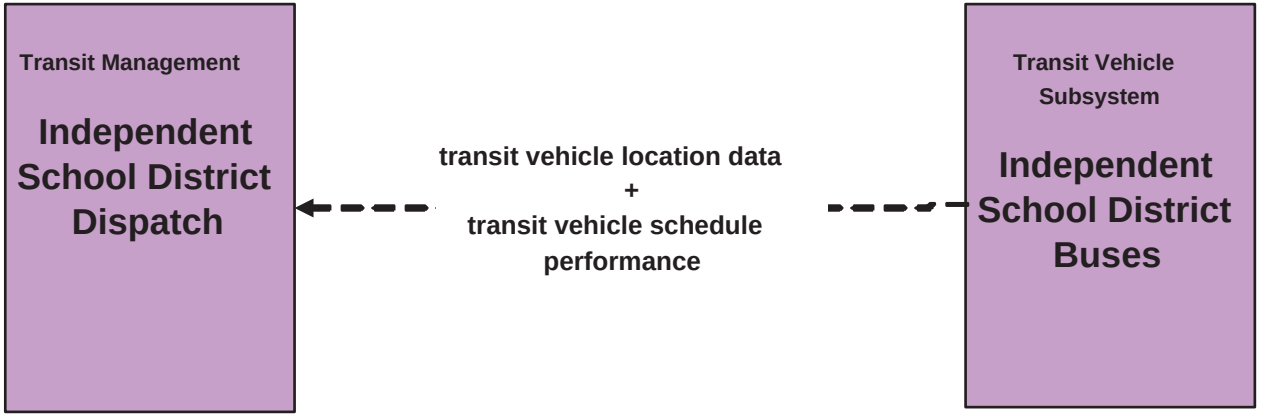
Atlanta, TX Regional ITS Architecture

Customized Market Package Diagrams

Advanced Public Transportation Systems (APTS)

APTS1 - Transit Vehicle Tracking
Independent School District Dispatch

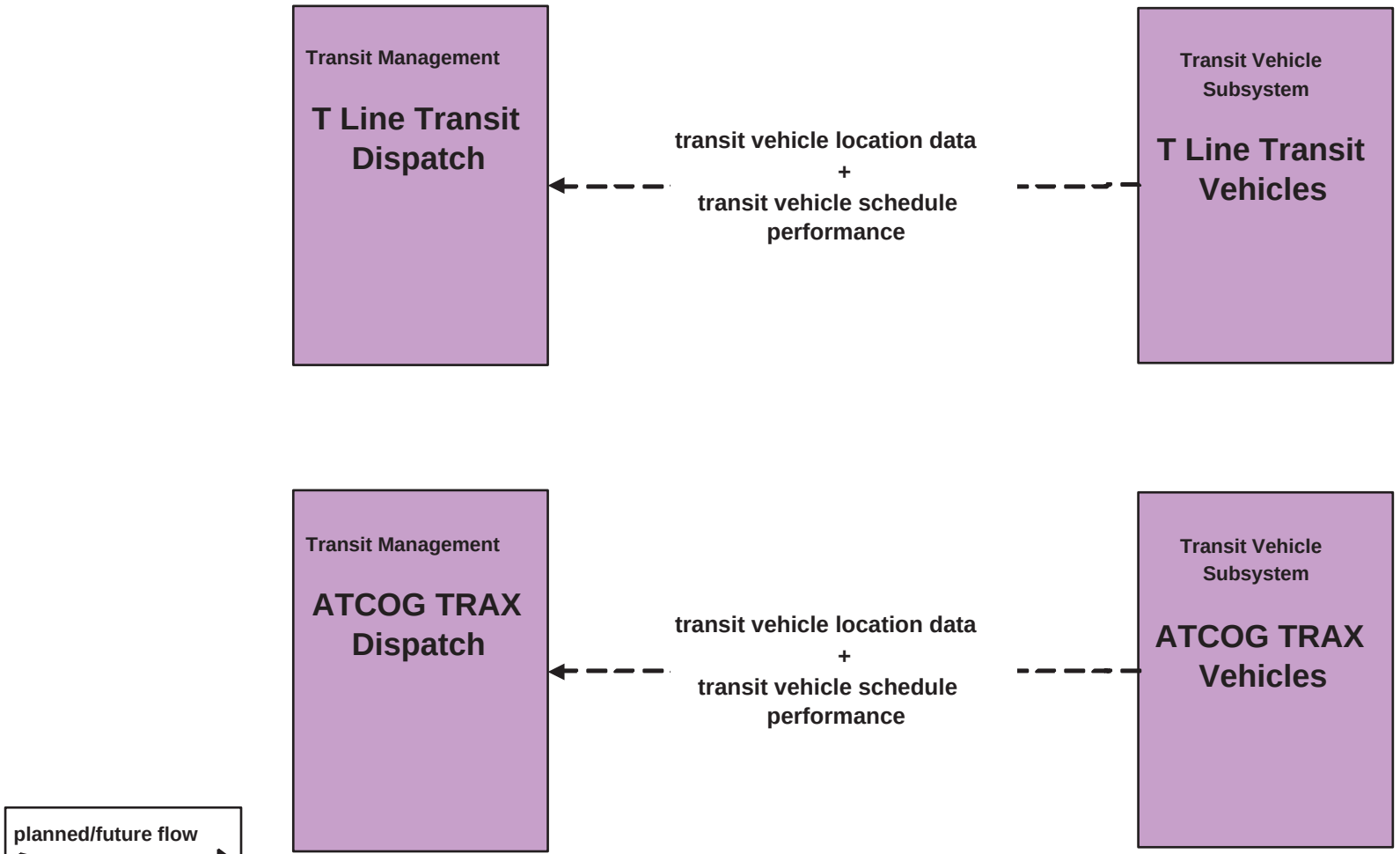


planned/future flow

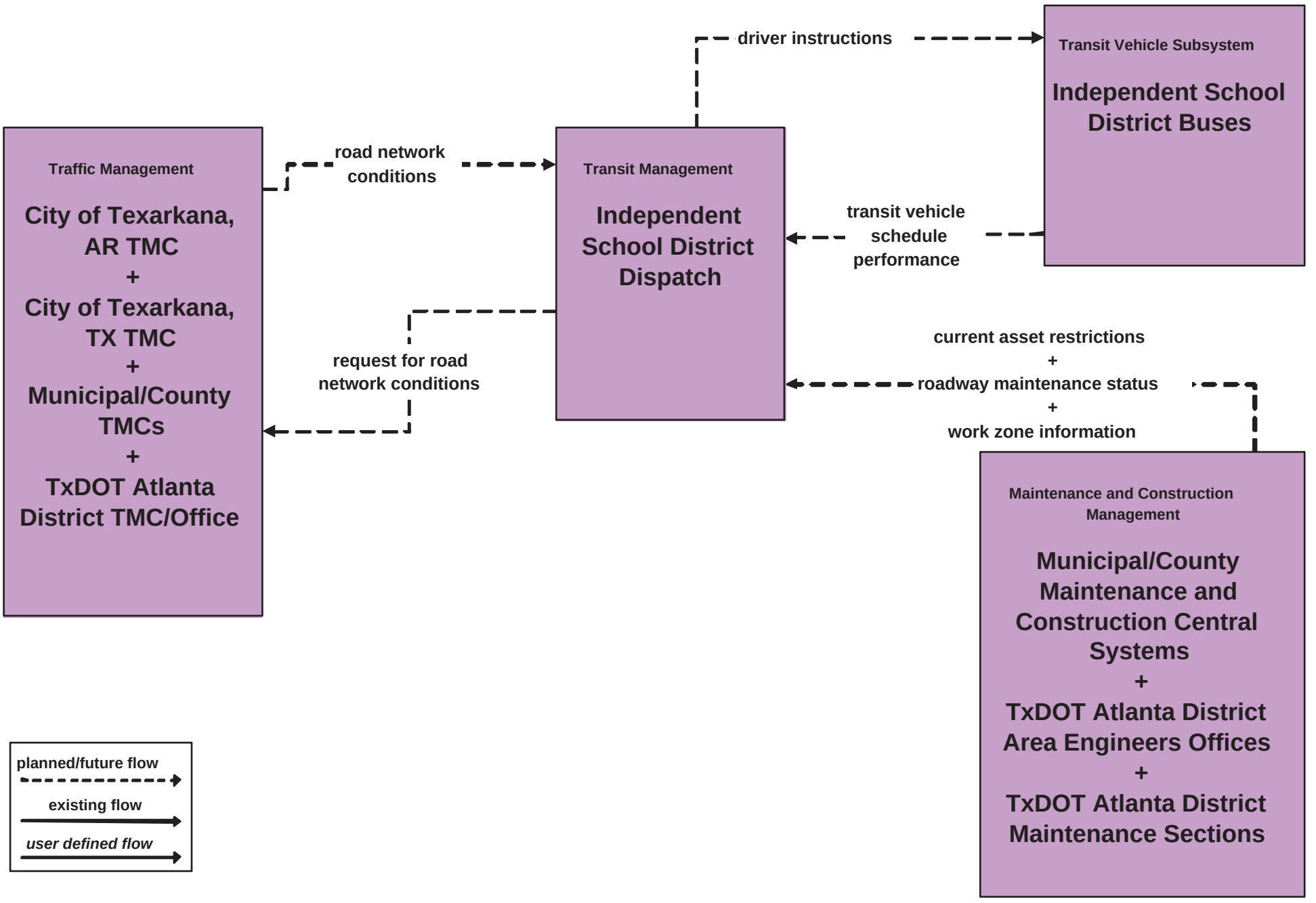
existing flow

user defined flow

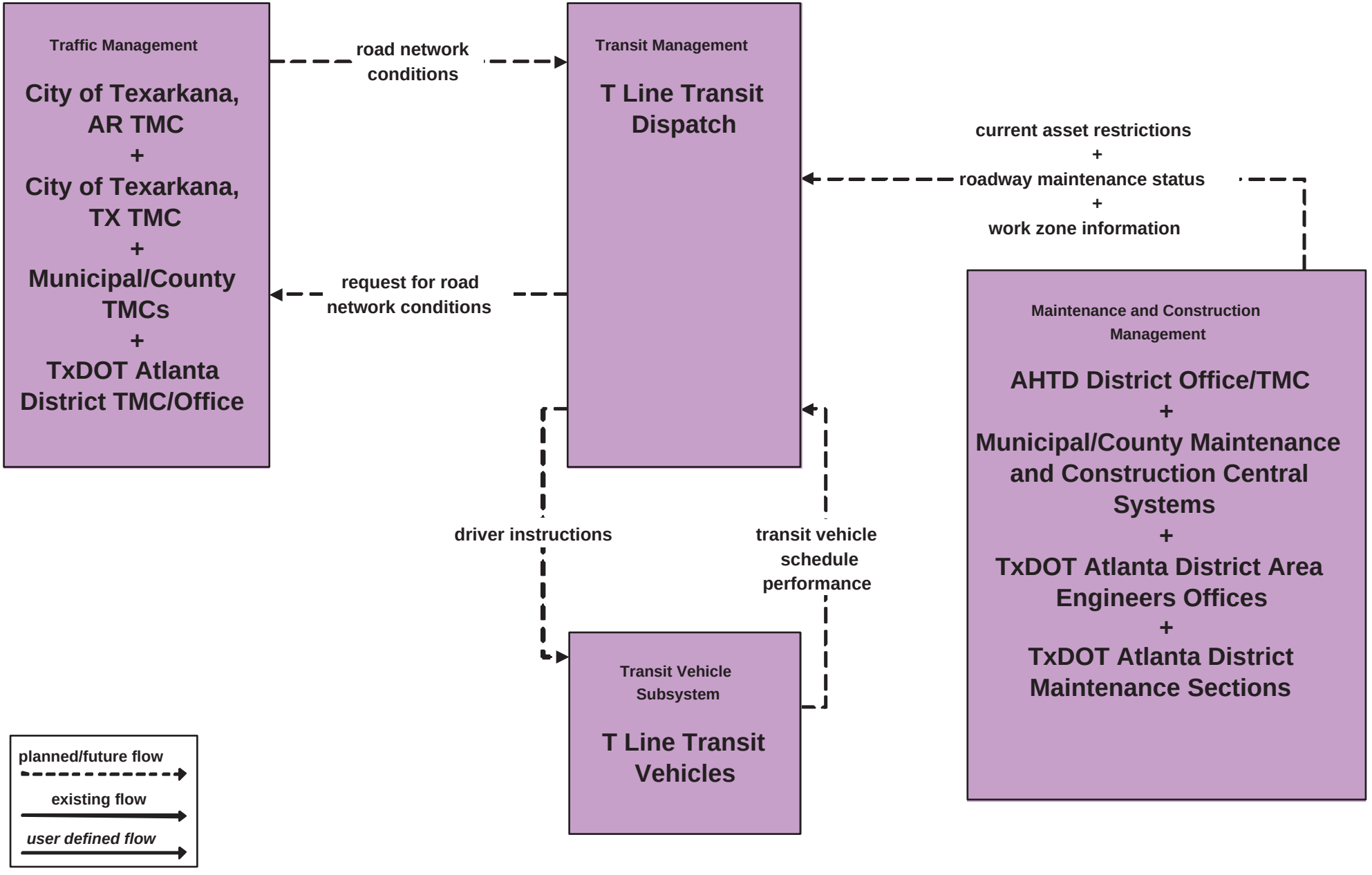
APTS1 - Transit Vehicle Tracking
T Line and ATCOG TRAX

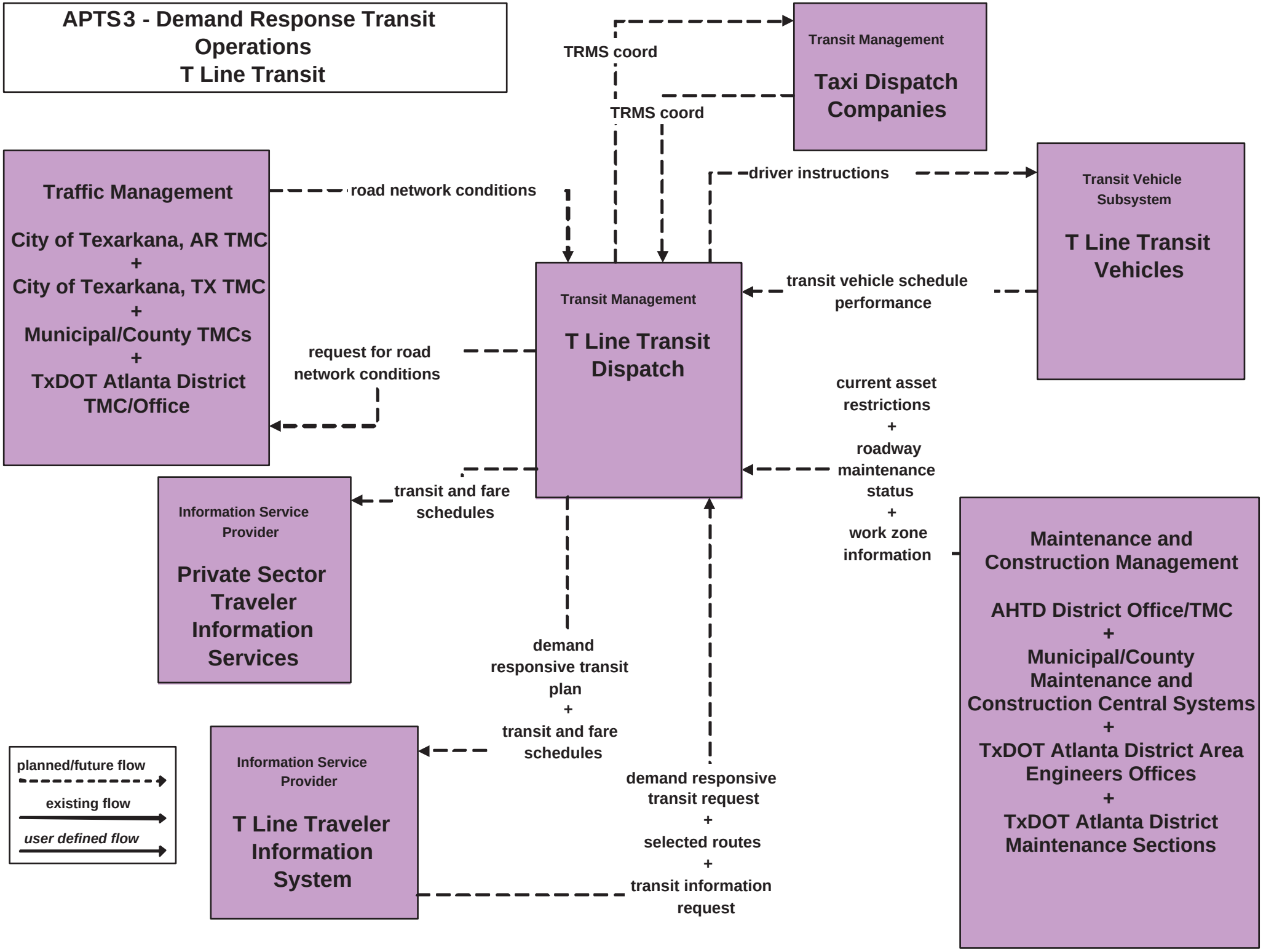


APTS2 - Transit Fixed-Route Operations
Independent School Districts

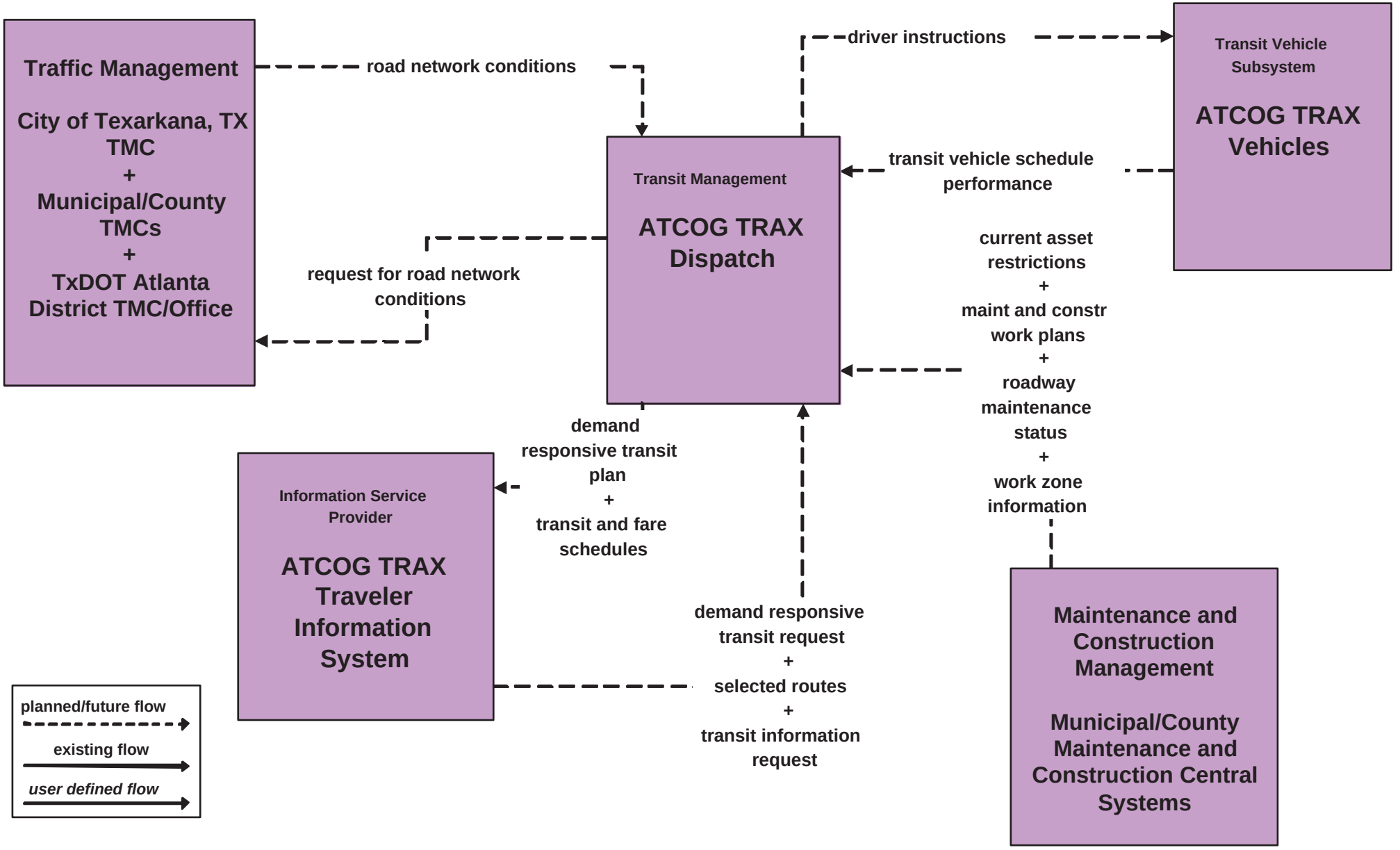


APTS 2 - Transit Fixed-Route Operations
T Line Transit

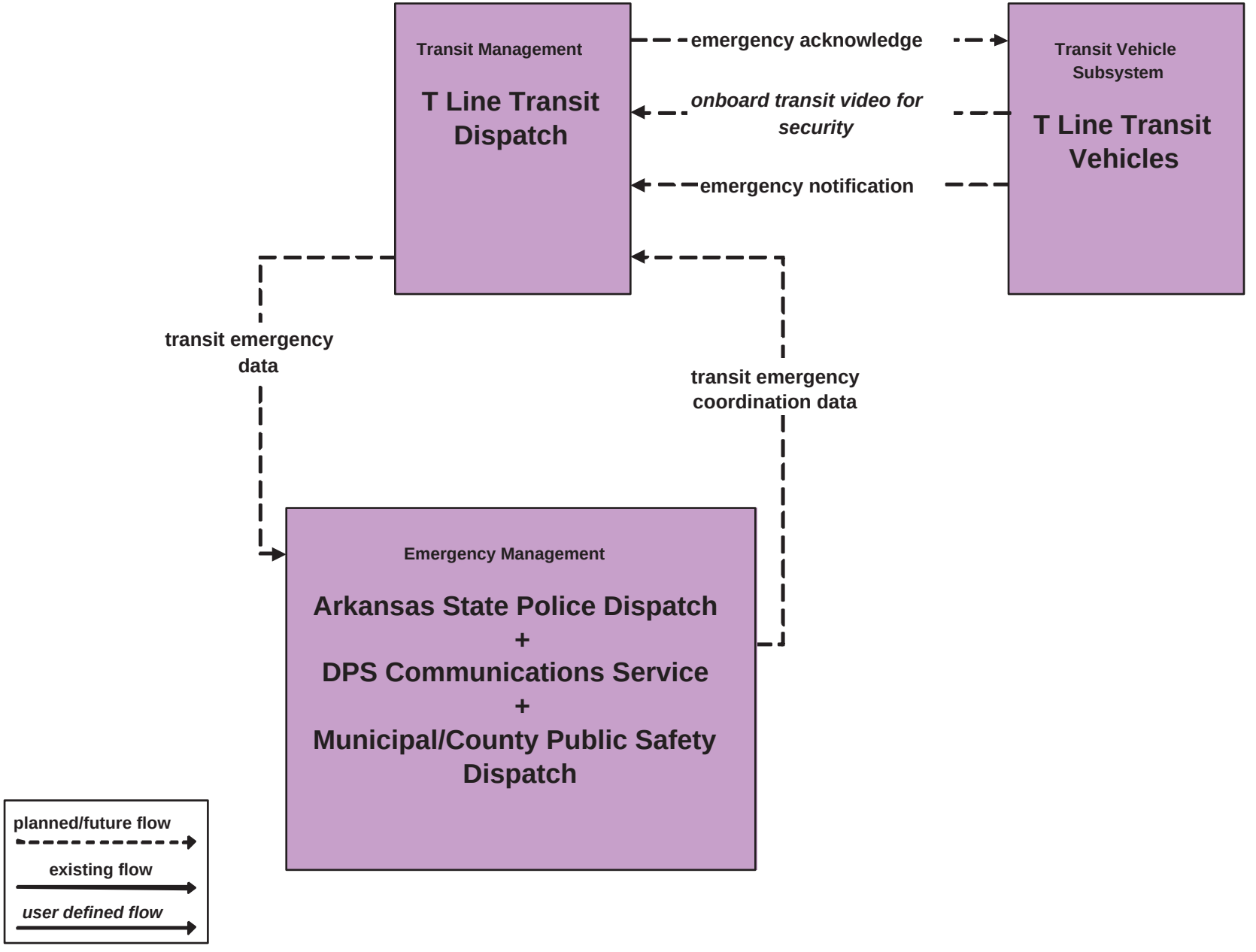



APTS3 - Demand Response Transit Operations
T Line Transit
Transit Management
Taxi Dispatch Companies
TRMS coord
TRMS coord
Traffic Management
City of Texarkana, AR TMC
+
City of Texarkana, TX TMC
+
Municipal/County TMCs
+
TxDOT Atlanta District TMC/Office
road network conditions
driver instructions
Transit Vehicle Subsystem
T Line Transit Vehicles
Transit Management
T Line Transit Dispatch
transit vehicle schedule performance
request for road network conditions
current asset restrictions
+
roadway maintenance status
+
work zone information
Information Service Provider
Private Sector Traveler Information Services
transit and fare schedules
Maintenance and Construction Management
AHTD District Office/TMC
+
Municipal/County Maintenance and Construction Central Systems
+
TxDOT Atlanta District Area Engineers Offices
+
TxDOT Atlanta District Maintenance Sections
demand responsive transit plan
+
transit and fare schedules
demand responsive transit request
+
selected routes
+
transit information request
Information Service Provider
T Line Traveler Information System
planned/future flow
existing flow
user defined flow

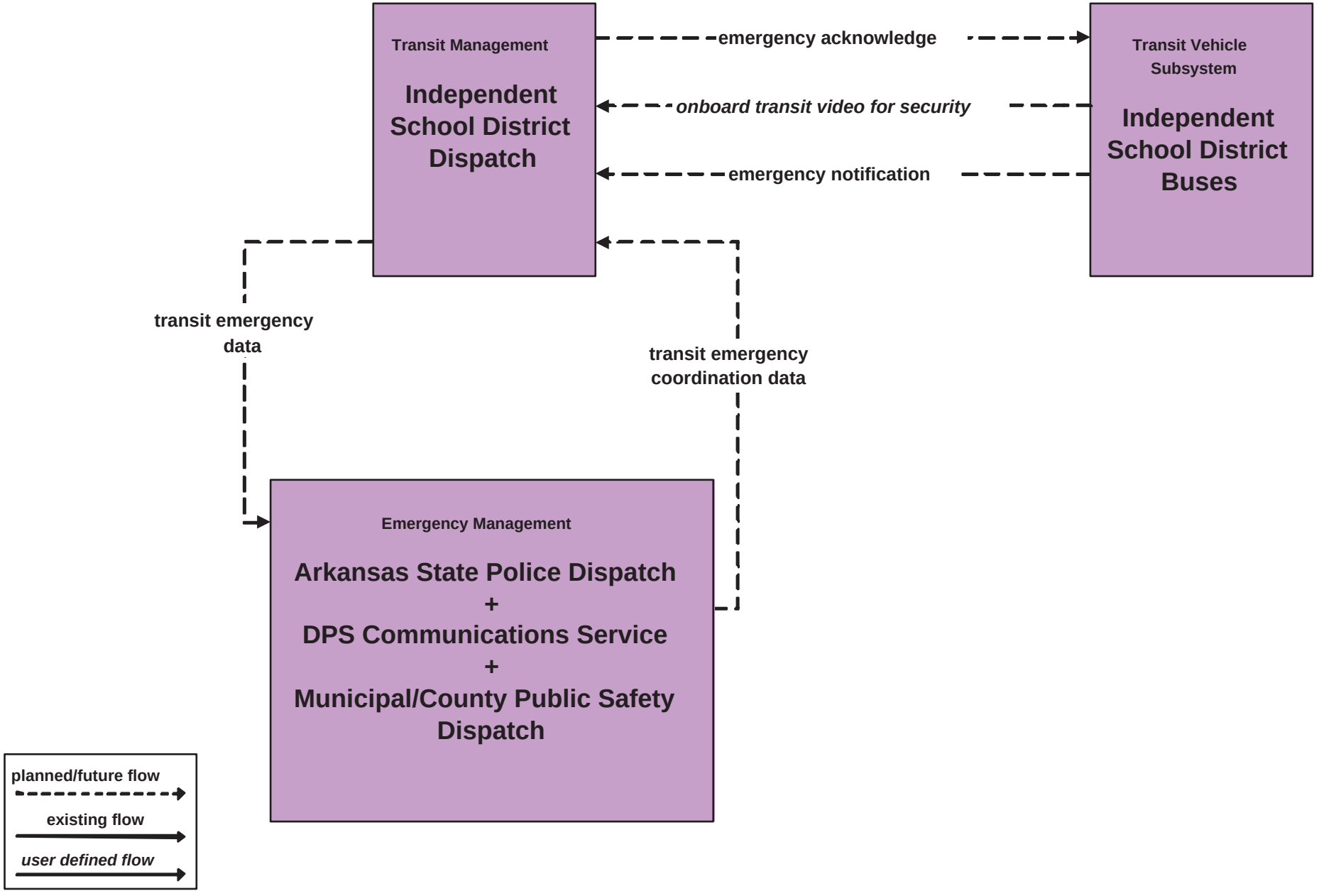
APTS3 - Demand Response Transit Operations
ATCOG TRAX



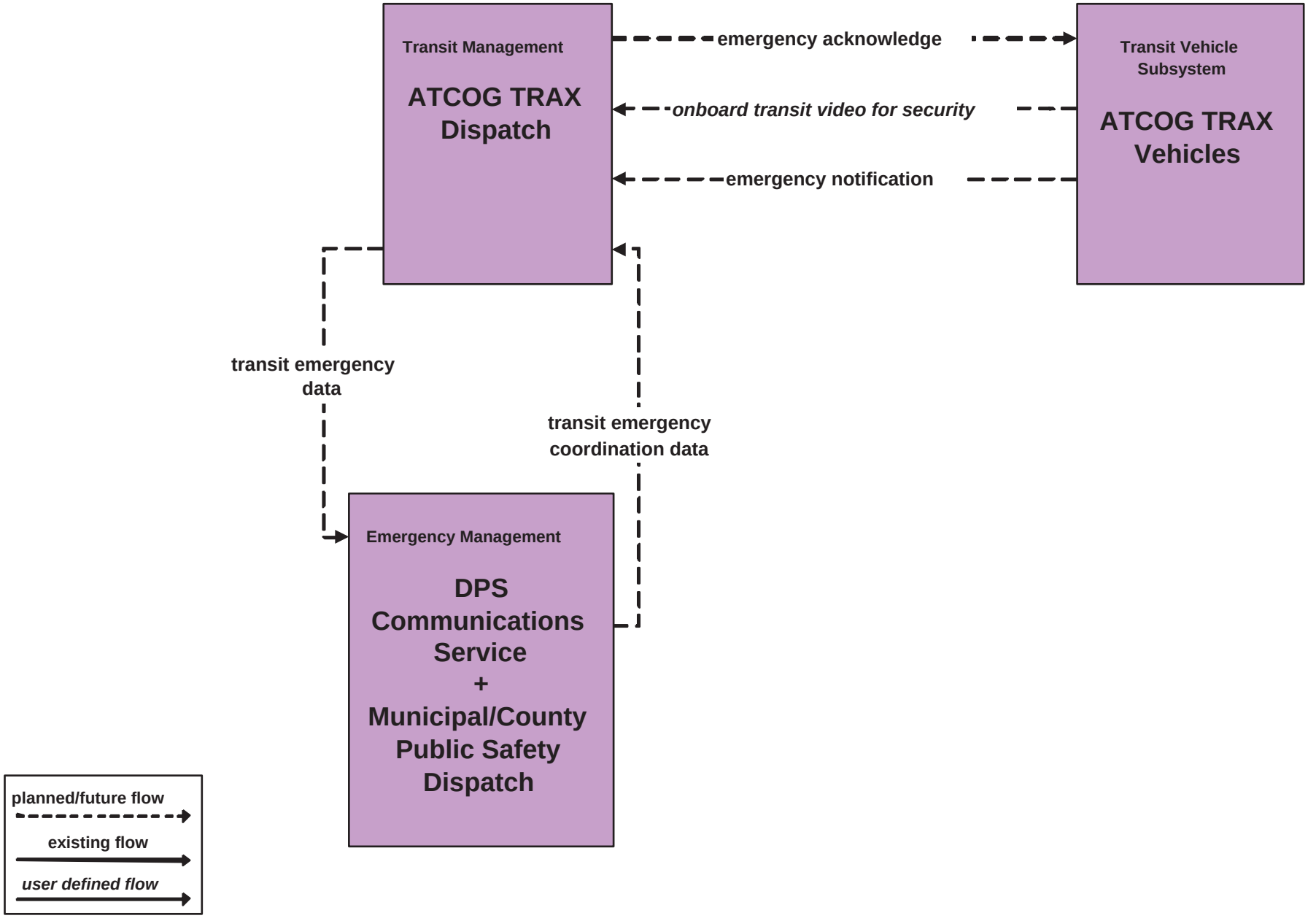
APTS5 - Transit Security
T Line



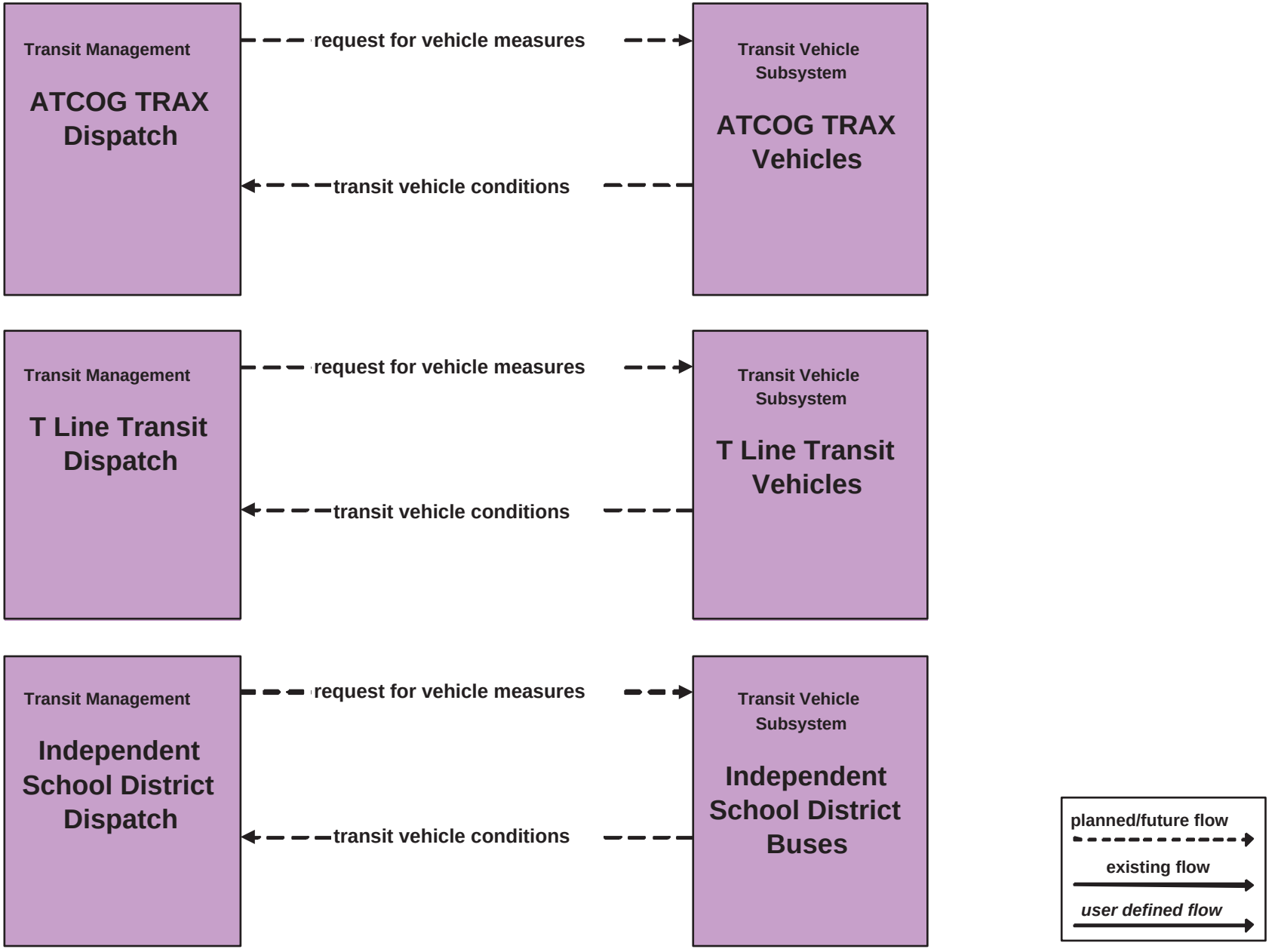
APTS5 - Transit Security
Independent School Districts



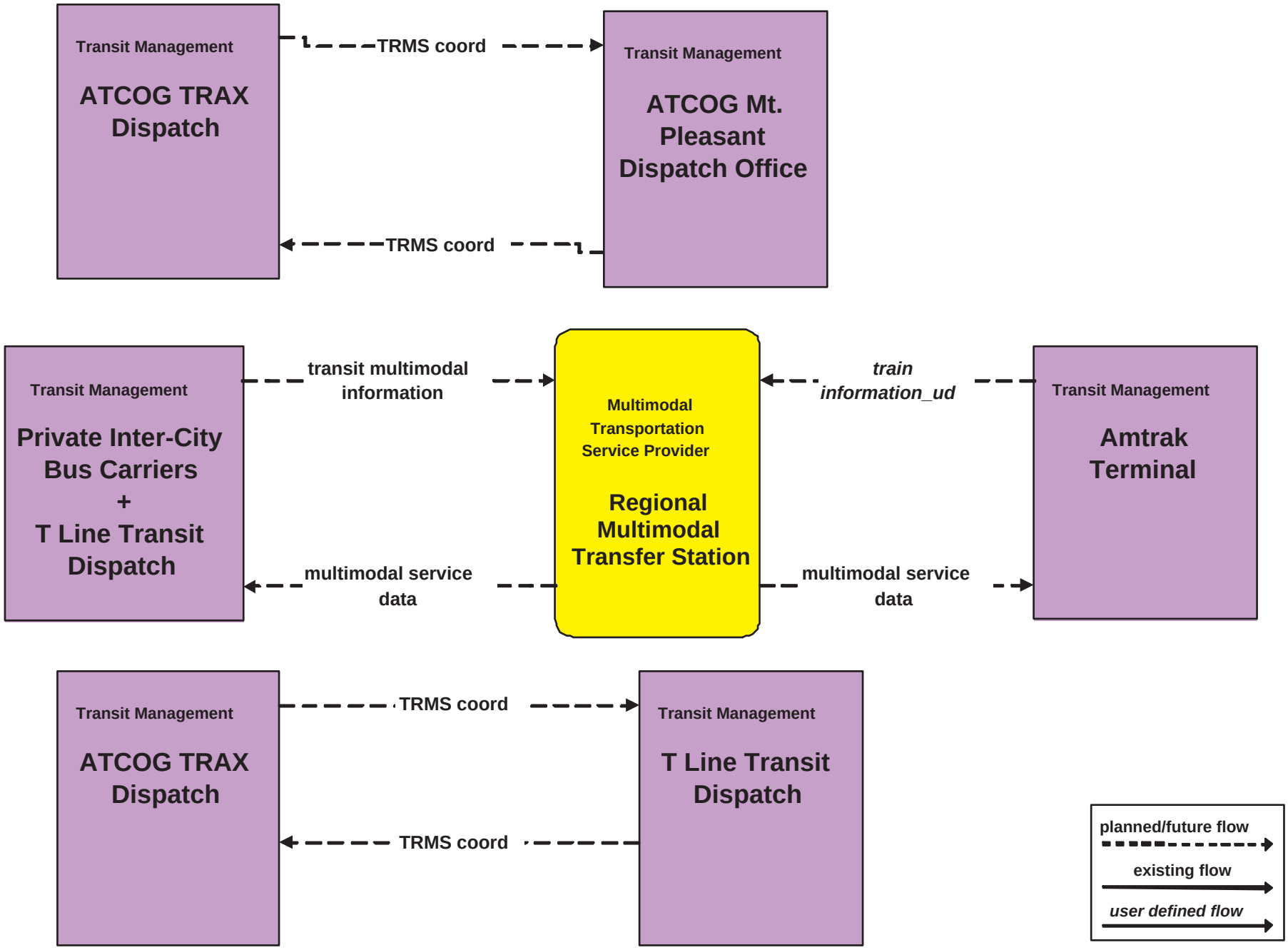
APTS5 - Transit Security
ATCOG TRAX

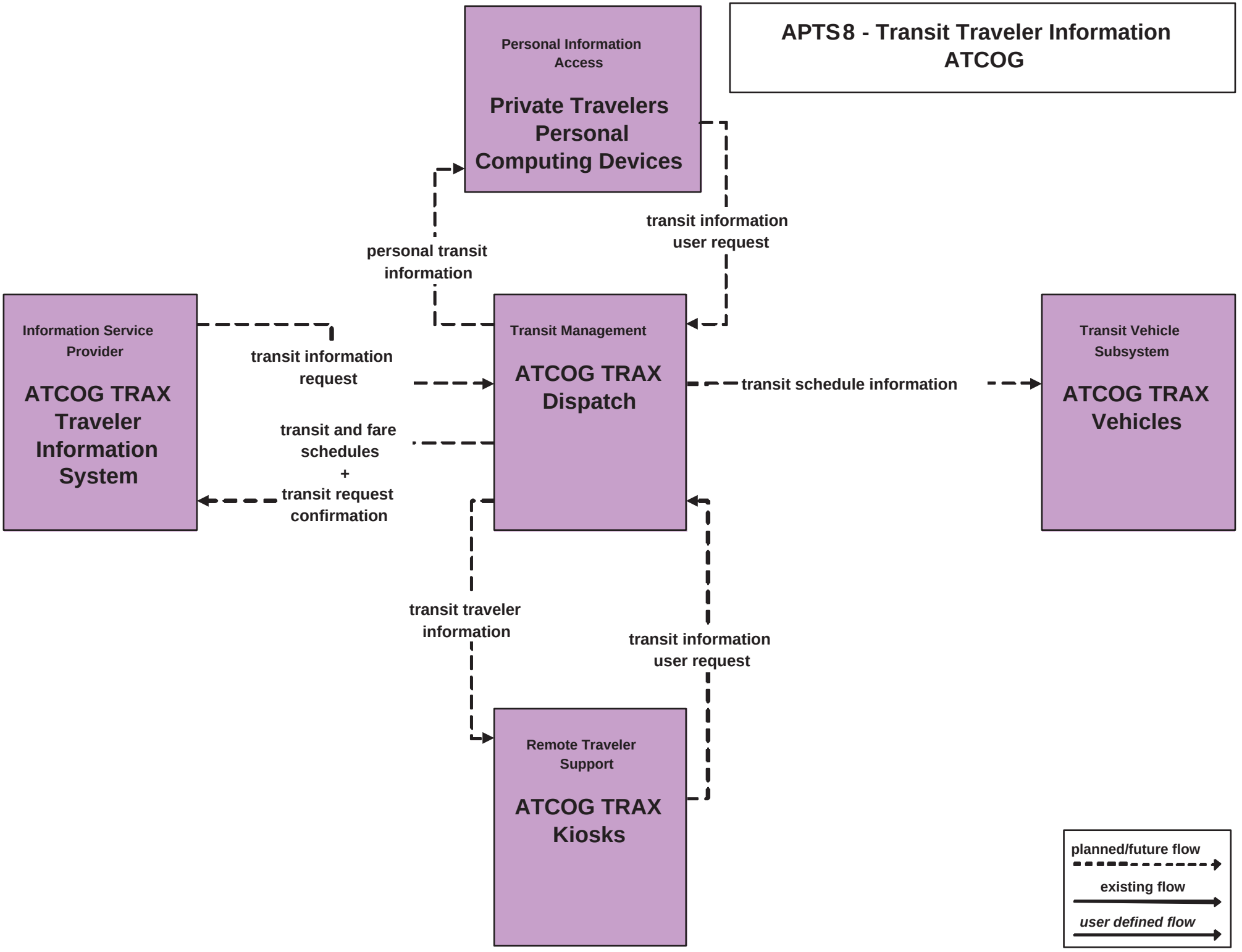
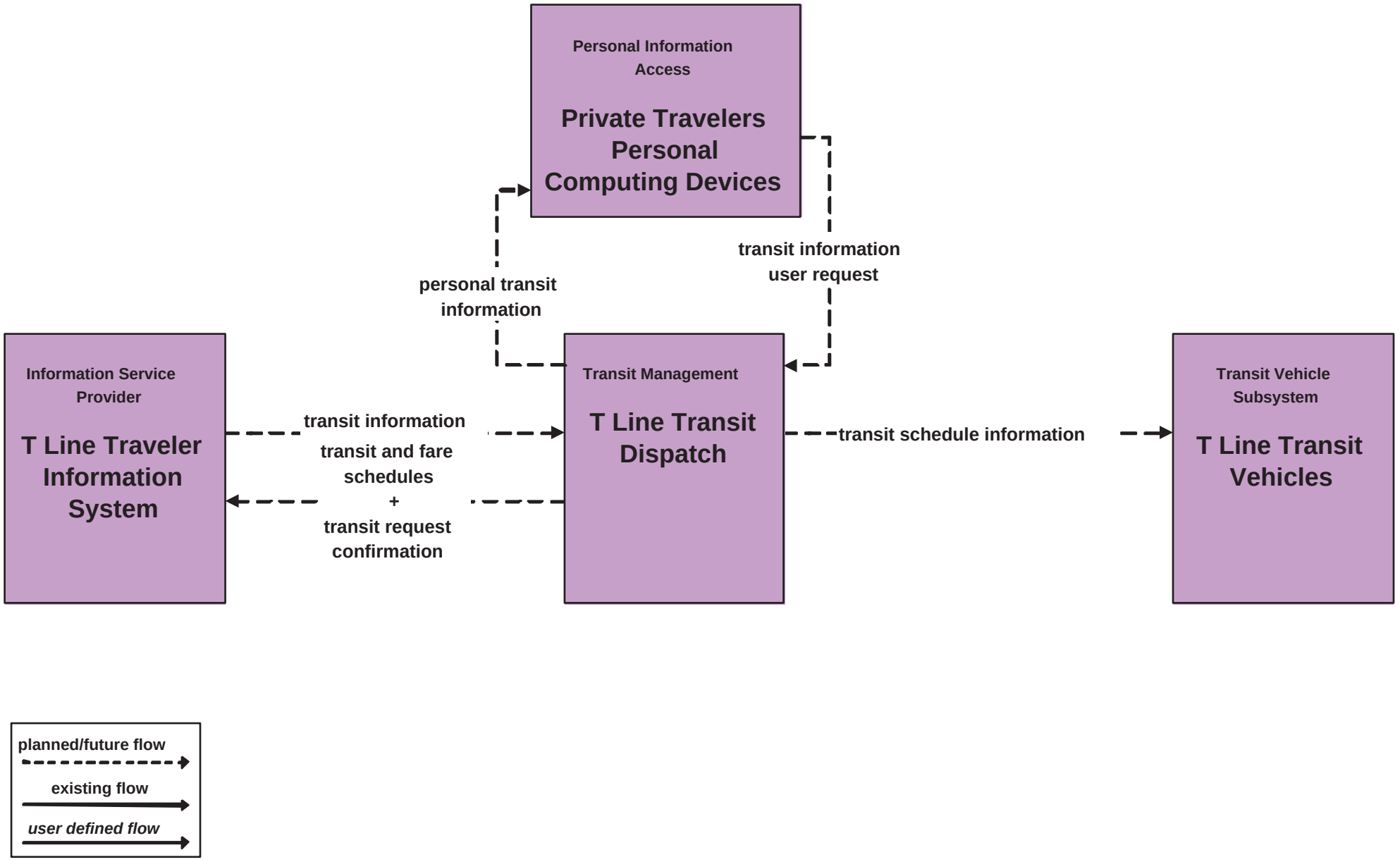


APTS6 - Transit Vehicle Maintenance



APTS 7 - Multimodal Coordination




APTS8 - Transit Traveler Information
ATCOG
Personal Information Access
Private Travelers Personal Computing Devices
transit information user request
personal transit information
Information Service Provider
ATCOG TRAX Traveler Information System
transit information request
transit and fare schedules + transit request confirmation
Transit Management
ATCOG TRAX Dispatch
transit schedule information
Transit Vehicle Subsystem
ATCOG TRAX Vehicles
transit traveler information
transit information user request
Remote Traveler Support
ATCOG TRAX Kiosks
planned/future flow
existing flow
user defined flow

APTS8 - Transit Traveler Information
T Line