

User Stories from Meeting Cards and Brainstorm	Priority	Revised User Story
Retrieve traffic and crash data to identify safety issues	a	<p><i>I am an engineer and I want to retrieve crash information in the context of traffic speed, traffic volume, and weather data for the location and time of a specific crash because I want better data to understand what happened before a crash took place.</i></p> <p><i>I am a planner and I want to retrieve all crashes of a certain type and find where they happen most to identify locations for specific types of safety hazards.</i></p>
Retrieve time impact of crashes on traffic to justify improvements by type of crash. Include coroner performance through state police.	a	<p><i>I am an operations manager and I want to retrieve summary travel time and congestion information at selected crash locations to evaluate the impacts of crashes on traffic and to support and evaluate suggested changes in response policies.</i></p>
<p>Calculate region wide performance measures to measure improvement or lack of improvement</p> <p>Users want to monitor traffic conditions including volumes/counts, speeds, and crashes for system-level, corridor level, route level, and segment level analysis to identify need for emergency/safety improvements.</p>	a	<p><i>I am a planner and I want to calculate traffic condition performance measures such as delay, travel time and planning time indices and crashes by various geographic levels to measure trends over time.</i></p>
<p>Learn about trends in a particular location or area so we can plan response</p> <p>Detouring for planned incident. (eg construction) and change MOT plan to reduce delay.</p> <p>Dynamic detouring for unplanned incidents (have preset plans) to reduce delay including bus deployment</p> <p>Special event management and planning</p> <p>Unplanned regional event</p> <p>Dynamic detour routing</p>	a	<p><i>I am an operations manager and I want to get information about the physical characteristics of arterial roadways and traffic conditions on them to plan and implement appropriate maintenance of traffic when the main roadway is under construction, there is a special event, or there is an unplanned roadway blockage.</i></p>

<p>Look at what was on message board to check accuracy of message boards (Have better data)</p> <p>Facilitate major incident reviews with multijurisdictional regional data. (tow, fire, police, transp. Pull everyone together in 3-5 days) Show what happened and demonstrate the impact. (48 hr. turnaround good enough)</p> <p>Users want to retrieve data to evaluate incident management procedures, operations, and performance on the directly and indirectly impacted facilities – both in terms of incident management and system performance</p> <p>More objective post incident debriefing by providing actual input of long incident clearance time.</p>	<p>a</p>	<p><i>I am an operations manager and I want to access information to support an incident review with stakeholders (tow, EMS, law enforcement, and road managers) to evaluate performance in response to an incident. The information would include, among other items, a timeline of response from incident records, the length of time the road traffic was impacted, traffic speeds and volumes, and what information was being displayed on relevant dynamic or variable message signs.</i></p>
<p>Users want to calculate the variability in travel times with respect to volumes, incidents, weather, etc, and other factors that affect traffic conditions.</p> <p>Users want to evaluate impact of weather conditions (particularly extreme weather) on traffic and transit performance.</p>	<p>a</p>	<p><i>I am an operations manager and I want to have the data to understand the impact of weather on speeds and volumes for selected roads.</i></p>
<p>Users want to compare traffic conditions regardless of the agency/jurisdiction of the particular agency to assist in coordinating operations</p>	<p>a</p>	<p><i>I am an operations manager and I want to access average traffic conditions on roadway for multiple jurisdictions so I can use the information to coordinate operations with those jurisdictions.</i></p>

<p>Provide predictive travel time to have better traveler response</p> <p>Users want to retrieve traffic and transit data to inform (short term predictive) simulator models to estimate likely traffic conditions over next 15-30-60 minutes based on real-time and predicted conditions</p> <p>Predictive travel times</p> <p>Impact analysis modeling of planned construction projects to minimize impacts on and off system</p> <p>Users want to use archived data to populate regional simulation or statistical models for planning and operational issues</p> <p>Get data to support transit operations decision support system</p>	a	<p><i>I am a researcher and I should be able to access road speed, volume and travel time on any facility for selected time periods so I can populate datasets to validate and calibrate traffic models.</i></p>
<p>Users want to look at incidents that may happen during certain weather conditions in the same area (regularly) so that a correction could possibly be made</p>	a	<p><i>I am an operations manager and I want to select incidents based on weather conditions to see where weather related accidents happen. I can adjust my response to weather in those locations to reduce incidents.</i></p>
<p>Users want to retrieve static info on signals and operations data on signal timing (and signal timing options) available so that changes can be requested if required to address an operational issue</p>	a	<p><i>I am an operations manager and I want to retrieve basic information about any traffic signal when an incident arises in case a change in signal plans is needed. At minimum, I want to identify the jurisdiction and type of signal.</i></p>
	a	<p><i>I am a freight planner and I want to retrieve ID and timestamp information from pre-clearance/WIM stations to calculate truck travel times between stations. I will use this to identify origin/destination patterns and travel time information to support policy analysis.</i></p>
<p>Users want to see the effect of a major expressway incident on the arterial system and vice-versa.</p>	b	<p><i>I am a local engineer and I want identify days when major incidents happened on a nearby expressway and measure the impact on the volume of traffic and travel delay on arterials in my town to plan future local responses to such incidents.</i></p>

CMAP Transportation Data Archive User Stories 9-21-2011

Users want to retrieve operational agreements in place between various operating agencies including purpose, (?), summary information (and possibly assessment of value of same?)	c
Users want evaluate pedestrian safety issues that require design, engineering, enforcement, operational, etc. improvements.	c
Users want to retrieve data to evaluate the impact of transit service changes on transit and on all modes. (car, transit,bikes, peds)	c
What about traffic camera videos in archive?	c
Users want to access detour evacuation routes, plans for use during a major incident, emergency or special event	c
Users want to retrieve traffic and crash data to identify safety issues by calculating crash rates that are comparable across types of facilities and jurisdictions.	c