Stakeholder	ITS Element	Status	Entity
Ashghal			
	Ashghal Backup TMC	Planned	Other Traffic Management
	Ashghal Backup TMC	Planned	Traffic Management
	Ashghal CCTV	Planned	Other Roadway
	Ashghal CCTV	Planned	Roadway
	Ashghal CV Inspection Stations	Planned	Commercial Vehicle Check
	Ashghal Detectors	Planned	Other Roadway
	Ashghal Detectors	Planned	Roadway
	Ashghal Environmental Sensors	Planned	Other Roadway
	Ashghal Environmental Sensors	Planned	Roadway
	Ashghal HAR	Planned	Roadway
	Ashghal Infrastructure Security System	Planned	Security Monitoring
	Ashghal Infrastructure Sensors	Planned	Other Roadway
	Ashghal Infrastructure Sensors	Planned	Roadway
	Ashghal Maintenance and Construction Vehicles	Existing	Maintenance and Construction Vehicle
	Ashghal Maintenance and Construction Vehicles	Existing	Other MCV
	Ashghal Maintenance Operations Depots	Existing	Maintenance and Construction Management
	Ashghal Other Maintenance and Construction Vehicles	Planned	Maintenance and Construction Vehicle
	Ashghal Other Maintenance and Construction Vehicles	Planned	Other MCV
	Ashghal Other Traffic Signals	Planned	Other Roadway
	Ashghal Other Traffic Signals	Planned	Roadway
	Ashghal Over-height Vehicle Detection	Planned	Roadway
	Ashghal Over-height Warning Sign	Planned	Roadway
	Ashghal Roadway Lighting Controller	Planned	Other Roadway
	Ashghal Roadway Lighting Controller	Planned	Roadway
	Ashghal Roadway V2x System	Planned	Other Roadway
	Ashghal Roadway V2x System	Planned	Roadway
	Ashghal Service Patrol Vehicles	Existing	Emergency Vehicle
	Ashghal Storage Facilities	Existing	Storage Facility
	Ashghal Tag Detectors	Planned	Other Roadway
	Ashghal Tag Detectors	Planned	Roadway

Inventory by Stakeholder

State of Qatar ITS Architecture

Stakeholde	r ITS Element	Status	Entity
	Ashghal Traffic Signals	Planned	Other Roadway
	Ashghal Traffic Signals	Planned	Roadway
	Ashghal V2x ISP	Planned	Information Service Provider
	Ashghal V2x ISP	Planned	Other ISP
	Ashghal Workzone Safety Detectors	Planned	Roadway
	Border Inspection Administration	Planned	Border Inspection Administration
	Border Inspection Systems	Planned	Border Inspection Systems
	Commercial Vehicle Administration	Planned	Commercial Vehicle Administration
	Commercial Vehicle Administration	Planned	Other CVAS
	CV Enforcement	Planned	Enforcement Agency
	DMS	Planned	Roadway
	Parking Payment Customer Service Center	Planned	Parking Management
	Parking Payment Customer Service Center	Planned	Payment Administration
	Qatar Transportation Information Portal	Planned	Information Service Provider
	Qatar Transportation Information Portal	Planned	Other ISP
	Roadway Short Range Traveler Information Communications	Planned	Other Roadway
	Roadway Short Range Traveler Information Communications	Planned	Roadway
	Traffic Management Center	Planned	Emergency Management
	Traffic Management Center	Planned	Information Service Provider
	Traffic Management Center	Planned	Traffic Management
Civil Aviatio	on Authority		
	Qatar Meteorology Department	Existing	Weather Service
Commercia	al Developers		
	Commercial Parking Facilities	Planned	Parking Management
Driver			
	Commercial Driver ID Card	Planned	Driver Identification Card
	Driver	Planned	Driver
Financial Ir	nstitutions		
	Financial Institutions	Existing	Financial Institution
ictQatar - S	Supreme Council for Information and Communicati	ons Technolo	ogy
	Hukoomi e-Government Information Portal	Existing	Enforcement Agency
	Hukoomi e-Government Information Portal	Existing	Information Service Provider
	Hukoomi e-Government Information Portal	Existing	Other ISP

Stakeholder	ITS Element	Status	Entity	
Internal Sec	urity Force			
l	ISF Lekhwiya Alerts and Advisories	Planned	Alerting and Advisory Systems	
l	ISF Lekhwiya Dispatch	Planned	Emergency Management	
l	ISF Lekhwiya Dispatch	Planned	Information Service Provider	
l	ISF Lekhwiya Police Vehicles	Planned	Emergency Vehicle	
Media				
I	Media	Planned	Media	
Milaha				
I	Milaha Freight Depot	Planned	Intermodal Freight Depot	
Ministry of E	ndowment			
I	Mosque Parking Management	Planned	Parking Management	
Ministry of E	nvironment			
I	MOE Air Quality Sensors	Planned	Roadway	
I	MOE Emissions Management Center	Planned	Emissions Management	
MMUP - Min	istry of Municipality and Urban Planning			
	Archive	Planned	Archived Data Management	
I	MMUP Parking Management System	Planned	Other Parking	
I	MMUP Parking Management System	Planned	Parking Management	
I	MMUP Traffic Data Collection Systems	Planned	Information Service Provider	
I	MMUP Traffic Data Collection Systems	Planned	Other ISP	
I	MMUP Traffic Data Collection Systems	Planned	Other Roadway	
ļ	MMUP Traffic Data Collection Systems	Planned	Roadway	
MOI AI Faza	a			
I	MOI AI Fazaa Police Patrol Dispatch	Planned	Emergency Management	
I	MOI AI Fazaa Police Patrol Dispatch	Planned	Other Emergency Management	
ļ	MOI AI Fazaa Police Vehicles	Planned	Emergency Vehicle	
MOI Civil De	efense			
ļ	MOI Civil Defense Dispatch	Planned	Emergency Management	
I	MOI Civil Defense Dispatch	Planned	Other Emergency Management	
ļ	MOI Fire Brigade Vehicles	Planned	Emergency Vehicle	
MOI Emerge	ency 999			
ļ	MOI Emergency 999 Call Center	Existing	Emergency Management	
ļ	MOI Emergency 999 Call Center	Existing	Other Emergency Management	
MOI NCC Emergency Operations				

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Stakeholder	TTS Element	Status	Entity			
	MOI NCC Emergency Operations Center	Existing	Emergency Management			
	MOI NCC Emergency Operations Center	Existing	Other Emergency Management			
MOI SCH H	MOI SCH HMC Dispatch					
	SCH HMC Ambulance Service Control Center	Existing	Emergency Management			
	SCH HMC Ambulance Service Control Center	Existing	Other Emergency Management			
MOI Traffic	Police					
	MOI Traffic Police Commercial Vehicle Administration	Planned	Commercial Vehicle Administration			
	MOI Traffic Police Dispatch	Existing	Emergency Management			
	MOI Traffic Police Dispatch	Existing	Enforcement Agency			
	MOI Traffic Police Dispatch	Existing	Other Emergency Management			
	MOI Traffic Police Signal Violation Detectors	Planned	Roadway			
	MOI Traffic Police Speed Detectors	Planned	Roadway			
	MOI Traffic Police Speed Enforcement Authority	Planned	Traffic Management			
	MOI Traffic Police Traffic Operations Personnel	Planned	Traffic Operations Personnel			
	MOI Traffic Police Vehicles	Planned	Emergency Vehicle			
	MOI Traffic Police Violation Customer Service Center	Planned	Traffic Management			
	MOI Vehicle Registration DB	Planned	DMV			
Mowasalat	Public Transportation					
	Bus Operator Control Center	Existing	Emergency Management			
	Bus Operator Control Center	Existing	Information Service Provider			
	Bus Operator Control Center	Existing	Other Emergency Management			
	Bus Operator Control Center	Existing	Other ISP			
	Bus Operator Control Center	Existing	Other Public Transportation Management			
	Bus Operator Control Center	Existing	Public Transportation Management			
	Doha Water Bus	Planned	Public Transportation Vehicle			
	Doha Water Bus	Planned	Vehicle			
	Doha Water Bus /Taxi Operations Control Center	Planned	Emergency Management			
	Doha Water Bus /Taxi Operations Control Center	Planned	Information Service Provider			
	Doha Water Bus /Taxi Operations Control Center	Planned	Public Transportation Management			
	Doha Water Bus/Taxi Customer Information Displays	Planned	Remote Traveler Support			
	Doha Water Taxi	Planned	Other Vehicle			
	Doha Water Taxi	Planned	Public Transportation Vehicle			

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Stakeholde	r ITS Element	Status	Entity
	Doha Water Taxi	Planned	Vehicle
	Doha Water Taxi/Bus Security Equipment	Planned	Remote Traveler Support
	Mowasalat Buses	Existing	Public Transportation Vehicle
	Mowasalat Buses	Existing	Vehicle
	Mowasalat Customer Information Displays	Planned	Remote Traveler Support
	Mowasalat Demand Response Vehicles	Planned	Public Transportation Vehicle
	Mowasalat Feeder Vehicles	Planned	Public Transportation Vehicle
	Mowasalat Parking Management System	Planned	Other Parking
	Mowasalat Parking Management System	Planned	Parking Management
	Mowasalat Parking Management System	Planned	Roadway Payment
	Mowasalat Public Transportation Maintenance Facility	Planned	Maintenance and Construction Management
	Mowasalat Security Equipment	Existing	Remote Traveler Support
	Mowasalat Security Equipment	Existing	Security Monitoring
	Mowasalat Taxi Customer Information Display	Planned	Remote Traveler Support
	Mowasalat Taxi Dispatch	Existing	Other Public Transportation Management
	Mowasalat Taxi Dispatch	Existing	Public Transportation Management
	Mowasalat Taxis	Existing	Other Vehicle
	Mowasalat Taxis	Existing	Public Transportation Vehicle
	Mowasalat Taxis	Existing	Vehicle
	Operator Paratransit Dispatch	Planned	Other Public Transportation Management
	Operator Paratransit Dispatch	Planned	Public Transportation Management
	Qatar Automated Fare Collection Center	Planned	Other Public Transportation Management
	Qatar Automated Fare Collection Center	Planned	Public Transportation Management
	Qatar SmartCard	Planned	Traveler Card
	Qatar SmartCard Vending Machines	Planned	Remote Traveler Support
NDIA - Nev	NDIA - New Doha International Airport		
	NDIA Freight Depot	Planned	Intermodal Freight Depot
	NDIA Parking Management System	Planned	Other Parking
	NDIA Parking Management System	Planned	Parking Management
	NDIA Parking Management System	Planned	Roadway Payment
	NDIA Terminal Operations Center	Planned	Information Service Provider

Stakeholde	r ITS Element	Status	Entity
	NDIA Terminal Operations Center	Planned	Multimodal Transportation Service Provider
	NDIA Terminal Operations Center	Planned	Payment Administration
	NDIA Terminal Toll Field Equipment	Planned	Roadway Payment
Other State	e Transportation Agencies		
	Other State TMC	Planned	Traffic Management
	Qatar Government Transport Authority Finance Bureau	Planned	Financial Institution
Private Cor	nmercial and Fleet Operators		
	Commercial Buses	Planned	Public Transportation Vehicle
	Commercial Buses	Planned	Vehicle
	Commercial Vehicle	Planned	Basic Commercial Vehicle
	Commercial Vehicle Driver	Planned	Commercial Vehicle Driver
	Freight Equipment	Planned	Freight Equipment
	Private Commercial and Fleet Vehicles	Planned	Commercial Vehicle
	Private Fleet and Freight Dispatch	Planned	Fleet and Freight Management
Private Cor	npanies		
	Private Auto Emergency Call Center	Planned	Emergency Management
	Private Bus or Limo or VIP Fleet Operations Center	Planned	Public Transportation Management
	Private Car Rental Service Providers	Planned	Public Transportation Management
	Private Commercial Truck Parking	Planned	Other Parking
	Private Commercial Truck Parking	Planned	Parking Management
	Private Telecom Companies	Planned	Financial Institution
	Private Traveler Information Services	Existing	Information Service Provider
	Regional TMC	Planned	Other Traffic Management
	Regional TMC	Planned	Traffic Management
	Third Party Logistics Providers	Planned	Intermodal Freight Shipper
Private Tra	velers		
	Private Travelers Personal Computing Devices	Existing	Personal Information Access
Private Ver	nicles Owners		
	Private Vehicles	Existing	Vehicle
	Vehicle Characteristics	Planned	Vehicle Characteristics
	Vehicle Short Range Traveler Information Reception	Planned	Vehicle
Private We	ather Services		

Private Weather ServicesExistingWeather ServiceDatar AirwaysCargo Operations CenterPlannedInformation Service ProviderDatar Airways Cargo Operations CenterPlannedMultimodal Transportation ServiceDatar Airways Flight Operations CenterPlannedMultimodal Transportation ServiceDatar Airways Flight Operations CenterPlannedMultimodal Transportation ServiceDatar Airways Flight Operations CenterPlannedMultimodal Transportation ServiceDatar Bahrain Causeway FoundationPlannedOther Traffic ManagementDatar Bahrain Causeway TMCPlannedOther ParkingDatar Education City Parking ManagementPlannedOther ParkingDatar Education City Parking ManagementPlannedOther ParkingDatar Transportation Data Archive UsersVarking ManagementPlannedDatar University Parking ManagementPlannedOther ParkingDatar University Parking ManagementPlannedOther ParkingDatar University Parking ManagementPlannedOther Taveler SupportDatar University Parking ManagementPlannedRemote Traveler SupportQatar Smartcard Conductor ValidatorPlannedRemote Traveler SupportQatar Smartcard Conductor ValidatorPlannedRemote Traveler SupportQR Lusail LRT Maintenance FacilityPlannedMaintenance and ConstructionQR Lusail LRT Maintenance FacilityPlannedMaintenance and ConstructionQR Lusail LRT Operations CenterPlannedInformation Service ProviderQR Lusai	Stakeholde	er ITS Element	Status	Entity
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QR Lusail LRT Security EquipmentPlannedRemote Traveler SupportQR Lusail LRT VehiclesPlannedPublic Transportation VehicleQR Lusail LRT VehiclesPlannedVehicle		QR Lusail LRT Operations Center	Planned	Rail Operations
QR Lusail LRT VehiclesPlannedPublic Transportation VehicleQR Lusail LRT VehiclesPlannedVehicle		QR Lusail LRT Operations Center	Planned	Weather Service
QR Lusail LRT Vehicles Planned Vehicle		QR Lusail LRT Security Equipment	Planned	Remote Traveler Support
		QR Lusail LRT Vehicles	Planned	Public Transportation Vehicle
QR Lusail LRT Wayside Equipment Planned Wayside Equipment		QR Lusail LRT Vehicles	Planned	Vehicle
		QR Lusail LRT Wayside Equipment	Planned	Wayside Equipment

Stakeholder ITS E	lement	Status	Entity
QR Mai	ntenance Facility	Planned	Maintenance and Construction Management
QR Met	ro Customer Information Display	Planned	Remote Traveler Support
QR Met	ro Rail Maintenance Facility	Planned	Maintenance and Construction Management
QR Met	ro Rail Maintenance Facility	Planned	Other MCM
QR Met	ro Rail Operations Control Center	Planned	Emergency Management
QR Met	ro Rail Operations Control Center	Planned	Information Service Provider
QR Met	ro Rail Operations Control Center	Planned	Public Transportation Management
QR Met	ro Rail Operations Control Center	Planned	Rail Operations
QR Met	ro Rail Operations Control Center	Planned	Weather Service
QR Met	ro Security Equipment	Planned	Remote Traveler Support
QR Met	ro Security Equipment	Planned	Security Monitoring
QR Met	ro Vehicles	Planned	Public Transportation Vehicle
QR Met	ro Vehicles	Planned	Vehicle
QR Park	king Management	Planned	Other Parking
QR Park	king Management	Planned	Parking Management
QR Park	king Management	Planned	Roadway Payment
QR Pas	senger Rail Vehicles	Planned	Other Vehicle
QR Pas	senger Rail Vehicles	Planned	Public Transportation Vehicle
QR Pas	senger Rail Vehicles	Planned	Vehicle
QR Rail	Operations Center	Planned	Emergency Management
QR Rail	Operations Center	Planned	Information Service Provider
QR Rail	Operations Center	Planned	Public Transportation Management
QR Rail	Operations Center	Planned	Rail Operations
QR Rail	Operations Center	Planned	Weather Service
QR Sec	urity Equipment	Planned	Remote Traveler Support
QR Sec	urity Equipment	Planned	Security Monitoring
QR WB	LRT Control Center	Planned	Emergency Management
QR WB	LRT Control Center	Planned	Information Service Provider
QR WB	LRT Control Center	Planned	Public Transportation Management
QR WB	LRT Control Center	Planned	Rail Operations
QR WB	LRT Control Center	Planned	Weather Service
QR WB	LRT Customer Information Display	Planned	Remote Traveler Support

Stakeholder	ITS Element	Status	Entity
(QR WBLRT Rail Maintenance Facility	Planned	Maintenance and Construction Management
C	QR WBLRT Rail Maintenance Facility	Planned	Other MCM
C	QR WBLRT Security Equipment	Planned	Remote Traveler Support
C	QR WBLRT Security Equipment	Planned	Security Monitoring
C	QR WBLRT Vehicles	Planned	Other Vehicle
C	QR WBLRT Vehicles	Planned	Public Transportation Vehicle
C	QR WBLRT Vehicles	Planned	Vehicle
C	QR WBLRT Wayside Equipment	Planned	Wayside Equipment
Regional Ent	tities		
F	Regional TMC	Planned	Other Traffic Management
F	Regional TMC	Planned	Traffic Management
Regional Eve	ent Promoters		
F	Regional Event Promoters	Planned	Event Promoters
Supreme Co	uncil of Health		
H	Hospitals	Existing	Care Facility
5	SCH HMC Ambulances	Planned	Emergency Vehicle
S	SCH HMC Flying Bird Helicopter	Existing	Emergency Vehicle