#### Appendix D: Customized Market Packages





# New Mexico Statewide ITS Architecture

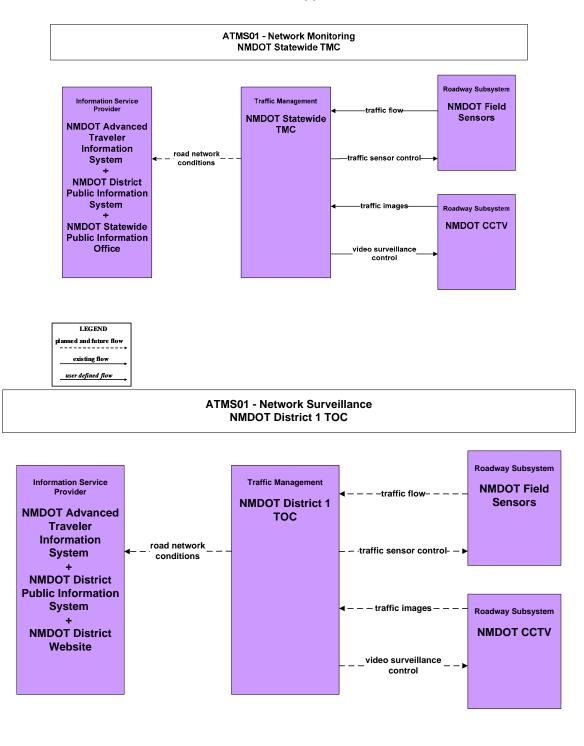
### **Customized Market Package Diagrams**

## based on National ITS Architecture Version 5.1

March 23, 2007



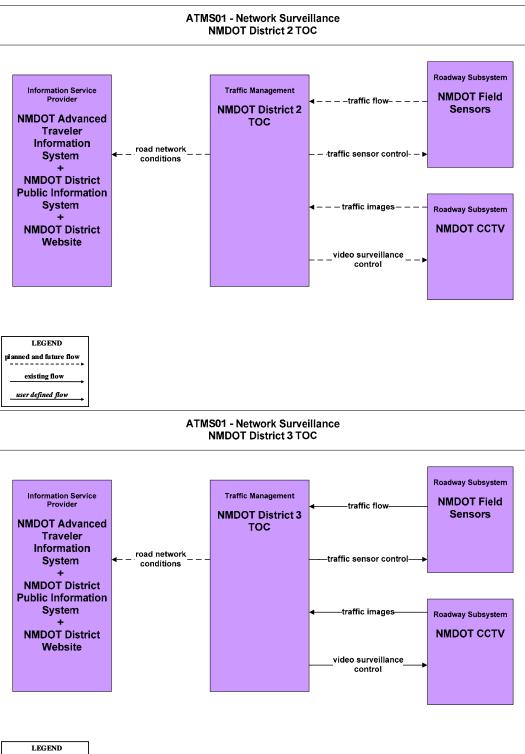




LEGEND planned and future flow					
existing flow					



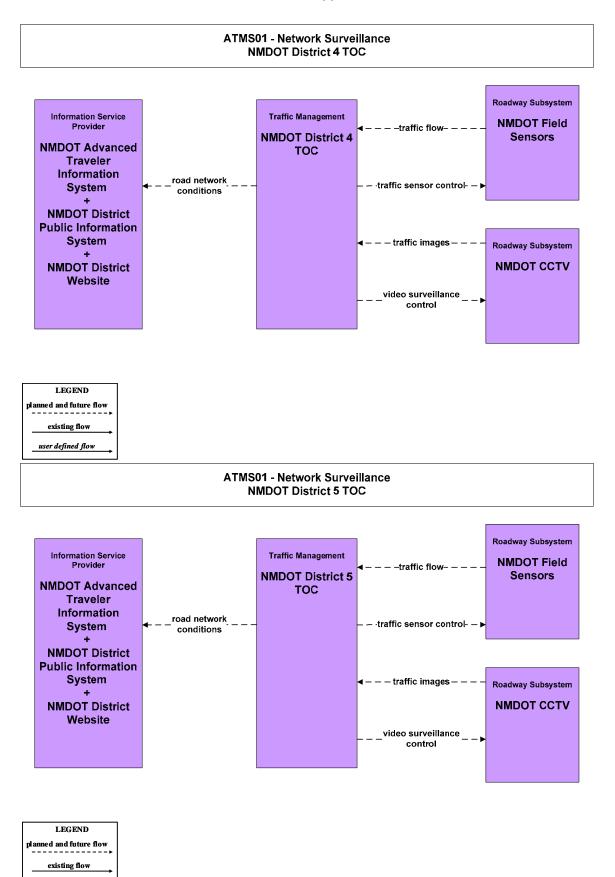








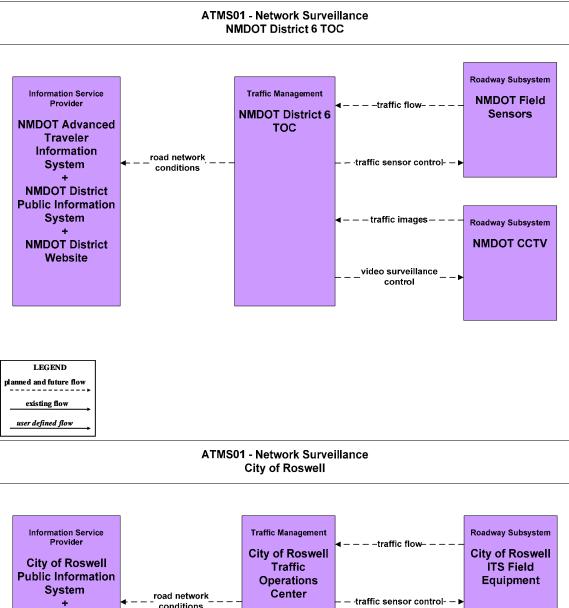


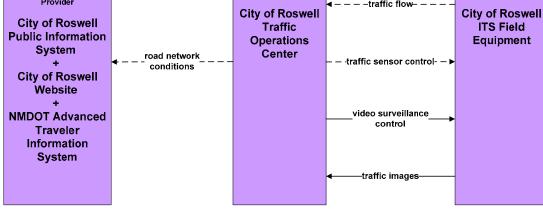


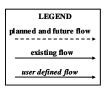


user defined flow



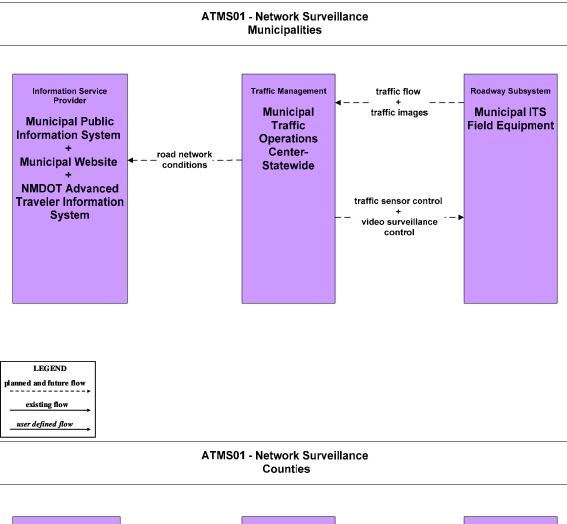


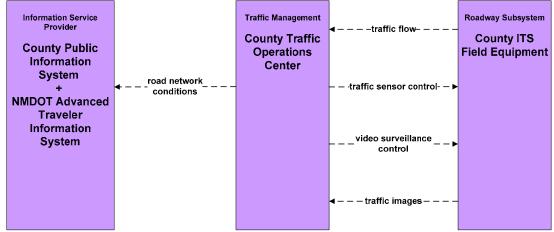








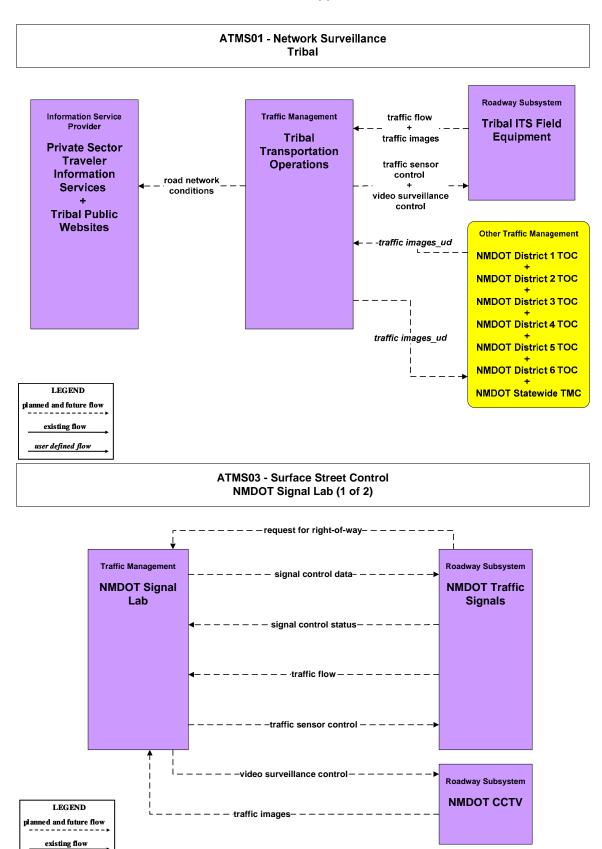




LEGEND					
planned and future flow					
•					
existing flow					
user defined flow					
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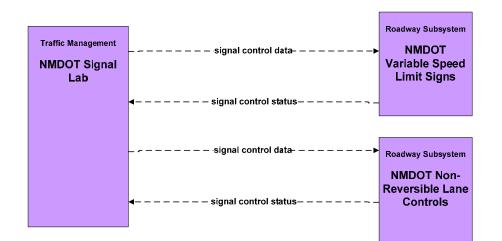
NOTE: In the future, the NMDOT Signal Lab will control all traffic NMDOT traffic signals.

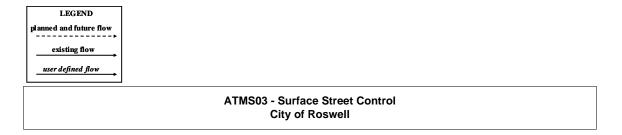


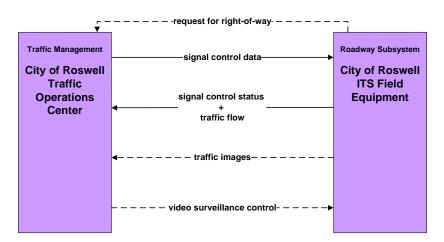
user defined flow



#### ATMS03 - Surface Street Control NMDOT Signal Lab (2 of 2)





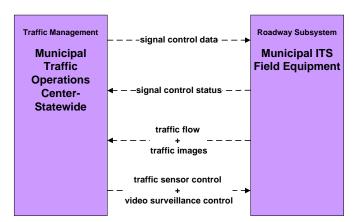


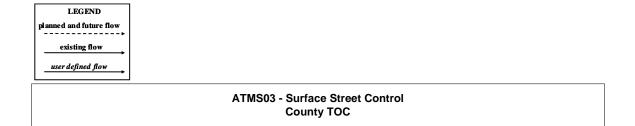


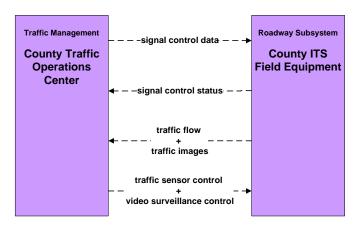








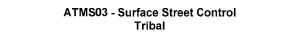


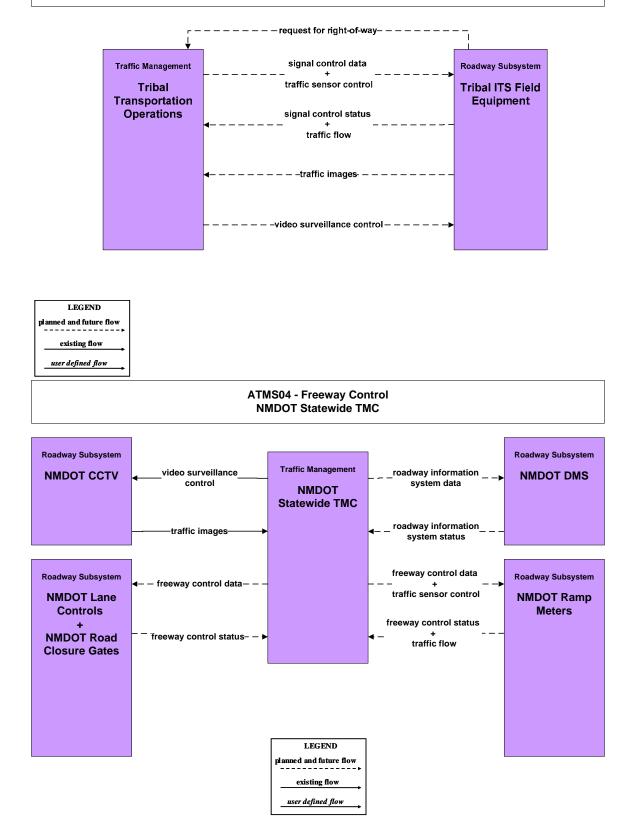








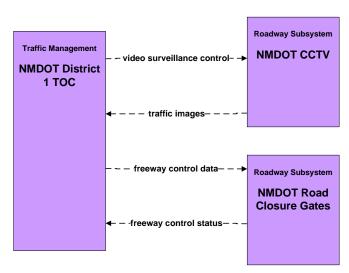


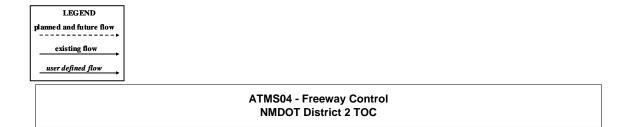


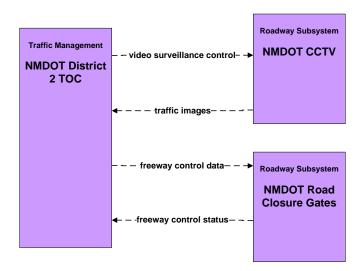


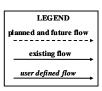




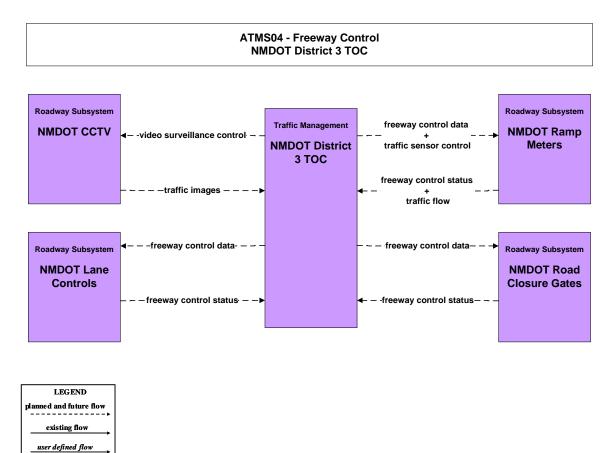




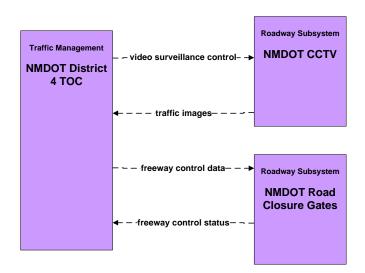


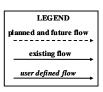










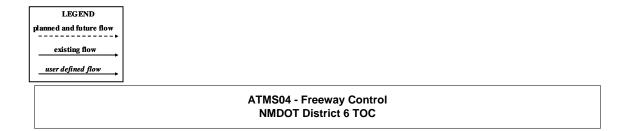


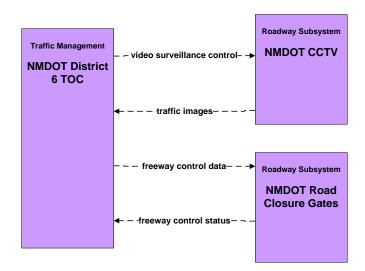


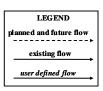




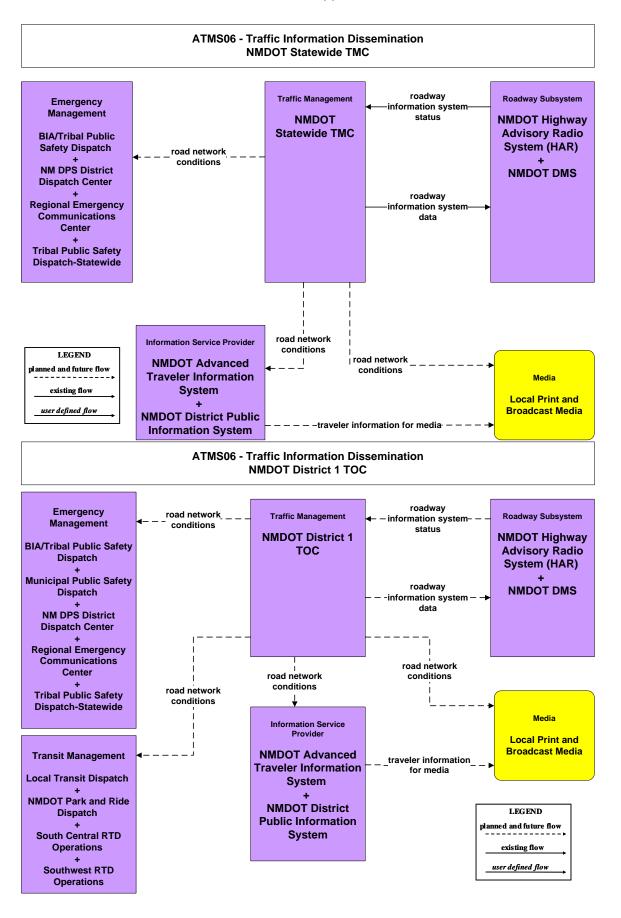
Roadway Subsystem	<	Traffic Management NMDOT District 5 TOC	– – – -freeway control data- – – ►	Roadway Subsystem NMDOT Road Closure Gates
	– – – – – traffic images – – – –►			
Roadway Subsystem NMDOT Lane Controls	<ul> <li>– – -freeway control data- – – –</li> </ul>		<ul> <li>              ← freeway control status – – –      </li> </ul>	
	– – – freeway control status – –▶			



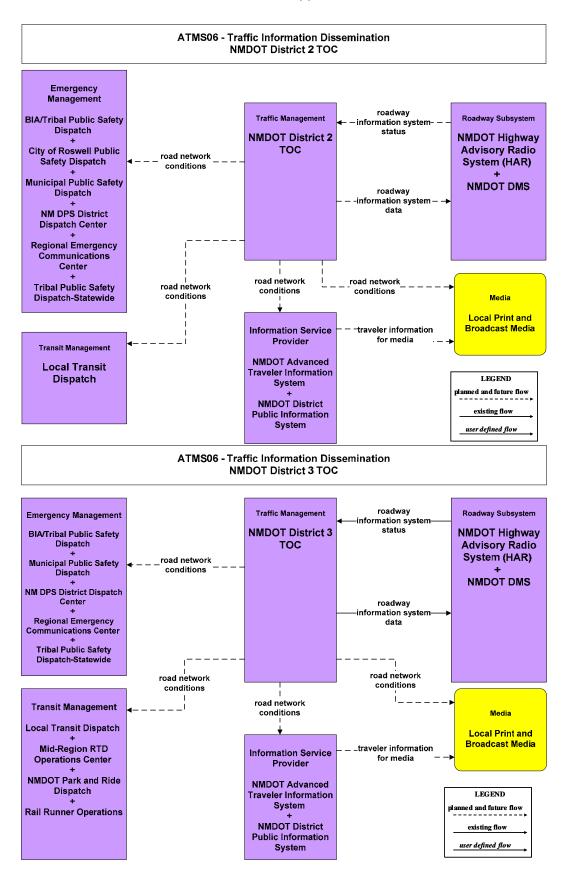




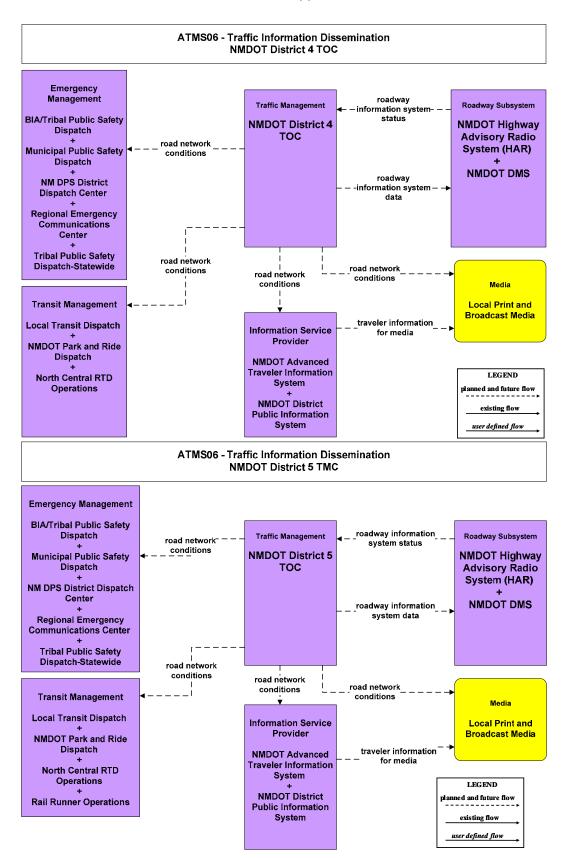






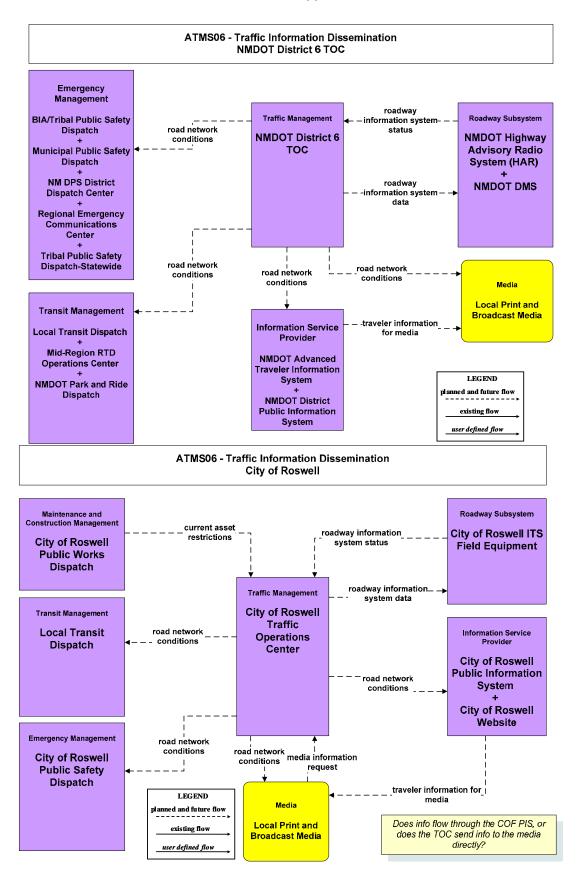






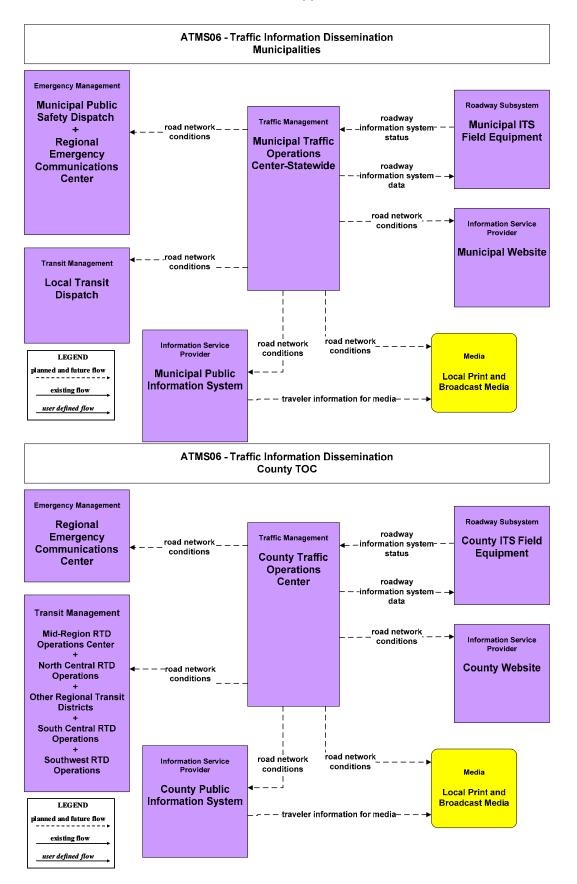






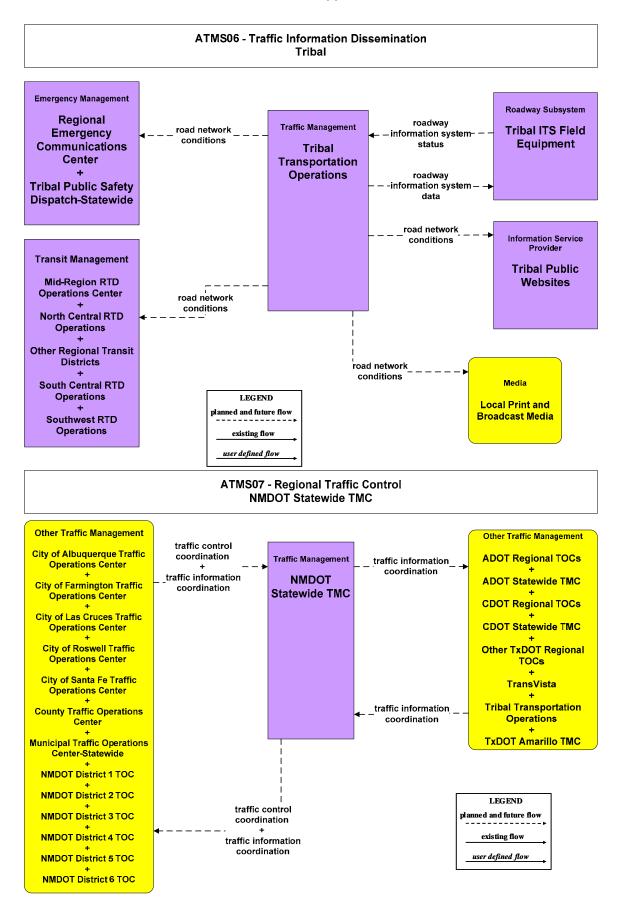




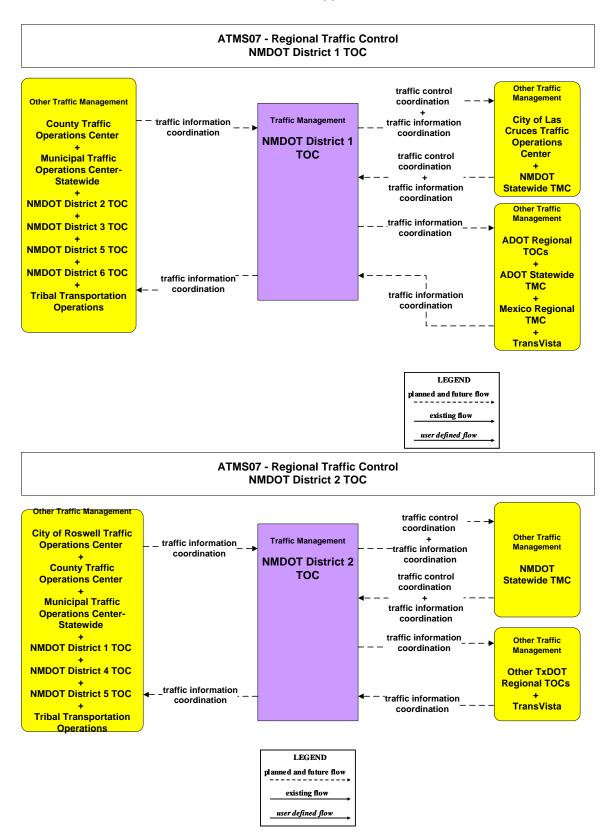






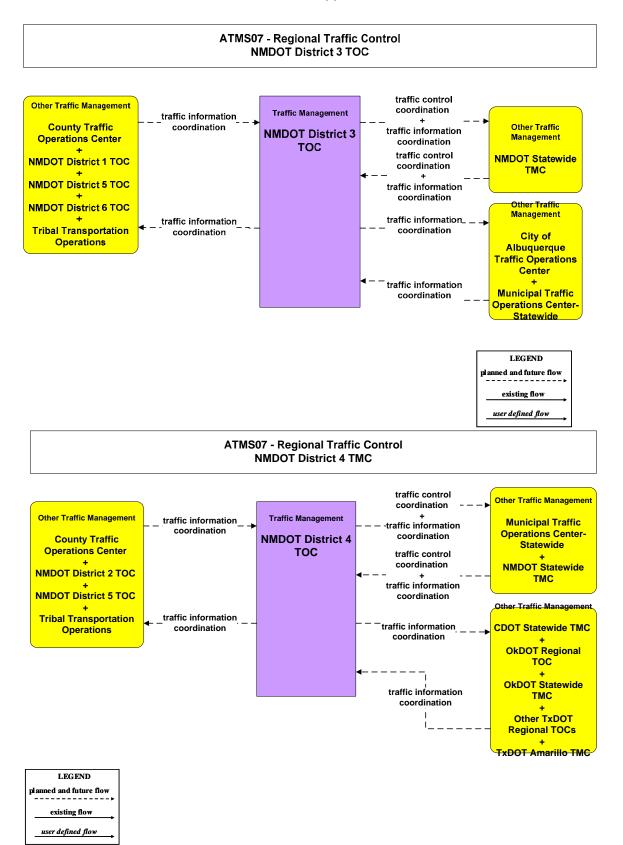






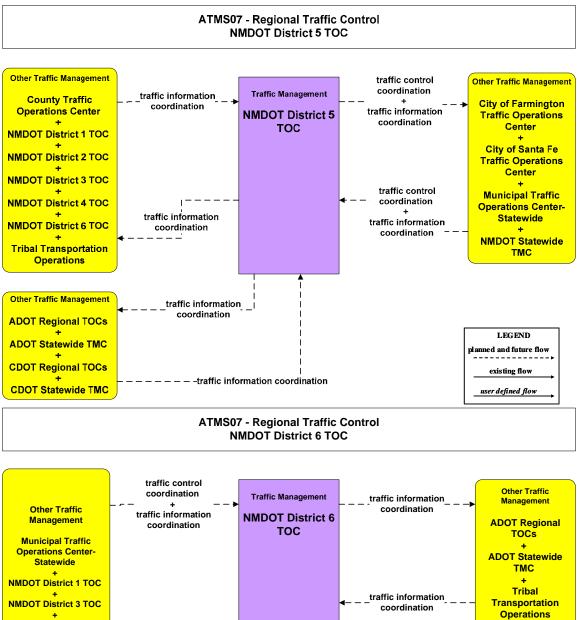


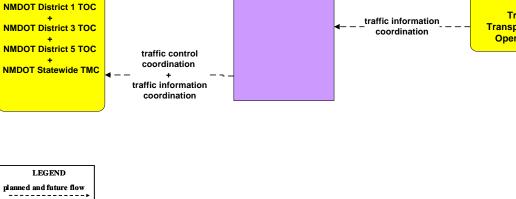








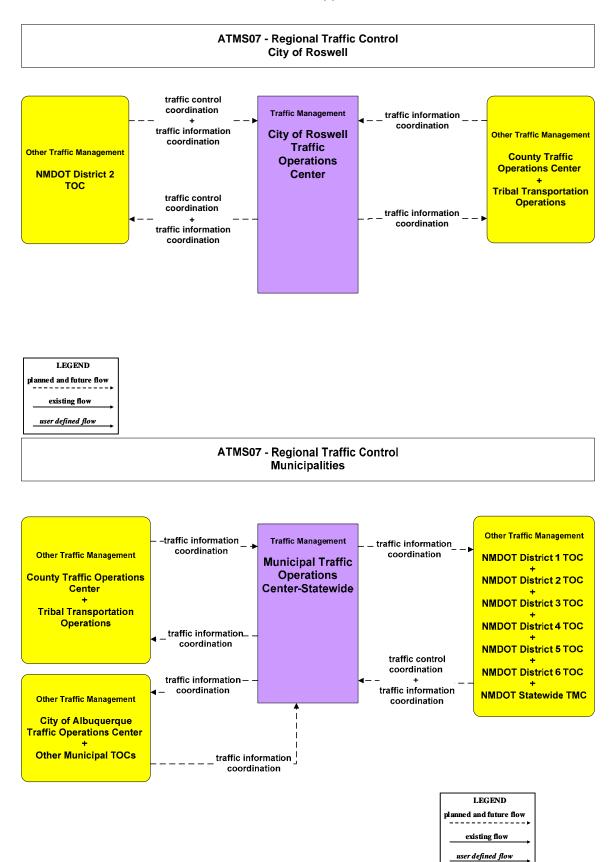






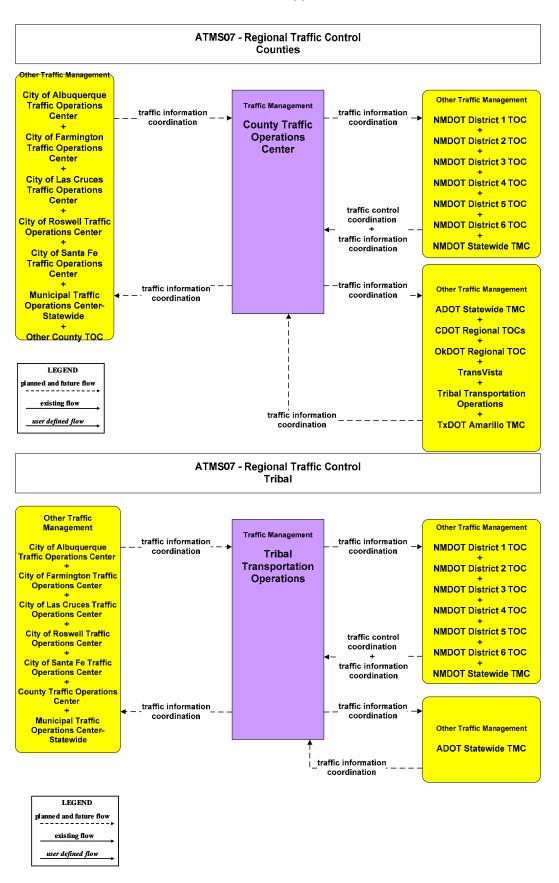
existing flow user defined flow















#### Incident Management Overview

ATMS08 Covered

Emergency Management ←→ Traffic Management Emergency Management ←→ Maintenance and Construction Traffic Management ←→ Maintenance and Construction Maintenance and Construction ←→ Maintenance and Construction Event Plans and Weather ←→ Traffic Management & Emergency Management (see MCs for M&C)

> <u>ATMS06, 03, 04, etc. Covered</u> Traffic Management  $\leftarrow \rightarrow$  Roadway

 $\frac{ATMS07 \ Covered}{Traffic \ Management} \leftarrow \rightarrow Traffic \ Management$ 

 $\frac{EM1 \ Covered}{Emergency \ Management} \leftarrow \rightarrow Emergency \ Management$ 

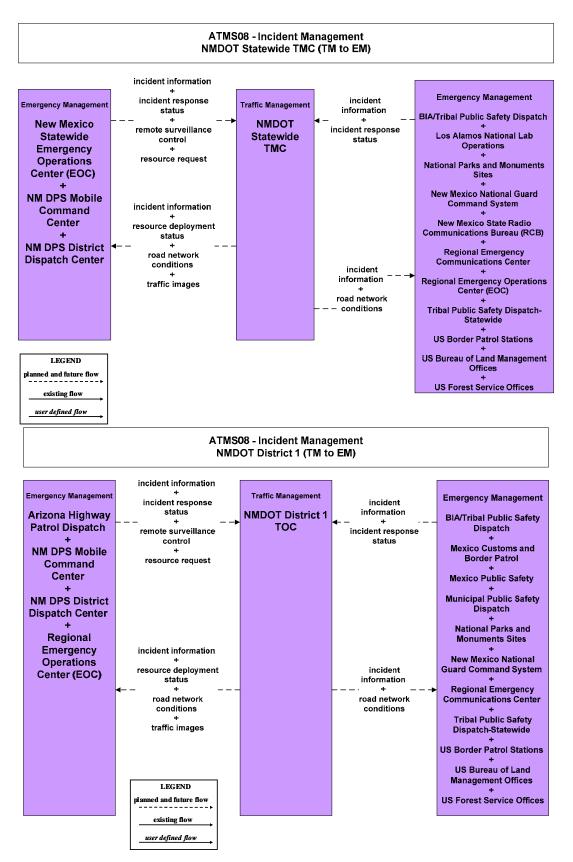
<u>EM2 Covered</u> Emergency Vehicle Preemption

ATMS08 - Incident Management

Traffic Management ← → Emergency Management

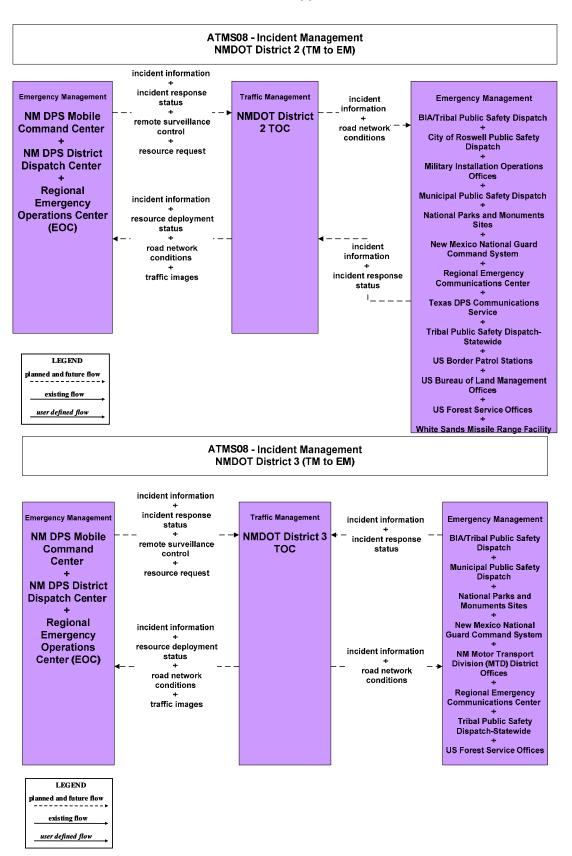






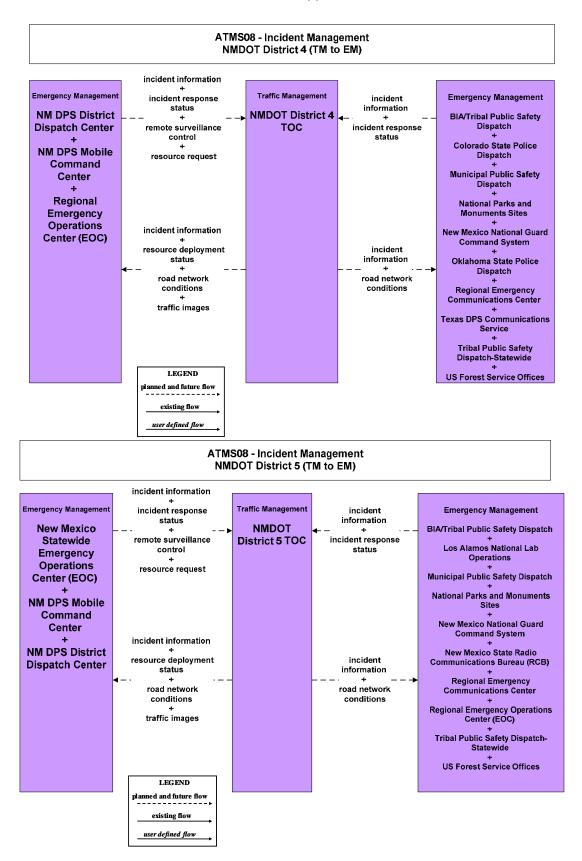






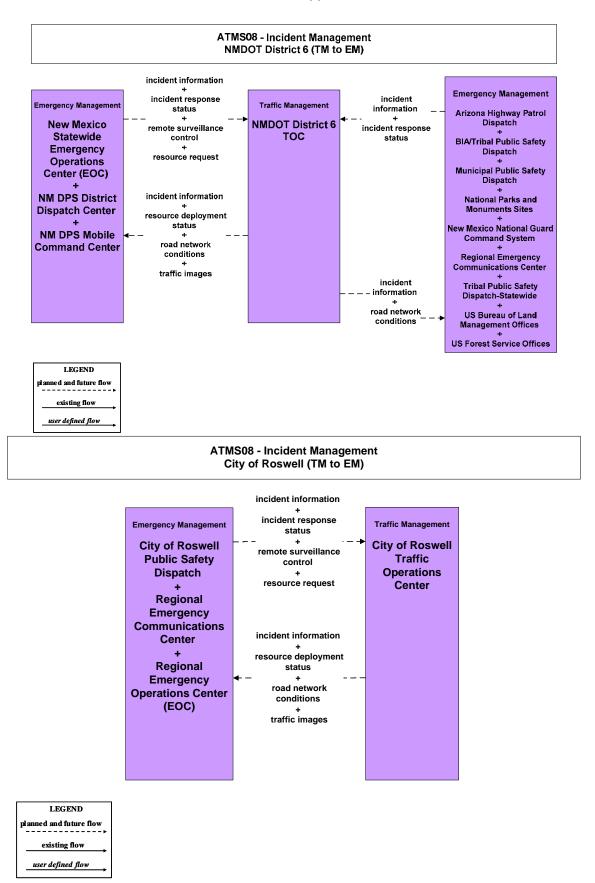






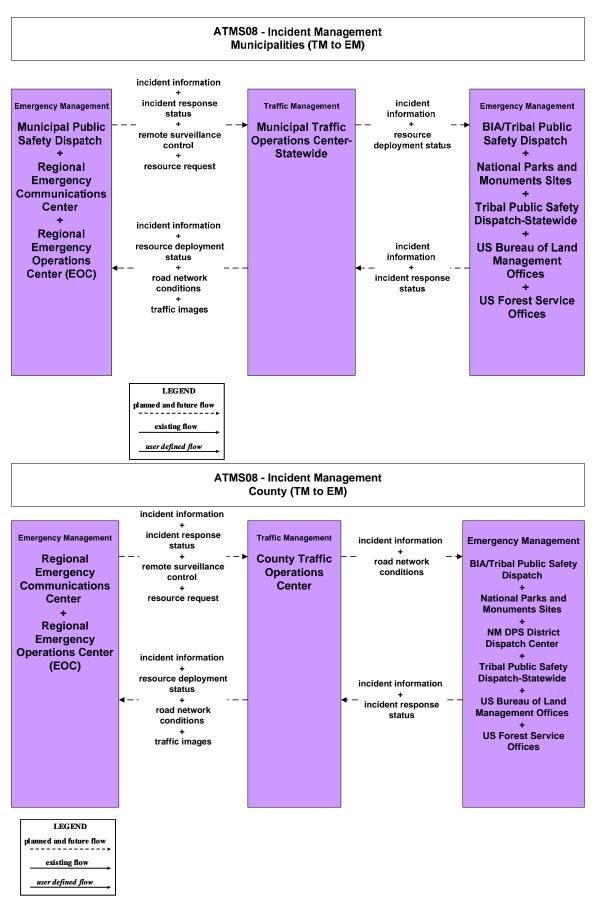




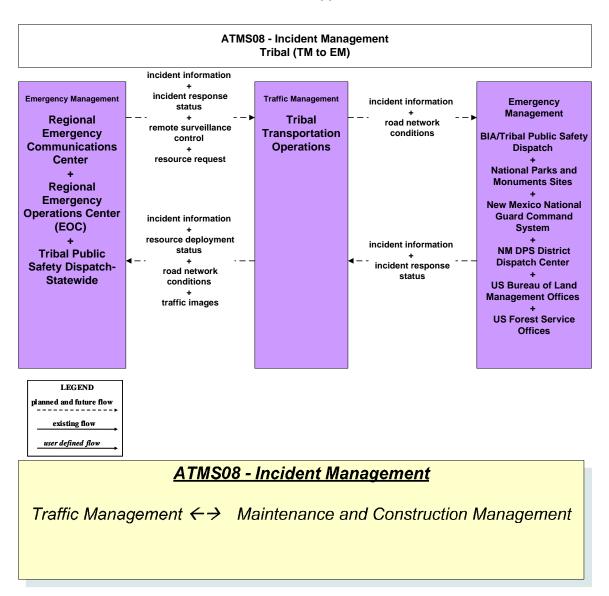






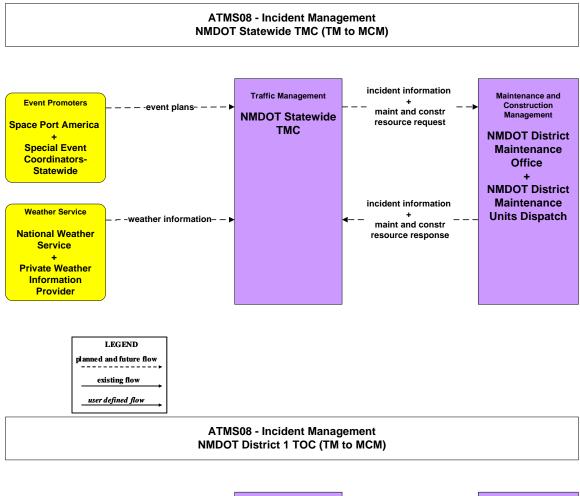


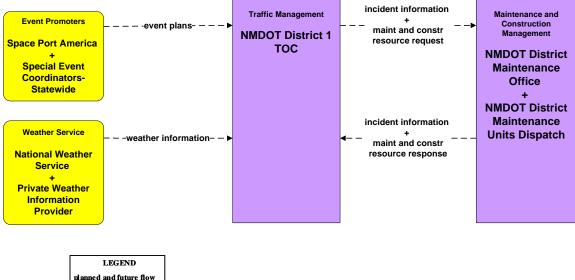








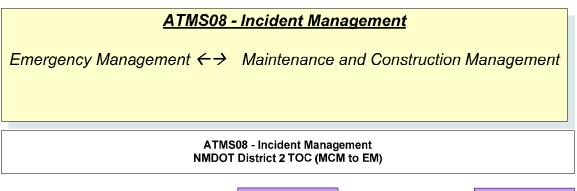


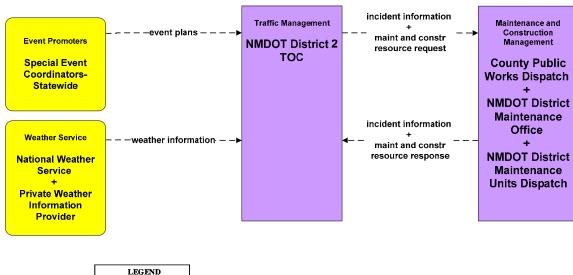










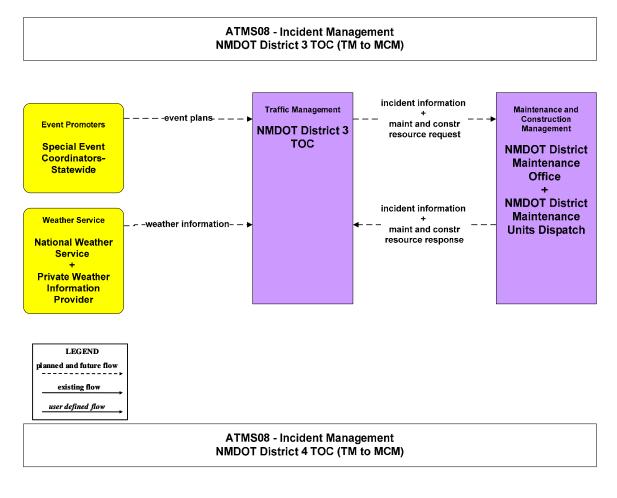


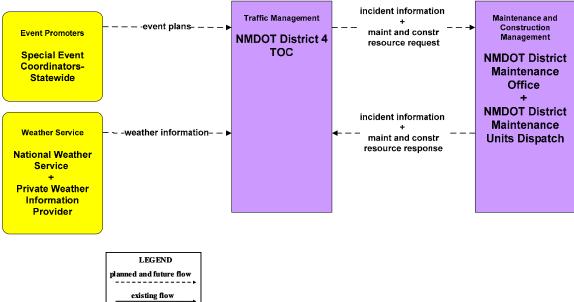
ned and future flow

existing flow user defined flow

pl a



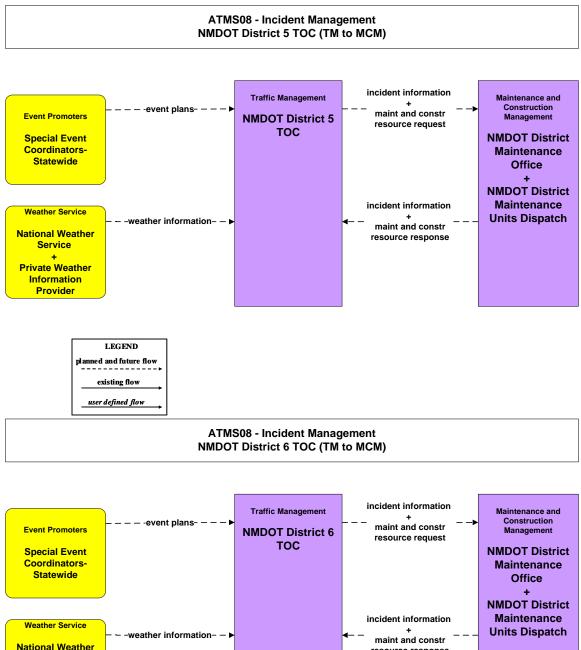






user defined flow

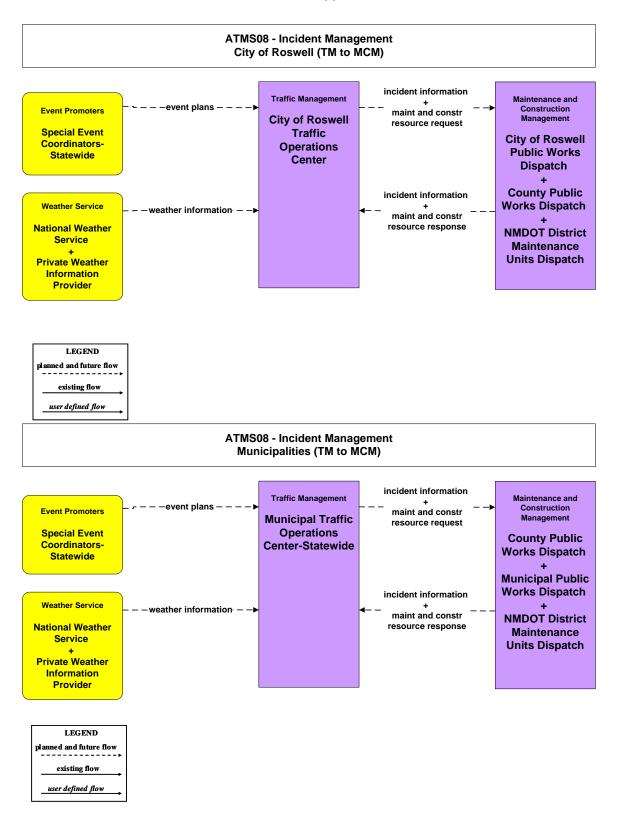






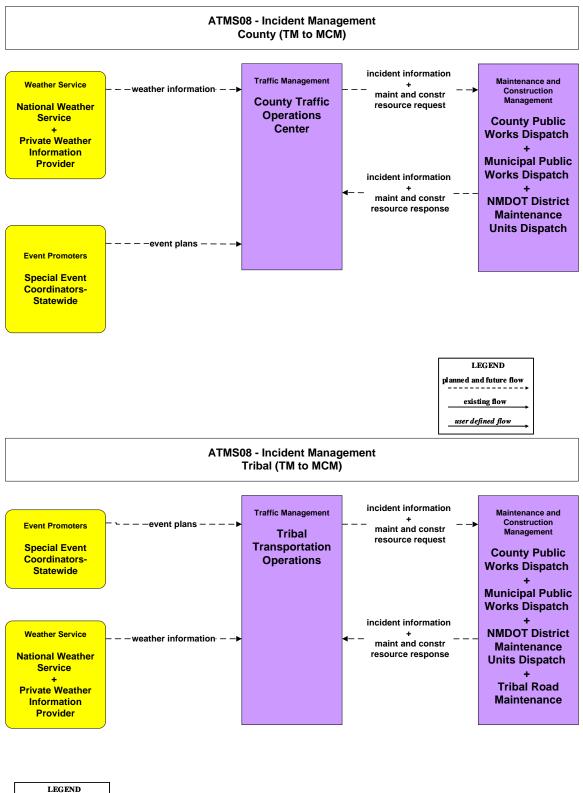
existing flow user defined flow







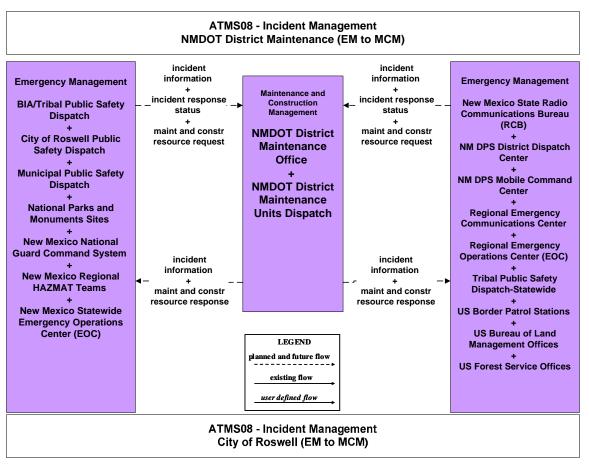


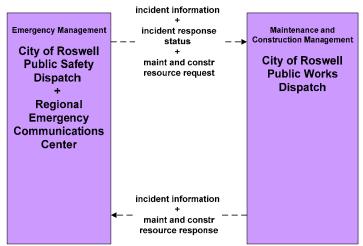








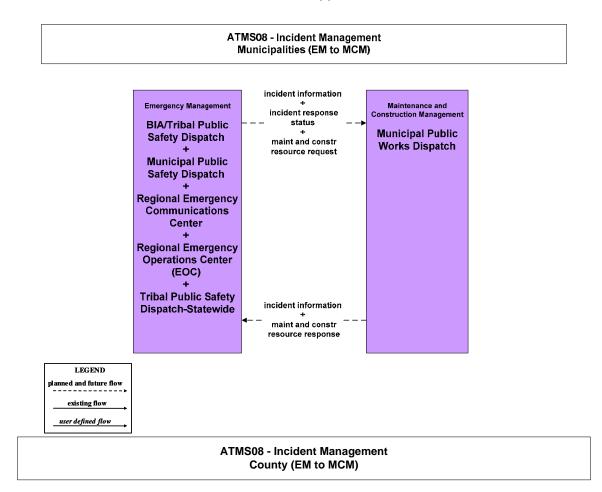


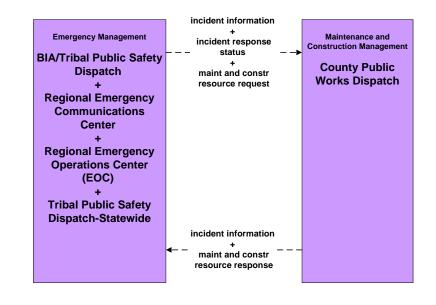








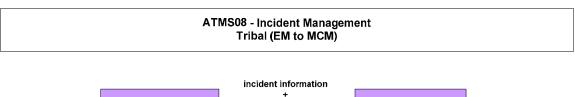


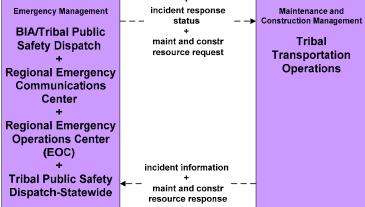


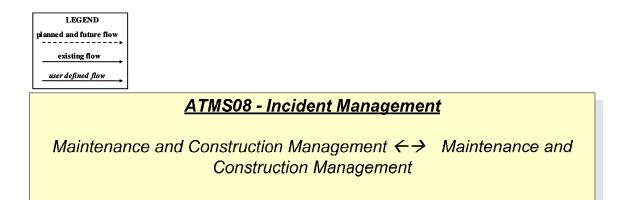








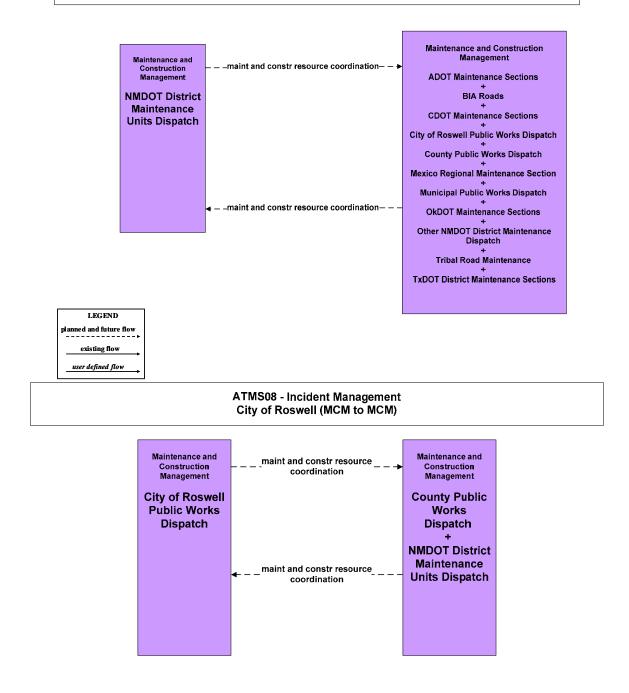








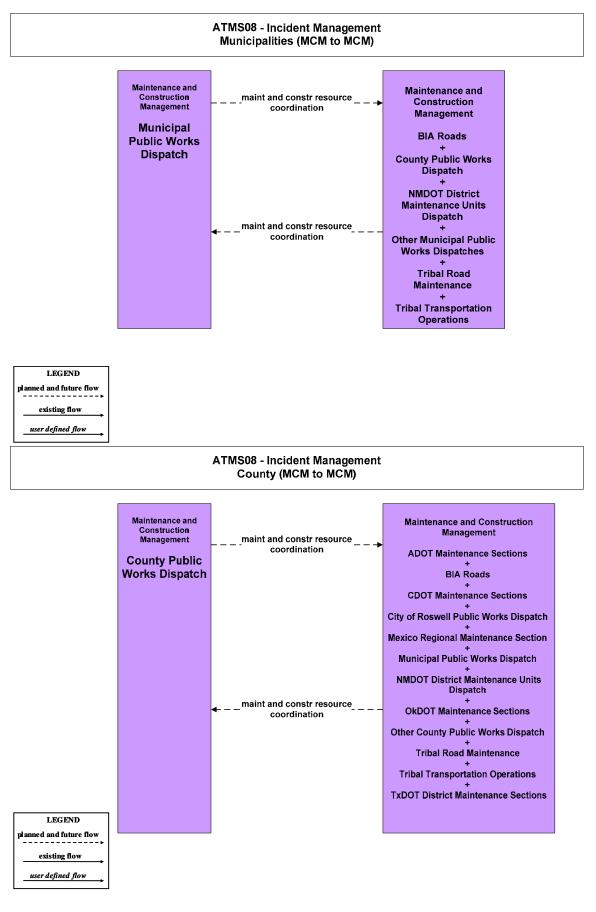
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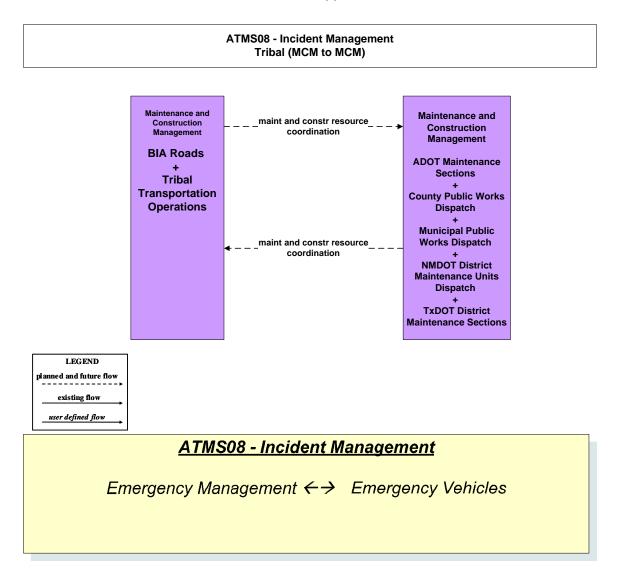






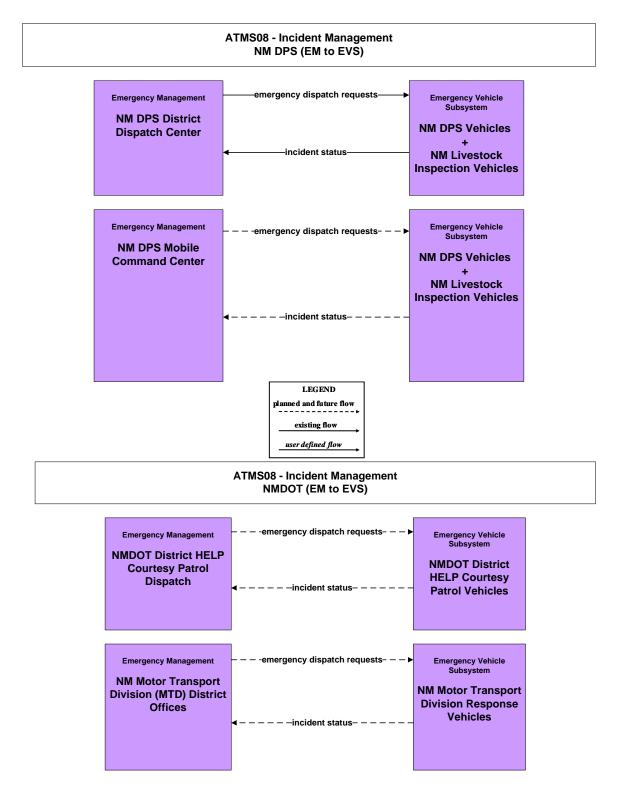








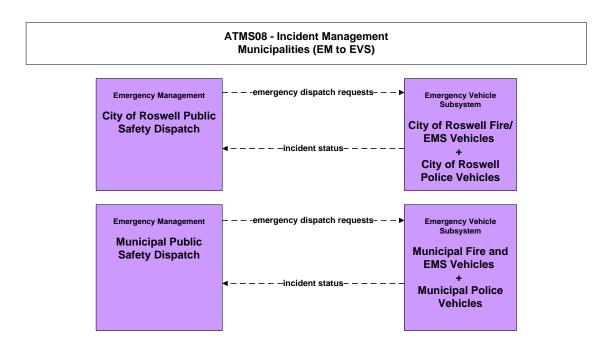




LEGEND
planned and future flow
existing flow
_user defined flow

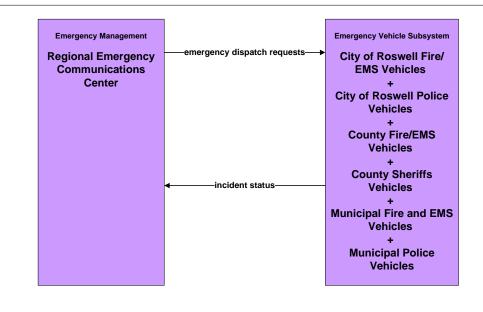








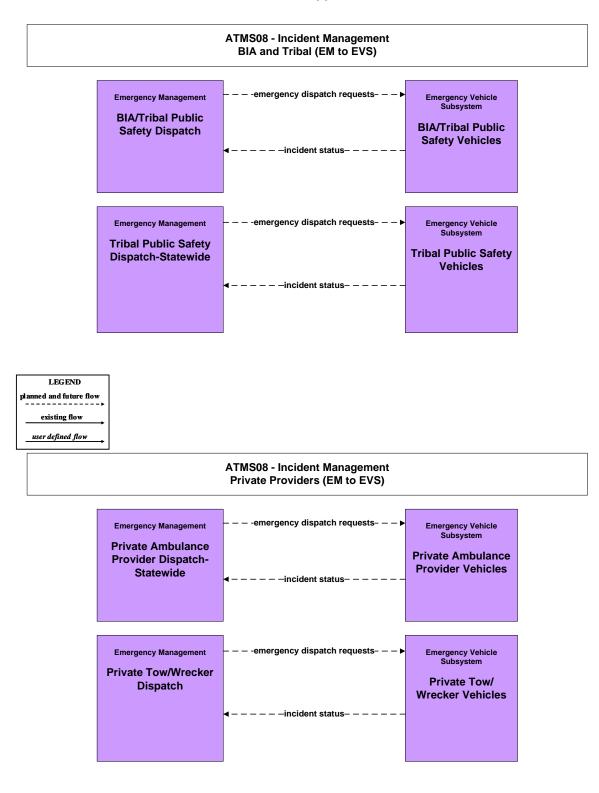
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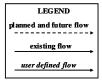






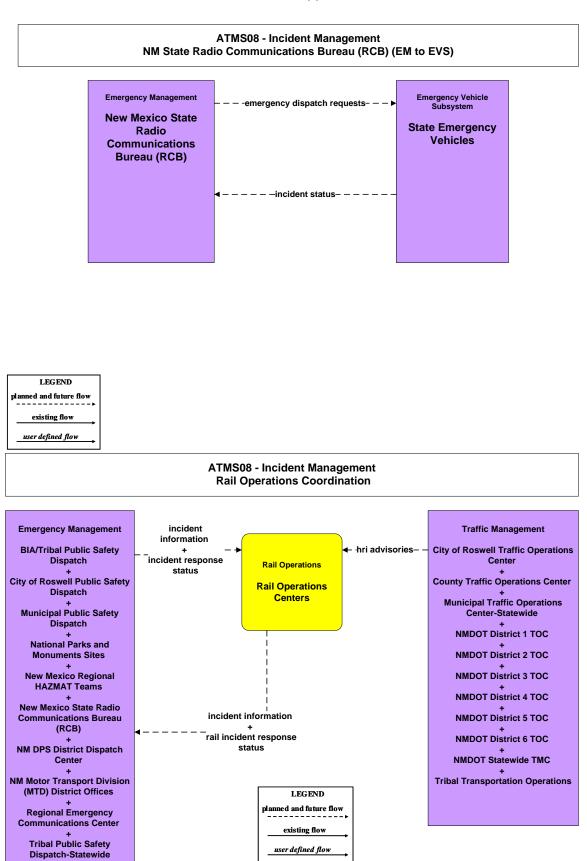






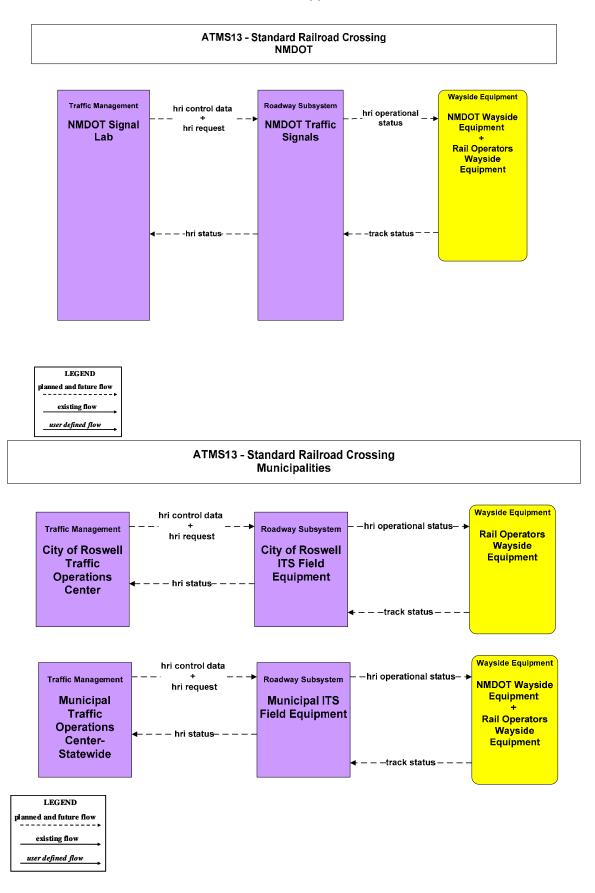






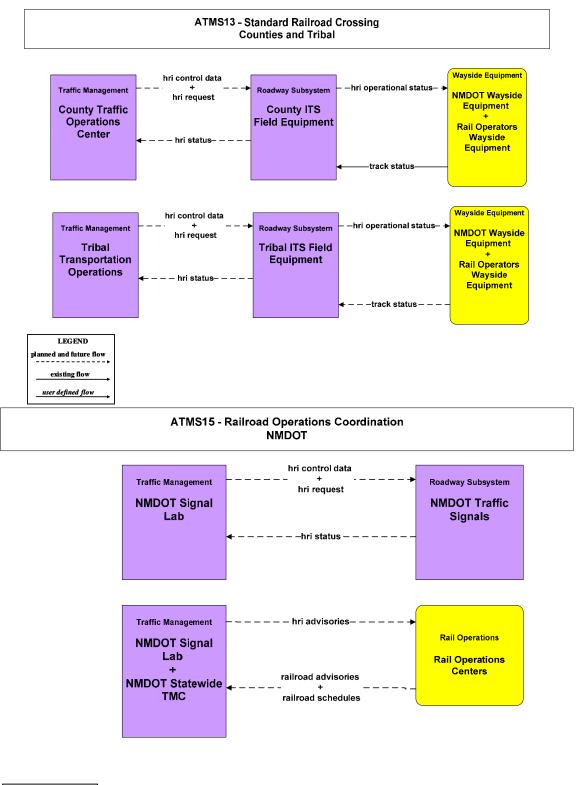








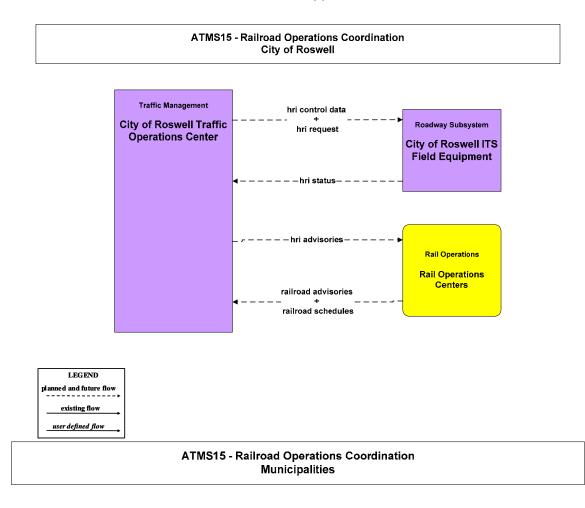


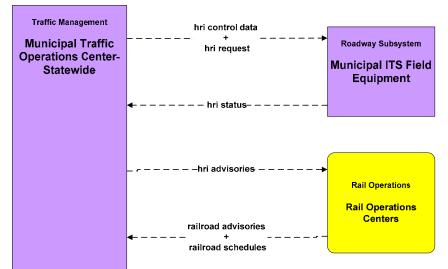


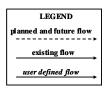






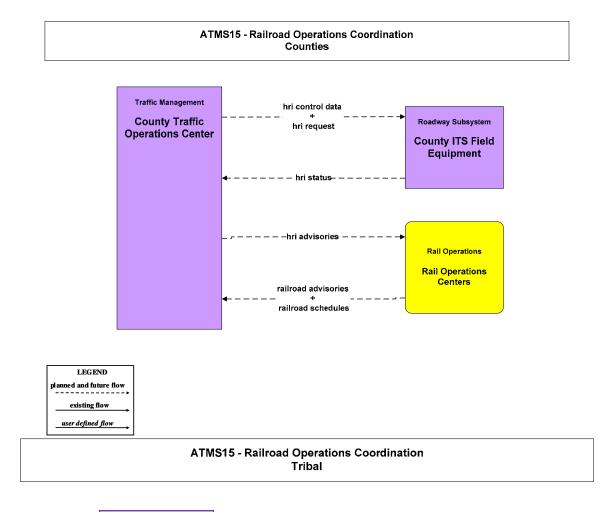


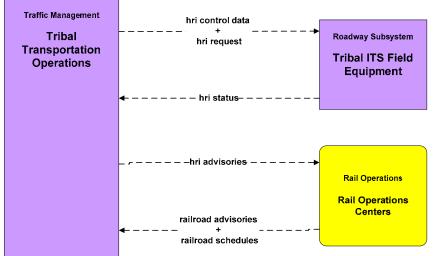


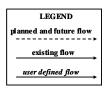






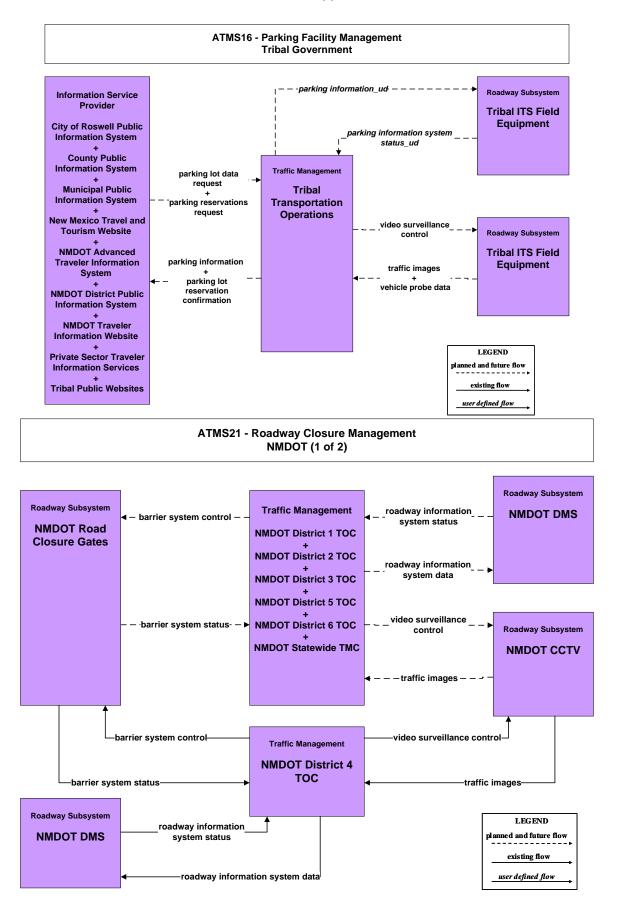






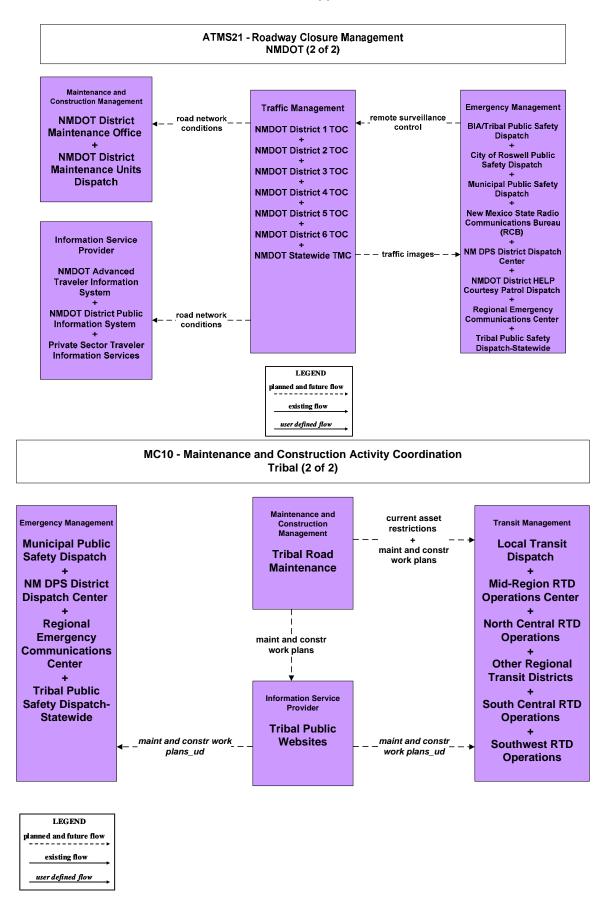










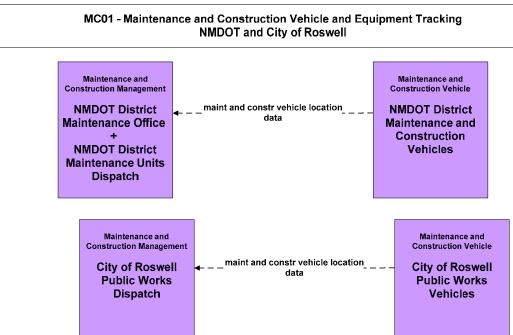




# **New Mexico Statewide ITS Architecture**

### **Customized Market Package Diagrams**

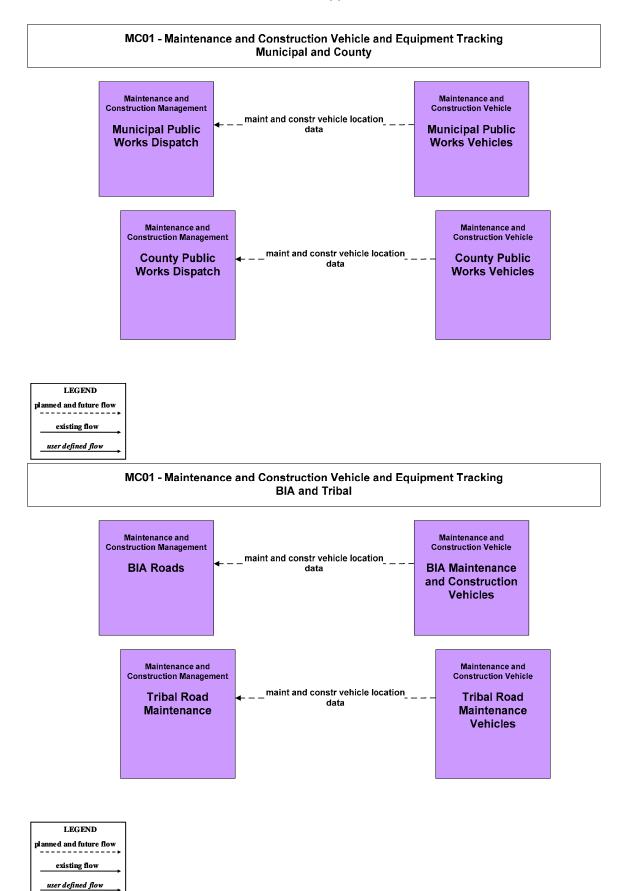
# **Maintenance and Construction (MC)**



LEGEND planned and future flow existing flow user defined flow



#### Version 1.00

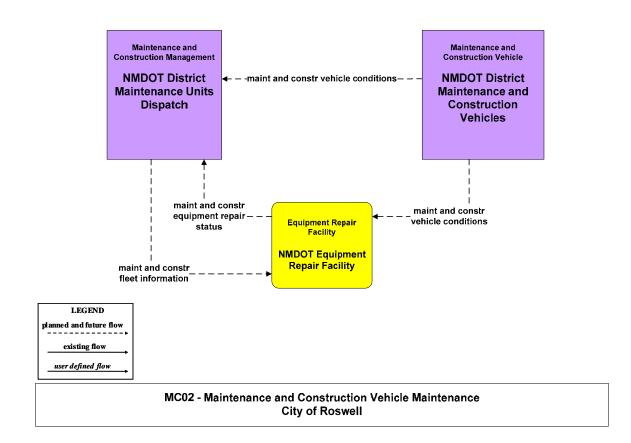


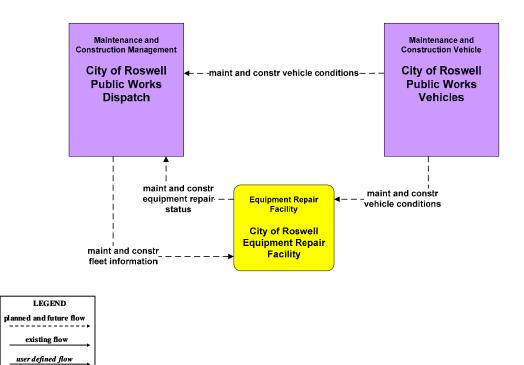


TRANSPORTATION





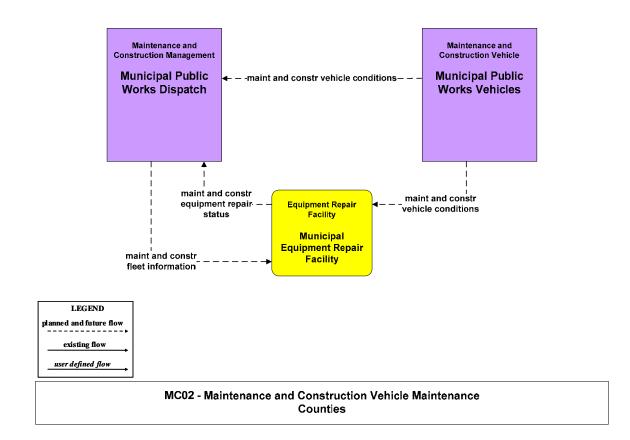


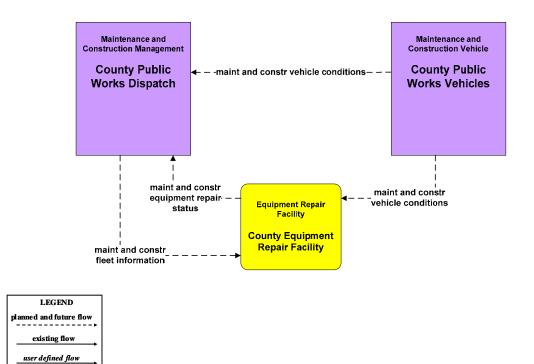








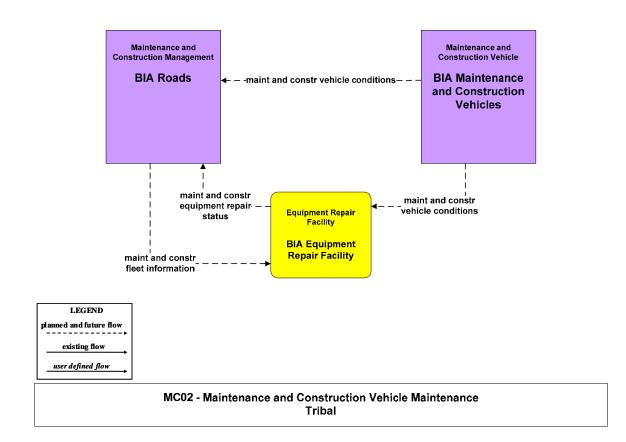


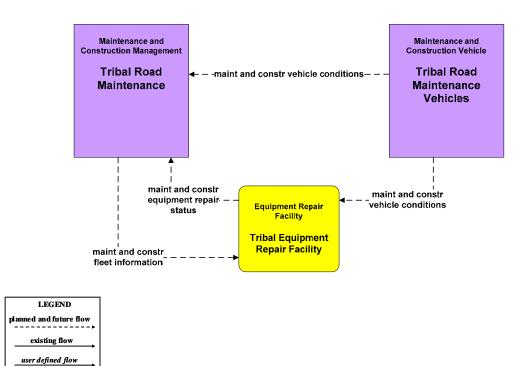






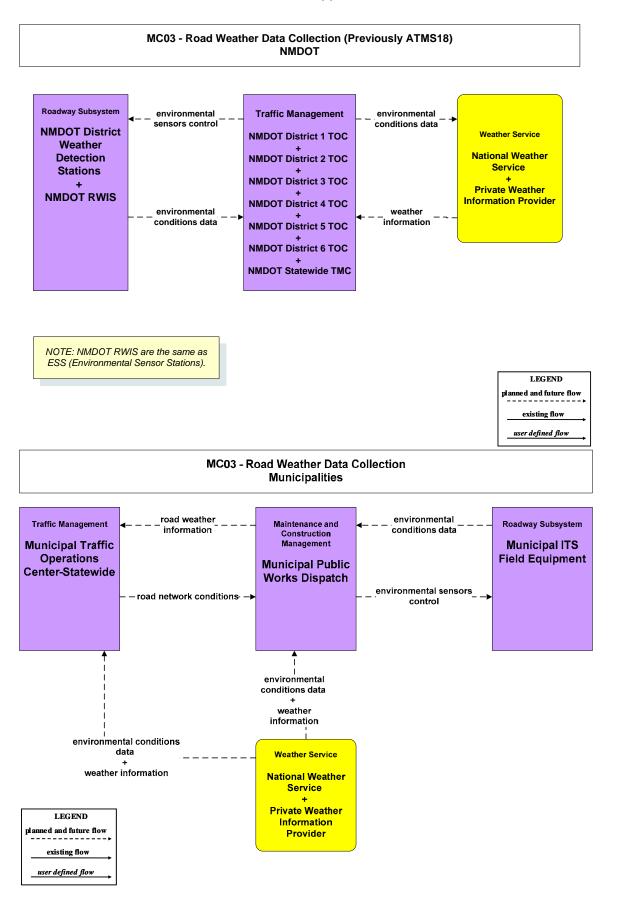






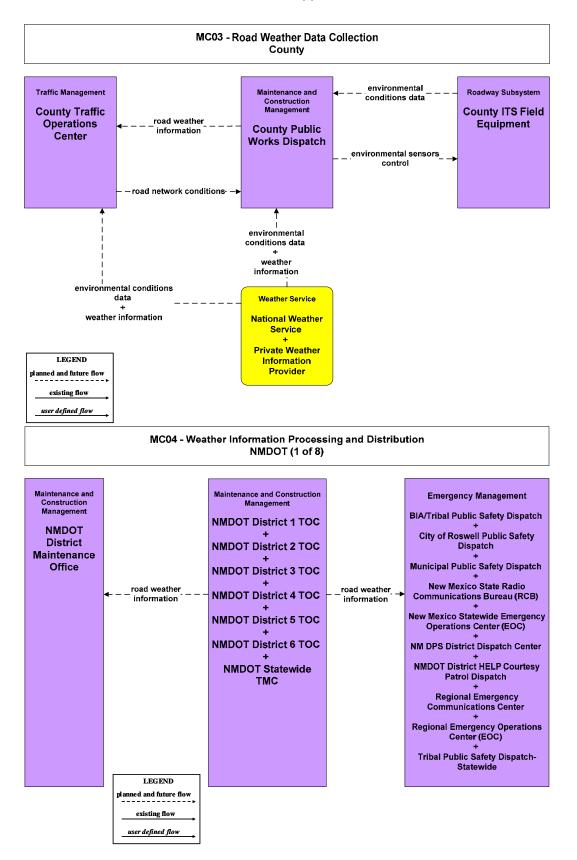






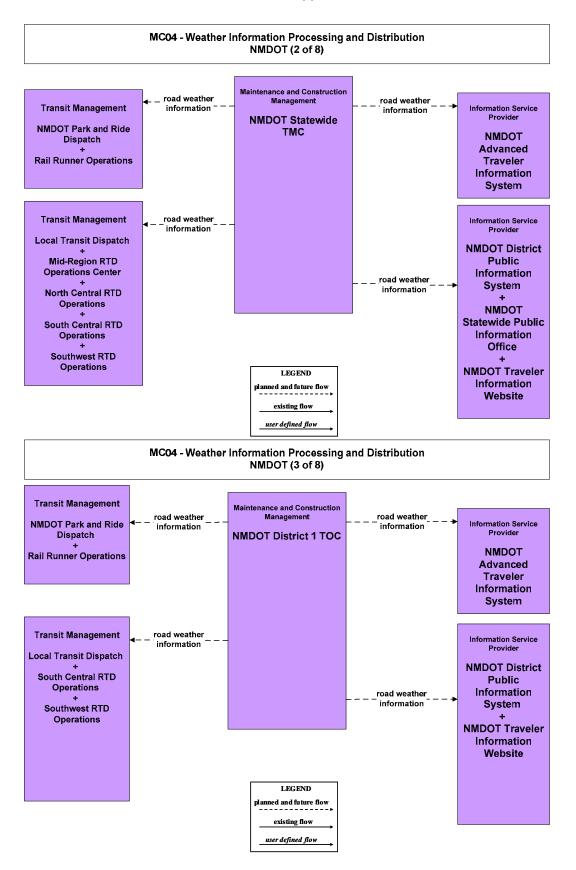






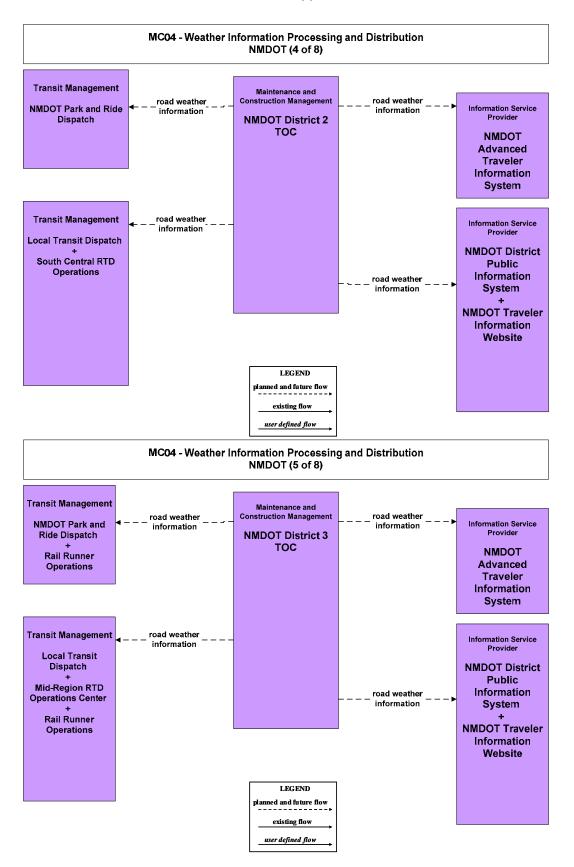






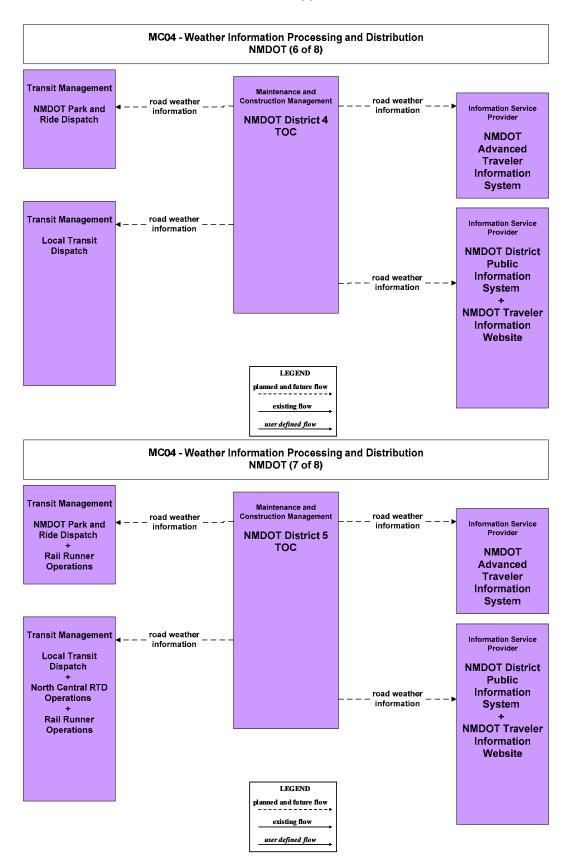






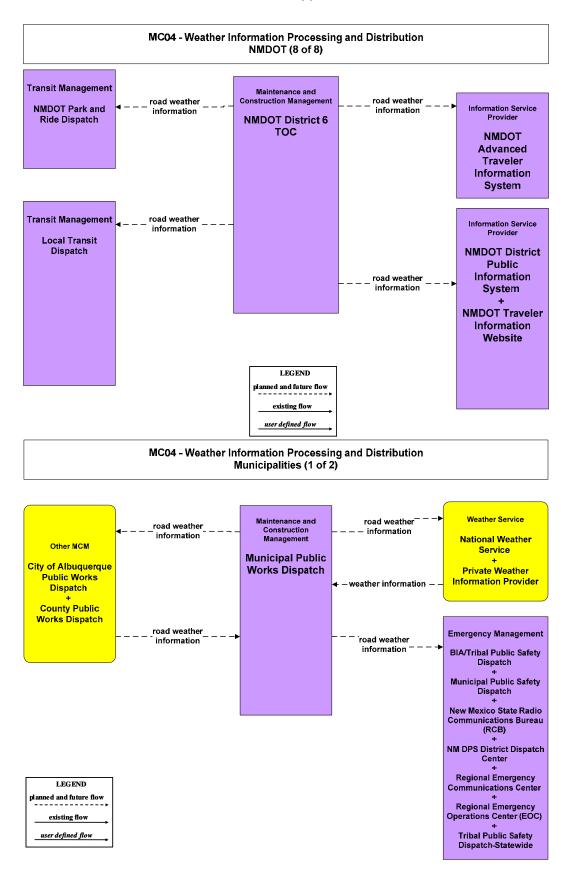






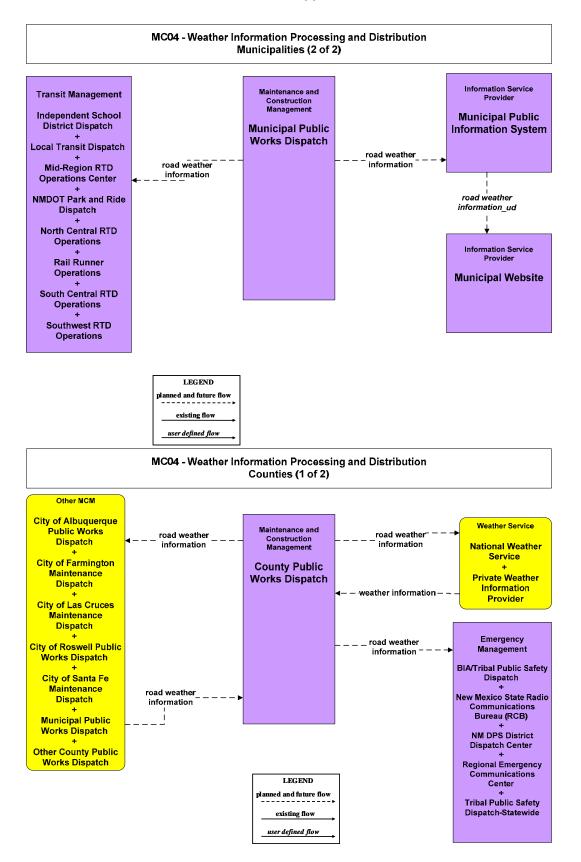






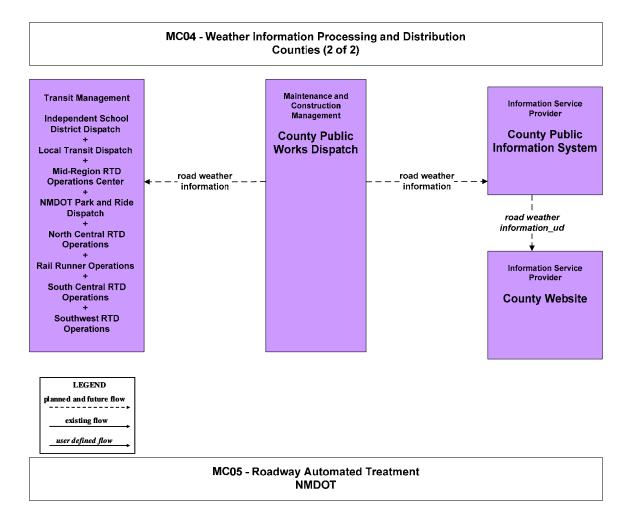


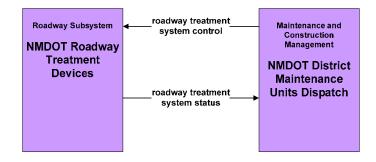








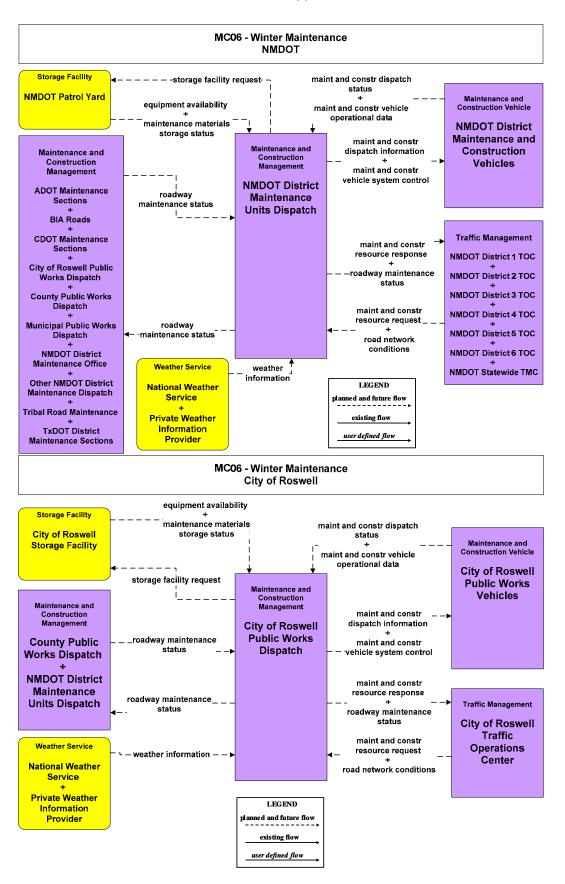






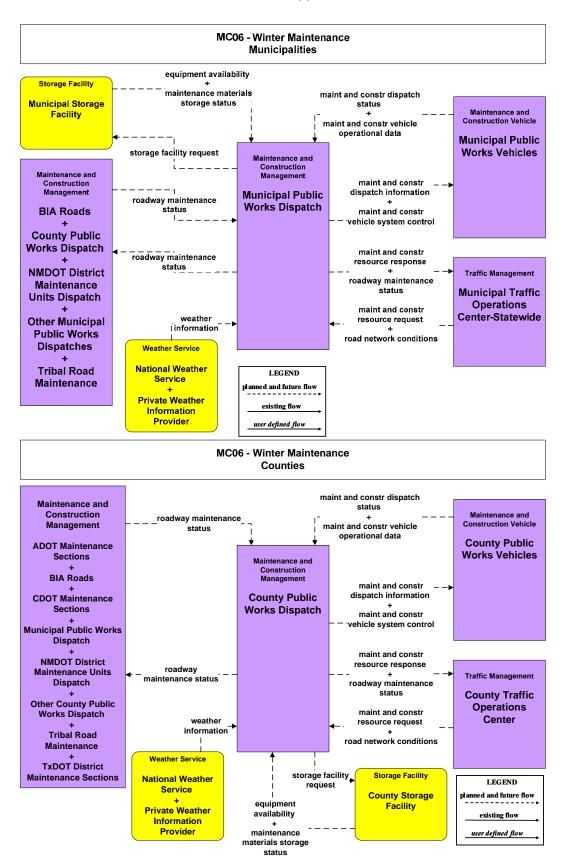






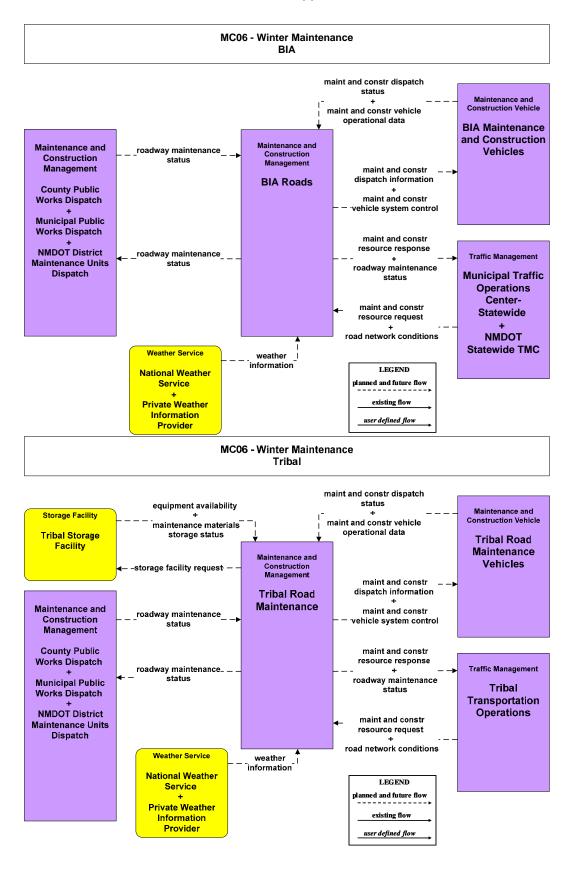






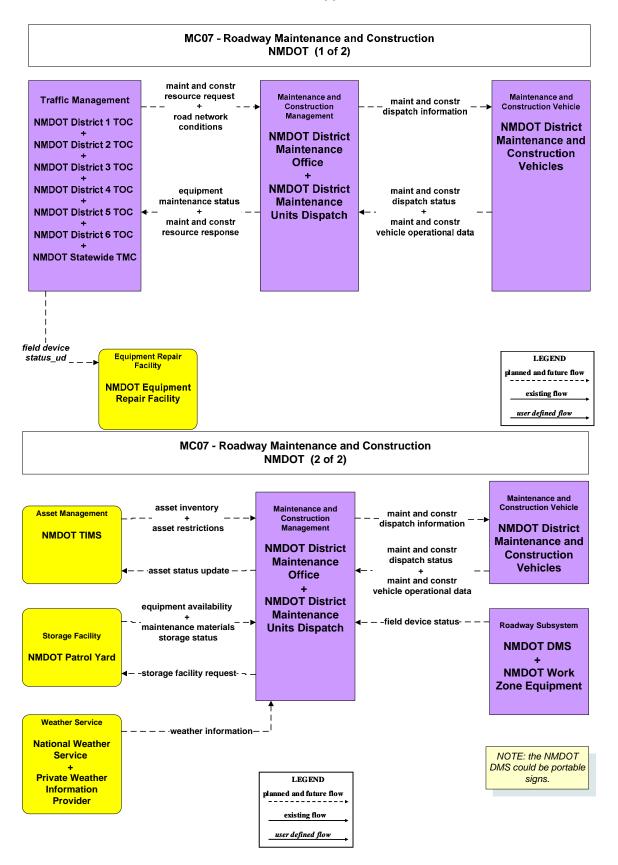






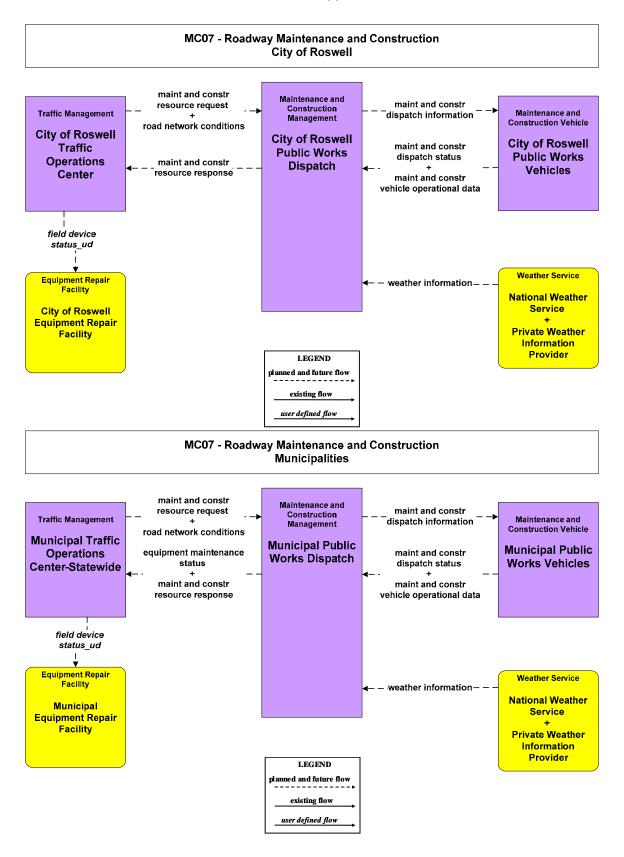






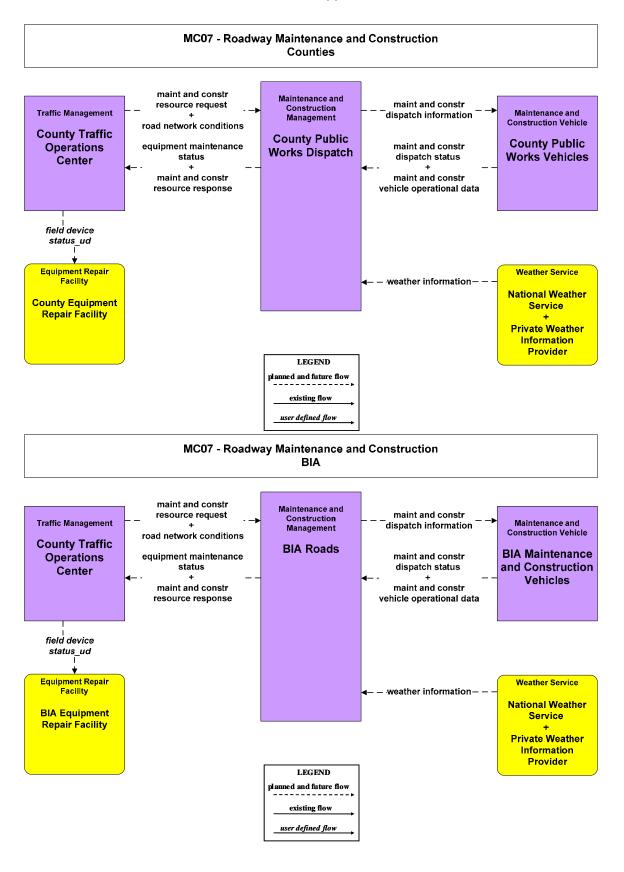






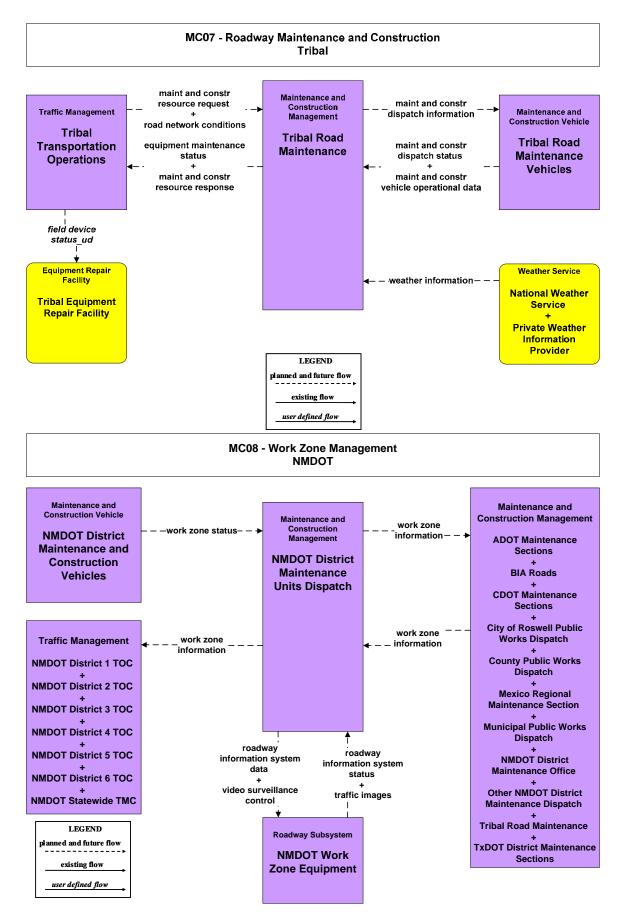




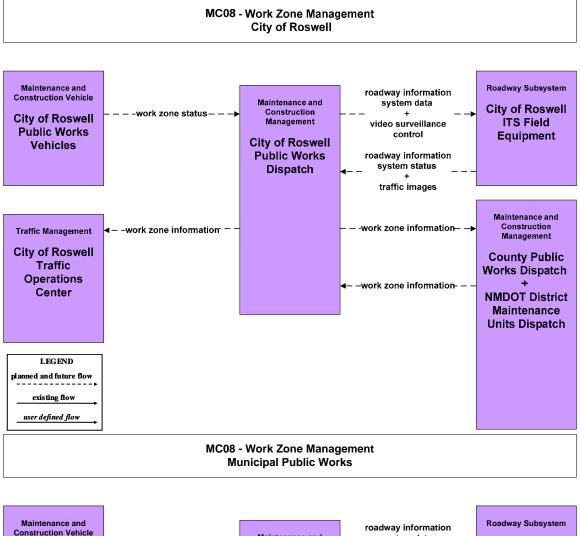


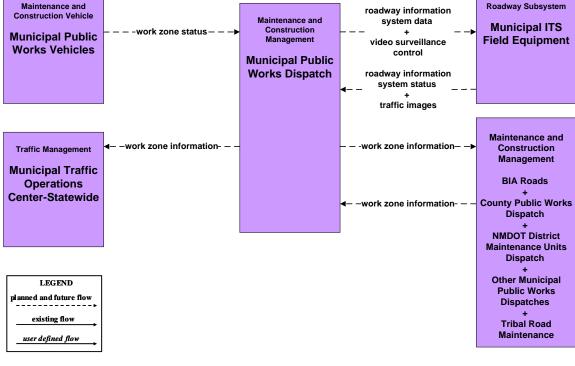






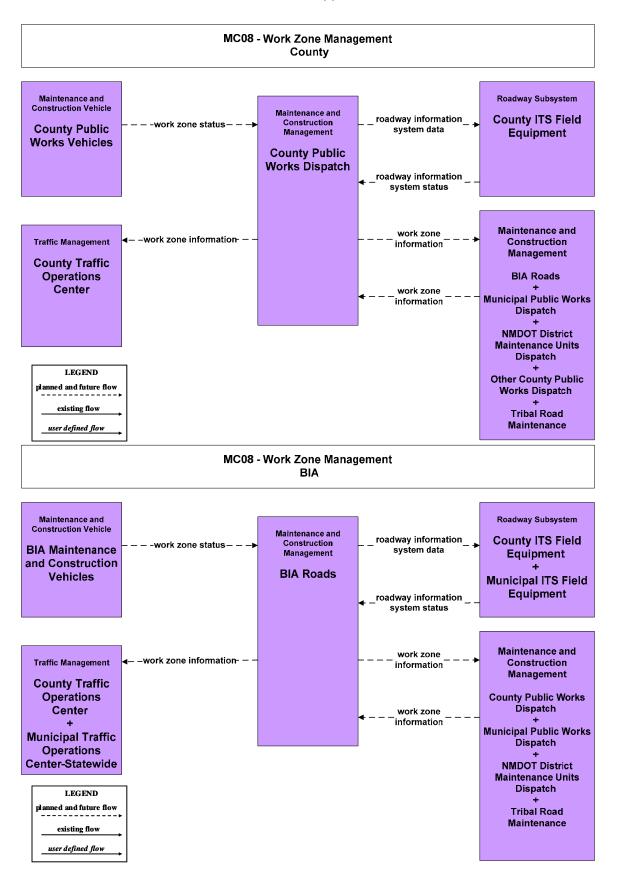




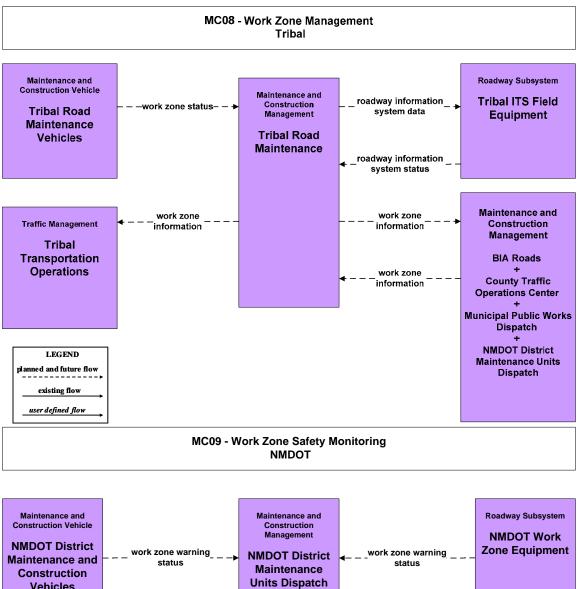


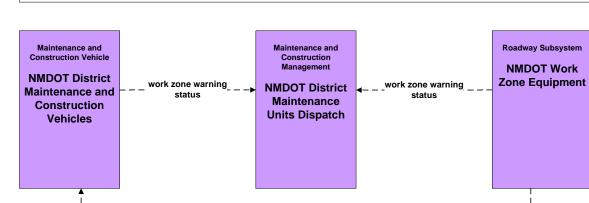










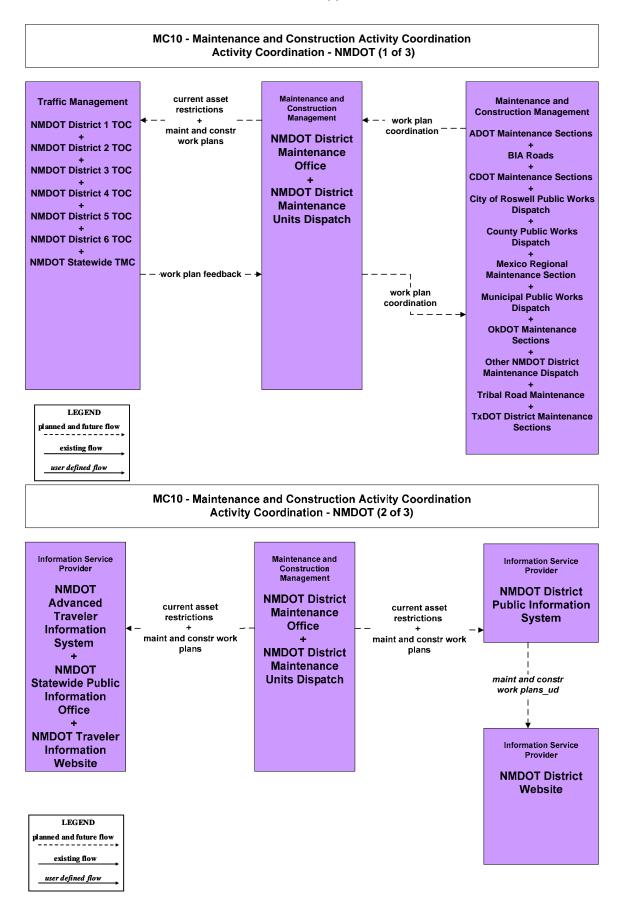


- -work zone warning notification-

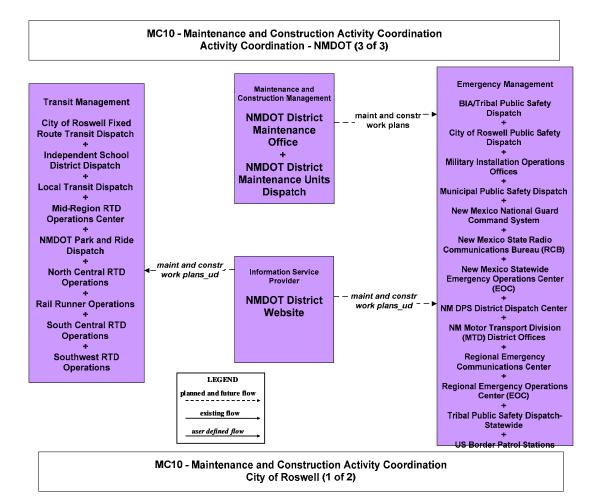
LEGEND
planned and future flow
existing flow
user defined flow

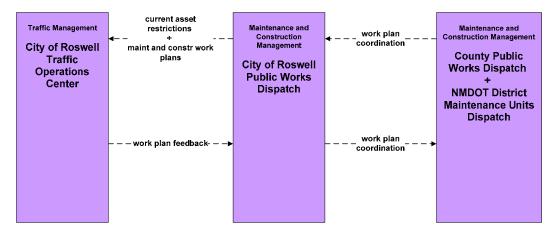








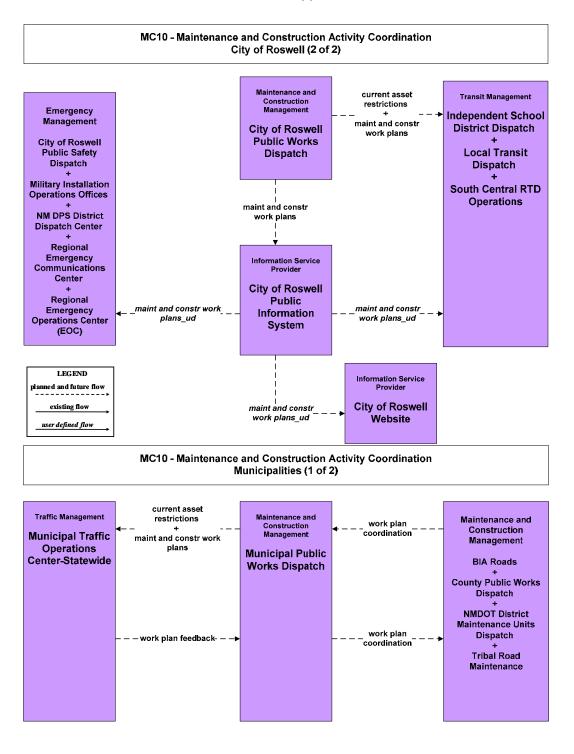








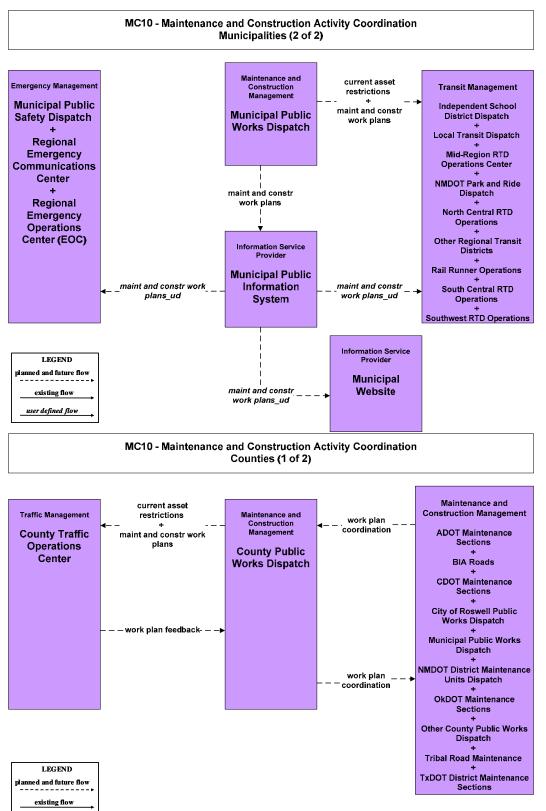








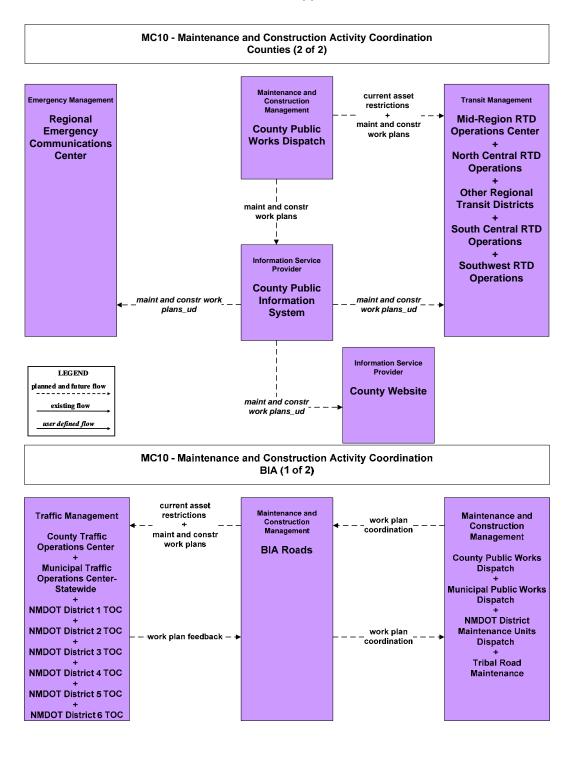




user defined flow



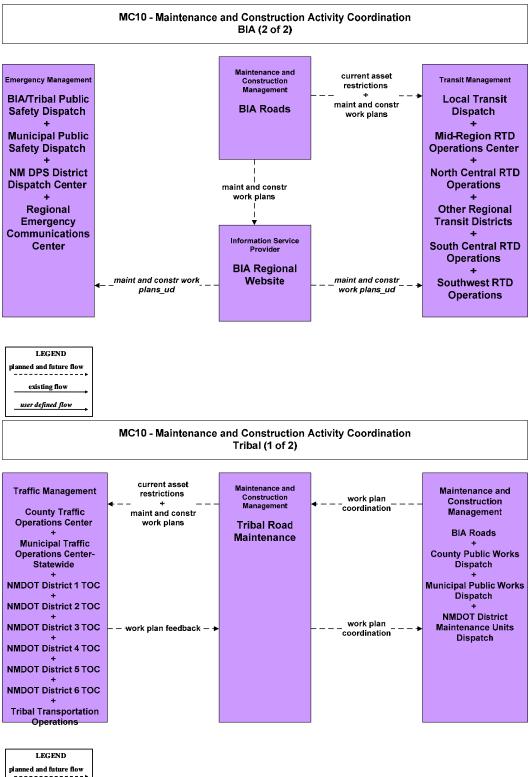








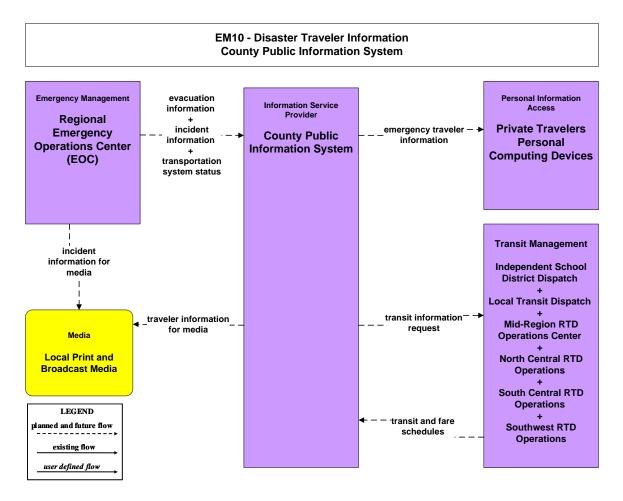












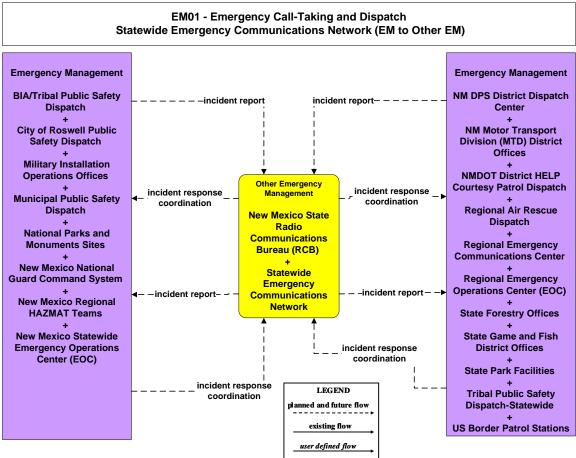




### **New Mexico Statewide ITS Architecture**

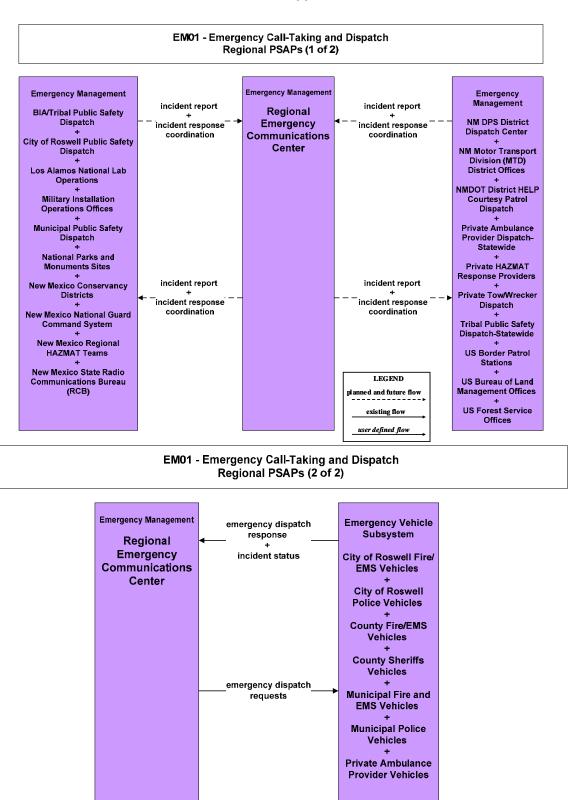
## **Customized Market Package Diagrams**

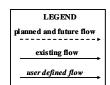
# Emergency Management (EM)





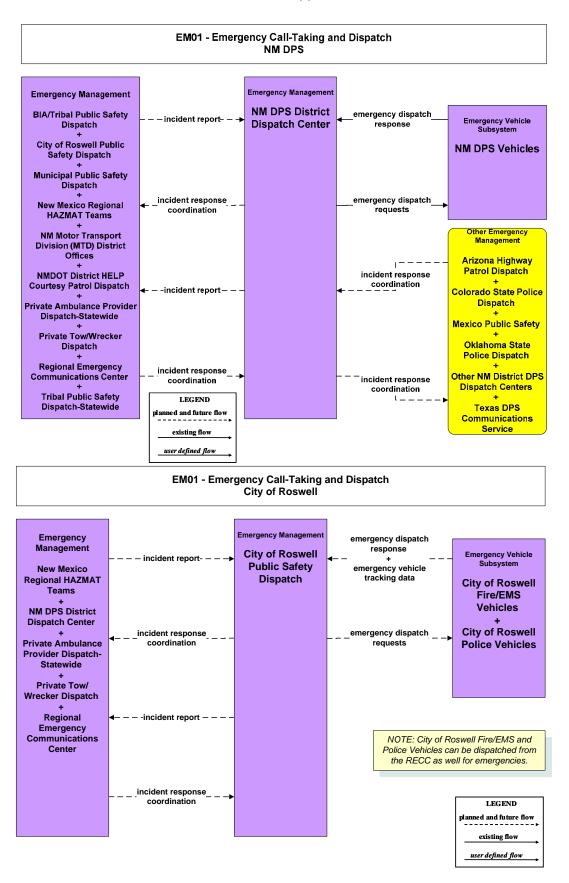






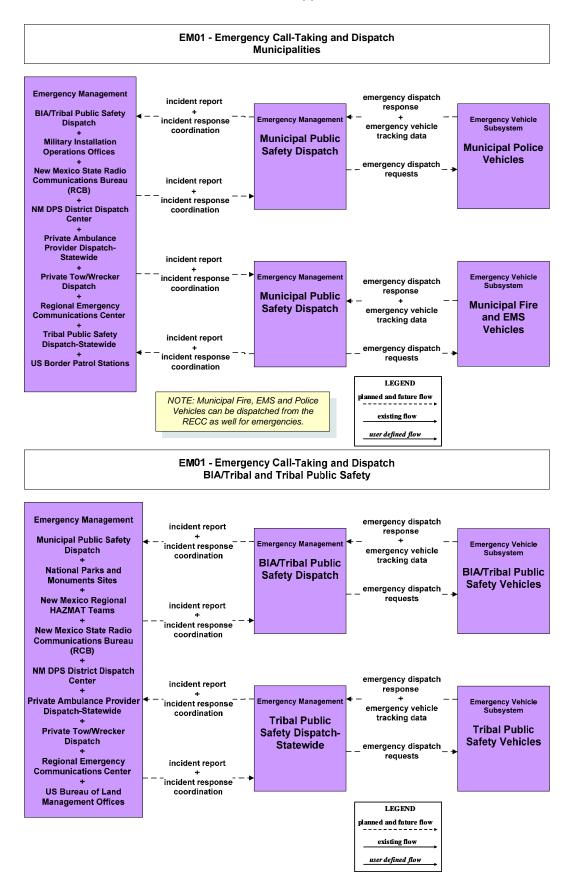






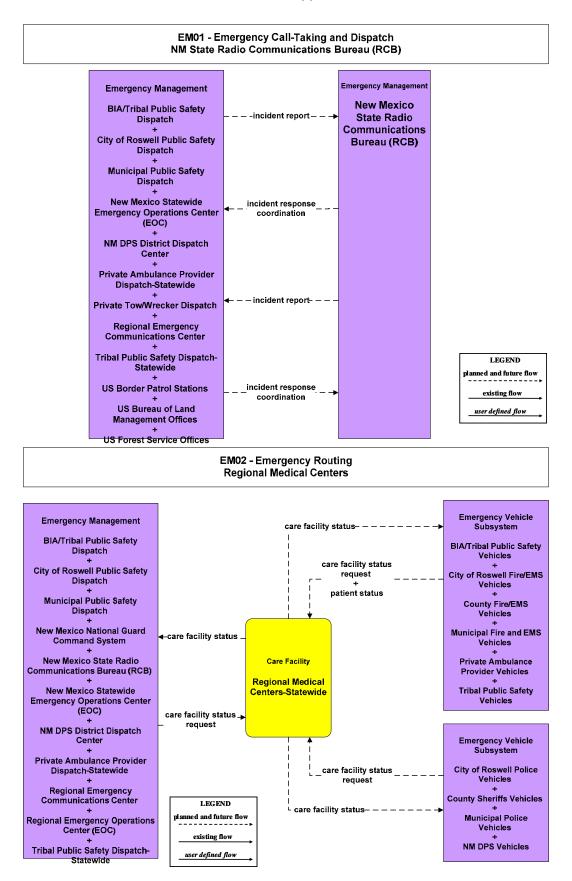






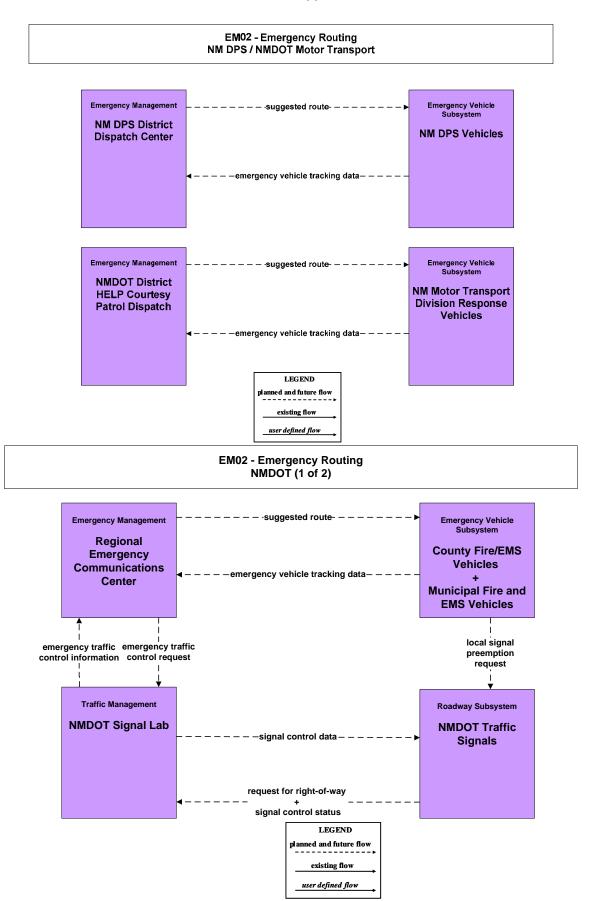






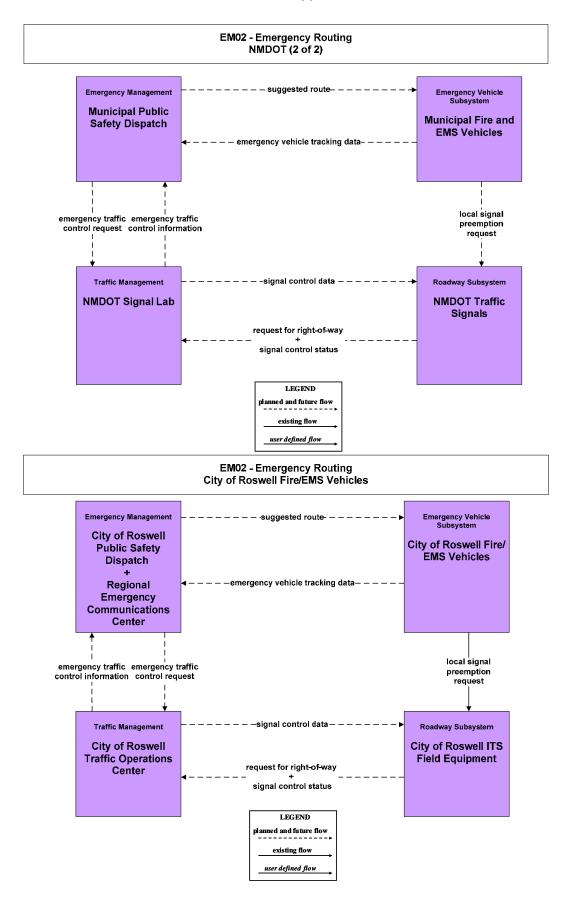






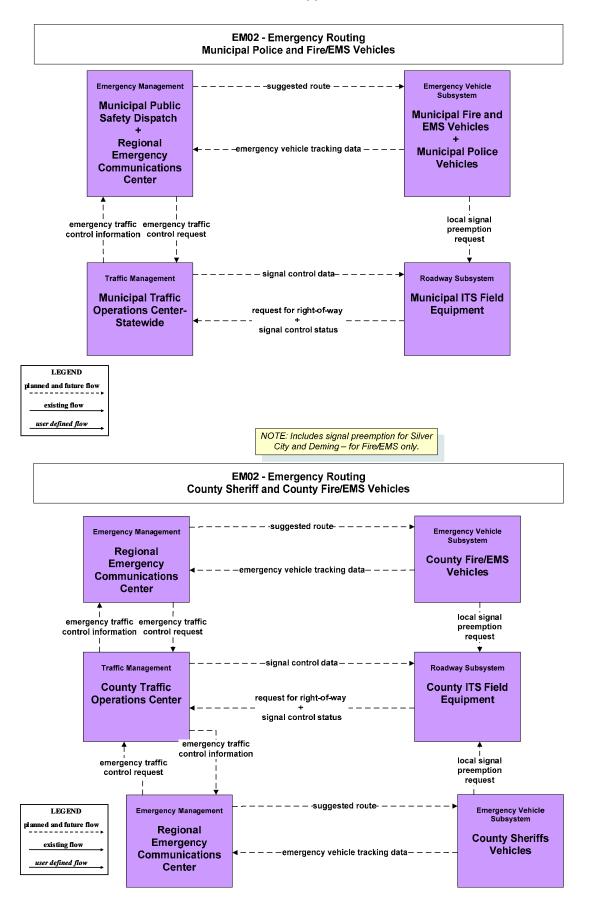






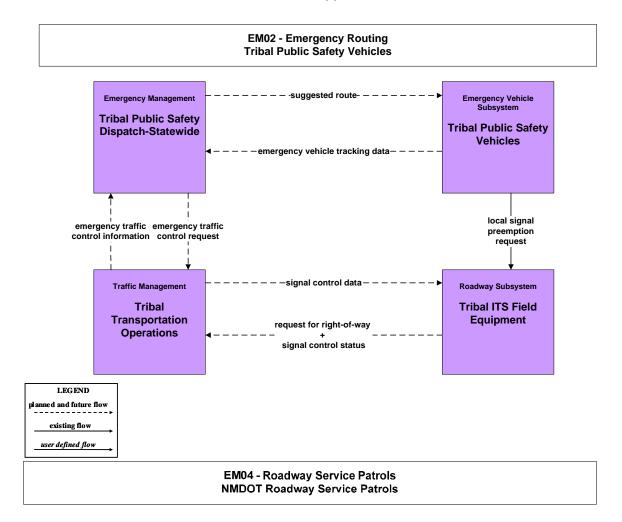


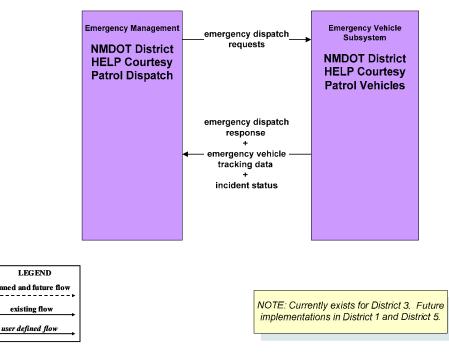








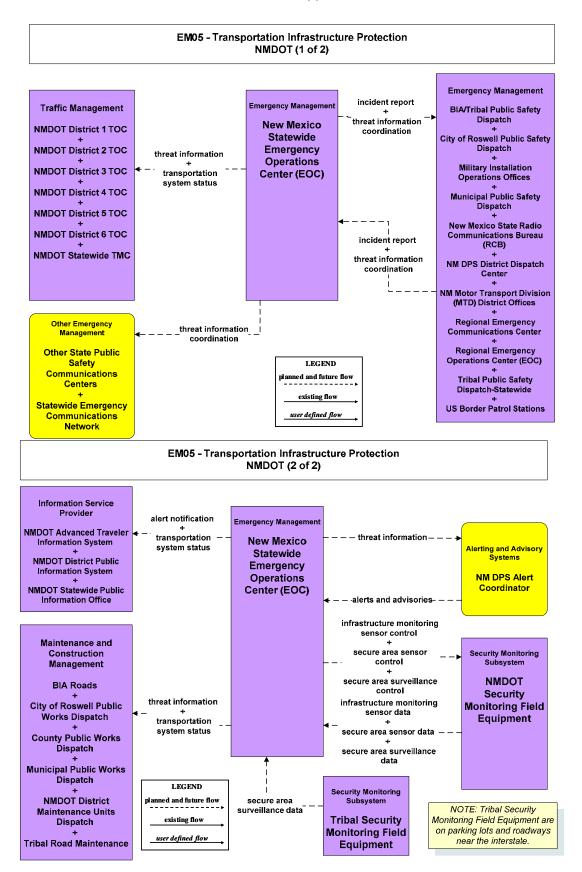






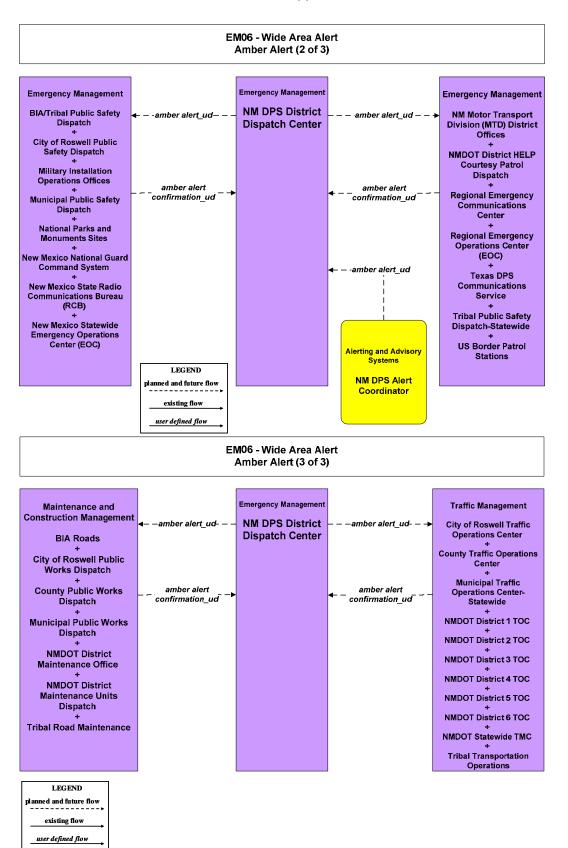
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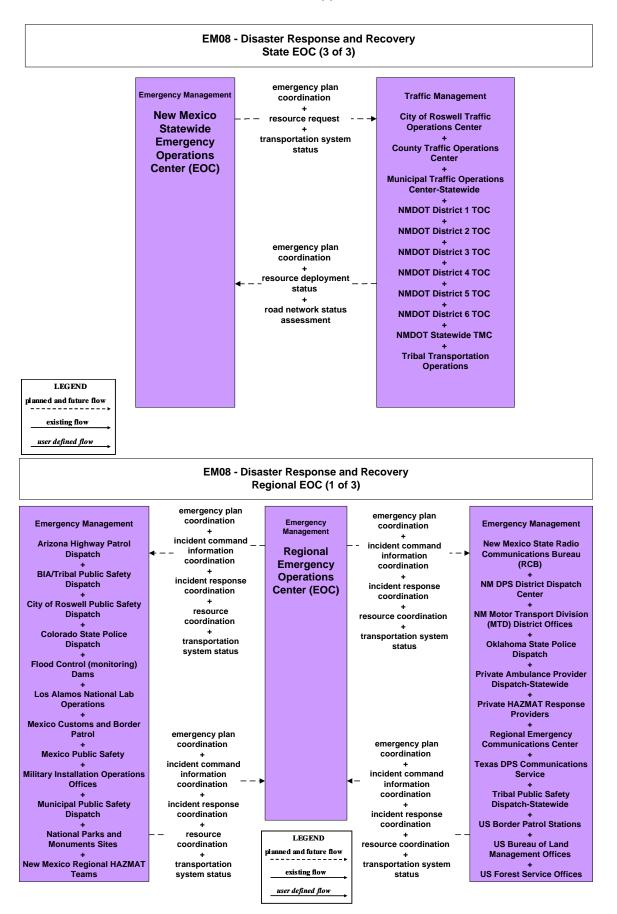




		ster Response a State EOC (1 of 3	-	
Emergency Management	emergency plan coordination	Emergency Management	emergency plan coordination	Emergency Management
Arizona Highway Patrol Dispatch	+ incident command  − − ◀ ─ ⁻	New Mexico	+ − - incident command information ►	New Mexico State Radio Communications Bureau (RCB)
+ BIA/Tribal Public Safety Dispatch	coordination + incident response	Statewide Emergency Operations	coordination + incident response	NM DPS District Dispatch Center
City of Roswell Public Safety Dispatch +	coordination + resource coordination	Center (EOC)	coordination + resource coordination	+ NM Motor Transport Division (MTD) District
Flood Control (monitoring) Dams +	transportation system status		transportation system status	Offices + Oklahoma State Police Dispatch
Los Alamos National Lab Operations +				Regional Emergency Communications Center
Mexico Public Safety + Military Installation				Regional Emergency Operations Center (EOC)
Operations Offices + Municipal Public Safety	emergency plan		emergency plan	Texas DPS Communications Service
Dispatch + National Parks and	coordination + incident command		coordination + incident command	+ Tribal Public Safety Dispatch-Statewide
Monuments Sites + New Mexico Regional	information ─► coordination +		<ul> <li>information</li> <li>coordination</li> </ul>	+ US Border Patrol Stations +
HAZMAT Teams	incident response coordination +		incident response coordination	US Bureau of Land Management Offices +
	resource coordination + transportation system	LEGEND planned and future flow	resource coordination	US Forest Service Offices
	status	existing flow	transportation system status	
		ster Response a State EOC (2 of 3	3)	
	coordination +		emergency plan coordination +	••
Maintenance and Construction Management	incident response status ←───+ ·───	Emergency Management	incident response status + maint and constr	Maintenance and Construction Management
ADOT Maintenance	maint and constr resource request +	New Mexico Statewide Emergency	resource request + transportation system	BIA Roads +
Sections + CDOT Maintenance Sections	transportation system status	Operations Center (EOC)	status	City of Roswell Public Works Dispatch
+ Mexico Regional Maintenance Section				+ County Public Works Dispatch
+ NMDOT District Maintenance Office	emergency plan coordination + maint and constr		emergency plan coordination + maint and constr	+ Municipal Public
+ NMDOT District Maintenance Units Dispatch	resource response → + road network status		← resource response · + road network status	- – Works Dispatch + Tribal Road
+ OkDOT Maintenance Sections	assessment		assessment	Maintenance
+ TxDOT District Maintenance Sections	[]			
	LEGEND planned and future flow 		NOTE: Maint requests of geographic region go throu.	igh the State
	existing flow		geographic region go throu EOC who, in turn, make a n to the appropriate NMDC	naint. request

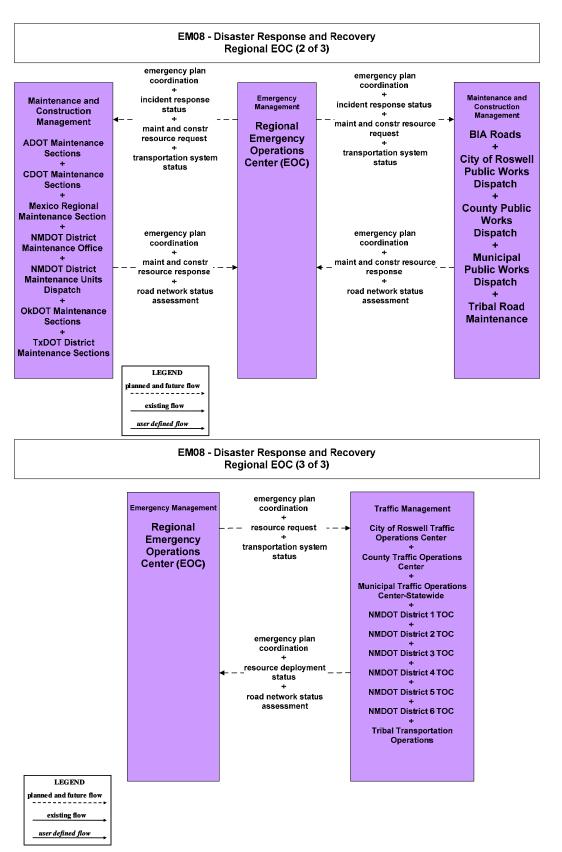






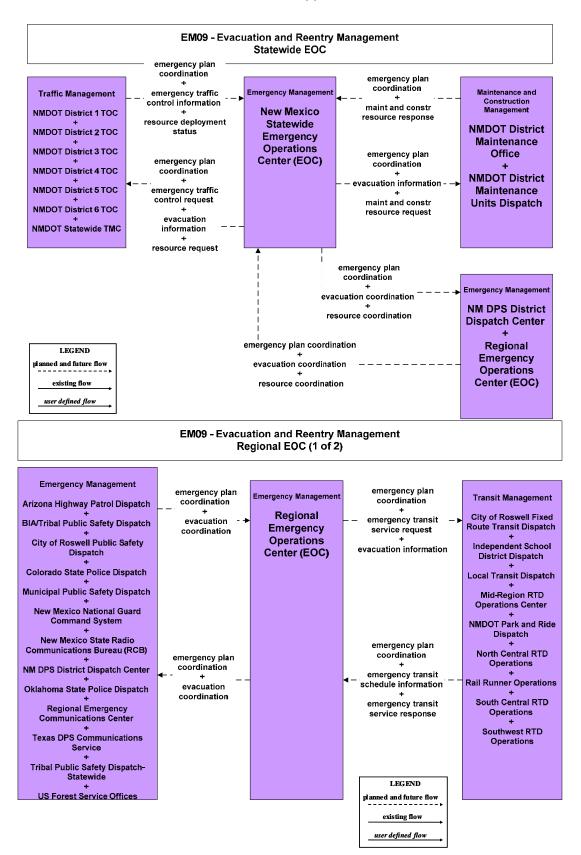






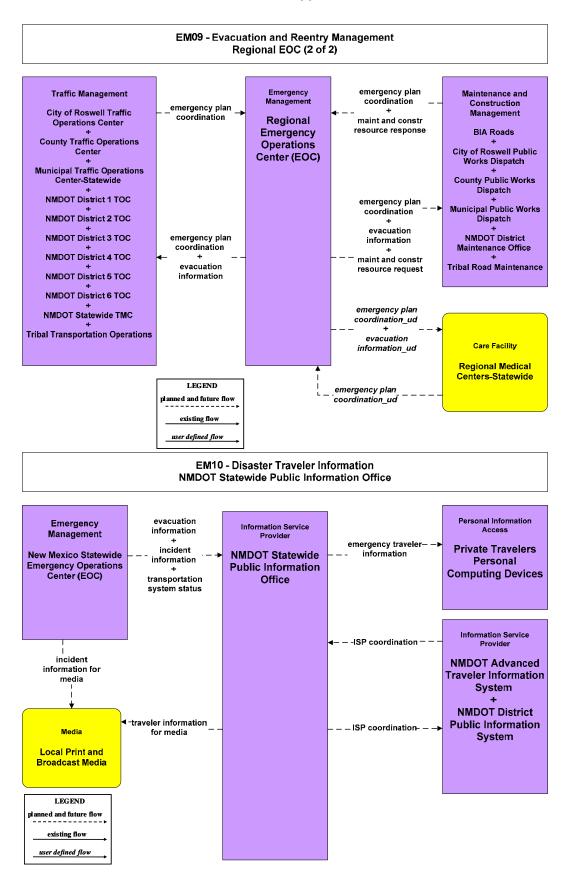






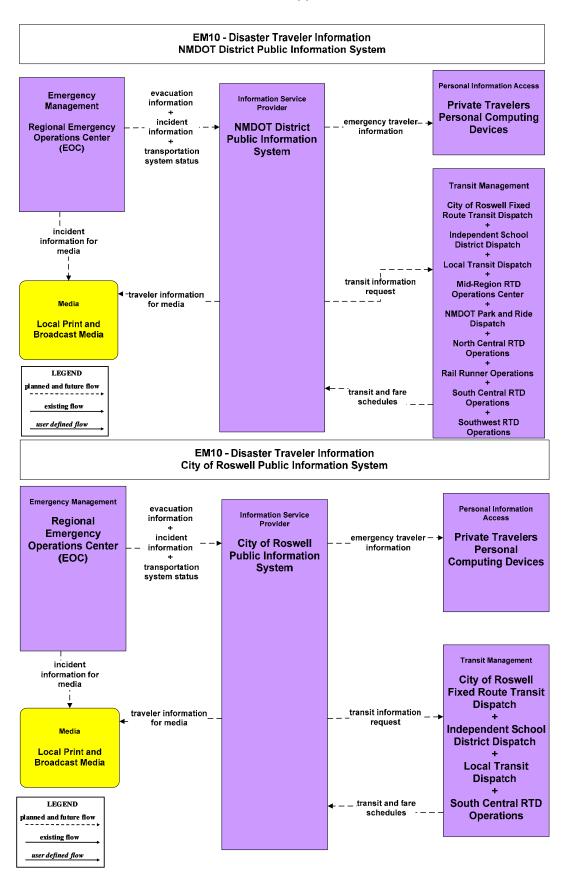






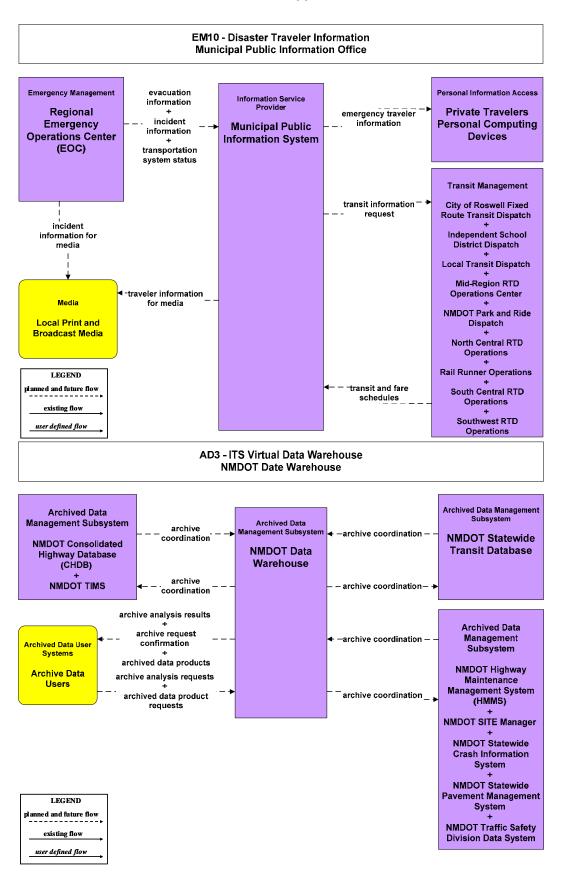










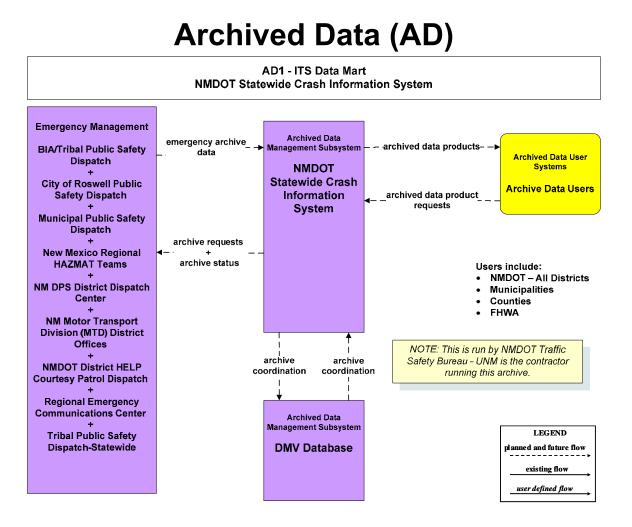






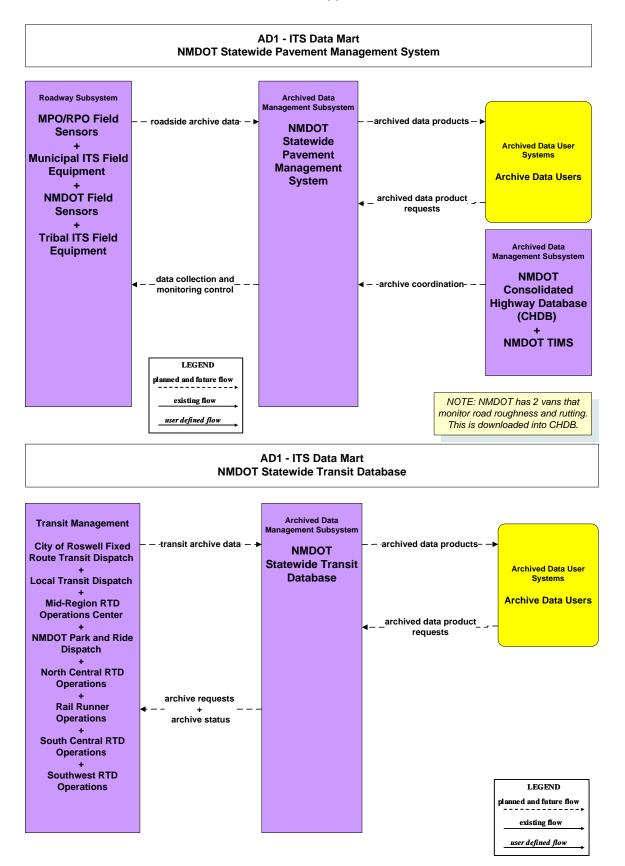
## **New Mexico Statewide ITS Architecture**

## **Customized Market Package Diagrams**



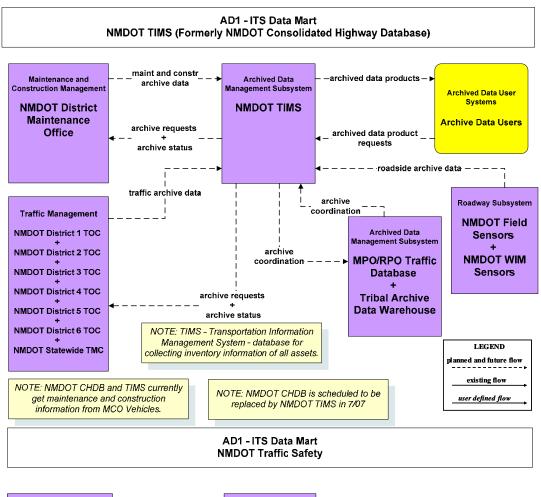


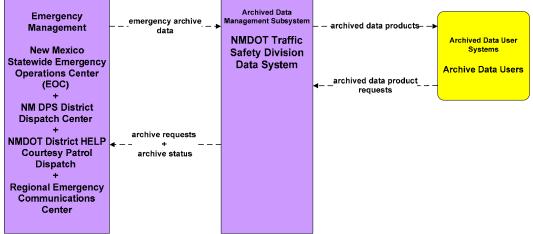








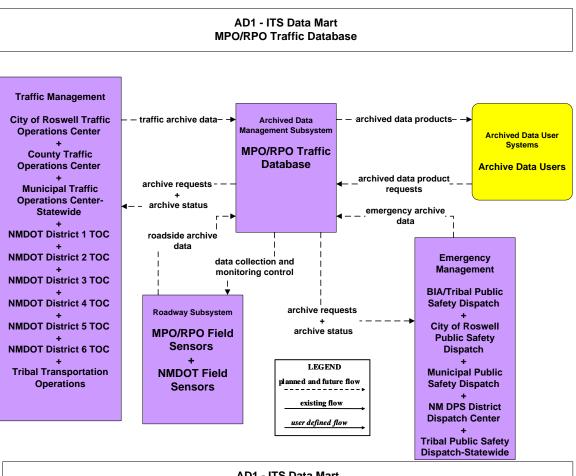




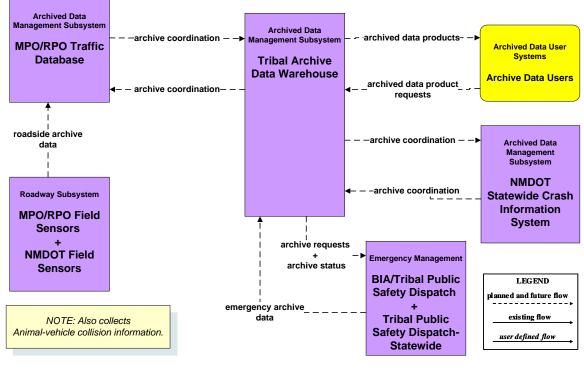






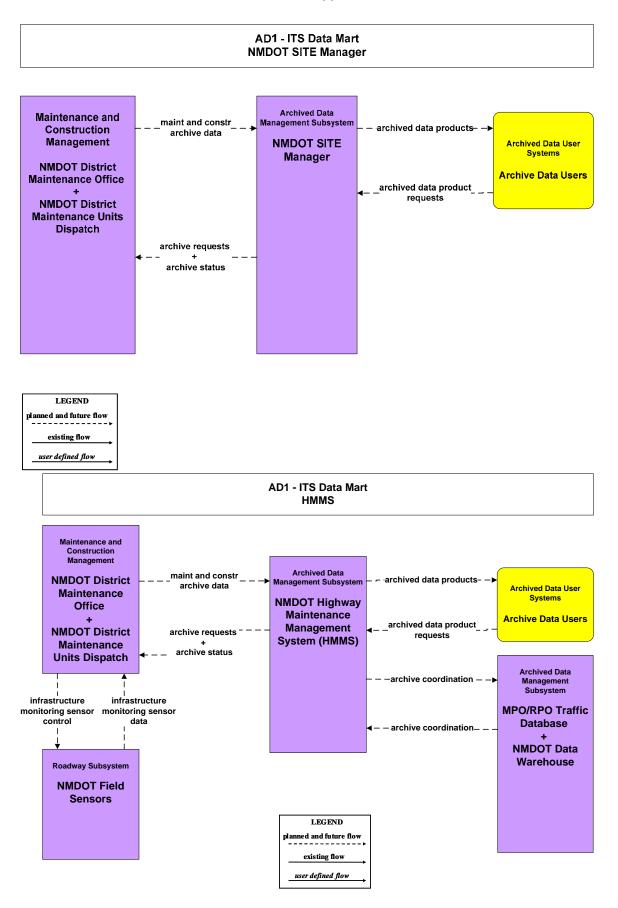


AD1 - ITS Data Mart Tribal



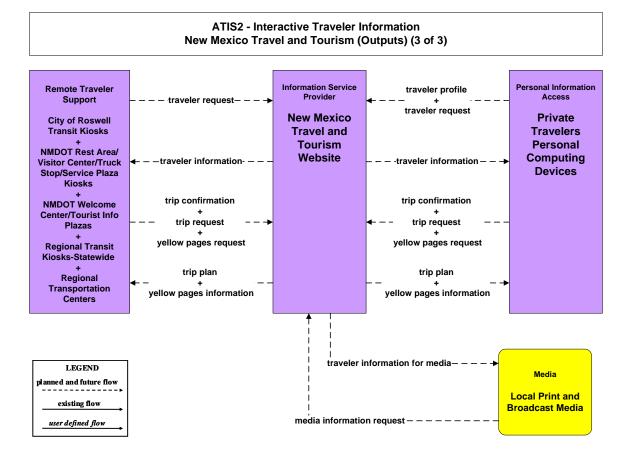












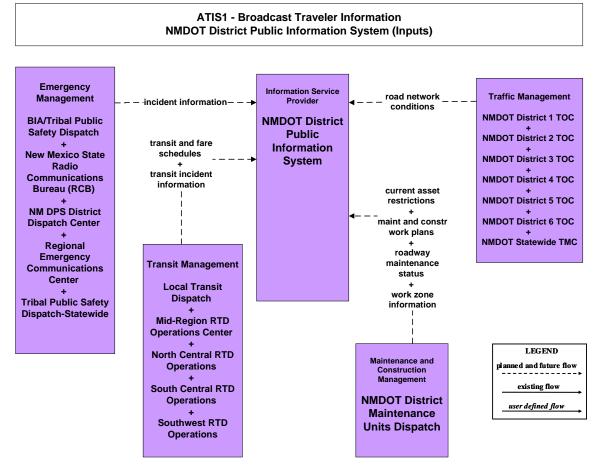




## **New Mexico Statewide ITS Architecture**

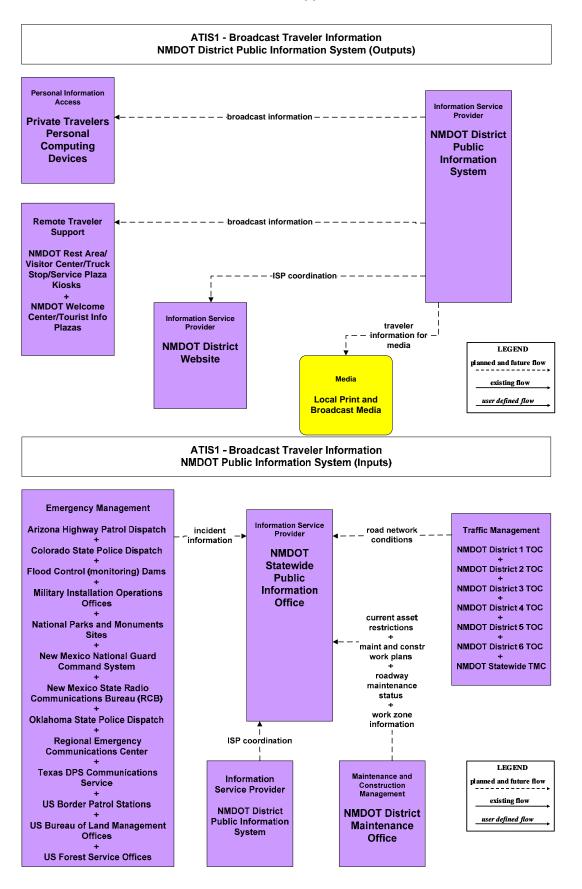
## **Customized Market Package Diagrams**

## **Advanced Traveler Information Systems (ATIS)**



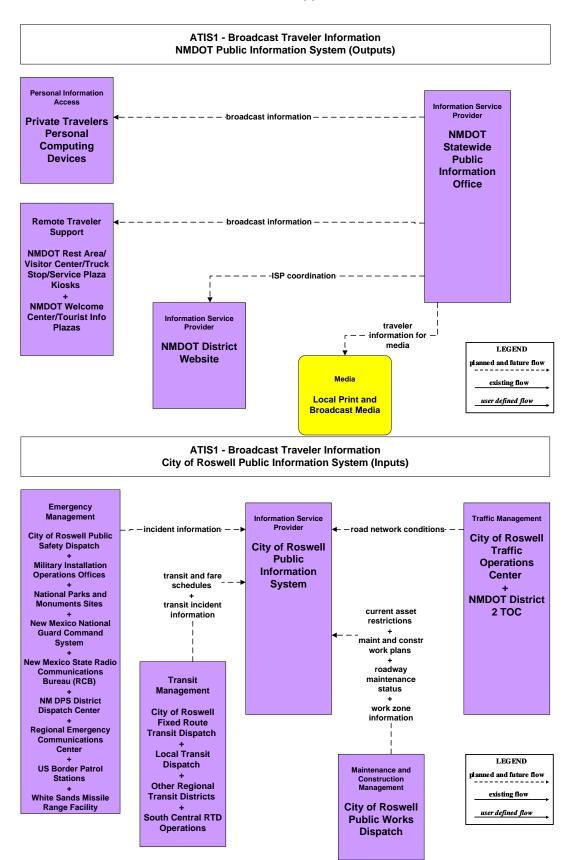






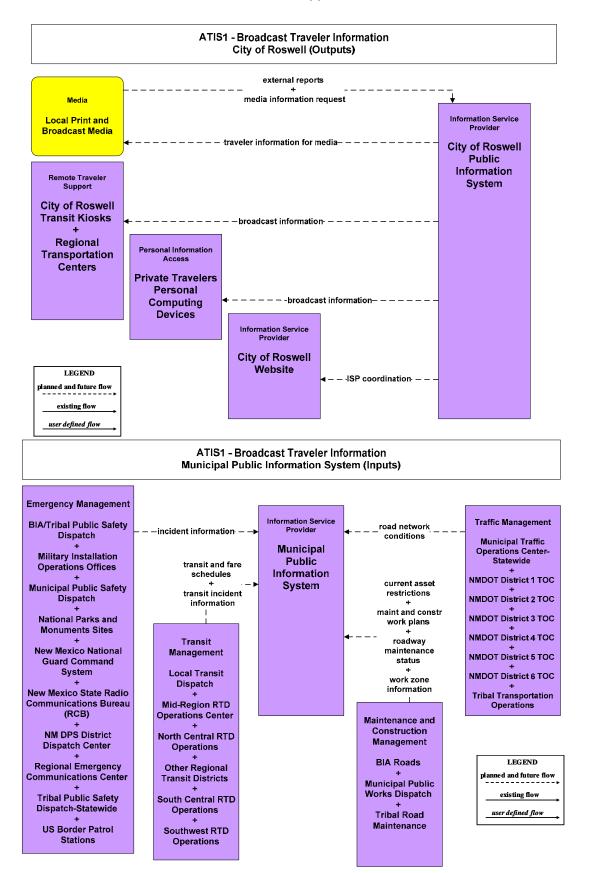






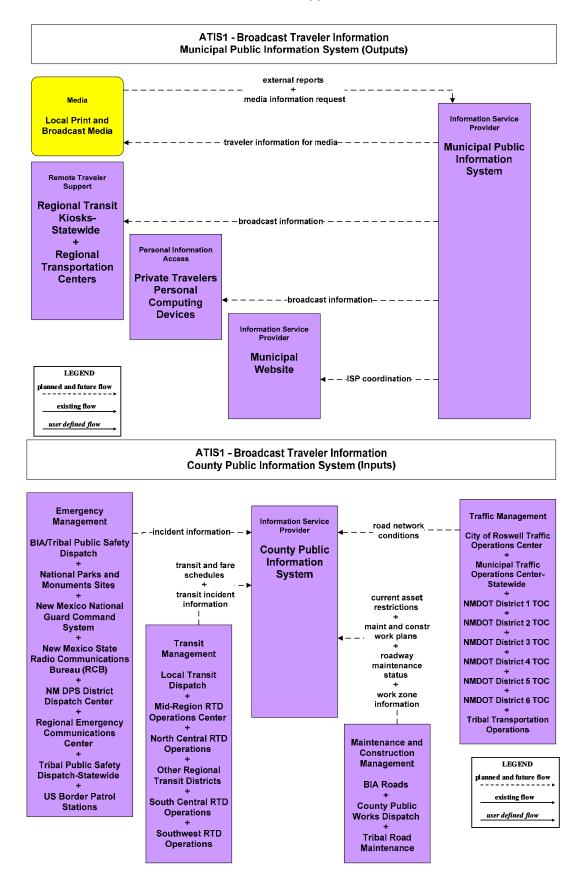




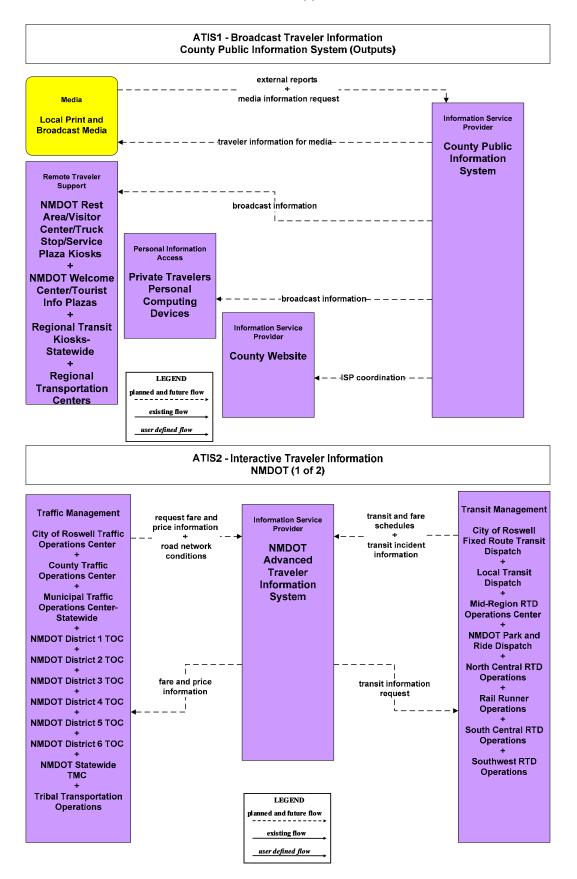






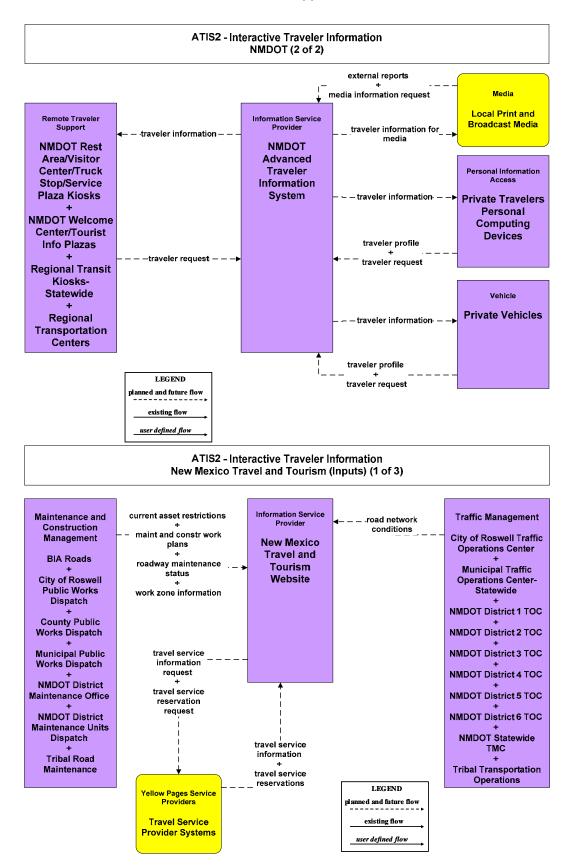






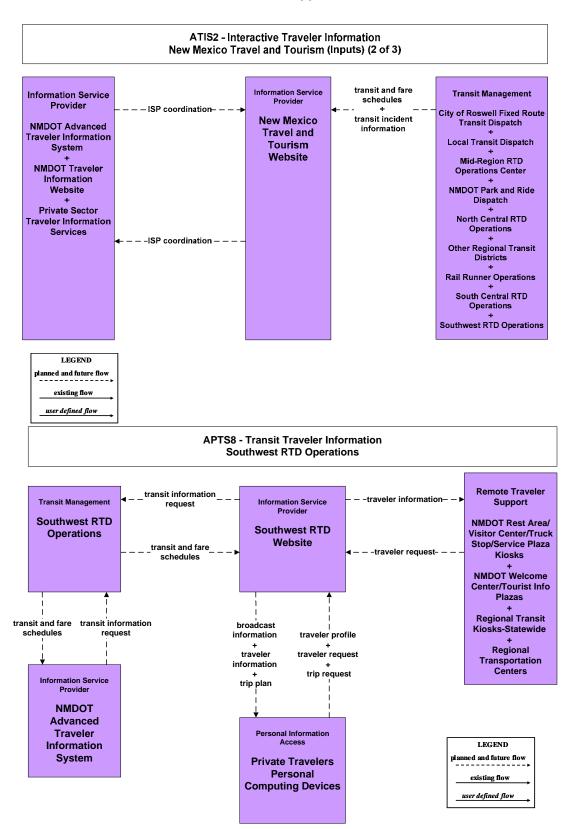












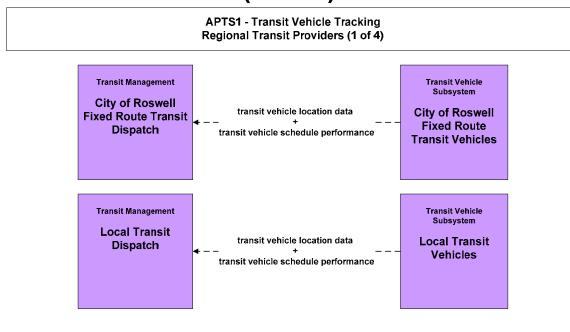




## **New Mexico Statewide ITS Architecture**

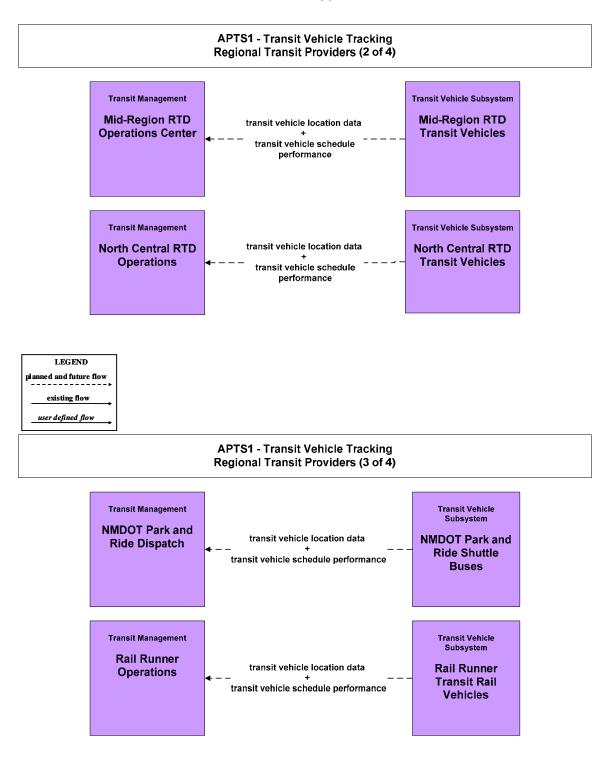
## **Customized Market Package Diagrams**

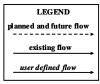
# Advanced Public Transportation Systems (APTS)





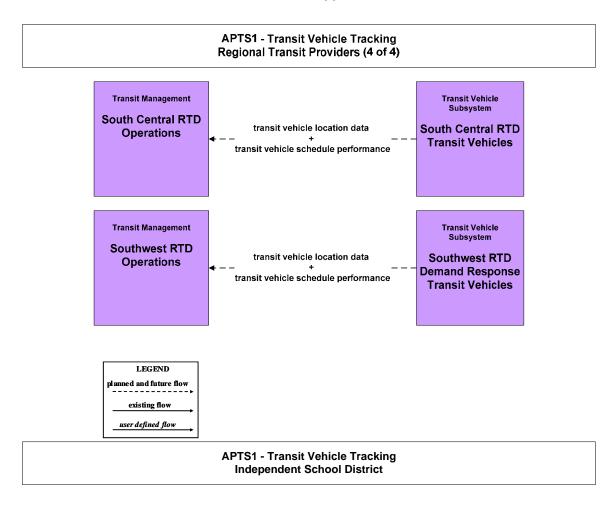


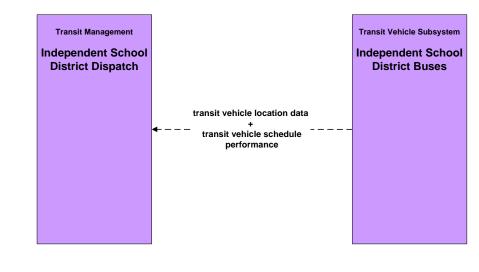








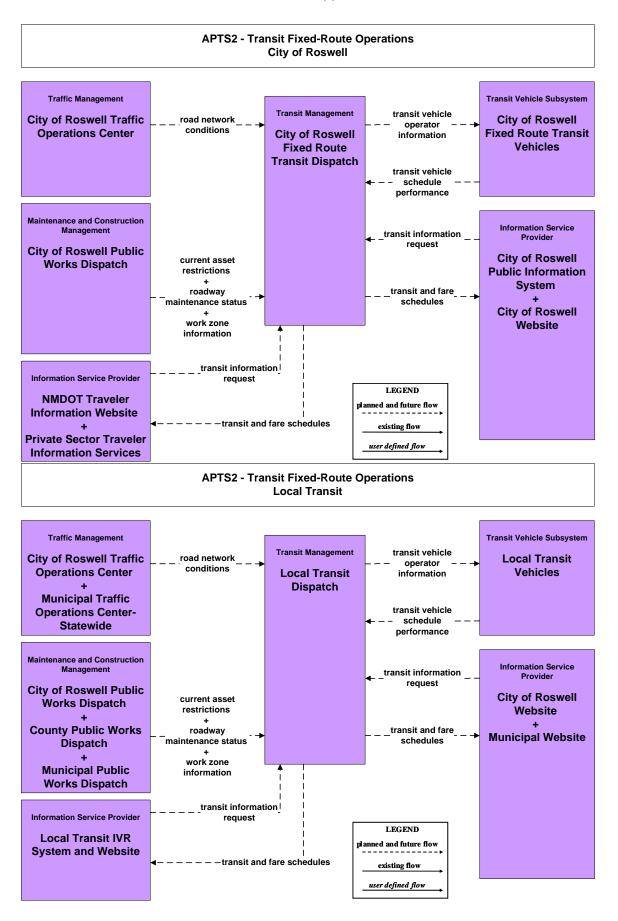




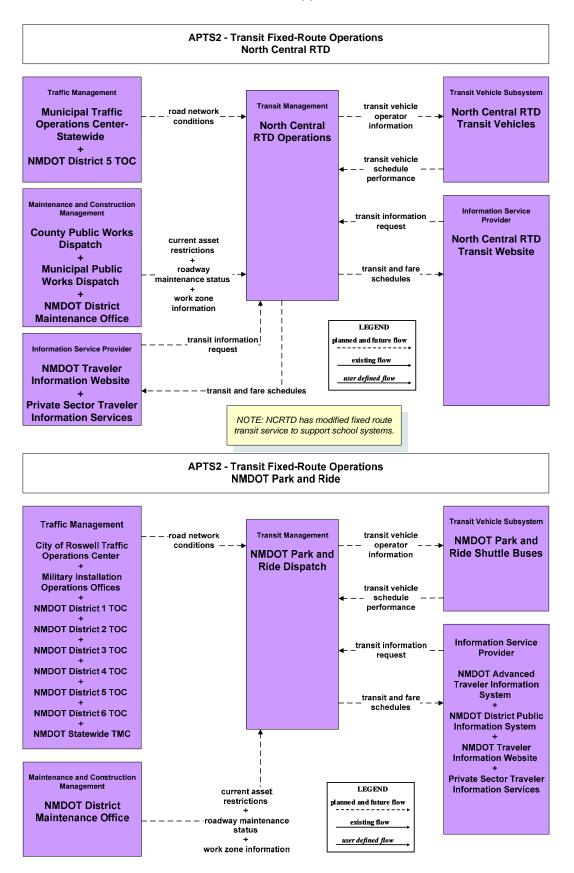
LEGEND		
planned and future flow		
existing flow		
user defined flow		





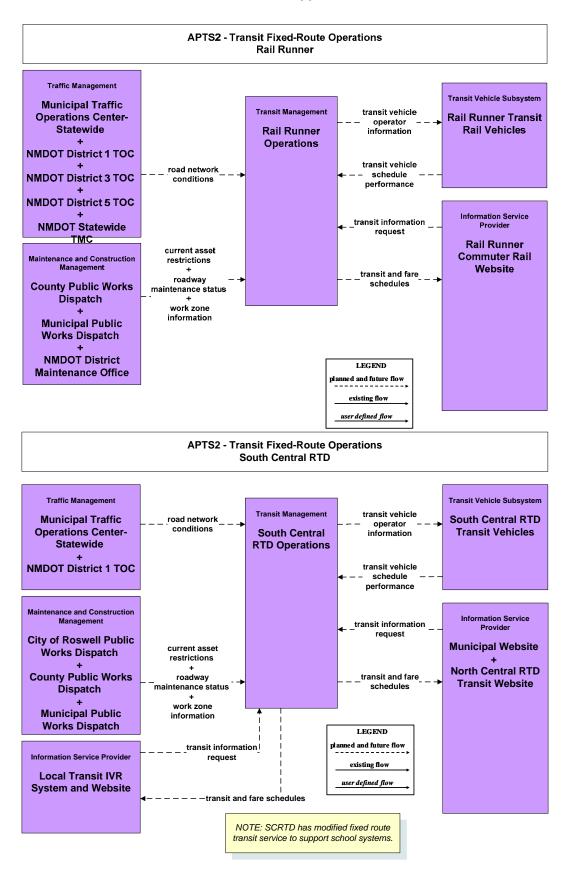






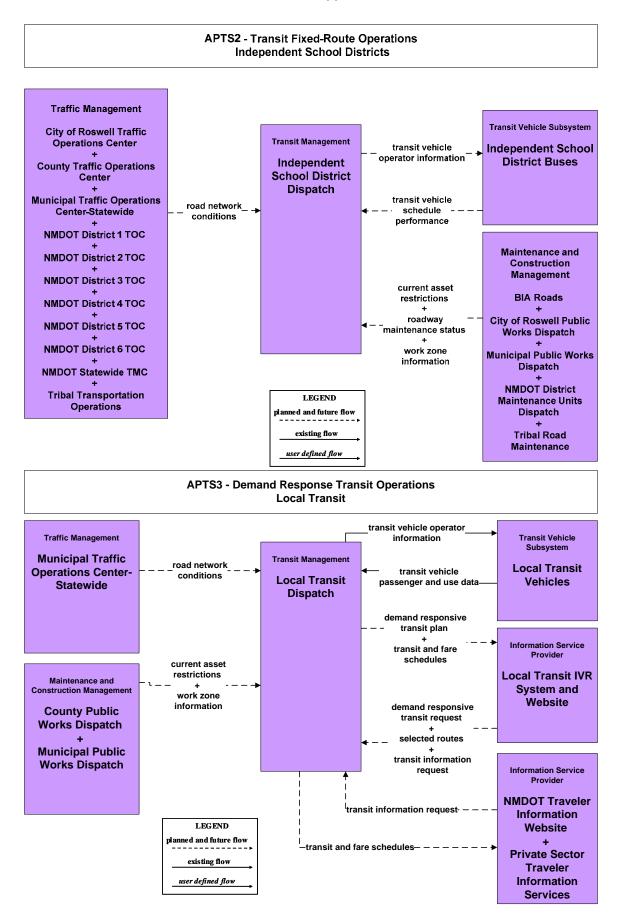






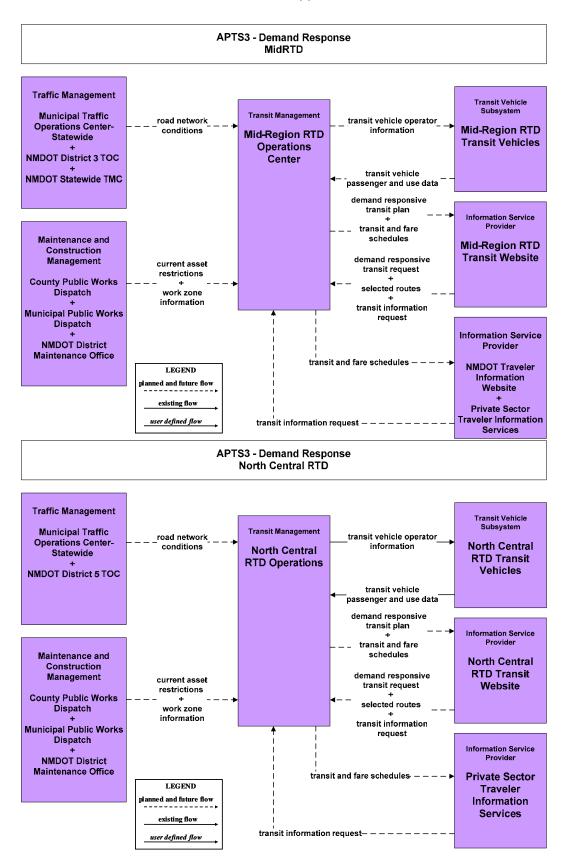






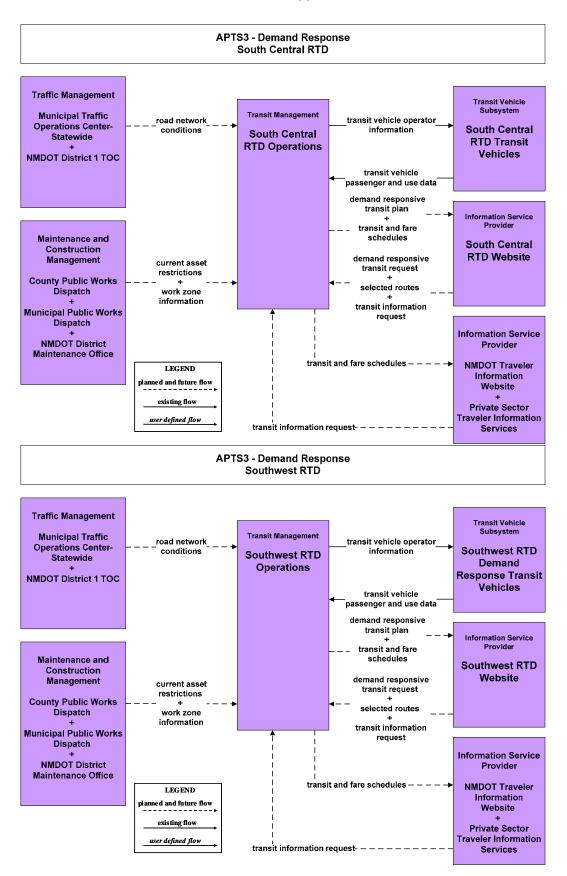


ConSysTec





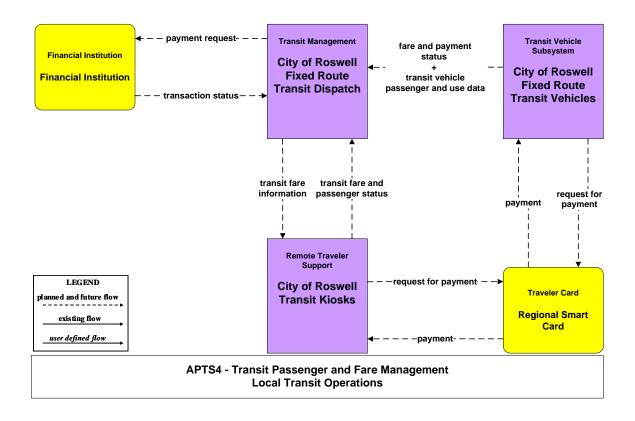


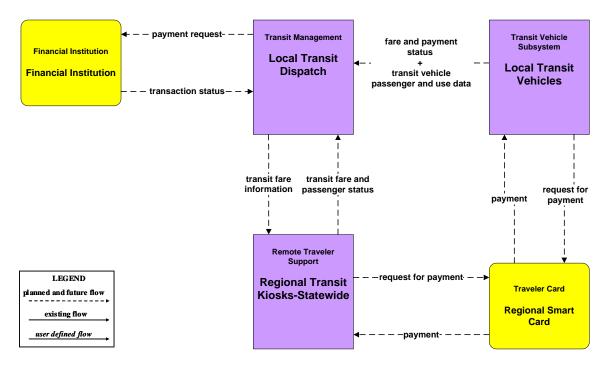






### APTS4 - Transit Passenger and Fare Management City of Roswell

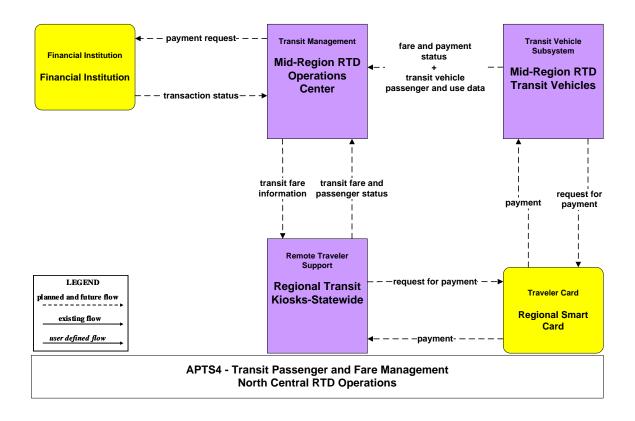


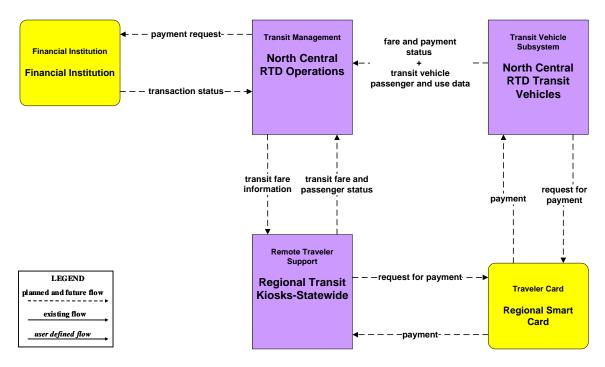






## APTS4 - Transit Passenger and Fare Management MidRTD Transit Operations

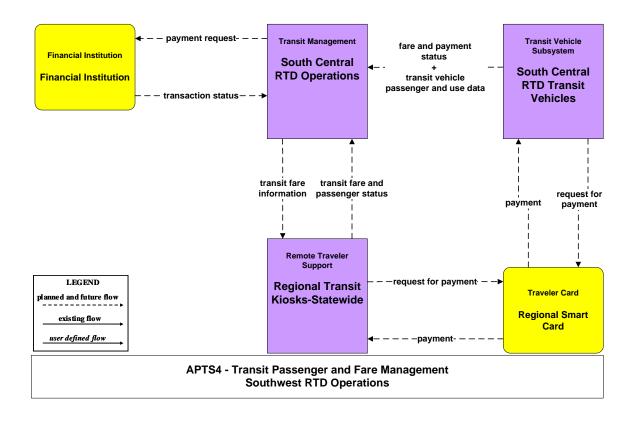


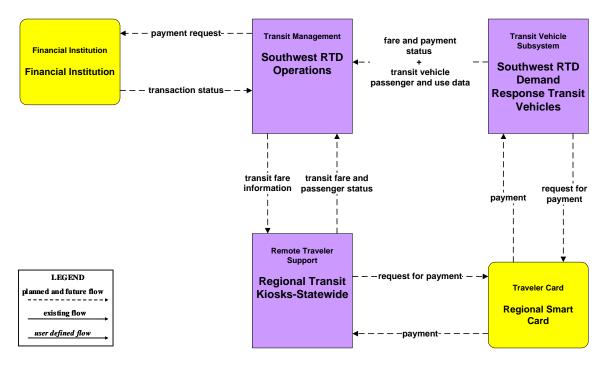






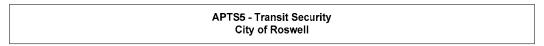
#### APTS4 - Transit Passenger and Fare Management South Central RTD Operations

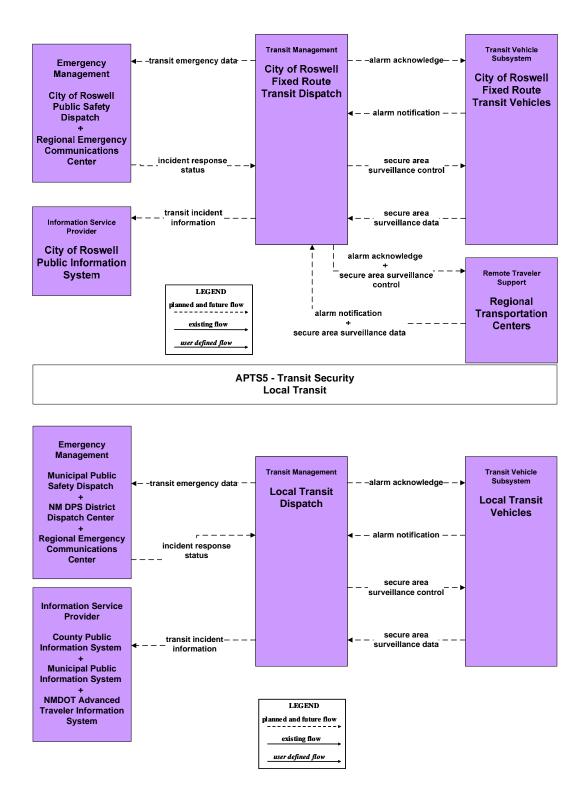








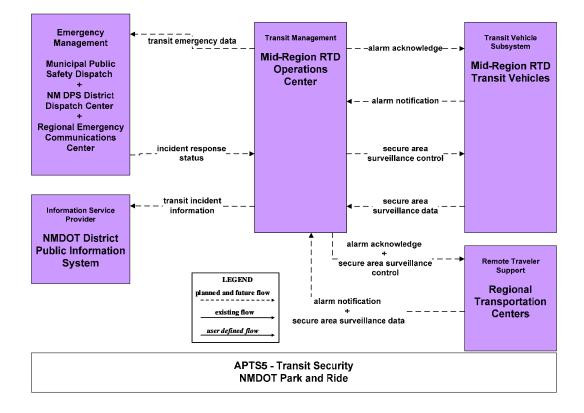


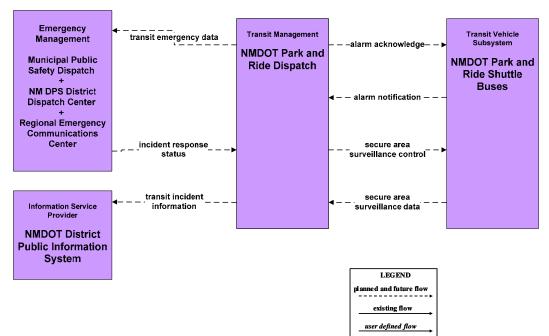






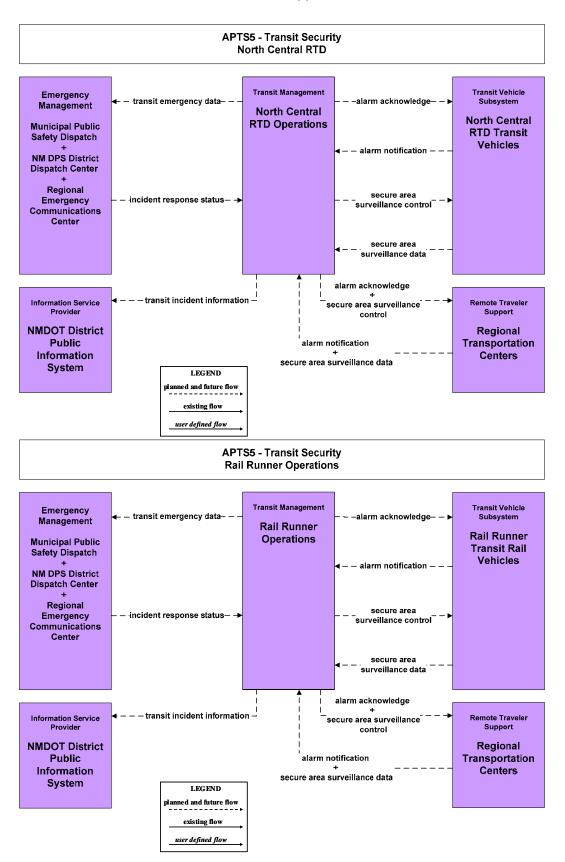
APTS5 - Transit Security MidRTD Operations





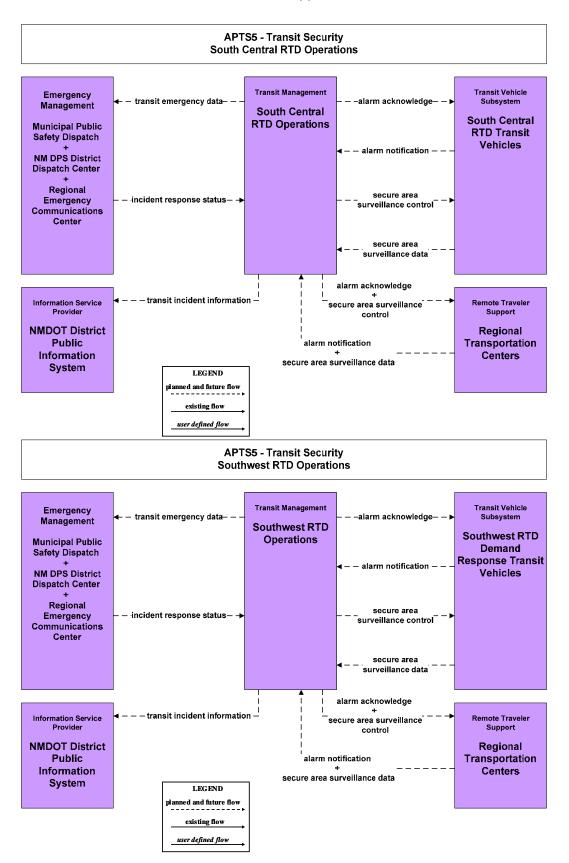








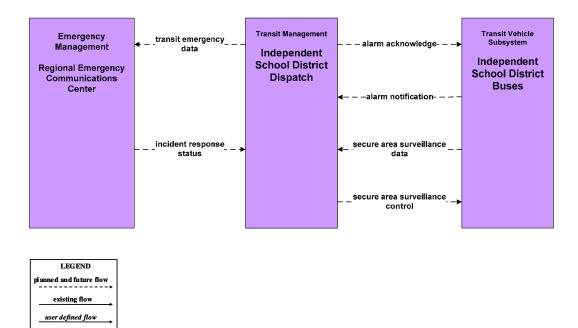












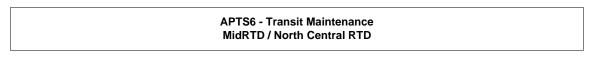
#### APTS6 - Transit Maintenance City of Roswell / Local

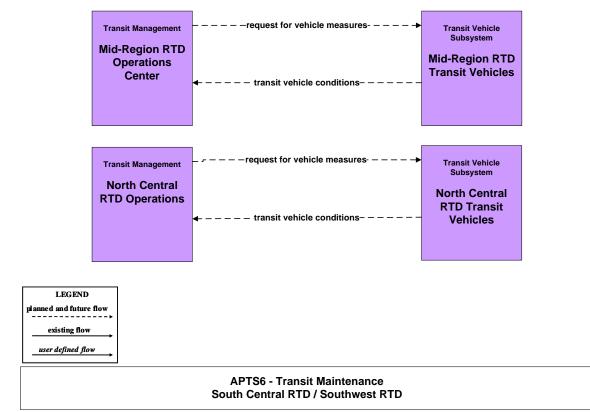
Transit Management City of Roswell Fixed Route Transit Dispatch	<ul> <li> →</li> <li></li></ul>	Transit Vehicle Subsystem City of Roswell Fixed Route Transit Vehicles
Transit Management	request for vehicle measures →	Transit Vehicle Subsystem
Dispatch		Local Transit Vehicles

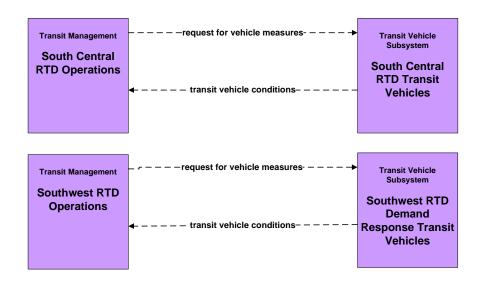
#### LEGEND planned and future flow existing flow

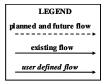
user defined flow





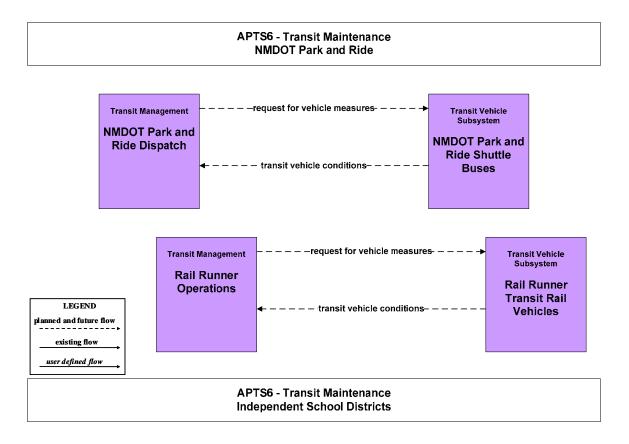


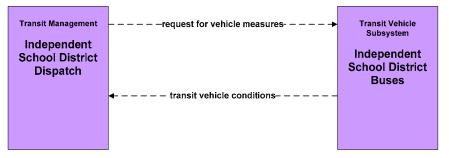








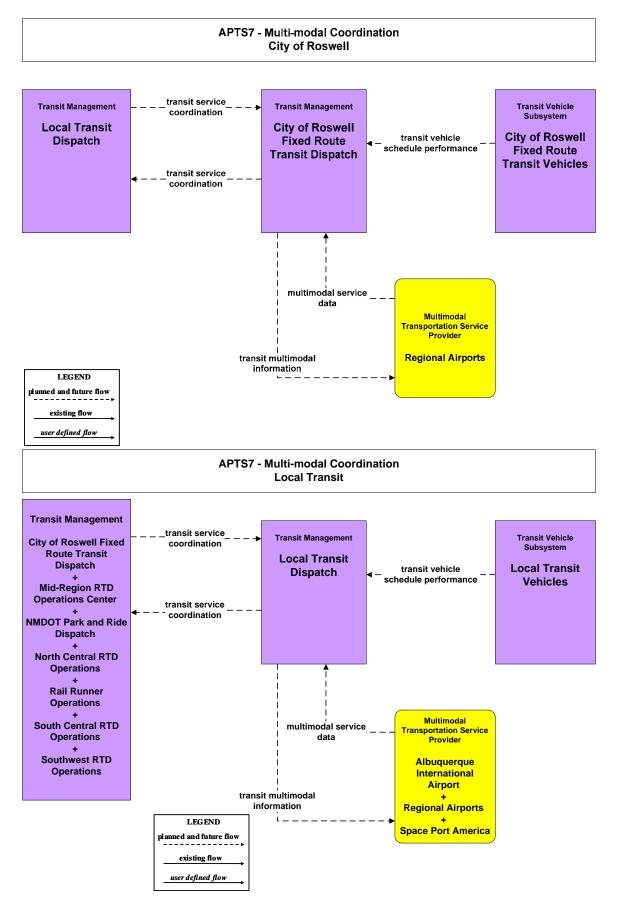




LEGEND
planned and future flow
existing flow
user defined flow

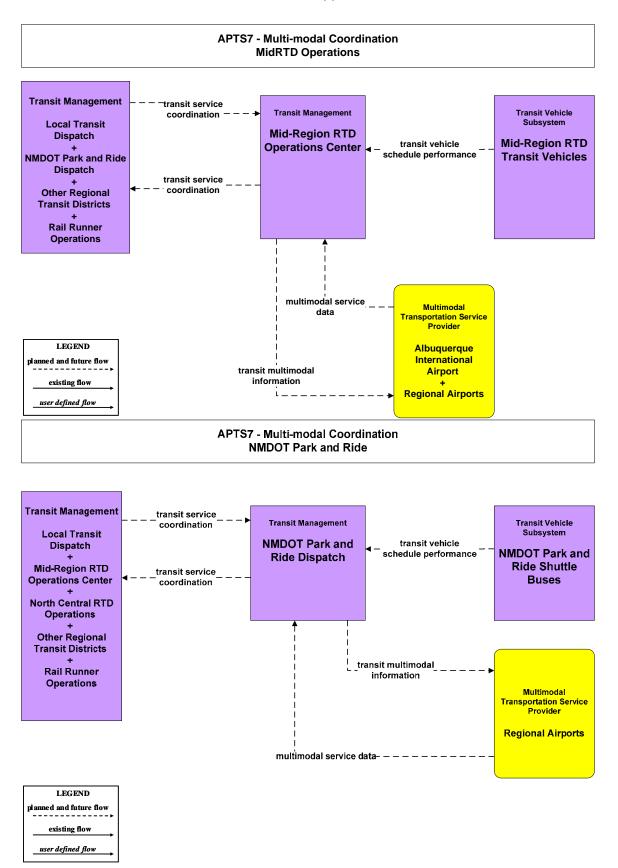






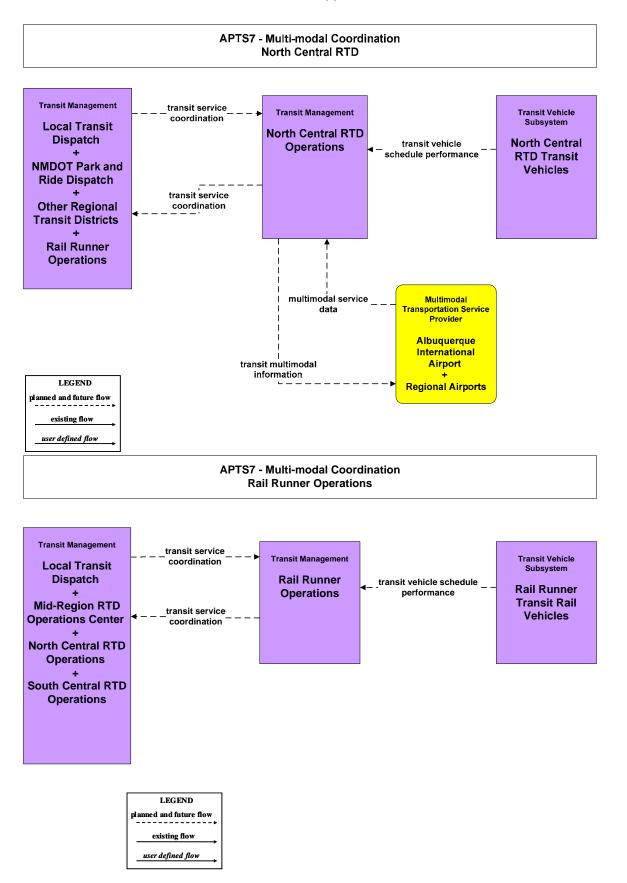






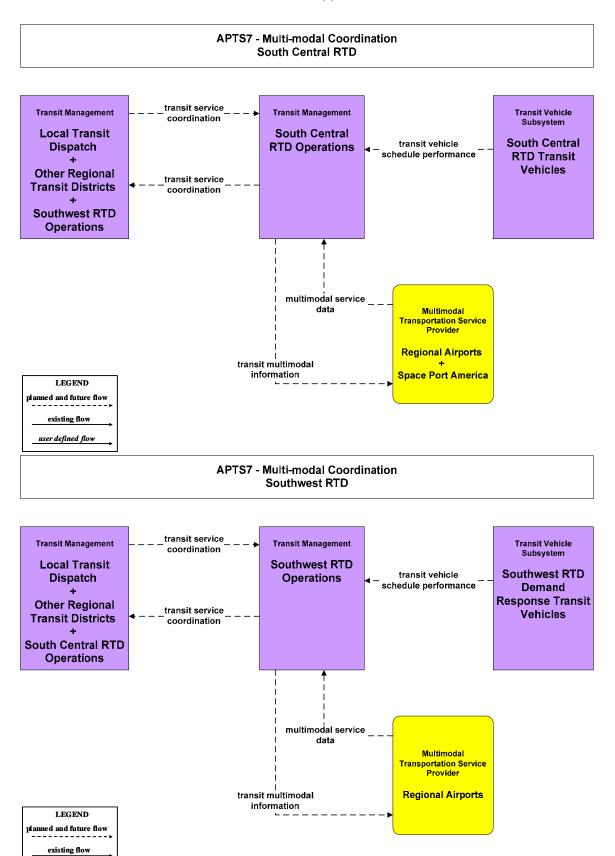








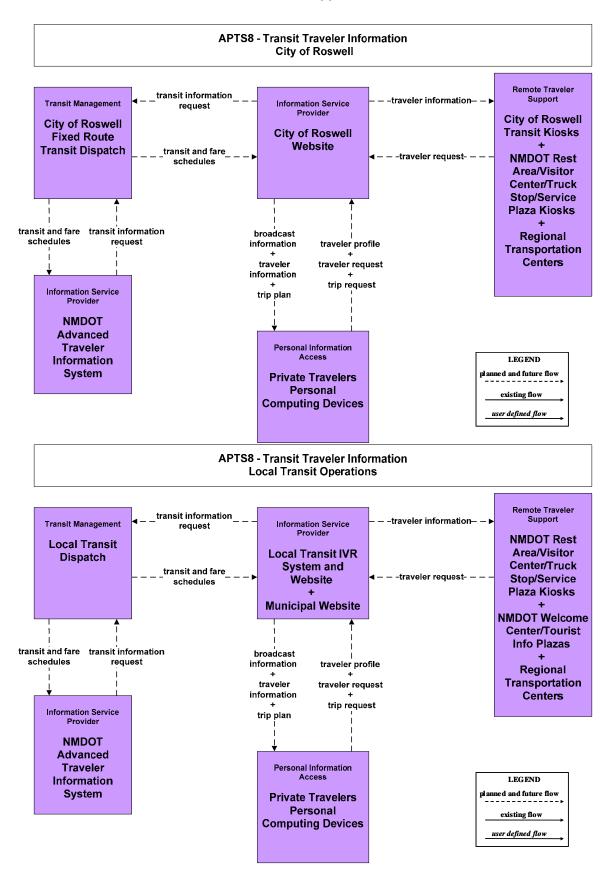






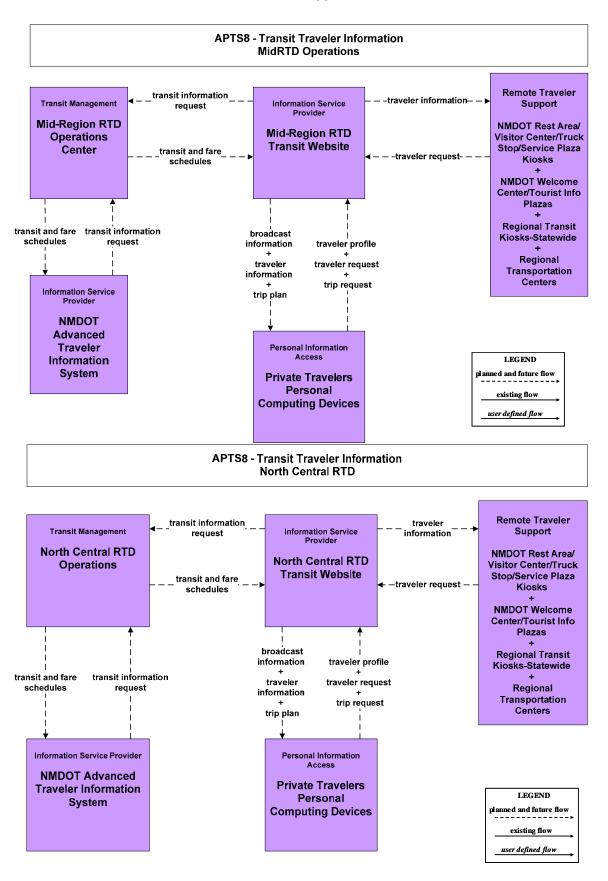
user defined flow





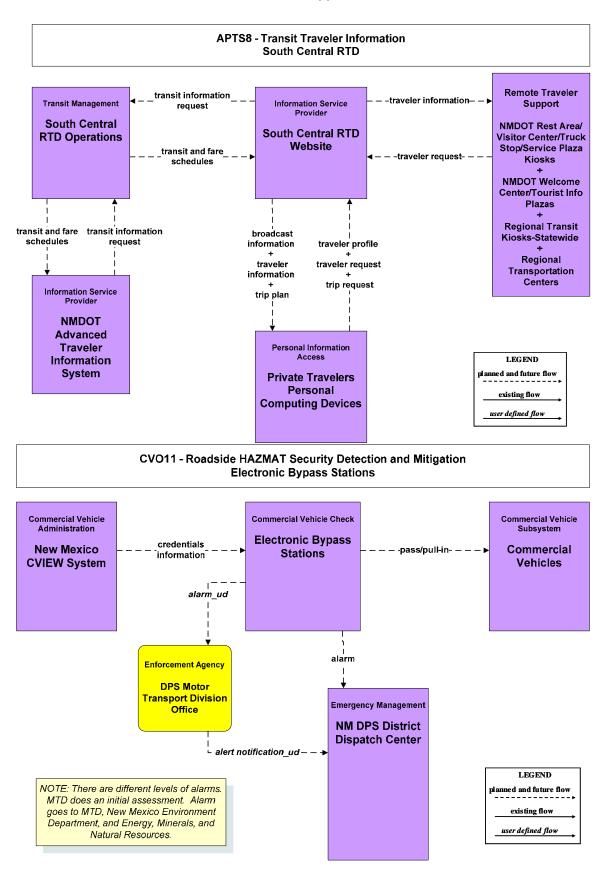












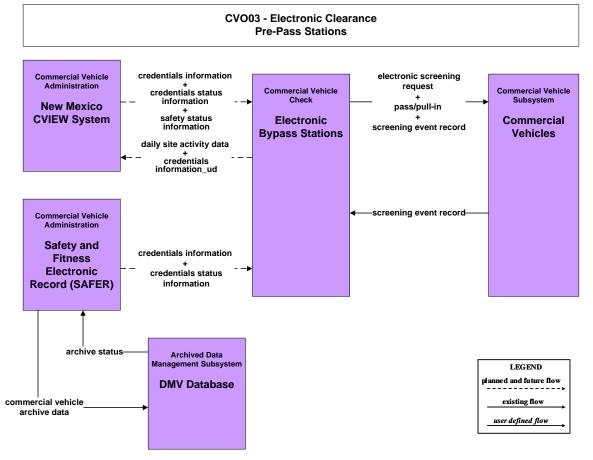




## **New Mexico Statewide ITS Architecture**

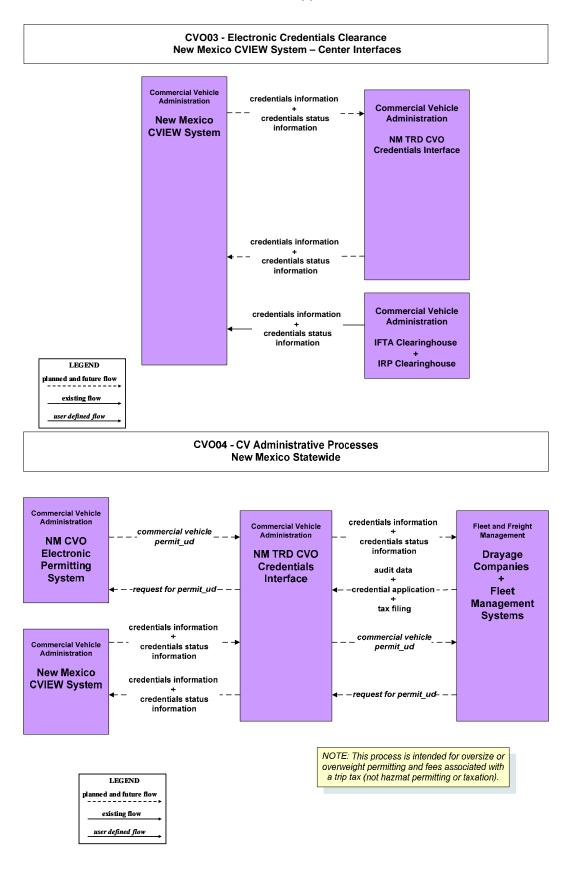
# **Customized Market Package Diagrams**

# **Commercial Vehicle Operations (CVO)**



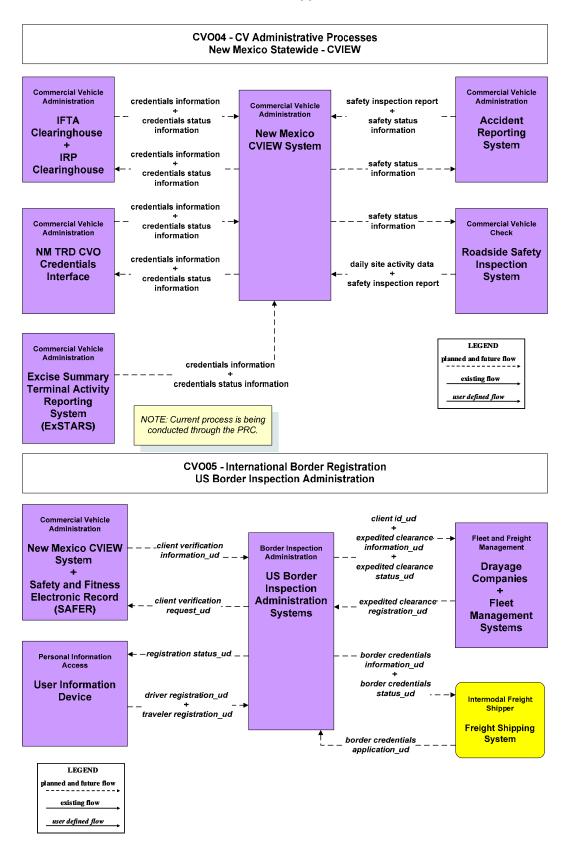






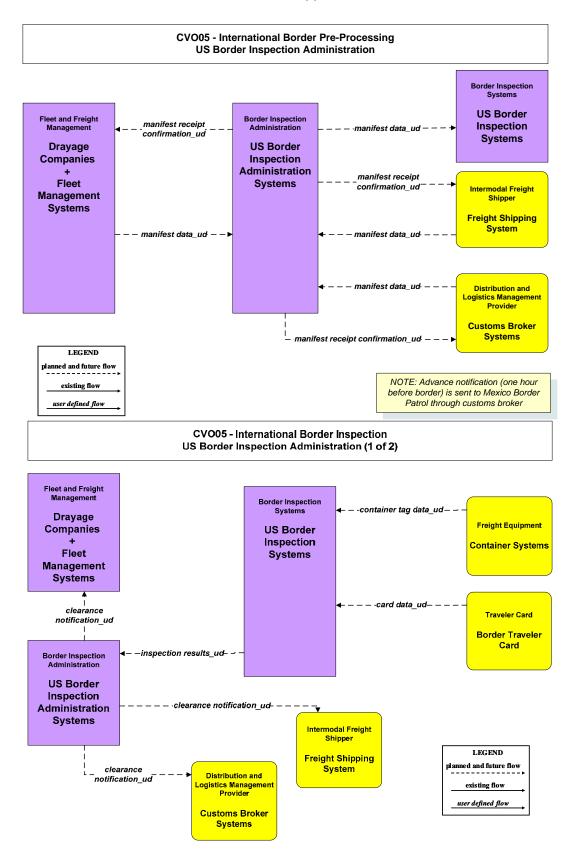
















#### CVO05 - International Border Inspection US Border Inspection Administration (2 of 2)

