























STRENGTHS	WEAKNESSES
Progressive Agency Project Champion	Limited experience working with Citizens
Strong technical foundation	Designing mobile apps
Strong training focus at UDOT	Processing data from citizens
OPPORTUNITIES	THREATS
Improve Road Condition Reporting	Data Accuracy
Motivated Citizen Base	Internal Networking
Mobile technologies	"Hands Free" laws

Activity	Criticality	Social Media	Third-Party Data	Specialized Apps
Incident Management	Very High	Moderate	Very High	High
Traveler Information	Very High	Moderate	High	High
Work Zone Management	High	Moderate	High	Low
Special Event Management	High	Moderate	Medium	Low
Freeway Operations	High	Low	High	Low
Arterial Management	High	Moderate	High	Low
Road Weather Management	High	Moderate	Low	High
Managed Lanes	Low	Low	Low	Low
Maintenance Mgmt.	Low	Moderate	Low	Moderate



Objective	MOE Data Needs	
Perform TMC operations in a cost- effective manner.	 Monetary costs associated with social media activities, including staffing, software, etc. Capital and operating program cost 	S
Increase level of engagement with traveling public by using social media	Measure the reach of social media outlets. Number of followers Changes in reach are direct indication of information value users are seeking the information	
	 Measure use of agency supported hashtags, which indicates value of information focus and structure. Number of times agency posts are shared 	
	 Increased user confidence in real-time information obtained from agency with social media strategies Number of unique user sharing age posts with others 	ency

TSM&O	Objectiv <u>e</u>	MOE	Data Needs
Incident Detect Detection quickly	Detect incidents as quickly as possible.	 Incident detection time. Social media outlets may allow agencies to detect incidents more quickly. 	Number of incidents detected first via social media compared with other traditional means
		 Incident detection time on corridors where traditional detection/monitoring devices are 	 Differential in detection time via social media vs other means
	not available	Need to track incident detection source for all incidents.	
Incident Management	Improve safety for responders and	 Identify how using crowdsourced data can improve the TMCs 	Surveys
other travelers	situational awareness	Qualitative reviews of archived social media data and records of actions taken	
	Verify reported incidents	 The ability for an agency to verify reported incidents is important for credibility. 	Time to verify incidents detected via social media vs. those detected by other means
			Need to track verification times

Objective	МОЕ	Data Needs	
Increase quality of data available to TMC Staff Data Reliability	 Evaluate quality of crowdsourced data compared with other data sources, and ability of crowdsourced data to improve the quality of performance reporting Social media data can provide additional details about an incident that assist with the response. The reliability of social media reports. The accuracy of information incidents obtained from social media. 	 Details about incidents collected from social media vs other means. Need to track source of incident attributes to determine contribution of social media to the overall picture of the incident. Number of false positive incident reports. Percentage of new information about incidents that is correct vs. incorrect. 	
Reduce Data Latency	 Reduce the time between when an event occurs in the transportation network and when the TMC operational staff is aware of the event 	 Before and after analyses Comparing detection time across data sources 	0



