

## #74, CDTA MOBILE DATA COMMUNICATION SYSTEM REPLACEMENT

<p><b>LOCATION:</b> CDTA Service Area  <b>DESCRIPTION:</b> Upgrade or replace the mobile data communications systems including computer aided dispatching, automatic passenger counting system, real time info displays, automatic vehicle location and on-board ADA announcement system  <b>CATEGORY:</b> Transit  <b>COST:</b> \$16.50 M     <b>LIFE:</b> 10 Years  <b>SPONSOR:</b> CDTA  <b>CURRENT CONDITION:</b> System is old and needs replacement/updating  <b>FUNCTIONAL CLASS:</b> N/A  <b>AADT:</b> N/A  <b>ON PRIORITY NETWORK(S):</b> Transit</p>	<table border="1"> <thead> <tr> <th colspan="2"><b>BENEFIT/COST RATIO</b></th> <th><b>1.3</b></th> </tr> </thead> <tbody> <tr> <td>TOTAL BENEFITS (\$k/yr)</td> <td></td> <td>\$2,898</td> </tr> <tr> <td>SAFETY</td> <td></td> <td>\$248</td> </tr> <tr> <td>TRAVEL TIME</td> <td></td> <td>\$446</td> </tr> <tr> <td>OPERATING/ENERGY*</td> <td></td> <td>N/A</td> </tr> <tr> <td>ENERGY/USER</td> <td></td> <td>\$1,054</td> </tr> <tr> <td>LIFE CYCLE VALUE</td> <td></td> <td>\$527</td> </tr> <tr> <td>OTHER</td> <td></td> <td>\$623</td> </tr> <tr> <td>ANNUALIZED COST (\$k/yr)</td> <td></td> <td>\$2,242</td> </tr> </tbody> </table>	<b>BENEFIT/COST RATIO</b>		<b>1.3</b>	TOTAL BENEFITS (\$k/yr)		\$2,898	SAFETY		\$248	TRAVEL TIME		\$446	OPERATING/ENERGY*		N/A	ENERGY/USER		\$1,054	LIFE CYCLE VALUE		\$527	OTHER		\$623	ANNUALIZED COST (\$k/yr)		\$2,242
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<p><b>CONGESTION RELIEF:</b> No measurable reductions in excess delay. VMT reduced by 1,497,079. This project will enable CDTA to make their service more efficient and reliable, which would improve the image of transit and potentially increase ridership.  <b>AIR QUALITY BENEFIT:</b> Reduces VOC by 599 KG/year and NOx by 778 KG/year. Increased efficiency will reduce idling related emissions  <b>ENVIRONMENTAL MITIGATION:</b> N/A  <b>REGIONAL SYSTEM LINKAGE:</b></p>																												
<p><b>LAND USE COMPATIBILITY (PLANNED OR EXISTING):</b> CDTA's Strategic Business Plan  <b>CONTRIBUTION TO COMMUNITY OR ECONOMIC DEVELOPMENT:</b> N/A  <b>ENVIRONMENTAL JUSTICE:</b> N/A  <b>BUSINESS OR HOUSING DISLOCATIONS:</b> N/A</p>																												
<p><b>FACILITATES:</b>  <b>BICYCLING - Y</b>  <b>WALKING - Y</b></p>	<p><b>TRANSIT USE - Y</b>  <b>GOODS MOVEMENT - NA</b>  <b>INTERMODAL TRANSFERS - Y</b></p>																											
<p><b>SPONSOR PRIORITY:</b> 5 of 14  <b>SCREENING ISSUES:</b> Replacement project--might not be eligible for CMAQ  <b>OTHER CONSIDERATIONS:</b> None</p>																												

\*includes gasoline usage and ownership costs