## IDENTIFICATION AND ANALYSIS OF LOCAL AGENCY TRANSIT PROJECT PERFORMANCE CRITERIA (RESEARCH INITIATION GRANT)

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#### ABSTRACT

Improvement in delivery performance for locally managed projects will strengthen the infrastructure upon which mass transit systems depend, assist in forecasting and minimizing service disruptions, and enhance delivery of transit services in metropolitan areas. The goal of this research was to identify both positive and negative factors in the management of local transit projects that affect the local agency satisfaction with the project delivery process and affect project budget performance and schedule performance. A one-page survey was created and distributed to local agencies for data collection on completed projects. Eighteen completed surveys were returned within the research period. The data contained in these surveys is summarized in this report and analyzed with respect to project characteristics, performance, and key project success / hindrance factors. Based on the analysis, summary level information with respect to cost and schedule performance has been established, and two specific key success factors and two key hindrance factors have been identified for implementation / consideration in the management of future local transit projects. Additional data collection is recommended with additional analysis potentially leading to even more efficient use of dwindling available funds, as well as further improved project delivery according to identified success criteria.

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## DISCLOSURE

Project was funded in entirety under this contract to California Department of Transportation.

#### INTRODUCTION

The objective of this project is to identify management factors that lead to improved delivery of transit services to large metropolitan areas. Improvement in delivery performance for locally managed projects will strengthen the infrastructure upon which mass transit systems depend, assist in forecasting and minimizing service disruptions, and enhance delivery of transit services in metropolitan areas. The goal of this research was to identify both positive and negative factors in the management of local transit projects, which affect the local agency satisfaction with the project delivery process, and project budget performance, and project schedule performance. This report summarizes the research findings.

The report details a one-page survey that was created and distributed to local agencies for data collection on completed projects. Eighteen completed surveys were returned within the research period. The data contained in these surveys is summarized in this report and analyzed with respect to project characteristics, performance, and key project success / hindrance factors. Based on the analysis, specific initial policies and procedures have been recommended for implementation in management of future local transit projects. Additional data collection is recommended with additional analysis potentially leading to even more efficient use of dwindling available funds, as well as further improved project delivery according to identified success criteria.

#### BACKGROUND

As the public agency responsible for the annual delivery of over three billion dollars in construction projects, the California Department of Transportation (Caltrans) has a tremendous responsibility to effectively manage the design and construction for all phases of future projects. Of the \$3 billion, \$250 million is available for local transit projects, intended to improve transit services to all communities within our highly decentralized cities. Unfortunately, recent delivery success of these local transit projects has been only 40%, meaning only 40% of the funded transit design and construction projects are completed in the year that funding is available. The availability and quality of area-wide transit services depend on the effective management of the design and construction process for future local transit projects because the completed projects are part of the planned infrastructure necessary for future transit service, and therefore timely, cost effective completion of each project ensures overall, area-wide service availability and quality.

#### Literature Review

Literature reviews have shown that effective management has proven to be essential in controlling costs and adhering to schedules for these types of projects (Jaraiedi et al 1995). The California Department of Transportation has successfully begun the use of project management techniques to improve project delivery (Chittenden 1997), but specific policies and procedures to improve local transit project programs have not been completely developed. Identification and analysis of factors that positively or adversely influence the delivery steps, costs, and schedules of local agency projects needs to be

done in order to improve upon the 40% delivery rate for the program. The Caltrans Local Transit Project Delivery (LTPD) task force began work in early 1999 on improving the project management delivery process.

Several research articles are available that looked into the factors that influence performance of the project delivery process. Different scholars have defined several factors proven to make major impact on cost, schedule and/or quality of the global project. Project characteristics is one major factor that affects performance of a construction project. Many researchers have looked at different project characteristics such as project risks, public impacts, funding issues, constructibility, contract language and process in isolation from other parameters:

- 1. Gibson et al. (1995) emphasized the importance of pre-project planning to minimize the risk associated with construction projects. They showed that pre-project planning is an important decision support tool and can help managers to decide how to allocate resources to a construction project. A pre-project planning process was introduced and then the authors concluded that pre-project planning should be tied closely to business planning, should answer to business needs of the company, and it should be extremely emphasized, specially at the early stages of the project.
- 2. O'Conner and El-Diraby (2000) emphasized the importance of planning in reconstruction of highway projects. They specifically looked into reconstruction of Mockingbird Bridge in Dallas, Texas as a case study. The authors came up with a framework that covered major success factors, namely as Travelers Safety, Construction Safety, Enhanced Site Accessibility, Optimize Highway Capacity, Minimize Project Duration and Project Costs. These Performance Measures were broken down into site conditions that could improve performance. The interesting part of this study was the number performance measurement factors that were used. In general, in a construction project, Cost, Schedule, and quality are considered as the major evaluators of performance. This study introduced more number of performance measurement parameters that are specific to Highway construction. One could relate Quality to project characteristics such as traffic safety, traffic control planning, construction sequencing, and constructibility.
- 3. Herbsman (1995) showed the impact of A+B bidding method on project cost and schedule. In this method, the contractor bids based on both Time and Cost. Contract duration is multiplied by daily cost of road-user (usually equal to liquidated damages) and is added to cost estimate. A+B method results in significant savings in time and almost no impact on project cost. In this study, quality was not evaluated as a performance criterion.
- 4. Jarajedi et al. (1995) provided guidelines to select Incentive/Disincentive (I/D) contract method for Highway Projects and to improve performance of such projects by developing a sound structure for such contracts. The authors also showed how (I/D) provision could significantly reduce duration of the project without any major impact on the quality. Cost impacts, however, were not analyzed.
- 5. Arditi et al. (1998) conducted a study similar to Jaraiedi et al. (1995) and showed that (I/D) provision is a good instrument to contract duration of a construction project.

However, it does increase project costs in most situations. It was shown that (I/D) contracts, in general, have larger contract amounts and larger and more frequent Change Orders. The research also concluded that unfavorable results with regards to schedule appeared only in paving projects.

- 6. Arditi and Yasamis (1998) also studied the application (I/D) contracting method in highway construction. They surveyed Illinois DOT (I/D) projects and showed how it can positively impact behavior and performance of the contractors. However, they caustioned that, both the contractor and the client both should have clear understanding and appropriate perception of (I/D) contracting before its use.
- 7. Molenaar et al. (1999) studied the impact of Design-Build (DB) delivery method on the performance of Public Projects. Performance of several DB projects was evaluated based on owner's experience with DB projects, Stage of design at which DB is proposed, selection of DB contractor, Contract type, award method, and form of DB contract (one-step, two-steps, qualifications based). Performance criteria were defined by Budget Performance, Schedule Performance, Conformance with Expectations, Administrative Burden, and Owner Satisfaction. The authors summarized their findings in a table that presented advantages and disadvantages of each form of DB contracts to the others, with regards to performance criteria.
- 8. Ohrn and Schexnayard (1998) looked at another aspect of contractual arrangements specification development. They explained the concept of Performance-Related Specifications for highway projects and what are their advantages and disadvantages to traditional specifications.

Specific research on the transit and transportation project process has been done throughout the United States. Researcher findings are as follows:

- 1. Reed, Luettich and Lamm (1993) examined how to measure state transportation program performance. The research isolated and defined the key programperformance measures and indicators needed by state officials in state highway and transportation departments for effective and efficient administration of state highway and transportation programs. The research effort produced a list of 38 key programperformance measures with definitions and brief descriptions of their use. The researchers also found that the use of program-performance measures and indicators is an evolving concept. The team found that several states have initiated comprehensive programs to develop and use such tools, but no state has enough experience to cite its example.
- 2. The KFH Group (1999) conducted research to create a toolkit of management principles and techniques for use by small urban and rural public transportation providers. The kit assists in managing their transportation services and resources effectively and has two parts: a guidebook and a self-assessment tool. The guidebook provides the user with desirable service attributes and general management philosophies as well as exemplary practices for some topics. The self-assessment tool is a software tool designed to give the user a baseline or current picture of the status of the transit system.

- 3. Otto and Ariaratnam (1999) researched performance measures in highway maintenance operations. Their research examined the general theories of performance measurement systems, based on current conditions and practices in the province of Alberta, Canada, and applied them to develop examples for highway maintenance. Their research analyzed the extra considerations on a performance measurement system when private companies operates under contract to a public agency perform the work.
- 4. Poister (1997) researched the degree to which state departments of transportation have developed and implemented performance measures. The research describes how performance measures have evolved in state transportation departments, the types of measures that have been developed, and the effectiveness of such measures in assessing performance and improving productivity, as perceived by the departments. Poister found that the new generation of performance measures tends to be focused more strategically, with greater emphasis on quality. The research found that these measurement systems were determined to be more useful when they were as a result of a genuine commitment to manage programs more effectively, as opposed to a desire to just comply with reporting requirements. Poister noted that the development of such performance measures tends to be an iterative process. The work was based upon information assembled from numerous sources, including a large number of state highway and transportation departments and a topic panel of experts.
- 5. Hartman et al (1994) conducted two surveys to research how performance measures are related to financing transit. The research concluded that state funding organizations have established measures to use in assessing or monitoring local transit systems; however, few organizations provide financial assistance based exclusively on performance factors. The researchers also found that the role of the funding body, usually the state or region, also varies from an ownership position to arms-length grant programs. The research identified that state interests in the process ultimately relate to ensuring service, but they also often relate providing citizens with mobility, facilitating economic development, and achieving environmental goals.

#### Key Factors Definition

Chua et al. (1999) came up with a simple and comprehensive hierarchical model that categorizes all these factors into four groups

- External Project Characteristics
   Project Participants
- Contractual Arrangements
   Monitoring & Control

Chua then conducted a survey and collected information about the influence of these factors on three performance criteria (cost, schedule, and quality), using a pairwise comparison technique.

Chua's performance criteria can be viewed as either positive or negative enhancements to a project delivery model process. If one of the above factors/criterion (external project characteristics, contractual arrangements, project participants, or monitoring and control systems and tools) enhanced the likelihood of process success, then the factor/criterion was denoted a success factor. If defined as an action or attribute that decreased the likelihood of process success, then the criterion was denoted a hindrance factor.

Success factors are well established in the construction industry. Jaselskis and Ashley (1991) found that key success factors affect project outcomes differently. Sanvido et al (1992) also found that when certain success factors related to the project owner, engineer, contractor, or operator are completed, the likelihood for project success is increased. Parfitt and Sanvido (1993) developed a checklist as a guideline to predict the success of a project. Recent researchers have begun to apply these factors to specific types and subsets of the construction industry. Success factors are also well used on the design/procurement stages. Based on a survey of over 450 respondents, Anderson and Tucker (1994) identified 52 specific best practices in 5 project management categories for project management of the design process. These five categories were

- Strategic project organizing
- Design effectiveness
- Project control
- Management of quality
- Materials management

These categories were identified as part of best practices study for the Construction Industry Institute (CII). In this study the research team sought to define key success factors and key hindrance factors that influence Local Transit Agency Project Delivery (LTPD) performance.

#### DATA COLLECTION

After this review of existing research on transit project delivery, the second step in the study process was collection of historical local transit agency project performance data from completed projects that were done for Caltrans. The data collection process used in this step consisted of four steps

- Identification of project characteristics
- Identification of types of funding
- Identification of types of projects
- Creation and distribution of survey form to local agencies

These steps are described below.

#### **Project Characteristics – Types of Projects and Funding**

The research team from the University of Southern California worked with Caltrans staff to identify all descriptive elements of any local transit agency project. Dozens of possible data elements of a typical local transit agency project were identified. Based upon the literature review of typical key data elements, and the fact that such detailed data is not maintained by Caltrans or the local agencies, several key project characteristics were identified. The characteristics were of two types

- Descriptive (i.e. where the project was located)
- Performance (i.e. how the project performed with respect to schedule)

Two elements of particular importance in describing a project were the project type and the project funding. The research team worked with local transit agency staff to identify and compile lists for types of funding and types of projects. Figure 1 shows a list of District Numbers and their location. Figure 2 shows the 28 typical types of funding for local transit agency work. Figure 3 shows the 6 typical types of projects for local transit agency work.

#### Survey Form

In order to provide accurate and reliable information, a standard data collection survey was created by the METRANS research team to gather descriptive and performance data.



Figure 1. Map of District Numbers

5311(f)	P&E
AB2766	PIC Grade Separation
AB973	Prop 116
BSNF Participatory	PSE
CMAQ	PVEA
Construction	R/W
Dedicated transit sales tax	State hwy
ENVIR	STIP-State
FAEL	STP
Farbox revenue	STTA
FTA	TCI
FTA 5311 Assistance	TDA
Local funds	TPI
LTF	TSM

#### Figure 2. List of Types of Funding

3R	
Bikeway	
Fixed Guideway	
SB45	
Transit Operations	
Vehicle Acquisition	

Figure 3. List of Types of Projects

A first draft survey was completed in February 2000. After a first review by Caltrans of the draft survey, the METRANS project team decided to add two questions to the survey to gather information related to key success / hindrance factors (items identified as critical within the literature review). The final form of the survey is shown in Figure 3. Note that the final survey references the lists of types of funding and types of projects from Figures 1 and 2.

During the months of March, April, and May, 2000, over 100 surveys were distributed by the Caltrans LTPD staff to local transit agency staffs throughout the state. At the time of completion of this study (Decmeber 31, 2000), 18 were returned. One (1) cost record and six (6) schedule records had incomplete information and were not useful. The remaining survey data was entered as it was received into a database that was used to conduct the initial data analysis for the LTPD team.

## California Department of Transportation Local Agency Transit Project Delivery Data Collection Form

As part of Caltrans' effort to improve project delivery performance, the Local Transit Project Delivery (LTPD)Task Force is in the proc of collecting data representative completed local transit agency projects to identify performance trends and areas for improvement. Your assistance in completing this for your agency's completed projects is the first step in this effort. All information is confidential; please select projects representative of your agency. Answer all questions as best you can.

Please use one form per project; thanks for your help!

1.	Project Title PPNO number EA number			
2.	Project Location	City County Caltrans District No.		
4.	Project Type	enter the appro	ppriate number from the attached list of project ty	pes
5.	Project Funding	enter the appro	ppriate letters from the attached list of fund codes	5
6.	Project Cost	\$	(programmed amount)	
		\$	(allocation amount)	
		\$	(actual expended amount at complet	tion)
6.	Project Schedule			
	Planned Start Date		Planned Completion Date	
	Actual Start Date		Actual Completion Date	
7.	Keys to Success (alri	ght to list several)		
	Key Hinderences (alri	ght to list several)		
8.	Additional Comments	(optional; as needed)		
	ntact Name:			(for questions only!)
				_
Ple	ase return your comple	ed surveys to:		
	Elhami Nasr, LTPD Pr California Departmen District 7 120 S. Spring St.	oject Manager of Transportation (CALTRAN	Questions? Please co Elhami Nasr, LTPD Pr Tel: (213) 897-0227; ATSS: 8-647-0227	roject Manager

Figure 4. Survey Form

#### DATA ANALYSIS

Data analysis began when the first completed survey forms were received in late April 2000. As additional data were obtained, they were added to the analysis database. The final data set (18 completed surveys) was analyzed across the three characteristics/elements of the survey:

- descriptive data
- performance data
- key success / hindrance factors

The sections below detail the results of the analysis through a series of tables. <u>A diskette</u> version of the Microsoft Access Database file (containing data to date, input screens, and <u>queries</u>) is attached to this report as Appendix II.

#### **Descriptive Characteristics**

In an effort to check that the projects of the data sample were representative of all Local Transit Agency projects, three tables were generated. Table 1 is a summary of projects by district. Table 2 is a summary of projects by project type. Table 3 is a summary of projects by funding type.

Table 1 shows that for our limited sample size, the projects were somewhat spread throughout the thirteen (13) Caltrans districts (no district had more that 23% of the projects). However, three (3) districts (i.e. districts 1, 2 and 4) were not represented at all

Caltrans District Number (1)	Number of Occurrences (2)	Percentage (3)
3	1	5.56%
5	4	22.22%
6	1	5.56%
7	3	16.67%
8	4	22.22%
9	2	11.11%
10	1	5.56%
not identified	2	11.11%
TOTAL	18	100.00%

Table 1. Summary of Projects by District

Project Type (1)	Number of Occurrences (2)	Percentage (3)
3R	3	16.67%
Bikeway	1	5.56%
Fixed Guideway	1	5.56%
SB45	1	5.56%
Transit Operations	7	38.89%
Vehicle Acquisition	3	16.67%
not identified	2	11.11%
TOTAL	18	100.00%

Table 2. Summary of Projects by Project Type

and two (2) respondents did not identify the District Number. It should be noted, however, that not all districts are of equal size and each has a different level of use of transit. Table 2 shows that the projects were somewhat representative of the six (6) types of projects (identified in Figure 2); however, "Transit Operations" projects were most common (38.9%) and two (2) projects were not assigned any project types. With more data, the research team would expect all project types to be represented. Table 3 shows the large number of funds (31 funds) that were used on the eighteen (18) projects of the database. Note that several projects (12 projects, 67% of the sample) used more than one fund, and some projects used more than two funds (8 projects, 44% of the sample). The table shows that TCI funding was most frequent used (6 occurrences), but the highest funding amounts (in dollars) came from STTA and local sources (\$133 million and \$118.5 million respectively). Given the large variety of projects included in this program, the funding levels also vary greatly, depending on project type and scope. Hence, study of average funding values must be considered in this context.

Additional analysis was, however, conducted with respect to the project funding variance. Table 4 shows a summary of funding variance by type of variance (i.e. positive, negative, or none) and Table 5 shows a Summary of Funding Variance by Type of Fund. Table 4 shows how well local agencies were able to satisfy their anticipated project funding requirements. *The table shows that nearly two thirds of the projects experienced a negative funding variance, meaning the projects did not receive funding up to the amount estimated to be needed by the local agency*. Table 5 attempts to identify whether any funding source is particular susceptible to contributing to a funding deficit. A lack of data at this point does not allow this information to be determined, however, a potential reporting methodology is shown in the table.

Funding Type (1)	Number of Occurrences (2)	Percentage (3)	Average Funding (4)	High Value (5)	Low Value (6)
5311(f)	1	2.17%	\$34,000	\$34,000	\$34,000
AB2766	1	2.17%	\$6,000	\$6,000	\$6,000
AB973	1	2.17%	\$12,179,000	\$12,179,000	\$12,179,000
BSNF Participatory	1	2.17%	\$600,000	\$600,000	\$600,000
CMAQ	2	4.35%	\$1,750,306	\$3,106,292	\$394,320
Construct	2	4.35%	\$1,106,500	\$1,166,000	\$1,047,000
Constructr	1	2.17%	\$1,473,000	\$1,473,000	\$1,473,000
Dedicated transit sales tax	1	2.17%	\$306,376	\$306,376	\$306,376
ENVIR	3	6.52%	\$15,000	\$18,000	\$13,000
FAEL	1	2.17%	\$5,284,229	\$5,284,229	\$5,284,229
Farbox revenue	1	2.17%	\$34,625	\$34,625	\$34,625
FTA	1	2.17%	\$584,290	\$584,290	\$584,290
FTA 5311 Assistance	1	2.17%	\$36,604	\$36,604	\$36,604
Local	2	4.35%	\$59,254,000	\$118,484,000	\$24,000
Local funds	1	2.17%	\$3,293,708	\$3,293,708	\$3,293,708
LTF	1	2.17%	\$73,680	\$73,680	\$73,680
P&E	2	4.35%	\$37,500	\$52,000	\$23,000
PIC Grade Separation	1	2.17%	\$5,000,000	\$5,000,000	\$5,000,000
Prop 116	1	2.17%	\$31,708,000	\$31,708,000	\$31,708,000
PSE	1	2.17%	\$28,000	\$28,000	\$28,000
PVEA	1	2.17%	\$100,000	\$100,000	\$100,000
R/W	3	6.52%	\$3,000	\$3,000	\$3,000
State hwy	1	2.17%	\$50,849,000	\$50,849,000	\$50,849,000
STIP-State	1	2.17%	\$1,456	\$1,456	\$1,456
STP	2	4.35%	\$26,678,500	\$52,100,000	\$1,257,000
STTA	1	2.17%	\$133,029,000	\$133,029,000	\$133,029,000
TCI	6	13.04%	\$2,239,000	\$11,051,000	\$349,000
TDA	2	4.35%	\$2,442,563	\$4,605,126	\$280,000
TPI	1	2.17%	\$1,670,000	\$1,670,000	\$1,670,000
TSM	1	2.17%	\$163,000	\$163,000	\$163,000
Other	1	2.17%	\$13,512,355	\$13,512,355	\$13,512,355
Total / Average	46	100%	\$11,402,990	-	-

#### Table 3. Summary of Projects by Funding Type

#### **Performance Characteristics**

The second characteristic of the data collected was performance information. Two levels of performance were studied. One level of performance of the project is performance with respect to its budget. Once a project was funded, how close did the actual expenditures for the completed project come to the available funding (initial budget)? As defined in this report, a positive budget variance would be considered bad, meaning the project ran over its expected budget. The second level of performance relates to schedule. How do a project's start and finish dates compare to the original plan? In addition, once a project duration (defined as difference between completion date and start date) compare to the planned duration? As defined in this study, a positive duration variance would be considered bad, meaning the project ran over its expected bad, meaning the project ran over its expected bad.

Type of Funding		Average Percent Variance			Average Percent Variance			
Type of Funding	Total	Positive	Zero	Negative	All	Positive	Zero	Negative
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
5311(f)	1	1	0	0	47.61%	47.61%		
AB2766	1	0	1	0	0.00%		0.00%	
AB973	1	0	1	0	0.00%		0.00%	
BSNF Participatory	1	1	0	0	57.34%	57.34%		
CMAQ	2	0	1	1	-1.70%		0.00%	-3.41%
Dedicated transit sales tax	1	0	1	0	0.00%		0.00%	
ENVIR	3	0	3	0	0.00%		0.00%	
FAEL	1	0	1	0	0.00%		0.00%	
Farbox revenue	1	0	1	0	0.00%		0.00%	
FTA	1	0	1	0	0.00%		0.00%	
FTA 5311 Assistance	1	0	1	0	0.00%		0.00%	
Local	2	0	1	1	-18.73%		0.00%	-37.46%
Local funds	1	0	0	1	-72.68%			-72.68%
LTF	1	0	0	1	-99.90%			-99.90%
P&E	2	0	0	2	-44.82%			-44.82%
PIC Grade Separation	1	0	1	0	0.00%		0.00%	
Prop 116	1	0	1	0	0.00%		0.00%	
PSE	1	0	0	1	-46.43%			-46.43%
State hwy	1	0	1	0	0.00%		0.00%	
STIP-State	1	0	0	1	-7.28%			-7.28%
STP	2	0	2	0	0.00%		0.00%	
STTA	1	0	1	0	0.00%		0.00%	
TCI	6	0	4	2	-2.26%		0.00%	-6.78%
TDA	2	1	1	0	137.57%	275.14%	0.00%	
TPI	1	0	1	0	0.00%		0.00%	
TSM	1	0	1	0	0.00%		0.00%	
Other	1	0	1	0	0.00%		0.00%	
Total / Average	39	3	26	10	0.25%	126.70%	0.00%	-37.03%

## Table 4. Summary of Funding Variance by Type of Fund

Brojest	Number of		Average	Average	Budget Deviation		
Project Subgroup (1)	Occurrences	Percentage (3)	Programmed Budget (4)	Number of Funds (5)	Average Amount (6)	% of Budget (7)	
No Deviation	26	66.67%	\$20,516,570	1.3	\$0	0.00%	
Postive Deviation	3	7.69%	\$304,667	1.0	\$376,867	126.70%	
Negative Deviation	10	25.64%	\$551,208	1.3	(\$320,285)	-39.84%	
TOTAL / AVERAGE	39	100.00%	\$134,082	1.26	(\$462)	1.98%	

Table 5. Summary of Funding Variance by Type of Variance

Four tables show the analysis. Table 6 shows a summary of budget variance by type of variance. The table shows that <u>over three quarters of the projects had no budget variance from the budgeted amount</u>; the remaining one quarter of the projects were almost equally divided between performing over and under budget. Tables 7 through 9 examine schedule performance. Table 7 shows a summary of project start date deviations by type of variance. Table 8 shows a summary of project duration deviations by type of variance. Table 9 shows a summary of project duration deviations by type of variance. Table 9 shows a summary of project duration deviations by type of variance. These tables show that <u>half of the projects started later than planned and three quarters of the project duration, two thirds of the projects took longer to complete than originally planned</u>. Future studies should attempt to determine when in the project life cycle the budget and schedule changes occur. It is possible that certain phases of the project may trigger these changes.

#### Key Success/Hindrance Factors

The third characteristic of the data collected was key factors. These factors were items identified by the local transit agencies that were deemed to have been keys to success or key hindrances for a specific project. Two tables are used to show these results. Most surveys listed several key factors (both success and hindrance) for any individual project. Table 10 shows a summary of key hindrances and the eleven key factors identified through the surveys. Table 11 shows a summary of keys to success and the eight key factors identified through the surveys. As shown in the tables, *the two primary keys to project success were identified as "Caltrans Staff Assistance" and "Established Funding Procedures"*. An examination of the key success and key hindrance across funding type and project type will be possible as additional data is collected. Given the current lack of data, no conclusions could be reached at this time with this analysis. An examination of factors based on project performance is possible at this time, and the examination follows this section.

Drainat	Number of		Average	Average	Budget Deviation		
Project Subgroup	Occurrences	Percentage	Programmed Budget	Number of Funds	Average Amount	% of Budget	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	
No Deviation	35	76.09%	\$13,826,448	1.46	\$0	0.00%	
Postive Deviation	5	10.87%	\$1,829,673	1.67	\$51,930	24.23%	
Negative Deviation	6	13.04%	\$3,690,956	1.2	(\$62,498)	-69.45%	
TOTAL	46	100.00%	\$11,118,080	1.44	(\$4,897)	-8.58%	

### Table 6. Summary of Budget Variance by Type of Variance

 Table 7. Summary of Project Start Date Deviations by Type of Variance

<b>.</b>		Start Date				
Schedule Performance	Frequency	Percentage	Average Deviation			
(1)	(2)	(3)	(4)			
No Deviation	5	41.67%	-			
Positive Deviation	6	50.00%	342 days			
Negative Deviation	1	8.33%	(332) days			
Total / Average	12	100.00%	143 days			

• • • •	Finish Date				
Schedule Performance	Frequency	Percentage	Average Deviation		
(1)	(2)	(3)	(4)		
No Deviation	3	25.00%	-		
Positive Deviation	9	75.00%	361 days		
Negative Deviation	0	0.00%	N/A		
Total / Average	12	100.00%	270 days		

# Table 8. Summary of Project Completion Date Deviationsby Type of Variance

 Table 9. Summary of Project Duration Deviations by Type of Variance

Project	Project Number of Average		Schedule I	Deviation	
Subgroup (1)	Occurrences (2)	Percentage (3)	Project Duration (4)	Average No. of Days (6)	% of Total Duration (7)
No Deviation	2	16.67%	364 days	0 days	0.00%
Postive Deviation	8	66.67%	1005 days	231 days	34.13%
Negative Deviation	2	16.67%	197 days	-160 days	-12.30%
TOTAL / AVERAGE	12	100.00%	764 days	127 days	16.65%

Hindrance Criteria (1)	Number of Occurrences (2)	Percentage (3)
Bureaucracy	4	16.00%
Caltrans Process & Procedures	2	8.00%
Caltrans Staff Assistance	1	4.00%
Contractors	3	12.00%
Engineering	1	4.00%
Environmental Issues	1	4.00%
Established Funding Procedures	1	4.00%
Local Staff Assistance	3	12.00%
State Process & Procedures	1	4.00%
Suppliers	2	8.00%
Unexpected Issues	1	4.00%
No Comments	5	20.00%
Total	20	100.00%

## Table 10. Summary of Key Hindrances

 Table 11. Summary of Keys to Success

Success Criteria (1)	Number of Occurrences (2)	Percentage (3)
Caltrans Staff Assistance	9	26.47%
Cooperation among entities	4	11.76%
Established Funding Procedures	9	26.47%
Local Staff Assistance	4	11.76%
Ongoing Operations	4	11.76%
Program Flexibility	1	2.94%
Suppliers	1	2.94%
Training Programs	1	2.94%
No Comments	1	2.94%
Total	34	100.00%

#### DIFFERENTIATION ANALYSIS

Despite the shortage of data, the research team next attempted to identify whether any project characteristics were more common to projects which performed better (with respect to budget and schedule) than in projects which did not perform as well. In order to make this differentiation, the team categorized the results into "Successful Projects" and "Special Projects" as defined below:

- *Successful Project:* Neither cost variance (expended allocated) nor schedule duration variance (actual duration planned duration) should be greater than zero (i.e. no cost overrun AND no duration / schedule slippage)
- *Special Project:* At least one of the two variances (cost and/or schedule) performed poorly (i.e. either cost overrun or schedule slippage, or both)

Table 12 shows the data sample breakdown between successful and special projects. As seen in the table, nearly two thirds of the projects were categorized as special, with most of the special projects resulting from schedule problems (65%). The table shows the average cost deviation for special projects to be \$32,000 (over budget) or about 10% of the expected budget. The average schedule duration deviation for special projects was 264 days (delayed) or 36% of the total duration.

#### Key Success/Hindrance Factors

The one characteristic of the differentiated data that has immediate value, despite the lack of surveys, is key factors. These factors were items identified by the local transit agencies that were judged to have been keys to success or key hindrances for the specific project, but, in this analysis, the factors are divided based upon the successful/special project differentiation explained above.

Two tables are used to show these results. Table 13 shows a summary of keys to success for successful and special projects. The table shows that "Established Funding Procedures" and "Ongoing Operations" were the two key success factors for projects that performed well. In other words, the success of the projects that were truly successful was believed to be a result of appropriate funding and development and implementation of a sound and well-structured procedure. Table 13 also shows that "Established Funding Procedures" and "Caltrans Staff Assistance" were the two key success factors for projects that did not perform well. That means even special projects were perceived to be successful due to the above two factors.

The summary of key hindrance factors divided based upon the successful/special differentiation is not as clear. Table 14 shows a summary of key hindrances for successful and special projects. The table shows a large number of keys for projects that performed well and for projects that did not perform well. The keys are diverse and mostly common to both the successful and special projects types. Additional data is needed to reach conclusions, but it appears that "Contractors", "Bureaucracy", and "Local Staff Assistance" may be critical factors.

## Table 12. Summary of Successful and Special Projects – Overall

	Number		COST			s	CHEDULE	E	
Project Classification	of Occur.	Percent	Average No.	Average	Average Deviation		Average	Average	Deviation
			of Funds	Amount	Amount	Percent	Duration	Amount	Percent
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Successful Projects	4	36.36%	3	\$1,670,206	(\$10,632)	-3.51%	281 days	-80 days	-31.11%
Schedule Slippage	7	63.64%	1.71	\$13,643,452	\$32,138	9.85%	1097 days	264 days	36.31%
Funding Sleepage	2	18.18%	2	\$300,333	\$136,494	69.66%	758 days	271 days	40.93%
Sch. & Fund Sleepage	2	18.18%	2	\$300,333	\$136,494	69.66%	758 days	271 days	40.93%
Total Special Projects	7	63.64%	2	\$13,643,452	\$32,138	9.85%	1097 days	264 days	36.31%
TOTAL / AVERAGE	11	100.00%	2	\$9,289,545	\$16,585	4.99%	800 days	139 days	11.79%

Success	Successful Projects		Special Projects		
Category	No. of Occurrences	Percentage	No. of Occurrences	Percentage	
(1)	(2)	(3)	(4)	(5)	
Caltrans Staff Assistance	1	10.00%	4	28.57%	
Cooperation among entities	0	0.00%	2	14.29%	
Established Funding Procedures	3	30.00%	5	35.71%	
Local Staff Assistance	2	20.00%	1	7.14%	
Ongoing Operations	3	30.00%	1	7.14%	
Suppliers	0	0.00%	1	7.14%	
Training Programs	1	10.00%	0	0.00%	
Total	10	100.00%	14	100.00%	

### Table 13. Summary of Keys to Success – Successful vs. Special Projects

### Table 14. Summary of Key Hindrances – Successful vs. Special Projects

Hinderance	Successful P	rojects	Special Projects		
Category	No. of Occurrences	Percentage	No. of Occurrences	Percentage	
(1)	(2)	(3)	(4)	(5)	
Bureaucracy	2	28.57%	2	20.00%	
Caltrans Process & Procedures	1	14.29%	0	0.00%	
Caltrans Staff Assistance	1	14.29%	0	0.00%	
Contractors	1	14.29%	2	20.00%	
Engineering	0	0.00%	1	10.00%	
Established Funding Procedures	1	14.29%	0	0.00%	
Local Staff Assistance	0	0.00%	2	20.00%	
State Process & Procedures	0	0.00%	1	10.00%	
Suppliers	0	0.00%	1	10.00%	
No Comments	1	14.29%	1	10.00%	
Total	10	100.00%	14	100.00%	

#### Future Analysis

As additional data becomes available, the power of the differentiation analysis can be truly recognized. Practically all of the tables of this report can be re-run based upon the two categories or even upon the subdivisions within the special projects category. Analyses of particular interest would be

- Examination of successful/special projects verses type of project
- Examination of successful/special projects verses size of project
- Examination of successful/special projects verses type of funding
- Examination of successful/special projects verses number of funds per project
- Examination of successful/special projects verses funding variation

Again, as was the case for the analysis that has already been done, once the database queries for these examinations has been done, monitoring and reporting of the results can take place as data comes available and/or as the analysis is needed.

#### **CONCLUSIONS AND RECOMMENDATIONS**

The study has accomplished several major milestones in the analysis and improvement of the local transit agency project delivery process. The study achieved the following:

- Formalized the data collection process identified list of data items to be collected (survey form), identified list of types of funding, identified list of types of projects
- Collection of data on 18 completed local agency transit projects
- Development of a data analysis methodology and presentation formats, using databases and spreadsheets. Development of capability to perform automated statistical analysis upon compilation of additional information true a user-friendly database form. A diskette version of the Microsoft Access Database file (containing data to date, input screens, and queries) is attached to this report as Appendix II. The program can be enhanced to incorporate additional analysis tools, as needed.
- Completion of data analysis for 11 completed projects. Specific findings to date are:
  - 1. Nearly two thirds of the projects experienced a positive funding variance, meaning the projects did not receive funding up to the amount estimated to be needed by the local agency.

- 2. Three quarters of the projects had no budget variance from the funded amount;
- 3. Half of the projects start later than planned and three quarters of the projects surveyed are completed later than planned.
- **4**. With respect to project duration, two thirds of the projects took longer to complete than originally planned.
- 5. The average cost deviation for special projects was \$32,000 (over budget) or about 10% of the expected budget. The average schedule duration deviation for special projects was 264 days (delayed) or 36% of the total duration.
- Creation of a list of key success/hindrance factors based on initial data set. Findings to date are:
  - 1. The two primary keys to project success were identified as presence of "Caltrans Staff Assistance" and having an "Established Funding Procedure".
  - 2. The primary key hindrances were excessive "Bureaucracy", and poor "Local Staff Assistance.

Some work remains to be researched by future METRANS teams and/or Caltrans. Specifically with respect to the local transit agency process, the following items are needed:

- Collection of additional data (to an amount so as to allow statistical justification of conclusions)
- Development of a framework to facilitate the data collection process (webbased/email)
- Development of automated project performance analysis methods through standard software packages in order to facilitate the Caltrans and local agency management and reporting efforts.
- Additional analysis of data particularly to determine when in the project life cycle the budget and schedule changes occur and whether key success and key hindrance factors vary across funding type and project type.

#### IMPLEMENTATION

The implementation of the research findings has <u>immediate</u> practical application in three areas. The findings can be used by Caltrans Local Transit Project Delivery (LTPD) staff to:

- Begin data collection of existing projects as they come to completion through use of the data collection project survey form.
- Report program and project status using completed data forms and analysis methodology detailed in this report.
- Begin storage of completed project data in a master LTPD database. A diskette version of the Microsoft Access Database file (containing data to date, input screens, and queries) is attached to this report as Appendix II.

The recommended procedure for implementation of the findings in these two areas is through formal presentation of report findings and implementation suggestions to LTPD staff.

The implementation of the research findings also has <u>potential</u> practical application in two areas. The findings can potentially be used by Caltrans LTPD staff to:

- Continue the data collection process as projects are completed, create a statistically significant sample, confirm and/or deny and expand upon the key success/hindrance factors proposed in this report
- Facilitate program and project status reporting through web-based data collection forms and automated analysis methodology and report templates.

The recommended procedure for potential implementation of the findings in these two areas is through formal presentation of report findings and implementation suggestions to LTPD staff and further work by the Caltrans LTPD teams and METRANS researchers in these two areas.

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## **APPENDIX I**

The following pages contain the 18 data surveys completed by local agencies.

	use one form per project;	thanks for your help!	1.0			
	Project Title	N 98-99 PROTATI		to Cornel	7/1/18-0	- Jab
	Project Description	geptie transit	SERVICE IN SANTA ORU			
	Project Location	City / County	SANGTA GEVZ COUNTY	·	Callrans Dist.	
	Project Type	(see neverse side for exa	OPERATIONS		PPNO#	<u></u>
	Project Funding					41 <b>1</b>
	Fund Type	Programmed	Allocated		Expended (ac	<sup>.</sup>
a	<u>Tbr</u>	\$ <u>4455,126</u>	4,60-2126	<u>,</u>		40 40
ь	FTA	<u>5412</u> 218		, ·	5 264 2	
c d	RAFEZ-	\$13 459 747	13 512,355	· · · · ·	13 512 3	95
e	OUCH COMPL	s				
-	Total Project Cost	s 2464,000	24,856,00	<u>o</u> 2	2 <u>4,856,</u> 0	<u>~</u>
	Project Schedule (Da	ites)				
	Planned Start	Planned Completion	n Actual Start	1000	Actual Comple	
	7111144	<u>6 130119</u>	<u> 19 7/[//</u>	199E	$6/\overline{x}$	11999
	Keys to Success (Fee	el free to list several)	O ONGONI OFFRANC	<u>M5</u>		
	@ FATHELISHOD	FUNDING PROCEDURE	<u></u>			
	Major Hindrances (Fe	eel free to list several)	BICESSIVE DOLUMEN	TATION F	or MA	ARLICATI
		······································		··		
	Additional Comments	s (oplional; as needed)				
		,,	<u> </u>			
					a a dull	
ontac	t Name: The//	AS HISTNER	email: <u>thiltine</u>	(for question		

## California Department of Transportation Local Agency Transit Project Delivery Data Collection Form

As part of Californs' effort to improve project delivery performance, the Local Transit Project Delivery (LTPD)Task Force is in the process of collecting data that is representative of <u>completed</u> local transit agency projects in order to identify performance trands and areas for improvement. Your assistance in completing this for your agency's completed projects is the first step in this effort. All information is confidential; please select projects representative of your agency. Answer all questions to the best of your ability. Return to California by April 21, 2000.

Please use one form per project; thanks for your help!

1.	Project Title Project Description	Operate Sunday Service for 2 years CMAQ funding for new service start up			
<b>2</b> .	Project Location	City / County Modesto		Caltrans Dist. No. 10	
3. Project Type		Transit (see reverse side for exemples)	PPNO# CML 5059 (46)		
4. b c d	Project Funding Fund Type CMAQ LTF	Programmed           \$ 394, 320           \$ 73,680           \$           \$	Allocated 394,320 73,680	Expended (actual) 380,874 71.151	
	Total Project Cost	\$ <u>468,000</u>	<u>468.000</u> ,	452,025	
5.	Project Schedule (Dates) Planned Start 10 / 01 / 97	Planned Completion	Actual Start 11 / 03 / 96	Actual Completion	

 Keys to Success (Feel free to list several) Adequate demand for Sunday Service. Appropriate routing and scheduling.

Major Hindrances (Feel free to list several) Paperwork for FTA who administers the grant was less burdonsome than the Caltrans paperwork requesting transferring the funds to FTA.

 Additional Comments (optional; as needed) Modesto is an urbanized area of more than 200,000 We deal directly with FTA for all Federal Transit Funding with the exception of CMAQ.

Contact Name; Phone:	<u>Terry Easley</u> (209) 577-5317emai <sup>r</sup>	(for questions only!) teasley@ci.modesto.ca.us	
,	ompleted surveys to:	Questions? Please contact Elhami Nasr, LTPD Project Manager Tel: (213) 697-0227	
Elhami Naar, LTPD Project Manager California Department of Transportation (CALTRANS), District 7 120 S. Spring St. Los Angeles, CA 90012		Fax: (213) 897-0381 elbami_nasr@dot ca.goV	

eles 👫 en /	California Department of Transporta	tion
· / · · · ·	Local Agency Transit Project Delivery Data Co	llection Form
of collecti improven please se	of Cattrans' effort to improve project <u>delivery performance</u> , the Local Transit Project Delivery (L) ting data that is representative of <u>completed</u> local transit agency projects in order to identify p ment. Your assistance in completing this for your agency's completed projects is the first step in elect projects representative of your agency. Answer all questions to the best of your ability. R ise one form per project; thanks for your help!	TPD)Task Force is in the process erformance trends and areas for this effort. All information is confidential;
1.	Project Title <u>HYDE 77 KURHU ULEFHING 15</u> Project Description OREPATE PUBLIC TRANST SERVICE IN THE	HISTAINCE Nov-Uksanites anca a sana G
2.	Project Location City / County SINIA Qave COUNTY	Caltrans Dist. No. 05
3.	Project Type 01 EFCATIONS (see reverse side for examples)	PPNO #
4. b c d e	Project Funding         Programmed         Allocated           Fund Type         Programmed         Allocated           Spectrates         1206 376         206 376           Prid         6 5311 Assertance         5 26 604         36,604           Prid         6 5311 Assertance         5 (34,625)         36,604           Prid         5 (34,625)         (34,615)         36,604           Prid         5 (34,625)         (34,615)         37,65           Total Project Cost         \$ 377,605         377,605	Expended (actual) 306 376 26 664 (34 675) 377,605
5.	Project Schedule (Dates) Planned Start Planned Completion Actual Start 7 / / / / 1998 6 / 30 / 1949 7 / / / 19	Actual Completion
6.	Keys to Success (Feel free to list several) O <u>ONGDING OPPEATONG</u> TRANSING OF PERSONNEL RECEVENTIONT.	PERVICED NO PEOLARMAN
	() ESTABLISHED GALTERANKS PROCENUTES, FOR ALL	CAMON APPLICATION, F PROSECT.
7.	Additional Comments (optional; as needed) <u>THUS IS A VERY EFFE</u> ADMINISTRATE AT CHITRANS THROUGH THE BLAD.	CIENT LAANT BOLLDAM
Contact Phone:	t Name: THAMAL HILTNETZ 831-426-6080 email: thiltAet@	(for questions only!)
Please	retum your completed surveys to:	Questions? Please contact: Elhami Nasr, LTPD Project Manager
	Elhami Nasr, LTPD Project Manager California Department of Transportation (CALTRANS), District 7 120 S. Spring St., Los Angeles, CA 90012	Tel: (213) 897-0227 Fax: (213) 897-0381 eihami_nasr@dot/ca.gov

#### CITY OF CORCORAN PUBLIC WORKS MEMO

and a second contraction of the second s

DATE:	04/27/2000	
TO:	DARIA SIMOLKE, CALIRANS	
FROM:	STEVE KROEKER	
RE:	CALTRANS	

Here are my answers to your Data Collection Form.

Project 1.

1. Project File -

A/C Overlay

Project Description -

Grinding placement of reinforcing fabric, 2" A/C overlay, re-stripping and manhole adjustments locations within the City of Corcoran.

2. Project Location

City of Corcoran / Kings County

Caltrans District Number

6 - Fresno

3. Project Type

SB45

PPNO#

COR-01/15

4. Project Funding

Fund Type	Programmed	Allocated	Expended (actual)
STIP - State	1,456,000.	1,456,000.	1,350,000.

ι

CITY OF CORCORAN - PUBLIC WORKS MEMO: CALTRANS



We currently have several CMAQ projects in the works; they are as follows;

- 1. New Transit Buses (2) \$250,000.00 +/-
- 2. New CNG Vchicles (19) 375,000.00 +/-
- 3. New CNG Fueling Station (1) 250,000.00 +/-
- 4. Traffic light replacements (3) \$375,000.00 +/-

The new bus project has been in the process for over a year and a half. Some of this is because we agreed to change the application from one to two buses. The other projects have all been in the process over one year and we do not know when they will be completed. The main problem is that there is a lot of work in this process. We do not do applications for Caltrais projects on a regular basis. Since the requirements may change, some of the applications do not fit into the normal categories. Sometimes there are too many new people trying to assist us in this process so we have a hard time completing this process in what we would consider a timely manner.

On our bus project, we have had at least three different people assigned to this project. Each time we get a new person it is like a new application and this is the same for all of these applications.

I would suggest that the people in Caltrans consider that while this is all they may do, it is only portion of our day, month or year. We do these applications occasionally between many other projects that we have to complete from picking up dead dogs to completing City Master Plans. It may sound lazy but for a City the size of Corcoran, we need a "One Stop Shopping" point where we can come in and say "We need money for this". Then whoever is sitting on the other side of the desk would say "Come back in three weeks". "If there is money available for your project we will have some papers for you to sign or a resolution for your Council to adopt". This person would then let us know when the mency is available. We do not need help choosing projects, designing projects, or completing projects, we need help in all of the pre-construction portions of the application and project.

I understand that Calcrans does an awful lot in completing the application process and we all appreciate it. In spite of all of this, a large portion of this money is not getting to the small cities like the City of Corcoran because the staff is not available to complete the process. The staff is not available because there is not enough money to hire the required people.

I have always wondered why does Caltrans use engineers to do this work, - the application process is not engineering,

I hope this will help and that it makes some sense to you, if you have any further questions please feel free to contact me here at the City of Corconut.

Steve Krocker, City of Corcoran - Public Works Director

#### 04/27/2000

#### CITY OF CORCORAN - PUBLIC WORKS MEMO: CAUIRANS

1,350,000.

#### 5. Project Schedule (Dates)

Planned Start	Plarmed Completion	Actual Start	Actual Completion
7/1/99	11/15/99	8/99	:2/99

1,456,000.

6. Keys to Success

Local assistance at the County and State levels. The City of Corcoran is a small rural community with a small Public Works Department. We do not have all of the engineers and people available to respond to all of the questions, requests for information, to complete all of the required forms / documents and other elements often required by these grants.

#### Major Hindrances

Getting the money once the contractor involced for the work completed. We took the admonition serious that if we did not use the money we would loose it so we worked hard to complete the projects quickly and when we submitted the involces the State was not ready to start paying.

#### Additional Comments

Before my accepting this position the City of Corcoran did not apply for too many of projects of this type due to the formulable process that many of these projects require. As I mentioned before we are not a large department with the staff and engineers that a City seems to need in order to be successful in funding these projects. While I am willing to do a lot of paper work for the amount of money we are talking about. However, with all of the other things we have to deal with there often just is not enough time to complete this process. This issue is even more of a problem when there are problems with the directions we receive, the forms, receipt of the forms and additional information being requested as a result of the application.

We have just completed a construction project involving the Corcoran Depot. This project was completed with CMAQ, STIP and various other fund sources. The completed project was just under one million dollars. This project went as smooth as possible but it took a great deal of time due to the various agencies which had to approve the project and to complete the plans to meet these requirements. The entire project took over 5 years. The main reason this project went so well was that the people involved with the project with Caltrans were very experienced in completing the applications and projects of this type.

2

TRUM VERE COD OWN HOUSE

As part of Caltrans' effort to improve project delivery performance, the Local Transit Project Delivery (LTPD) Task Force is in the process c collecting data that is representative of <u>completed</u> local transit agency projects in order to identify performance trends and areas for in provement. Your assistance in completing this for your agency's completed projects is the first step in this effort. All information is confidential; please select projects representative of your agency. Answer all questions to the best of your ability. Return to Caltrans by April 21, 2000.

r <del>C</del> asi	e use one form per project, than	ks for your help!		
1	Project Title	Intermo dal	Ir an apartaki	m Center
	Project Description	Acquire Rou		m (en/er
2	Project Location	City/County Thous	nd ooks	Caltrans Dist. No. 7
3,	Project Type	Ironait Sta	1	PPN0# 773 >
4	Project Funding	(see reverse side for examples)		
-	Fund Type	Programmed	AN	
а	TIT TOT	\$ \$ \9, 000	Allocated 3 Y 9, 000	Expended (actual)
ъ		- <u>s</u>	11,000	349,000
c		\$	······································	
d e		\$		
e		\$		
	Total Project Cost	\$		
5.	Project Schedule (Dates)			
	Planned Start	Planned Completion	Actual Start	Actual Completion
	I IN IA	6 130 1 98	1 N/A	4 1301 98
		to what the	et up front portoval m to the pro-	Sirectim from
	should be,	Also, need	better troining	e ter load
	agen	<u>~/ PS,</u>		
7.	Additional Comments (option	involved	at the time a	rons staff
		- longer wi	th the prog	
Crintact I	vame: Peter-	De Hoan	V	
Pt one:	1805)64	2 - 1591, x 106 ema	il: <u>pdehoanene</u>	onsony)
Pk:ase re	turn your completed surveys to	, L		tions? Please contact:
	Elhami Nasr, LTPD Project Mi	00000r	Elham	i Nasr, LTPD Project Manager
	California Department of Tran	sportation (CALTRANS) District 7	(Tel: (	213) 897-0227
	120 S. Spring St., Los Angele	s, CA 90012		213) 897-0381
	-		leinar	ni_nasr@dot.ca.gov

and the work includes a so-

As part of Celtrans' effort to improve project delivery performance, the Local Transit Project Delivery (LTPD)Task Force is in the process of collecting data that is representative of <u>completed</u> local transit agency projects in order to identify performance trends and areas for improvement. Your assistance in completing this for your agency's completed projects is the first step in this effort. All information is confidential; please select projects representative of your agency. Answer all questions to the best of your ability. Return to Celtrans by April 21, 2000.

Please use one form per project; thanks for your help!

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		REHABILITATE 4-	TRANSTT COACHE	<
1.	Project Title	RCHABILITATE 4 - 1980	COCLETE CLACHES FOR	THTER POUNTY SERVIC
	Project Description			
2.	Project Location	City / County RIVERSIDE	RIVERSIDE COUNTY	Caltrans Dist. No. 7
3.	Project Type	TEANSIT CAPITAL (See reverse side for exemples)	Improvement	PPNO# FTA ADSAO
4.	Project Funding	•		B
	Fund Type	Programmed	Allocated	Excended (actual) # 338,778
8	LTF/TDA	\$ <u>200,000</u> \$ 200,000	\$ 200,000 \$ 200,000	178 172
b c	<u>TCI</u>	3 200,000	+ 200,000	
d				
6		\$		
	Total Project Cost	5 400,000	<sup>™</sup> 400,000	\$516,951
5.	Project Schedule (Dates)			
	Planned Start	Planned Completion	Actual Start	Actual Completion
	911195	61196	911195	111196
	Major Hindrances (Feel In エル・フィット M! FUND REQU	SCIMMUNICATIONS 1	regar <b>b</b> ing elig	UBLE MATCHING
7.	Additional Commants (o	otional; as needed)		
		1- 24/54 - 2-2-2	Gauldan Maa Harm	estions only!
Conta Phone	ct Name: <u>576</u> s: <u>909,6</u>	VE DLER, DEPUT 84.0850 #	Y GENERAL MOR HOL QUART	a, Com
Please	s return your completed surv	eya to:		uestions? Ploase contact: hami Nasr. LTPD Project Menader
	Elhami Nasr, LTPD Proje	ct Manager	T	ei: (213) 897-0227
	California Department of	Transportation (CALTRANS), Dist		ax: (213) 897-0361
	120 S. Spring St., Los Ar	geles, CA 90012	e	Ihami nasr@dot.ca.gov

#### California Department of Transportation

### Local Agency Transit Project Delivery Data Collection Form

As part of Caltrans' effort to improve project delivery performance, the Local Transil Project Delivery (LTPD)Task Force is in the process of collecting data that is representative of <u>completed</u> local transit agency projects in order to identify performance trends and areas for improvement. Your assistance in completing this for your agency's completed projects is the first step in this effort. All information is confidential; please select projects representative of your agency. Answer all quositions to the best of your ability. Return to Caltrans by April 21, 2000. Please use one form per project: thanks for your help!

1.	Project Title	CHOWCHILLA.	SREA TRANSIT E	XPLESS/CATX
	Project Description	VEHICLE ACC	ULFITION	
2.	Project Location	City/County CITY OF	CHOWCHILLA	Caltrans Dist No.
3.	Project Type	VEHICLE AC	QUIFITION	PPNO #
4.	Project Funding	(900 1040198 SIGC 101 EX2010/63)		
	Fund Type	Programmed	Allocated	Expended (actual)
a	CMAQ	s 47,130	PENDING	PENDING
6	LTF	\$ 8,970	() () () () () () () () () () () () () (	e1
c đ	······			
	<b></b>			
	Total Project Cost	\$ 56,000	41	41
5.	Project Schedule (Datas)	* ( 5311 APPLIC.	MBMITTED 8/49	<u></u>
	KPlanned Start	Planned Completion	Actual Start	J Actual Completion
	11/1/99	6/1/00	PENDING	RENDING
6.	Keys to Success (Feel free			
7.	AND ALSO AGSISTANC 2. LACK OF CALTRANS 3 STAFF T Additional Comments (optim 5 FT6 FORMS PLOGRAMME	COMMUNICATION, C. STOFF OF PROCESS URNOVER onal as needed) NOT USER-FRID	MITH. TO PROCEED. JOS! DORDINATION & WOD	PRHS TO LOCAL ERSTANDING BY VIGONS
Contact				
Phone:	(559) 435		(for ques	BUONS ONLY! FIDELAYS! R.MIT REPULTEIN
Please	return your completed surveys	r 8 10:		stions? Please contact
	Elhami Nasr, LTPD Project California Department of Ti 120 S. Spring St., Los Angi	ransportation (CALTRANS), District	Eha Tel: 7 . Fax	ami Nasr, LTPD Project Manager (213) 897-0227 : (213) 897-0381 ami_nasr@dot.ca.gov
		ETPA APPROVAL O INT DELAY IN C 1999 2 STILL WE	ハラダネオイ につい た	ENTS CANT APPROVAL ASST. WILL NOT

	brand fax trai	nsmittal memo	7671 # of pages >	nt of Transporta	
™ E/k		SY Pret		Delivery Data Co	llection Form
	HAVIS	Co.	LADOT		
Dept. / 7		A Manules Phon	*213-847 6079		PD)Task Force is in the process normance trends and areas for
Fax #		P381 FAX#	213-485-4182		his effort. All information is confidentia
	5-0 [ ]	101	13 102 11 02		etum to Caltrans by April 21, 2000.
Please L	ise one form pe	er project; thanks	for your help!		
1.	Project Title		Culver Bird. Median	BIKE Path	
	Project Desc	ription	Design + construction		on Culver Blvd. Ishan Sawle
•			Malowich	1.4 miles	
2.	Project Loca	lion	City/County LA Caby) 1	A county	Caltrans Dist. No. 7
З.	Project Type	:	Bikeways		PPNO #
		-	(see reverse side for example	es)	<u> </u>
4.	Project Fund	ing	<b>.</b> .		
-	Fund Type STP		Programmed \$ 1, 257, 000	Allocated	Expended (actual)
a b	TSM		\$ 163,000	1, 257,000	
c	TDA 3		\$ 2,80,000	70,000	
đ			\$	- 10,000	1.050, 400, 6.
9			5		
	Total Project	Cost	\$ 1,780,000	1,700,000	2,470,257.
<b>5</b> .	Project Scher	dule (Dates)			
	Planned Star	t	Planned Completion	Actual Start	Actual Completion
	<u> </u>	1 1995	6111199	7 74/1/19	95 3/1/1999
5.	L / L Kays to Succi afficial losal and and ange man ange	/ 1995 ess (Feel free to s S LA (	b / l i 199 list several) C:ty provided d cost evertur 1 dos: prime out re centrector @ Gund	7 - 4/1/19 upportal from local infictant drads 0 CATOT and C	25 311 11999 Community and des for front functione A Boss have outering my project. @ project
Contact N:	Kays to Succi affi c:af losal area and area Adjor Hindran Nome. Additional Cor	1995 ass (Feel free to Control A Control A Control A Control A A A A A A A A A A A A A A	b / l i l99 list several) C.: Ly prov: And d. Gost every and d. Gost every and a cost every and a cost every a cost every o list several) l; as needed) Wanf	7 THI 1 19 inportal from local indiciand durids 0 4A DOT and constrain of bits o constraint of bits (lor (lor	95 311 11999 Community and eles for front functione, 1 Boss have expense my project. @ profes
ontact N hone:	L / Keys to Succi Affi c'al Losal area Adam Andrea Major Hindran Done. Additlonal Cor ame:	1 1995 ass (Feel free to 5 0 4 4 (	b / l i l99 list several) C: Cy provided Gost every and Los: Phint out a centractor @ Good o list several) d; as needed) Uanf Conf Conf Conf	7 THI 199 The portal from local mathics and durids Cange Rand of bites condition with MT	95 <u>311</u> 11999 Community and des for front functions A Boss have public my project. Oprofee A, contractors, city crows
	Keys to Succe and an provide the success Additional Cor ame: um your compl Elhami Nasr, L	1995 ass (Feel free to S 2 4 c-1-4 9 c-1-4 9	b / l i l99 list several) C.:L. prov: ded d. cost exercut d. cost exercut d. cost exercut d. cost exercut contractor @ cont o list several) il; as needed) Ugaf 6 • 7 9	7 <u>T</u> <u>IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII</u>	95 <u>311</u> 11999 Community and des for front functions A Boss have public my project. Oprofee A, contractors, city crows

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As part of Caltrans' effort to improve project delivery performance, the Local Transit Project Delivery (LTPD)Task Force is in the process of collecting data that is representative of <u>completed</u> local transit agency projects in order to identify performance trends and areas for improvement. Your assistance in completing this for your agency's completed projects is the first step in this effort. All information is confidential; please select projects representative of your agency. Answer all questions to the best of your ability. **Return to Caltrans by April 21, 2000**.

Please use one fo	orm per project; than	ks for your help!		
1. Projec	t Title	Eastside Lane		
Projec	t Description	Rehabilitate, Widen, Improve Dra	inage and Pave	
2. Projec	t Location	City / Cour Walker, Mono County		Caltra/ ns District 9
3. Projec	t Туре	3R (see reverse side for examples)		PPNO #
4. Projec	t Funding	(see reverse side for examples)		
Fund T	Туре	Programmed	Allocated	Expended (actual)
a <u>Envir</u>		\$\$2000	14000	14000
b PSE		\$\$	28,000	15000
c <u>RiW</u>		\$3000	3000	
d <u>Constr</u> e		\$	1047000	0
Total P	roject Cost	\$ \$1092000	1092000	
5. Project	Schedule (Dates)			
Planne				
5		Planned Completion 9 / /00	Actual Start	Actual Completion
Major H	lindrances (Feel fre	e to list several) <u>None</u>		
7. Additio	nal Comments (op	ional; as needed)		
Contact Name:				
Phone:	John K Beck (760) 932 765	5		r questions only!)
	r completed surve		nall: <u>monopw2jb</u>	
Ełhami Californ	Nasr, LTPD Project	Manager ransportation (CALTRANS), Distri	ct 7	Questions? Please contact: Elhami Nasr. LTPD Project Manager Tel: (213) 897-0227 Fax: (213) 897-0381 elhami_nasr@dot.ca.gov

As part of Caltrans' effort to improve project delivery performance, the Local Transit Project Delivery (LTPD)Task Force is in the process of collecting data that is representative of <u>completed</u> local transit agency projects in order to identify performance trends and areas for improvement. Your assistance in completing this for your agency's completed projects is the first step in this effort. All information is confidential; please select projects representative of your agency. Answer all questions to the best of your ability. **Return to Caltrans by April 21, 2000**.

Please use one form per project; thanks for your help!

1.	Project Title	8		Crowley Lak	e Drive				
	Project Des	cription		Rehabilitate	, widen, emprove	drainage and Pave	e		
2.	Project Loc	ation	City /	County	Crowley Lake,	Mono Co		Caltrar District No. 9	
3.	Project Typ	6	<u>3R</u>					PPNO #	
4.	Project Fur	nding	(586	reverse side for ex	ampies)			For a dest (a store D	
-	Fund Type ENVIR		¢	Programmed 50000	•	Allocated 13000	n	Expended (actual)	3000
a b	PS&E		- \$ \$	15000		52000			6000
c	RIW		ۍ – ¢	3000		3000		<u></u>	0
d	Constr		\$	1473000	_	147300			0
e			- \$	· · · · · ·	_				
	Total Proje	ct Cost	\$	1541000	<u>)</u>	154100	0	3	9000
5.		redule (Dates) <sub>(</sub>							
	Planned St 5 /	art /00		Planned Comple 9/ / 00	tion	Actual Start / /		Actual Completion	
6.	Keys to Su	ccess (Feel free	to list	several}~	Assistance from	n Caltrans &DLAE			
	Major Hind	rances (Feel free	e to lis	t several)	None	······			<b></b>
		·							
7.	Additional	Comments (opti	onal;	as needed)					
Contact Phone:	Name:	John K. Beck (760) 932 7655	;		email:	monopw2jb	(for questi	ons only!)	
Diagon	return your or	mpleted survey	e to:		_		Que	tions? Please contact:	
riease i	Elhami Nas California I	sr, LTPD Project	Mana; ranspo	ortation (CALTRA	NS), District 7		Elhan Tel: Fax:	tions? Please contact: ni Nasr. LTPD Proiect Manaou (213) 897-0227 (213) 897-0381 mi_nasr@dot.ca.gov	ər

As part of Caltrans' effort to improve project delivery performance, the Local Transit Project Delivery (LTPD)Task Force is in the process of collecting data that is representative of <u>completed</u> local transit agency projects in order to identify performance trends and areas for improvement. Your assistance in completing this for your agency's completed projects is the first step in this effort. All information is confidential; please select projects representative of your agency. Answer all questions to the best of your ability. **Return to Caltrans by April 21, 2000**.

	one form per project; than	is for your help!			
	roject Title	Lower Rock (	Creek Road		
P	roject Description	Rehabilitate,	Improve Drainage a	nd Pave	· · · · · · · · · · · · · · · · · · ·
2. Pi	oject Location	City / County	Paradise, Mo	no County	Caltrans Dist. No.
3. Pi	oject Type	3R			PPNO #
4. Pi	oject Funding	(see reverse side fo	or examples)		
	Ind Type	Programmed	1	Allocated	Expended (actual)
	<u>Wir</u>	\$2	6000	18000	18000
_	\$ <u>E</u>	\$1;	5000	23000	13000
	W	\$	3000	3000	
d <u>C</u> e	onstructr	\$ <u>116</u>	6000	1166000	
 To	tal Project Cost	\$1210	0000	1210000	
5. Pr	oject Schedule (Dates)				
	anned Start	Planned Com	nlation	Actual Start	tehnel Osmalatis
	/ /00	9/ /00	aprecion		Actual Completion
	ijor Hindrances (Feel fre	e to list several)	None		
7. Ad	ditional Comments (opt	ional; as needed)			
Contact Nam	e: John K. Beck				or questions only!)
Phone:	(760 932 7655	······································	email:	monopw2jb	si quotini o ingij
Please return	your completed survey	s to:	·		Questions? Please contact:
Ca	ami Nasr, LTPD Project lifornia Department of T ) S. Spring St., Los Ange	ransportation (CALT	RANS), District 7		Elhami Nasr. LTPD Proiect Manager Tel: (213) 897-0227 Fax: (213) 897-0381 elhami_nasr@dot.ca.gov_

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Disease	· · · · / · · · · · · · ·		
Please use	one mm ner r	nmiect' manks	for vour boint
1 10000 000	one round por p	nvjovi, avanna	
Please use	one form per p	project; thanks	tor your neip!

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1.	Project Tit Project De		Arlington Avenue Un	iderpass @ BNSF F	Railroad Crossing Project		
2.	Project Lo	-	City / County	Riverside/River	rside	Caltrans Dist. No. 08	
<b>,</b>	Orelant Tu		<u> </u>	·			,
3.	Project Ty	/pe	(see reverse side for	r examples)		PPNO #	
4.	Project Fu	unding	(000 1010100 0120 10.	over provi			
	Fund Type		Programmed		Allocated	Expended (actual)	
а		e Separation	\$ 5,000,				5,000,000
Ь	CMAQ		\$ 3,106,	292	<del></del>	Note	3,106,292
C	Local Fund		\$ 3,293,	708	· · · · · · · · · · · · · · · · · · ·	Note	900,000
d	BSNF Part	ticipatory	\$ 600,	,000		Note	944,013
e	TĈI		\$500,	000		• • · · · · · · · · · · · · · · · · · ·	500,000
	Total Proj	ect Cost	\$12,500,	.000	·		10,450,305
5.	Project Sc	chedule (Dates)					
	Planned S	Start	Planned Com	pletion	Actual Start	Actual Completion	
	/	1	1 1		07/13/1998		08/17/1999
	and local Major Hind	property owners drances (Feel free			ent agencies, utilities,		
7.			ional; as needed) g has not been compl	leted. Totals are es	timated.		
Contact	Mama	Depeld Veyne					
Phone:		Donald Young 909-826-5767	•• · · · · · · · · · · · · · · · · · ·	email:	(for YDON@ci.riverside.ca	questions only!)	
Please	return vour c	completed survey	rs to:			Questions? Please contact:	
	Elhami Na California	Isr, LTPD Project	Manager ransportation (CALT)	RANS), District 7		Elhami Nasr, LTPD Project M Tel: (213) 897-0227 Fax: (213) 897-0381	Ū
	120 Q. Opi	ing oil, Los Ange	sies, CA SUUTZ			elhami_nasr@dot.ca.go	<u>v</u>

Project Title Project Description			have the IL
Project Location	City/County PALM SP	KINGS / RIVERSIDE	Caltrans Dist. No. 8
Project Type	TCT FTA		PPNO #
Project Funding	fore reteran side for exemplesy		
Fund Type	Programmed	Allocated	Expended (actual)
Terme Te	1 \$ 497.750	- 631,650	549214.11
c		700/20	
e			
Total Project Cost		1119,000.00	1029155
•	*_ <u>b</u> <u>D</u> <u>1,</u> <u>b</u> <u>D</u> <u>0</u>	1031/65	577,214.
Project Schedule ( Planned Start		Land Bran	
911196	Planned Completion - 4///98	Actual Start	Actual Completion
	(Feel Tree to list servoral) Rai (Seel Tree to list servoral) Rai ys due to dis putes W	In A Salke Ore	ot helpful.
Some dela			
Some dela	nts (optional; as needed)	have a great 6t.	tim - thank

As part of Calirans' effort to improve project delivery performance, the Local Transit Project Delivery (LTPD) Task Force is in the process of collecting data that is representative of <u>completing</u> local transit agency projects in order to identify performance trends and areas for improvement. Your assistance in completing this for your agency's completed projects is the first step in this effort. All information is confidential; please select projects representative of your agency. Answer all questions to the best of your ability. Neture to Calirans by April 21, 2005 Please use one form per project: thanks for your held

1: Project Title Bus Handicapped Type ITI/State Contract **Project Description** Bakk-up Vehicle Acquisition 2. **Project Location** City/County Willows/Glenn Caltrans Dist. No. 3 \$. Vehicle Acquisition (see reverse side for examples) Project Type FRNO# 4 Project Funding Fund Type 5311(f) Programme Allocated Expended (actual) a 40,800 \$34,000 \$50,188 ь ć đ **Total Project Cost** \$\_40.800 \$34,000 \$50,188 5. Project Schedule (Dates) Planned Start Planned Completion 9 / 29 / 98 **Actual Start** Actual Completion 6 / 29 / 98 6/29/98 12/22/98 6. Keys to Success (Feel free to list several) An opportunity to purchase a new bus verses a used bus as originally approved in the 5311(f) grant

 Major Hindrances (Feel free to ist secural)
 Delivery promised in 90 days from acceptant of quote. After 90 days, several frustrating phone calls with El Dorado Bus sales person. State processed contract, after several. frustrating calls to State representative. Agency leasing vehicle during this period at \$900 a month. Problem with delivery, as we are small eperation with no drivers available to processed this bus for back-pladed in operation. Bus design is of inferior quality with confort level not to same standard as other hus purchased for our program. Ave for email: glenntransit@glenncounty.net

 Please return your completed surveys to:
 Ethami Nasr, LTPD Project Manager

 Contact Manager
 Contact Manager

Fax: (213) 897-0381

elhami nasr@dot.ca.goy

California Department of Transportation (CALTRANS), District 7 120 S. Spring St., Los Angeles, CA 90012

Examples of Project Types:

-5

Operations Vehicle Acquieition Transit Stations (bus, rail, farry) Non-Station Facilities Misc. Equipment Fixed Guldeway - Track Improvements Other: (Please Describe)

As part of Caltrans' effort to improve project delivery performance, the Local Transit Project Delivery (LTPD)Task Force is in the process of collecting data that is representative of <u>completed</u> local transit agency projects in order to identify performance trends and areas for improvement. Your assistance in completing this for your agency's completed projects is the first step in this effort. All information is confidential; please select projects representative of your agency. Answer all questions to the best of your ability. Return to Caltrans by April 21, 2000.

Please	use one form per project; the	nks for vour help!		
1.	Project Title	A1[1]	CLE PURCHAGE	
	Project Description	PUTEHASE ONS FUELER	STAFF FEPLACENT CAT	
2.	Project Location		LETRO TRANSAT DISTRICT	
3.	Project Type	See reverse side for examples		PPNO# N
4.	Project Funding	· · · · ·		
	Fund Type	Programmed	Allocated	Expended (actual)
a	AB 2766	\$ <u>,000</u>	<u>* 6000</u>	<u>*6,000</u>
b c	LOCAL	\$ <u>4,000</u>		<u>15,008.97</u>
đ		\$	·····	·····
e	······································	\$		
	Total Project Cost	\$ <u>30,000</u>	6,000	ZI 008.97
	Project Schedule (Dates)	,		
	Planned Start	Planned Completion	Actual Start 10 / 15 / 97	Actual Completion
			••••••••••••••••••••••••••••••••	
<b>3</b> .	Keys to Success (Feel free	e to list several) <u>() MEU</u>	HTCD ASSISTANCE IN	PROCESSING GRANT
	(2) METED STAFF	REGRONSIVENESS TO NEVE	2012 REP BID AND	AWARA CONTRACT
		12 100511010055 10 12 10	id idit bir nid	MUTEL CAVIAL
	(5) MANNEACTURE	ES ABILITY TO ABILIE	& VEHICLE	·····
	Major Hindrances (Feel fi	and to list several (	NEOSECT CONTRETTO	in a come tubolita
		EYULTED IN LOUS OF PROS		FINAL REPORT
		WERE GUEMITTED OCTON	Et. 1999	FINHL FEICK
	Additional Comments (op	tional; as needed)		······
Contac	Name: TAPANAL	HUTVER	lfor	tione colul)
hone:	11/2/01/		nail: <u>thiltneng conta</u>	stions only!)
lease	return your completed surve	ys to:		stions? Please contact:
	Elhomi Noor 1 TDD Desia	Managar	Elha	ami Nasr, LTPD Project Manager
	Elhami Nasr, LTPD Proje California Department of	ct manager Fransportation (CALTRANS), District 7		(213) 897-0227
	120 S. Spring St., Los An		1), with	: (213) 897-0381 ami_nasr@dot.ca.gov
		30.00, 0, , 000, 1		ann naskaadolica.qov

As part of Caltrans' effort to improve project delivery performance, the Local Transit Project Delivery (LTPD)Task Force is in the process of collecting data that is representative of <u>completed</u> local transit agency projects in order to identify performance trends and areas for improvement. Your assistance in completing this for your agency's completed projects is the first step in this effort. All information is confidential; please select projects representative of your agency. Answer all questions to the best of your ability. Return to Caltrans by April 21, 2000.

Please use one form per project: thanks for your help!

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1.	Project Title	ALTERNATIVE FUELS PROSMAM SCMT	)
	Project Description	PURCHASE & REPLACEMENT ATTERNATIVE FUEL VANUS 1	for Gasoune engine vans
2.	Project Location	City/County SHNTA CRUZ COUNTY	Caltrans Dist. No. 5
3.	Project Type	VEHICLE ACQUISITION	PPNO# NA
4.	Project Funding	(see reverse side for examples)	
	Fund, Type	Programmed	Expended (actual)
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C	. <u> </u>		
d		\$	······································
e		\$	<u></u>
	Total Project Cost	s_ <u>100,000</u>	
5.	Project Schedule (Dates)	,	
	Planned Start 12 / 31 / 98	Planned Completion Actual Start 12, 131, 149, 04, 1, 15, 199	Actual Completion 04   15   2000
_			<u> </u>
6.	Keys to Success (Feel free	to list several) <u>The Gracess of MAS PROJECT CA</u> NCE OF CEC SMAFF, MARCIA KETCH, M AND LIS	ME FROM CHIE A SALVSON.
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	@ THE PROLIFAMS FI	EXIBILITY WHICH ENABLED CHANGES IN VEHICL	LE TYPE & NUMBER.
	Major Hindrances (Feel free	e to list several)	IN SUILAING VANG.
	12 METEO NELAYS	FROM STAFF VACANCIES IN THE PUPCHASING A	FRANTMENT
			0
7.	Additional Comments (optic	nal; as needed)	
			······
Contact	Name: THOMA		tions only!)
Phone:	831 426		con
olease r	return your completed surveys		stions? Please contact:
	Elhami Nasr, LTPD Project		mi Nasr, LTPD Project Manager (213) 897-0227
			(213) 897-0381
	120 S. Spring St., Los Ange		ami nasr@dot.ca.gov

As part of Califrans' effort to improve project delivery performance, the Local Transit Project Delivery (LTPD)Task Force is in the process of collecting data that is representative of <u>completed</u> local transit agency projects in order to identify performance trends and areas for improvement. Your assistance in completing this for your agency's completed projects is the first step in this effort. All information is confidential; please select projects representative of your agency. Answer all questions to the best of your ability. Return to Caltrans by April 21, 2000.

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-	t Description	105 ANALS MER	Markine Segment	T.h
i iujec	A Description	Co. 1 Mile Sugar 25	MAN WITH 09	HATIPE 5
. Projec	t Location	City / County		Caltrans Dist. No. 7
. Projec	ct Type	?		PPNO# 9702
Projec	t Funding	(see reverse side for examples)		
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* <i>211</i>	<u>*                                     </u>	\$ 133.029.000	133.029.000	133.029.000
b 57	ŕ 📃	\$ 52,100,000	52.100.000	52,00,000
c		\$		
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Please return your completed surveys to:

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Elhami Nasr, LTPD Project Manager Cellfornie Department of Transportation (CALTRANS), District 7 120 S. Spring St., Los Angeles, CA 90012

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Questions? Please contact: Elhami Nasr, LTPD Project Manager Tel: (213) 897-0227 Fax: (213) 897-0381 elhami\_nasr@dot.ca.gov

Local Agency Specific Declivery Data Collection Form					
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1. Project Title Project Dead		of Amenger Odg 3	additional Action		
2. Project Loca	ation <u>city/county</u> Rialt	o San bernardino	Calizana Dist. No. 2		
3. Project Typ	TIME REVENUE SIDE TO FAILURE	5taties	PPNO #		
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7. Additional	James EKinten P (909) 820: 2530	ity Engineer lorgu imali cialto & GEE	assions only"		
Contact Name: Phone:	James EKialey P	imuli <u>Cialto Cec</u>	. c 19 Lestions? Plesse contact hami Nasr LTPD Project Manader M. (213) 897-0227		
Contact Name: Phone:	James EKinley ( 1909) BEO: 4530 completed surveys to:				

### **APPENDIX II**

A diskette containing a zipped version of the Microsoft Access Database file, *file name* LTPD - METRANS, (containing data to date, input screens, and queries) is attached to this report in this appendix.