

# **Third Party Transaction Cost-Benefit Analysis**

FINAL REPORT 539

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Arizona Department of Transportation 206 South 17th Avenue Phoenix, Arizona 85007 in cooperation with U.S. Department of Transportation Federal Highway Administration The contents of the report reflect the views of the authors who are responsible for the facts and the accuracy of the data presented herein. The contents do not necessarily reflect the official views or policies of the Arizona Department of Transportation or the Federal Highway Administration. This report does not constitute a standard, specification, or regulation. Trade or manufacturers' names which may appear herein are cited only because they are considered essential to the objectives of the report. The U.S. Government and The State of Arizona do not endorse products or manufacturers.

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Prepared in cooperation 16. Abstract	n with the U.S. Departr	ment of Transportatio	n, Federal Highw	ay Administration
This project involves a compreher Department of Transportation (AD	nsive analysis of direct and i	ndirect costs of transacting	y business via third pa	arties versus Arizona
analysis examines the third party				
to MVD of providing a transaction	through a third party versus	the cost to provide the sa	me transaction in an I	MVD office.
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	Cost Mode	l Summary by Channel		
Customer Service	Renew by Mail	Third Party	Service A	rizona
Cost Per Transaction	Cost Per Transaction	Cost Per Transaction	Cost Per Tra	ansaction
\$ 12.80 \$	2.42	\$ 11.	74 \$	4.60
* Renew-by-Mail and ServiceArizona only	y include Registration Renewals			
In addition to the cost savings of the	Third Party Program, the Progr	am provides a number of sig	nificant intangible bene	fits, such as:
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<ul> <li>Improved ima</li> <li>Process impr</li> </ul>	age of MVD responsiveness			
<ul> <li>Demonstrate</li> </ul>	d success of e-government			
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ft	feet	0.305	meters	m	m	meters	3.28	feet	ft
yd	yards	0.914	meters	m	m	meters	1.09	yards	yd
mi	miles	1.61	kilometers	km	km	kilometers	0.621	miles	mi
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### **GLOSSARY OF ACRONYMS**

AAMVA	American Association of Motor Vehicle Administrators
ACI	Arizona Correctional Industries
ADOT	Arizona Department of Transportation
ATRC	Arizona Transportation Research Center
CDL	Commercial Driver's License
CGP	Competitive Government Partnerships
CIO	Chief Information Officer
CSS	Custom System Solutions
D/L	driver's license
DDL	Digital driver's license
DOA	Department of Administration
DPS	Department of Public Safety
e-government	electronic service delivery system for government
ERE	employee/employer related expenses
ESD	electronic service delivery
FMS	Financial Management Services
FTE	full time equivalent employee
FY	fiscal year
GAO	General Accounting Office
GITA	Government Information Technology Agency
HEAT	Help Desk Expert Automation Tool
IBM	International Business Machines
ID	identification
ISS	Internet Security System
IT	information technology
ITD	Intermodal Transportation Division
ITG	Information Technology Group
IVR	Interactive Voice Response
KB	kilobyte
LAN	local area network
MV	motor vehicle

Motor Vehicle Division
Motor Vehicle Record
Office for Excellence in Government
Office of Management and Budget
organization
over-the-counter
personal computer
Quality Assurance
renew-by-mail
Title & Registration
Temporary Registration Permit
Transportation Support Group
User to Network Interface/AAMVA Network
Vehicle License Tax
wide area network

### **EXECUTIVE SUMMARY**

### INTRODUCTION

The Arizona Department of Transportation (ADOT), Arizona Transportation Research Center (ATRC), selected consultants from Data Site Consortium, Inc. to perform a cost-benefit study of the Motor Vehicle Division's (MVD) Third Party Program. The Third Party Program is a tool of competitive government that allows MVD to improve service quality and enhance customer service and satisfaction. ATRC and MVD desired a study to quantify the benefits and cost savings of third parties in offloading work and expense from MVD. This is particularly important as the potential increases for third parties to grow, and continued emphasis is placed on budget management and reducing wait times in MVD offices.

The project scope included a comprehensive analysis of direct and indirect costs of transacting business in third parties versus MVD field offices, including long term and short term costs. The analysis includes examining the third party process in detail and comparing it with the same process within MVD operations to determine the cost to MVD of providing a transaction through a third party versus the cost to provide the same transaction in an MVD office.

### GAPS IN CURRENT MODELS

Our objectives when studying the current Third Party Cost-Benefit models and literature were to:

- Obtain and review available Third Party Cost-Benefit models prepared for MVD.
- Conduct a search and review of available literature related to the costing of internally and externally performed MVD third-party transactions.
- Perform a gap analysis of the existing models by examining current best-practices.

Our analysis of current models and literature disclosed the following gaps and understandings:

- Full cost allocation is the common method used in performing privatization/outsourcing cost analyses.
- The complexity of transactions and services provided by MVD and Third Parties varies significantly.
- Several channels are used to deliver these services (Internet, mail, over the counter, and phone).
- A better means of identifying the benefits of the Third Party Program should be determined.
- Hard dollar cost savings should not be the sole determinant of value of the Third Party Program.

### INTERVIEW AND SURVEY RESULTS

The primary purpose of the interviews with MVD staff was to obtain a greater understanding of the business processes, transactions and resources employed to deliver MVD services by field offices and through the Third Party Program. Secondarily, we endeavored through our interviews to gain a better understanding of the issues associated with the previous cost models and how we could improve on the past models.

All interviewees agreed that attempting to do a study on comparing costs of the Third Party Program to the costs of MVD delivered services is a difficult and complex endeavor. Nearly half of those interviewed had reviewed the previous Third Party cost models that had been prepared by MVD. All interviewees that reviewed the past models did not completely agree with the way in which the transaction costs had been derived and had suggestions on ways to improve the models. A full cost approach for arriving at MVD Customer Service costs was almost unanimously stated as the preferred technique. Intuitively, most interviewees agreed that some type of classification scheme for transactions would make comparing transaction costs more meaningful. Although most did not suggest an approach, there was unanimous agreement of those familiar with previous modeling efforts that some type of classification by delivery channel would be appropriate. These channels would include mail, phone, Internet and over the counter transactions

### COST MODEL

Using lessons learned from the review of prior models, review of relevant literature, and interviews with key personnel, a Third Party Transaction Cost model was constructed, populated with relevant data, and analyzed. This Third Party Transaction Cost model is a series of three interlinked Microsoft Excel workbooks. Minimal Microsoft Excel knowledge is needed to use the model.

Utilizing the model and cost and transaction data for the most recent fiscal year for which data were available (July 1, 2001 – June 30, 2002); the table below shows a summary of costs per transaction by Channel: MVD Customer Service (over-the-counter), Renew-by-Mail (mail), traditional Third Party (third party offices), and Service Arizona (Internet).

Customer Service Renew by Mail Third Party Service Arizona						ice Arizona	
Cost Per	Cost Per Transaction Cost Per Transaction Cost Per Transaction Cost Per Transaction						
\$	12.80	\$	2.42	\$	11.74	\$	4.60

Cost Model Summary by Channel

General Assumptions:

- The Cost Model is based on a full cost allocation basis
- All indirect costs were included and allocated as appropriate
- The complexity of transactions and services provided by MVD and Third Parties varies significantly; however due to unavailability of data, we were unable to classify or segregate transactions by type or complexity.
- The costs indicated for Third Party reflect the state costs only and do not include individual third party office operating costs.
- Convenience fees that third parties charge their customers were not included.
- Revenues generated by MVD for Vehicle License Tax (VLT) and other transaction fees (registration fees, driver license fees, etc.) were not included in the analysis.
- Transaction types included registration renewals, titles, drivers licenses and vehicle inspections.

• Inquiry transactions such as motor vehicle registration (MVR) inquiries, fee to owner inquiries, address changes and "sold" notices were not included.

### **OBSERVATIONS**

Based on our analysis of the cost model, we are able to make the following observations:

- Total cost per transaction for MVD Customer Service is \$10.66 versus \$9.54 for Third Party (savings of over \$2.1 million per year).
- Direct Personnel Costs is the largest component of the MVD Customer Service cost at 56% of the total.
- The Third Party Fees, consisting of the Retainage of 2% of VLT, Transaction Fee Retainage, and Credit Card Reimbursement is the largest component of the Third Party cost at 62%.
- In addition to the cost savings of the Third Party Program, the Program provides a number of significant intangible benefits, such as:
  - Reduced wait times in existing Customer Service offices
  - More convenient hours and days of service availability
  - Reduced customer travel time and improved customer goodwill
  - Reduced need for new buildings, MVD staff, and equipment
  - Improved image of MVD responsiveness
  - Process improvement
  - Demonstrated success of e-government and private/public partnerships.

# 1. INTRODUCTION

### 1.1. BACKGROUND INFORMATION

The Arizona Department of Transportation (ADOT), Arizona Transportation Research Center (ATRC), selected consultants from Data Site Consortium, Inc. to perform a cost-benefit study of the Motor Vehicle Division's (MVD) Third Party Program.

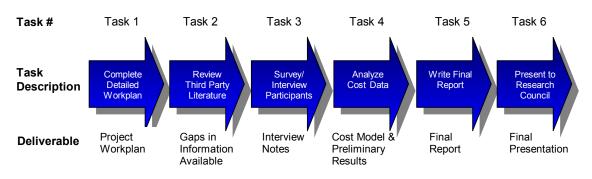
The Third Party Program is a tool of competitive government that allows MVD to improve service quality and enhance customer service and satisfaction. ATRC and MVD desired a study to quantify the benefits and cost savings of third parties in offloading work and expense from MVD. This is particularly important as the potential for third parties to grow increases, and continued emphasis is placed on budget management and reducing wait times in MVD offices.

### **1.2. PROJECT SCOPE**

The project scope included a comprehensive analysis of direct and indirect costs of transacting business in third parties versus MVD field offices, including long term and short term costs. The analysis includes examining the third party process in detail and comparing it with the same process within MVD operations to determine the cost to MVD of providing a transaction through a third party versus the cost to provide the same transaction in an MVD office.

### **1.3. PROJECT APPROACH**

The project approach included six major tasks with associated deliverables:



### Figure 1 – Project Approach

### 1.4. ORGANIZATION OF THE CONTENTS

This report is divided into an Executive Summary, four sections comprising the main body, and nine appendices. After this Introduction section, the report includes the following sections:

Section 2.0 – Gaps in Current Models Section 3.0 – Interview and Survey Results Section 4.0 – Cost Model

# 2. GAPS IN CURRENT MODELS

### 2.1. **OBJECTIVES**

The objectives in Task 2 of the Third Party Cost-Benefit Analysis study were to:

- Obtain and review previous Third Party Cost-Benefit models prepared for MVD
- Conduct a search and review of available literature related to the costing of internally and externally performed MVD third-party transactions
- Perform a gap analysis of the existing models with current best-practices.

The results of this analysis were utilized in subsequent project activities for the purposes of defining assumptions and developing the cost model.

### 2.2. TASKS PERFORMED

The following work was performed in Task 2:

- Interviewed key MVD stakeholders to gain an understanding of their areas of responsibility and expectations related to our study.
- Reviewed existing Third Party Cost-Benefit studies and examined the issues related to these studies through discussions with the authors and stakeholders.
- Performed extensive literature searches with the assistance of the Arizona Transportation Research Center.
- Conducted Internet searches for relevant information.
- Obtained and reviewed information from leading think-tanks on government privatization and outsourcing (Reason Public Policy Institute and Cascade Policy Institute).
- Reviewed relevant information available on state government websites.
- Analyzed previous studies and models with information learned through literature search to define gaps in the existing models.
- Analyzed the relevant literature to determine impact on the remainder of the project.

### 2.3. GAPS IN CURRENT MODELS

Three previous efforts to model MVD and Third Party costs have been developed for the Motor Vehicle Division in the last several years. We reviewed each of the following models:

- 1. Transaction Costs Customer Service and Third Party, by Ruth Halikowski, March 7, 2000
- Transaction Costs Customer Service and Third Party, by Ruth Halikowski, January 24, 2001
- 3. *A Cost Model to Compare the Costs of Traditional Motor Vehicle Transaction Delivery to an e-Government Delivery System*, a report to the American Association of Motor

Vehicle Administrators (AAMVA) Electronic Government Working Group by Craig Stender, August 22, 2001.

Based on our analysis of these models in comparison with best practices derived from the literature review, the following gaps were identified:

- Models 1 & 2 included only Direct Costs and Operating Costs (referred to as "the first layer of indirect costs"). The first layer of indirect costs consists of those costs occurring outside of Customer Service and the Third Party Program, but essential to completing the transactions. The first layer included positions and costs related to the warehouse, forms printing, license plates and warehouse costs, and positions in other related MVD programs.
- Models 1 & 2 did not include Indirect Costs for:
  - MVD Administration
    - MVD Management
    - MVD Centralized Administrative Support
  - ADOT Administration
    - Arizona Transportation Research Center
    - Audit and Analysis
    - Contracts and Specifications
    - Equipment Services
    - Executive Staff
    - Financial Management Services (Accounting, Payroll, Cash Management, Financial Planning, Risk Management)
    - Human Resources
    - Information Technology, Telecommunications
    - Training Resources
    - Procurement
  - State of Arizona Administration
    - Department of Administration
    - Attorney General
    - Auditor General
    - Government Information Technology Agency
    - Governor's Office
    - Personnel Board
    - Retirement System
- In Model 1, rent costs were included for leased facilities but depreciation was not included for state-owned buildings. In Model 2, building depreciation was included.
- No attempts were made to classify or segregate transactions by type or complexity.
- Models 1 & 2 did not include a quantification or discussion of benefits of the Third Party program.

- Model 3 focused solely on comparing e-government (Electronic Service Delivery or Service Arizona) with traditional Over-the-Counter (OTC) transactions.
- Model 3, while including indirect costs for Information Technology, also did not include other types of indirect costs.
- Attempts were made in Model 3 to quantify Customer Costs for both OTC and egovernment transactions.
- While no attempt was made to quantify benefits, consideration of intangible benefits of e-government transactions was included.

### 2.4. PROJECT IMPACT

Our analysis of the gaps in the current models combined with the results of our literature review disclosed the following:

- Full cost allocation is the common method used in performing privatization/outsourcing cost analyses. Accordingly, our model should include full cost allocation, including allocation of appropriate indirect costs.
- The complexity of transactions and services provided by MVD and Third Parties varies significantly. In addition, there are several channels used to deliver these services (Internet, mail, OTC, phone). A means of categorizing transactions and services for cost comparison purposes might be appropriate.
- A better means of identifying the benefits of the Third Party Program should be determined. Additionally, the impact to MVD and the public of eliminating the Third Party Program should be determined.
- Hard dollar cost savings should not be the sole determinant of value of the Third Party Program.

### 2.5. RESULTS OF LITERATURE SEARCH

An extensive literature review was performed. Although there is not a significant body of work directly related to costs and benefits of MVD third party programs, an extensive amount of information was found on privatization of state government services and the costs/ benefits associated with these programs.

Rather than listing a bibliography of the numerous documents reviewed, abstracts of only the literature that we feel is highly relevant to our study is included below. All documents listed were considered in the development of the cost/benefit models and recommendations in subsequent phases of the project. In addition to each document's reference information, a brief description of its relevance to our study is provided.

AAMVA's Model Privatization Program – A Guide to Outsourcing Government, June 1998 A summary of the issues associated with outsourcing of government services is presented. Of particular relevance is Appendix B – Summary of Privatization Survey, where each state's outsourced motor vehicle services are described. A description of related legislation and rules, impacts and effectiveness of the programs, costs, and the pros & cons of privatization are discussed. See Appendix B for a breakdown of state outsourcing functions and major issues identified.

### Annual Report on Privatization, Reason Public Policy Institute, 1997

A common public sector mistake is failing to determine the true fully allocated costs of in-house services. This shortcoming will cause unfair cost comparisons with outsourcing alternatives. The authors describe a model where direct plus indirect internal costs should be compared with the costs of contracting-out plus contract monitoring costs when making outsourcing decisions.

The State of Virginia has developed the COMPETE PC-based cost comparison program for determining the cost of internal delivery of services. The model uses fully allocated costs and the activity cost of service units of output in state functions. See Appendix A for a synopsis of this model.

### Annual Report on Privatization, Reason Public Policy Institute, 1998

There are no real guidelines that lay out how governments should conduct fair public/private competition. Objective third parties should be used to determine the true cost of governmental services. These costs should include depreciation, an overhead allocation based on usage, an interest expense allocation and the cost of outside consultants.

# *Competitive Government Handbook,* State of Arizona, Office for Excellence in Government (OEG), September 2001, v4.

This document contains information on developing a full cost model for in-house costs, and a guide for comparing in-house costs to the cost of outsourcing. Several cost models and decision making tools are provided. See Appendix A for a synopsis of this model.

# A Framework for Evaluating the Government Contracting-Out Decision with an Application to Information Technology, Steven Globerman and Aiden R. Vining, Public Administration Review, November/December 1996, Vol. 56, No. 6.

The premise of this article is that outsourcing should only be employed when society is made better by doing so. Minimizing government cost is only one factor to consider. A more important consideration is the cost to citizens. The authors contend that outsourcing does lower overall production costs due to competition and efficiency gains.

# How to Compare Costs Between In-House and Contracted Services, Lawrence Martin, Reason Public Policy Institute, March 1993, #4.

A common mistake in determining internal costs of governmental services is the failure to include interest, pension, facilities and equipment as direct costs related to the services. Cost savings from outsourcing should be the difference of avoidable costs less contractor costs. A general rule of thumb is to apply a 10% to 20% administrative cost to the cost of the outsourcing

contract. The Office of Management and Budget (OMB) has a staffing formula which can also be used to determine the cost of outsourcing administration. Finally, the cost of contracting should be reduced by the net new revenue to the state that is attributable to the outsourcing contract.

*The Long Term Impact and Cost Effectiveness of Outsourcing,* J. Lynn Johnson and Louis D. Ponthieu, Transportation Research Center, University of North Texas, December 1999. The authors conclude via survey data that the long term cost savings to state governments associated with outsourcing have generally been small. When indirect costs related to the governmental programs are considered, significant cost savings can result over time.

Partial outsourcing is a viable alternative; therefore outsourcing decisions should not be polarized on an all or nothing basis. Functions that have been outsourced do not tend to be brought back in-house over time. Outsourcing tends to increase over time. Finally, it is difficult to do cost/benefit analyses related to outsourcing due to the problems identifying internal & external costs, tangible & intangible costs and discretionary & non-discretionary costs.

*Private Practices: A Review of Privatization in State Government,* Keon S. Chi and Cindy Jasper, The Council of State Governments, 1997.

Based on survey data, the authors concluded that cost savings is the primary reason for a state's decision to outsource. Although the authors conclude that the majority of states could not estimate the cost savings resulting from privatization. Because of the difficulty in determining the true costs of outsourcing to state government, state policy makers should develop analysis formats for agencies to use. Of those states that provided a percentage cost savings, most indicated less than a 5% savings to state government.

### 2.6. ANALYSIS OF RELEVANT COST MODELS

Model Name: State of Arizona Competitive Government Program Handbook

**Date:** June, 2001

### **Relevance to the Study:**

The Competitive Government Program, created in 1996 by the Arizona Legislature, was formed to foster fair public-private competition for the purpose of better meeting customer needs, fostering efficiency and reducing costs. The cost models presented are very applicable to this study because they factor in the accounting rules and policies of the State of Arizona and are tailored for state agency use.

#### **Description of the Model's Pertinent Contents:**

Two cost models are presented: the Full Cost Model and the Mini-Model. We will focus our analysis on the Full Cost Model. The Mini-Model uses a standard rate of 16% of direct costs to arrive at an indirect cost allocation for internal services and is more limited in scope.

The process described for building the internal cost model begins with collecting relevant direct costs for the function under review. The next step is to determine the indirect costs attributed to

the function. The model emphasizes the distinguishing of avoidable vs. unavoidable costs. Only avoidable costs are relevant for the model.

The full costing method described in the text does not rely on a specific method of allocating indirect costs to the internal function. Various allocation methods are suggested, leaving it to the analyst to select the most applicable allocation method for each direct cost category. For instance, payroll costs could be allocated based on the number of full time equivalent employees (FTEs) in the target function, whereas Accounts Payable costs could be allocated by the number of warrants issued.

The model does a good job of describing the difference between agency and statewide indirect costs and how they should be treated in the model. The key point is that both are important factors to include in deriving the full cost of an agency function. The Department of Administration provides a statewide indirect cost allocation percentage for each agency.

The model provides spreadsheets for all cost categories. It provides references to the State of Arizona Accounting Manual for determining useful life of capital assets for the purpose of computing depreciation. All assets and improvements with a cost of more than \$5,000 are considered capitalized costs for the model.

After all internal costs are collected, costs related to outsourcing are then identified. Many of the costs are not relevant to this study, such as the various types of one-time conversion costs that would be incurred with the initial outsourcing of an internal function. These include personnel redeployment, asset retirement, lease cancellations and real estate sales. Any new revenue generated through the outsourcing is shown as a reduction in outsourcing costs. Revenue could be in the form of additional fees due to the state, net gain on asset sales, as well as the sales tax collected by the state from the outsourcer.

A rule of thumb provided for evaluating the internal and outsourced costs for a given function is that if the cost savings from outsourcing is not at least 10%, then outsourcing should not be done.

In all, the model provides a very thorough methodology and tool for performing an evaluation of costs for the purpose of outsourcing an existing state function. No attempt is made at quantifying so called 'soft' benefits of outsourcing, such as customer convenience and time savings, productivity gains, and quality improvements.

For more information and to obtain a downloadable model, go to: <u>www.governor.state.az.us/excellence</u> or contact the State of Arizona Office for Excellence in Government at (602) 543-7546.

Model Name: Commonwealth of Virginia Cost Comparison Program (COMPETE)

Date: May, 1996

### **Relevance to the Study:**

The Cost Comparison Program ("COMPETE") is a fully automated, personal computer (PC)operated decision-making tool used by the State of Virginia for the purpose of evaluating insourcing/outsourcing alternatives by assuring a level playing field.

### **Description of the Model's Pertinent Contents:**

"COMPETE" builds several key pieces of information for evaluating in-sourcing/outsourcing alternatives, including:

- The fully allocated cost of a state function or activity
- The activity cost of service units of output in a state function
- A level playing field cost comparison of operating a function in-house vs. the private sector

The fully allocated cost of the state function is then compared to the State cost to contract with private firms. This information allows an agency to accurately compare alternative proposals, with an emphasis on the State's fully allocated costs, and to set benchmarks for performing the service and measuring the performance of a contract.

As with the Arizona Competitive Government model, COMPETE is based on a series of cost spreadsheets that are completed by the analyst. A full cost model is developed.

The model provides state workers with very specific instructions as to where to get the cost data required to complete the spreadsheets.

The model describes two types of overhead or indirect costs (operations / general and administrative) incurred in support of the function or activity which are not 100 percent attributable to the function or activity. Operations overhead is the cost incurred in support of the function by the supervisory workforce **one level** above the studied function. General and Administrative overhead are internal agency support costs, other than operations overhead, incurred in the support of the studied function. The model does not apply an allocation from other state agencies that indirectly support the agency and function. General and Administrative overhead costs are automatically allocated to the studied function on a FTE ratio basis.

The model attempts to develop activity based costs for core activities and determine the annual cost per service unit of output. Although not directly related to the in-sourcing/outsourcing decision, this data can be used to develop a more efficient and competitive internal organization.

Inputs to the activity based costing models include:

- Major performance activities of the function
- Percentage of time spent on each major activity
- Number of service units of each major performance activity (units of output).

The model does not provide guidance as to how to account for and model outsourcing costs for comparison purposes. As with the Arizona model, no attempt is made to address the 'soft' benefits of outsourcing.

For more information and to download the model, go to:

http://www.vipnet.org/ccc/compete/ or contact the State of Virginia Commonwealth Competition Council at (804) 786-0240.

### 2.7. SUMMARY OF JURISDICTIONS OUTSOURCING PROGRAMS

Below are the responses of forty-nine jurisdictions in the United States and Canada responding to all or part of a survey developed by the AAMVA Privatization Working Group. The following tables represent our interpretation and summarization of a relevant subset of the AAMVA survey results.

Function	Number of Jurisdictions	Planned
Drivers Licensing	18 outsource all or part	
New Issuance	13	1
Renewals	18	1
Duplicates	15	1
Transfers	11	
Skills Testing	23 outsource all or part	
Non-CMV	10	
CMV	21	1
Motorcycle	13	
Written Testing	·	
Non-CDL	9	1
Motorcycle	7	
Vision Testing	9	
<b>Registration Functions</b>	26 outsource all or part	
New	26	1
Renewals	25	2
Duplicates	18	1
Insurance Verification	7	1
Emission Testing	13	
Title Verification	8	1
Safety Inspections	6	
Motor Carrier Functions	6 outsource all or part	
IRP	3	2
IFTA	6	1
Single State Registration	0	
Oversize Permitting	1	1
Safety	1	2
General Functions	12 outsource all or part	
Telephone	4	
Correspondence	2	1
Driver Improvement	11	
Defensive Driving	12	
Accident Records	3	

#### Table 1 – Jurisdictions Outsourcing MVD Functions

Source: AAMVA Model Privatization Program, Privatization Survey, June, 1998.

Result	Drivers Licensing	Motor Vehicle	Motor Carrier	General Functions
Cost Savings	12	14	4	6
Increased Customer Service	22	15	7	6
Improved Employee Moral	2	0	1	1
Cost Avoidance	11	15	4	4
Decrease in Wait Times	19	9	3	2
Enhanced Public Perception	14	8	5	4
Increase in Revenue	0	0	0	0
Better Customer Satisfaction	15	8	6	5
Reduced Backlogs	13	8	4	6

Table 2 – Results of Jurisdictions Outsourcing MVD Functions

Source: AAMVA Model Privatization Program, Privatization Survey, June, 1998

Thirty five jurisdictions reported that their outsourcing programs are working well while three reported that their programs were not working well, with two jurisdictions reporting mixed results.

The complete AAMVA survey can be found on the web at: http://www.aamva.com/Documents/egvPrivatization-june98.pdf

# 3. INTERVIEW AND SURVEY RESULTS

### **3.1. OBJECTIVES**

The objectives of Task 3 of the Third Party Cost-Benefit Analysis were to:

- Conduct a series of interviews with appropriate MVD and outside individuals to gather understanding of their areas of responsibility and obtain from them information pertinent to the study.
- Continue to collect and analyze data and research that will be used in the building of the cost benefit models.

The results of this task were used in subsequent phases of the project for the purpose of defining assumptions and developing the cost model.

### **3.2. TASKS PERFORMED**

The following work was performed in Task 3:

- Identified interviewees that possessed an appropriate knowledge of the issues and functions related to our study.
- Developed a series of interview questions
- Interviewed key individuals to gain an understanding of their areas of responsibility and expectations related to our study, and obtain from them information pertinent to the study.
- Obtained related organization information, policies & procedures and preliminary transaction volume and cost data for MVD Customer Service and the Third Party functions.
- Continued to obtain and review information from leading think-tanks on government privatization and outsourcing (Reason Public Policy Institute and Cascade Policy Institute).
- Built a set of working papers for use in the model development.

### **3.3. SUMMARY OF INTERVIEW RESULTS**

The primary purpose of the interviews with MVD staff was to obtain a greater understanding of the business processes, transactions and resources employed to deliver MVD services by field offices and through the Third Party Program. Secondarily, we endeavored through our interviews to gain a better understanding of the issues associated with the previous cost models and how we could improve on the past models. Finally, we used the interviewees as sounding boards to corroborate our ideas and proposed methods under consideration for the construction of the Third Party Cost – Benefit Model. We feel that interviews were valuable and all objectives for the interview process were met.

All interviewees agreed that attempting to do a study on comparing costs of the Third Party Program to the costs of MVD delivered services is a difficult and complex endeavor. Most interviewees readily recognized the political ramifications of such a study and the differences of opinion related to the program both inside and outside of MVD. While all concurred that the Third Party Program provided a high degree of benefits to the customers of the State of Arizona, many were unsure that the program provided a significant cost savings to MVD.

Nearly half of those interviewed had reviewed the previous Third Party cost models that had been prepared by MVD. All interviewees that reviewed the past models did not completely agree with the way in which the transaction costs had been derived and had suggestions on ways to improve the models. Most agreed that indirect costs should be applied to the cost of field office transactions and that some form of transaction classification should be employed to make the model more meaningful. One interviewee preferred an incremental or marginal cost method where indirect costs are not considered.

Specifically, a full cost approach for arriving at MVD Customer Service costs was almost unanimously stated as the preferred technique. Most recognized that prior MVD prepared models included only Direct Costs and Operating Costs (referred to as "the first layer of indirect costs"). The first layer of indirect costs consisted of those costs occurring outside of Customer Service and the Third Party Program, but essential to completing the transactions. The first layer included positions and costs related to the warehouse, forms printing, license plates and warehouse costs, and positions in other related MVD programs. The prior models did not include any Indirect Costs for MVD Administration, ADOT Administration including Human Resources, Information Technology, Training, Procurement, etc. Finally, State of Arizona Administration costs were excluded from prior modeling efforts. According to the interviewees, these costs should be included in the model.

Intuitively, most interviewees agreed that some type of classification scheme for transactions would make comparing transaction costs more meaningful. Although most did not suggest an approach, there was unanimous agreement of those familiar with previous modeling efforts that some type of classification by delivery channel would be appropriate. These channels would include, mail, phone, Internet and over the counter transactions. Identifying the costs for each channel would provide valuable information in deciding which delivery techniques should be expanded in the future. To classify transactions by complexity or time to complete was not practical in the minds of most interviewees. Finally, interviewees mostly agreed that an 'apples to apples' comparison should be performed. Only MVD Customer Service costs for transactions that are being performed by a Third Party mechanism should be considered. There are numerous transactions performed by MVD that are not available to Third Parties.

Another valuable issue emerged from the interview process related to how best to represent the benefit of the Third Party program. Several interviewees suggested that the study show the effects of eliminating the Third Party program in terms of the required addition of MVD Customer Service offices and staff. Alternatively, if additional offices were not added, what effect on existing MVD office customer wait times would result from the scaling back or elimination of the Third Party program.

Finally, interviewees recognized that the Quality Assurance function within the Third Party program provides a significant value added benefit that is not present in the Customer Service offices. In this function, approximately eight staff members perform a sampling review of Third Party transactions on a daily basis and assist in correcting errant transactions. Detailed statistics of Third Party office transaction quality are maintained, identifying quality trends and problems in Third Party offices where remedial action might be required. The added benefit of the Quality Assurance function though, cannot readily be quantified because Customer Service offices do not keep quality related statistics. Several interviewees suggested that this function be removed from the Third Party costs total, since a similar function was not present for internal Customer Service transactions, assuring an 'apples to apples' comparison between the two programs.

All interviewees were supportive of the project and agreed to provide any information necessary for the development of the model.

# 4. COST MODEL

### 4.1. **OBJECTIVES**

Using lessons learned from review of prior models, review of relevant literature, and interviews with key personnel, a Third Party Transaction Cost model was constructed, populated with relevant data, and analyzed. The model was not only to be used to evaluate current data, but also to be a tool that could be used in the future. In addition, the model could be used to perform "What If" analyses.

### 4.2. STRUCTURE OF THE MODEL

The Third Party Transaction Cost model is a series of three interlinked Microsoft Excel workbooks. Microsoft Excel 97 or later (Excel 97, Excel 2000, Excel 2002) may be used to access and update the model. Minimal Microsoft Excel knowledge is needed to use the model. Modifying the model requires an intermediate level of understanding of Microsoft Excel, including formulas and worksheet linking.

The three Excel files or workbooks are:

- 1. **CostModelSummary.xls** contains the overall summary, summary by channel (Customer Service, Renew-by-Mail, traditional Third Party, and Service Arizona), and detailed calculations by channel.
- 2. **MVDCosts.xls** contains all of the detailed costs, allocations, and transactions that apply to MVD Customer Service.
- 3. **ThirdPartyCosts.xls** contains all of the detailed costs, allocations, and transactions that apply to Third Parties, including Service Arizona.

The two detailed Excel files or workbooks for MVD Customer Service Costs and Third Party Costs contain multiple detailed worksheets or spreadsheets. The detailed worksheets are linked into a Summary worksheet that is then linked into the overall Cost Model Summary. Thus, any changes in a detailed cell in the model are automatically recalculated and displayed in the Summary worksheet for that model as well as the overall Cost Model Summary.

Instructions for using this model are included in Appendix D, while exact the formulas used in each worksheet are included in Appendices E, F, and G for the Cost Model Summary, MVD Cost Model, and Third Party Cost model respectively.

Cost and transaction data in the model are for the most recent fiscal year data available, the ADOT Fiscal Year 2002 (for the period July 1, 2001 – June 30, 2002).

### 4.3. COST MODEL SUMMARY

The Cost Model Summary worksheet provides an overall summary comparison of MVD Customer Service costs and Third Party costs at total amounts and per transaction amounts by cost type.

Cost Type		MVD Customer Service				Third Party			
		Y2002 Total	1	Cost Per Transaction		FY2002 Total		Cost Per ansaction	
Direct Personnel Costs									
Customer Service Personnel	\$	29,579,207	\$	5.56	\$	1,794,035	\$	0.94	
Direct Support Personnel	\$	2,482,167	\$	0.47	\$	257,189	\$	0.13	
Total Direct Personnel Costs	\$	32,061,374	\$	6.02	\$	2,051,224	\$	1.07	
Operating Costs									
Operating Costs	\$	9,416,391	\$	1.77	\$	1,937,518	\$	1.01	
Technology Costs									
Information Technology Costs	\$	2,950,362	\$	0.55	\$	1,044,921	\$	0.55	
Telecommunications Costs	\$	1,460,780	\$	0.27	\$	524,581	\$	0.27	
Total Technology Costs	\$	4,411,142	\$	0.83	\$	1,569,502	\$	0.82	
Indirect Costs									
MVD Indirect Costs	\$	1,824,832	\$	0.34	\$	655,315	\$	0.34	
ADOT Indirect Costs	\$	4,428,981	\$	0.83	\$	252,765	\$	0.13	
State Indirect Costs	\$	250,110	\$	0.05	\$	14,274	\$	0.01	
Total Indirect Costs	\$	6,503,922	\$	1.22	\$	922,354	\$	0.48	
Building & Equipment Costs									
Building Costs	\$	2,074,994	\$	0.39	\$	118,421	\$	0.06	
Equipment Costs	\$	1,868,629	\$	0.35	\$	106,644	\$	0.06	
Total Building & Equipment Costs	\$	3,943,623	\$	0.74	\$	225,065	\$	0.12	
Other Costs									
Other Costs	\$	384,098	\$	0.07	\$	137,933	\$	0.07	
Third-Party Fees									
Third-Party Fees		N/A		N/A	\$	11,382,322	\$	5.96	
Total Costs	\$	56,720,549	\$	10.66	\$	18,225,918	\$	9.54	
Total Cost Savings Using Third Parties					\$	2,142,993	\$	1.12	

### Table 3 – Cost Model Summary

### 4.4. SUMMARY BY CHANNEL

The Summary by Channel worksheet provides a summary of costs per transaction by Channel - MVD Customer Service (over-the-counter), Renew-by-Mail (mail), traditional Third Party (third party offices), and Service Arizona (Internet).

Custor	mer Service	Renew	w by Mail	Т	hird Party	Service Arizona		
Cost Per Transaction Cost Per Transaction Cost Per Transaction Cost Per Transaction								
\$	12.80	\$	2.42	\$	11.74	\$	4.60	

### Table 4 – Cost Model Summary by Channel

Channel Definitions:

- Customer Service, sometimes referred to as 'Over-the-Counter' transactions, represent those transactions that take place at MVD Customer Service offices.
- Renew by Mail is a specialty unit within MVD that processes registration renewals mailed to MVD by customers. In addition to processing registration renewals mailed to MVD, the Renew by Mail unit also handles the mailing of completed registrations and tabs that were initiated over the internet or by phone for Service Arizona. The processing costs related to the Service Arizona transactions are depicted as Service Arizona costs in the cost models.
- Third Party represents the transactions performed at the traditional third party offices throughout the state.
- Service Arizona is a unique subset of third party transactions. These transactions include a wide array of vehicle and drivers transactions accessible to customers over the Internet, as well as vehicle registration renewal transactions processed through an Interactive Voice Response (IVR) system.

### 4.5. MVD CUSTOMER SERVICE COST MODEL

The MVD Customer Service Summary worksheet summarizes the total costs by category from the detailed worksheets listed below.

Cost Type	FY	/2002 Total	Cost Per Transaction
Direct Personnel Costs			
Total Customer Service Personnel	\$	29,579,207	\$ 5.56
Total Direct Support Personnel	\$	2,482,167	\$ 0.47
Total Direct Personnel Costs	\$	32,061,374	\$ 6.02
Operating Costs			
Total Operating Costs	\$	9,416,391	\$ 1.77
Technology Costs			
Total Information Technology Costs	\$	2,950,362	\$ 0.55
Total Telecommunications Costs	\$	1,460,780	\$ 0.27
Total Technology Costs	\$	4,411,142	\$ 0.83
Indirect Costs			
Total MVD Indirect Costs	\$	1,824,832	\$ 0.34
Total ADOT Indirect Costs	\$	4,428,981	\$ 0.83
Total State Indirect Costs	\$	250,110	\$ 0.05
Total Indirect Costs	\$	6,503,922	\$ 1.22
Building & Equipment Costs			
Total Building Costs	\$	2,074,994	\$ 0.39
Total Equipment Costs	\$	1,868,629	\$ 0.35
Total Building & Equipment Costs	\$	3,943,623	\$ 0.74
Other Costs			
Total Other Costs	\$	384,098	\$ 0.07
Total MVD Customer Service Costs	\$	56,720,549	\$ 10.66

### Table 5 – MVD Customer Service - Summary

The Direct Personnel Costs worksheet includes direct Customer Service costs, other direct support personnel costs and other personnel costs.

Cost Type/Function	FTEs	Total FY2002 Salary Costs	Allocation Basis	Allocation — Percentage	Allocated to ner Service
Customer Service Personnel					
Customer Service Field Office Personnel	869	\$ 22,653,454	Full	100%	\$ 22,653,454
Customer Service Headquarters Personnel	7	\$ 262,908	Full	100%	\$ 262,908
ERE on Customer Service Personnel		\$ 6,662,845	Full	100%	\$ 6,662,845
Total Customer Service Personnel	876	\$ 29,579,207		100%	\$ 29,579,207
Direct Support Personnel					
Abandoned Vehicle - ISS	2.0	\$ 40,170	Full	100%	\$ 40,170
Title Production - ISS	0.5	\$ 10,901	Full	100%	\$ 10,901
Film Research - ISS	8.0	\$ 163,008	Full	100%	\$ 163,008
Mandatory Insurance - ISS	2.5	\$ 55,878	Full	100%	\$ 55,878
Criminal Traffic - ISS	2.0	\$ 40,752	Full	100%	\$ 40,752
Microfilm - ISS	4.0	\$ 81,504	Full	100%	\$ 81,504
Civic Traffic - ISS	2.0	\$ 40,752	Full	100%	\$ 40,752
Medical Review - ISS	1.0	\$ 25,590	Full	100%	\$ 25,590
Training - ISS	14.0	\$ 491,008	Full	100%	\$ 491,008
Technical Support - ISS	20.0	\$ 492,860	Full	100%	\$ 492,860
Out-of-State Desk - ISS	3.0	\$ 78,615	Full	100%	\$ 78,615
Renew-by-Mail - ISS	1.0	\$ 23,111	Full	100%	\$ 23,111
Audit - TSG	1.0	\$ 38,654	Full	100%	\$ 38,654
Warehouse - CSS	5.3	\$ 132,182	Full	100%	\$ 132,182
Plate Positions - CSS	0.9	\$ 30,982	Full	100%	\$ 30,982
Dishonored checks - CGP	2.8	\$ 72,677	Full	100%	\$ 72,677
Motor Vehicle Enforcement Services	4.0	\$ 104,404	Full	100%	\$ 104,404
ERE on Direct Support Personnel		\$ 559,119	Full	100%	\$ 559,119
Total Direct Support Personnel	74.0	\$ 2,482,167		100%	\$ 2,482,167
Other Personnel Costs					
Temporary Personnel		\$ 248,414	Customer Service Headcount/Total MVD Headcount	58%	\$ 144,665
Education & Training		\$ 182,922	Customer Service Headcount/Total MVD Headcount	58%	\$ 106,525
Travel Expenses		\$ 395,608	Customer Service Headcount/Total MVD Headcount	58%	\$ 230,383
Other		\$ 421,240	Customer Service Headcount/Total MVD Headcount	58%	\$ 245,310
Total Other Personnel Costs		\$ 1,248,184		100%	\$ 726,884
Fotal Direct Personnel Costs	950	\$ 33,309,558			\$ 32,788,257

Table 6 – MVD Customer Service Cost Model – Direct Personnel Costs

The Operating Costs worksheet contains primary operating costs such as plates & tags, driver license credentials, printing, postage, and supplies.

Cost Type/Function	Total F	Y2002 Costs	Allocation Basis	Allocation Percentage	Total Allocated to (	Customer Service
Operating Costs						
Plates & Tabs	\$	2,295,285	Registrations	84%	\$	1,924,848
Drivers License Credentials (DDL)	\$	2,400,000	DL Transactions	99%	\$	2,377,989
Printing	\$	1,393,761	Transactions	74%	\$	1,025,495
Postage	\$	1,300,000	Already Allocated	100%	\$	1,300,000
Supplies	\$	3,789,277	Transactions	74%	\$	2,788,058
Total Operating Costs	\$	11,178,323			\$	9,416,391

Table 7 – MVD Customer Service Cost Model – Operating Costs

The Technology Costs worksheet includes programming costs, information technology (IT) equipment & software depreciation and purchases, external telecommunications costs, and telecommunications depreciation and purchases.

Cost Type/Function	Total F	Y2002 Costs	Allocation Basis	Allocation Percentage	Total Allocated to Customer Service	
Information Technology Costs						
Programming	\$	3,522,535	Total Customer Service Transactions /Grand Total Transactions	74%	\$ 2,591,796	
IT Equipment Depreciation (Capitalized Equipment)	\$	159,219	Customer Service Drivers License Transactions/Grand Total Drivers License Transactions	99%	\$ 157,759	
IT Equipment Purchases (Non-Capitalized)	\$	248,140	Total Customer Service Transactions /Grand Total Transactions	74%	\$ 182,575	
Software Depreciation (Capitalized)	\$	6,395	Total Customer Service Transactions /Grand Total Transactions	74%	\$ 4,705	
Software Purchases (Non-Capitalized)	\$	18,385	Total Customer Service Transactions /Grand Total Transactions	74%	\$ 13,527	
Total Information Technology Costs	\$	3,954,674			\$ 2,950,362	
Telecommunications Costs						
External Telecommunications	\$	1,842,956	Total Customer Service Transactions /Grand Total Transactions	74%	\$ 1,356,002	
Telecommunications Equipment Depreciation (Capitalized Equipment)	\$	115,110	Total Customer Service Transactions /Grand Total Transactions	74%	\$ 84,695	
Telecommunications Equipment Purchases (Non-Capitalized)	\$	27,294	Total Customer Service Transactions /Grand Total Transactions	74%	\$ 20,082	
Total Telecommunications Costs	\$	1,985,360			\$ 1,460,780	
Total Technology Costs	\$	5,940,034			\$ 4,411,142	

### Table 8 – MVD Customer Service Cost Model – Technology Costs

The Building & Equipment Costs worksheet includes building rent & depreciation, maintenance, utilities, and equipment purchases, depreciation, and maintenance.

Cost Type	FY2002 Total	Allocation Basis	Allocation Percentage	Total Allocated to Customer Service
Building Costs				
Building Depreciation	, ,	Customer Service Headcount/Total MVD Headcount (includes additional depr for added bldgs in FY2002	58%	\$ 655,561
Building Rent	\$ 414,416	Headcount	58%	\$ 241,337
Janitorial & Building Repair/Maintenance	\$ 980,574	Customer Service Headcount/Total MVD Headcount	58%	\$ 571,040
Landscaping	\$ 55,001	Customer Service Headcount/Total MVD Headcount	58%	\$ 32,030
Utilities	\$ 987,420	Customer Service Headcount/Total MVD Headcount	58%	\$ 575,027
Total Building Costs	\$ 3,563,121			\$ 2,074,994
Equipment Costs				
Equipment Lease/Rental	\$ 1,367,805	Customer Service Headcount/Total MVD Headcount	58%	\$ 796,545
Equipment Depreciation (Capitalized Equipment)	\$ 33,154	Customer Service Headcount/Total MVD	58%	\$ 19,307
Equipment Purchases (Non-Capital)	\$ 765,956	Customer Service Headcount/Total MVD Headcount	58%	\$ 446,057
Equipment Repair & Maintenance	\$ 1,041,841	Customer Service Headcount/Total MVD Headcount	58%	\$ 606,719
Total Equipment Costs	\$ 3,208,757	,		\$ 1,868,629
Total Building & Equipment Costs	\$ 6,771,877			\$ 3,943,623

 Table 9 – MVD Customer Service Cost Model – Building & Equipment Costs

The Indirect Costs worksheet includes indirect costs for functions that provide support to MVD Customer Service including at the central MVD, ADOT, and State of Arizona levels.

Cost Type/Function	Total FY2002 Costs	Allocation Basis	Allocation Percentage	Total Allocated to Customer Service
MVD Indirect Costs				
MVD Management	\$ 685,510	Total Customer Service Transactions/Grand Total Transactions	74%	\$ 504,382
MVD Centralized Administrative Support	\$ 1,311,709	Total Customer Service Transactions/Grand Total Transactions	74%	\$ 965,124
ERE on Above Personnel	\$ 482,928	Total Customer Service Transactions/Grand Total Transactions	74%	\$ 355,326
Total MVD Indirect Costs	\$,480,147			\$ 1,824,832
ADOT Indirect Costs				
Audit & Analysis	\$ 1,698,900	Customer Service Headcount/Total ADOT Headcount	20%	\$ 346,429
Executive Staff	\$ 605,300	Customer Service Headcount/Total ADOT Headcount	20%	\$ 123,429
Financial Management Services	\$ 17,030,500	Customer Service Headcount/Total ADOT Headcount	20%	\$ 3,472,749
Human Resources	\$ 893,600	Customer Service Headcount/Total ADOT Headcount	20%	\$ 182,217
Procurement	\$ 1,060,900	Customer Service Headcount/Total ADOT Headcount	20%	\$ 216,332
Training Resources	\$ 430,700	Customer Service Headcount/Total ADOT Headcount	20%	\$ 87,826
Total ADOT Indirect Costs	\$ 21,719,900			\$ 4,428,981
State Indirect Costs				
DOA - General Accounting Office	\$ 332,551	Customer Service Headcount/Total ADOT Headcount	20%	\$ 67,812
DOA - State Procurement Office	\$ 47,773	Customer Service Headcount/Total ADOT Headcount	20%	\$ 9,742
DOA - Risk Management Division	\$ 75,083	Customer Service Headcount/Total ADOT Headcount	20%	\$ 15,310
DOA - Mail Room		Customer Service Headcount/Total ADOT Headcount	20%	\$ -
Attorney General	\$ 203,733	Customer Service Headcount/Total ADOT Headcount	20%	\$ 41,544
State Treasurer	\$ 29,461	Customer Service Headcount/Total ADOT Headcount	20%	\$ 6,007
Public Records - Legislature	\$ 90,150	Customer Service Headcount/Total ADOT Headcount	20%	\$ 18,383
Governor's Office - Office of Strategic Planning & Budgeting	\$ 59,272	Customer Service Headcount/Total ADOT Headcount	20%	\$ 12,086
Governor's Office - Office of Equal Opportunity	\$ 45,718	Customer Service Headcount/Total ADOT Headcount	20%	\$ 9,323
Governor's Office - Office for Excellence in Government	\$ 282,686	Customer Service Headcount/Total ADOT Headcount	20%	\$ 57,643
DOA - Occupancy	\$ 60,123	Customer Service Headcount/Total ADOT Headcount	20%	\$ 12,260
Total State Indirect Costs	\$ 1,226,550			\$ 250,110
Fotal Indirect Costs	\$ 25,426,597			\$ 6,503,922

## Table 10 – MVD Customer Service Cost Model – Indirect Costs

The Other Costs worksheet includes other costs, such as advertising, insurance, interest, and miscellaneous costs.

Cost Type	FY2002 Total	Allocation Basis	Allocation Percentage	Total Allocated to Customer Service
Other Costs				
Advertising	\$ 223,010	I otal Transactions	74%	\$ 166,151
Insurance	\$ 7,324	Total Customer Service Transactions/Grand Total Transactions	74%	\$ 5,389
Interest Expense	\$ 11,980	[[otal Transactions	74%	\$ 8,815
Other Miscellaneous Costs	\$ 276,910	Total Customer Service Transactions/Grand Total Transactions	74%	\$ 203,744
Total Other Costs	\$ 522,032			\$ 384,098

Table 11 – MVD Customer Service Cost Model – Other Costs

The Transactions worksheet includes detailed transaction counts grouped by Title transactions, Registration Transactions, Renew-by-Mail transactions, Vehicle Inspection transactions, Drivers License transactions, and Inquiry transactions. Headcount data is also included.

Transaction Type	FY2002 Total
Title Transactions	
Title with registration	618,676
Title only	236,201
Duplicate title	169,197
Salvage/dismantled title	46,106
Create initial title	305,816
Title from Authorization for Transfer of Ownership form	Included in above
Title from an Arizona Repossession Affidavit	Included in above
Bonded titles	Included in above
Restored salvage	Included in above
Reconstruct title	Included in above
Recovered theft title	Included in above
Non-repairable title	Included in above
Refurbished title	Included in above
Special Constructed title	Included in above
Total Title Transactions	1,375,996
Registration Transactions	
Vehicle registration renewals	975,925
Modify registration	85,537
Temporary registrations (TRPs)	77,771
Duplicate registration	37,368
Issuance of a replacement plate and/or year tab	76,584
Personalized plate applications	15,049
Issuance of Disability plates/placards	
Issuance of specialty plates	8,201
Issuance of government plates	
Mobile Home/Permanent Plates	7,219
Fleet Registrations	

Table 12 – MVD Customer Service Cost Model – Transactions

Transaction Type	EV2002 Total
Transaction Type	FY2002 Total
Other Registration Transactions	1 292 654
Total Registration Transactions	1,283,654
Renew-By-Mail	1 100 451
Renew-By-Mail Renewals	1,100,451
Total Renew By Mail Renewals	1,100,451
Vehicle Inspections	227.402
Level 1 Vehicle Inspections	227,402
Other Inspections	227.402
Total Vehicle Inspection Transactions	227,402
Drivers License Transactions	240 (20
Drivers License Issuance	240,629
Drivers License Renewal	125,251
Permits issued	93,870
Drivers License Reinstatement	68,823
Duplicate Drivers License	453,280
ID Card Issuance	94,838
Drivers License Cancellation	0
Drivers License Written Test	151,832
Drivers License Road Test	83,231
Motorcycle Skills Test	4,768
Commercial License (CDL) Written Test	17,692
Commercial License (CDL) Road Test	573
Total Drivers License Transactions	1,334,787
Total Non-Inquiry Customer Service Transactions	5,322,290
Inquiry Transactions	
MVR Inquiries	
Fee Inquiries	
Address Changes	
Record Sold Notices	
Total Inquiry Transactions	0
Grand Total MVD Customer Service Transactions	5,322,290
Grand Total Transactions (MVD & Third-Party)	2 201 104
Grand Total Title Transactions	2,291,194
Grand Total Registration Transactions	1,530,693
Grand Total Drivers License Transactions	1,347,142
Grand Total Vehicle Inspection Transactions	374,369
Grand Total Renew-by-Mail Transactions	1,100,451
Grand Total Inquiry Transactions	
Grand Total Service Arizona Transactions	589,728
Grand Total All Transactions Headcount	7,233,577
Average Customer Service Field Office Headcount	990
Average MVD Headcount	1,700
Average ADOT Headcount	4,855

# 4.6. THIRD PARTY COST MODEL

The Summary worksheet summarizes the total costs by category.

Cost Type	FY200	02 Total	Cost Per Tran	saction
Direct Personnel Costs				
Total Competitive Government Personnel	\$	1,794,035	\$	0.94
Total Direct Support Personnel	\$	257,189	\$	0.13
Total Direct Personnel Costs	\$	2,051,224	\$	1.07
Operating Costs				
Total Operating Costs	\$	1,937,518	\$	1.01
Technology Costs				
Total Information Technology Costs	\$	1,044,921	\$	0.55
Total Telecommunications Costs	\$	524,581	\$	0.27
Total Technology Costs	\$	1,569,502	\$	0.82
Indirect Costs				
Total MVD Indirect Costs	\$	655,315	\$	0.34
Total ADOT Indirect Costs	\$	252,765	\$	0.13
Total State Indirect Costs	\$	14,274	\$	0.01
Total Indirect Costs	\$	922,354	\$	0.48
Building & Equipment Costs				
Total Building Costs	\$	118,421	\$	0.06
Total Equipment Costs	\$	106,644	\$	0.06
Total Building & Equipment Costs	\$	225,065	\$	0.12
Other Costs				
Total Other Costs	\$	137,933	\$	0.07
Third-Party Fees				
Total Third Party Fees	\$	11,382,322	\$	5.96
Total Third Party Costs	\$	18,225,918	\$	9.54

# Table 13 – Third Party Service Cost Model – Summary

The Third Party Fees include all fees paid to third parties including the retainage of 2% of VLT, transaction fee retainage, and credit card fee reimbursements.

Cost Type/Function	Total FY2002 Costs		Allocation Basis	Allocation Percentage	Total Allocated to Third Party		
Third Party Fee Retainage							
2% of VLT	\$	6,571,119	Full	100%	\$	6,571,119	
Registration Fee	\$	1,513,230	Full	100%	\$	1,513,230	
Title Fee	\$	925,406	Full	100%	\$	925,406	
Driver License Fee	\$	220,727	Full	100%	\$	220,727	
Inquiry Fees	\$	7,497	Full	100%	\$	7,497	
Non-Resident Permit	\$	1,105	Full	100%	\$	1,105	
Credit Card Fee Reimbursment	\$	2,143,237	Full	100%	\$	2,143,237	
Total Third Party Fees	\$	11,382,322			\$	11,382,322	

#### Table 14 – Third Party Service Cost Model – Third Party Fees

The Direct Personnel Costs worksheet includes direct costs for MVD personnel that support the Third Party program, other direct support personnel costs and other personnel costs.

Cost Type/Function	FTEs	Total FY2	002 Costs	Allocation Basis	Allocation Percentage	ated to Third artv
Competitive Government Program Personnel					8	
Third Party Auditors	7.0	\$	270,578	Full	100%	\$ 270,578
Third Party QA	21.0	\$	494,251	Full	100%	\$ 494,251
Third Party D/L	15.0	\$	364,514	Full	100%	\$ 364,514
Third Party T&R	10.0	\$	162,094	Full	100%	\$ 162,094
CGP Admin	3.5	5 \$	130,934	Full	100%	\$ 130,934
ERE on Above CGP Personnel		\$	371,665	Full	100%	\$ 371,665
Total Competitive Government Personnel	56.5	\$ 1	,794,035		100%	\$ 1,794,035
Direct Support Personnel						
Renew-by-Mail - ISS	2.0	\$	46,222	Full	100%	\$ 46,222
Out-of-State Desk - ISS	1.0	\$	26,205	Full	100%	\$ 26,205
Comm Unit - ISS	2.0	\$	47,048	Full	100%	\$ 47,048
Training - ISS	1.5	5 \$	52,608	Full	100%	\$ 52,608
Warehouse - CSS	1.0	\$	24,940	Full	100%	\$ 24,940
Plate Positions - CSS	0.2	2 \$	6,885	Full	100%	\$ 6,885
ERE on Above Supporting Personnel		\$	53,281	Full	100%	\$ 53,281
Total Direct Support Personnel	7.7	\$	257,189		100%	\$ 257,189
Other Personnel Costs						
Temporary Personnel		\$	248,414	Headcount	3%	\$ 8,256
Education & Training		\$	182,922	Headcount	3%	\$ 6,079
Travel Expenses		\$	395,608	Headcount	3%	\$ 13,148
Other		\$	421,240	Headcount	3%	\$ 14,000
Total Other Personnel Costs		\$ 1	,248,184			\$ 41,484
Total Direct Personnel Costs	64.2	2 \$ 3	,299,408			\$ 2,092,708

#### Table 15 – Third Party Service Cost Model – Direct Personnel Costs

The Operating Costs worksheet contains primary operating costs such as plates & tags, driver license credentials, printing, postage, and supplies.

Cost Type/Function	Total FY2002 Costs				Allocation Basis		Total Allocated to Third Party	
Operating Costs								
Plates & Tabs	\$	2,295,285	Registrations	16%	\$	370,437		
Drivers License Credentials (DDL)	\$	2,400,000	DL Transactions	1%	\$	22,011		
Printing	\$	1,393,761	Transactions	26%	\$	368,266		
Postage	\$	175,585	Calculated	100%	\$	175,585		
Supplies	\$	3,789,277	Transactions	26%	\$	1,001,219		
Total Operating Costs	\$	10,053,908			\$	1,937,518		

## Table 16 – Third Party Service Cost Model – Operating Costs

The Technology Costs worksheet includes programming costs, IT equipment & software depreciation and purchases, external telecommunications costs, and telecommunications depreciation and purchases.

Cost Type/Function		tal FY2002 Costs	Allocation Basis	Allocation Percentage	Total Allocated to Third Party	
Information Technology Costs						
Programming	\$	3,522,535	Transactions	26%	\$	930,739
IT Equipment Depreciation (Capitalized Equipment)	\$	159,219	Transactions	26%	\$	42,069
IT Equipment Purchases (Non-Capitalized)	\$	248,140	Transactions	26%	\$	65,565
Software Depreciation (Capitalized)	\$	6,395	Transactions	26%	\$	1,690
Software Purchases (Non-Capitalized)	\$	18,385	Transactions	26%	\$	4,858
Total Information Technology Costs	\$	3,954,674			\$	1,044,921
Telecommunications Costs						
External Telecommunications	\$	1,842,956	Transactions	26%	\$	486,954
Telecommunications Equipment Depreciation (Capitalized Equipment)	\$	115,110	Transactions	26%	\$	30,415
Telecommunications Equipment Purchases (Non-Capitalized)	\$	27,294	Transactions	26%	\$	7,212
Total Telecommunications Costs	\$	1,985,360			\$	524,581
Total Technology Costs	\$	5,940,034			\$	1,569,502

### Table 17 – Third Party Service Cost Model – Technology Costs

The Building & Equipment Costs worksheet includes building rent & depreciation, maintenance, utilities, and equipment purchases, depreciation, and maintenance.

Cost Type		al FY2002 Costs	Allocation Basis	Allocation Percentage	Total Allocated to Third Party	
Building Costs						
Building Depreciation	\$	1,125,710	Headcount	3%	\$	37,413
Building Rent	\$	414,416	Headcount	3%	\$	13,773
Janitorial & Building Repair/Maintenance	\$	980,574	Headcount	3%	\$	32,590
Landscaping	\$	55,001	Headcount	3%	\$	1,828
Utilities	\$	987,420	Headcount	3%	\$	32,817
Total Building Costs	\$	3,563,121			\$	118,421
Equipment Costs						
Equipment Lease/Rental	\$	1,367,805	Headcount	3%	\$	45,459
Equipment Depreciation (Capitalized Equipment)	\$	33,154	Headcount	3%	\$	1,102
Equipment Purchases (Non-Capital)	\$	765,956	Headcount	3%	\$	25,457
Equipment Repair & Maintenance	\$	1,041,841	Headcount	3%	\$	34,626
Total Equipment Costs	\$	3,208,757			\$	106,644
Total Building & Equipment Costs	\$	6,771,877			\$	225,065

Table 18 – Third Party Service Cost Model – Building & Equipment Costs

The Indirect Costs worksheet includes indirect costs for functions that provide support to MVD personnel supporting the Third Party Program at the central MVD, ADOT, and State levels.

Cost Type/Function MVD Indirect Costs		tal FY2002 Costs	Allocation Basis	Allocation Percentage	Total Allocated to Third Party	
		CUSIS	Dasis	rereentage		rurarty
MVD Management	\$	685,510	Transactions	26%	\$	181,128
MVD Centralized Administrative Support	\$	1,311,709	Transactions	26%	\$	346,585
ERE on Above Personnel	\$	482,928	Transactions	26%	\$	127,601
Total MVD Indirect Costs	\$	2,480,147			\$	655,315
ADOT Indirect Costs						
Audit & Analysis	\$	1,698,900	Headcount	1%	\$	19,771
Executive Staff	\$	605,300	Headcount	1%	\$	7,044
Financial Management Services	\$	17,030,500	Headcount	1%	\$	198,192
Human Resources	\$	893,600	Headcount	1%	\$	10,399
Procurement	\$	1,060,900	Headcount	1%	\$	12,346
Training Resources	\$	430,700	Headcount	1%	\$	5,012
Total ADOT Indirect Costs	\$	21,719,900		7%	\$	252,765
State Indirect Costs						
DOA - General Accounting Office	\$	332,551	Headcount	1%	\$	3,870
DOA - State Procurement Office	\$	47,773	Headcount	1%	\$	556
DOA - Risk Management Division	\$	75,083	Headcount	1%	\$	874
DOA - Mail Room			Headcount	1%		
Attorney General	\$	203,733	Headcount	1%	\$	2,371
State Treasurer	\$	29,461	Headcount	1%	\$	343
Public Records - Legislature	\$	90,150	Headcount	1%	\$	1,049
Governor's Office - Office of Strategic Planning & Budgeting	\$	59,272	Headcount	1%	\$	690
Governor's Office - Office of Equal Opportunity	\$	45,718	Headcount	1%	\$	532
Governor's Office - Office for Excellence in Government	\$	282,686	Headcount	1%	\$	3,290
DOA - Occupancy	\$	60,123	Headcount	1%	\$	700
Total State Indirect Costs	\$	1,226,550			\$	14,274
Total Indirect Costs	\$	25,426,597			\$	922,354

## Table 19 – Third Party Service Cost Model – Indirect Costs

The Other Costs worksheet includes miscellaneous costs, such as advertising, insurance, and interest.

Cost Type	To	tal FY2002 Costs	Allocation Basis	Allocation Percentage	Total Allocate Part	
Other Costs						
Advertising	\$	225,818	Transactions	26%	\$	59,667
Insurance	\$	7,324	Transactions	26%	\$	1,935
Interest Expense	\$	11,980	Transactions	26%	\$	3,165
Other Miscellaneous Costs	\$	276,910	Transactions	26%	\$	73,166
Total Other Costs	\$	522,032			\$	137,933

### Table 20 – Third Party Service Cost Model – Other Costs

The Transactions worksheet includes detailed transaction counts grouped by Title transactions, Registration Transactions, Service Arizona transactions, Vehicle Inspection transactions, Drivers License transactions, and Inquiry transactions. Headcount data is also included.

Transaction Type	FY2002 Total
Title Transactions	
Title with registration	307,037
Title only	90,671
Duplicate title	60,054
Salvage/dismantled title	57,089
Create initial title	400,347
Title from Authorization for Transfer of Ownership form	0
Title from an Arizona Repossession Affidavit	0
Total Title Transactions	915,198
Registration Transactions	
Vehicle registration renewals	187,907
Modify registration	10,726
Temporary registration (TRPs)	26,280
Duplicate registration	2,469
Issuance of a replacement plate and/or year tab	18,732
Issuance of specialty plates	347
Issuance of government plates	0
Mobile Home/Permanent Plates	578
Fleet Registrations	0
Other Registration Transactions	0
Total Registration Transactions	247,039
Vehicle Inspections	
Level 1 Vehicle Inspections	146,967
Other Inspections	0
Total Vehicle Inspection Transactions	146,967
Inquiry Transactions	
MVR Inquiries (MVRs purchased)	
Fee Inquiries (from ServiceArizona)	
Plate Credit (from ServiceArizona)	
Address Changes (from ServiceArizona)	
Record Sold Notices	
Total Inquiry Transactions	0

#### Table 21 – Third Party Service Cost Model – Transactions

Transaction Type	FY2002 Total
Headcount Average CGP Headcount	56.5
Average COP Headcount Average Field Office Headcount	990
Average MVD Headcount	1,700
Average ADOT Headcount	4,855
Transaction Type	4,85. FY2002 Tota
Drivers License Transactions	F 12002 10ta
Drivers Licenses issued	706
Drivers license renewals	775
Permits issued	47
Drivers license reinstatements	4/1
Duplicate drivers licenses	(
ID cards issued	258
Drivers License Written Test	238
Drivers License Road Test	2,420
Motorcycle Skills Test	2,420
Commercial License (CDL) Written Test	
Commercial License (CDL) Road Test	7,69
Total Drivers License Transactions	12,35
ServiceArizona Transactions	12,55.
Registration Renewals	345,275
Duplication Drivers Licenses/Ids	76,282
Personalized/Specialty Plate	23,060
Fleet Registration Renewal	89:
Address Change	
Plate Credit	114,170
Restricted Use 3-Day Permit	30,03
Driver's License Reinstatement	
90 Day Temporary Permits	1
IVR Renewals	192,97
Total ServiceArizona Transactions	589,728
Total Non-Inquiry Third Party Transactions	1,911,28
Total Third Party Transactions	1,911,28
Grand Total Transactions (MVD & Third-Party) Grand Total Title Transactions	2,291,19
	2,2,1,1,

Grand Total Transactions (MVD & Third-Party)	
Grand Total Title Transactions	2,291,194
Grand Total Registration Transactions	1,530,693
Grand Total Drivers License Transactions	1,347,142
Grand Total Vehicle Inspection Transactions	374,369
Grand Total Renew-by-Mail Transactions	1,100,451
Grand Total Other Transactions	0
Grand Total Service Arizona Transactions	589,728
Grand Total All Transactions	7,233,577

## 4.7. COST MODEL ASSUMPTIONS

General Assumptions:

• The Cost Models are based on a full cost allocation basis. The cost models include direct personnel, supporting personnel, operating costs, technology costs, indirect costs, building & equipment, and other related costs.

- Indirect costs were included and allocated as appropriate for centralized MVD administrative costs, ADOT administrative costs for service departments that provide support to MVD, and State of Arizona administrative costs (as defined and allocated by the DOA General Accounting Office)
- Cost and transaction data was obtained directly from MVD Centralized Support, Competitive Government Programs, ADOT Financial Management Services and Budgeting, and the Department of Administration General Accounting Office.
- The complexity of transactions and services provided by MVD and Third Parties varies significantly. However, in our primary analysis, due to unavailability of data, we were unable to classify or segregate transactions by type or complexity. We did provide a secondary summary of costs per transaction by channel used to deliver these services (Customer Service OTC, ServiceArizona (Internet), mail, and traditional Third Party).
- The costs indicated for Third Party reflect the state costs only and do not include individual third party office operating costs.
- Convenience fees that third parties charge their customers were not included in the analysis.
- Revenues generated by MVD for Vehicle License Tax (VLT) and other transaction fees (registration fees, driver license fees, etc.) were not included in the analysis.
- Cost and transaction data was taken from Fiscal Year 2002 actual data.
- Transaction data included all types of the following:
  - Registration Renewals
  - o Titles
  - o Drivers License
  - Vehicle Inspections
  - o Renew-by-Mail
  - o ServiceArizona
- Inquiry transactions such as MVR inquiries, fee to owner inquiries, address changes and record sold notices were not included in the total transaction counts as those transactions were not all tracked or available for both Customer Service and Third Party.

Category	Cost Type	Assumptions	Allocation Basis	Source of Data
Direct Personnel Costs	Customer Service Personnel	All Customer Service Field Office Personnel (all ORGS but 2201) (869 Headcount) and Customer Service Headquarters Personnel (ORG 2201) (7 Headcount) and ERE on all of those personnel	Fully allocated to MVD Internal	Ruth Halikowski
Direct Personnel Costs	Direct Support Personnel	Other personnel that provide direct support to Customer Service but are not part of their ORGS. FTE's defined by management as follows: Abandoned Vehicle – 2 FTE Title Production – 0.5 FTE Film Research – 8 FTE Mandatory Insurance – 2.5 FTE Criminal Traffic – 2 FTE Medical Review – 1 FTE Training – 14 FTE Technical Support – 20 FTE Out-of-State Desk – 3 FTE Renew-by-Mail – 1 FTE Audit – 1 FTE Warehouse – 5.3 FTE Plate Positions – 0.9 FTE Dishonored Checks –	Amounts have already been allocated by determining FTE dedicated to supporting Customer Service Field Office	Ruth Halikowski

 Table 22 - Cost Model Detail Assumptions - Internal MVD Costs

Category	Cost Type	Assumptions	Allocation Basis	Source of Data
		2.8 FTE MV Enforcement – 4 FTE ERE on the above personnel was calculated using the same percentage (29.07%) as used for Field Office personnel		
Direct Personnel Costs	Temporary Personnel	Temporary agency services	Customer Service Headcount/MVD Headcount	Melissa Wynn
Direct Personnel Costs	Education & Training	Employee education & training	Customer Service Headcount/MVD Headcount	Melissa Wynn
Direct Personnel Costs	Travel Expenses	Lodging, meals, air fare, mileage, other travel	Customer Service Headcount/MVD Headcount	Melissa Wynn
Direct Personnel Costs	Other	Other personnel costs	Customer Service Headcount/MVD Headcount	Melissa Wynn
Operating Costs	Driver License Credentials	Staff, supplies, and equipment for DDL	% of Customer Service Transactions	Ruth Halikowski
Operating Costs	Plates & Tags	Total cost of producing plates and tags	% of Customer Service Transactions	Ruth Halikowski
Operating Costs	Printing	Total printing cost	% of Customer Service Transactions	Ruth Halikowski
Operating Costs	Postage	Amount already allocated by ADOT Budgeting	Fully allocated to Customer Service	Melissa Wynn
Operating Costs	Supplies	Total supplies including forms, office supplies, other	% of Customer Service Transactions	Melissa Wynn
Technology Costs	IT Costs – Programming	External Programming costs for mainframe, midrange, and PC	% of Customer Service Transactions	Melissa Wynn

Category	Cost Type	Assumptions	Allocation Basis	Source of Data
Technology Costs	IT Costs – Equipment Depreciation	Current year capitalized IT equipment purchased and depreciated straight-line over 5 years	% of Customer Service Transactions	Melissa Wynn
Technology Costs	IT Costs – Non- Capital Equipment	Current year IT equipment purchases that are not capitalized	% of Customer Service Transactions	Melissa Wynn
Technology Costs	IT Costs – Software Depreciation	Current year capitalized software purchased and depreciated straight- line over 5 years	% of Customer Service Transactions	Melissa Wynn
Technology Costs	IT Costs – Non- Capitalized Software Purchases	Current year software purchases that are not capitalized	% of Customer Service Transactions	Melissa Wynn
Technology Costs	External Telecommunications	External telecommunications services	% of Customer Service Transactions	Melissa Wynn
Technology Costs	Telecommunications Equipment Depreciation	Current year capitalized telecommunications equipment purchased and depreciated straight-line over 5 years	% of Customer Service Transactions	Melissa Wynn
Technology Costs	Telecommunications Equipment Purchases – Non- Capital	Current year telecommunications equipment purchases that are not capitalized	% of Customer Service Transactions	Melissa Wynn
Indirect Costs	MVD Indirect Costs	Costs for MVD management and centralized administrative support with ERE	Customer Service Headcount/MVD Headcount	Ruth Halikowski
Indirect Costs	ADOT Indirect Costs	Indirect costs are for ADOT departments that provide "internal service" functions to all of ADOT, including MVD. These include: - Audit &	Customer Service Headcount/Total ADOT Headcount	Melissa Wynn

Category	Cost Type	Assumptions	Allocation Basis	Source of Data
Indirect	State of Arizona	Analysis - Executive Staff - Financial Management Services - Human Resources - Procurement - Training Services Indirect costs are for	Allocations	DOA
Costs	Indirect Costs	State of Arizona Departments and offices that provide "internal service" functions to all State Departments including ADOT. DOA GAO provides a schedule of these costs to ADOT.	provided by DOA GAO are to ADOT. Further allocation to Customer Service by FY02 Customer Service Budget/FY02 Total ADOT Budget	General Accounting Office (GAO)
Building & Equipment Costs	Building Depreciation	Total value of Customer Service buildings depreciated over 40 years on straight-line basis	Customer Service Headcount/Total MVD Headcount	Rich Grommel
Building & Equipment Costs	Building Rent	Annual rent for leased Customer Service buildings	Customer Service Headcount/Total MVD Headcount	Ruth Halikowski
Building & Equipment Costs	Janitorial & Building Repair & Maintenance	Cost for Janitorial services and Building Repair & Maintenance for Customer Service buildings	Customer Service Headcount/Total MVD Headcount	Ruth Halikowski
Building & Equipment Costs	Landscaping	Cost for Landscaping services for Customer Service buildings	Customer Service Headcount/Total MVD Headcount	Ruth Halikowski
Building & Equipment Costs	Utilities	Utilities for Customer Service buildings	Customer Service Headcount/Total MVD Headcount	Ruth Halikowski
Building & Equipment Costs	Equipment Lease/Rental	Equipment lease/rental charges for Field Offices	Customer Service Headcount/Total MVD Headcount	Ruth Halikowski

Category	Cost Type	Assumptions	Allocation Basis	Source of Data
Building & Equipment Costs	Equipment Depreciation	Capitalized equipment (non IT) purchased in current year and depreciated straight line over 5 years	Customer Service Headcount/Total MVD Headcount	Melissa Wynn
Building & Equipment Costs	Equipment Purchases	Equipment purchases that are not capitalized	Customer Service Headcount/Total MVD Headcount	Melissa Wynn
Building & Equipment Costs	Equipment Repair & Maintenance	Equipment repair and maintenance	Customer Service Headcount/Total MVD Headcount	Melissa Wynn
Other Costs	Advertising	Advertising	% of Customer Service Transactions	Melissa Wynn
Other Costs	Insurance	Insurance in addition to DOA Risk Management allocation	% of Customer Service Transactions	Ruth Halikowski
Other Costs	Interest Expense	Interest expense	% of Customer Service Transactions	Ruth Halikowski
Other Costs	Other Miscellaneous Costs	Awards, dues, books, subscriptions, publications, microfilm, bad debt, other miscellaneous	% of Customer Service Transactions	Melissa Wynn

Category	Cost Type	Assumptions	Allocation Basis	Source of Data
Direct Personnel Costs	Competitive Government Program (CGP) Personnel	CGP personnel in the following functions: - Third Party Auditors – 7 FTE - Third Party QA – 21 FTE - Third Party D/L – 15 FTE - Third Party T&R – 10 FTE - CGP Admin – 3.5 FTE Including ERE on above personnel	Fully allocated to Third Party	Ruth Halikowski
Direct Personnel Costs	Direct Support Personnel	Other personnel that provide direct support to Third Party but are not part of CGP. FTE's defined by management as follows: Renew-by-Mail – 2 FTE Out-of-State Desk – 1 FTE Comm Unit – 2 FTE Training – 1.5 FTE Warehouse – 1 FTE Plate Positions – 0.2 FTE ERE on the above personnel was supplied	Amounts have already been allocated by determining FTE dedicated to supporting Third Parties	Ruth Halikowski
Direct Personnel Costs	Temporary Personnel	Temporary agency services	CGP Headcount/MVD Headcount	Melissa Wynn
Direct Personnel Costs	Education & Training	Employee education & training	CGP Headcount/MVD Headcount	Melissa Wynn

 Table 23 - Cost Model Detail Assumptions – Third Party Costs

Category	Cost Type	Assumptions	Allocation Basis	Source of Data
Direct Personnel Costs	Travel Expenses	Lodging, meals, air fare, mileage, other travel	CGP Headcount/MVD Headcount	Melissa Wynn
Direct Personnel Costs	Other	Other personnel costs	CGP Headcount/MVD Headcount	Melissa Wynn
Operating Costs	Plates & Tags	Total cost of producing plates and tags	% of Third Party Transactions	Ruth Halikowski
Operating Costs	Driver License Credentials	Staff, supplies, and equipment for DDL	% of Third Party Transactions	Ruth Halikowski
Operating Costs	Printing	Total printing cost	% of Third Party Transactions	Ruth Halikowski
Operating Costs	Postage	ServiceArizona renewals and Duplicate DL x presorted mail rates	Fully allocated	Jim Cullison
Operating Costs	Supplies	Total supplies including forms, office supplies, other	% of Third Party Transactions	Melissa Wynn
Technology Costs	IT Costs – Programming	External Programming costs for mainframe, midrange, and PC	% of Third Party Transactions	Melissa Wynn
Technology Costs	IT Costs – Equipment Depreciation	Current year capitalized IT equipment purchased and depreciated straight-line over 5 years	% of Third Party Transactions	Melissa Wynn
Technology Costs	IT Costs – Non- Capital Equipment	Current year IT equipment purchases that are not capitalized	% of Third Party Transactions	Melissa Wynn
Technology Costs	IT Costs – Software Depreciation	Current year capitalized software purchased and depreciated straight- line over 5 years	% of Third Party Transactions	Melissa Wynn
Technology Costs	IT Costs – Non- Capitalized Software Purchases	Current year software purchases that are not capitalized	% of Third Party Transactions	Melissa Wynn
Technology Costs	External Telecommunications	External telecommunications services	% of Third Party Transactions	Melissa Wynn

Category	Cost Type	Assumptions	Allocation Basis	Source of Data
Technology Costs	Telecommunications Equipment Depreciation	Current year capitalized telecommunications equipment purchased and depreciated straight-line over 5 years	% of Third Party Transactions	Melissa Wynn
Technology Costs	Telecommunications Equipment Purchases – Non-Capital	Current year telecommunications equipment purchases that are not capitalized	% of Third Party Transactions	Melissa Wynn
Indirect Costs	MVD Indirect Costs	Costs for MVD management and centralized administrative support with ERE	CGP Headcount/MVD Headcount	Ruth Halikowski
Indirect Costs	ADOT Indirect Costs	Indirect costs are for ADOT departments that provide "internal service" functions to all of ADOT, including MVD. These include: - Audit & Analysis - Contracts & Specifications - Equipment Services - Executive Staff - Financial Management Services - Human Resources - Procurement - Training	CGP/Total ADOT Headcount	Melissa Wynn

Category	Cost Type	Assumptions	Allocation Basis	Source of Data
Indirect Costs	State of Arizona Indirect Costs	Indirect costs are for State of Arizona Departments and offices that provide "internal service" functions to all State Departments including ADOT. DOA GAO provides a schedule of these costs to ADOT.	Allocations provided by DOA GAO are to ADOT. Further allocation to Third Party by FY02 CGP Budget/FY02 Total ADOT Budget	DOA GAO
Building & Equipment Costs	Building Depreciation	Total value of MVD buildings housing CGP personnel depreciated over 40 years on straight-line basis	CGP Headcount/Total MVD Headcount	Rich Grommel
Building & Equipment Costs	Janitorial & Building Repair & Maintenance	Cost for Janitorial services and Building Repair & Maintenance for MVD buildings housing CGP personnel	CGP Headcount/Total MVD Headcount	Ruth Halikowski
Building & Equipment Costs	Landscaping	Cost for Landscaping services for MVD buildings housing CGP personnel	CGP Headcount/Total MVD Headcount	Ruth Halikowski
Building & Equipment Costs	Utilities	Utilities for MVD buildings housing CGP personnel	CGP Headcount/Total MVD Headcount	Ruth Halikowski
Building & Equipment Costs	Equipment Lease/Rental	Equipment lease/rental charges for equipment used by CGP personnel	CGP Headcount/Total MVD Headcount	Ruth Halikowski
Building & Equipment Costs	Equipment Depreciation	Capitalized equipment (non IT) purchased in current year and depreciated straight line over 5 years	CGP Headcount/Total MVD Headcount	Melissa Wynn
Building & Equipment Costs	Equipment Purchases	Equipment purchases that are not capitalized	CGP Headcount/Total MVD Headcount	Melissa Wynn
Building & Equipment Costs	Equipment Repair & Maintenance	Equipment repair and maintenance	CGP Headcount/Total MVD Headcount	Melissa Wynn
Other Costs	Advertising	Advertising	% of Third Party Transactions	Melissa Wynn

Category	Cost Type	Assumptions	Allocation Basis	Source of Data
Other Costs	Insurance	Insurance in addition to DOA Risk Management allocation	% of Third Party Transactions	Ruth Halikowski
Other Costs	Interest Expense	Interest expense	% of Third Party Transactions	Ruth Halikowski
Other Costs	Other Miscellaneous Costs	Awards, dues, books, subscriptions, publications, microfilm, bad debt, other miscellaneous	% of Third Party Transactions	Melissa Wynn
Third Party Fees	Retainage	2% of VLT retained by Third Parties	Fully allocated to Third Party	Ruth Halikowski
Third Party Fees	Transaction Fees	\$1.00 per transaction	Fully allocated to Third Party	Ruth Halikowski
Third Party Fees	Credit Card Fees	Amounts reimbursed to Third Parties for credit cards	Fully allocated to Third Party	Ruth Halikowski

#### 4.8. **OBSERVATIONS**

Based on our analysis of the cost model, we are able to make the following observations:

- Total cost per transaction for MVD Customer Service is \$10.66 versus \$9.54 for Third Party. Using Third Party transactions allows a total savings to the state of over \$2.1 million per year.
- Direct Personnel Cost is the largest component of the MVD Customer Service cost at 56% of the total. Operating Cost is the next highest at 17% and then Indirect Cost at 11%.
- The Third Party Fee, consisting of the Retainage of 2% of VLT, Transaction Fee Retainage, and Credit Card Reimbursement, is the largest component of the Third Party cost at 62%. Direct Personnel Cost to support the Third Party Program is next at 11% followed by Operating Cost at 10%.
- For cost of Registrations by channel, Renew-by-Mail is significantly the lowest cost at \$2.42 per transaction, followed by Service Arizona at \$4.60, traditional Third Party at \$11.74, and MVD Customer Service at \$12.80.
- In addition to the cost savings of the Third Party Program, the Program provides a number of significant intangible benefits, such as:
  - Reduced wait times in existing Customer Service offices
  - More convenient hours and days of service availability

- Reduced customer travel time
- Reduced need for new buildings, MVD staff, and equipment •
- Improved customer goodwill Improved image of MVD responsiveness •
- Process improvement
- Demonstrated success of e-government and private/public partnerships

#### **APPENDIX A - LIST OF INTERVIEWEES**

The following individuals were interviewed by the project team.

Penny Martucci, MVD Jim Cullison, MVD Lenor Montemayor, MVD Micki Franklin, MVD Becky Burk, MVD Randy Raiford and direct reports, MVD Brenda Oddy, MVD Linda Sakhi, MVD Craig Stender, GITA Jim Douglas, Consultant Krista Trembly Ann Reece, MVD John Bogert, ADOT Rita Skiye, ADOT-Intermodal Transportation Division (ITD)

# **APPENDIX B - INTERVIEW QUESTIONNAIRE**

# **Interview Questions**

Name Division / Organization	
1.	Describe your responsibilities and functional area organization structure.
2.	Describe the major business processes that your organization performs or supports.
3.	What part of your organization supports the Third Party Program and in what way?
4.	What metrics can you provide that represents the cost and resources that your organization expends related to the Third Party program or traditional MVD services.
5.	Describe you familiarity and assessment of any previous Third Party Cost Benefit Analysis that you have seen.

# **Interview Questions**

6.	What shortcomings have you seen in these models that we should take into account when developing our models?
7.	What are the benefits of the Third Party Program?
8.	Are there services or transactions that should be added/deleted from the program?
9.	What do you think is the future of the Third Party Program? Why?
10	Is there additional information that can be provided or others that we should speak with to gain a better understanding of the Third Party Program?

## **APPENDIX C - INTERVIEW NOTES**

#### **Interview Notes**

Interviewee: Jim Cullison Date: Aug. 2, 2002			
Interviewer(s):Steve Kalina, Data Site ConsortiumTime:12:00 p.m.			
Don Logue, Data Site Consortium	_		
Relevance to the Study:			
Jim is the project liaison for our study.			
Key Items Discussed:			
The reason for this study is twofold:			
1. MVD is currently maxed out on the ability to provide oversight of third parties.			
• If MVD wants to expand third parties in number and geography, they will need to	0		
add staff for oversight. 2. Justification for the program itself.			
<ul> <li>Budget-based decision</li> </ul>			
<ul> <li>Looking for the future</li> </ul>			
MVD has had some companies interested in becoming third parties, particularly in T&R.			
However, MVD has not actively recruited new third parties in the past two years.			
Lealing at averaging for values increation of shandaned values as Compatible this is done only			
Looking at expanding for vehicle inspection of abandoned vehicles. Currently, this is done only by MVD enforcement people and they are backlogged significantly.			
by WVD enforcement people and they are backlogged significantly.			
Big backlogs also exist in Level 2 & Level 3 inspections. It is more difficult to train people for			
those inspections. Not sure if will allow third parties to do those in the future.			
In T&R, there are a number of transactions that third parties are not allowed to do (confidential,			
more complex, etc.).			
They could expand third parties in the area of Drivers License processing. They only have two			
companies doing this now – one in Phoenix and one in Tucson. They can do everything except			
provide the credentials.			
Still have document prep companies, known as Title Service Companies. They are not			
considered third parties.			
Motor Carrier can be considered as part of the Third Party Program. It is a small part but could			
grow. Jim doesn't think that any third parties for motor carrier also do traditional T&R functions.			
Jim indicated he would provide us a copy of the Third Party Statute.			

For Electronic Service Delivery (ESD), MVD does not have any plans to add providers besides Service Arizona from International Business Machines (IBM). However, they can't prevent others from applying. Any new providers would have to set the bar by providing all the current transactions that are available as well as some sort of value add. There are plans to add additional transactions to Service Arizona. MVD plans those with IBM year-to-year. Expenses for ESD come from Rita Skiye's area in ITG.

Driver Services includes about 20 third party contractors and many testers (Jim wasn't sure). CDL is even bigger – 140 contractors and 300-400 testers. They are located throughout the state. These functions are also done at MVD field offices.

Driver Education programs in public schools are not considered third parties. Those programs can do road test and written tests, but the applicant must come into a MVD office to get their license.

Level 1 Vehicle Inspection is mostly auto dealers. There are 420 contracts and 900+ certified inspectors. Beside auto dealers, auto auctions and salvage companies have lots of inspectors.

The Competitive Government group includes:

- Third Party Program
- Renew by Mail
- Dealer Licensing
- Electronic Government
- Electronic Data Services (i.e. providing electronic MVRs to authorized parties)

MVD does refer some technical vendors to third parties for hardware, network setup, etc. There is a certification process for those technical vendors which would have a cost for MVD to administer. Ask Micki Franklin or Rita Skiye for more information.

Interviewee:	Lenor Montemayor Deputy Assistant Director Title & Registration Partnerships	Date:	Aug. 6, 2002	
Interviewer(s):	Steve Kalina, Data Site Consortium Don Logue, Data Site Consortium		2:00 p.m.	
Relevance to the	e Study:			
	uty Assistant Director over Title & Regis Partnership Administration, Quality Ass			
Key Items Discu Lenor indicated t were omitted.	issed: that the previous studies done by Ruth w	ere not con	plete. Indirect costs	
The focus should facilities would N	l be if third parties were not available, ho MVD need.	w many m	ore people and	
offices. Approxi	There are about as many people employed by third parties as there are in MVD field offices. Approximately 65 T&R third parties with over 200 processors. There are about the same number of field offices.			
	Third party program originated as a result of a mandate to reduce the wait time in MVD offices to 15-20 minutes.			
Only two third pa	Only two third parties are doing Drivers Licensing.			
Recently implemented reinstatement of drivers licenses on the Internet. This will take a lot of transactions out of the field offices.				
There are no plans to open more MVD field offices. Charlene Knapp is in charge of all field offices. We might want to talk to her.				
Technical costs are part of the WAN group (Mike Garrett's group) and the System Architect group (Roger Baune's group).				
Previously, Information Technology Group (ITG) people were a part of third party but Craig Stender integrated them with the rest of ITG.				
Generally, third parties are responsible for their own technology issues. ITG usually does not go out to support third parties.				
-	Might be able to see how many hours are used by ITG in supporting third parties by reviewing Help Desk Expert Automation Tool (HEAT) system reports.			
L	57			

There is no different costs for IT development between third party and internal – they use the same systems.

Quality Assurance group – all batches from third parties go to QA – they sample and review batches before sending down to Microfilm.

Separate Third Party Audit people are part of Audit & Analysis.

Motor Carrier is part of Lenor's group.

Authorized = Company; Certified = Processor

Have different levels of training depending on authorization. Third parties only pay for book/materials cost (\$30). MVD absorbs all other training costs for trainers, facilities, etc.

Other states – Virginia is probably closest to Arizona – especially for e-government. New Mexico has done some outsourcing. Several other states have done a little. Arizona is the leader.

Randy Raiford – ask him about access to MVRs

Setup for third parties – takes about 60 - 90 days (primarily because of Qwest to provide T1 line)

Prospective third parties request what types of transactions they wish to handle. Some transactions cannot be done by any third party -i.e. restored salvage. Have different levels of authorization with terms and definitions - obtain from Micki Franklin.

In the future, they plan to pilot allowing third parties to do bonded titles and to expand drivers license third parties.

For ESD, any new applicant must do everything that Service Arizona currently does plus some value-added.

No limits on pricing except "reasonable and commensurate". Third parties must post signs with their fees compared to MVD fees.

Does not track customer impact/costs of third parties.

Have some very successful third parties. They can make a very good living. Some drop out because they don't like all of the rules and regulations. MVD has had to cancel a few third parties.

If sell a third party, still have to reapply to the selection panel. There have been 2-3 sales of third parties over the past several years.

Ask Micki Franklin for listing of groups, third parties, whether they are open to the public or not, and their hours of operation (benefit to customers).

State Treasurer's office has to set up bank accounts for new third parties. Coordinated by Financial Management Services (FMS).

Data Link system – Heather Olsen's group developed – tracks info about third parties – is a web based application. Ask Micki for more details.

Interviewee:	Micki Franklin Project Coordinator Title & Registration Partnerships	Date:	Aug. 6, 2002	
Interviewer(s):	Steve Kalina, Data Site Consortium Don Logue, Data Site Consortium		3:00 p.m.	
Relevance to the				
Micki is the Proj	ect Coordinator/Office Manager for T&F	R Partnersh	ips. She assists third	
	inistrative needs, workstation setup, cred d support services for Third Party.	lential inve	ntories, and provides	
Key Items Discu	ıssed:			
In the past, some studies were done on tracking the amount of time per transaction. Came up with an average of 7.5 minutes for all transactions. Not sure if there was any breakdown of time by transaction type or complexity. Micki indicated she would try to find those studies.				
Field offices do i	more types of complex transactions than	what third	parties can do.	
Only fees third p check.	arties pay is \$30 for training manual and	\$24 to DP	S for fingerprint	
	Third parties do Temporary Registration Permits but field offices don't do (just Dealer Services office on Washington does).			
Training classes for third parties are done at least once a month. Classes are typically limited to $6 - 8$ people. Basic T&R class is 12 days. There are a few other specialty classes that are a few hours each. MVD training group delivers the training, so that would be a third party cost. Typically is about 100 hours per month of instructor time (1 or 2 instructors). Training is held at MVD facilities – usually $28^{th}$ St & Washington, $51^{st}$ Ave & Indian School, or in Tucson).				
16 new third parties were added in FY2002.				
QA serves as hel	QA serves as help desk for third party users.			
Micki does all security setup for new third parties (user Ids, passwords, transaction access).				
_	Data Link system is not completed yet and some of the data is not available. Help Desk does track calls received from third parties.			
Technical vendors – must be certified by MVD – written and hands-on test (install hardware and software). ITG personnel (PC/LAN group) give this certification test to the third parties – each takes about 4-5 hours.				

Interviewee:	Becky Burk Quality Assurance Manager Title & Pagistration Partnershing	Date:	Aug. 6, 2002	
Interviewer(s):	Title & Registration Partnerships Steve Kalina, Data Site Consortium Don Logue, Data Site Consortium	Time:	3:30 p.m.	
Relevance to the	e Study:			
	nger for the Quality Assurance function			
group reviews an	d provides quality checks on work perfo	ormed by the	ird parties.	
Key Items Discu				
QA deals solely	with traditional third parties.			
Third parties batch work and hand deliver or Fedex to QA. They log batches into big Excel spreadsheet and then separate by each company and by clerk. QA checks are done 100% for some third parties and some of the more established third parties only have 10% of their work reviewed by QA.				
	it gets put into buckets and goes to mice forwards copies back to the third parties		· · ·	
Field offices do not have their own QA group. Supervisors at field offices are supposed to QA 10% of the work from each field office, although it may vary.				
Quality & accuracy is better for third parties because they are being watched by QA. Unable to compare between field office and third party quality & accuracy because field offices do not keep track of any error rates or other measurements.				
QA sends discipl	QA sends disciplinary letters to third parties if needed.			
Everything gets i	nicrofilmed whether from third party or	field office	S.	
No additional pro	No additional processing is done by QA – they just review the work done by third parties.			
QA has access to the TPX View system where they can watch users at third parties entering a transaction.				
QA provides a significant amount of help desk support for third parties. QA personnel average 24-28 hours per person per week on the phone with third parties.				
No automated call distribution for phone calls. Usually just assign desks/groups to answer phones.				

Interviewee:	Penny Martucci Assistant Division Director Competitive Government Partnerships	Date:	Aug. 6, 2002
Interviewer(s):	Steve Kalina, Data Site Consortium	Time:	4:00 p.m.
Delever es to the	Don Logue, Data Site Consortium		

**Relevance to the Study:** 

Penny is the Assistant Division Director for Competitive Government Partnerships and is the sponsor of this project.

Key Items Discussed:

A problem with previous studies is that they did not include any indirect costs.

Stacy Stanton & Charlie Bitner would like a QA function for the field offices but can't add the cost.

The third party program has been going for 9-10 years.

On Renew by Mail for Service Arizona – prison puts tags on renewal and mails – have only been using prison to do for the past 5-6 months.

Areas Penny is concerned with:

- Value of QA not sure how to show this politically
- Cost Avoidance
- Indirect Costs

Possibly use cost of adding new field offices or additional field office wait times as a way of articulating benefits of the Third Party Program. There is a model for the cost of reducing field office wait times. Penny would look into this.

Future – some new transactions, more drivers license third parties, expand in outlying areas (geographically). However, now have a moratorium on any new third parties until they can get more QA people.

E-government – currently Penny is leader. Are hiring a Program Manager for E-Gov to report to Lenor. Krista Trembly works solely on Service Arizona now.

To segment on study – third parties and ESD. Don't break out motor carrier separately (too small). Do not include driving schools, etc.

Big issue distinguishing between Transactions, Services, and Activities. Transaction classifications would make the cost study more meaningful.

Charlene Knapp – Customer Service – has Queuematic data – keeps standards on how long to do each transaction in field offices. If transactions were to be segregated by complexity, this data is essential.

## **Interview Notes**

Interviewee:	Randy Raiford, Program Manager Driver Services Brenda Oddy & Linda Sakhi, Drivers Services	Date:	Aug. 7, 2002
Interviewer(s):	Steve Kalina, Data Site Consortium Don Logue, Data Site Consortium	Time:	1:30 p.m.
Relevance to the			
	n Manager for Driver Services that inclu		
0,	ommercial Drivers License testing, Level ctronic Data Services.	I Vehicle	Inspections, drivers
schools, and Elec	chome Data Services.		
Key Items Discu	ıssed:		
Some of the area	s that Randy handles are considered third and Level 1 Vehicle Inspections are cons		
	easurements of numbers of transactions lopa County and Pima County.	by type for	CDL – will provide
	- have supervisor and three staff that adn ffic survival schools. Approximately hal		
900+ inspectors.	Inspections – majority are auto dealers. Average approximately 11,000 inspective classroom and hands on training.	11	1
Do not allow thin them to do abanc	rd parties to do Level 2 or Level 3 inspectioned vehicles.	tions, but n	nay start allowing
Last month, 13,0	00 Level 1 inspections by third parties an	nd 18,000 b	by MVD field offices.
programs). They	er schools are not considered third partie do administer written test and driving te te to a MVD field office to get the creder offices.	ests and issue	ue a certificate of
	can be done in any MVD office but skill odyear and Southwest Mesa). Motorcycl		2
-	ount of work is required for Drivers Serv rtificates of completion.	vices enterin	ng data for traffic
Level 1 Vehicle	Inspections – only one person assigned for	or administ	ration and data entry.

Have eight people total in Dealer area.

Big time savings for dealers to have own Level 1 inspectors so they don't have to dedicate people to drive hundreds of vehicles to MVD offices for inspections.

Previously took up to six weeks just to take CDL skills test because of backlog. Is much better now.

Hold third parties to higher standard than field office people in Level 1 Inspection.

Level 1 Inspection & Dealer Services is at 28<sup>th</sup> St & Washington office. Driver Services is on first floor of main MVD building.

Electronic Data Services – electronic access to MVRs. Not giving photos online. Not considered third party but does take away work from field offices. Have 52 non-government customers (private investigators, insurance companies, etc.). Some customers very high volume (one customer purchased 250,000 records in one month).

## **Interview Notes**

Interviewee:	Craig Stender Director - GITA	Date:	Aug. 9, 2002
Interviewer(s):	Steve Kalina, Data Site Consortium	Time:	7:30 a.m.
Relevance to the			
MVD systems an 'Comparing the O	Chief Information Officer (CIO) of ADC ad operations. Craig was the primary aut Costs of Traditional Motor Vehicle Trans very System'. In addition, he is very fan studies.	hor of a stu saction Del	idy entitled ivery to an e-
Key Items Discu			
	the study is relevant although he feels the y of in-house processing versus the private.		
	ly like this needs to separate the costs int al Third Party, and ESD.	to three con	nponents, Field
He firmly believe transactions.	es that ESD is the lowest cost, least risky	way to ou	tsource MVD
	uld be categorized, possibly into three ty s and comparing third party to over the c		-
	eaking with John Bogert, ADOT Chief of wledgeable about the topic and cost acco		
outsourcing effor relevant informat	t we check with Virginia and Massachus rts. Although he admitted that a lot of tin tion from other states. He tried as part of A had very little in the way of relevant in	ne could be f his study,	e wasted trying to get and had little
computer hardwa	uth Halikowski's cost study did not incluare or office costs as part of the study. May well. He feels these costs should be inc	lost likely 1	2
is no easy way to	ut quantifying the benefits of the Third P o put dollar amounts on these soft issues. vings in terms of an average customer ho	He attemp	oted to quantify
completed in the	the quality differences between the MV Third Party program, we agreed that qua ctions, but could not be readily don't for	ality could	be quantified for

## **Interview Notes**

Interviewee:	Jim Douglas	Date:	Aug. 9, 2002
Interviewer(s	: Steve Kalina, Data Site Consortium Mike Keeling, Data Site Consortium	Time:	1:30 p.m.
Relevance to			
	her Deputy Director of MVD in charge of t		
	s participated in cost modeling exercises a		
familiar with t	he issues and complexities related to perfo	rming this s	study for MVD.
Key Items Dis	scussed:		
This study is o	f interest to the MVD Director, ADOT dir	ector and th	e Governor's office.
Jim agrees that	t transactions need to be categorized to cor	npare costs	across programs. A
	prization that we discussed was to split trans	nsactions (o	or services) into three
categories:			
1.	Ones that update the database and provide	e a deliverat	ble to the customer
2.	Inquiry transactions		
3.	Other activities (i.e. Testing)		
	ategories, we could then categorize them f	urther based	d on the delivery
channel:			
1.	Electronic & IVR		
2. 3.	OTC Mail		
4.	Phone		
т.	Those		
	hird party productivity is much higher that we get field office productivity measures		
manner in whi should cancel the of the Thir to indemnify in	ere were some shortcomings in the previou ch credit card charges were handled. Jim s out in a comparative study, and that they w d Party program. In addition, the risk man tself for the Third Party program was not in ed. Many indirect costs were also omitted.	suggests that vere include agement pr ncluded as a	at these charges ed only as a cost to emium paid by MVD
taken into according percentage is of Service Arizon contends that a	rested in the impact of incomplete transact ount in previous studies. He suggests that close to equal for all channels. For instance in transactions which are aborted and this p is similar percentage of OTC transactions a field office to renew a registration and does	the incompl e, although percentage re aborted v	lete transaction there are a lot of can be quantified, he when a customer

The scope of the study should include ESD, and anything else, which, if eliminated would move work to the field offices.

We agreed that a good approach to the study would be to focus on the impact to MVD and the customer if the Third Party program were eliminated. This could be a function of both cost and wait time.

He said an old model described the cost of eliminating 1 minute of average wait time at a field office at \$1.3 million. He thinks that there might be a new number, and we should check with Ruth Halikowski.

He said that it would be beneficial to include a comparative state model for MVD third party programs. He said Gene Martell could give us some information related to other state's programs.

## **Interview Notes**

Interviewee:	Ann Reece	Date:	Aug. 19, 2002
	RBM Supervisor		
	Title & Registration Partnerships		
	Steve Kalina, Data Site Consortium	Time:	11:00 a.m.
Relevance to the			
-	ne Renew by Mail area and all mail room	m activities	related to sending
renewals and tag	s as well as the ACI activities.		
Key Items Discu			
	ves all renew by mail requests from cust l, and the renewals are sent to Arizona (		
where the tab is a	assigned and stapled to the registration,	tab number	written on the
	he tab number keyed onto the T&R con		
U	n and tags are sent back to Ann's area, y	where they a	are sealed mailed to
the customer.			
Third Party cost.	e are assigned to the Service Arizona p (Ann provided a Position Control Regi rea of responsibility).		
The Special Plate	es area will move to her responsibility in	n September	
inmates are assig and complete key	n does not process registrations with pla ned to the MVD program and MVD is o verification at 90% of that rate. There serted. The charge to MVD in July for registrations.	charged \$.9. is a \$.06 ch	5 per 1000 characters harge for each tab
hire almost 40 ne	ea is not set up to process tags and she e w staff if that activity was brought in-h savings program for MVD.		
Ann provided tra	nsaction volumes for her department.		
She offered to pro-	ovide us with any needed information a	s we build c	our cost models.
Ann is not famili	ar with the previous cost Third Party co	st studies.	

## **Interview Notes**

Interviewee:	Krista Trembly Customer Service Liaison Title & Registration PartnershipsDate:Aug. 16, 2002
Interviewer(s):	Steve Kalina, Data Site ConsortiumTime:11:00 a.m.Don Logue, Data Site Consortium11:00 a.m.11:00 a.m.
Relevance to the	
	mer Service agent that works solely with Service Arizona. She works A and also with some customers.
Key Items Discu	isseq.
	e supporting Service Arizona.
	ciliation of Service Arizona activity (covering 7 days a week since is available 24x7).
Gets information much their wires	from email and from Armani. Contacts IBM to let them know how should be.
John Tisdale use (retainage) back	s Krista's reconciliation and credit card statements to determine rebate to IBM.
Krista handles so	ome calls from customers – problems, need refunds, etc.
Donna Palmoe g	ets emails from Service Arizona and distributes to appropriate areas.
	person on 8/19/02 to be backup to Krista and do more meetings and t & testing of Service Arizona.
Krista has done s	some technical testing.
If another ESD p	provider were added, they would probably need to add another person.
transaction, and	n renewal from Service Arizona requires that Renew by Mail process the mail the tags. Two people from Renew by Mail are dedicated to Arizona renewals.
	<ul> <li>print duplicates and reinstatements processed on Service Arizona.</li> <li>dedicated each day to produce drivers licenses.</li> </ul>
-	A operates primary help desk. At times, customers have not received stion credit card charges. Then the call or email gets forwarded to Krista
Payment to IBM	is 2% of VLT (with \$4 minimum) + \$1.00 per registration (if two year

registration, the amount is 2% of VLT with \$8 minimum + \$1.00). \$4 for duplicate drivers license. Personalized plates – IBM charges convenience fee to customer – MVD does not pay IBM anything for personalized plates.

Statistics - Krista has on spreadsheet.

IVR – lots of renewals. Only thing that can be don on IVR is registration renewals.

Can get more transaction info from Jim Cullison and Rita Skiye.

To get retainage and other financial info, contact John Tisdale.

Krista is not familiar with the prior Third Party cost benefit model and had no input as to how our model should be constructed.

## **Interview Notes**

Interviewee:	John Bogert ADOT Chief of Staff	Date:	Aug. 16, 2002
Interviewer(s):	Steve Kalina, Data Site Consortium Don Logue, Data Site Consortium	Time:	2:00 p.m.
Relevance to the			
John is the forme complexities asso operations with t	er Chief Auditor for ADOT and is familia ociated with trying to define and compare he Third Party program. He is familiar v	e costs of in	nternal MVD
Key Items Discu	issed:		
Third Party conv program.	enience fees charged to customers should	d be consid	ered a cost of the
what is a transact between field off customer – issuar	ome type of transaction categorization sho tion. Can't mix transaction types becaus ices and third parties. John believes tran nce of a title or registration or drivers lice hange (database update) vs. Inquiry.	e they vary saction is a	proportionally an exchange with a
Should categoriz	e by channel (OTC, Phone, Internet, Mai	1).	
to use incrementa	e best way to measure costs of the progra al or marginal costs. Cost should be appl e it takes to complete a given transaction	lied to trans	
	actions from Service Arizona take away away from Renew by Mail (which John		
Renew by Mail -	- cannot put in with the OTC bucket		
Convenience fee (take a global cus	s should be included as a cost associated stomer view).	with a thir	d party transaction
	n transactions that are done by both third omplex transactions.	parties and	d field offices. Don't
Incremental cost	of field office is having another body at	a counter.	
By having third p	parties, is avoiding more fixed costs (i.e.	additional	facilities).
ADOT does not	have a true cost accounting system. Are	not set up	to do cost accounting.
Most difficult to	get costs for the field offices – other cha	nnels are ea	asy.

Overhead allocations are difficult. Difficult to determine appropriate basis for allocation. Only use indirect costs that increase with transaction volume.

Some way to quantify benefits must be arrived at. Convenience, pollution and traffic reduction are all benefits. Convenience is the biggest benefit.

Aborted transactions are an issue of customer service- an activity, a cost of doing business.

MVD cannot adjust quickly to changes in volume – MVD is appropriated with budget cycles way in advance.

If doing a total, total cost model – is a lot of complexity and would require huge changes in the accounting system – and for what purpose?

#### **Interview Notes**

Interviewee:	Rita Skiye ADOT ITD – Special Projects	Date:	Sept. 4, 2002
	Director		
Interviewer(s):	Steve Kalina, Data Site Consortium		3:00 p.m.
Relevance to the	e Study:		
	systems development and support for M	<b>IVD</b> Custor	ner Service and the
-	ram. She is familiar with the systems an		
the various MVI	5		
	programs.		
Var Itana Dian	recod.		
Key Items Discu	issed:		
categorize by cha service is added Projects staff to o These are cost in	some type of transaction categorization s annel (OTC, Phone, Internet, Mail). IBN to Service Arizona. Most of the effort is design, program and implement the servi which MVD pays.	A does very on the part ce on the b	t little when a new t of the MVD Special ack-end systems.
All costs associa ORG 2022.	ted with Third Party technical support an	nd developr	nent are put into
related to Third I Service Arizona.	Technical Support for Third Party include Party. In addition, Rene Crum is complet We will have a hard time segregating the ne reporting and HEAT reporting are not	ely dedicat the time that	ed to supporting staff works on Third
	ed that we talk to Karen Strickland to get ter processing charge back for MVD.	the detaile	d charges from DOA
MUD data areas		41- 11-1:1	1. 1.1 1.1

MVD data processing cost are continually reviewed by Ruth Halikowski and she would be a good source for this information.

In terms of mainframe processing, nothing is unique to Third Party processing. All programs run for MVD Third Party T&R and Drivers processing are the same used for Field Office processing. There are a few extra database tables and controls in place related to Third Party, but these are insignificant in terms of cost.

Cost associated with Service Arizona use of UNI/AAMVANET must also be included in the model. She is unsure as to whether these Third Party costs can be segregated from other uses of these services. She will check into this.

Rita had not seen the previous Third Party cost models developed by MVD but agreed that segregating transaction delivery channel costs is important in MVD deciding which programs to expand.

#### **APPENDIX D - COST MODEL INSTRUCTIONS**

#### Overview

The Third Party Transaction Cost-Benefit Analysis model is a series of three interlinked Microsoft Excel workbooks. Microsoft Excel 97 or greater (Excel 97, Excel 2000, Excel 2002) may be used to access and update the model. Minimal Microsoft Excel knowledge is needed to use the model. Modifying the model requires intermediate level of understanding of Microsoft Excel, including formulas and worksheet linking.

The files are all small, under 70KB each, and can fit on a single diskette. The files must be loaded into the same subdirectory to allow the links to work correctly. File names and worksheet names should not be renamed to preserve the links between worksheets.

The three Excel files or workbooks are:

- 1. **CostModelSummary.xls** contains the overall summary, summary by channel (Customer Service, Renew-by-Mail, traditional Third Party, and Service Arizona), and detailed calculations by channel.
- 2. **MVDCosts.xls** contains all of the detailed costs, allocations, and transactions that apply to MVD Customer Service.
- 3. **ThirdPartyCosts.xls** contains all of the detailed costs, allocations, and transactions that apply to Third Parties, including Service Arizona.

The two detailed Excel files or workbooks for MVD Customer Service Costs and Third Party Costs contain multiple detailed worksheets or spreadsheets. The detailed worksheets are linked into a Summary worksheet that is then linked into the overall Cost Model Summary. Thus, any changes in a detailed cell in the model are automatically recalculated and displayed in the Summary worksheet for that model as well as the overall Cost Model Summary.

Basic use of this model requires minimal data entry and recalculation. Formulas used in calculations only need to be changed when adding new cost types or changing allocation methods. Additional descriptions and examples of modifications are included later in this instruction manual.

Exact formulas for each cell in each worksheet are included at the end of this instruction manual.

Cost and transaction data in the model is for the most recent fiscal year data available, the ADOT Fiscal Year 2002 (July 1, 2001 – June 30, 2002).

#### Detailed File Descriptions

The detailed worksheets in each file or workbook include:

#### 1. CostModelSummary.xls

a. **Summary** – provides an overall summary comparison of MVD Customer Service costs and Third Party costs at total amounts and per transaction amounts by cost type.

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;	Cost Type	FY	2002 Total		n	FY2	2002 Total		n										
	Direct Personnel Costs	<u> </u>																	
	Customer Service Personnel	\$	29,579,207	\$	5.56	\$	1,794,035	\$	0.94										
	Direct Support Personnel	\$	2,482,167		0.47	\$	257,189		0.13										
	Total Direct Personnel Costs	\$	32,061,374	\$	6.02	\$	2,051,224	\$	1.07										
	Operating Costs																		
	Operating Costs	\$	9,416,391	\$	1.77	\$	1,937,518	\$	1.01										
	Technology Costs																		
	Information Technology Costs	\$	2,950,362	\$	0.55	\$	1,044,921		0.55										
	Telecommunications Costs	\$	1,460,780	\$	0.27	\$	524,581		0.27										
	Total Technology Costs	\$	4,411,142	\$	0.83	\$	1,569,502	\$	0.82										
	Indirect Costs		4004.000		0.04		055.045		0.04										
	MVD Indirect Costs ADOT Indirect Costs	\$ \$	1,824,832 4,428,981	\$	0.34	\$	655,315 252,765		0.34										
) D	State Indirect Costs	\$	250,110	\$	0.85	\$	14,274		0.13										
1	Total Indirect Costs	\$	6,503,922	\$	1.22	\$	922,354		0.01										
2	Building & Equipment Costs	+	6,003,022	*	1.26	•	322,304	4	0.40										
3	Building Costs	\$	2.074.994	\$	0.39	\$	118,421	\$	0.06										
\$	Equipment Costs	ŝ	1,868,629	\$	0.35	\$	106,644		0.06										
5	Total Building & Equipment Costs	ŝ	3,943,623	\$	0.74	\$	225,065		0.12										
5	Other Costs	Ľ		Ť		Ľ.		Ľ											
7	Other Costs	\$	384,098	\$	0.07	\$	137,933	\$	0.07										
в	Third-Party Fees																		
9	Third-Party Fees		N/A		NłA	\$	11,382,322		5.96										
)	Total Costs	\$	56,720,549	*	10.66	*	18,225,918		9.54										
	Total Cost Savings Using Third Parties					\$	2,142,993	\$	1.12										
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Figure 2 – CostModelSummary.xls file – Summary worksheet

b. **ChannelSummary** – provides a summary of costs per transaction by Channel: MVD Customer Service (over-the-counter), Renew-by-Mail (mail), traditional Third Party (third party offices), and Service Arizona (Internet).

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1		ADOT Motor V							
2		Third Party Cost		is					
3		Summary I	by Channel						
4									
5									
6	Customer Service	Renew by Mail	Third Part		Service Arizon	a			
	Cost Per	Cost Per	Cost Per		Cost Per				
7	Transaction	Transaction	Transactio		Transaction				
8	\$ 12.80	\$ 2.42	\$	11.74	\$ 4	.60			
9									
	* Renew-by-Mail and Service	Arizona only include Registra	tion Renewals						
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Figure 3 – CostModelSummary.xls file – ChannelSummary worksheet

c. **ChannelDetail** – provides detailed calculations to segregate costs of Renewby-Mail from MVD Customer Service and Service Arizona from Third Party to provide proper breakdown for the ChannelSummary worksheet.

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6	Customer Service	Ϋ́						
		All CS costs less those			Total CS Registrations/(Total			_
7	Registrations	allocated to RBM		\$54,059,558	CS Transactions-RBM)	\$16,436,857.94	\$ 12.8	80
		All CS costs less those			Total CS Titles/(Total CS			
8	Titles	allocated to RBM		\$54,059,558	Transactions-RBM)	\$17,619,273.40	\$ 12.8	80
		All CS costs less those			Total CS DL/(Total CS			
9	DL	allocated to RBM		\$54,059,558	Transactions-RBM)	\$17,091,602.80	\$ 12.8	80
		All CS costs less those			Total CS VI/(Total CS			
10	Vehicle Inspections	allocated to RBM		\$54,059,558	Transactions-RBM)	\$ 2,911,823.88	\$ 12.8	80
11						\$54,059,558.02		
12	Renew-by-Mail							
		Costs for RBM						
13	Registrations	personnel except those	Avg sal & ERE * HC					
14		Plates & tabs	#of RBM	\$ 397,987				
15		Printing	#of RBM	\$ 212,034				
16		Postage	#of RBM	\$ 268,791				
17		Technology	RBM HC/MVD HC	\$ 912,060				
		Indirects (MVD,						
18		ADOT, State)	RBM HC/MVD HC	\$ 80,343				
i I	↓ ► ► Summary 1/	ChannelSummary \C	hannelDetail	40.316				•
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Figure 4 – CostModelSummary.xls file – ChannelDetail worksheet

#### 2. MVDCosts.xls

a. **Summary** – summarizes the total costs by category from the detailed worksheets listed below.

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1	ADOT Motor Vehicle Division					_			_		_		_					
2	Third Party Cost-Benefit Analysis																	
3	MVD Customer Service Costs																	
4	Summary																	
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	Cost Type	FY2002 To	otal	Tra	nsaction	<b>L</b>												
7	Direct Personnel Costs	ſ																
8	Total Customer Service Personnel	\$ 29,579,2	207	\$	5.5	5												
	Total Direct Support Personnel	\$ 2,482,1		\$	0.4	7												
10	Total Direct Personnel Costs	\$ 32,061,3	374	\$	6.0	2												
	Operating Costs																	
	Total Operating Costs	\$ 9,416,3	391	\$	1.7	7												
	Technology Costs																	
	Total Information Technology Costs	\$ 2,950,3			0.5													
15	Total Telecommunications Costs	\$ 1,460,3			0.2													
16	Total Technology Costs	\$ 4,411,1	42	\$	0.8	2												
	Indirect Costs		_															
	Total MVD Indirect Costs	\$ 1,824,8			0.3													
19	Total ADOT Indirect Costs	\$ 4,428,9			0.8													
	Total State Indirect Costs	\$ 250,1			0.0													
	Total Indirect Costs	\$ 6,503,9	922	\$	1.2	2												
	Building & Equipment Costs																	
	Total Building Costs	\$ 2,074,9		\$	0.3													
	Total Equipment Costs	\$ 1,868,6			0.3													
	Total Building & Equipment Costs	\$ 3,943,6	523	\$	0.7	ł												
	Other Costs	A 0044	100															
	Total Other Costs	\$ 384,0		\$	0.0													
	Total MVD Customer Service Costs	\$ 56,720,5	749 <sup>-</sup>	\$	10.6	,												
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Figure 5 – MVDCosts.xls file – Summary worksheet

b. **Direct** – includes direct Customer Service costs, other direct support personnel costs and other personnel costs.

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ADOT Motor Vehicle Division					
2 Third Party Cost-Benefit Analysis					
3 MVD Customer Service Costs					
4 Direct Personnel Costs					
5					
					Total Allocated
		Total FY2002		Allocation	to Customer
6 Cost Type/Function	FTEs	Salary Costs	Allocation Basis	Percentage	Service
7 Customer Service Personnel					
8 Customer Service Field Office Personnel	869	\$22,653,454	Full	100%	
9 Customer Service Headquarters Personnel	7	\$ 262,908		100%	\$ 262,908
0 ERE on Customer Service Personnel		\$ 6,662,845	Full	100%	\$ 6,662,845
I Total Customer Service Personnel	876	\$29,579,207		100%	\$ 29,579,207
2					
3 Direct Support Personnel					
4 Abandoned Vehicle - ISS	2	\$ 40,170		100%	•,
5 Title Production - ISS	0.5		Full	100%	
	8	\$ 163,008		100%	•,
6 Film Research - ISS		\$ 55,878	Full	100%	\$ 55,878
6 Film Research - ISS 7 Mandatory Insurance - ISS 8 Criminal Traffic - ISS	2.5	\$ 40,752		100%	\$ 40,752

Figure 6 – MVDCosts.xls file – Direct worksheet

c. **Operating** – contains primary operating costs such as plates & tags, driver license credentials, printing, postage, and supplies.

Figure 7 – MVDCosts.xls file – Operating worksheet

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2	Third Party Cost-Benefit Ar				
	MVD Customer Service Cos	sts			
4	Operating Costs				
5					
		Total FY2002		Allocation	Total Allocated to
6	Cost Type/Function	Costs	Allocation Basis	Percentage	Customer Service
7	Operating Costs				
8	Plates & Tabs	\$ 2,295,285	Customer Service Registrations/Grand Total Registrations	84%	\$ 1,924,848
			Customer Service Drivers License Transactions/Grand Total		
9	Drivers License Credentials (	\$ 2,400,000	Drivers License Transactions	99%	\$ 2,377,989
			Total Customer Service Transactions /Grand Total		
10	Printing		Transactions	74%	\$ 1,025,495
11	Postage	\$ 1,300,000	Amount received already allocated to Customer Service	100%	\$ 1,300,000
	с. у.	* 0.000.000	Total Customer Service Transactions /Grand Total	7.497	* 0.700.0K0
12	Supplies	\$ 3,789,277	Transactions	74%	\$ 2,788,058
13	Total Operating Costs	\$ 11,178,323			\$ 9,416,391
14	Total Operating Costs	\$ 11,178,323			\$ 9,410,391
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d. **Technology** – includes programming costs, IT equipment & software depreciation and purchases, external telecommunications costs, and telecommunications depreciation and purchases.

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2 3 4 5	Third Party Cost-Benefit Analysis MYD Customer Service Costs Technology Costs						Â
	Cost Type/Function	Total FY2002 Costs	Allocation Basis	Allocation Percentage	Allocated to Customer Service		
-	Information Technology Costs						
*	Programming	\$ 3,522,535	Total Customer Service Transactions /Grand Total Transactions	74%	\$ 2,591,796		
,	IT Equipment Depreciation (Capitalized Equipment)	\$ 159,219	Customer Service Drivers License Transactions/Grand Total Drivers License Transactions	39%	\$ 157,759		
10	IT Equipment Purchases (Non-Capitalized)	\$ 248,140	Total Customer Service Transactions /Grand Total Transactions	74%	\$ 182,575		
11	Software Depreciation (Capitalized)	\$ 6,335	Total Customer Service Transactions /Grand Total Transactions	74%	\$ 4,705		
12	Software Purchases (Non-Capitalized) Total Information Technology Costs	\$ 18,385 \$ 3,354,674	Total Customer Service Transactions /Grand Total Transactions	74%	\$ 13,527 \$ 2,950,362		
14	Telecommunications Costs						
16	External Telecommunications	\$ 1,842,356	Total Customer Service Transactions /Grand Total Transactions	74%	\$ 1,356,002		
17	Telecommunications Equipment Depreciation (Capitalized Equipment)	\$ 115,110	Total Customer Service Transactions /Grand Total Transactions	74%	\$ 84,695		
18	Telecommunications Equipment Purchases (Non-Capitalized) 70tol Telecommunications Costs	\$ 27,294 \$ 1,985,360	Total Customer Service Transactions /Grand Total Transactions	74%	\$ 20,082 \$ 1,460,780		
20 21 22	Total Technology Costs	\$ 5,940,034			\$ 4,411,142		-
	◀  ► \ Summary / Direct / •	Operating $\lambda$ T	echnology / Indirect / Building	/Other /	Transactions /	•	
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Figure 8 – MVDCosts.xls file – Technology worksheet

e. **Indirect** – includes indirect costs for functions that provide support to MVD Customer Service including at the central MVD, ADOT, and State of Arizona levels.

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	Third Party Cost-Benefit Analysis MVD Customer Service Costs Indirect Costs				
					Total Allocated
		Total FY2002		Allocation	to Customer
	Cost Type/Function	Costs	Allocation Basis	Percentage	Service
	MVD Management	\$ 685,510	Total Customer Service Transactions/Grand Total Transactions	74%	\$ 504.382
	MVD Centralized Administrative Support	\$ 1,311,709	Total Customer Service Transactions/Grand Total Transactions	74%	
	ERE on Above Personnel	\$ 482,928	Total Customer Service Transactions/Grand Total Transactions	74%	
	Total MVD Indirect Costs	\$ 2,480,147			\$ 1,824,832
	ADOT Indirect Costs				
1	Audit & Analysis	\$ 1,638,300	Customer Service Headcount/Total ADOT Headcount	20%	\$ 346,429
	Executive Staff		Customer Service Headcount/Total ABOT Headcount	20%	
	Financial Management Services	\$ 17.030.500	Customer Service Headcount/Total ABOT Headcount	20%	\$ 3,472,749
	Human Resources	\$ 893,600	Customer Service Headcount/Total ADOT Headcount	20%	
	Procurement	\$ 1.060,300	Customer Service Headcount/Total ADOT Headcount	20%	\$ 216,332
,	Training Resources	\$ 430,700	Customer Service Headcount/Total ADOT Headcount	20%	\$ 87,826
,	Total ADOT Indirect Costs	\$ 21,719,900			\$ 4,428,981
1					
2	State Indirect Costs				
3	DOA - General Accounting Office	\$ 332.551	Customer Service Headcount/Total ADOT Headcount	20%	\$ 67,812
4	DOA - State Procurement Office	\$ 47,773	Customer Service Headcount/Total ADOT Headcount	20%	
	DOA - Risk Management Division	\$ 75,083	Customer Service Headcount/Total ADOT Headcount	20%	
5	DOA - Mail Room	\$ .	Customer Service Headcount/Total ABOT Headcount	20%	
2	Attorney General	\$ 203,733	Customer Service Headcount/Total ADOT Headcount	20%	
\$	State Treasurer	\$ 23,461	Customer Service Headcount/Total ADOT Headcount	20%	
•	Public Records - Legislature	\$ 30,150	Customer Service Headcount/Total ADOT Headcount	20%	\$ 18,383
)	Governor's Office - Office of Strategic Planning &	\$ 59,272	Customer Service Headcount/Total ADOT Headcount	20%	\$ 12,086
i		\$ 45,718	Customer Service Headcount/Total ADOT Headcount	20%	\$ 3,323
2		\$ 282,686	Customer Service Headcount/Total ADOT Headcount	20%	
3	DOA - Occupancy	\$ 60,123	Customer Service Headcount/Total ADOT Headcount	20%	\$ 12,260
4	Total State Indirect Costs	\$ 1,226,550			\$ 250,110
5					
6	Total Indirect Costs ◀ ▶ ▶ ∖ Summary / Direct / Operatir	\$ 25,426,597 ig / Technolo	y <b>∖Indirect /</b> Building / Other / Transactions	7	\$ 6,503,922
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Figure 9 – MVDCosts.xls file – Indirect worksheet

f. **Building** – includes building rent & depreciation, maintenance, utilities, and equipment purchases, depreciation, and maintenance.

Figure 10 – MVDCosts.xls file – Building worksheet

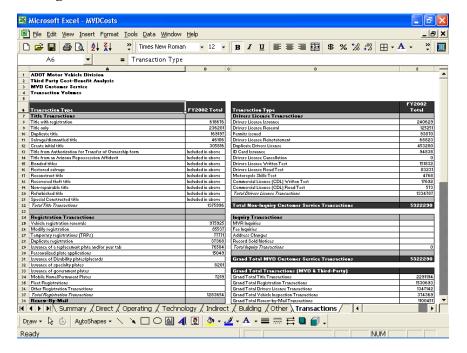
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A       Cost Type         I       ADD Thor Yebic Division         2       Third Party Cost-Benefit Analysis         3       MVD Customer Service Costs         Building Cost       FY2002 Total         Allocation Basis       Allocation         Cost Type       Customer Service Costs         Building Costs       Customer Service Headount/Total MVD Headount (includes         Building Depreciation       \$ 105,700         3       Building Costs         Customer Service Headount/Total MVD Headount (includes         Building Costs       Customer Service Headount/Total MVD Headount         1       Janicotal Building Penet         3       MID Customer Service Headount/Total MVD Headount         1       Janicotal Building Penet         3       Stotemer Service Headount/Total MVD Headount         9       Stotemer Service Headount/Total MVD Headount         <					
-			n	n	F -
2 3 4	ADOT Motor Yehicle Division Third Party Cost-Benefit Analysis MYD Customer Service Costs				
		FY2002 Total	Allocation Basis	Percentage	Customer Service
		\$ 1125.710		58%	\$ 655.561
10					
11	Landscaping	\$ 55,001	Customer Service Headcount/Total MVD Headcount	58%	\$ 32,030
12	Utilities	\$ 987,420	Customer Service Headcount/Total MVD Headcount	58%	\$ 575,027
13	Total Building Costs	\$ 3,563,121			\$ 2,074,994
14	Equipment Costs				
15	Equipment Lease/Rental	\$ 1,367,805	Customer Service Headcount/Total MVD Headcount	58%	\$ 796,545
16		\$ 33,154	Customer Service Headcount/Total MVD Headcount	58%	\$ 19,307
17	Equipment Purchases (Non-Capital)	\$ 765,956	Customer Service Headcount/Total MVD Headcount	58%	\$ 446,057
18		\$ 1,041,841	Customer Service Headcount/Total MVD Headcount	58%	\$ 606,719
		\$ 3,208,757			\$ 1,868,629
21 22 23 24 25 26	Total Building & Equipment Costs	\$ 6,771,877			\$ 3,943,623
<b>€</b>	↓ ► ► Summary / Direct / Op	- ^	ology / Indirect ) Building / Other / Transactions 【 ② ◇ ・ 2 ・ A ・ ☰ === 云 □ ◎ ・	7  •	•
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g. **Other** – includes other costs, such as advertising, insurance, interest, and miscellaneous costs.

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-	ADOT Motor Vehicle Division		-	-	_	_	
	Third Party Cost-Benefit Analysis						
	MVD Customer Service Costs						
	Other Costs						
5							
						Total	
	<i>z</i> . <b>z</b>				Allocation	Allocated to	
	Cost Type	-, FY	2002 Total	Allocation Basis	Percentage	Customer	
'	Other Costs			Total Customer Service			
				Transactions/Grand Total			
,	Advertising	\$	225 818	Transactions	74%	\$ 166,151	
'	Automing	-	225,010	Total Customer Service	7470	φ 100,151	
				Transactions/Grand Total			
,	Insurance	\$	7,324		74%	\$ 5,389	
				Total Customer Service			
				Transactions/Grand Total			
0	Interest Expense	\$	11,980	Transactions	74%	\$ 8,815	
				Total Customer Service			
				Transactions/Grand Total			
	Other Miscellaneous Costs	\$	276,910	Transactions	74%	\$ 203,744	
2	Total Other Costs	ŝ	522,032			\$ 384.098	
3			322,032			<b>» 384,098</b>	

Figure 11 – MVDCosts.xls file – Other worksheet

h. **Transactions** – includes detailed transaction counts grouped by Title transactions, Registration Transactions, Renew-by-Mail transactions, Vehicle Inspection transactions, Drivers License transactions, and Inquiry transactions. Headcount data is also included.





#### 3. ThirdPartyCosts.xls

a. **Summary** – summarizes the total costs by category from the detailed worksheets listed below.

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1	ADOT Motor Vehicle Division				- -				-							•		-
2	Third Party Cost-Benefit Analysis																	
3	Third Party Costs																	
4	Summary																	
5						_												
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	Cost Type	FY2002	Total	Trans	saction													
	Direct Personnel Costs																	
8	Total Competitive Government Personnel		794,035	\$	0.9													
9	Total Direct Support Personnel Total Direct Personnel Costs	\$	257,189		0.13													
11	Operating Costs	\$ 4	2,051,224	3	1.07	-												
	Total Operating Costs	\$	1.937.518		1.0													
13	Technology Costs	\$	1,007,010	*	1.0	4												
14	Total Information Technology Costs	\$	1,044,921	4	0.55													
15	Total Telecommunications Costs	\$	524,581		0.2													
	Total Technology Costs		569,502		0.8													
17	Indirect Costs																	
18	Total MVD Indirect Costs	\$	655,315	\$	0.34	F .												
19	Total ADOT Indirect Costs	\$	252,765		0.1	3												
20	Total State Indirect Costs	\$	14,274	\$	0.0													
21		\$	922,354	\$	0.44	<u>1</u>												
	Building & Equipment Costs					4.												
	Total Building Costs	\$	118,421		0.0													
	Total Equipment Costs Total Building & Equipment Costs	\$	106,644		0.0													
25	Other Costs	\$	225,065	\$	0.1													
20	Total Other Costs	\$	137,933	+	0.07													
	Third-Party Fees	*	101,000	*	0.0	1.												
	Total Third Party Fees	\$ 11	382,322	\$	5.9													
30	Total Third Parte Costs		225,918		9.54													
31																		
32																		-
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Figure 13 – ThirdPartyCosts.xls file – Summary worksheet

b. **Direct** – includes direct costs for MVD personnel that support the Third Party program, other direct support personnel costs and other personnel costs.

Figure 14 – ThirdPartyCosts.xls file – Direct worksheet

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A ADOT Motor Vehicle Division	B	0	D	E	F	G H I J -
2 Third Party Cost-Benefit Analysis 3 Third Party Costs 4 Direct Personnel Costs 5	5					Ī
		Total FY2002		ion	Table Allandad	
Cost Type/Function	FTE	FT2002 Salary Costs	Allocation Basis	Percen tage	Total Allocated to Third Parte	
7 Competitive Government	Y TES	Salary Costs	This out of Dasis	cage	to rund raity	
* Third Party Auditors	7	\$ 270,578	Full	100%	\$ 270,578	
<ul> <li>Third Party QA</li> </ul>		\$ 494,251		100%		
10 Third Party D/L		\$ 364,514		100%		
11 Third Party T&R		\$ 162,094		100%		
2 CGP Admin	3.5		Full	100%		
3 ERE on Above CGP Personnel 4 Total Competitive Government		\$ 371,665 \$ 1,794,035	Full	100%		
4 Total Competitive Government	56.5	\$ 1,794,035		100%	\$ 1,794,035	
Birect Support Personnel	_					
7 Renew-bu-Mail - ISS	2	\$ 46,222	Full	100%	\$ 46,222	
B Out-of-State Desk - ISS	1	\$ 26,205		100%		
Comm Unit - ISS	2	\$ 47,048		100%		
Training - ISS		\$ 52,608	Full	100%	\$ 52,608	
1 Warehouse - CSS	1	\$ 24,940		100%		
2 Plate Positions - CSS	0.2			100%		
3 ERE on Above Supporting Personnel		\$ 53,281	Full	100%	\$ 53,281	
4 Total Direct Support Personnel	7.7	\$ 257,189		100%	\$ 257,189	
5 Other Personnel Costs				011		
6 Temporary Personnel 7 Education & Training	+		CGP Headcount/Total MVD Headcount CGP Headcount/Total MVD Headcount	3%	\$ 8,256 \$ 6,079	
7 Education & Training 8 Travel Expenses	-		CGP Headcount/Total MVD Headcount	3%	\$ 6,079	
Other	-		CGP Headcount/Total MVD Headcount	3%		
Total Other Personnel Costs	+	\$ 1,248,184	Con Treascont Total MPD Headcoult		\$ 41,484	
1					* 10,101	
2 Total Direct Personnel Costs	64.2	\$ 3,299,408			\$ 2,092,708	
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c. **Operating** – contains primary operating costs such as plates & tags, driver license credentials, printing, postage, and supplies.

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	A	В	С	D	E F
2	ADOT Motor Vehicle Division Third Party Cost-Benefit Analysis Third Party Costs Operating Costs				
	Cost Type/Function	Total FY2002 Costs	Allocation Basis	Allocation Percentage	Total Allocated to Third Parts
	Operating Costs	Ť			
	Plates & Tabs	\$ 2,295,285	Third Party Registrations/Grand Total Registrations	16%	\$ 370.437
	Drivers License Credentials (DDL)	\$ 2,400,000	Third Party Drivers License Transactions/Grand Total Drivers License Transactions	1%	\$ 22,011
,	Printing	\$ 1,393,761	Total Third Party Transactions/Grand Total Transactions	26%	\$ 368,266
	Postage	\$ 175,585	ServiceArizona Renewals & Dup DL x Carrier Route Automation Postage Rates \$0.275/ounce	100%	\$ 175,585
	Supplies	\$ 3,789,277	Total Third Party Transactions/Grand Total Transactions	26%	\$ 1,001,219
ŀ	Total Operating Costs	\$ 10,053,908			\$ 1,937,518
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Figure 15 – ThirdPartyCosts.xls file – Operating worksheet

d. **Technology** – includes programming costs, IT equipment & software depreciation and purchases, external telecommunications costs, and telecommunications depreciation and purchases.

Figure 16 – ThirdPartyCosts.xls file – Technology worksheet

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ADOT Motor Vehicle Division					
Third Party Cost-Benefit Analysis	5				
MVD Customer Service Costs					
Technology Costs					
		Total FY2002		Allocation	Total Allocated to
Cost Type/Function		Costs	Allocation Basis	Percentage	Customer Service
Information Technology Costs					
			Total Third Party Transactions /Grand Total		
Programming		\$ 3,522,535	Transactions	26%	\$ 930,739
			Total Third Party Transactions /Grand Total		
IT Equipment Depreciation (Capitalized B	Equipment)	\$ 159,219	Transactions	26%	\$ 42,069
			Total Third Party Transactions /Grand Total		
IT Equipment Purchases (Non-Capitalize	ed)	\$ 248,140	Transactions	26%	\$ 65,565
			Total Third Party Transactions /Grand Total		
Software Depreciation (Capitalized)		\$ 6,395	Transactions	26%	\$ 1,690
			Total Third Party Transactions /Grand Total		
Software Purchases (Non-Capitalized)			Transactions	26%	•
Total Information Technology Costs		\$ 3,954,674			\$ 1,044,92
Telecommunications Costs					
			Total Third Party Transactions /Grand Total		
External Telecommunications	desta a	\$ 1,842,956	Transactions	26%	\$ 486,954
Telecommunications Equipment Depres	station		Total Third Party Transactions /Grand Total		
(Capitalized Equipment) Telecommunications Equipment Purcha		\$ 115,110	Transactions Total Third Party Transactions /Grand Total	26%	\$ 30,415
Capitalized)	-novij zest	\$ 27,294	Total Inite Party Transactions rearand Total Transactions	26%	\$ 7,212
Capitalized) Total Telecommunications Costs		\$ 27,294 \$ 1,985,360	Transactions	26%	\$ 7,212
Total Telecommunications Losts		a 1,360,360			<ul> <li>a 024,58</li> </ul>
Total Technology Costs		\$ 5,940,034			\$ 1,569,502
Total Technology Losts		\$ 3,340,034			1,363,502
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e. **Indirect** – includes indirect costs for functions that provide support to MVD personnel that support the Third Party Program including at the central MVD, ADOT, and State of Arizona levels.

	ype/Function	12     12     B     I	<b>S</b> % *.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .	E Total Allocated to Third Party
A A ADDT Motor Yakick Diricios Third Party Cost-Beactin Asalysis Third Party Cost-Beactin Asalysis Indirect Costs Indirect Costs Costs MYD Indirect Costs MYD Indirect Costs MYD Mangenat MYD Mangenat Personal De Ro n. Abov Parsonal	Frequencies           Total FY2002           Costs           1           685,510           1,11,709           1           4,82,326	Allocation Basis Total Third Party Transactions/Grand Total Transactions Total Third Party Transactions/Grand Total Transactions	Allocation Percentage 26%	Total Allocated to Third Party
A A ADDT Motor Yakick Diricios Third Party Cost-Beactin Asalysis Third Party Cost-Beactin Asalysis Indirect Costs Indirect Costs Costs MYD Indirect Costs MYD Indirect Costs MYD Mangenat MYD Mangenat Personal De Ro n. Abov Parsonal	Frequencies           Total FY2002           Costs           1           685,510           1,11,709           1           4,82,326	Allocation Basis Total Third Party Transactions/Grand Total Transactions Total Third Party Transactions/Grand Total Transactions	Allocation Percentage 26%	Total Allocated to Third Party
ADDT Mater Valiel Dirision Third Party Costo Indirect Costs Cost Type Costo Indirect Costs MYD Indirect Costs MYD Indirect Costs MYD Claritision Administrative Support ERG on Alow Personal	Costs \$ 685,510 \$ 1,311,703 \$ 482,928	Allocation Basis Total Third Party Transactions/Grand Total Transactions Total Third Party Transactions/Grand Total Transactions	Allocation Percentage 26%	Total Allocated to Third Party
MVD Indirect Costs MVD Management MVD Centralized Administrative Support ERE on Above Personnel	Costs \$ 685,510 \$ 1,311,703 \$ 482,928	Total Third Party Transactions/Grand Total Transactions Total Third Party Transactions/Grand Total Transactions	Percentage 26%	Party
MVD Indirect Costs MVD Management MVD Centralized Administrative Support ERE on Above Personnel	\$ 685,510 \$ 1,311,709 \$ 482,928	Total Third Party Transactions/Grand Total Transactions Total Third Party Transactions/Grand Total Transactions	26%	
MVD Management MVD Centralized Administrative Support ERE on Above Personnel	\$ 1,311,703 \$ 482,328	Total Third Party Transactions/Grand Total Transactions		\$ 181,128
MVD Centralized Administrative Support ERE on Above Personnel	\$ 1,311,703 \$ 482,328	Total Third Party Transactions/Grand Total Transactions		3 181,128
ERE on Above Personnel	\$ 482,928			\$ 346,585
			26%	\$ 346,585 \$ 127,60
I TOTAL IT IS MANAGE WORK	<ul> <li>2,400,141</li> </ul>		204	\$ 655.31
				• • • • • • • • • • • • • • • • • • • •
ADOT Indirect Costs				
Audit & Analysis	\$ 1.698.300	CGP Headcount/Total ADOT Headcount	13	\$ 19.77
Executive Staff		CGP Headcount/Total ADOT Headcount	12	\$ 7,04
Financial Management Services	\$ 17,030,500	CGP Headcount/Total ABOT Headcount	12	\$ 198,193
Human Resources	\$ 893,600	CGP Headcount/Total ABOT Headcount	12	\$ 10,33
Procurement	\$ 1,060,300	CGP Headcount/Total ADOT Headcount	12	
Training Resources	\$ 430,700	CGP Headcount/Total ADOT Headcount	12	\$ 5,01
Total ADOT Indirect Costs	\$ 21,713,300		7%	\$ 252,76
State Indirect Costs				
DOA - General Accounting Office	\$ 332,551		13	
DOA - State Procurement Office	\$ 47,773	CGP Headcount/Total ADOT Headcount	14	
DOA - Risk Management Division	\$ 75,083	CGP Headcount/Total ADOT Headcount CGP Headcount/Total ADOT Headcount	14	
DOA - Mail Room	s .		2	
Attorney General State Treasurer	\$ 203,733 \$ 23,461	CGP Headcount/Total AD0T Headcount CGP Headcount/Total AD0T Headcount	12	
State Freasurer Public Records - Legislature		CGP Headcount/Total ADUT Headcount CGP Headcount/Total ADUT Headcount	12	
Governor's Office - Office of Strategic Planning &			14	
Governor's Office - Office of Equal Opportunity	\$ 45,718	CGP Headcount/Total ADOT Headcount	13	
Governor's Office - Office for Excellence in Government		CGP Headcount/Total ADOT Headcount	18	
DOA - Occupancy	\$ 60,123	CGP Headcount/Total ADOT Headcount	18	
Total State Indirect Costs	\$ 1,226,550			\$ 14,274
Total Indirect Costs	\$ 25,426,597	) Indirect / Building /   •		\$ 922,354
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Figure 17 – ThirdPartyCosts.xls file – Indirect worksheet

f. **Building** – includes building rent & depreciation, maintenance, utilities, and equipment purchases, depreciation, and maintenance.

Figure 18 – ThirdPartyCosts.xls file – Building worksheet

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8	Building Depreciation	\$	1,125,710	CGP I	Headc	ount	Tota	1 M V	DH	lead	lcour	ıt					3%	\$	3	7,413	
9	Building Rent	\$	414,416	CGP I	Headc	ount	Tota	1 M V	DH	lead	lcour	ıt							1	3,773	
10	Janitorial & Building Repair/Maintenance	\$	980,574						_									\$		2,590	
Ш	Landscaping	\$			Headc											_	3%	\$		1,828	-
12	Utilities	\$	987,420	CGP I	Headc	ount	Tota	1 M V	DH	lead	lcour	ıt					3%	\$		2,817	
13	Total Building Costs	\$	3,563,121															\$	11	8,421	
14	Equipment Costs																				4
15	Equipment Lease/Rental	\$	1,367,805	CGP I	Headc	ount	Tota	1 M V	DH	lead	lcour	ıt					3%	\$	4	5,459	
	Equipment Depreciation (Capitalized						_														
	Equipment)	\$	33,154						_									\$		1,102	
17	Equipment Purchases (Non-Capital)	\$	,		Headc															5,457	-
18	Equipment Repair & Maintenance	\$		CGP 1	Headc	ount	Tota	1 M V	DĤ	lead	lcour	ıt	_				3%	· ·		4,626	
19	Total Equipment Costs	\$	3,208,757		_	_			_	_	_		_			_	_	\$	10	6,644	-
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21 77	Total Building & Equipment Costs	\$	6,771,877															\$	- 22	5,065	
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g. Other – includes other miscellaneous costs.

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	Third Party Cost-Benefit Analysis					
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4	Other Costs					
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6	Cost Type	FY2002 Total	Allocation Basis	Percentage	Third Party	
	Other Costs			Tereentage	minutary	
			Total Third Party			
			Transactions/Grand Total			
8	Advertising	\$ 225,818		26%	\$ 59,667	
			Total Third Party			
			Transactions/Grand Total			
9	Insurance	\$ 7,324		26%	\$ 1,935	
			Total Third Party Transactions/Grand Total			
10	Interest Expense	\$ 11.980	Transactions	26%	\$ 3.165	
		11,000	Total Third Party	2070		
			Transactions/Grand Total			
н	Other Miscellaneous Costs	\$ 276,910	Transactions	26%	\$ 73,166	
12						
13	Total Other Costs	\$ 522,032			\$ 137,933	
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Figure 19 – ThirdPartyCosts.xls file – Other worksheet

h. **ThirdPartyFees** – includes retainage of 2% of VLT, transaction fee retainage, and credit card fee reimbursements.

Figure 20 – ThirdPartyCosts.xls file – ThirdPartyFees worksheet

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	A6 <b>–</b> Cost Type/Function										
	A		В			С	D	)		E	Ī
1	ADOT Motor Vehicle Division										
2	Third Party Cost-Benefit Analysis										
3	Third Party Costs										
4	Third Party Fees										
5		-									_
		T	otal FY	2002			Alloca	ation		tal Alloc	
6	Cost Type/Function		Cost	5	Allo	cation Basis	Percer	ntage	to	Third P	arty
7	Third Party Fees										
8	Retainage (2% of VLT)	\$		1,119				100%		6,571	.,119
9	Registration Fee Retainage	\$		3,230				100%		1,513	,230
10	Title Fee Retainage	\$		5,406	-			100%	- ·		5,406
Ш	Driver License Fee Retainage	\$		0,727	Full			100%			),727
12	Inquiry Fees Retainage	\$		7,497	-			100%	-		7,497
13	Non-Resident Permit Retainage	\$		1,105	-			100%	-		,105
14	Credit Card Fee Reimbursment	\$	2,14	3,237	Full			100%	\$	2,143	,237
15											
16	Total Third Party Fees	\$	11,38	2,322					\$	11,382	,322
17											
18	NA Comment / Direct / Operating / Technolog		Indianat	/ nut	ling /	Other \ ThirdD-	utuFoo-	/ Transse	tion	714	
	Summary / Direct / Operating / Technolog			~			-		uons		
Dra			<u> •</u> • <u>•</u>	• A			•				
Read	Ready NUM NUM										

i. **Transactions** – includes detailed transaction counts grouped by Title transactions, Registration Transactions, Service Arizona transactions, Vehicle Inspection transactions, Drivers License transactions, and Inquiry transactions. Headcount data is also included.

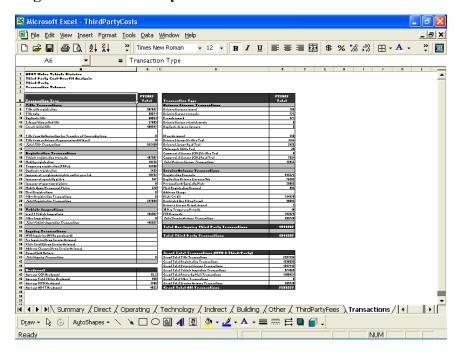


Figure 21 – ThirdPartyCosts.xls file – Transactions worksheet

#### Using the Model

To use the model, first copy the model to a single subdirectory of your computer or network.

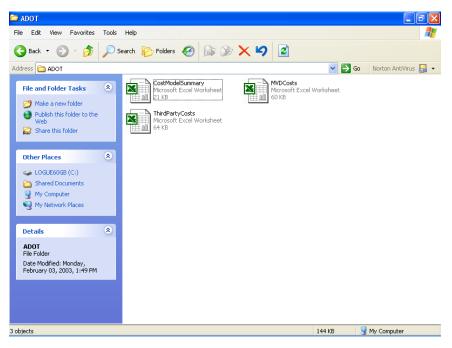
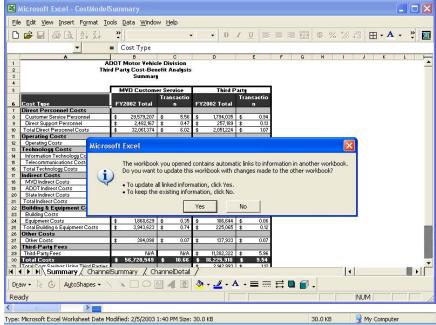


Figure 22 – Cost Model files

Then open the CostModelSummary.xls workbook. When prompted if you wish to update links, click on "Yes." Then open up the Cost Model-MVD Customer Service Costs.xls and Cost Model-Third Party Costs.xls workbooks and also click on "Yes" when prompted to update the links. The model is then fully ready for use and review. Click on the tags on the bottom left portion of the screen to access the different worksheets.



**Figure 23 – Opening files** 

Note that all costs are allocated to MVD Customer Service or Third Party. Depending on the cost type, the allocation is either by transaction counts or by headcount. Each detailed worksheet lists the allocation method used and shows the allocation percentage, which is calculated based upon formulas using the appropriate transaction or headcount totals from the Transactions worksheet.

#### Updating the Model

Updates to the model would typically be made in three different situations:

1. Updating for New Period – for example if the analysis were to be updated for a different fiscal year, such as FY2003, or other period. To perform this update, all of the cost and transaction data need to be gathered from the various sources, as listed in the Assumptions, and then the data need to be entered in the appropriate cells (currently the FY2002 Cost cell for each cost item). No changes need to be made to the Allocation Basis, Allocation Percentage, or Total Amount Allocated cells. Transaction counts must all be reentered in the appropriate cells in the Transactions worksheets. Excel automatically recalculates all worksheets and all links.

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C8							
A	В	с	D	E	F		
ADOT Motor Vehicle Division							
2 Third Party Cost-Benefit Analysis		for a new fiscal					
3 MVD Customer Service Costs		year, enter the appropriate					
4 Direct Personnel Costs		amounts in the					
5		cells shown below.					
					Total Allocated		
		Total FY2002		Allocation	to Customer		
6 Cost Type/Function	FTEs	Salary Costs	Allocation Basis	Percentage	Service		
7 Customer Service Personnel			ļ				
8 Customer Service Field Office Personnel	869	22653454.03		100%	,		
9 Customer Service Headquarters Personnel	7	\$ 262,908		100%	\$ 262,908		
10 ERE on Customer Service Personnel		\$ 6,662,845	Full	100%			
II Total Customer Service Personnel	876	\$ 29,579,207		100%	\$ 29,579,207		
12							
13 Direct Support Personnel							
14 Abandoned Vehicle - ISS	2	\$ 40,170		100%			
15 Title Production - ISS	0.5	• • • • • • •	Full	100%	• • • • • •		
16 Film Research - ISS	8	\$ 163,008		100%			
17 Mandatory Insurance - ISS	2.5	\$ 55,878		100%	+,		
18 Criminal Traffic - ISS	2	\$ 40,752		100%	\$ 40,752		
▲ ▲ ▶ ▶ ∧ Summary ) Direct / Operating / Technology		~ ~ ~	- ^ ^			•	
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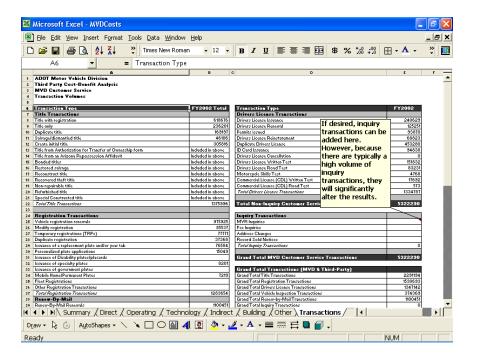
Figure 24 – Updating Costs for New Period

2. Adding Additional Cost Items – If additional cost items are to be added, then go to the appropriate worksheet for the cost type, insert a row at the appropriate place, and copy the previous row and update the data. Depending on the allocation basis for the new cost item, you may need to change the Excel formula that points to the appropriate cells in the Transactions worksheet. The remainder of the calculations should be automatic.

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	A6 -	= Cost Type				•				
	A .	<b>–</b> соястура	C	D	E	F -				
1	ADOT Motor Vehicle Divis		5	5	Ľ	<b>_</b>				
2	Third Party Cost-Benefit Analysis									
3	MVD Customer Service Co									
4	Operating Costs									
5		_								
		Total FY2002		Allocation	Total Allocated to					
6	Cost Type/Function	Costs	Allocation Basis	Percentage	Customer Service					
	Operating Costs	I .			•					
8	Plates & Tabs	\$ 2,295,285		84%	\$ 1,924,848					
			Customer Service Drivers License							
9	Drivers License Credentials (			99%	\$ 2,377,989					
10	Printing		Total Customer Service Transactions	74%						
11	Postage		Amount received already allocated to Total Customer Service Transactions	74%	• -,,					
12	Supplies	3,789,211	Total Customer Service Transactions	/4%	\$ 2,788,058					
13 14	Total Operating Costs	\$ 11.178.323			\$ 9.416.391					
19	Total Operating Costs	\$ 11,170,323			\$ 9,410,391					
16										
17		To add	new cost items, insert a							
18		row an	d copy the previous row							
19		to obta	in the formulas and							
20		enter t	he new data. You may							
21			change the allocation							
22		basis.								
23		Dasis								
24										
25 •	I ► N\ Summary / Direc	t ). Operating /	Technology / Indirect / Building / Ot	her / Transaction	s / 🚺	•				
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Der	adv				NU					

Figure 25 – Adding Additional Cost Items

3. Using Inquiry Transactions in Transaction Counts – depending on the purpose of the analysis, Inquiry Transactions may be included in the total transaction counts. Inquiry transactions include MVR Inquiries, Fee Inquiries, Address Changes, and Record Sold Notices. Since these inquiry transactions can be high volume, inclusion may significantly alter the results. If desired, the appropriate inquiry transaction totals can be entered in the respective Transaction worksheets in both workbooks. If inquiry transactions are not to be included, then those cells can be erased, but not deleted.



#### Figure 26 – Using Inquiry Transactions in Transaction Counts

## **APPENDIX E - COST MODEL SUMMARY FORMULAS**

	А	В	С
1	Summary		
2			
3		MVD Cust	omer Service
4	Cost Type	FY2002 Total	Cost Per Transaction
5	Direct Personnel Costs		
6	Customer Service Personnel	='C:\ADOT\[MVDCosts.xls]Summary'!B8	='C:\ADOT\[MVDCosts.xls]Summary'!C8
7	Direct Support Personnel	='C:\ADOT\[MVDCosts.xls]Summary'!B9	='C:\ADOT\[MVDCosts.xls]Summary'!C9
8	Total Direct Personnel Costs	='C:\ADOT\[MVDCosts.xls]Summary'!B10	='C:\ADOT\[MVDCosts.xls]Summary'!C10
9	Operating Costs		
10	Operating Costs	='C:\ADOT\[MVDCosts.xls]Summary'!B12	='C:\ADOT\[MVDCosts.xls]Summary'!C12
11	Technology Costs		
12	Information Technology Costs	='C:\ADOT\[MVDCosts.xls]Summary'!B14	='C:\ADOT\[MVDCosts.xls]Summary'!C14
13	Telecommunications Costs	='C:\ADOT\[MVDCosts.xls]Summary'!B15	='C:\ADOT\[MVDCosts.xls]Summary'!C15
14	Total Technology Costs	='C:\ADOT\[MVDCosts.xls]Summary'!B16	='C:\ADOT\[MVDCosts.xls]Summary'!C16
15	Indirect Costs		
16	MVD Indirect Costs	='C:\ADOT\[MVDCosts.xls]Summary'!B18	='C:\ADOT\[MVDCosts.xls]Summary'!C18
17	ADOT Indirect Costs	='C:\ADOT\[MVDCosts.xls]Summary'!B19	='C:\ADOT\[MVDCosts.xls]Summary'!C19
18	State Indirect Costs	='C:\ADOT\[MVDCosts.xls]Summary'!B20	='C:\ADOT\[MVDCosts.xls]Summary'!C20
19	Total Indirect Costs	='C:\ADOT\[MVDCosts.xls]Summary'!B21	='C:\ADOT\[MVDCosts.xls]Summary'!C21
20	Building & Equipment Costs		
21	Building Costs	='C:\ADOT\[MVDCosts.xls]Summary'!B23	='C:\ADOT\[MVDCosts.xls]Summary'!C23
22	Equipment Costs	='C:\ADOT\[MVDCosts.xls]Summary'!B24	='C:\ADOT\[MVDCosts.xls]Summary'!C24
23	Total Building & Equipment Costs	='C:\ADOT\[MVDCosts.xls]Summary'!B25	='C:\ADOT\[MVDCosts.xls]Summary'!C25
24	Other Costs		
25	Other Costs	='C:\ADOT\[MVDCosts.xls]Summary'!B27	='C:\ADOT\[MVDCosts.xls]Summary'!C27
26	Third-Party Fees		
27	Third-Party Fees	N/A	. N/A
28		=B8+B10+B14+B19+B23+B25	=C8+C10+C14+C19+C23+C25
29	Total Cost Savings Using Third Parties		

# Table 24 – Formulas for CostModelSummary.xls worksheet (columns A – C)

	D	E
1		Ľ
2		
-	Third Party	
5	Tintu Tarty	
4	FY2002 Total	Cost Per Transaction
5		
6	='C:\ADOT\[ThirdPartyCosts.xls]Summary'!B8	='C:\ADOT\[ThirdPartyCosts.xls]Summary'!C8
7	='C:\ADOT\[ThirdPartyCosts.xls]Summary'!B9	='C:\ADOT\[ThirdPartyCosts.xls]Summary'!C9
8	='C:\ADOT\[ThirdPartyCosts.xls]Summary'!B10	='C:\ADOT\[ThirdPartyCosts.xls]Summary'!C10
9		
10	='C:\ADOT\[ThirdPartyCosts.xls]Summary'!B12	='C:\ADOT\[ThirdPartyCosts.xls]Summary'!C12
11		
12	='C:\ADOT\[ThirdPartyCosts.xls]Summary'!B14	='C:\ADOT\[ThirdPartyCosts.xls]Summary'!C14
13	='C:\ADOT\[ThirdPartyCosts.xls]Summary'!B15	='C:\ADOT\[ThirdPartyCosts.xls]Summary'!C15
14	='C:\ADOT\[ThirdPartyCosts.xls]Summary'!B16	='C:\ADOT\[ThirdPartyCosts.xls]Summary'!C16
15		
16	='C:\ADOT\[ThirdPartyCosts.xls]Summary'!B18	='C:\ADOT\[ThirdPartyCosts.xls]Summary'!C18
17	='C:\ADOT\[ThirdPartyCosts.xls]Summary'!B19	='C:\ADOT\[ThirdPartyCosts.xls]Summary'!C19
18	='C:\ADOT\[ThirdPartyCosts.xls]Summary'!B20	='C:\ADOT\[ThirdPartyCosts.xls]Summary'!C20
19	='C:\ADOT\[ThirdPartyCosts.xls]Summary'!B21	='C:\ADOT\[ThirdPartyCosts.xls]Summary'!C21
20		
21	='C:\ADOT\[ThirdPartyCosts.xls]Summary'!B23	='C:\ADOT\[ThirdPartyCosts.xls]Summary'!C23
22	='C:\ADOT\[ThirdPartyCosts.xls]Summary'!B24	='C:\ADOT\[ThirdPartyCosts.xls]Summary'!C24
23	='C:\ADOT\[ThirdPartyCosts.xls]Summary'!B25	='C:\ADOT\[ThirdPartyCosts.xls]Summary'!C25
24		
25	='C:\ADOT\[ThirdPartyCosts.xls]Summary'!B27	='C:\ADOT\[ThirdPartyCosts.xls]Summary'!C27
26		
27	='C:\ADOT\[ThirdPartyCosts.xls]Summary'!B29	='C:\ADOT\[ThirdPartyCosts.xls]Summary'!C29
-	=D8+D10+D14+D19+D23+D25+D27	=E8+E10+E14+E19+E23+E25+E27
29	='C:\ADOT\[ThirdPartyCosts.xls]Transactions'!\$E\$34*(C28-E28)	=C28-E28

# Table 25 – Formulas for CostModelSummary.xls worksheet (columns D – E)

## **APPENDIX F - MVD COST MODEL FORMULAS**

# Table 26 – Formulas for MVDCosts.xls file, Summary worksheet

	A	В	С
1	MVD Customer Service Costs		
2	Summary		
3			
4	Cost Type	FY2002 Total	Cost Per Transaction
5	Direct Personnel Costs		
6	=Direct!A9	=Direct!F9	=B6/Transactions!\$E\$29
7	=Direct!A30	=Direct!F30	=B7/Transactions!\$E\$29
8	=Direct!A38	=SUM(B6:B7)	=B8/Transactions!\$E\$29
9	Operating Costs		
10	=Operating!A12	=Operating!E12	=B10/Transactions!\$E\$29
11	Technology Costs		
12	=Technology!A11	=Technology!E11	=B12/Transactions!\$E\$29
13	=Technology!A17	=Technology!E17	=B13/Transactions!\$E\$29
14	Total Technology Costs	=B12+B13	=C12+C13
15	Indirect Costs		
16	=Indirect!A9	=Indirect!E9	=B16/Transactions!\$E\$29
17	=Indirect!A18	=Indirect!E18	=B17/Transactions!\$E\$29
18	=Indirect!A32	=Indirect!E32	=B18/Transactions!\$E\$29
19	=Indirect!A34	=SUM(B16:B18)	=B19/Transactions!\$E\$29
20	Building & Equipment Costs		
21	=Building!A11	=Building!E11	=B21/Transactions!\$E\$29
22	=Building!A17	=Building!E17	=B22/Transactions!\$E\$29
23	=Building!A19	=Building!E19	=B23/Transactions!\$E\$29
24	Other Costs		
25	=Other!A11	=Other!E11	=B25/Transactions!\$E\$29
26	Total MVD Customer Service Costs	=B8+B10+B14+B19+B23+B25	=C8+C10+C14+C19+C23+C25

	A	В	С	D	E	F
1	MVD Customer Service Costs					
	Direct Personnel Costs					
3						
-						Total Allocated to
4	Cost Type/Function	FTEs	Total FY2002 Costs	Allocation Basis	Allocation Percentage	Customer Service
	Customer Service Personnel	TTL3	Total F 12002 Costs	Anocation Dasis	Anocation Fereentage	Customer Service
6	Customer Service Field Office Personnel	869	22653454.03	Full	1	=C6*E6
7	Customer Service Headquarters Personnel	7	262907.89	Full	1	=C0*E0 =C7*E7
8	ERE on Customer Service Personnel	'	6662844.81	Full	1	=C8*E8
	Total Customer Service Personnel	=SUM(B6:B8)	=SUM(C6:C8)	i un	1	=SUM(F6:F8)
10	Total Customer Service Tersonnei	-30M(B0.B8)	-30M(C0.C8)		1	-5014(10.18)
	Direct Support Personnel					
12	Abandoned Vehicle - ISS	2	40170	Full	1	=C12*E12
12	Title Production - ISS	0.5	10901	Full	1	=C12*E12 =C13*E13
14	Film Research - ISS	8	163008	Full	1	=C14*E14
15	Mandatory Insurance - ISS	2.5	55878	Full	1	=C15*E15
16	Criminal Traffic - ISS	2.5	40752	Full	1	=C16*E16
17	Microfilm - ISS	4	81504	Full	1	=C17*E17
18	Civic Traffic - ISS	2	40752	Full	1	=C18*E18
19	Medical Review - ISS	1	25590	Full	1	=C19*E19
20	Training - ISS	14	491008	Full	1	=C20*E20
21	Technical Support - ISS	20	492860	Full	1	=C21*E21
22	Out-of-State Desk - ISS	3	78615	Full	1	=C22*E22
23	Renew-by-Mail - ISS	1	23111	Full	- 1	=C23*E23
24	Audit - TSG	1	38654	Full	1	=C24*E24
25	Warehouse - CSS	5.3	132182	Full	1	=C25*E25
26	Plate Positions - CSS	0.9	30982	Full	1	=C26*E26
27	Dishonored checks - CGP	2.8	72677	Full	1	=C27*E27
28	Motor Vehicle Enforcement Services	4	104404	Full	1	=C28*E28
29	ERE on Direct Support Personnel		=C8/(C6+C7)*(SUM(C12:	Full	1	=C29*E29
30	Total Direct Support Personnel	=SUM(B12:B29)	=SUM(C12:C29)		1	=SUM(F12:F29)
31	Other Personnel Costs		· · · · · ·			
32	Temporary Personnel		248414	Headcount	=Transactions!\$E\$43/Transaction	=C32*E32
33	Education & Training		182922	Headcount	=Transactions!\$E\$43/Transaction	=C33*E33
34	Travel Expenses		395608	Headcount	=Transactions!\$E\$43/Transaction	=C34*E34
	0.1			TT 1 .	m .: 100010.00 m	C2.64722.6
35 36	Other Tradical Design of Control		421240	Headcount	=Transactions!\$E\$43/Transaction	
36	Total Other Personnel Costs		=SUM(C32:C35)		1	=SUM(F32:F35)
<u> </u>		D0 / D20	C0. (20. (2))			F0 · F20 · F2(
30	Total Direct Personnel Costs	=B9+B30	=C9+C30+C36			=F9+F30+F36

# Table 27 – Formulas for MVDCosts.xls file, Direct worksheet

# Table 28 – Formulas for MVDCosts.xls file, Operating worksheet

	A	В	С	D	E
1	MVD Customer Service Costs			<u>.</u>	
2	Operating Costs				
3					
4	Cost Type/Function	Total FY2002 Costs	Allocation Basis	Allocation Percentage	Total Allocated to Customer Service
5	Operating Costs				
6	Plates & Tabs	2295284.98	Registrations	=(Transactions!\$B\$35/Transactions!\$E\$33)	=B6*D6
7	Drivers License Credentials (DDL)	2400000	DL Transactions	=(Transactions!\$E\$18/Transactions!\$E\$34)	=B7*D7
8	Printing	1393761.06	Transactions	=(Transactions!\$E\$29/Transactions!\$E\$39)	=B8*D8
9	Postage	1300000	Full	1	=B9*D9
10	Supplies	=1735479+104758+1949040	Transactions	=(Transactions!\$E\$29/Transactions!\$E\$39)	=B10*D10
11					
12	Total Operating Costs	=SUM(B6:B10)			=SUM(E6:E10)

A	В	С	D	E
1 MVD Customer Service Costs	•			•
2 Technology Costs				
3				
4 Cost Type/Function	Total FY2002 Costs	Allocation Basis	Allocation Percentage	Total Allocated to Customer Service
5 Information Technology Costs				
6 Programming	3522535	Transactions	=(Transactions!\$E\$29/Transactions!\$E\$39)	=B6*D6
IT Equipment Depreciation (Capitalized 7 Equipment)	=796094/5	Transactions	=(Transactions!\$E\$18/Transactions!\$E\$34)	=B7*D7
8 IT Equipment Purchases (Non-Capitalized)	248140	Transactions	=(Transactions!\$E\$29/Transactions!\$E\$39)	=B8*D8
9 Software Depreciation (Capitalized)	=31976/5	Transactions	=(Transactions!\$E\$29/Transactions!\$E\$39)	=B9*D9
10 Software Purchases (Non-Capitalized)	18385	Transactions	=(Transactions!\$E\$29/Transactions!\$E\$39)	=B10*D10
11 Total Information Technology Costs	=SUM(B6:B10)			=SUM(E6:E10)
12				
13 Telecommunications Costs				
14 External Telecommunications	1842956	Transactions	=(Transactions!\$E\$29/Transactions!\$E\$39)	=B14*D14
Telecommunications Equipment Depreciation (Capitalized Equipment)	=575552/5	Transactions	=(Transactions!\$E\$29/Transactions!\$E\$39)	=B15*D15
Telecommunications Equipment Purchases (Non- 16 Capitalized)	27294	Transactions	=(Transactions!\$E\$29/Transactions!\$E\$39)	=B16*D16
17 Total Telecommunications Costs	=SUM(B14:B16)			=SUM(E14:E16)
18				
19 Total Technology Costs	=B11+B17			=E11+E17

### Table 29 – Formulas for MVDCosts.xls file, Technology worksheet

#### Table 30 – Formulas for MVDCosts.xls file, Indirect worksheet

	А	В	С	D	E
1	MVD Customer Service Costs		•		•
2	Indirect Costs				
3					
					Total Allocated to
4	Cost Type/Function	Total FY2002 Costs	Allocation Basis	Allocation Percentage	Customer Service
5	MVD Indirect Costs				
6	MVD Management	685510	Transactions	=Transactions!\$E\$29/Transactions!\$E\$39	=B6*D6
7	MVD Centralized Administrative Support	1311709	Transactions	=Transactions!\$E\$29/Transactions!\$E\$39	=B7*D7
8	ERE on Above Personnel	482927.5542	Transactions	=Transactions!\$E\$29/Transactions!\$E\$39	=B8*D8
9	Total MVD Indirect Costs	=SUM(B6:B8)			=SUM(E6:E8)
10					
11	ADOT Indirect Costs				
12	Audit & Analysis	1698900	Headcount	=Transactions!\$E\$43/Transactions!\$E\$45	=B12*D12
13	Executive Staff	605300	Headcount	=Transactions!\$E\$43/Transactions!\$E\$45	=B13*D13
14	Financial Management Services	17030500	Headcount	=Transactions!\$E\$43/Transactions!\$E\$45	=B14*D14
15	Human Resources	893600	Headcount	=Transactions!\$E\$43/Transactions!\$E\$45	=B15*D15
16	Procurement	1060900	Headcount	=Transactions!\$E\$43/Transactions!\$E\$45	=B16*D16
17	Training Resources	430700	Headcount	=Transactions!\$E\$43/Transactions!\$E\$45	=B17*D17
18	Total ADOT Indirect Costs	=SUM(B12:B17)			=SUM(E12:E17)
19					
20	State Indirect Costs				
21	DOA - General Accounting Office	332551	Headcount	=Transactions!\$E\$43/Transactions!\$E\$45	=B21*D21
22	DOA - State Procurement Office	47773	Headcount	=Transactions!\$E\$43/Transactions!\$E\$45	=B22*D22
23	DOA - Risk Management Division	75083	Headcount	=Transactions!\$E\$43/Transactions!\$E\$45	=B23*D23
24	DOA - Mail Room	0	Headcount	=Transactions!\$E\$43/Transactions!\$E\$45	=B24*D24
25	Attorney General	=6877+196856	Headcount	=Transactions!\$E\$43/Transactions!\$E\$45	=B25*D25
26	State Treasurer	29461	Headcount	=Transactions!\$E\$43/Transactions!\$E\$45	=B26*D26
27	Public Records - Legislature	90150	Headcount	=Transactions!\$E\$43/Transactions!\$E\$45	=B27*D27
1	Governor's Office - Office of Strategic Planning &				
28	Budgeting	59272	Headcount	=Transactions!\$E\$43/Transactions!\$E\$45	=B28*D28
1					
29	Governor's Office - Office of Equal Opportunity	45718	Headcount	=Transactions!\$E\$43/Transactions!\$E\$45	=B29*D29
30	Governor's Office - Office for Excellence in Government	292/9/	Headcount		-D20*D20
30		282686	Headcount	=Transactions!\$E\$43/Transactions!\$E\$45	=B30*D30
31	DOA - Occupancy Total State Indirect Costs	60123	rieadcount	=Transactions!\$E\$43/Transactions!\$E\$45	=B31*D31
32	Total State Indifect Costs	=SUM(B21:B31)			=SUM(E21:E31)
33 34	Total Indirect Costs	D0   D10   D22			E0   E10   E22
34	Total mulrect Costs	=B9+B18+B32			=E9+E18+E32

	A	В	С	D	E
1	MVD Customer Service Costs	•	•		
2	Building & Equipment Costs				
3					
4	Cost Type	Total FY2002 Costs	Allocation Basis	Allocation Percentage	Total Allocated to Customer Service
	Building Costs				
6	Building Depreciation	=(43587600/40)+3602	Headcount	=Transactions!\$E\$43/Transactions!\$E\$44	=B6*D6
7	Building Rent	414416.23	Headcount	=Transactions!\$E\$43/Transactions!\$E\$44	=B7*D7
8	Janitorial & Building Repair/Maintenance	980573.99	Headcount	=Transactions!\$E\$43/Transactions!\$E\$44	=B8*D8
9	Landscaping	55000.9	Headcount	=Transactions!\$E\$43/Transactions!\$E\$44	=B9*D9
10	Utilities	987419.56	Headcount	=Transactions!\$E\$43/Transactions!\$E\$44	=B10*D10
11	Total Building Costs	=SUM(B6:B10)			=SUM(E6:E10)
12	Equipment Costs				
13	Equipment Lease/Rental	1367805.34	Headcount	=Transactions!\$E\$43/Transactions!\$E\$44	=B13*D13
14	Equipment Depreciation (Capitalized Equipment)	=165771/5	Headcount	=Transactions!\$E\$43/Transactions!\$E\$44	=B14*D14
15	Equipment Purchases (Non-Capital)	765956	Headcount	=Transactions!\$E\$43/Transactions!\$E\$44	=B15*D15
16	Equipment Repair & Maintenance	1041841	Headcount	=Transactions!\$E\$43/Transactions!\$E\$44	=B16*D16
17	Total Equipment Costs	=SUM(B13:B16)			=SUM(E13:E16)
18					
19	Total Building & Equipment Costs	=B11+B17			=E11+E17

### Table 31 – Formulas for MVDCosts.xls file, Building worksheet

Table 32 – Formulas for MVDCosts.xls file, Other worksheet

	A	В	C	D	E
1	MVD Customer Service Costs		-	•	
2	Other Costs				
3					
4	Cost Type	Total FY2002 Costs	Allocation Basis	Allocation Percentage	Total Allocated to Customer Service
5	Other Costs				
6	Advertising	225818	Transactions	=(Transactions!\$E\$29/Transactions!\$E\$39)	=B6*D6
7	Insurance	7323.78	Transactions	=(Transactions!\$E\$29/Transactions!\$E\$39)	=B7*D7
8	Interest Expense	11979.9	Transactions	=(Transactions!\$E\$29/Transactions!\$E\$39)	=B8*D8
9	Other Miscellaneous Costs	=2186+274724	Transactions	=(Transactions!\$E\$29/Transactions!\$E\$39)	=B9*D9
10					
11	Total Other Costs	=SUM(B6:B9)			=SUM(E6:E9)

	A	В	C D	E
1	MVD Customer Service		-	
2	Transaction Volumes			
3				
4	Transaction Type	FY2002 Total	Transaction Type	FY2002 Total
5	Title Transactions		Drivers License Transactions	
6	Title with registration	618676	Drivers License Issuance	240629
7	Title only	236201	Drivers License Renewal	125251
8	Duplicate title	169197	Permits issued	93870
9	Salvage/dismantled title	46106	Drivers License Reinstatement	68823
10	Create initial title	305816 Included in above	Duplicate Drivers License ID Card Issuance	453280
<u> </u>	Ownership form	included in above	ID Card Issuance	94838
12	Title from an Arizona Repossession Affidavit	Included in above	Drivers License Cancellation	0
13	Bonded titles	Included in above	Drivers License Written Test	151832
14	Restored salvage	Included in above	Drivers License Road Test	83231
15	Reconstruct title	Included in above	Motorcycle Skills Test	4768
16	Recovered theft title	Included in above	Commercial License (CDL) Written Test	17692
17	Non-repairable title	Included in above	Commercial License (CDL) Road Test	573
18	Refurbished title	Included in above	Total Drivers License Transactions	=SUM(E6:E17)
19	Special Constructed title	Included in above		
20	Total Title Transactions	=SUM(B6:B19)	Total Non-Inquiry Customer Service Transactions	=B20+B35+B38+B44+E18
22	Registration Transactions		Inquiry Transactions	
	Vehicle registration renewals Modify registration	975925 85537	MVR Inquiries Fee Inquiries	
24	mouny registration	85537	r co inquines	
25	Temporary registrations (TRPs)	77771	Address Changes	
26	Duplicate registration	37368	Record Sold Notices	
27	Issuance of a replacement plate and/or year tab	76584	Total Inquiry Transactions	=SUM(E23:E26)

# Table 33 – Formulas for MVDCosts.xls file, Transactions worksheet

#### **APPENDIX G - THIRD PARTY COST MODEL FORMULAS**

	А	В	С	
1	Third Party Costs		•	
2	Summary			
3	1			
4	Cost Type	FY2002 Total	Cost Per Transaction	
5	Direct Personnel Costs			
6	=Direct!A12	=Direct!F12	=B6/Transactions!\$E\$34	
7	=Direct!A22	=Direct!F22	=B7/Transactions!\$E\$34	
8	=Direct!A30	=SUM(B6:B7)	=B8/Transactions!\$E\$34	
9	Operating Costs			
10	=Operating!A12	=Operating!E12	=B10/Transactions!\$E\$34	
11	Technology Costs			
12	=Technology!A11	=Technology!E11	=B12/Transactions!\$E\$34	
13	=Technology!A17	=Technology!E17	=B13/Transactions!\$E\$34	
14	Total Technology Costs	=B12+B13	=C12+C13	
15	Indirect Costs			
16	=Indirect!A9	=Indirect!E9	=B16/Transactions!\$E\$34	
17	=Indirect!A18	=Indirect!E18	=B17/Transactions!\$E\$34	
18	=Indirect!A32	=Indirect!E32	=B18/Transactions!\$E\$34	
19	=Indirect!A34	=SUM(B16:B18)	=B19/Transactions!\$E\$34	
-	Building & Equipment Costs			
21	=Building!A11	=Building!E11	=B21/Transactions!\$E\$34	
22	=Building!A17	=Building!E17	=B22/Transactions!\$E\$34	
23	=Building!A19	=Building!E19	=B23/Transactions!\$E\$34	
24	Other Costs			
25	=Other!A11	=Other!E11	=B25/Transactions!\$E\$34	
26	Third-Party Fees			
27	=ThirdPartyFees!A14	=ThirdPartyFees!E14	=B27/Transactions!\$E\$34	
28	Total Third Party Costs	<b>=B8+B10+B14+B19+B23+B25+B27</b>	=C8+C10+C14+C19+C23+C25+C27	

### Table 34 – Formulas for ThirdPartyCosts.xls file, Summary worksheet

	A	В	С	D	E
1	Third Party Costs	•			•
2	Third Party Fees				
3					
4	Cost Type/Function	Total FY2002 Costs	Allocation Basis	Allocation Percentage	Total Allocated to Third Party
5	Third Party Fees				
6	Retainage (2% of VLT)	6571119.16	Full	1	=B6*D6
7	Registration Fee Retainage	1513230	Full	1	=B7*D7
8	Title Fee Retainage	925406	Full	1	=B8*D8
9	Driver License Fee Retainage	220727.35	Full	1	=B9*D9
10	Inquiry Fees Retainage	7497	Full	1	=B10*D10
11	Non-Resident Permit Retainage	1105	Full	1	=B11*D11
12	Credit Card Fee Reimbursment	2143237.04	Full	1	=B12*D12
13					
14	Total Third Party Fees	=SUM(B6:B12)			=SUM(E6:E12)

# Table 35 – Formulas for ThirdPartyCosts.xls file, ThirdPartyFees worksheet

				-	-
	A	В	С	D	E
	Third Party Costs				
	Direct Personnel Costs				
3					
4	Cost Type/Function	FTEs	Total FY2002 Costs	Allocation Basis	Allocation Percentage
	Competitive Government Program Personnel			DAGIO	
6	Third Party Auditors	7	270578	Full	1
7	Third Party QA	21	494250.55	Full	1
8	Third Party D/L	15	364513.71	Full	1
9	Third Party T&R	10	162093.7	Full	1
10	CGP Admin	3.5	130933.765	Full	1
11	ERE on Above CGP Personnel		371665.2091425	Full	1
12 13	Total Competitive Government Personnel	=SUM(B6:B11)	=SUM(C6:C11)		1
14	Direct Support Personnel				
15	**	2	46222	Full	1
16	Out-of-State Desk - ISS	1	26205	Full	1
17	Comm Unit - ISS	2	47048	Full	1
18	Training - ISS	1.5	52608	Full	1
19	Warehouse - CSS	1	24940	Full	1
20	Plate Positions - CSS	0.2	6885	Full	1
21	ERE on Above Supporting Personnel		53281.1604	Full	1
22	Total Direct Support Personnel	=SUM(B15:B21)	=SUM(C15:C21)		1
23	Other Personnel Costs				
24	••••••		248414	Headcount	=Transactions!\$B\$43/Transactions!\$B\$45
25			182922	Headcount	=Transactions!\$B\$43/Transactions!\$B\$45
26	Traver Expenses		395608	Headcount	=Transactions!\$B\$43/Transactions!\$B\$45
27	•		421240	Headcount	=Transactions!\$B\$43/Transactions!\$B\$45
	Total Other Personnel Costs		=SUM(C24:C27)		
29					
30	Total Direct Personnel Costs	=B12+B22	=C12+C22+C28		

### Table 36 – Formulas for ThirdPartyCosts.xls file, Direct worksheet

### Table 37 – Formulas for ThirdPartyCosts.xls file, Operating worksheet

	A	В	С	D	E
1	Third Party Costs			•	
2	Operating Costs				
3					
					Total Allocated to
4	Cost Type/Function	Total FY2002 Costs	Allocation Basis	Allocation Percentage	Third Party
5	Operating Costs				
6	Plates & Tabs	2295284.98	Registrations	=Transactions!\$B\$26/Transactions!\$E\$40	=B6*D6
_	Drivers License				
7	Credentials (DDL)	2400000	DL Transactions	=Transactions!\$E\$17/Transactions!\$E\$41	=B7*D7
8	Printing	1393761.06	Transactions	=Transactions!\$E\$32/Transactions!\$E\$46	=B8*D8
9	Postage	=(SUM(Transactions!E20:E23)+Transactions!E29)*0.275	Calculated	1	=B9*D9
-	Tostage	-(30)W(11alisactions:E20.E23)+11alisactions:E23)*0.273	Calculated	1	-B9 D9
10	Supplies	=1735479+104758+1949040	Transactions	=Transactions!\$E\$32/Transactions!\$E\$46	=B10*D10
11					
12	<b>Total Operating Costs</b>	=SUM(B6:B10)			=SUM(E6:E10)

	A	В	С	D	E
1	MVD Customer Service Costs				
2	Technology Costs				
3					
4	Cost Type/Function	Total FY2002 Costs	Allocation Basis	Allocation Percentage	Total Allocated to Customer Service
5	Information Technology Costs				
6	Programming	3522535	Transactions	=Transactions!\$E\$34/Transactions!\$E\$46	=B6*D6
7	IT Equipment Depreciation (Capitalized Equipment)	=796094/5	Transactions	=Transactions!\$E\$34/Transactions!\$E\$46	=B7*D7
8	Capitalized)	248140	Transactions	=Transactions!\$E\$34/Transactions!\$E\$46	=B8*D8
9	Software Depreciation (Capitalized)	=31976/5	Transactions	=Transactions!\$E\$34/Transactions!\$E\$46	=B9*D9
10	Software Purchases (Non-Capitalized)	18385	Transactions	=Transactions!\$E\$34/Transactions!\$E\$46	=B10*D10
11	Total Information Technology Costs	=SUM(B6:B10)			=SUM(E6:E10)
12					
13	Telecommunications Costs				
14	External Telecommunications	1842956	Transactions	=Transactions!\$E\$34/Transactions!\$E\$46	=B14*D14
15	Telecommunications Equipment Depreciation (Capitalized Equipment)	=575552/5	Transactions	=Transactions!\$E\$34/Transactions!\$E\$46	=B15*D15
16	Telecommunications Equipment Purchases (Non-Capitalized)	27294	Transactions	=Transactions!\$E\$34/Transactions!\$E\$46	=B16*D16
17	Total Telecommunications Costs	=SUM(B14:B16)			=SUM(E14:E16)
18					
19	Total Technology Costs	=B11+B17			=E11+E17

# Table 38 – Formulas for ThirdPartyCosts.xls file, Technology worksheet

A	В	С	D	E
1 Third Party Costs		•		
2 Indirect Costs				
3				
				Total Allocated to
4 Cost Type/Function	Total FY2002 Costs	Allocation Basis	Allocation Percentage	Third Party
5 MVD Indirect Costs	Total FT 2002 Costs	Anocation Dasis	Anocation Percentage	Thiru Farty
	(05510	TT C		D(#D)
6 MVD Management	685510	Transactions	=Transactions!\$E\$32/Transactions!\$E\$46	=B6*D6
7 MVD Centralized Administrative Support	1011500	T C	T	D5+D5
···· = ••••••••••••••••••••••••••••••••	1311709	Transactions	=Transactions!\$E\$32/Transactions!\$E\$46	=B7*D7
	482927.5542	Transactions	=Transactions!\$E\$32/Transactions!\$E\$46	=B8*D8
9 Total MVD Indirect Costs	=SUM(B6:B8)			=SUM(E6:E8)
		-		
11 ADOT Indirect Costs		YY 1		
12 Audit & Analysis	1698900	Headcount	=Transactions!\$B\$43/Transactions!\$B\$46	=B12*D12
13 Executive Staff	605300	Headcount	=Transactions!\$B\$43/Transactions!\$B\$46	=B13*D13
14 Financial Management Services	17030500	Headcount	=Transactions!\$B\$43/Transactions!\$B\$46	=B14*D14
15 Human Resources	893600	Headcount	=Transactions!\$B\$43/Transactions!\$B\$46	=B15*D15
16 Procurement	1060900	Headcount	=Transactions!\$B\$43/Transactions!\$B\$46	=B16*D16
17 Training Resources	430700	Headcount	=Transactions!\$B\$43/Transactions!\$B\$46	=B17*D17
18 Total ADOT Indirect Costs	=SUM(B12:B17)		=SUM(D12:D17)	=SUM(E12:E17)
19				
20 State Indirect Costs				
21 DOA - General Accounting Office	332551	Headcount	=Transactions!\$B\$43/Transactions!\$B\$46	=B21*D21
22 DOA - State Procurement Office	47773	Headcount	=Transactions!\$B\$43/Transactions!\$B\$46	=B22*D22
23 DOA - Risk Management Division	75083	Headcount	=Transactions!\$B\$43/Transactions!\$B\$46	=B23*D23
24 DOA - Mail Room	0	Headcount	=Transactions!\$B\$43/Transactions!\$B\$46	=B24*D24
25 Attorney General	=6877+196856	Headcount	=Transactions!\$B\$43/Transactions!\$B\$46	=B25*D25
26 State Treasurer	29461	Headcount	=Transactions!\$B\$43/Transactions!\$B\$46	=B26*D26
27 Public Records - Legislature	90150	Headcount	=Transactions!\$B\$43/Transactions!\$B\$46	=B27*D27
Governor's Office - Office of Strategic				
28 Planning & Budgeting	59272	Headcount	=Transactions!\$B\$43/Transactions!\$B\$46	=B28*D28
Governor's Office - Office of Equal				
29 Opportunity	45718	Headcount	=Transactions!\$B\$43/Transactions!\$B\$46	=B29*D29
Governor's Office - Office for Excellence in				
30 Government	282686	Headcount	=Transactions!\$B\$43/Transactions!\$B\$46	=B30*D30
31 DOA - Occupancy	60123	Headcount	=Transactions!\$B\$43/Transactions!\$B\$46	=B31*D31
32 Total State Indirect Costs	=SUM(B21:B31)			=SUM(E21:E31)
33	56m(021.051)			5011(121.151)
34 Total Indirect Costs	=B9+B18+B32			=E9+E18+E32

### Table 39 – Formulas for ThirdPartyCosts.xls file, Indirect worksheet

# Table 40 – Formulas for ThirdPartyCosts.xls file, Building worksheet

	A	В	С	D	E
1	Third Party Costs		-		
2	Building & Equipment Costs				
3					
4	Cost Type	Total FY2002 Costs	Allocation Basis	Allocation Percentage	Total Allocated to Third Party
5	Building Costs				
6	Building Depreciation	=(43587600/40)+36020	Headcount	=Transactions!\$B\$43/Transactions!\$B\$45	=B6*D6
7	Building Rent	414416.23	Headcount	=Transactions!\$B\$43/Transactions!\$B\$45	=B7*D7
8	Repair/Maintenance	980573.99	Headcount	=Transactions!\$B\$43/Transactions!\$B\$45	=B8*D8
9	Landscaping	55000.9	Headcount	=Transactions!\$B\$43/Transactions!\$B\$45	=B9*D9
10	Utilities	987419.56	Headcount	=Transactions!\$B\$43/Transactions!\$B\$45	=B10*D10
11	Total Building Costs	=SUM(B6:B10)			=SUM(E6:E10)
12	Equipment Costs				
13	Equipment Lease/Rental	1367805.34	Headcount	=Transactions!\$B\$43/Transactions!\$B\$45	=B13*D13
14	Equipment Depreciation (Capitalized Equipment)	=165771/5	Headcount	=Transactions!\$B\$43/Transactions!\$B\$45	=B14*D14
15	Equipment Purchases (Non-Capital)	765956	Headcount	=Transactions!\$B\$43/Transactions!\$B\$45	=B15*D15
16	Equipment Repair & Maintenance	1041841	Headcount	=Transactions!\$B\$43/Transactions!\$B\$45	=B16*D16
17	Total Equipment Costs	=SUM(B13:B16)			=SUM(E13:E16)
18					
19	Total Building & Equipment Costs	=B11+B17			=E11+E17

	A	В	С	D	E
1	Third Party Costs	•			
2	Other Costs				
3					
4	Cost Type	Total FY2002 Costs	Allocation Basis	Allocation Percentage	Total Allocated to Third Party
5	Other Costs				
6	Advertising	225818	Transactions	=Transactions!\$E\$32/Transactions!\$E\$46	=B6*D6
7	Insurance	7323.78	Transactions	=Transactions!\$E\$32/Transactions!\$E\$46	=B7*D7
8	Interest Expense	11979.9	Transactions	=Transactions!\$E\$32/Transactions!\$E\$46	=B8*D8
9	Other Miscellaneous Costs	=2186+274724	Transactions	=Transactions!\$E\$32/Transactions!\$E\$46	=B9*D9
10					
11	Total Other Costs	=SUM(B6:B10)			=SUM(E6:E10)

# Table 41 – Formulas for ThirdPartyCosts.xls file, Other worksheet

	A	В	C D			
1	Third-Party					
	Transaction Volumes					
3	Transaction volumes					
4	Transaction Type	FY2002 Total	Transaction Type			
	Title Transactions		Drivers License Transactions			
6	Title with registration	307037	Drivers licenses issued			
	Title only	90671	Drivers license renewals			
	Duplicate title	60054	Permits issued			
9	Salvage/dismantled title	57089	Drivers license reinstatements			
	Create initial title	400347	Duplicate drivers licenses			
11	form	0	ID cards issued			
12	Title from an Arizona Repossession Affidavit	0	Drivers License Written Test			
	Total Title Transactions	=SUM(B6:B12)	Drivers License Road Test			
14			Motorcycle Skills Test			
15	Registration Transactions		Commercial License (CDL) Written Test			
	Vehicle registration renewals	187907	Commercial License (CDL) Road Test			
	Modify registration	10726	Total Drivers License Transactions			
	Temporary registration (TRPs)	26280				
	Duplicate registration	2469	ServiceArizona Transactions			
	Issuance of a replacement plate and/or year tab	18732	Registration Renewals			
	Issuance of specialty plates	347	Duplication Drivers Licenses/Ids			
	Issuance of government plates	0	Personalized/Specialty Plate			
	Mobile Home/Permanent Plates	578	Fleet Registration Renewal			
	Fleet Registrations	0	Address Change			
	Other Registration Transactions	0	Plate Credit			
	Total Registration Transactions	=SUM(B16:B25)	Restricted Use 3-Day Permit			
27			Driver's License Reinstatement			
28	Vehicle Inspections		90 Day Temporary Permits			
	Level 1 Vehicle Inspections	146967	IVR Renewals			
	Other Inspections	0	Total ServiceArizona Transactions			
31	Total Vehicle Inspection Transactions	=SUM(B29:B30)				
32			Total Non-Inquiry Third Party Transactions			
33	Inquiry Transactions					
	MVR Inquiries (MVRs purchased)		Total Third Party Transactions			
35	Fee Inquiries (from ServiceArizona)					
	Plate Credit (from ServiceArizona)		1			
	Address Changes (from ServiceArizona)		1			
38	Record Sold Notices		Grand Total Transactions (MVD & Third-Party)			
	Total Inquiry Transactions	=SUM(B34:B38)	Grand Total Title Transactions			
40			Grand Total Registration Transactions			
41			Grand Total Drivers License Transactions			
42	Headcount		Grand Total Vehicle Inspection Transactions			
	Average CGP Headcount	56.5	Grand Total Renew-by-Mail Transactions			
	Average Field Office Headcount	990	Grand Total Other Transactions			
	Average MVD Headcount	1700	Grand Total Service Arizona Transactions			
	Average ADOT Headcount	4855	Grand Total All Transactions			
46	Average ADOT Headcount	4855	Grand Total All Transactions			

# Table 42 – Formulas for ThirdPartyCosts.xls file, Transactions worksheet

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