Appendix D: Customized Market Packages





New Mexico Statewide ITS Architecture

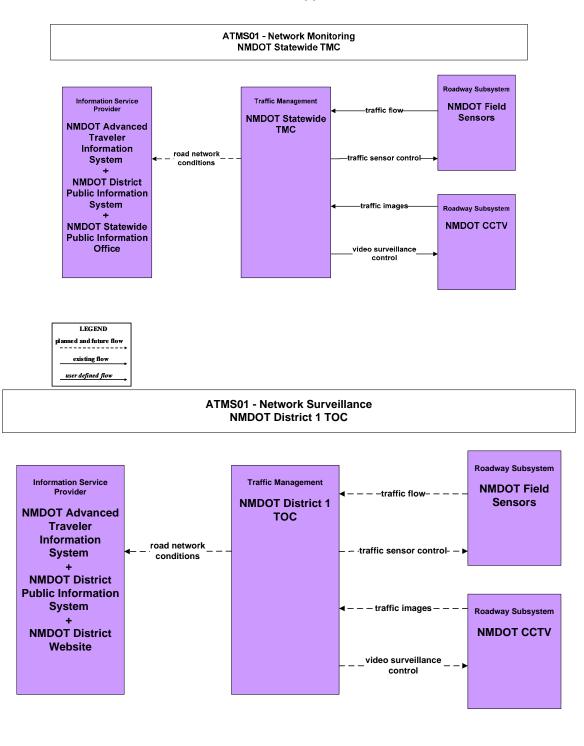
Customized Market Package Diagrams

based on National ITS Architecture Version 5.1

March 23, 2007



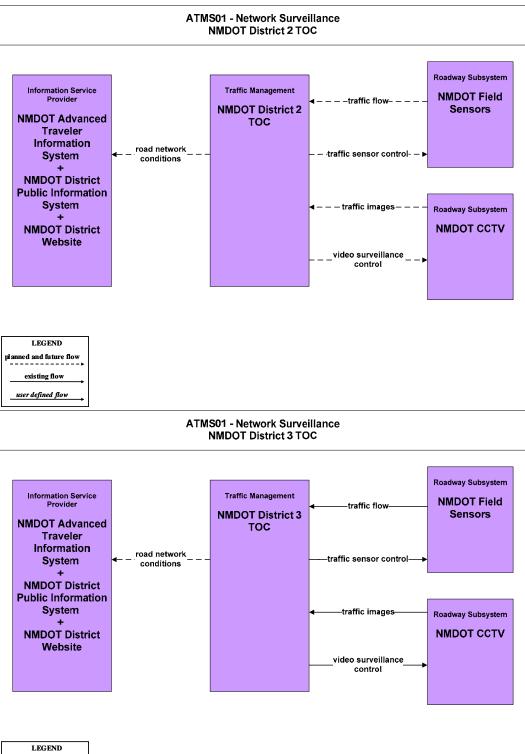




LEGEND planned and future flow					
existing flow					



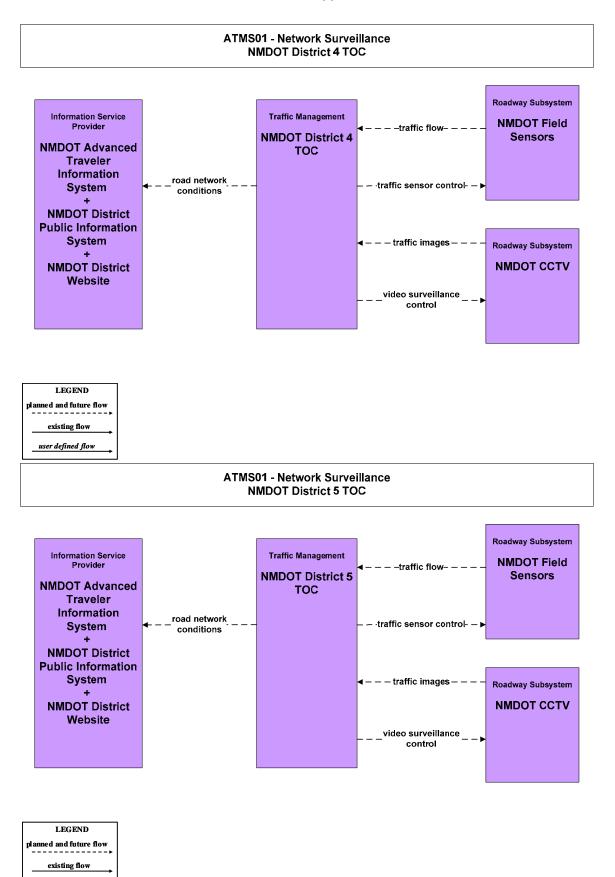








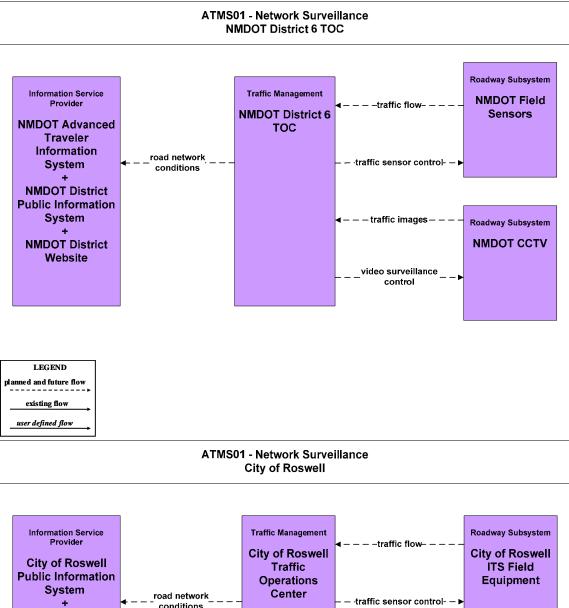


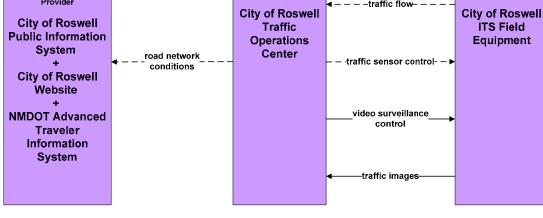


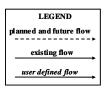


user defined flow



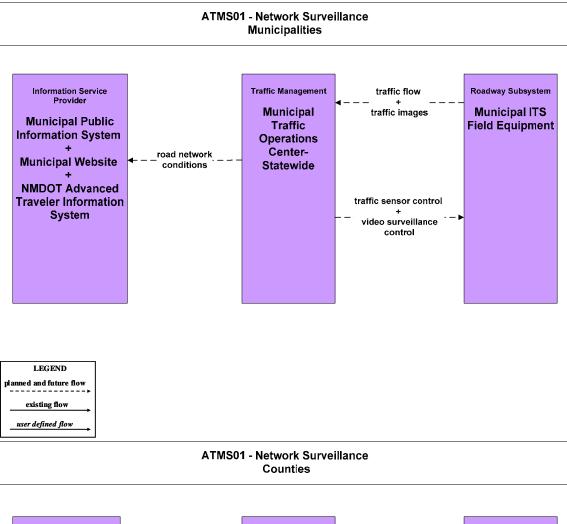


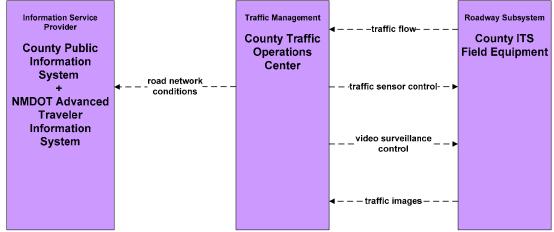








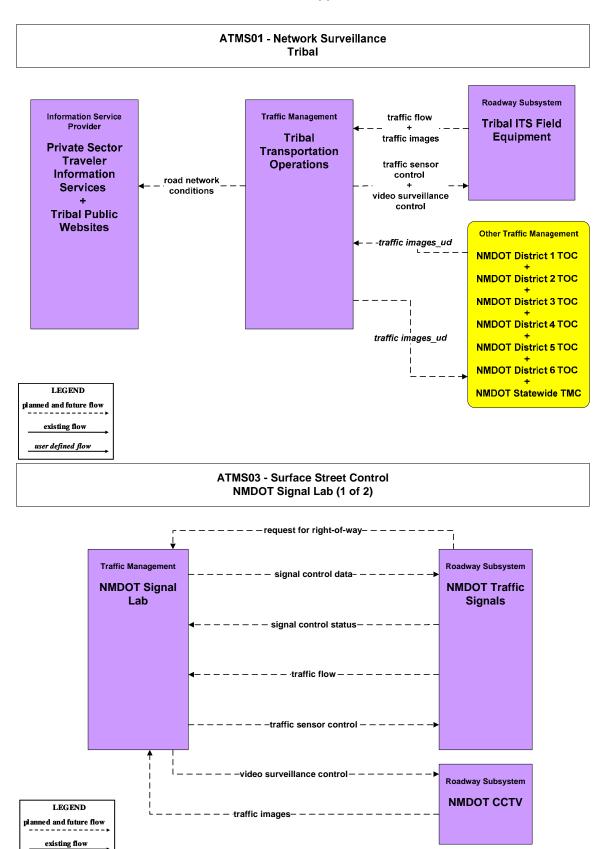




LEGEND					
planned and future flow					
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existing flow					
user defined flow					
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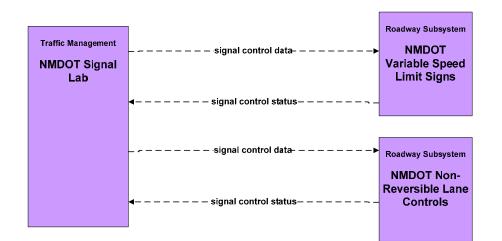
NOTE: In the future, the NMDOT Signal Lab will control all traffic NMDOT traffic signals.

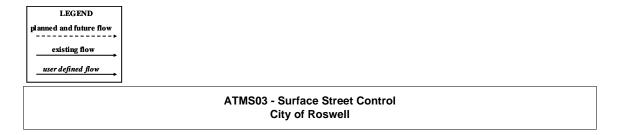


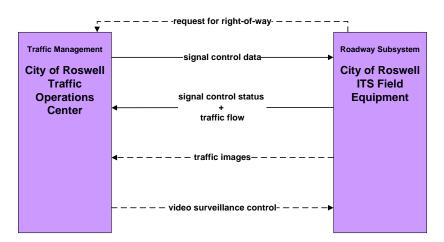
user defined flow



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





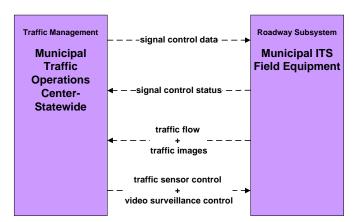




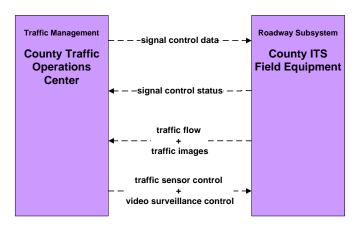








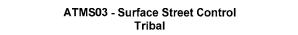


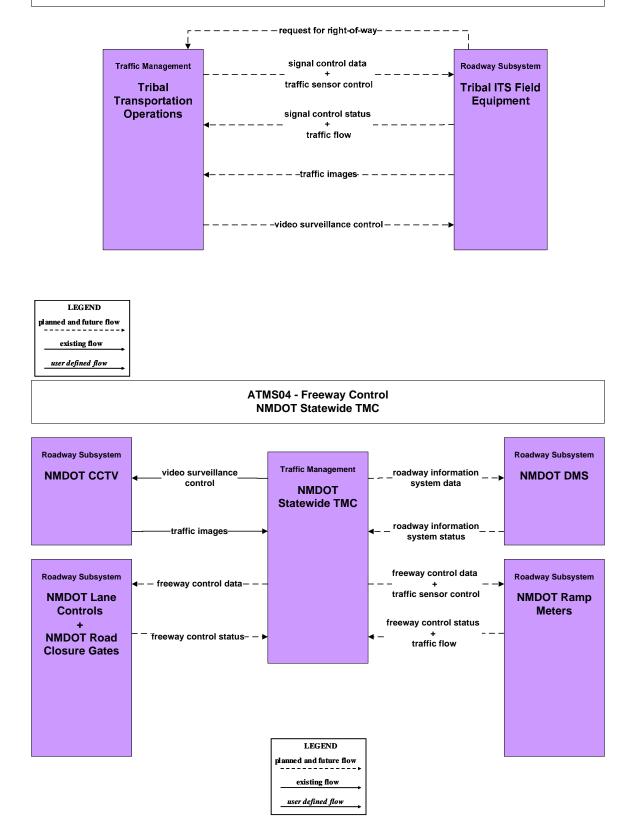






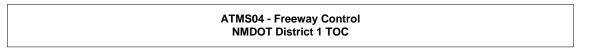


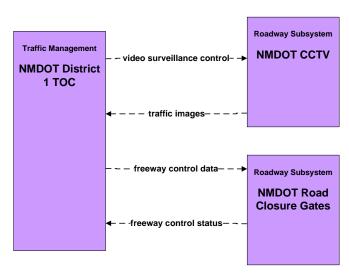


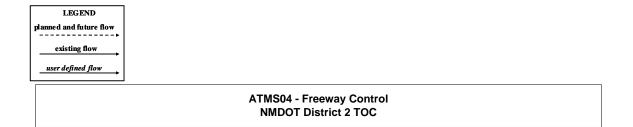


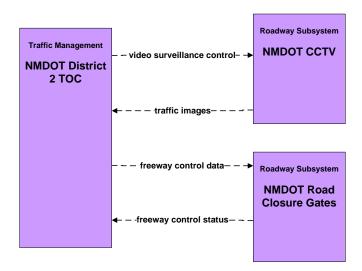


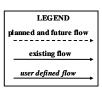




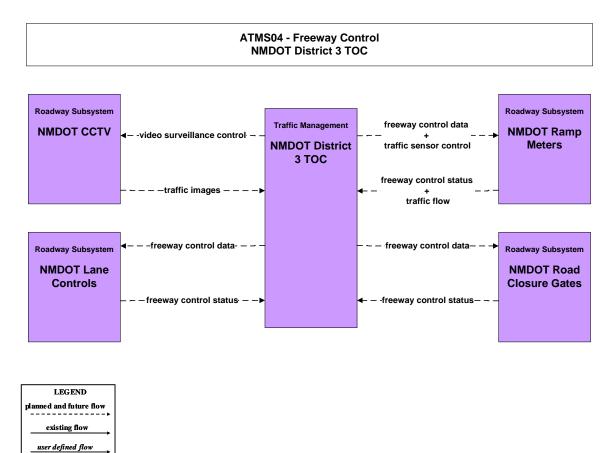




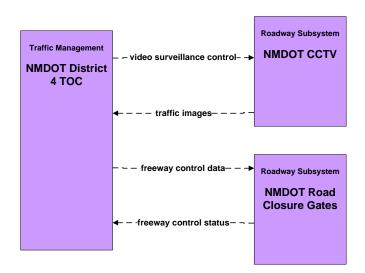


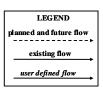










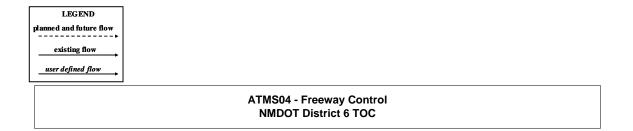


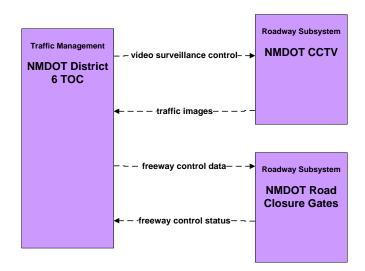


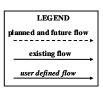




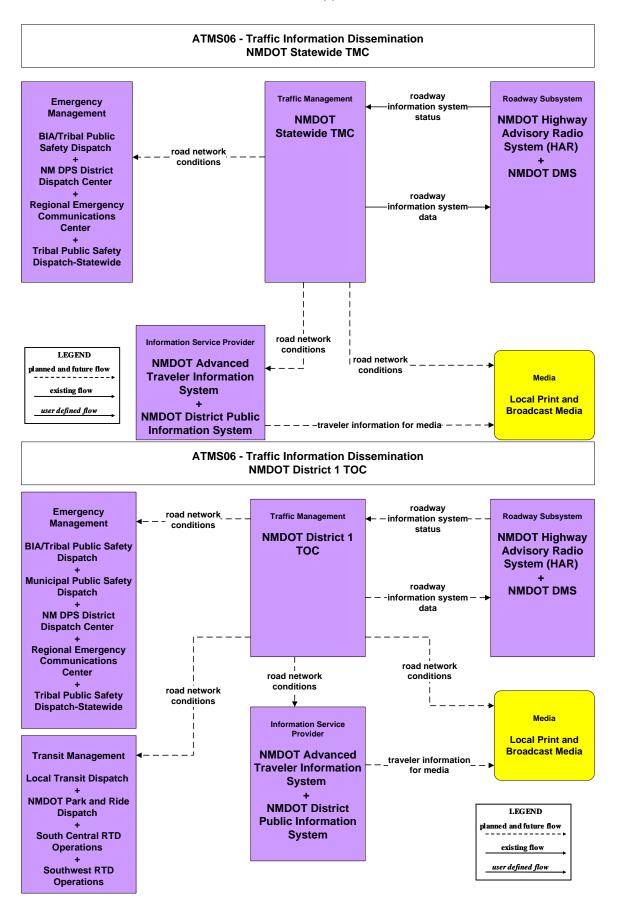
Roadway Subsystem	<	Traffic Management NMDOT District 5 TOC	– – – -freeway control data- – – ►	Roadway Subsystem NMDOT Road Closure Gates
	– – – – – traffic images – – – –►			
Roadway Subsystem NMDOT Lane Controls	 – – -freeway control data- – – – 		 ← freeway control status – – – 	
	– – – freeway control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



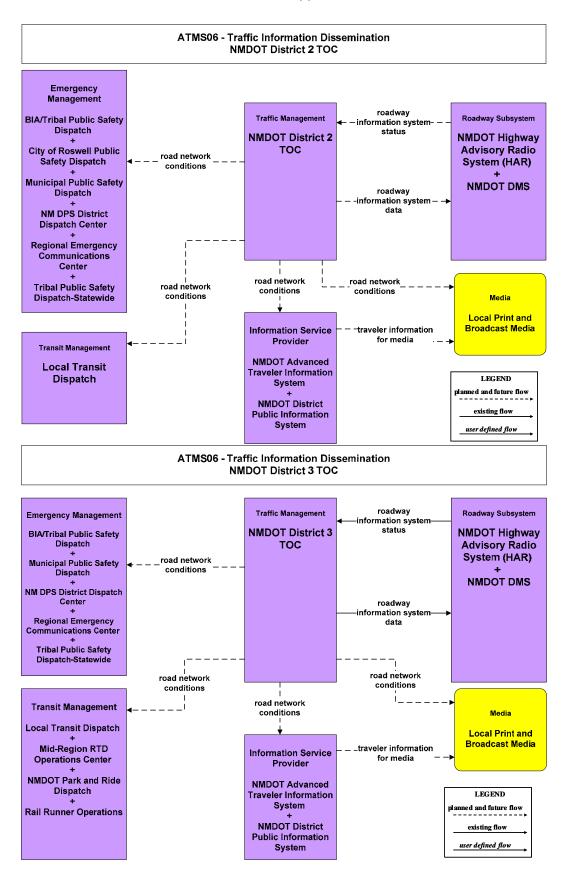




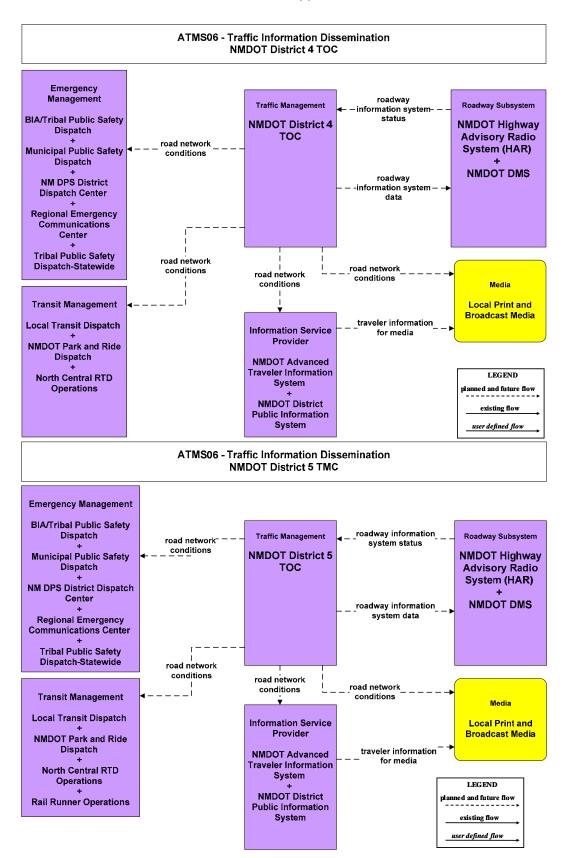






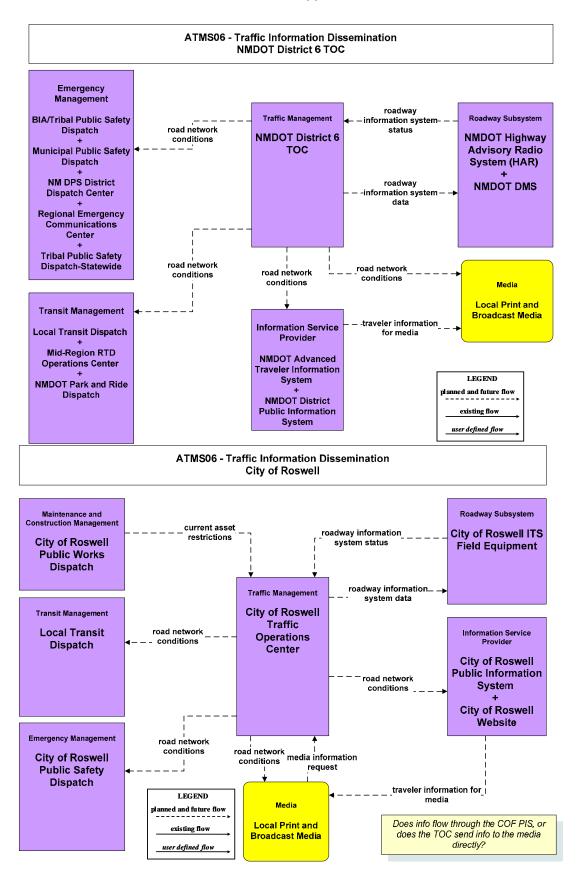






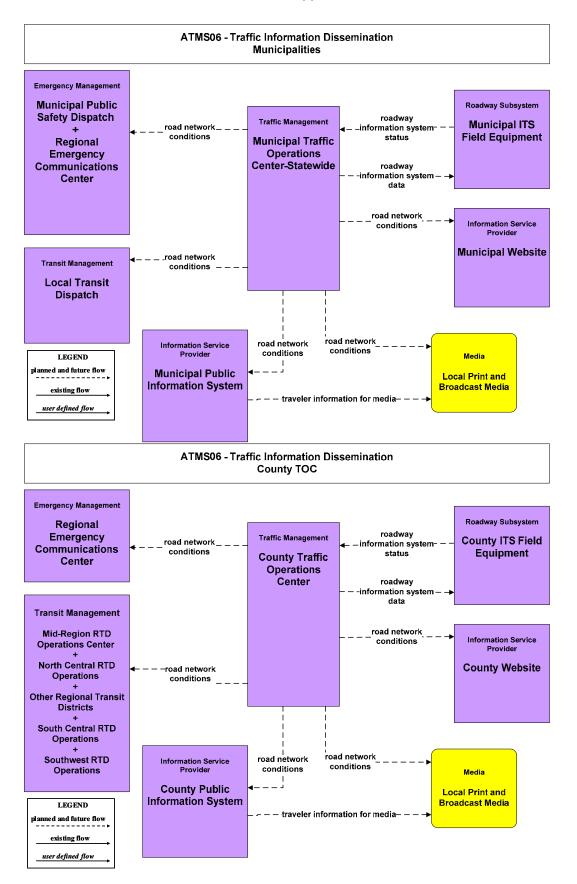






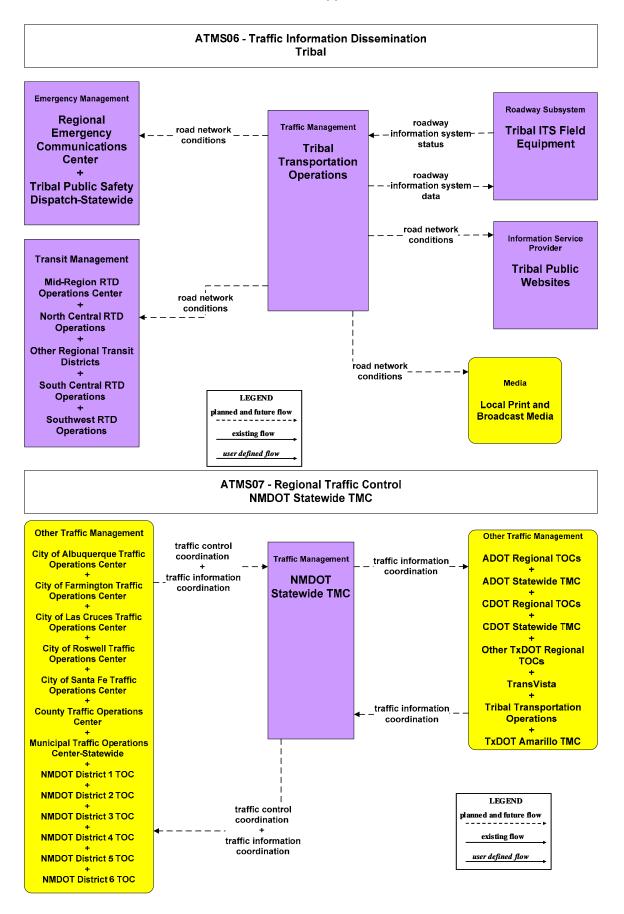




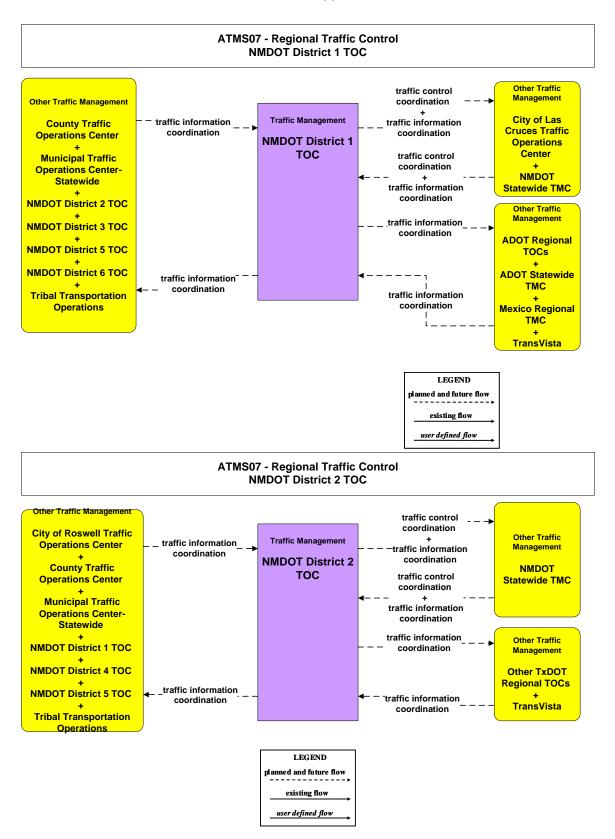






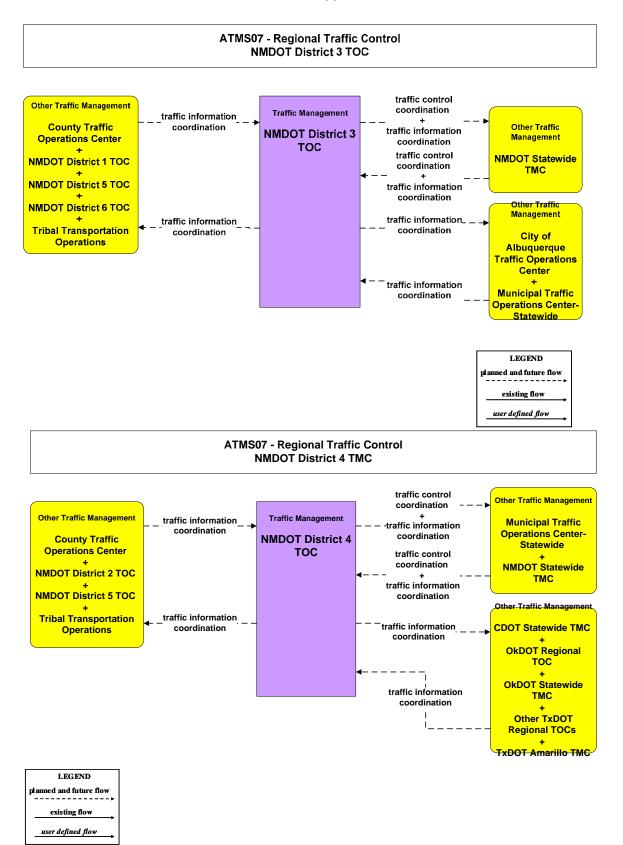






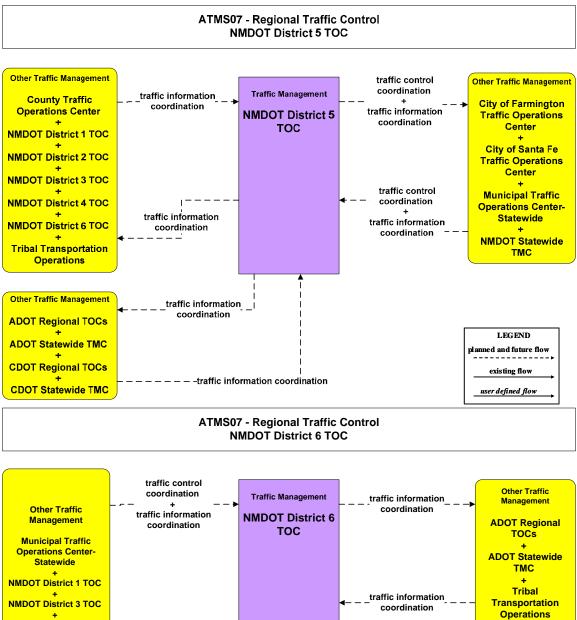


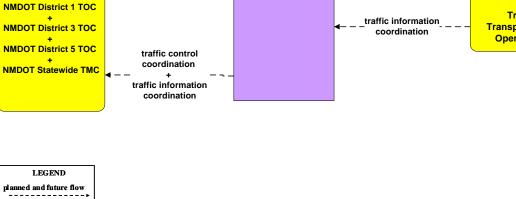








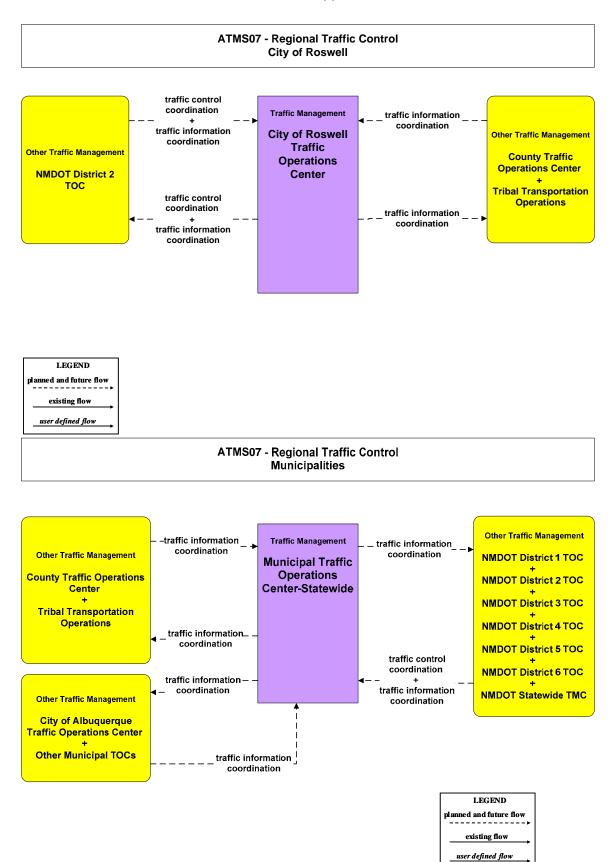






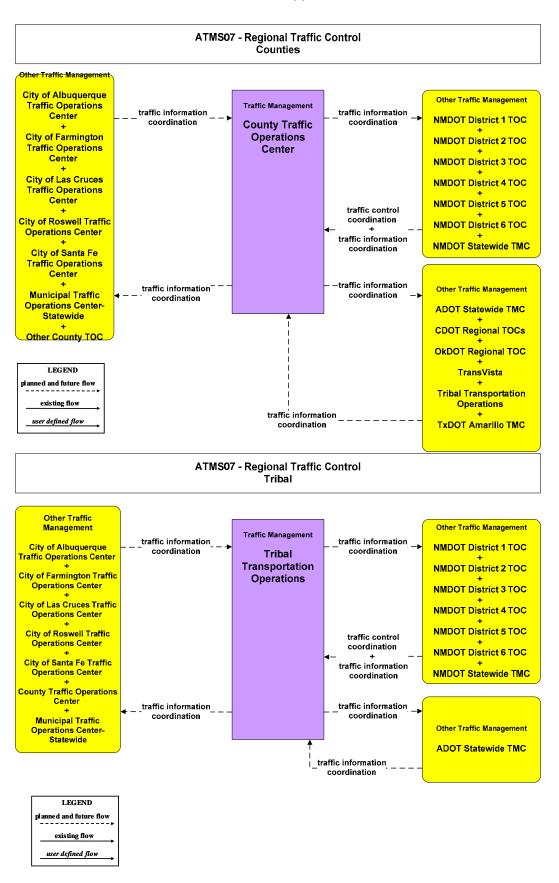
existing flow user defined flow















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

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

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

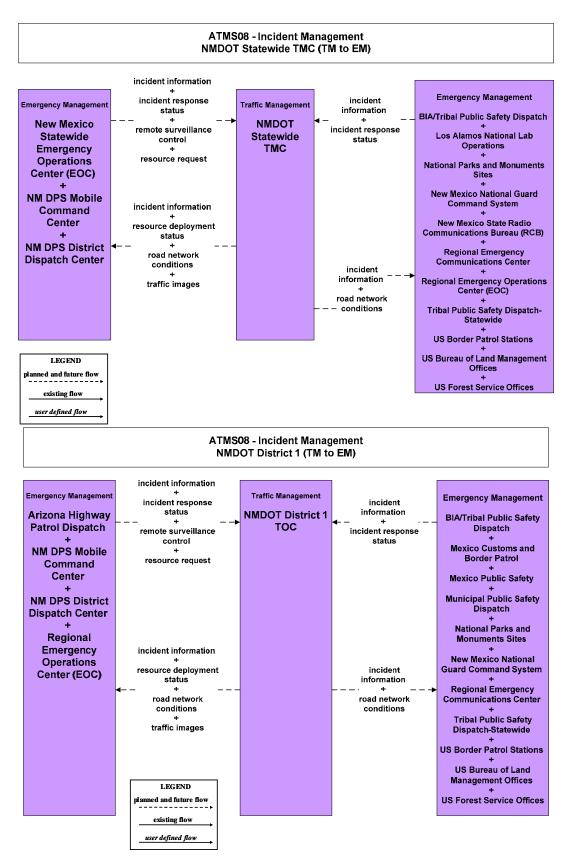
<u>EM2 Covered</u> Emergency Vehicle Preemption

ATMS08 - Incident Management

Traffic Management ← → Emergency Management

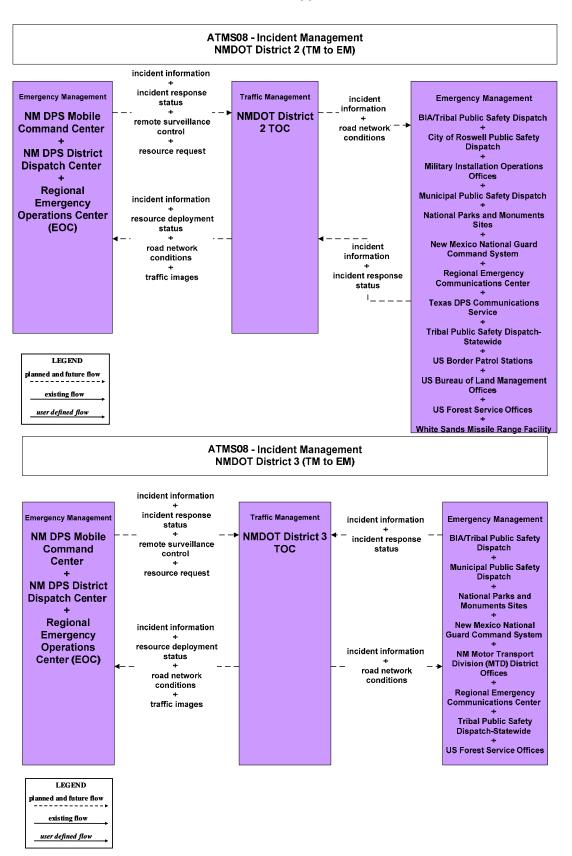






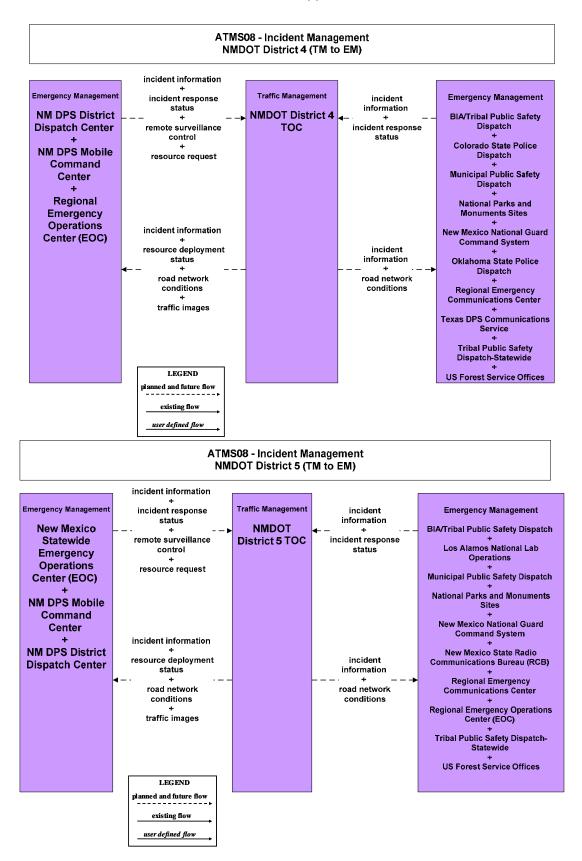






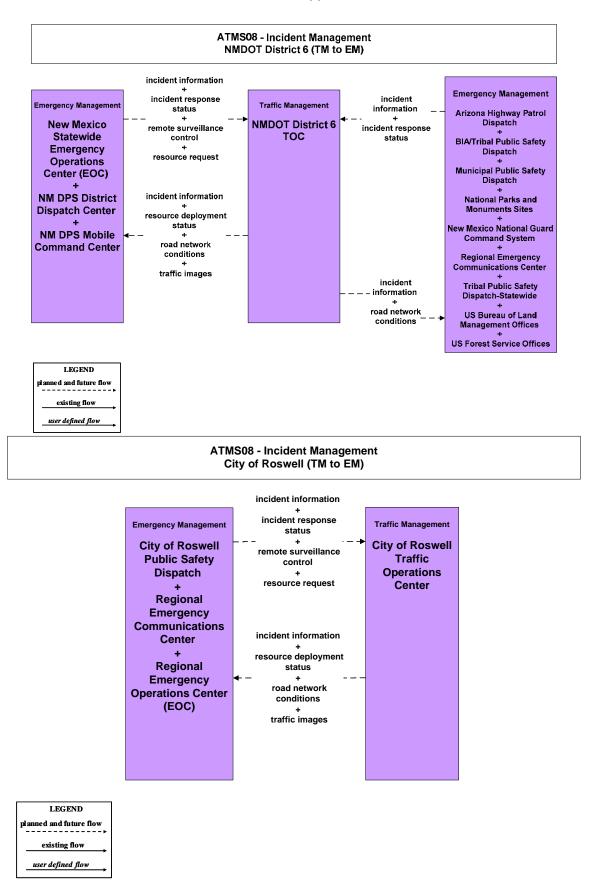






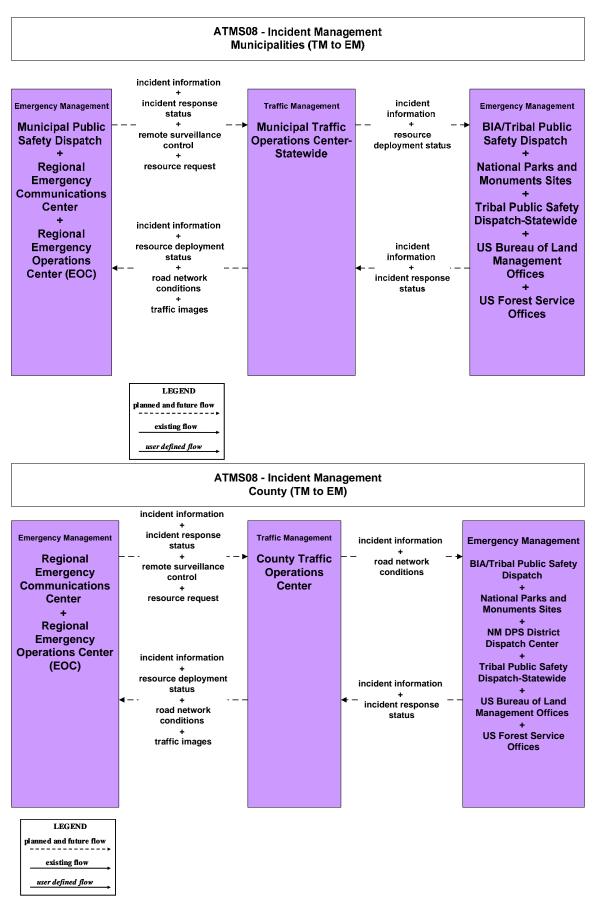




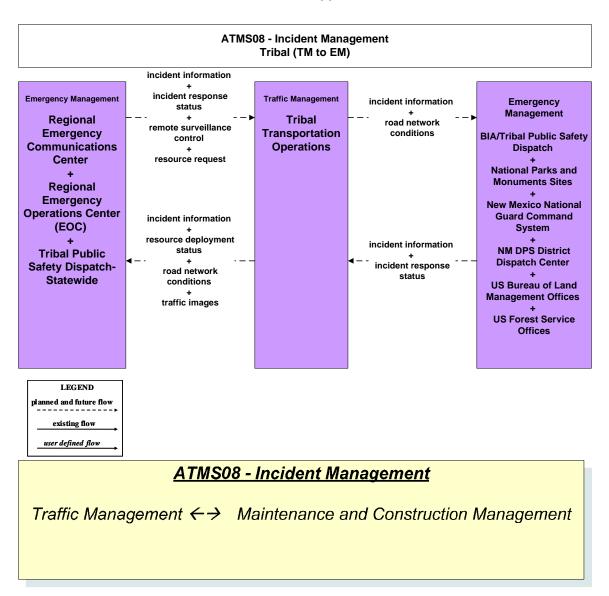






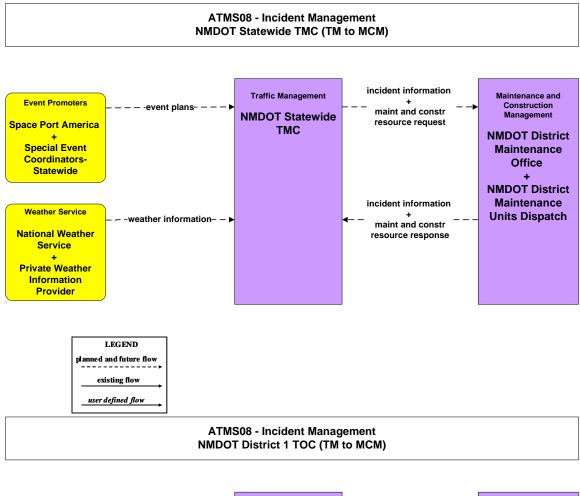


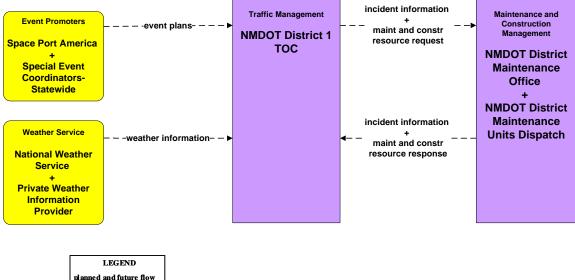








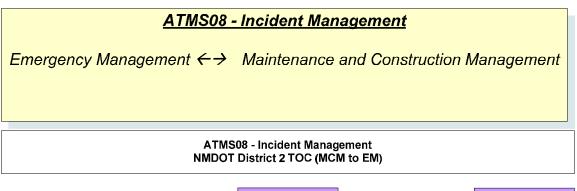


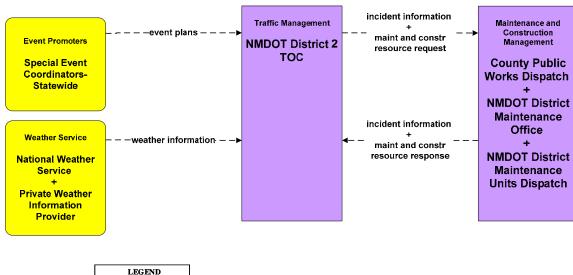










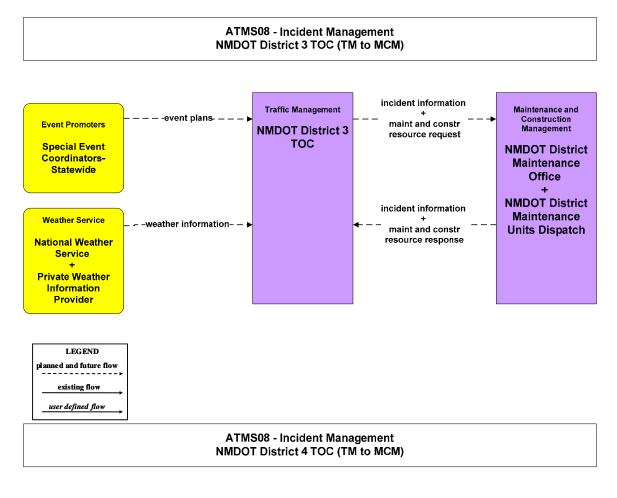


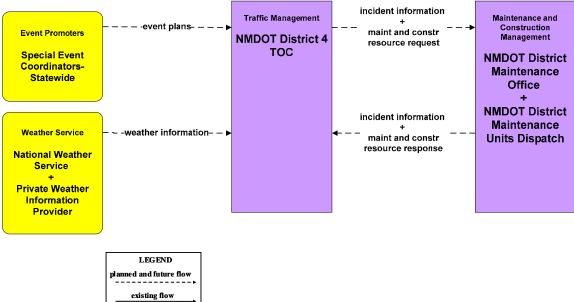
ned and future flow

existing flow user defined flow

pl a



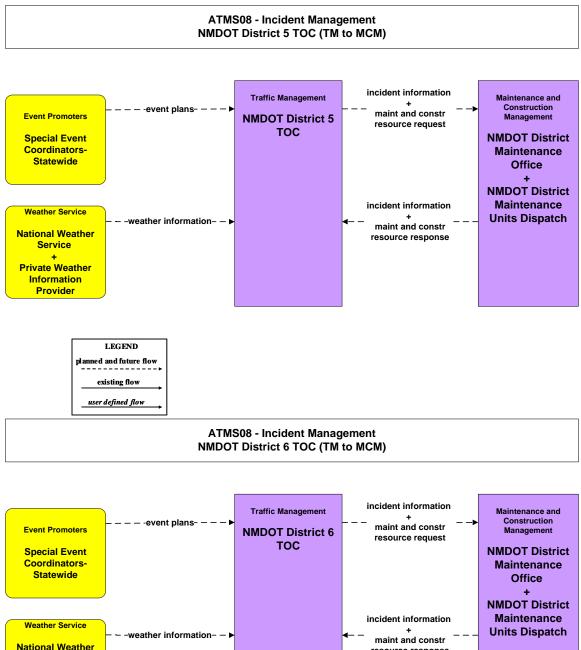






user defined flow

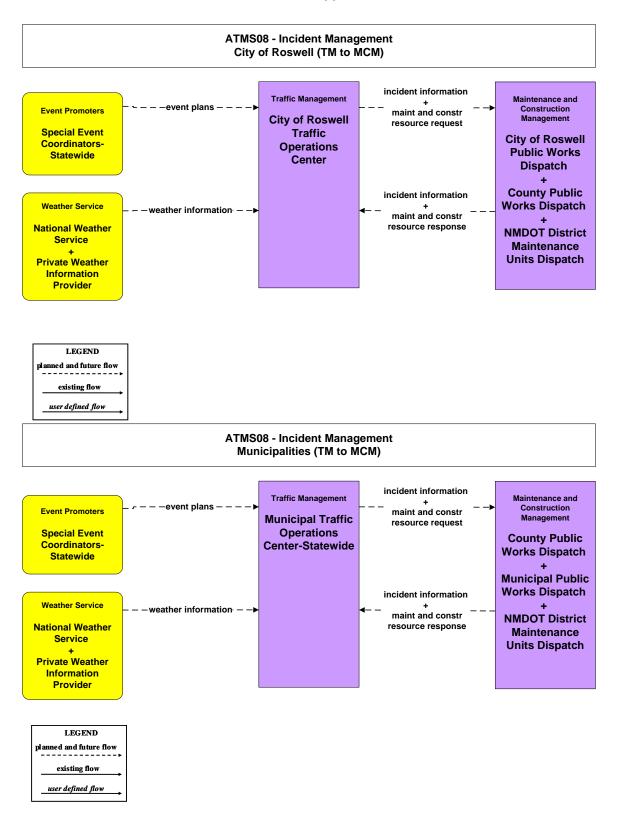






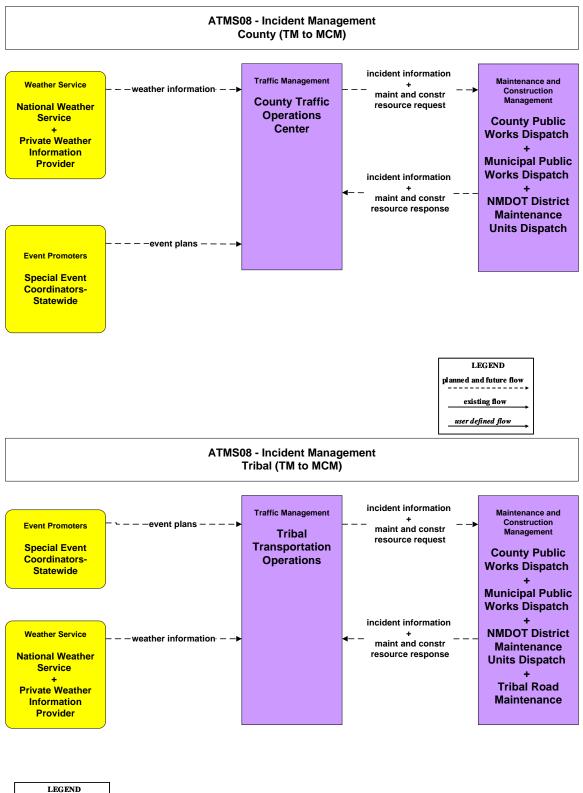
existing flow user defined flow







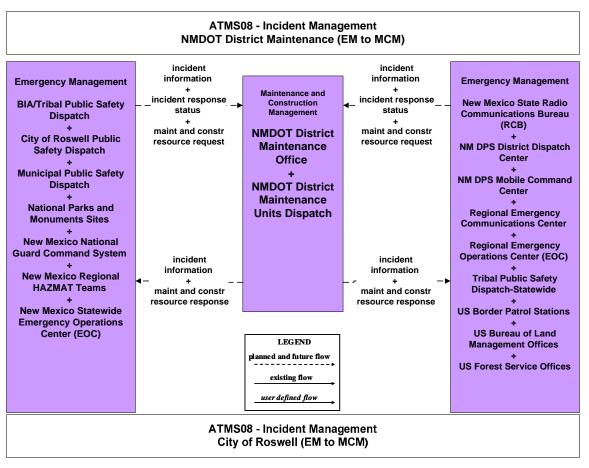


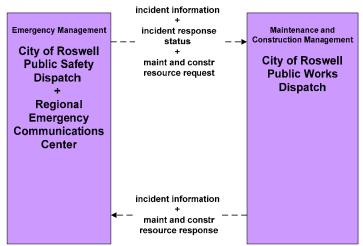








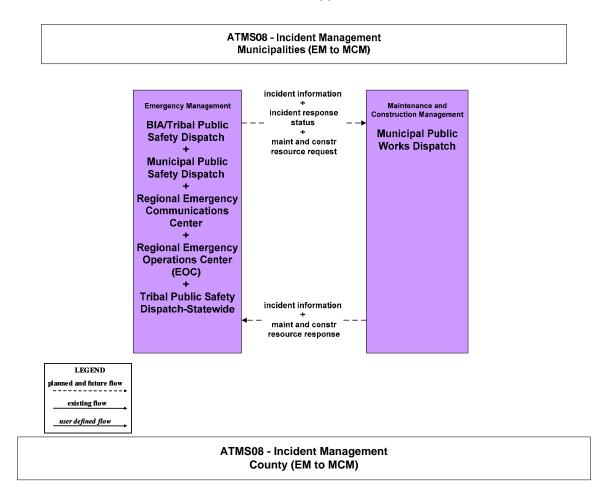


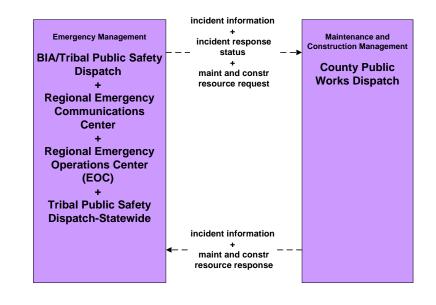








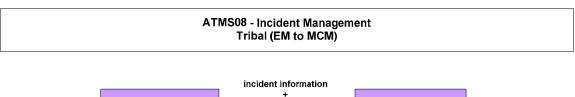


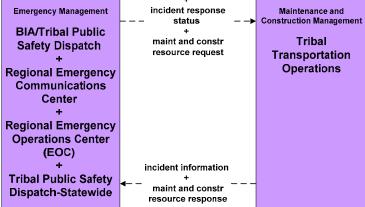


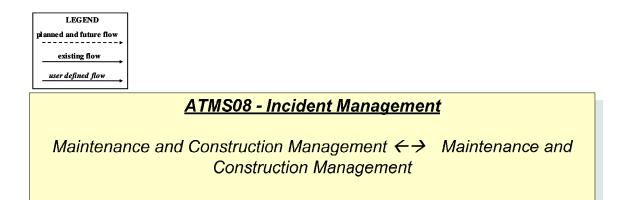








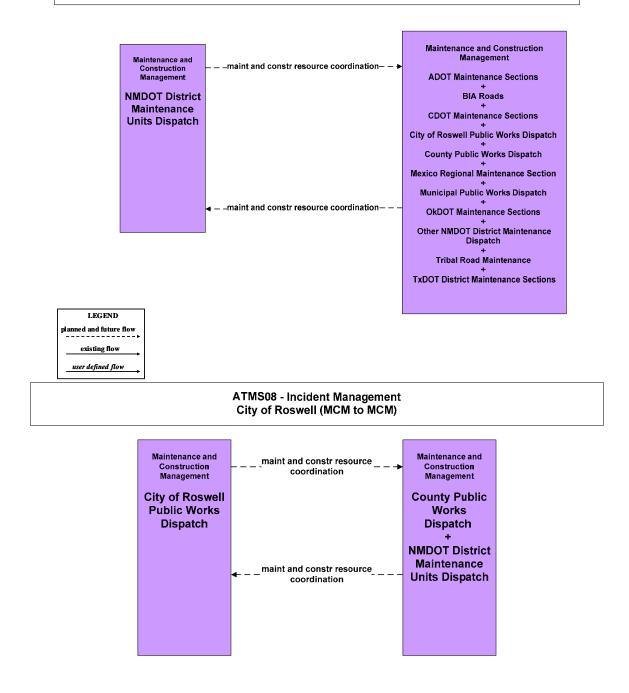








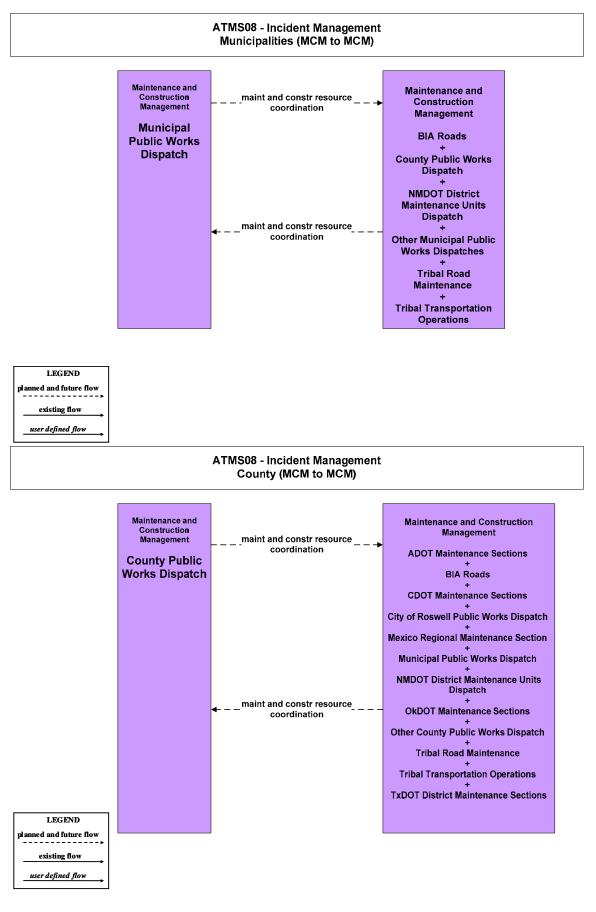
ATMS08 - Incident Management NMDOT District Maintenance (MCM to MCM)



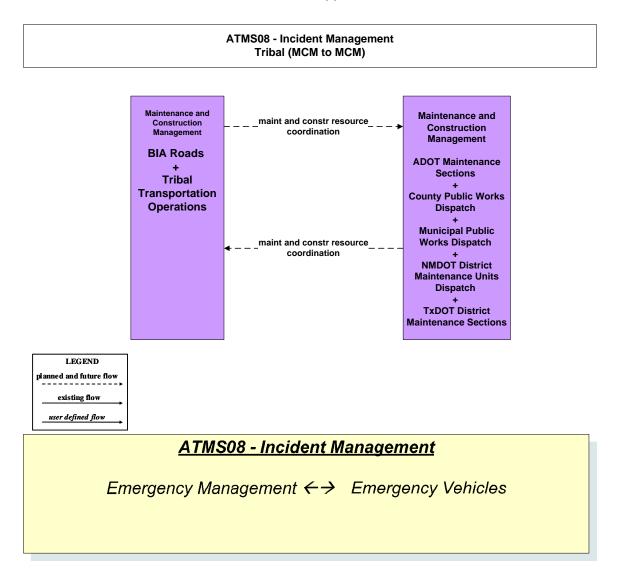






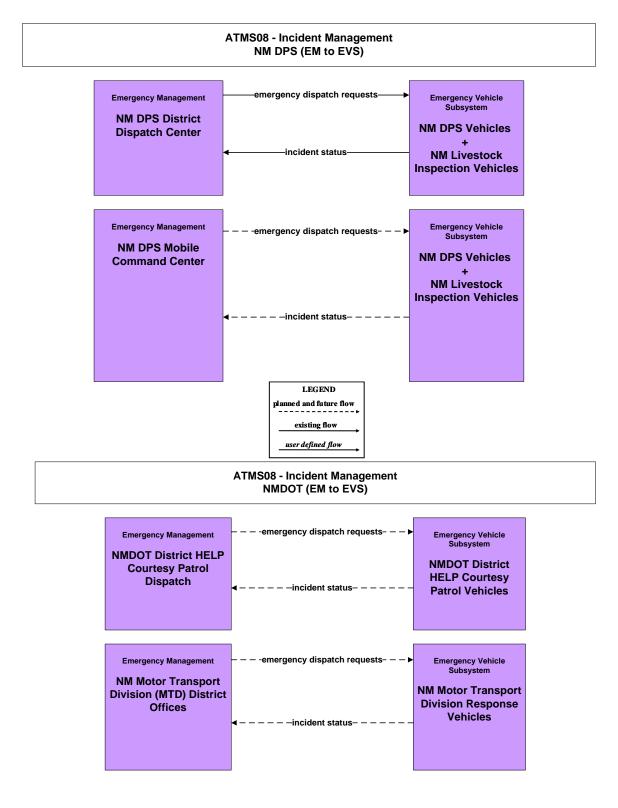








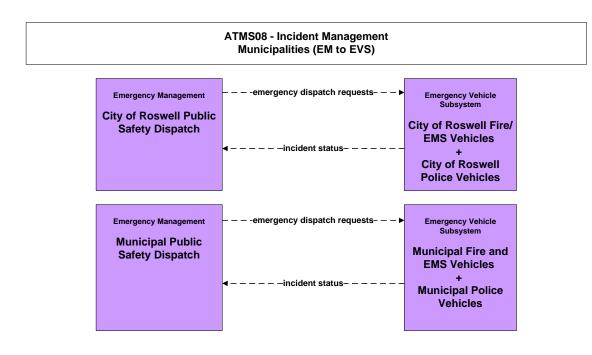




LEGEND
planned and future flow
existing flow
_user defined flow

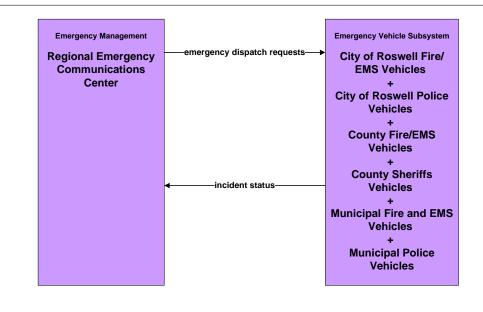








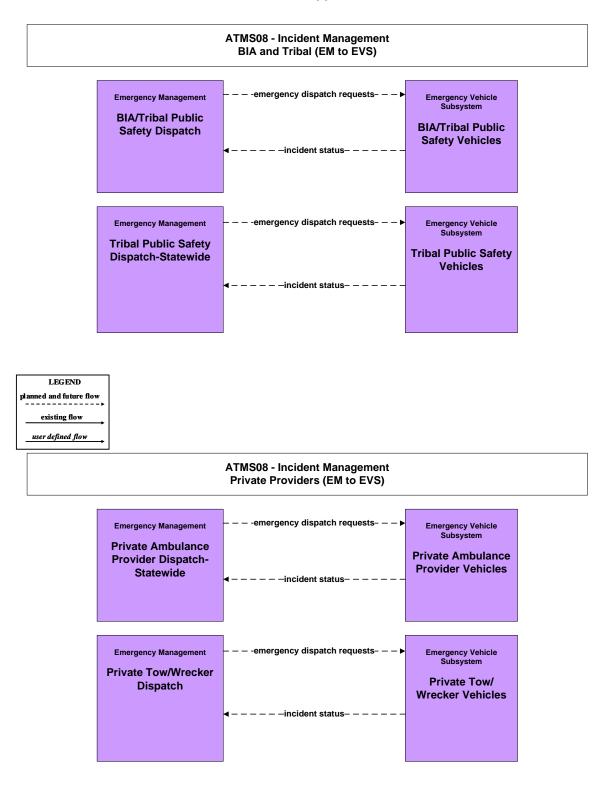
ATMS08 - Incident Management RECC (EM to EVS)

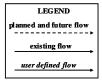






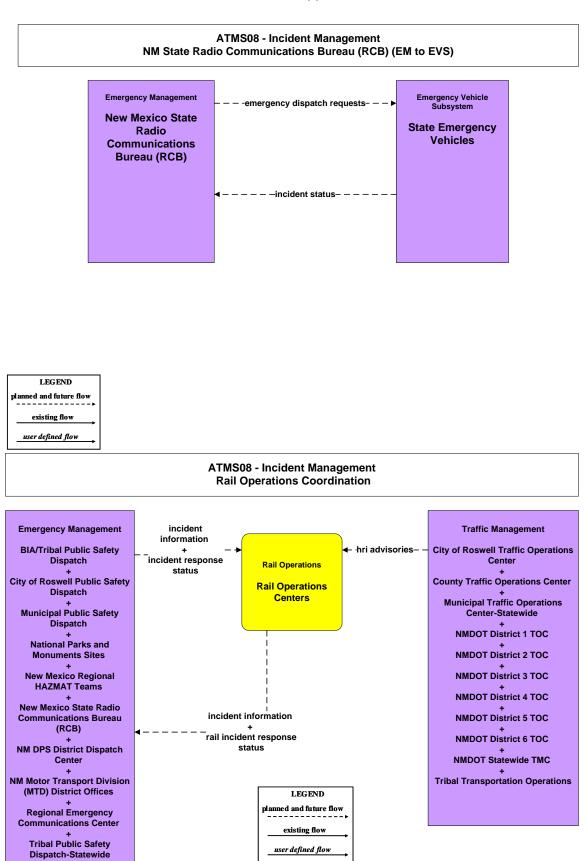






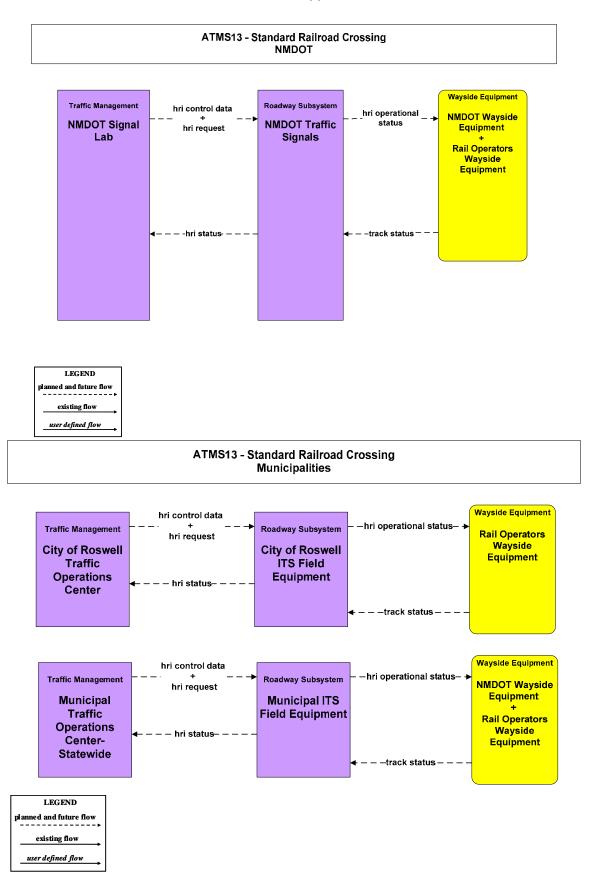






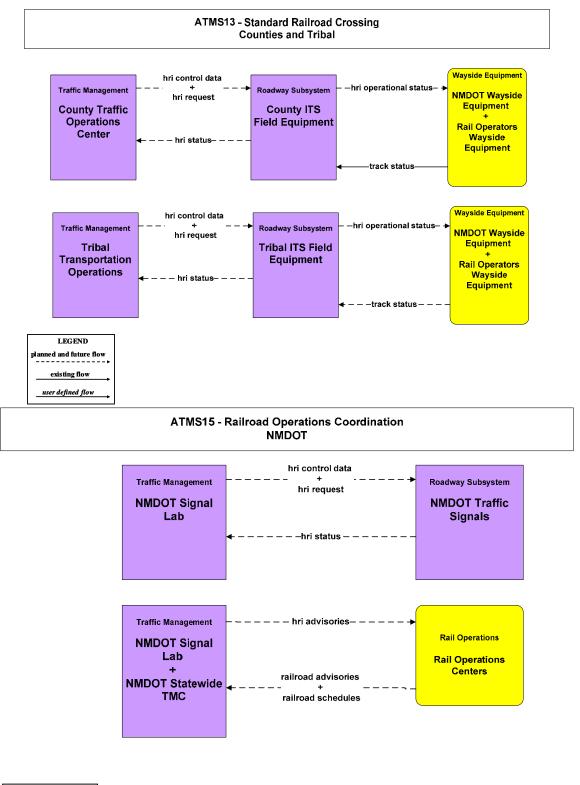








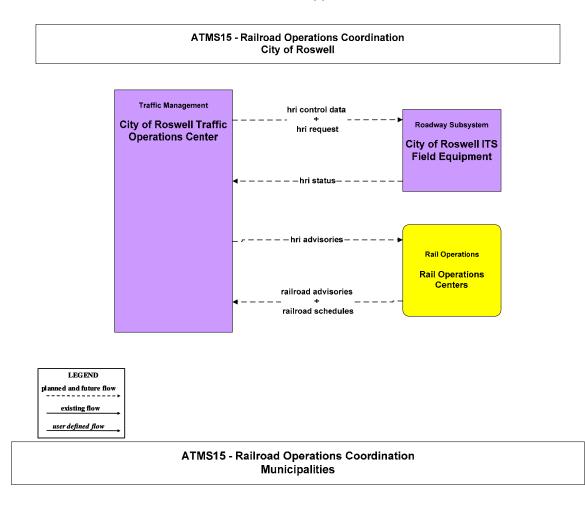


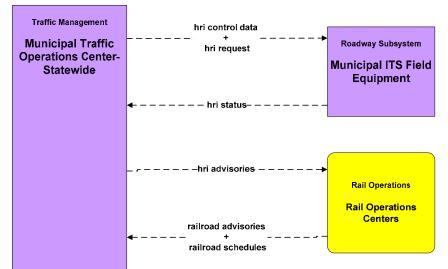








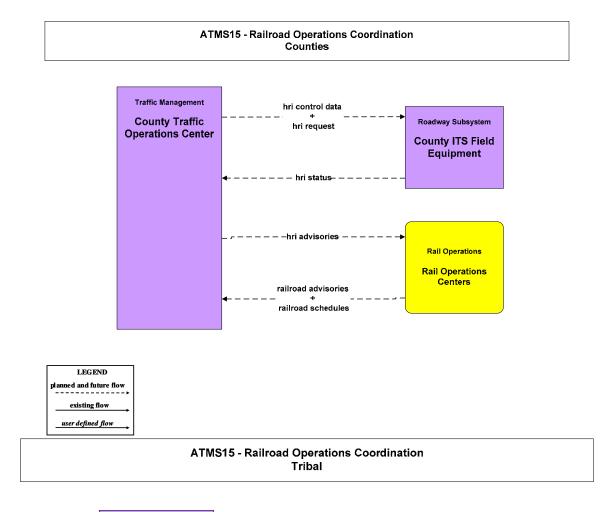


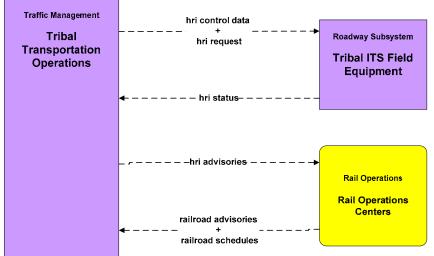








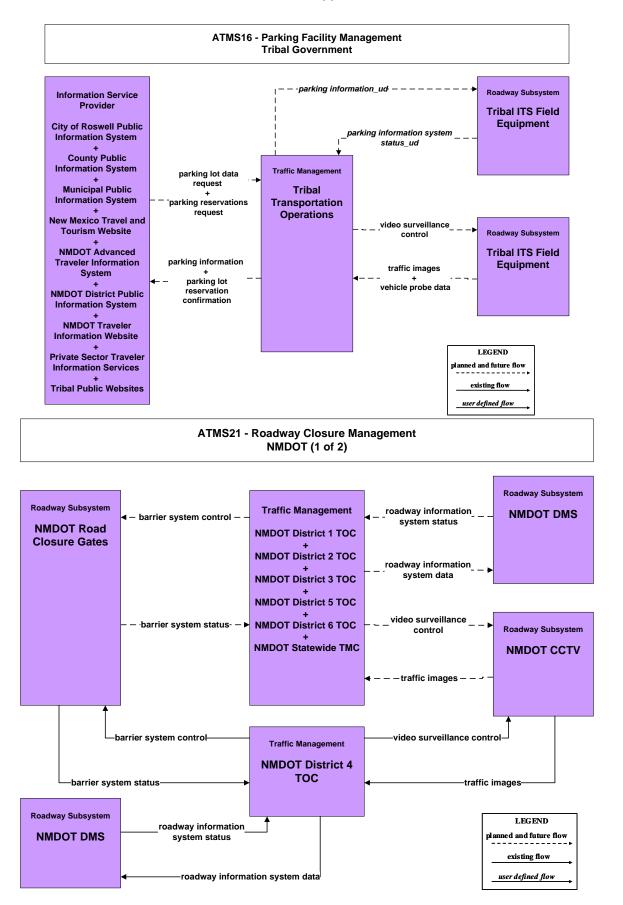






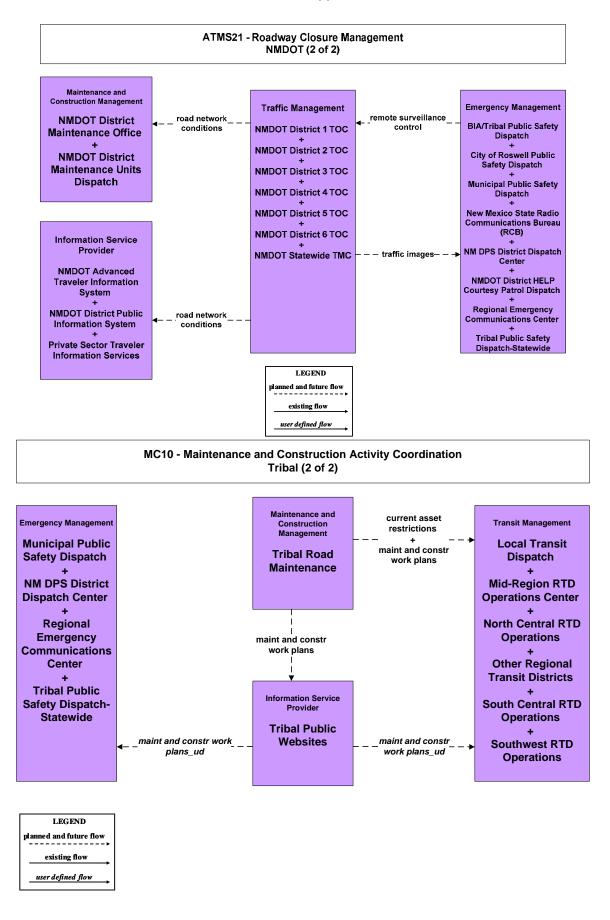










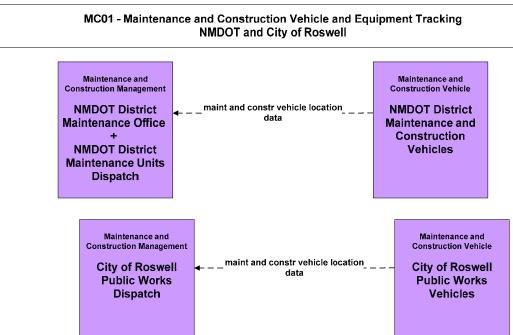




New Mexico Statewide ITS Architecture

Customized Market Package Diagrams

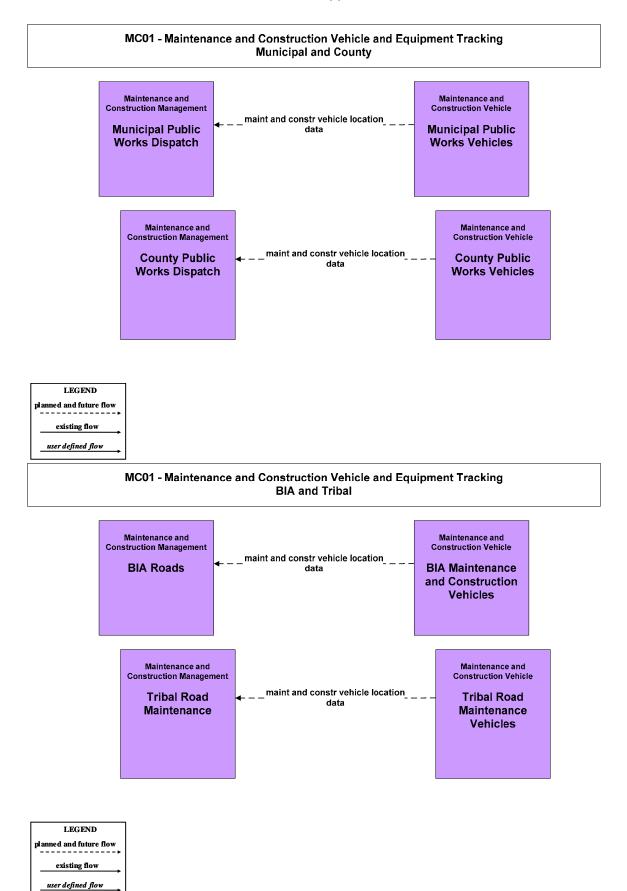
Maintenance and Construction (MC)



LEGEND planned and future flow existing flow user defined flow



Version 1.00

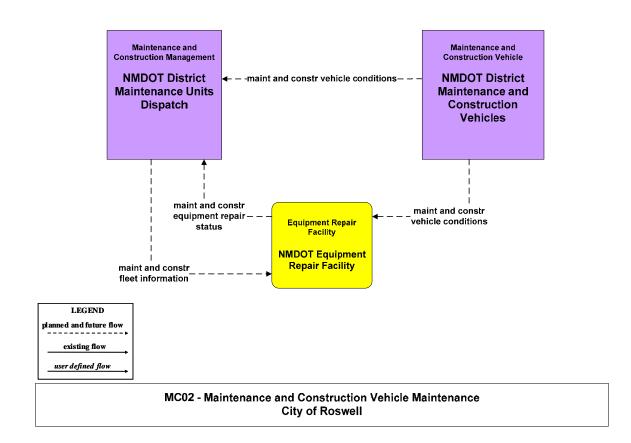


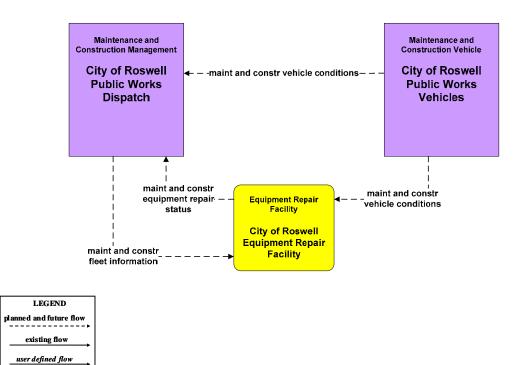


TRANSPORTATION





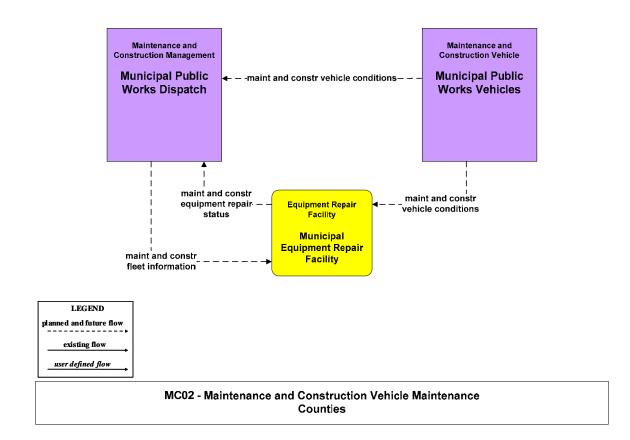


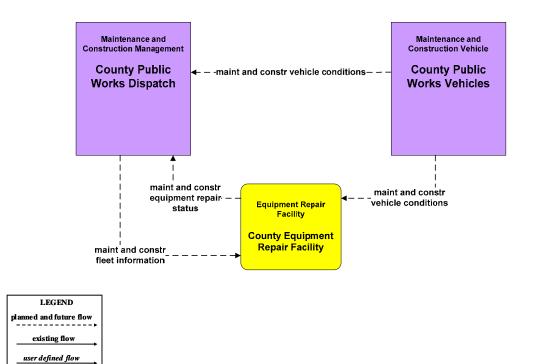








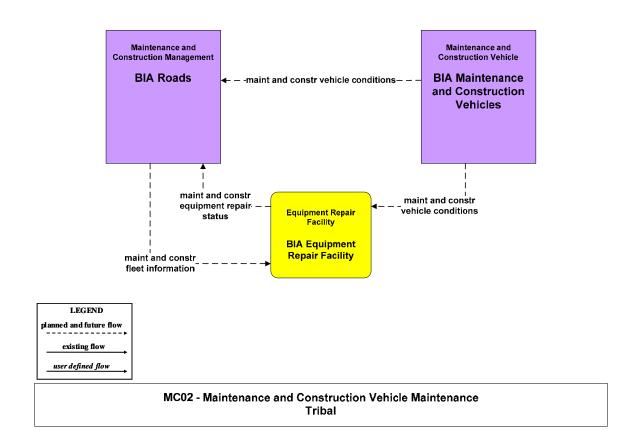


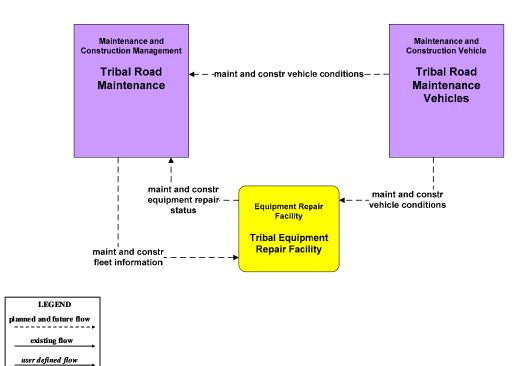






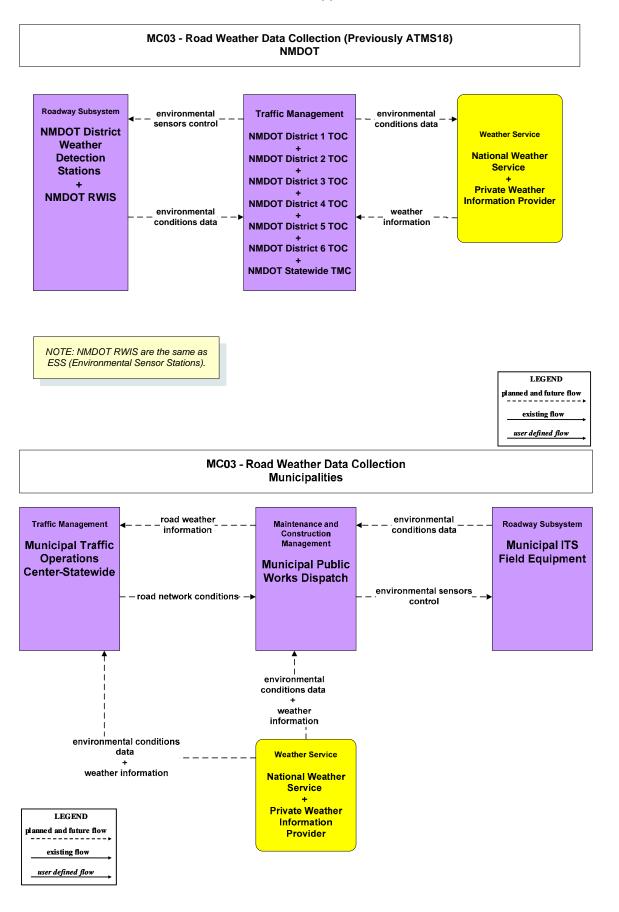






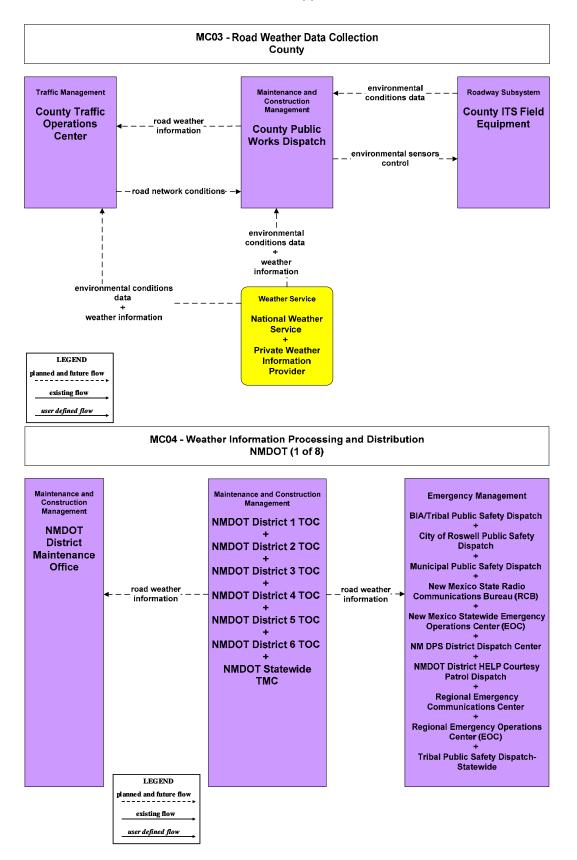






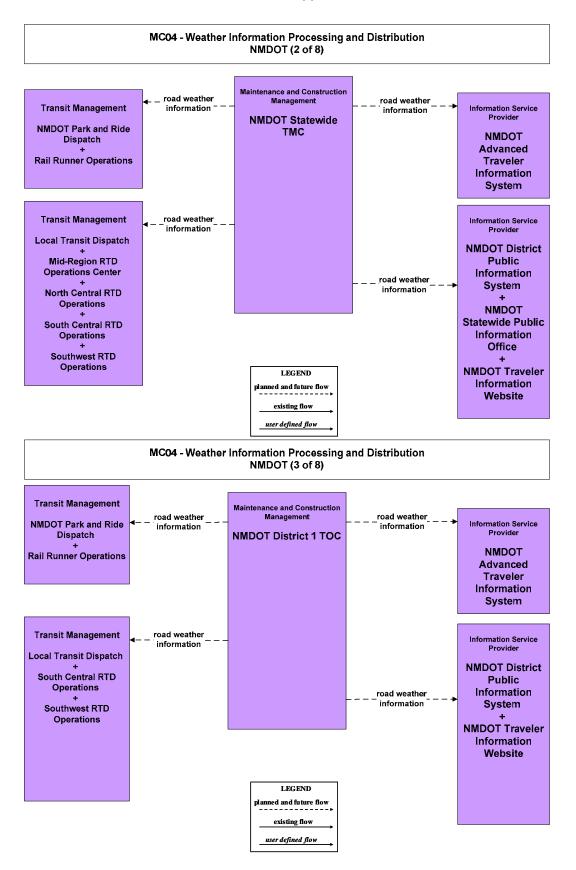






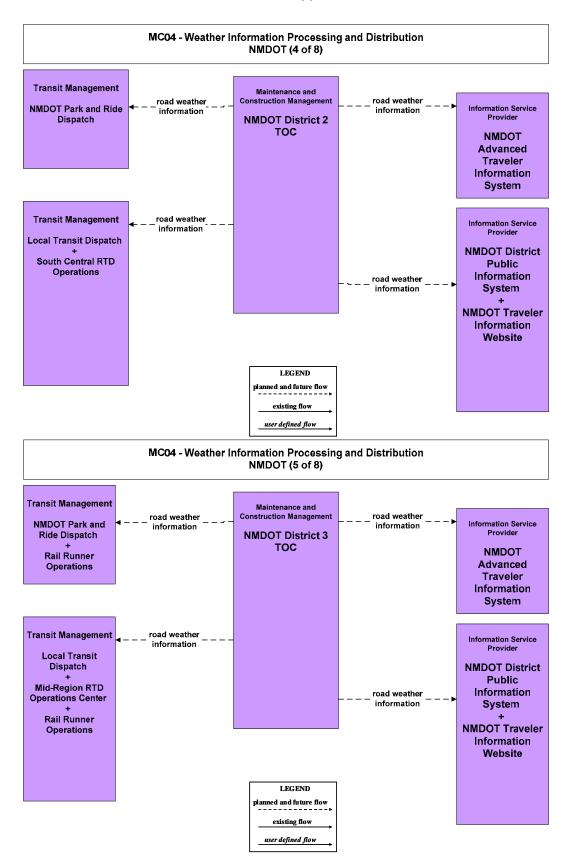






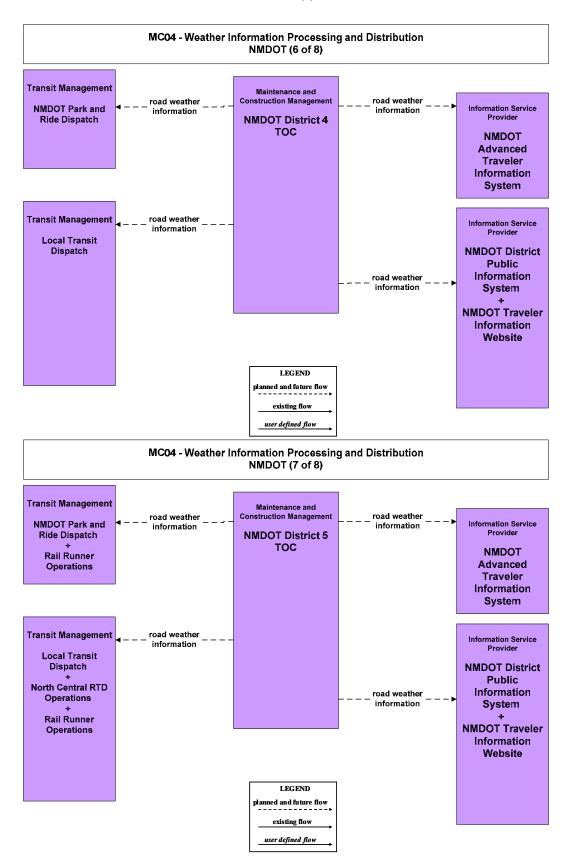






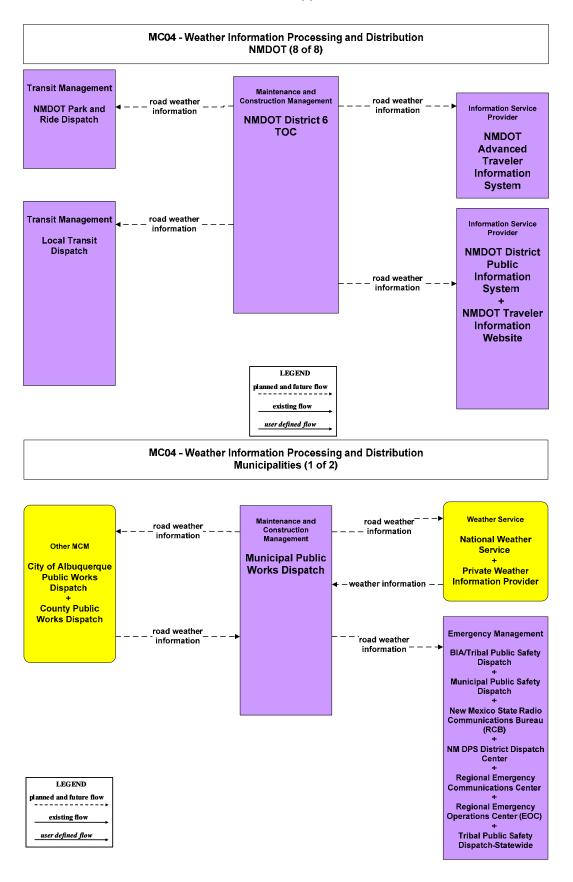






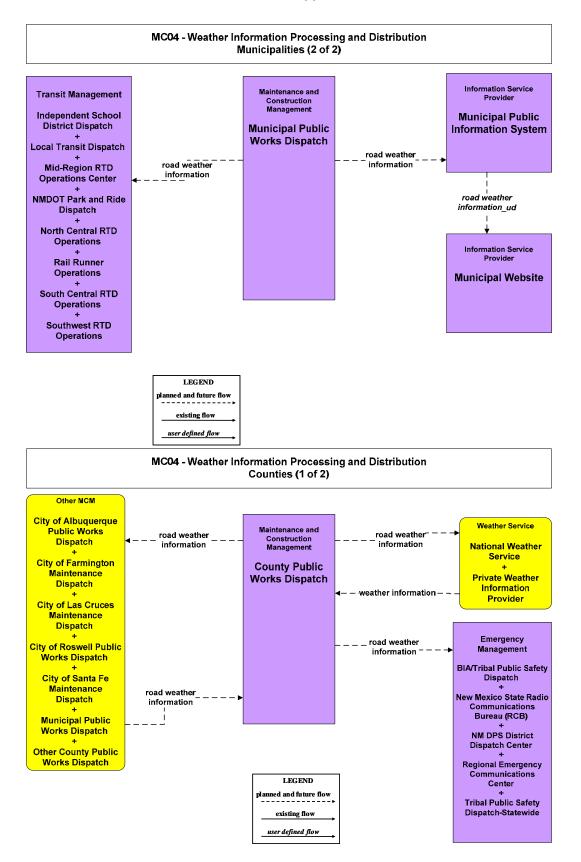






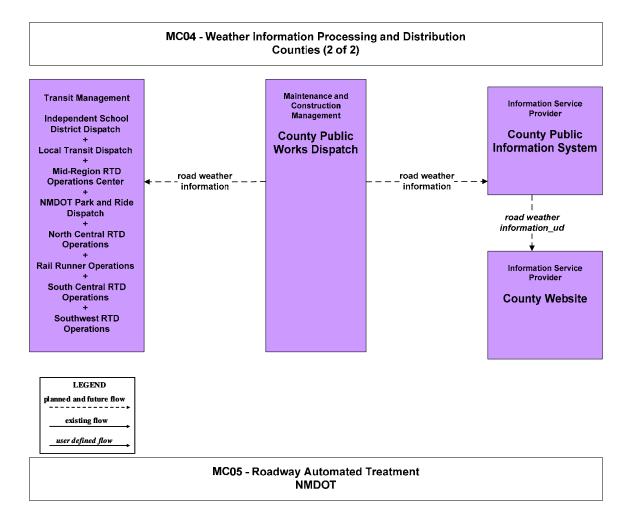


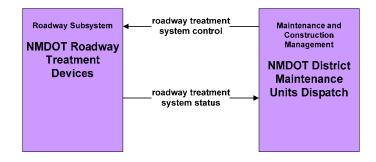








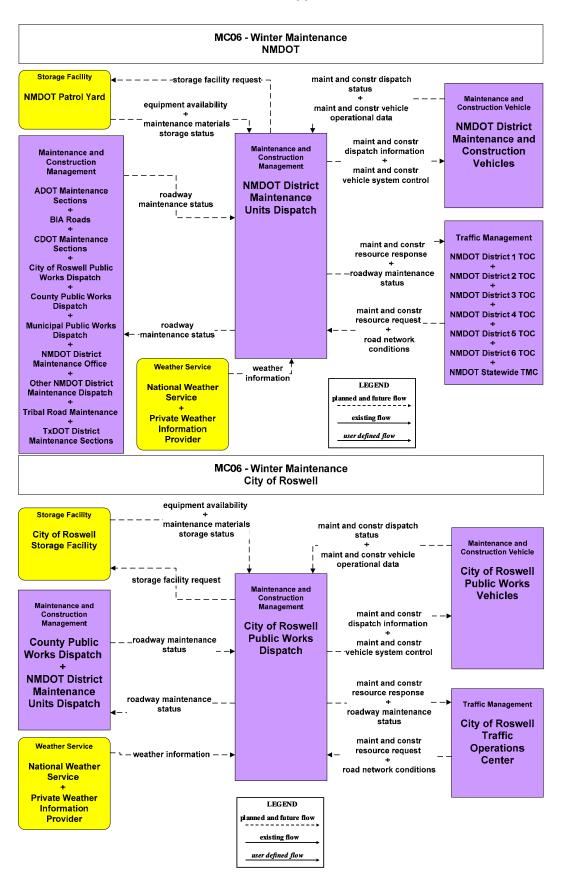






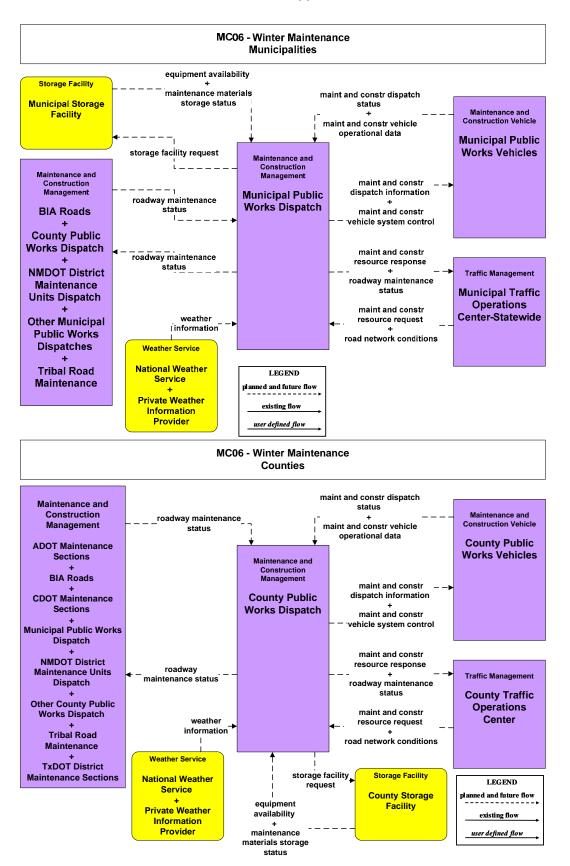






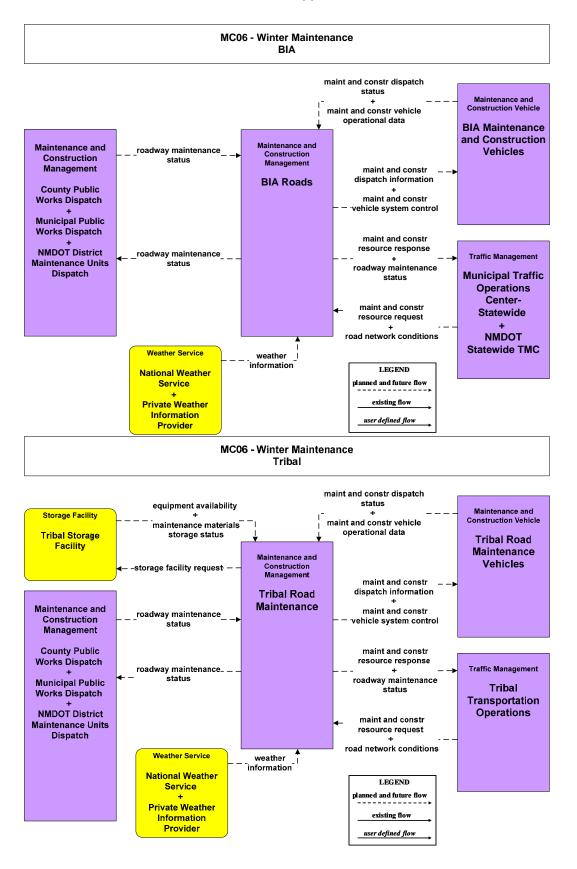






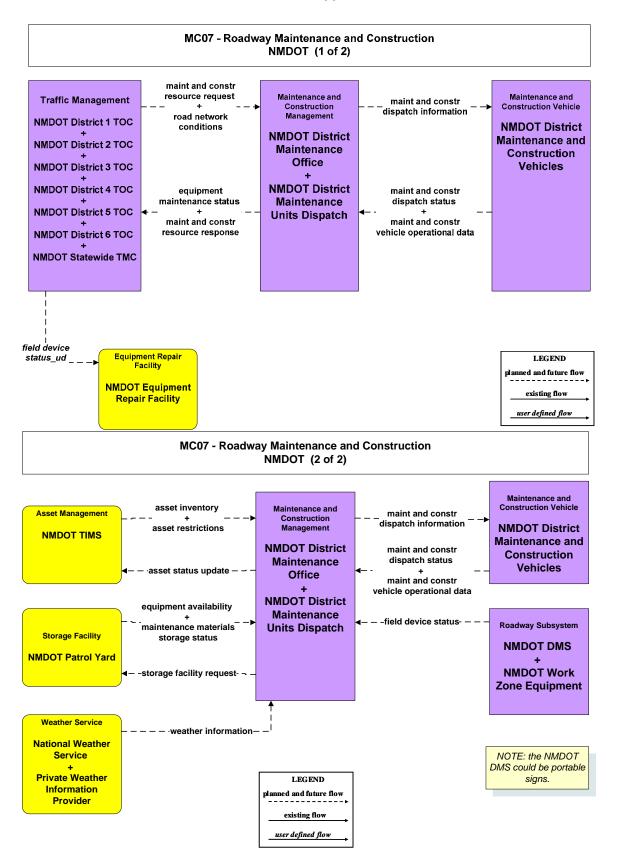






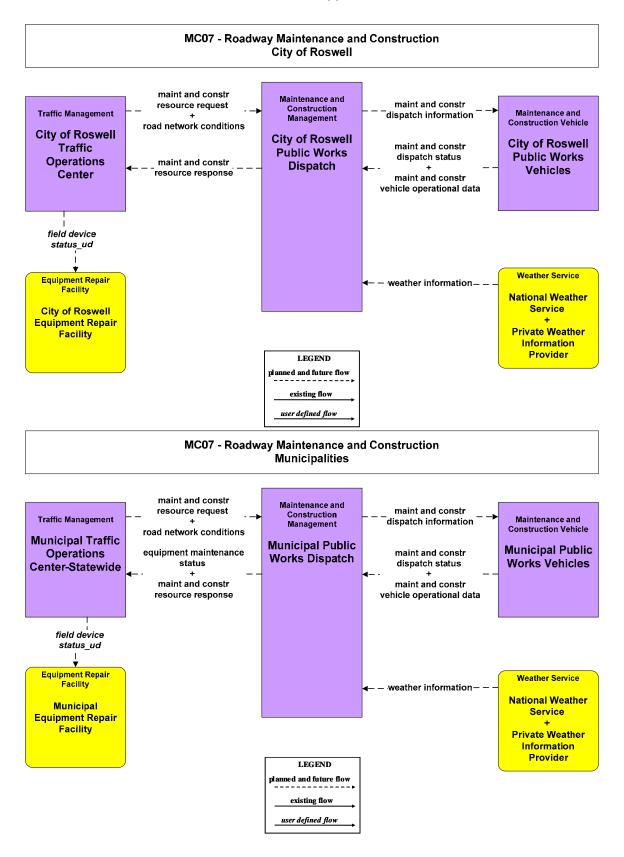






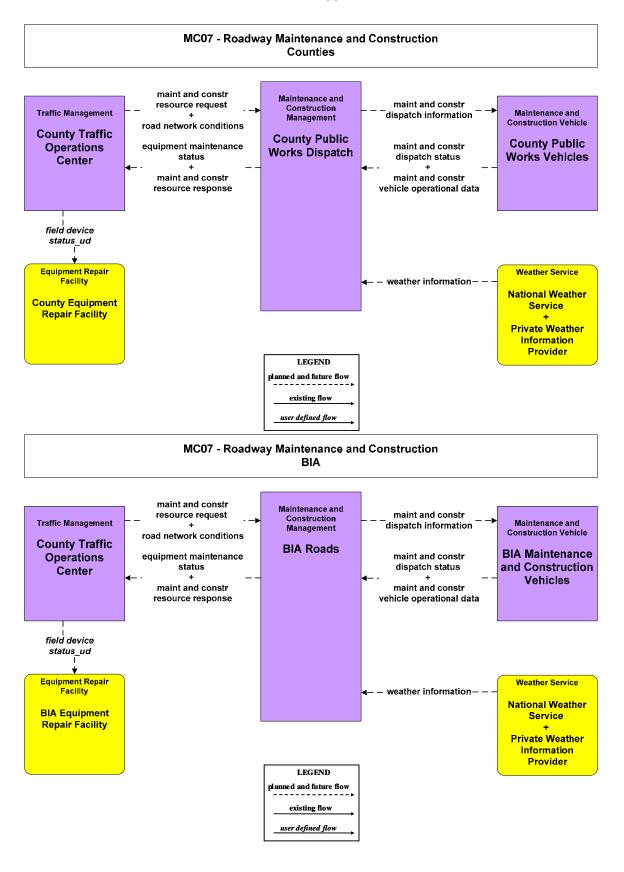






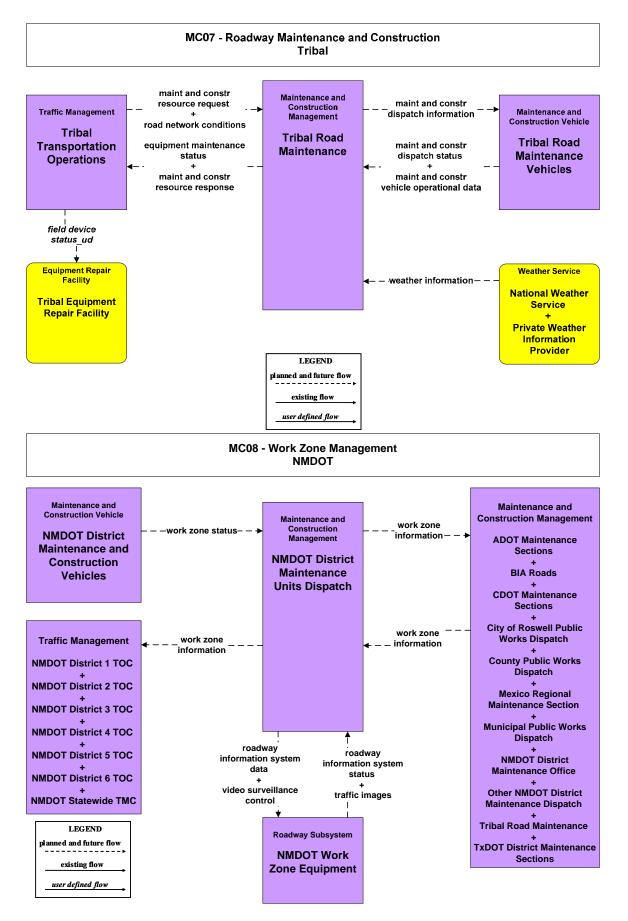




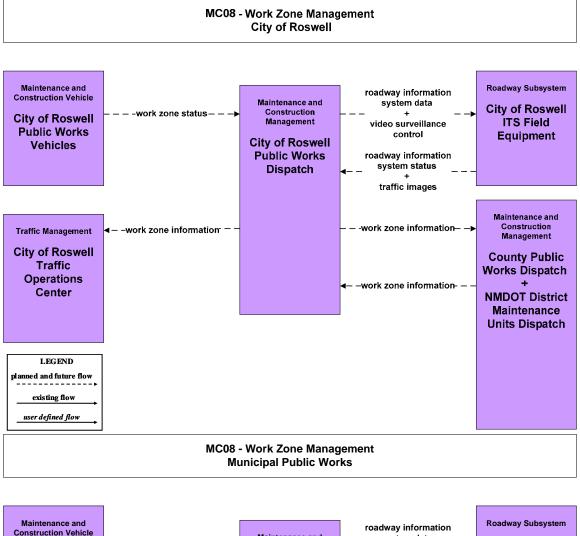


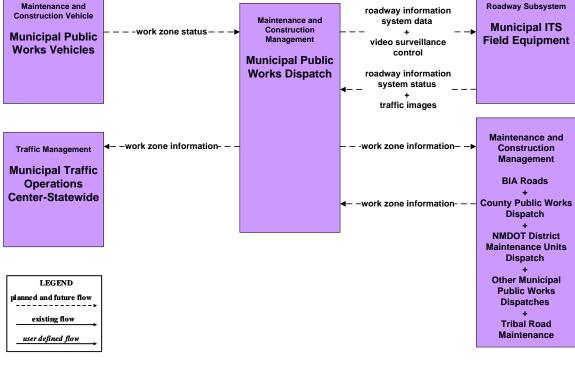






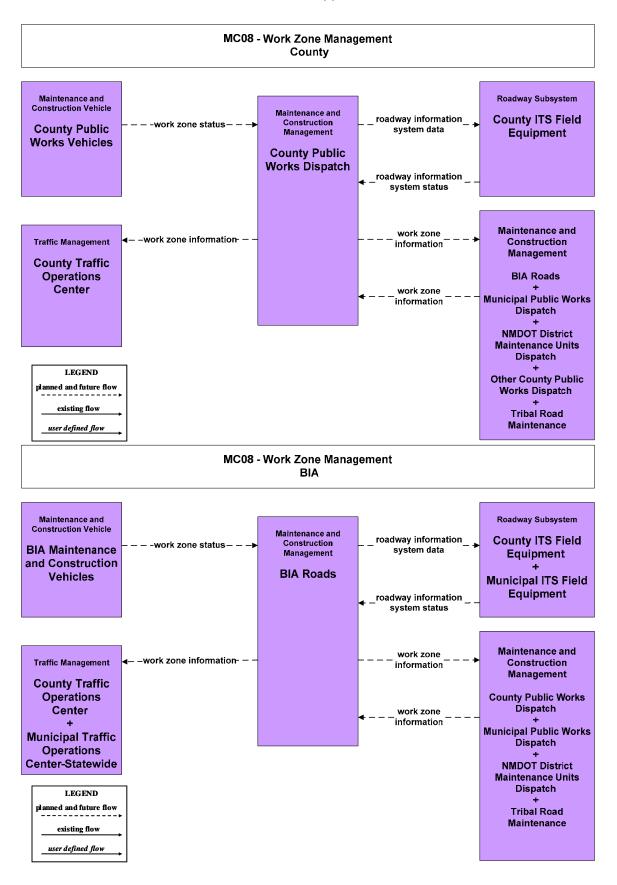




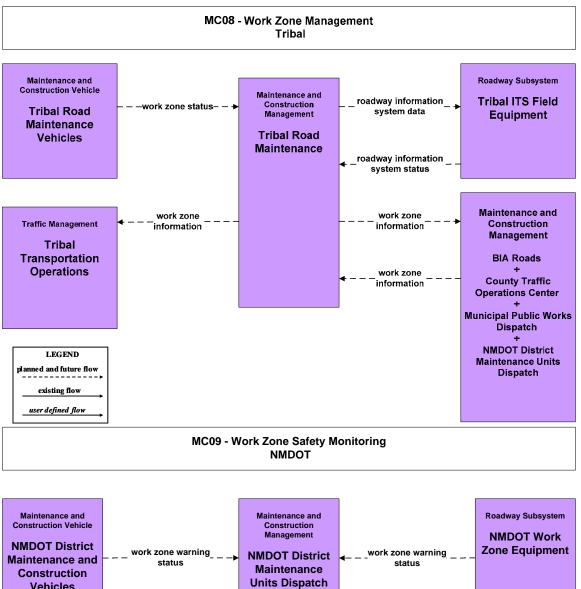


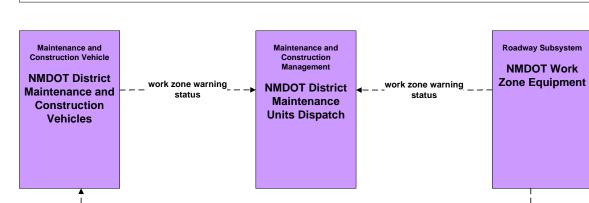










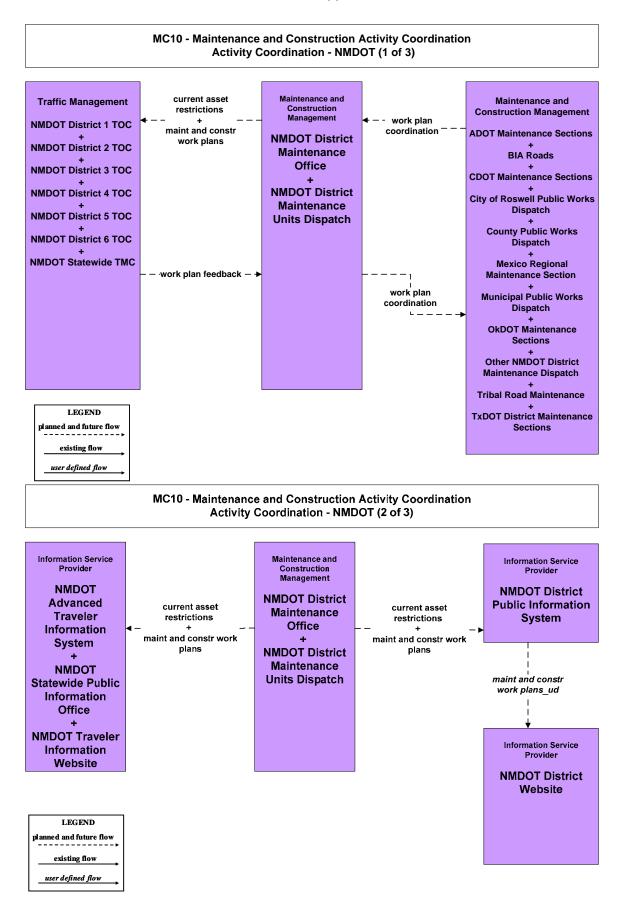


- -work zone warning notification-

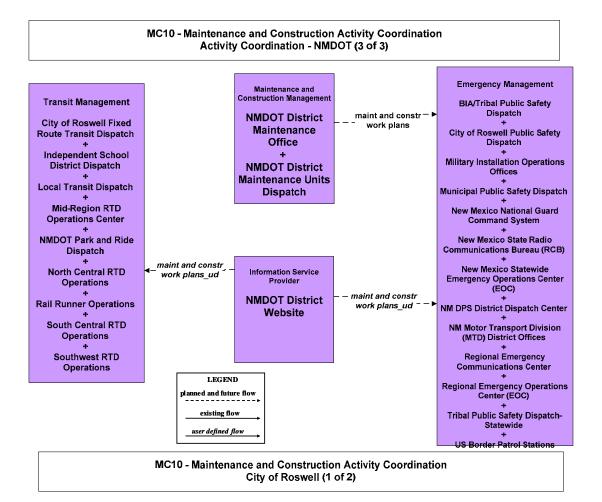
LEGEND
planned and future flow
existing flow
user defined flow

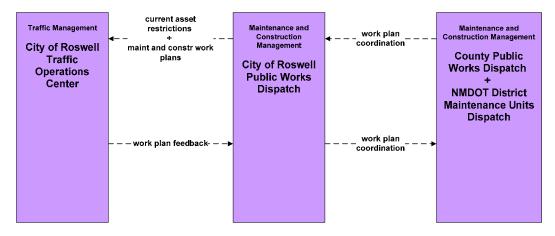








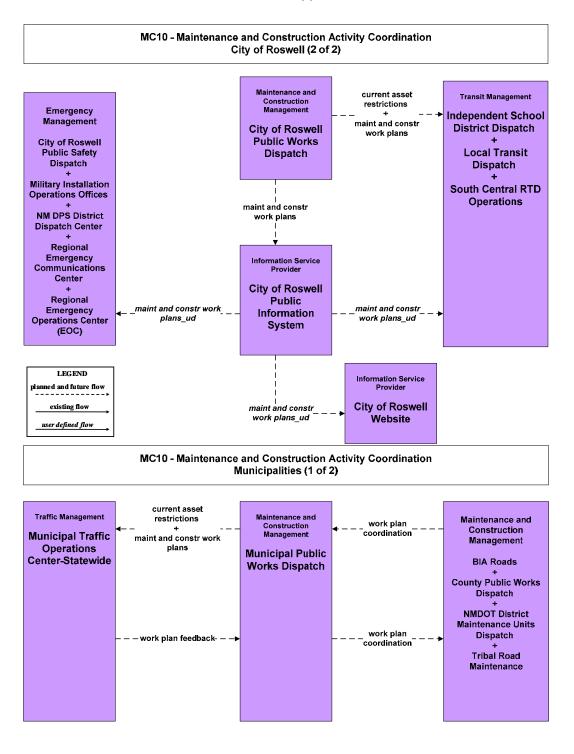








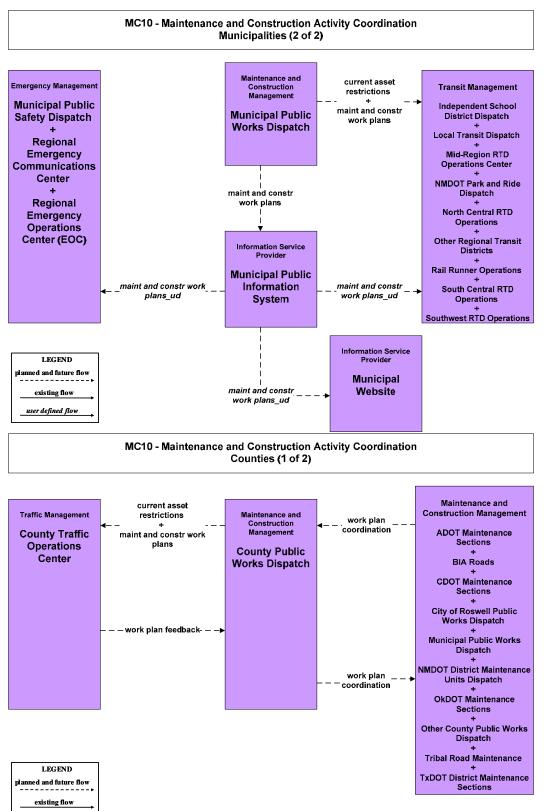








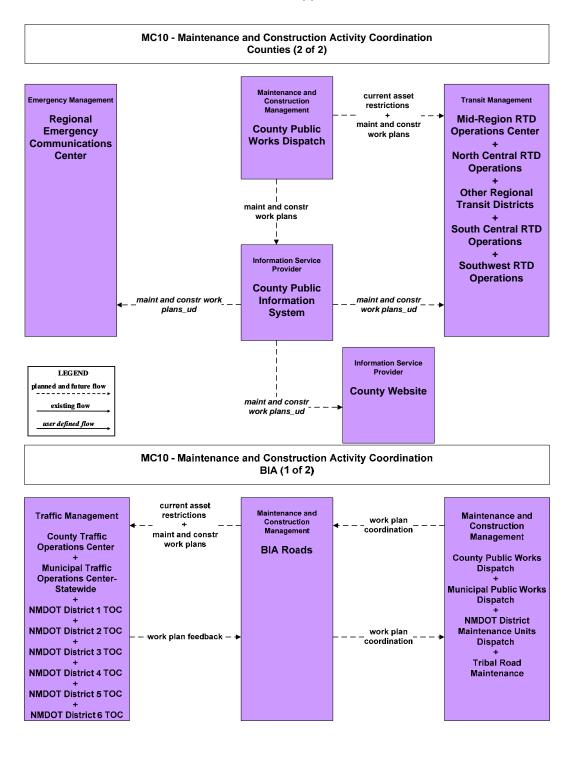




user defined flow



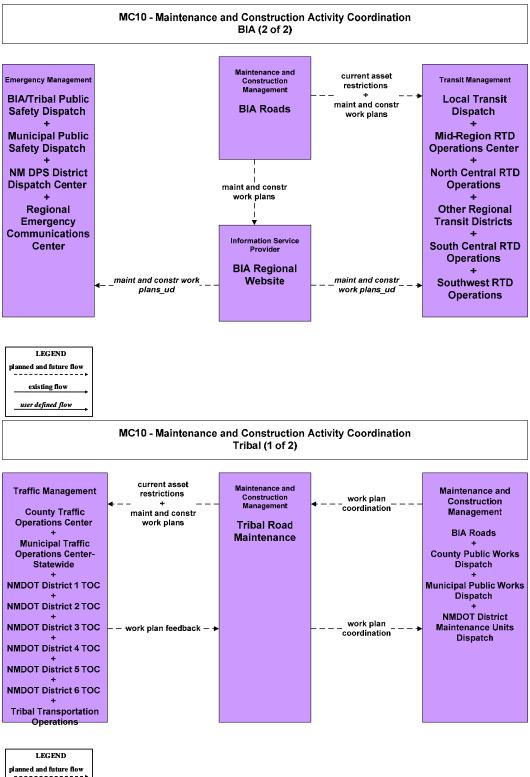








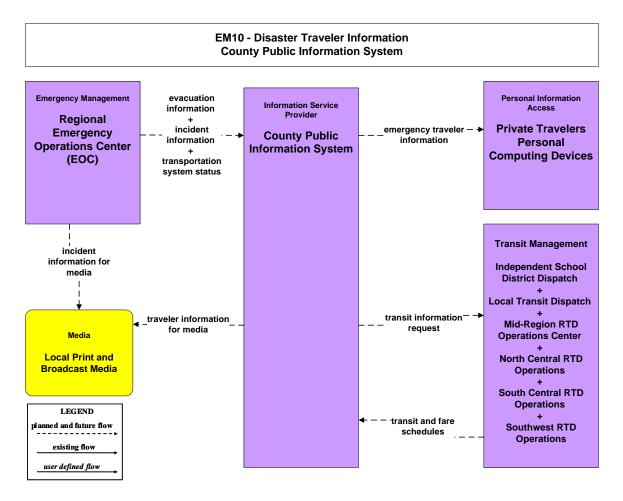












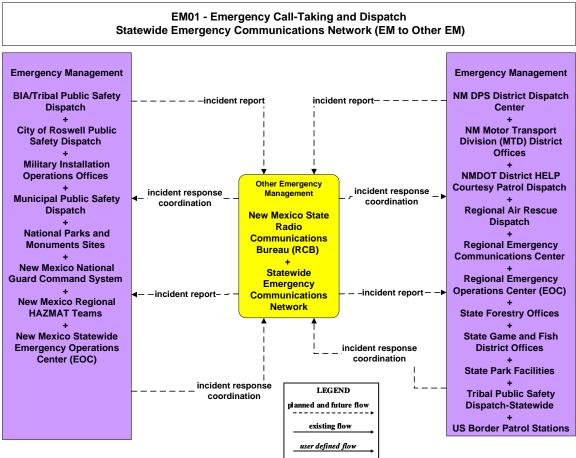




New Mexico Statewide ITS Architecture

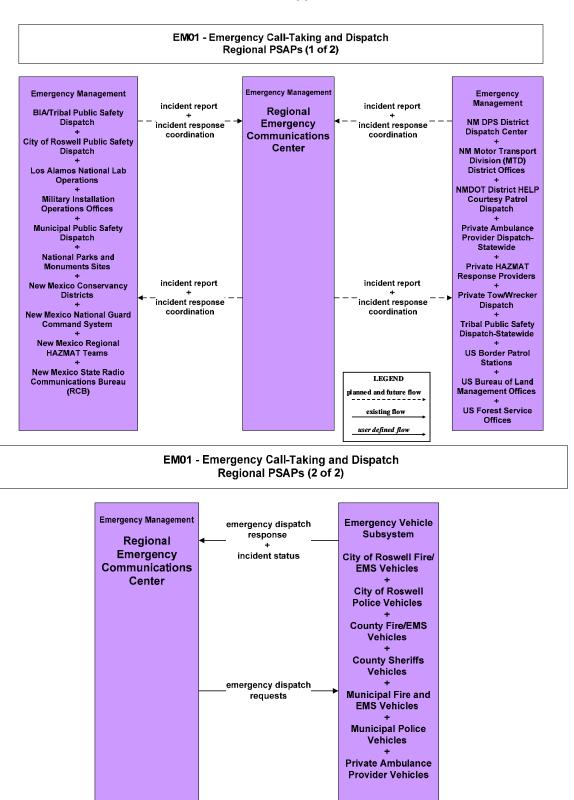
Customized Market Package Diagrams

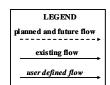
Emergency Management (EM)





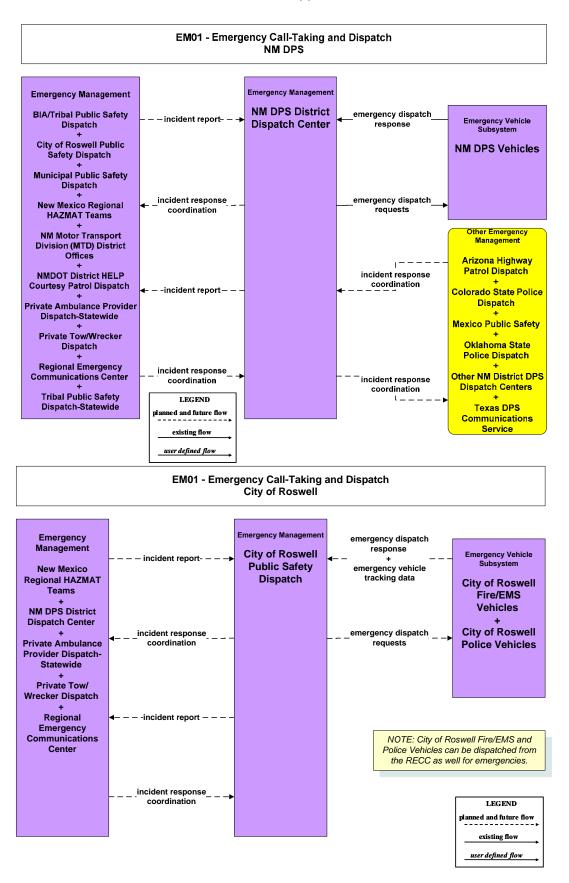






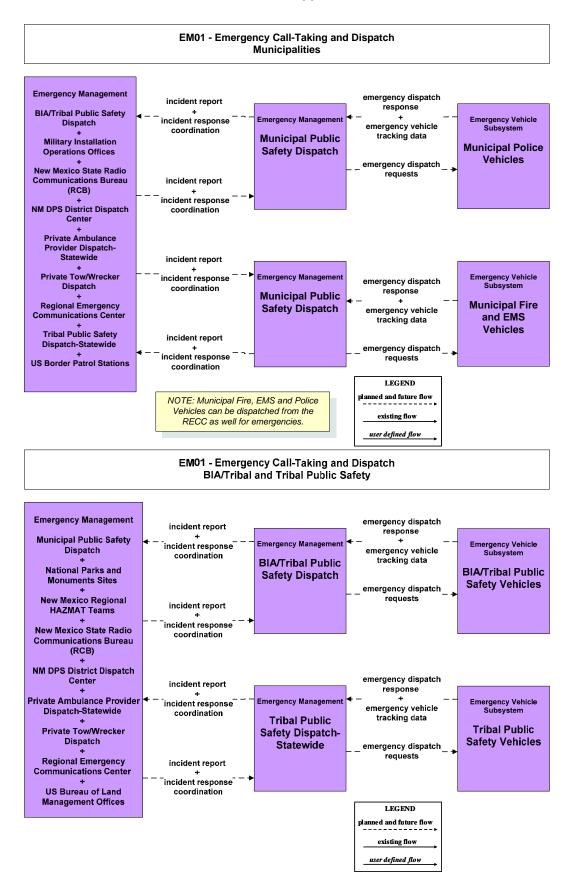






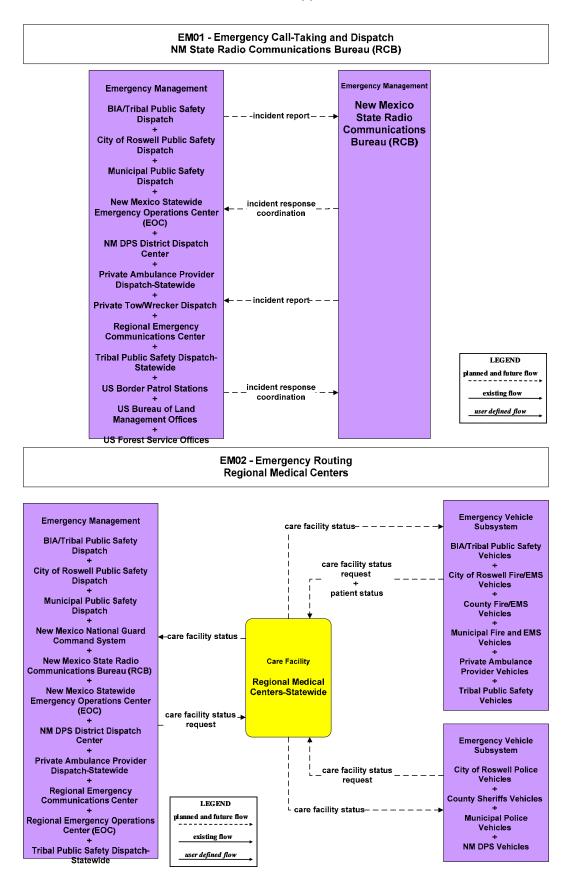






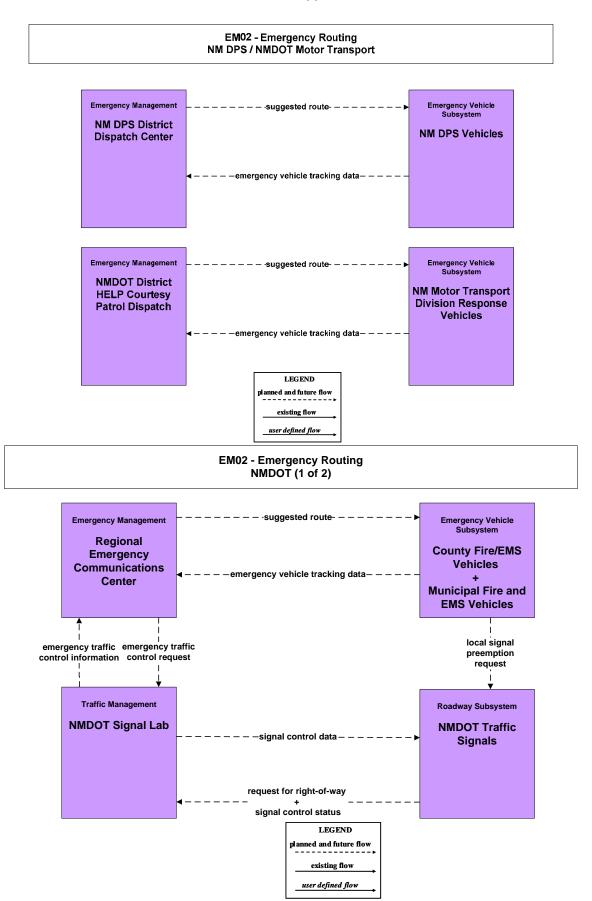






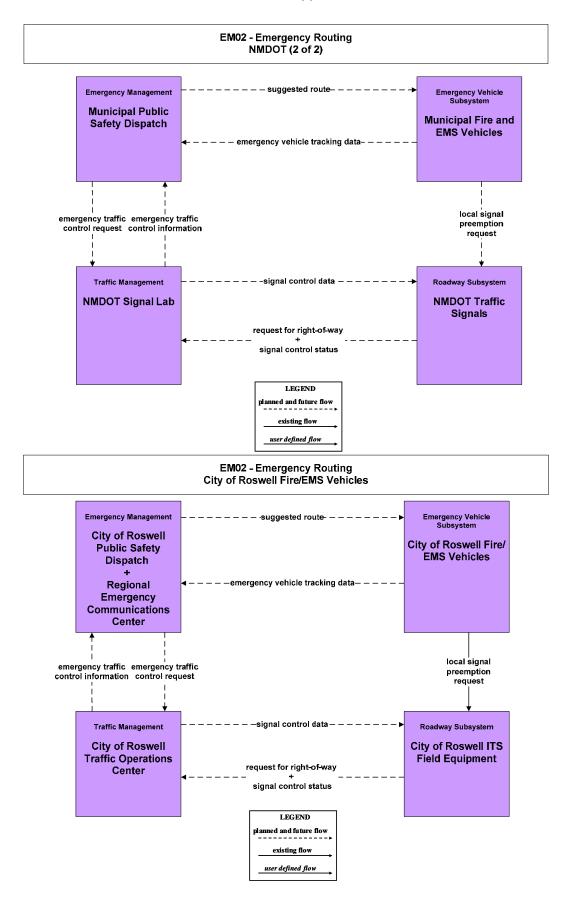






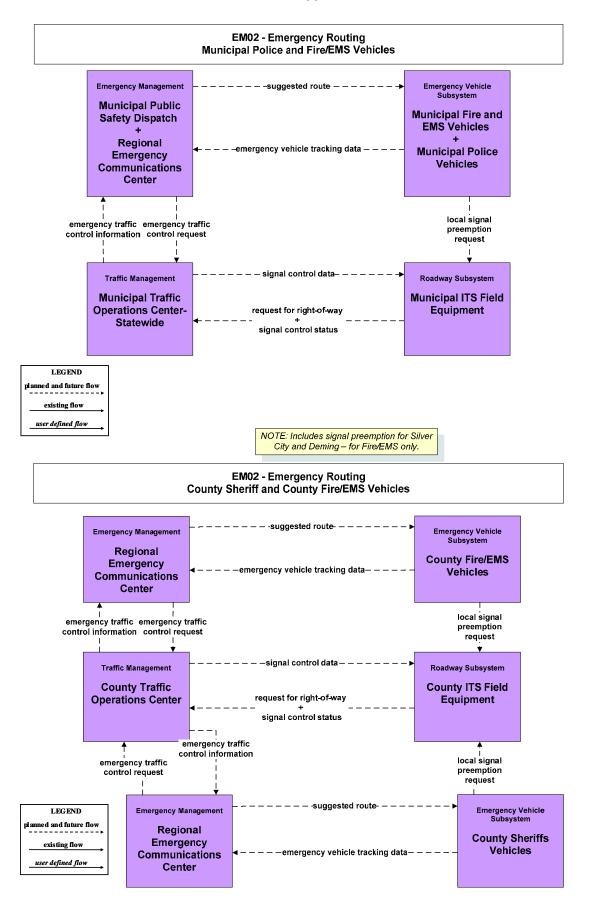






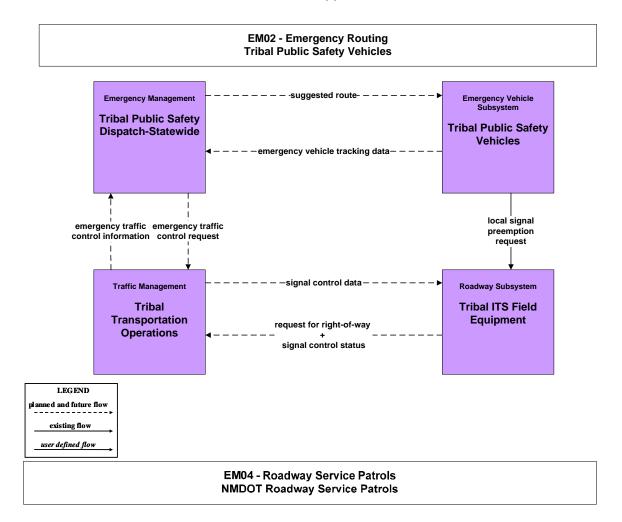


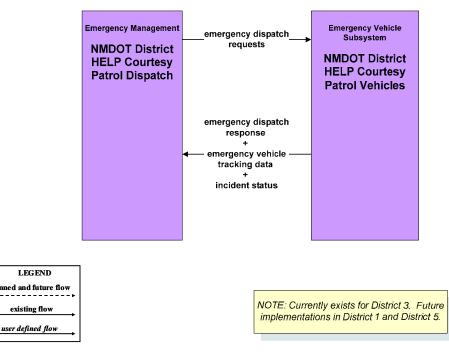








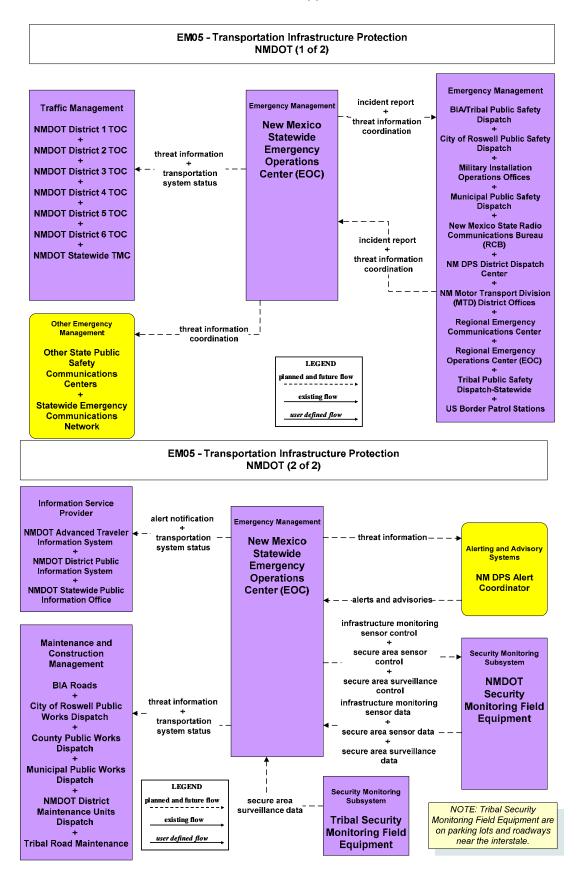






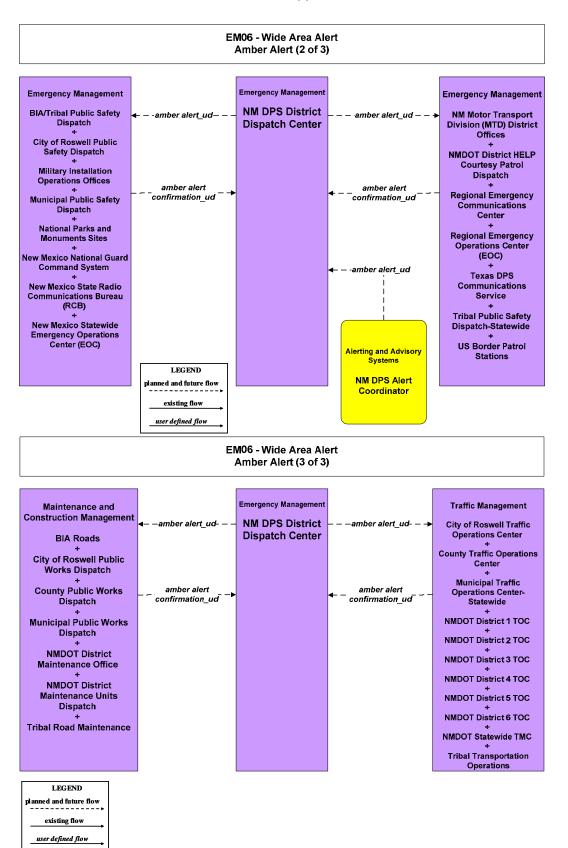
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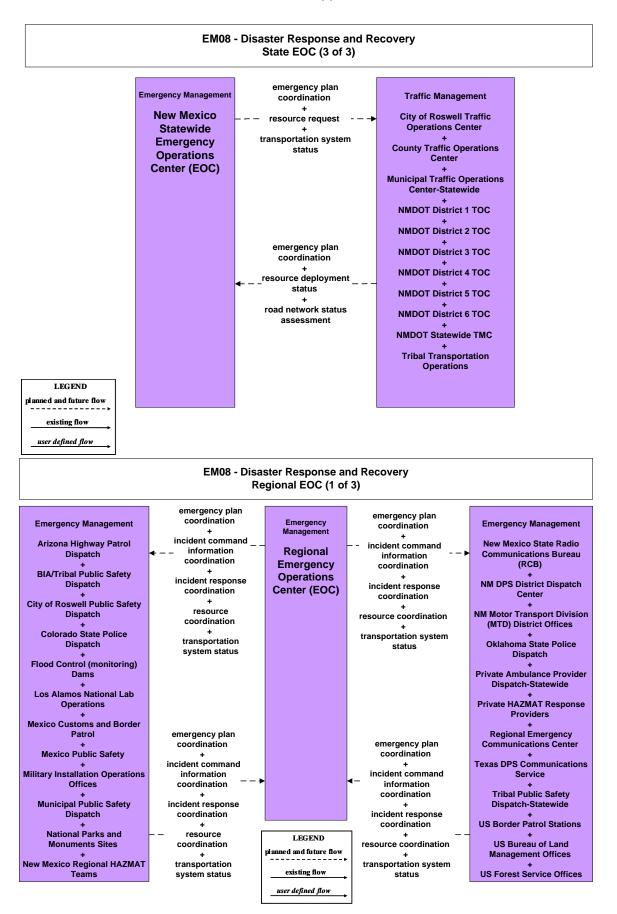




		ster Response a State EOC (1 of 3	-	
Emergency Management	emergency plan coordination	Emergency Management	emergency plan coordination	Emergency Management
Arizona Highway Patrol Dispatch	+ incident command − − ◀ ─ ⁻	New Mexico	+ − - incident command information ►	New Mexico State Radio Communications 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 +		 information coordination 	+ 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

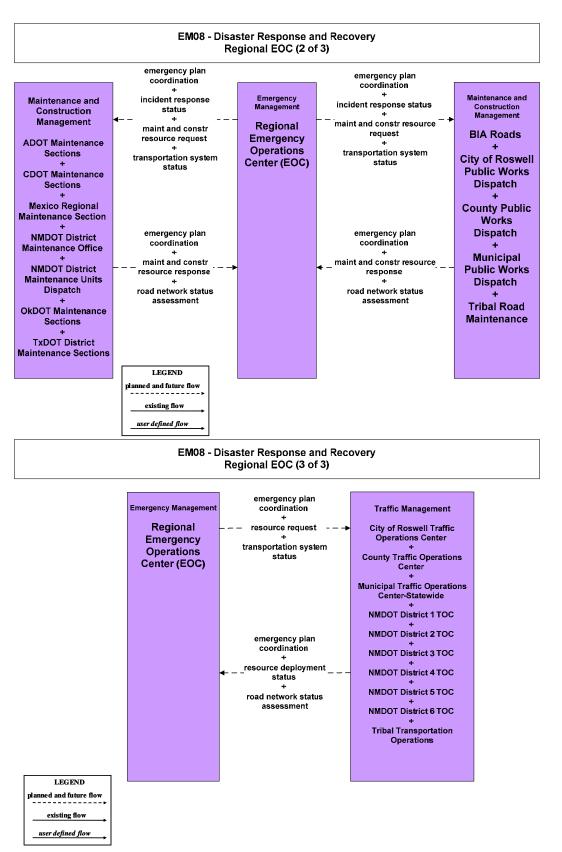






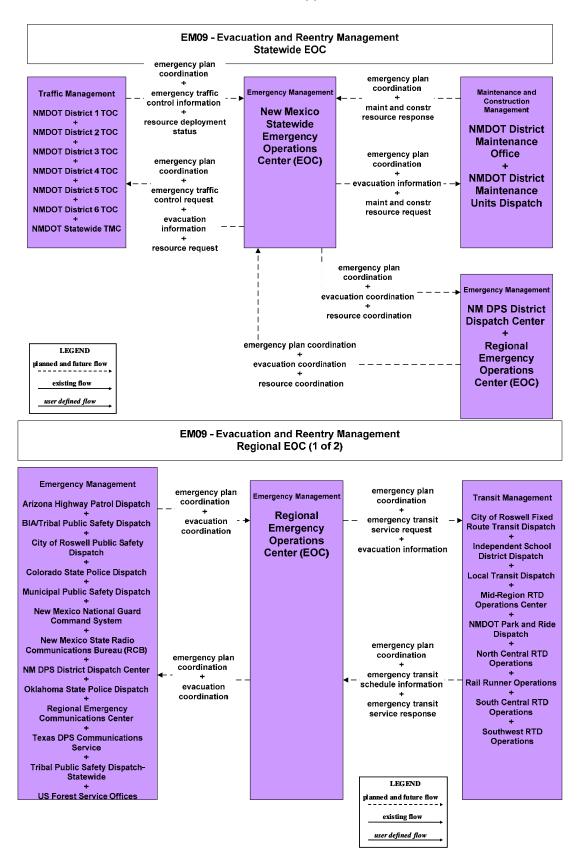






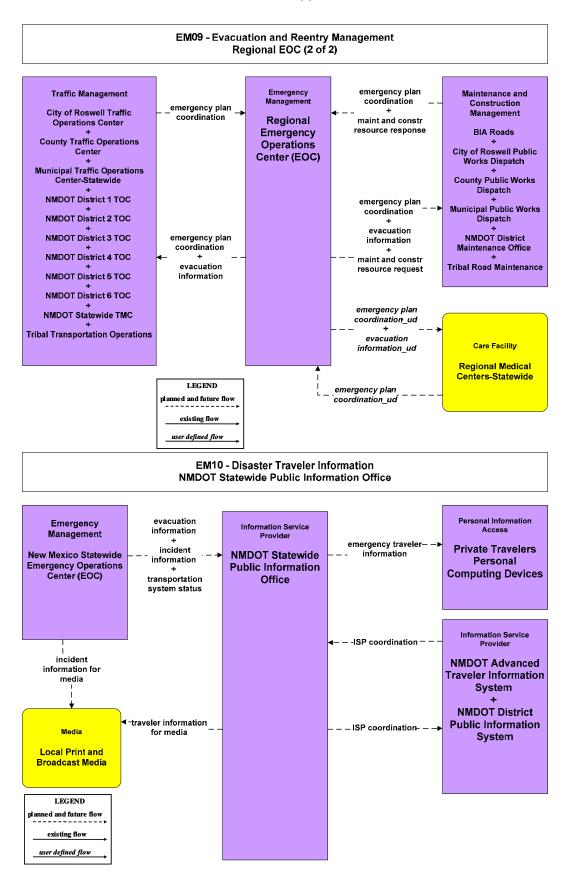






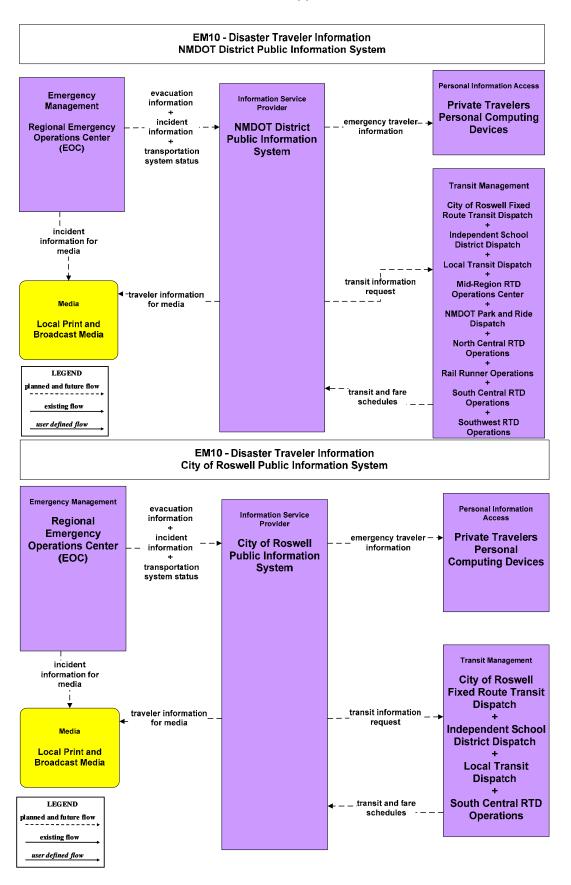






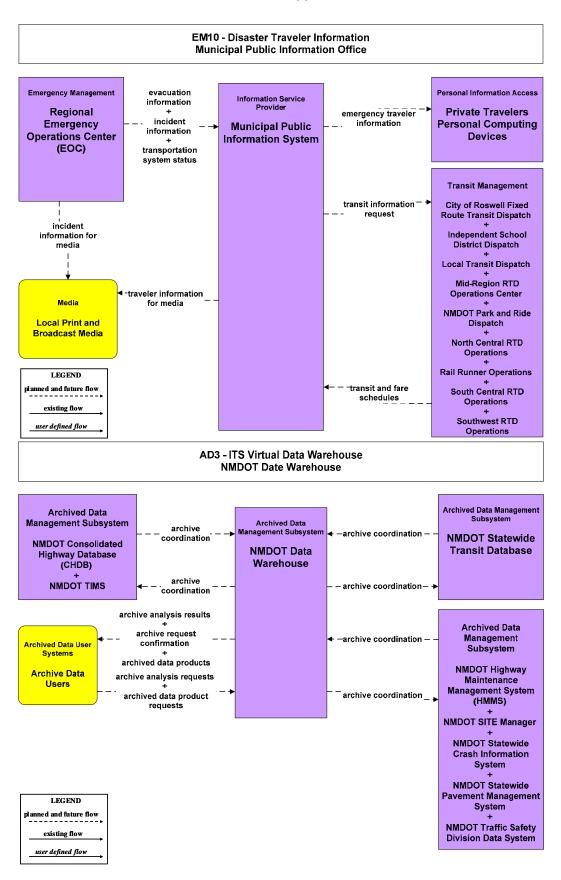










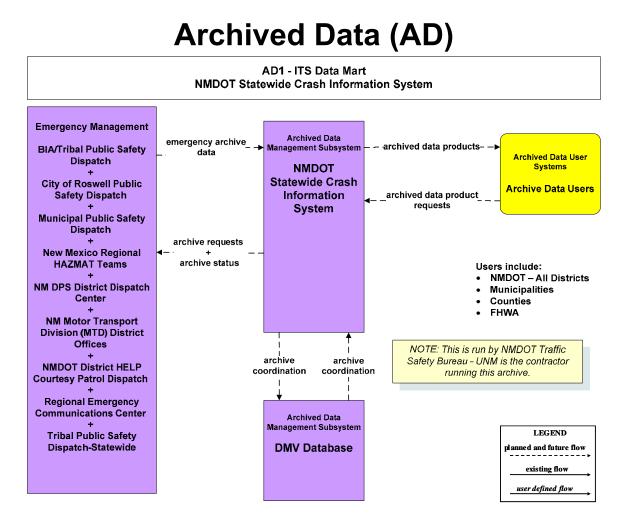






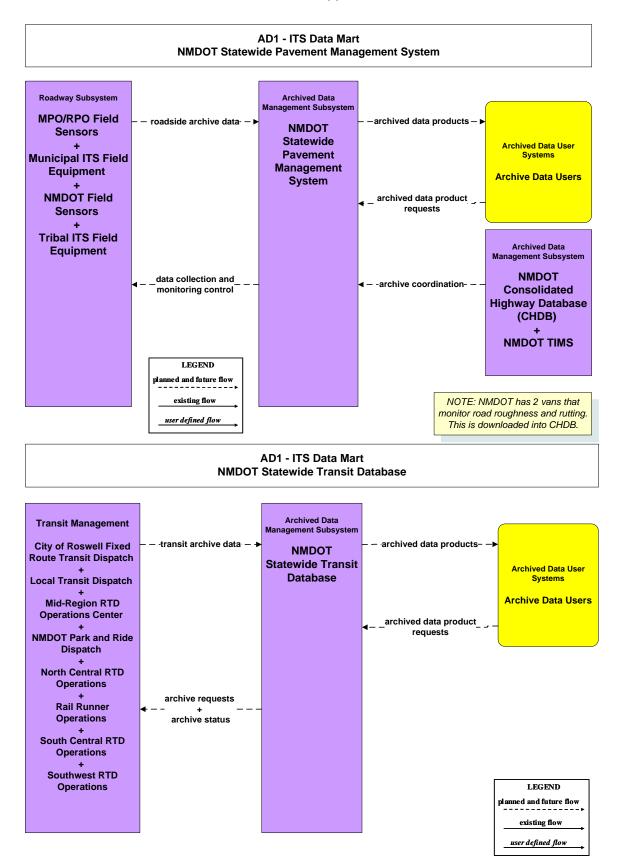
New Mexico Statewide ITS Architecture

Customized Market Package Diagrams



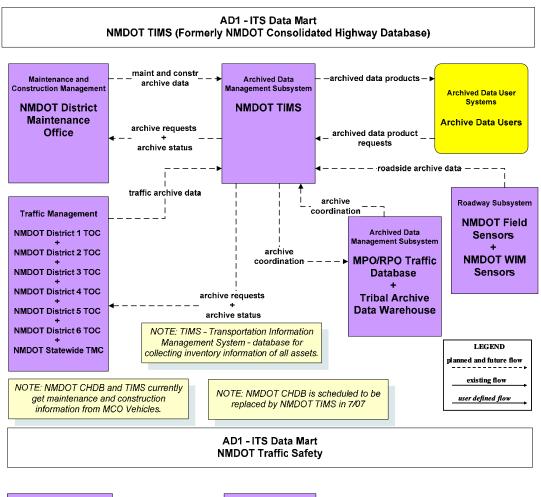


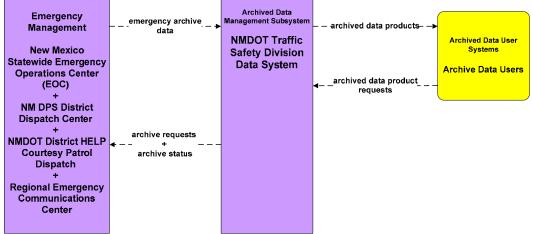








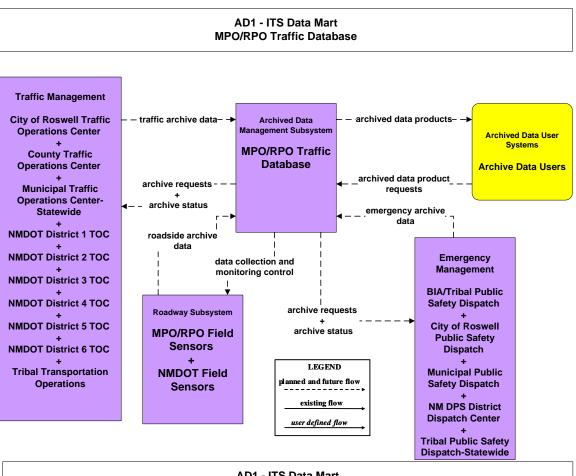




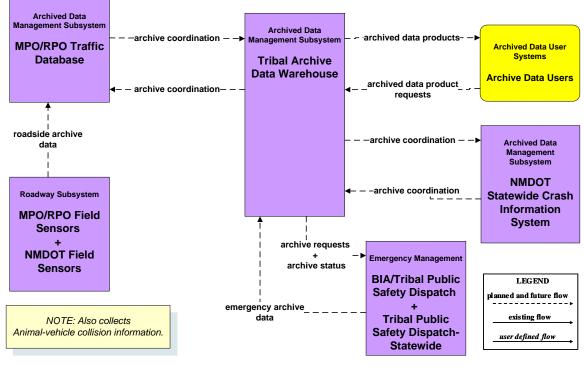






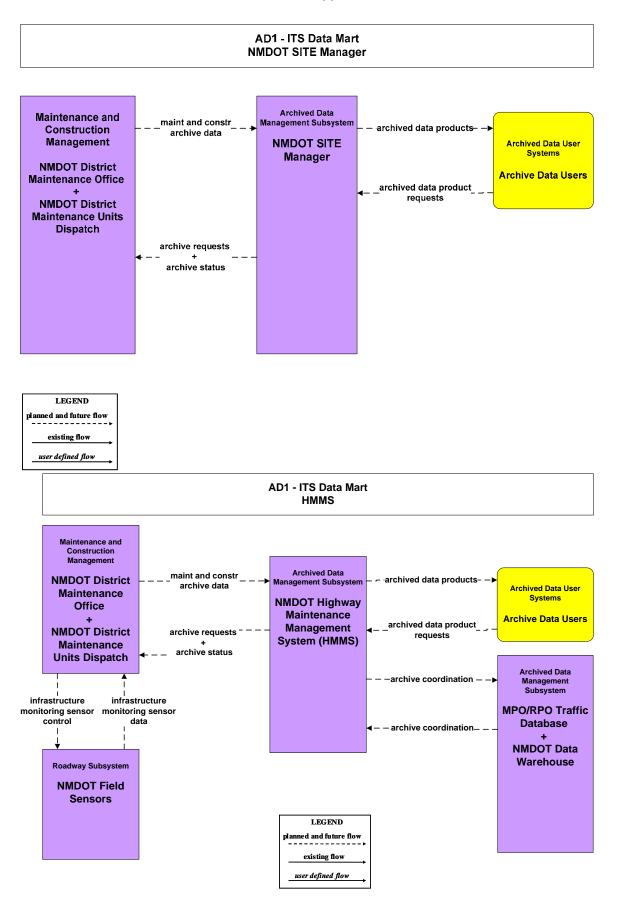


AD1 - ITS Data Mart Tribal



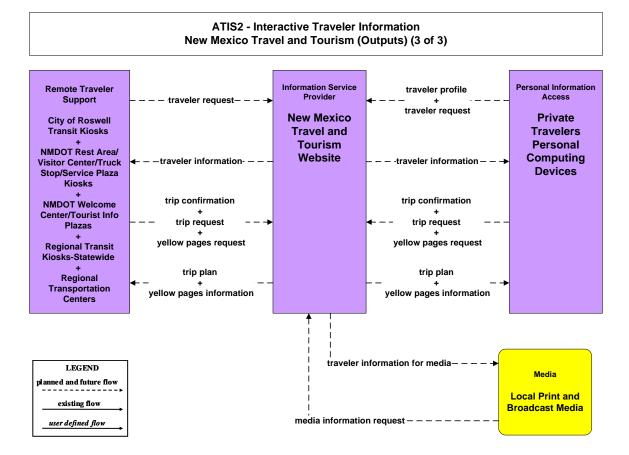












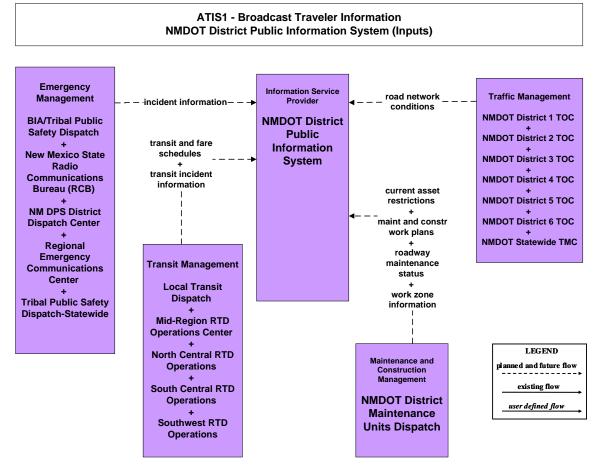




New Mexico Statewide ITS Architecture

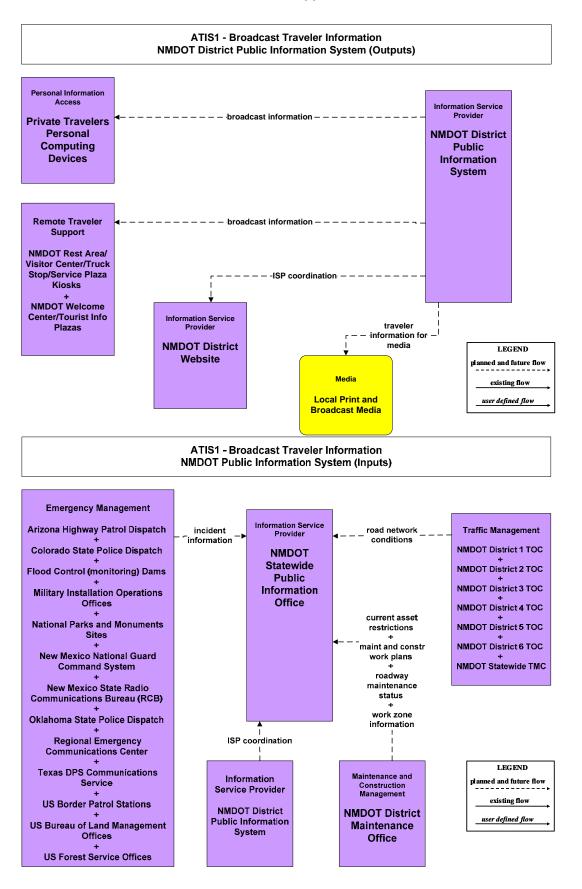
Customized Market Package Diagrams

Advanced Traveler Information Systems (ATIS)



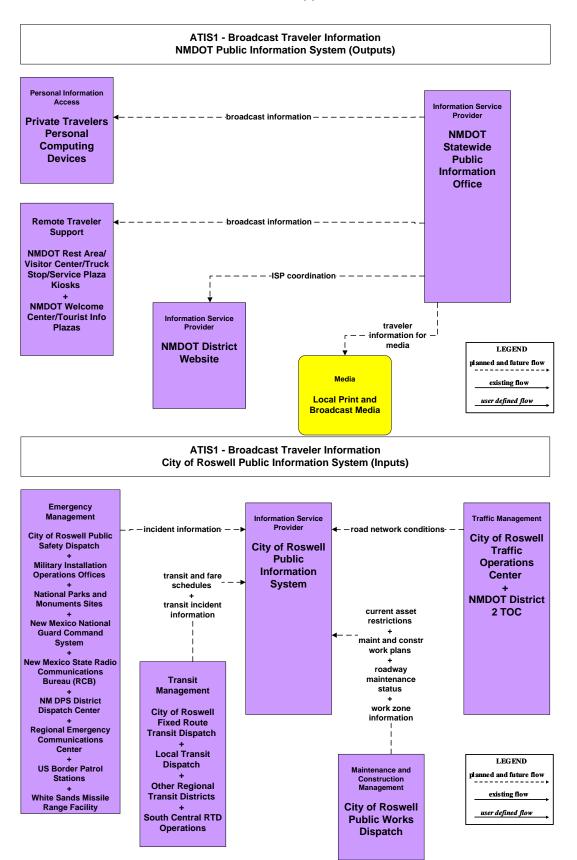






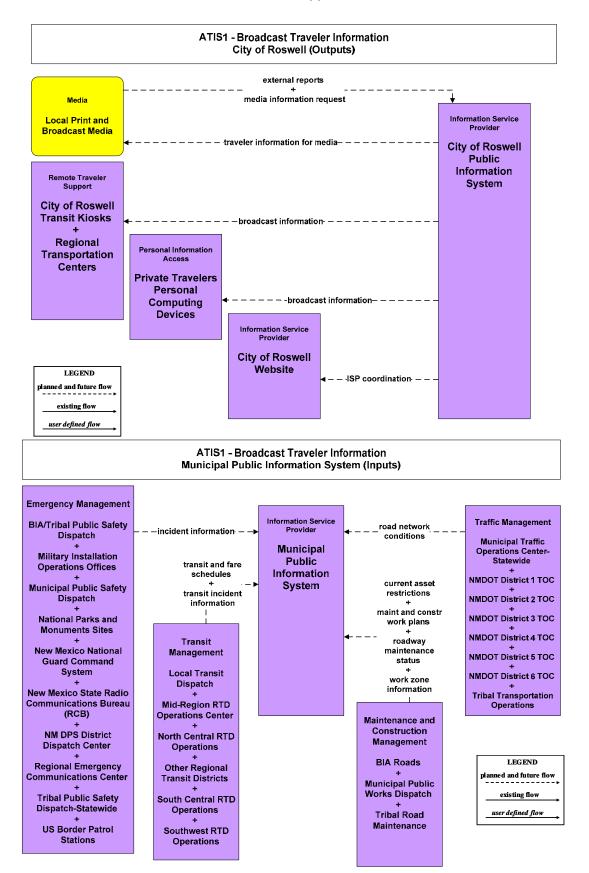






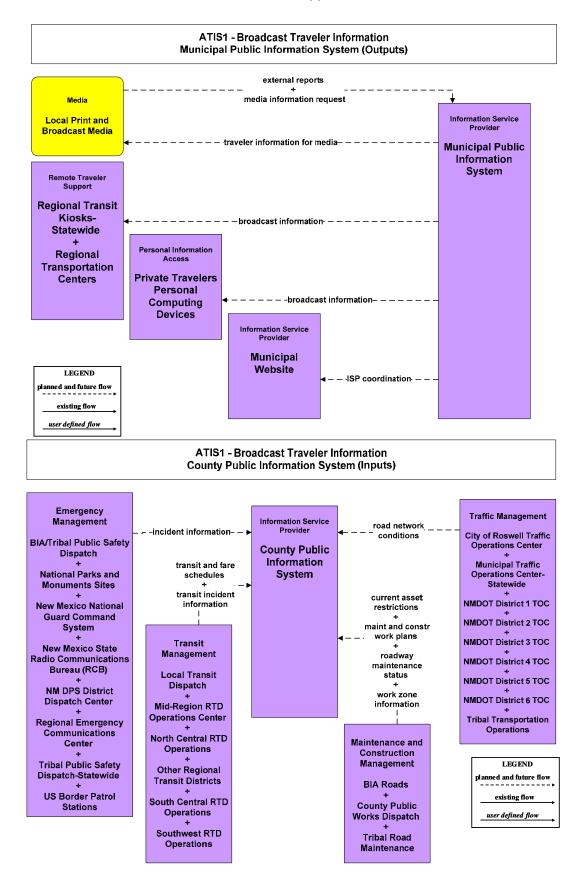




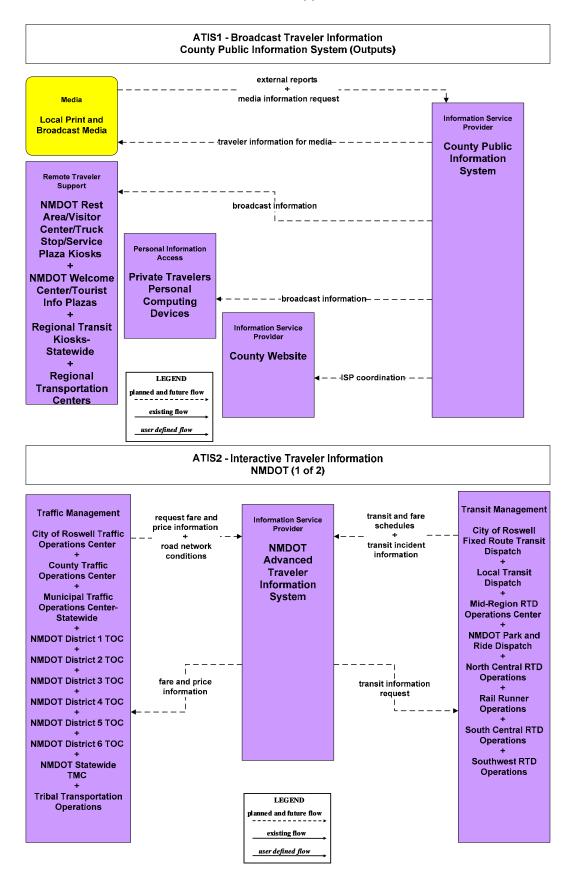






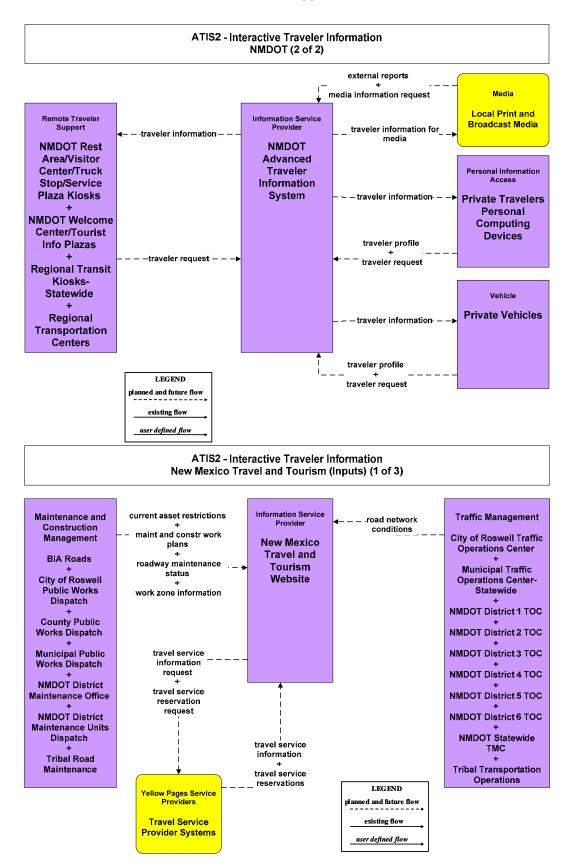






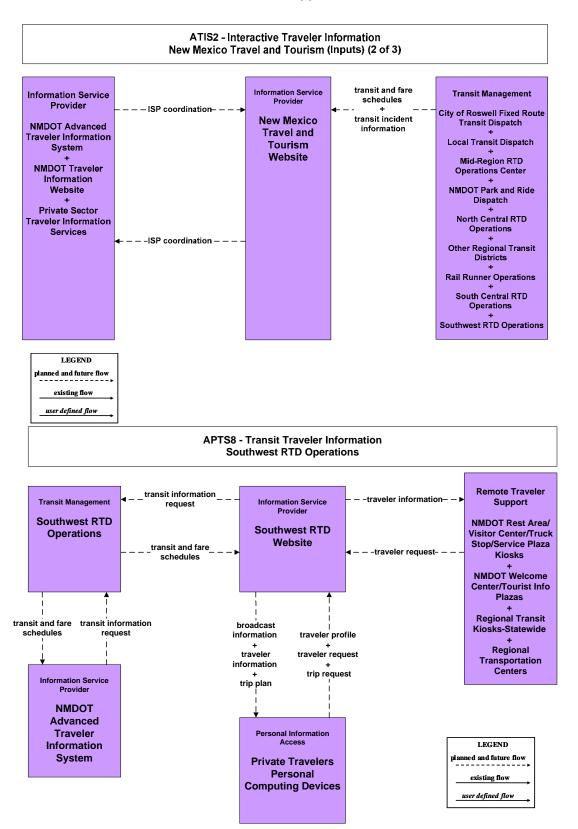












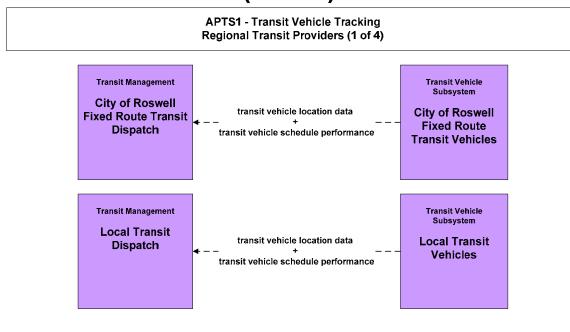




New Mexico Statewide ITS Architecture

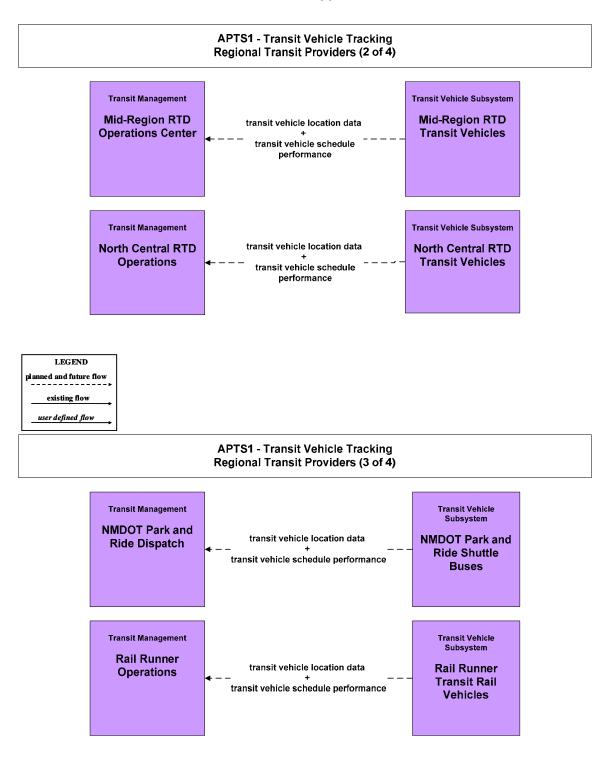
Customized Market Package Diagrams

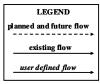
Advanced Public Transportation Systems (APTS)





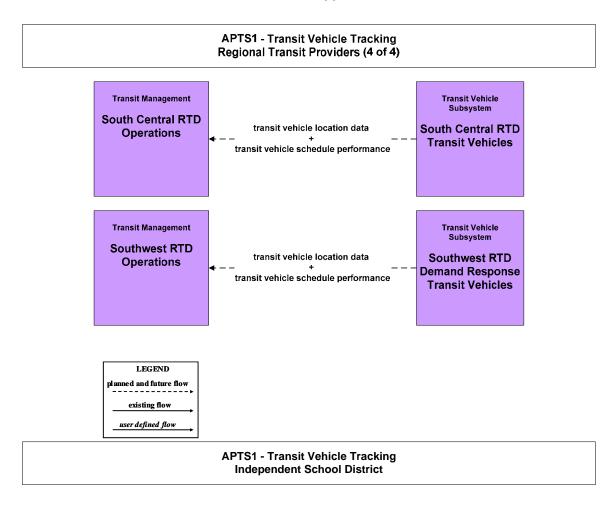


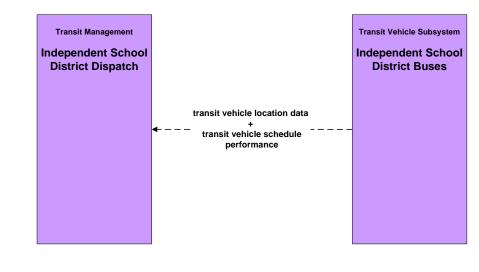








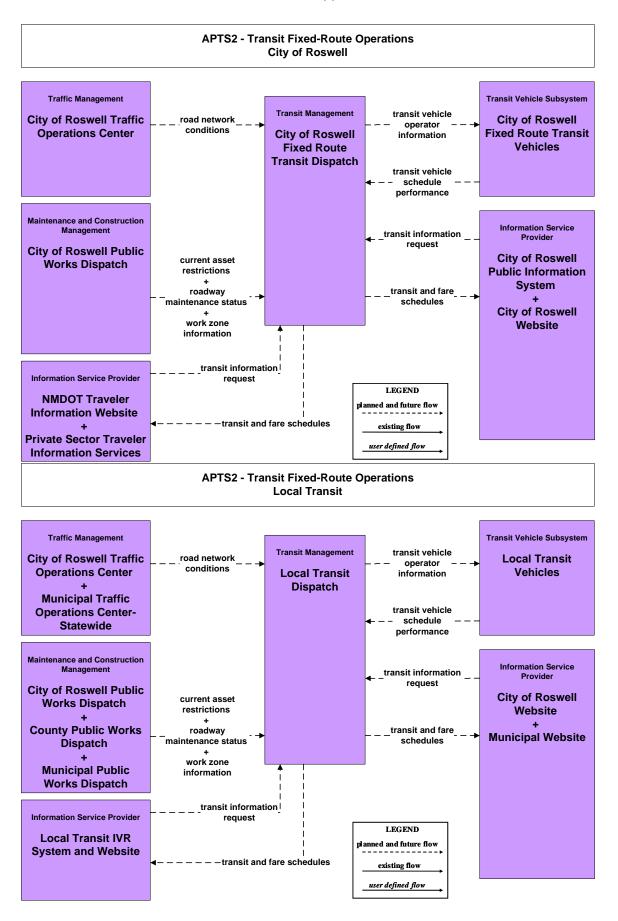




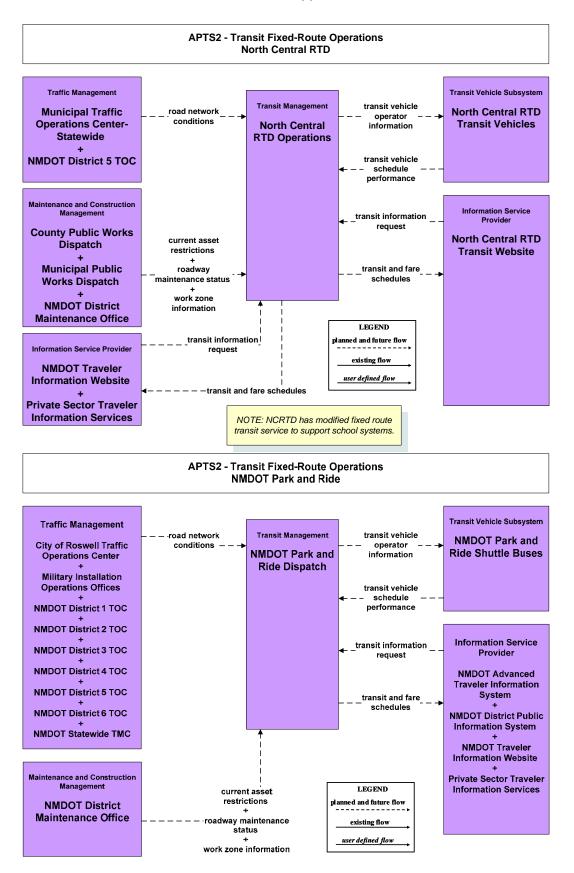
LEGEND		
planned and future flow		
existing flow		
user defined flow		





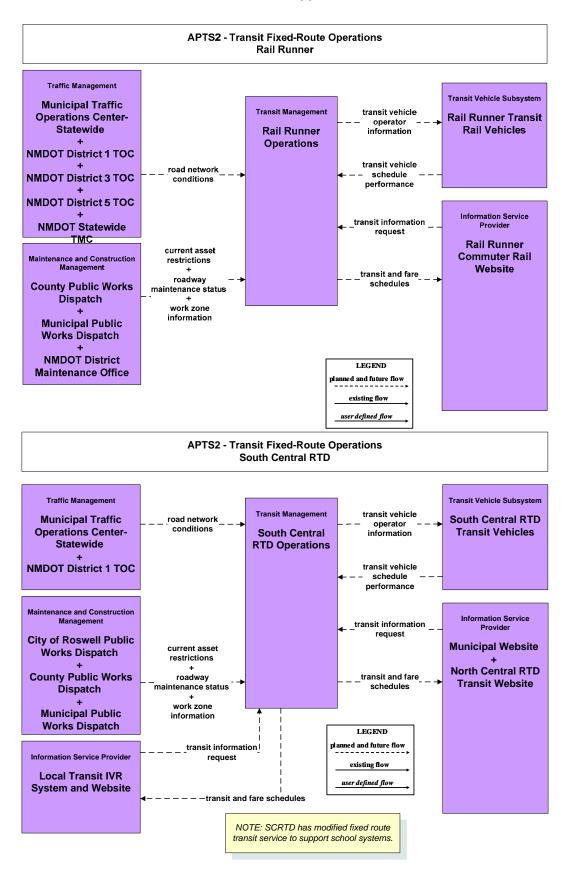






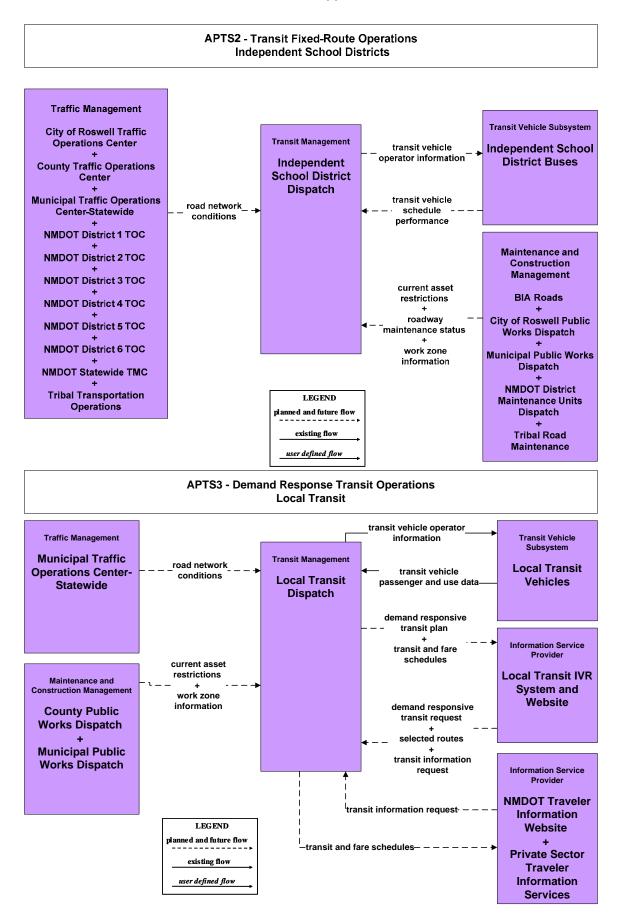






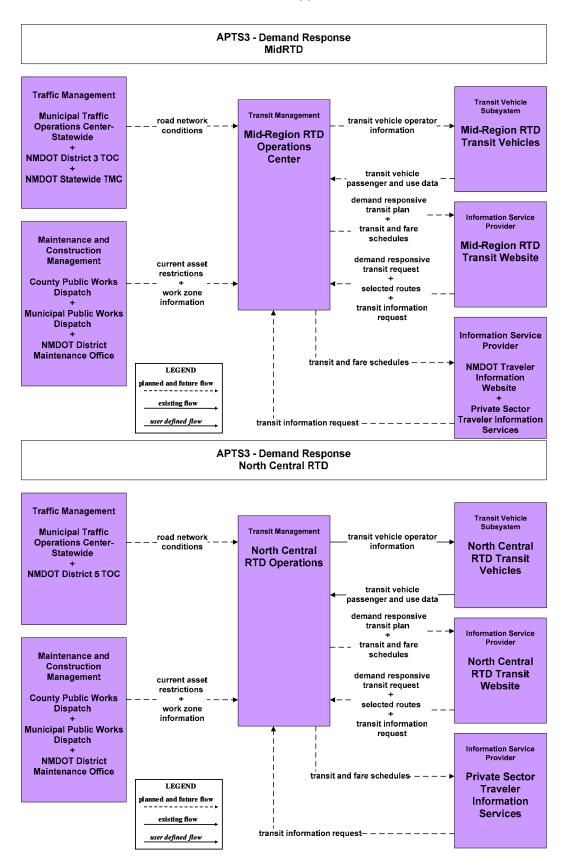






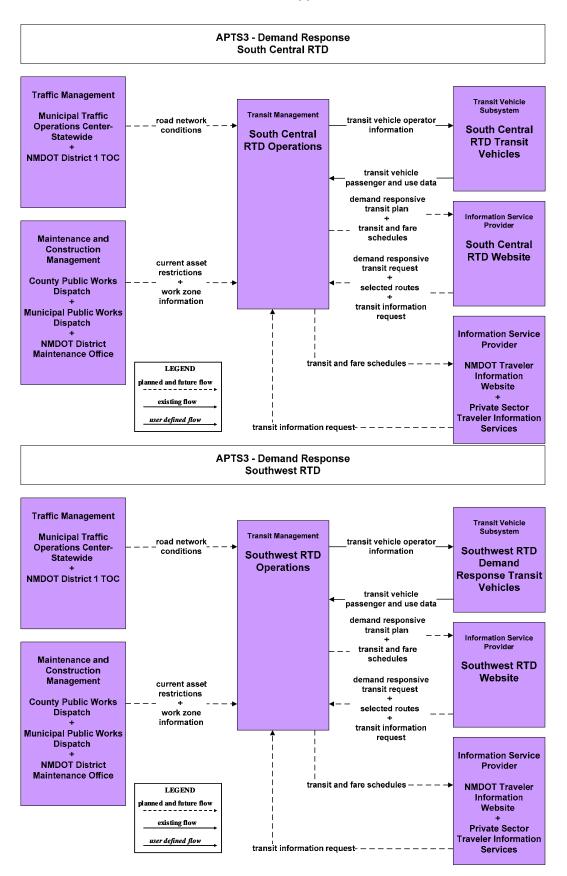


ConSysTec





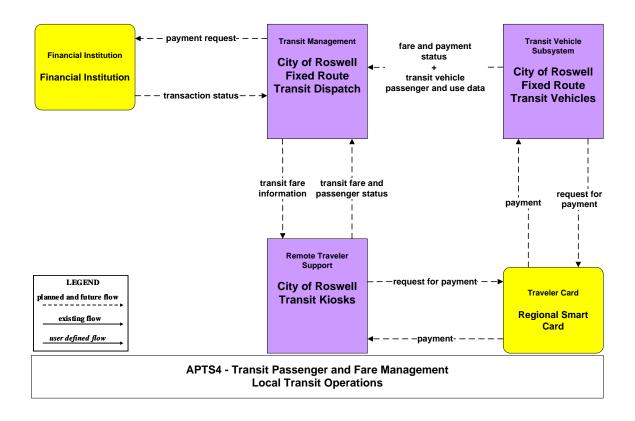


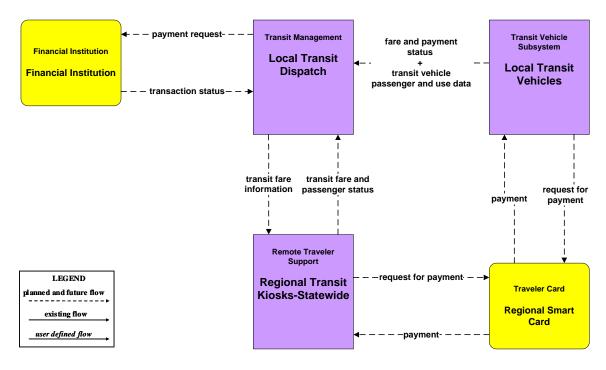






APTS4 - Transit Passenger and Fare Management City of Roswell

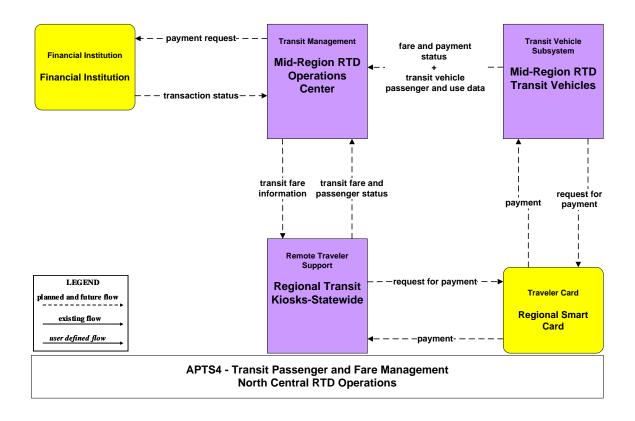


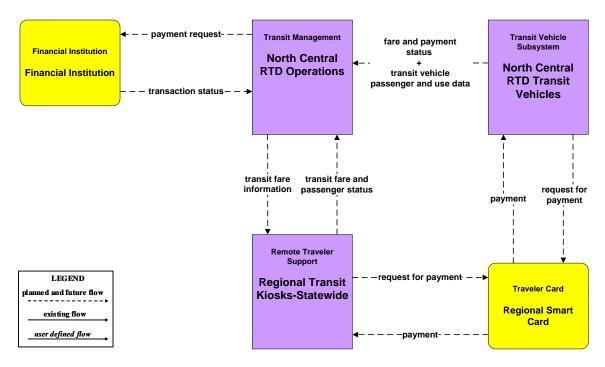






APTS4 - Transit Passenger and Fare Management MidRTD Transit Operations

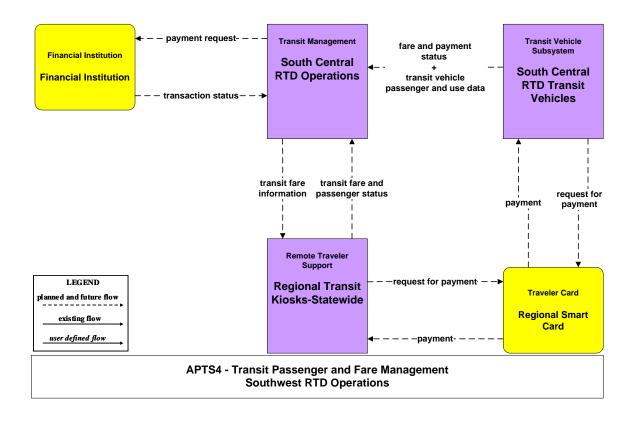


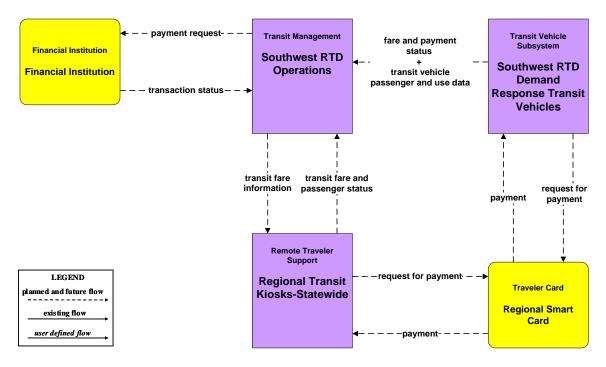






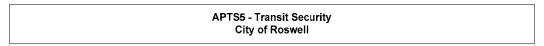
APTS4 - Transit Passenger and Fare Management South Central RTD Operations

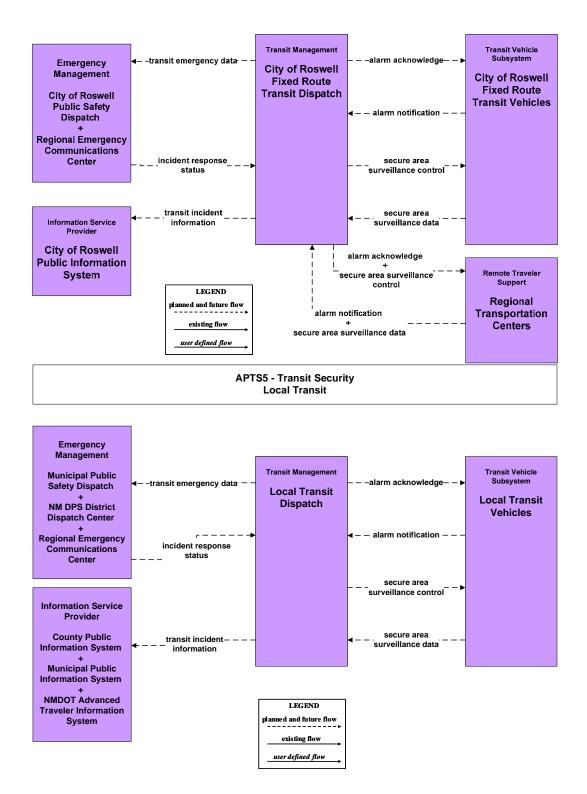








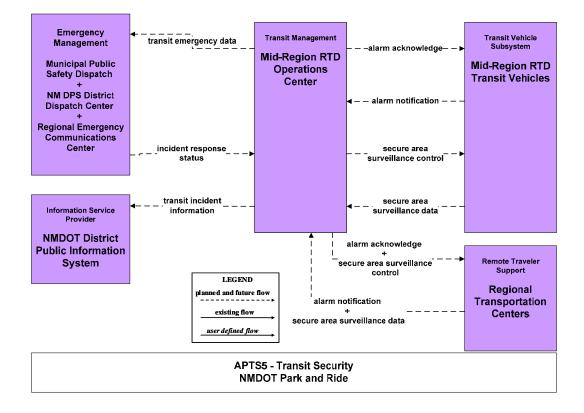


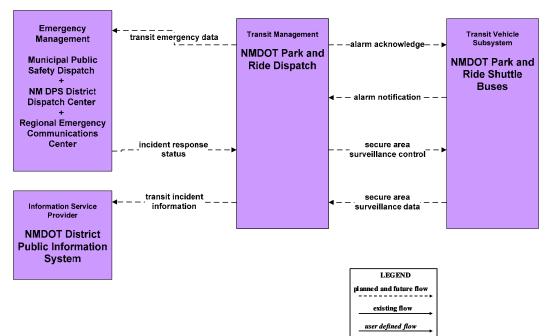






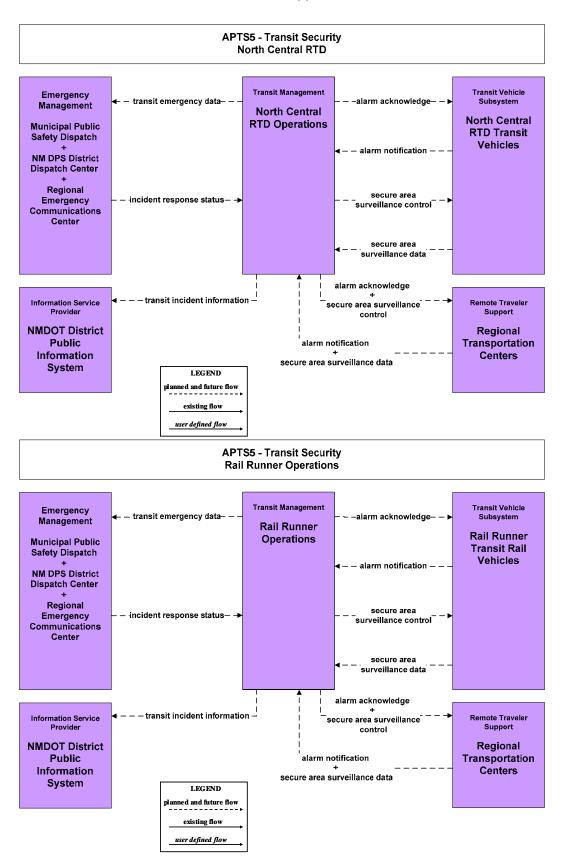
APTS5 - Transit Security MidRTD Operations





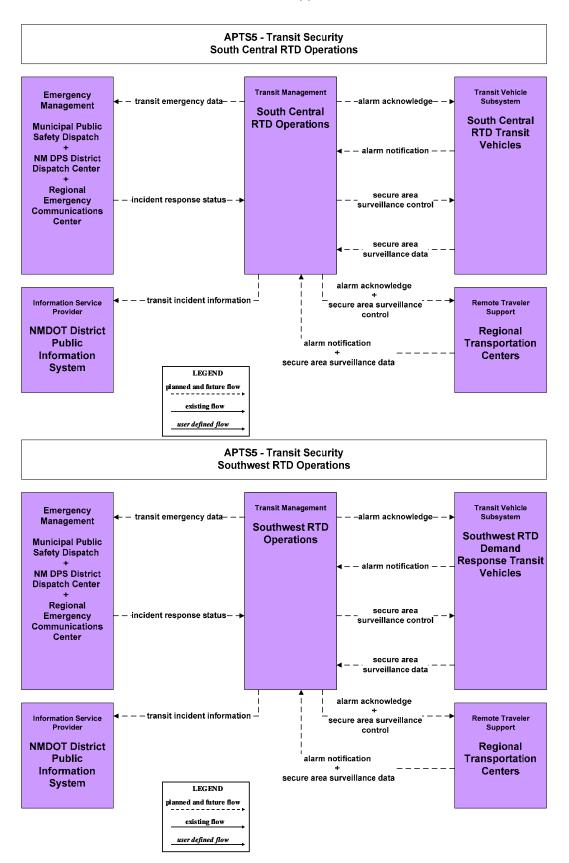








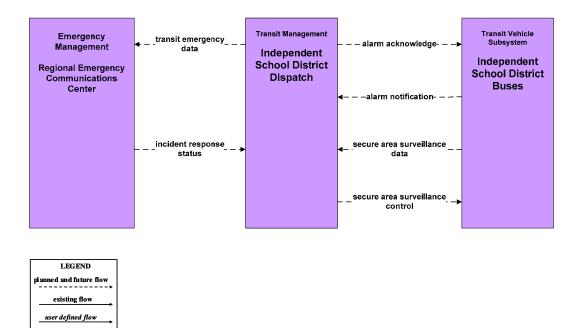












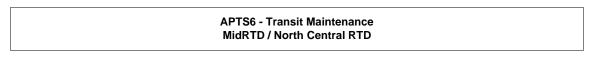
APTS6 - Transit Maintenance City of Roswell / Local

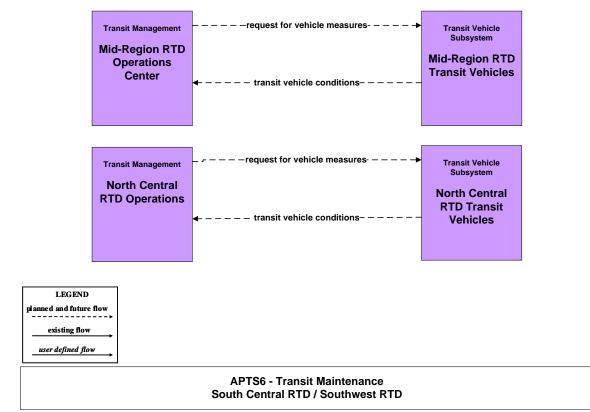
Transit Management City of Roswell Fixed Route Transit Dispatch	 → 	Transit Vehicle Subsystem City of Roswell Fixed Route Transit Vehicles
Transit Management	request for vehicle measures →	Transit Vehicle Subsystem
Dispatch		Local Transit Vehicles

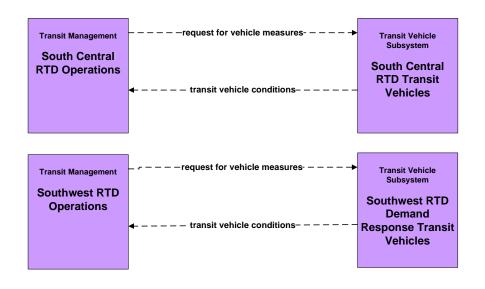
LEGEND planned and future flow existing flow

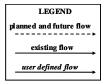
user defined flow





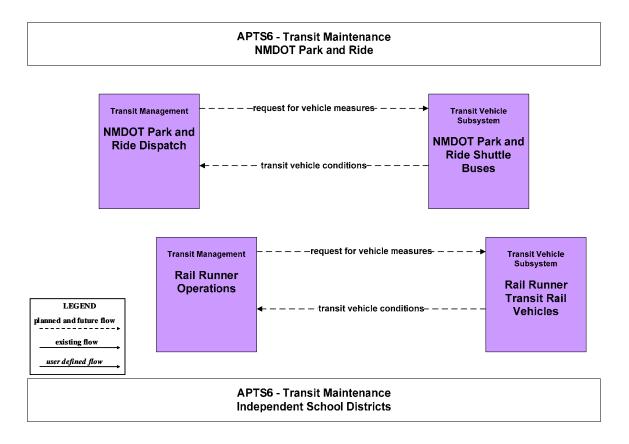


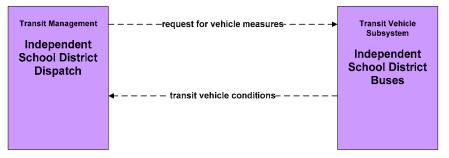








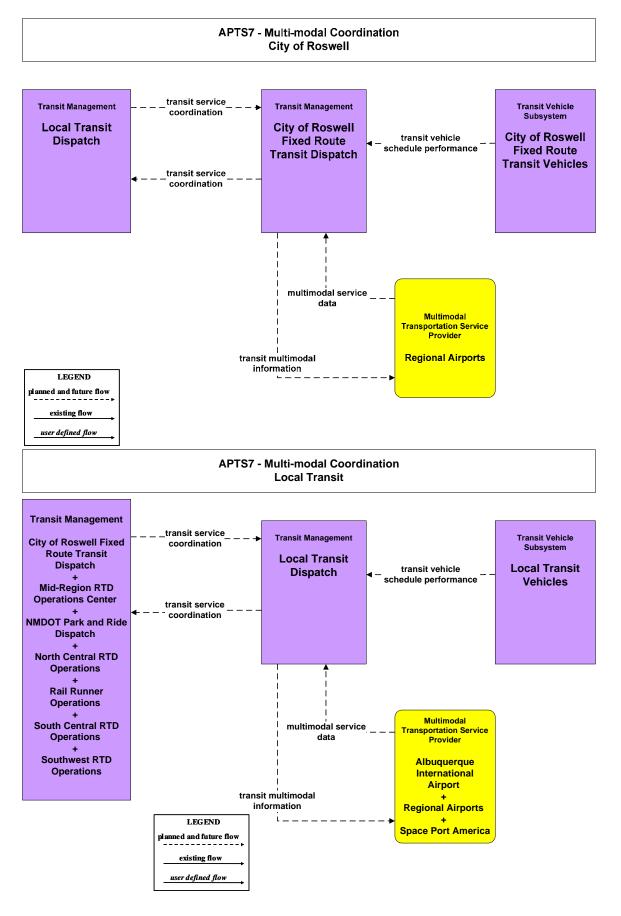




LEGEND
planned and future flow
existing flow
user defined flow

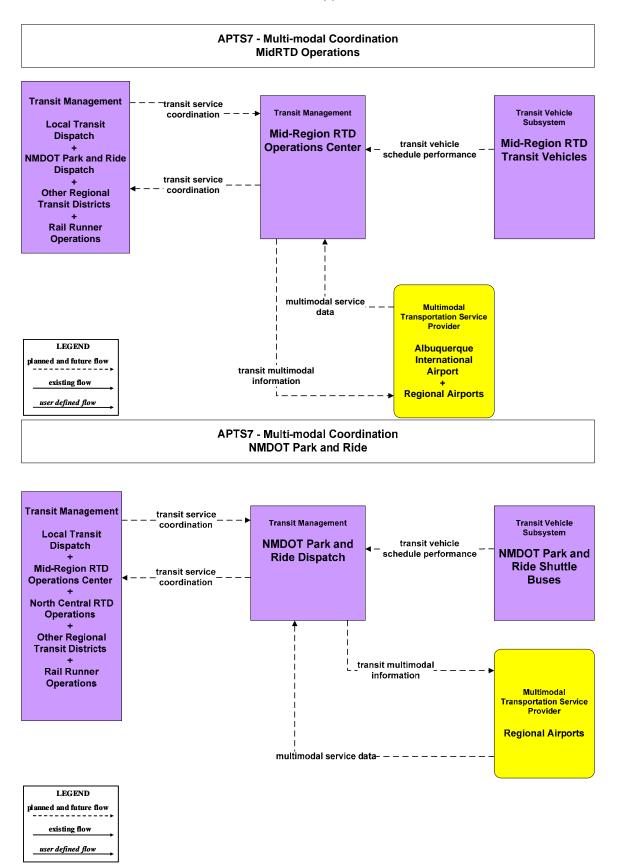






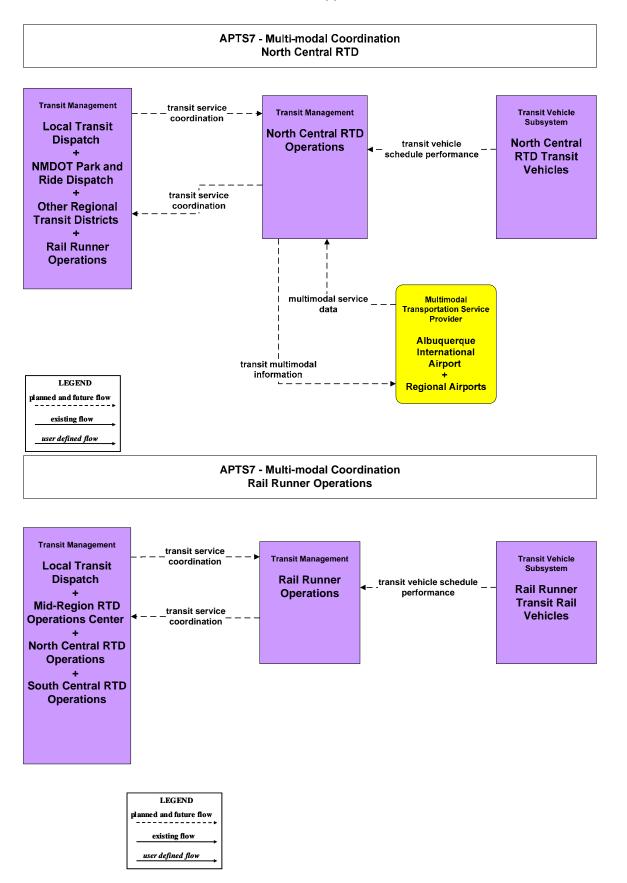






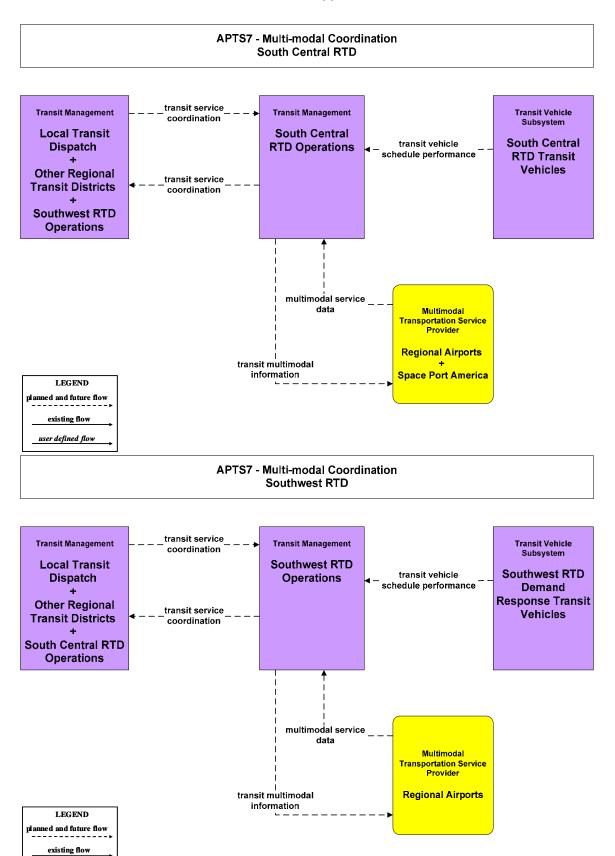








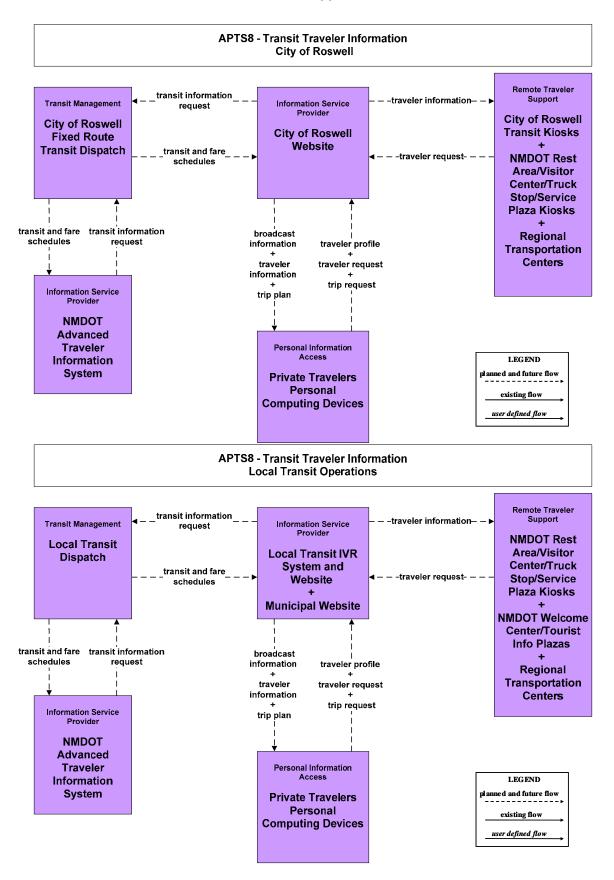






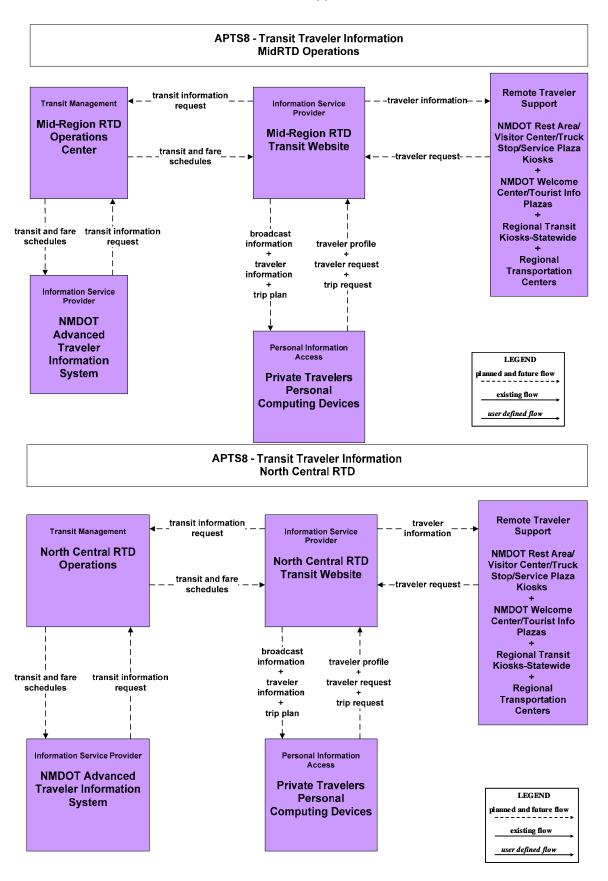
user defined flow





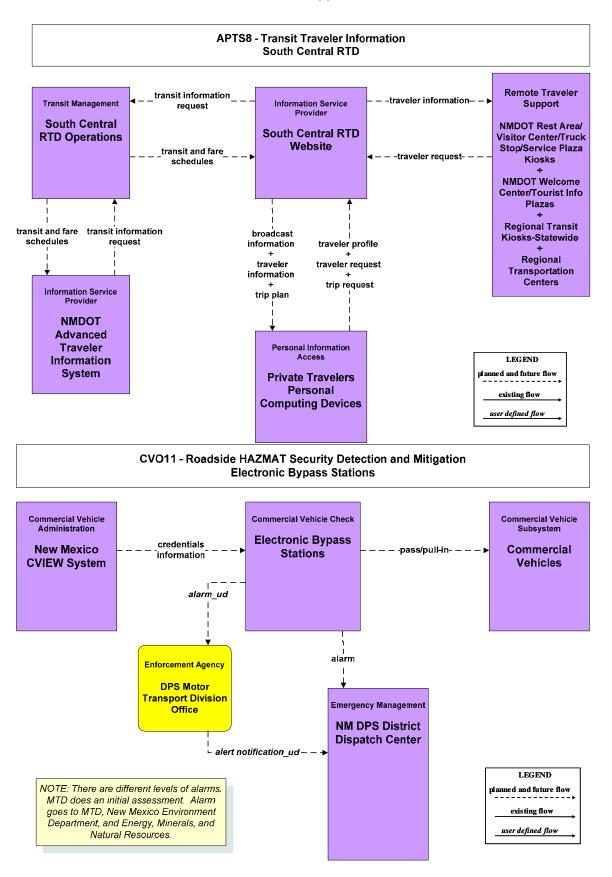












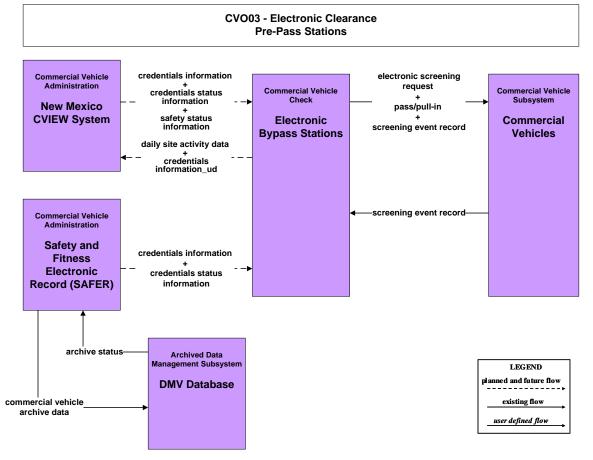




New Mexico Statewide ITS Architecture

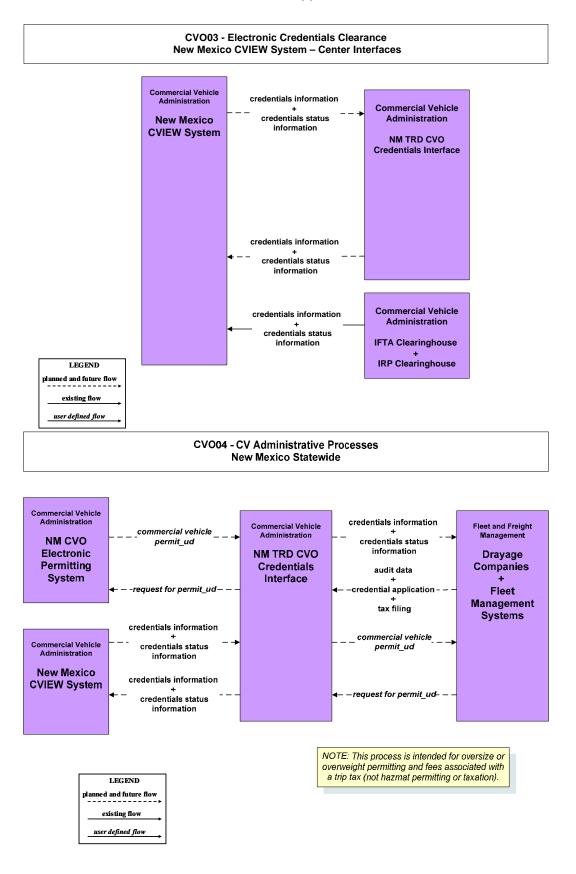
Customized Market Package Diagrams

Commercial Vehicle Operations (CVO)



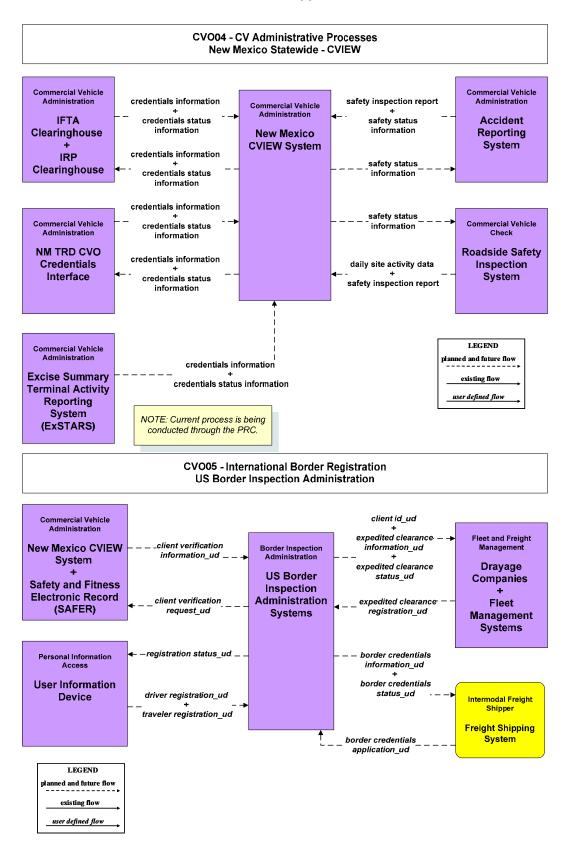






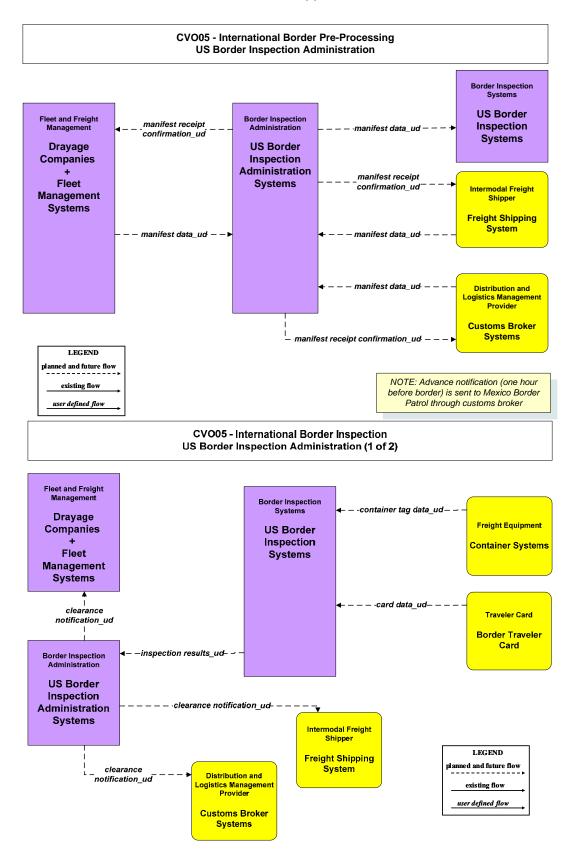
















CVO05 - International Border Inspection US Border Inspection Administration (2 of 2)

