STATE TRAFFIC RECORDS ADVISORY COMMITTEE

2015 Annual Report

COLORADO
Department of Transportation
Transportation Systems Management & Operations

COLORADO
Department of Revenue

COLORADO
Department of Public Safety

COLORADO
Office of Behavioral Health
Department of Human Services
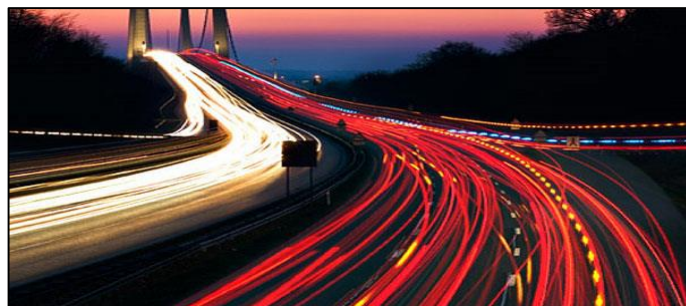
COLORADO
Department of Public Health & Environment

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Governor's Office of Information Technology

Colorado Judicial Branch

Prepared by Cambridge Systematics

For STRAC

March 2016

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Executive Summary

This report summarizes the activities of the Colorado Statewide Traffic Records Advisory Committee (STRAC) for fiscal year 2015 and fiscal year 2016 through December 2015. It identifies the responsibilities of the committee, successes and challenges, grant money distributed, and planned activities for the remainder of fiscal year 2016.

The STRAC was formed as part of a federally-sponsored effort to improve traffic records. It is charged with overseeing the development, implementation, and management of a strategic plan for the improvement of state traffic records. Through a memorandum of understanding (MOU), seven state agencies have agreed to implement the STRAC strategic plan in order to develop a comprehensive integrated traffic records system that is accurate, complete, timely, and accessible.

In 2014, STRAC provided oversight on the distribution of $581,182 in federal funds intended to improve traffic records. In 2015, STRAC again provided oversight on an additional $399,377 in funds. For 2016, STRAC has approved projects totaling $1,155,201 to date.

The result of these expenditures has been:

- An increase in agencies reporting crashes electronically to the Department of Revenue

  - 80 percent of agencies are now completing electronic crash reports.

  - 43 percent of crash reports submitted to DOR are now submitted electronically.

- An increase in the number of agencies completing citations electronically

- Improved data for crashes on the local road network

STRAC Purpose

Colorado's Traffic Records system is a virtual system comprised of independent crash data systems. These systems collectively form the information base for the management of the state's highway and traffic safety activities. The different sources of our traffic records system can be found within seven principal state agencies. Membership in the State Traffic Records Advisory Committee (STRAC) consists of voting representation from each of these seven agencies and non-voting representation from local government representatives, universities, researchers and others. Collectively, these state agencies, in cooperation with local partners, use the data to develop and identify funds to further initiatives to reduce both the number and severity of traffic crashes on the state's roadways.

The highway safety provisions of federal transportation legislation provide significant additional funding to each state for the improvement of Traffic Records information systems. However, this funding is conditional. To obtain it, each state must have a statewide Traffic Records Coordinating Committee (TRCC) with certain roles and responsibilities, a current Strategic Plan for traffic records, and a current traffic records assessment. STRAC has served in the role of the TRCC since the 1970's.

Mission Statement

Our mission is to coordinate and facilitate the interagency and intra-agency acquisition and disbursement of accurate, timely and accessible traffic records to data consumers for use in the traffic safety improvement processes in a user friendly environment.

Vision Statement

It is the vision of STRAC to provide a traffic records data system which delivers complete, timely and accurate data, incorporating data from all available sources, for use by approved data consumers in traffic safety decision making processes.

STRAC Responsibilities

- Develop and oversee the long range planning efforts of the traffic records system.

- Review potential changes to traffic records systems and highway safety data before changes are implemented.

- Follow the direction provided by the 2015 TR Assessment and implement changes as needed.

- Consider and coordinate the views of organizations in the State that are involved in the administration, collection and use of traffic records systems and highway safety data.

- Represent the interests of agencies and organizations within the traffic records system to outside organizations.

- Review and evaluate new technologies and keep the traffic records system and highway safety data up to date.

- Investigate the possibilities of linking traffic records systems.

- Provide recommendations to their respective departments, divisions and agencies on the collection, management, and enhancement of statewide traffic records system.

- Provide a forum for discussion and reporting of highway safety data and traffic records issues to agencies and organizations in the State that create, maintain and use traffic records and highway safety data.

- Review national initiatives and best practices of other states.

- Provide education to law enforcement officers in an endeavor to enhance the quality of traffic accident reporting.

The Annual Implementation or Action Plan:
On an annual basis, STRAC will evaluate projects authorized for National Highway Traffic Safety Administration (NHTSA) 405(c) funding, and will continue to encourage those projects that serve the key goals and objectives of the STRAC Strategic Plan.   STRAC will review the status and progress towards the key strategic goals and objectives, will report to executive management, and will revise the Strategic Plan for Traffic Records, as needed, to meet the changing technologies and demands of the Traffic Records environment.

STRAC 2015 Accomplishments

Grant Management
The STRAC oversees the solicitation, application, review, approval, and recommendation of NHTSA 405(c) grant projects to improve traffic records. In past years, a request for project applications was sent to every police department throughout the state, as well as all STRAC members, who then passed on the request to any appropriate associates. This process resulted in 12 projects worth $581k in FFY2014 and nine projects worth $399k in FFY2015.

Colorado used two crash/timeliness performance measures to show improvement to the NHTSA, thus securing funding for another year.

Crash Records Data Collection and Processing
The Department of Revenue (DOR) continued to enter crash records information into the Electronic Accident Report System (EARS) database and the Electronic Document Warehouse (EDW). The NHTSA assesses Colorado's traffic record data quality by measuring how quickly Colorado accident reports are available electronically, and by measuring the accuracy and completeness of the accident reports. Colorado's goal for processing a report from crash to entry into the EARS or EDW systems is seven days. In the past, the State consistently struggled to meet that goal, often taking 12 days before a crash report was available electronically. With increased electronic data collection and increased electronic submission of crash records to DOR, the State is now processing crashes within 6 days, thereby exceeding the State's goal.

In addition to the need for timely entry into the EARS database, the Colorado Department of Transportation (CDOT) needs accurate and timely crash data to respond to emerging traffic safety concerns. CDOT continues to use staff and temporary employees to cleanse the crash data and provide more accurate crash location information, which improves the accuracy and completeness of crash data for safety analyses (CDOT database).

To accomplish this, CDOT reviews a minimum of 51 data fields per crash and routinely makes corrections or additions to 98 percent of crash records. Of these changes, 34 percent are enhancements done for CDOT's

benefit, 30 percent are corrections and 36 percent are blank fields filled in. The most common changes are the crash type description and crash location, both critical elements to conducting data analysis and making program resource distribution decisions. Since 2012, the delay in accurate, processed crash data has been reduced from over a year to only four months.

Task Force on Statewide Crash Data Base
A group of STRAC members and partners met to begin the initial planning process for the development of a statewide crash data base. In early 2016, Traffic Records Coordinator (TRC) was hired to move this project forward. A key part of this initiative is the DRIVES project, which will result in a new DOR crash, vehicle, and driver databases. STRAC will work closely with DOR in 2016 to ensure that DRIVES accounts is integrated with other state databases and processes, to the extent possible.

Higher Education Partnership
CDOT strengthened ties with Metropolitan State University (MSU) by undertaking 2 cooperative projects. MSU has assisted CDOT on the 2012 Crash Book display project, and a geo-coding project in 2014 – 2015. There are no projects currently planned for 2016.

E-Citation Program
Electronic citation (E-Citation) projects are progressing throughout the state. These projects will ensure that DOR and the Courts can communicate electronically with all law enforcement agencies utilizing e-citation systems. While E-Citations are a core element in improving officer safety by decreasing exposure time on our roads, electronic entry also reduces manual data entry, improving accuracy, completeness, and timeliness of this important traffic record.

E-Crash Program
All of the top 15 agencies, as determined by the percentage of reports, are now completing crash reports electronically. This accounts for over 77 percent of all crash reports completed in the state. Of those, currently the Colorado State Patrol, the Aurora Police Department, Greenwood Village, the Longmont Police Department, Colorado Springs Police Department, Weld County/Greeley, and Broomfield PD are submitting electronic crash reports to the DOR. These seven agencies account for 43 percent of the total reports submitted. An additional five agencies (Denver PD, Ft. Collins PD, Lakewood PD, Westminster PD, and Eagle County/Vail) are scheduled to begin submitting electronic crash reports in 2016 or 2017. When those agencies come on line, approximately 69 percent of all crash reports will be submitted electronically.

Table 1 reflects the status of the E-Crash program as of February 2016.

Table 1.   E-Crash Program Status by Agency

Agency Name	Crashes Reported in 2014	% of Statewide Crashes Reported in 2014	Status of E-Crash Program
Colorado State Patrol	26,219	22.7%	Currently sending reports electronically
Denver Police Department	19,730	17.1%	In Testing Phase, scheduled to submit electronically in 2016
Colorado Springs Police Department	9,042	7.8%	Currently sending reports electronically
Aurora Police Department	7,303	6.3%	Currently sending reports electronically
Ft. Collins Police Department	3,663	3.2%	Scheduled to submit electronically in 2016
Lakewood Police Department	3,607	3.1%	Scheduled to submit electronically in 2017
Weld County/Greeley	2,911	2.5%	Currently sending reports electronically
Pueblo Police Department	2,722	2.4%	The department is internally completing electronic crash reports. STRAC is working toward electronic submission to DOR.
Westminster Police Department	2,650	2.3%	Scheduled to submit electronically in 2017
Thornton Police Department	2,251	2.0%	The department is internally completing electronic crash reports. STRAC is working toward electronic submission to DOR.
Longmont Police Department	1,950	1.7%	Currently sending reports electronically
Boulder Police Department	1,948	1.7%	The department is internally completing electronic crash reports. STRAC is working toward electronic submission to DOR.
Arvada Police Department	1,777	1.5%	The department is internally completing electronic crash reports. STRAC is working toward electronic submission to DOR.
Grand Junction Police	1,635	1.4%	The department is internally completing electronic crash reports. STRAC is working toward electronic submission to DOR.
Arapahoe Sheriff's Office	1,625	1.4%	The department is internally completing 67% of their crash reports electronically.
Broomfield Police Department	1,411	1.2%	Currently sending reports electronically
Greenwood Village Police Department	1,066	0.9%	Currently sending reports electronically.
Eagle County	279	0.2%	Scheduled to submit electronically in 2016

Traffic Records Forum

STRAC continues to send representatives to the Traffic Records Forum utilizing a variety of funding sources. In 2015, two representatives from DOR and one from CSP attended the Forum, funded by the 405c grant. Two more staff from CDOT and one from CDPHE also attended from STRAC, funded from other sources.

Traffic Records Assessment

The 5 year NHTSA Traffic Assessment was completed in April 2015. The recommendations from the assessment are being reviewed by the STRAC to inform the development of future traffic records projects.

STRAC Ongoing and Future Initiatives

Traffic records reflect a multitude of different types of data including citations, crash reports, traffic volume and roadway inventory data, injury outcome data, and EMS trip reports. This data is collected by multiple agencies and reside in multiple databases making data retrieval and sharing difficult. For example, the State of Colorado produces over 100,000 crash reports each year from approximately 230 separate law enforcement agencies. The data from these reports are officially stored at the Colorado Department of Revenue's Motor Vehicle Division, and then extracted to the Colorado Department of Transportation for data processing and improvement, analysis, and sharing among the many federal, state, and local agencies and stakeholders responsible for improving safety on Colorado's transportation network.

STRAC guides Colorado agencies on the use of NHTSA grant funding to improve the collection, storing, linking, and sharing of this data through grant-awarded projects. Below are key future projects as well as a listing of 2014 and 2015 projects and accomplishments.

DRIVES
The DOR has initiated an update to the state's crash database (including crash, vehicle, and person datasets). This project will require coordination from STRAC members to ensure that it meets the needs of data providers and users. Upon completion, it will be a significant improvement to the state's traffic records data.

Colorado Crash Data Users' Database Vision and Roadmap
In order to makes Colorado's traffic records databases more integrated and accessible, a number of related databases must be connected and then shared with the many users in varying capacities. This project will define this vision and outline tasks, projects and a schedule to reach this vision.

Statewide Traffic Records Database
A proposal is underway to create a statewide data sharing system. This system will link all major Traffic Records (TR) stakeholders and combine their data for more universal use. This project is still in the conception stage and if developed will involve several projects over several years.

Electronic Reporting of Crash Data
STRAC is working to add all communities that capture their crash reports electronically, to electronically submit them to the Department of Revenue. Currently, it is estimated that over 85 percent of the statewide crashes are collected electronically, but only 43 percent are submitted to DOR electronically.

Traffic Records Coordinator (TRC)
Currently all STRAC members have other full time responsibilities that limit the amount of time that can be devoted to traffic records projects. A Traffic Records Coordinator was hired in late 2015 to assist STRAC with various projects and to represent STRAC in discussions with member agencies and partners.

New Crash Report
In the coming year, STRAC will be working with our partners to develop, present, and implement an updated crash report that is in line with new technology and concerns to improve traffic safety. It is anticipated this new report will implemented in 2017, with a draft report ready by September 2016.

FFY 2016 Projects (October 2015 – September 2016)

Through February 2016, STRAC approved projects totaling $1,155,201 for FFY2016. Only a small portion of those funds have been spent, as spending typically increases in the third and fourth quarters. Additional projects are likely to be identified, approved and completed throughout 2016.

Greeley Police Department

Project Name:	Expand E-Ticket System 16-04-41-03
Grant Amount:	$ 89,375
Actual Amount Spent:	$ TBD
Performance Measure:	Improved Citation Completeness
	Improved Citation Timeliness

Project: The Greeley Police Department uses an E-Citation system from Advanced Public Safety (APS) for its traffic unit and some patrol vehicles. The Greeley Police Department has requested and received a grant to purchase additional hardware and software licenses to outfit the remainder of the patrol fleet. All citations will be electronically transmitted to records and the court through the current process.

Conditions: The project must be designed to match the State Judicial schema so that when Judicial is ready, the ability to send citations to them is in place.

Progress/Results: The project is approved by STRAC and NHTSA and is currently in the process of obtaining data on the fleet and the E-citation units and licenses.

City of Lone Tree Police Department

Project Name:	E-Ticket System 16-04-41-04
Grant Amount:	$ 101,042
Actual Amount Spent:	$ TBD
Performance Measure:	Improved Citation Completeness
	Improved Citation Accuracy
	Improved Citation Timeliness

Project: The Lone Tree Police Department has requested and received a grant to purchase an Electronic Ticketing System for the Lone Tree Police Department to help improve the accuracy, completeness, and uniformity, of citations written by law enforcement officers, and to improve information flow and connectivity to the municipal court through electronic submission.

Conditions: The project must be designed to match the State Judicial schema so that when Judicial is ready, the ability to send citations to them is in place.

Progress/Results: The project is approved by STRAC and NHTSA and is working towards implementation.

City of Broomfield Police Department

Project Name: E-Ticket System for Traffic Unit   16-04-41-05
Grant Amount: $30,580
Actual Amount Spent: $ TBD
Performance Measure: Improved Citation Completeness
Improved Citation Accuracy
Improved Citation Timeliness

Project: The Broomfield Police requested and received a grant to implement an E-Crash collection and submission project using ruggedized tablets for its Traffic Unit. The department will expand the program to include others in patrol-related functions, with the goal of eliminating the need for paper ticketing within two years.

Conditions: The project must be designed to match the State Judicial schema so that when Judicial is ready, the ability to send citations to them is in place.

Progress/Results: The project is approved by STRAC and NHTSA and all eight of the requested tablets were purchased and deployed.

Englewood Police Department

Project Name: Electronic Citation Project   16-04-41-11
Grant Amount: $ 75,485
Actual Amount Spent: $ TBD
Performance Measure: Improved Citation Completeness
Improved Citation Accuracy
Improved Citation Timeliness

Project: The Englewood Police Department has requested and received a grant to purchase an electronic ticketing system designed to improve the completeness, accuracy, and uniformity of traffic citations, and the flow of information from the PD to the court system. All citations will be e-transferred to the courts (and later to the 18th Judicial District) using the standard, approved schema.

Conditions: The project must be designed to match the State Judicial schema so that when Judicial is ready, the ability to send citations to them is in place.

Progress/Results: The project is conditionally approved by STRAC and NHTSA and is pending implementation.

Erie Police Department

Project Name:	Electronic Citation Project	16-04-41-14
Grant Amount:	$ 38,565	
Actual Amount Spent:	$ TBD	
Performance Measure:	Improved Citation Accuracy	
	Improved Citation Completeness	

Project: The Erie Police Department has requested and received a grant to purchase an E-Ticketing System designed for public safety personnel and is intended to help improve the completeness, uniformity, and accuracy of citations written by officers.

Conditions: The project must be designed to match the State Judicial schema so that when Judicial is ready, the ability to send citations to them is in place.

Progress/Results: The project is approved by STRAC and NHTSA and is pending implementation.

Grand Junction Police Department

Project Name:	Implement Integrated Electronic Crash Reporting	16-04-41-06
Grant Amount:	$129,175	
Actual Amount Spent:	$ TBD	
Performance Measure:	Improved Crash Timeliness	

Project: The Grand Junction Police Department requested and received a grant to implement an Integrated Electronic Crash Reporting project which will replace its current crash system with an improved integrated solution. This new system will be integrated into the Records Management system, allowing for electronic submission into the State's Traffic Records System.

Progress/Results: The project is approved by STRAC and NHTSA and is working towards implementation.

Avon and Vail Police Departments (Eagle County)

Project Name:	E-Ticketing and E-Crash 16-04-41-12
Grant Amount:	$ 77,270
Actual Amount Spent:	$ 14,112
Performance Measure:	Improved Citation Timeliness
	Improved Citation Uniformity
	Improved Citation Completeness

Project: The Vail and Avon Police Departments requested and received a grant to implement an Integrated Electronic Crash Reporting and Citation system to produce more accurate and efficient crash and citation data, have a better more timely communication and data transfer to the courts and to the State
Conditions: The project must be designed to match the State Judicial schema so that when Judicial is ready, the ability to send citations to them is in place.

Progress/Results: The project is approved by STRAC and NHTSA and is being implemented as scheduled. The project has been continued from last year.

Greeley Traffic Engineering

Project Name:	Improvements of Crash Records in Greeley 16-04-41-13
Grant Amount:	$ 8,000
Actual Amount Spent:	$ TBD
Performance Measure:	Improved Crash Accuracy

Project: The City of Greeley requested and received a grant to improve accuracy, uniformity and completeness of the off-system crash records in the city of Greeley. This will be achieved by developing unified street naming convention, correcting crash attributes and improving locational accuracy for the off-system crash records for 2009, 2010, 2011, 2012, 2013, 2014.

Progress/Results: The project is approved by STRAC and NHTSA and is working towards implementation.

Colorado State Patrol

Project Name:	Improve Accessibility to Crash Files 16-12-98-03
Grant Amount:	$157,509
Actual Amount Spent:	$ TBD
Performance Measure:	Improved Record Accessibility

Project: The Colorado State Patrol (CSP) will contract through Integrated Document Solutions to scan and digitize statewide traffic crash records to improve accessibility to case files to end users and centralize access to case files through the newly established Records Management Unit.

Progress/Results: The project is approved by STRAC and NHTSA and is working towards implementation.

Colorado Department of Transportation

Project Name:	International Traffic Records Forum (Tech Transfer) 16-04-41-08
Grant Amount:	$20,000
Actual Amount Spent:	$ 5,409
Performance Measure:	Attendee Reports

Project: To fund the attendance of core STRAC Members (to be determined based on priority) to attend the 41th and 42nd International Traffic Records Conference hosted by National Safety Council and sponsored by NHTSA, FHWA, FMCSA, and BTS (Bureau of Transportation Statistics).

Progress/Results: The project is approved by STRAC and NHTSA. Three STRAC members attended the 2015 Forum and it is expected that 4 or 5 more will attend the 2016 conference.

Colorado Department of Transportation

Project Name:	Traffic Records Coordinator 16-04-41-10
Grant Amount:	$ 297,845
Actual Amount Spent:	$ TBD
Performance Measure:	TBD

Project: This project was created to supply Colorado with a Coordinator to organize traffic records systems among all the agencies involved. The TRC would work closely with the Statewide Traffic Records Advisory Committee (STRAC), CDOT, DOR, CSP and other agencies (including Police Departments) involved with traffic records as well as acting as a liaison among the involved agencies, under the guidance of the Project Manager.

Progress/Results: The project is approved by STRAC and NHTSA. The Contract has been approved and the project is on-going.

Colorado Department of Transportation

Project Name:	Traffic Records Program Support 16-12-98-03
Grant Amount:	$ 120,000
Actual Amount Spent:	$ 19,804
Performance Measure:	N/A

Project: Supports the statewide goals and objectives through review of the 2015 Traffic Records Assessment Report and projects as identified in that report. The 405C Traffic Records Program Management, including but not limited to: grant and project management, participation in STRAC events and facilitation, operating costs & participation in the Traffic Records Forum.

Progress/Results: The project is approved by STRAC and NHTSA and is on-going.

Colorado Department of Transportation

Project Name: FARS Program Support   16-04-41-09
Grant Amount: $11,294
Actual Amount Spent: $11,294
Performance Measure: N/A

Project: Supports the ongoing cooperative agreement with NHTSA/NCSA for Colorado to provide an overall measure of highway safety using fatal crash data. This project contributes to collecting, entering and maintaining the fatal crash data base.

Progress/Results: The project is approved by STRAC and NHTSA and is on-going.

FFY 2015 STRAC Projects (October 2014 – September 2015)

In FFY 2015, STRAC approved projects totaling $399,377. Of this amount, $294,840 were spent. FFY 2015 projects are listed below.

Loveland Police Department

Project Name:	E-Citation System 15-04-41-06
Grant Amount:	$ 31,266
Actual Amount Spent:	$ 31,266
Performance Measure:	Improved Citation Accuracy

Project: The Loveland Police Department requested and received a grant to implement an E-Citation system within the agency. As State Judicial is not ready to accept electronic citations, the proposed system will be developed to send completed citations to the municipal courts.

Conditions: The project must be designed to match the State Judicial schema so that when Judicial is ready, the ability to send citations to them is in place.

Progress/Results: Completed.

Eagle County Law Enforcement

Project Name:	E-Citation System 15-04-41-07
Grant Amount:	$ 151,840
Actual Amount Spent:	$ 69,910
Performance Measure:	Improved Citation Accuracy
	Improved Citation Completeness
	Improved Citation Uniformity
	Improved Citation Timeliness

Project: This was a joint project submitted by the four municipal police departments and the sheriff's office to implement an E-Citation system among all the agencies. As State Judicial is not ready to accept electronic citations, the proposed system will be developed to send completed citations to the municipal courts.

Conditions: The project must be designed to match the State Judicial schema so that when Judicial is ready, the ability to send citations to them is in place.
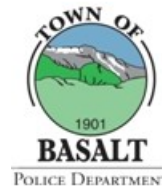
Progress/Results: Completed Phase I; remainder of the project to be completed in 2016.

Broomfield Police Department

Project Name: E-Crash Submission   15-04-41-05
Grant Amount: $ 26,622
Actual Amount Spent: $ 26,622
Performance Measure: Improved Crash Accuracy
        Improved Crash Timeliness

Project: The Broomfield Police requested and received a grant to implement an E-Crash collection and submission project. This will allow not only the completion of electronic crash reports, but also the electronic submission of these reports to DOR.

Progress/Results: Completed.

Wheat Ridge Police Department

Project Name: E-Citation System
Grant Amount: $19,912
Actual Amount Spent: $ 0
Performance Measure: Improved Citation Accuracy
        Improved Citation Timeliness

Project: The Wheat Ridge Police Department requested and received a grant to implement an E-Citation system within the agency. As State Judicial is not ready to accept electronic citations, the proposed system will be developed to send completed citations to the municipal courts.

Conditions: The project must be designed to match the State Judicial schema so that when Judicial is ready, the ability to send citations to them is in place.

Progress/Results: Wheat Ridge Police Department declined implementation as of 11/19/2014.

Colorado Department of Transportation

Project Name: Traffic Records Forum Conference   15-04-41-04
Grant Amount: $ 5,000
Actual Amount Spent: $ $3,997
Performance Measure: N/A

Project: The STRAC will again send members to the Annual Traffic Records Forum to attend seminars and breakout sessions in traffic records management.

Progress/Results: Three STRAC members attended this conference in October of 2014.

Colorado Department of Transportation

Project Name: Data Integration and Fox Pro Transition   15-04-41-11
Grant Amount: $ 57,250
Actual Amount Spent: $ 57,250
Performance Measure: Improved Crash Accuracy
    Improved Crash Integration
    Improved Crash Completeness

Project: This project is three-fold, incorporating correction of data, designing of new functionality and transitioning of all CDOT Applications (Edit Checks) from FoxPro Applications to Oracle. To do this, four items will prepare CDOT's database for future transitions: adaptation to changes in the CDOR data structure, expanding CDOT's summary data to include additional fields currently in EARS, management and maintenance of applications (including deliverables of CDOTEARS user guide and technical documentation) and reengineering the existing FoxPro applications.

Progress/Results: Completed.

Colorado Department of Transportation

Project Name: Off-System Crash Coding   15-04-41-09
Grant Amount: $ 79,329
Actual Amount Spent: $ $36,767
Performance Measure: Improved Crash Accuracy

Project: This was a joint program Metropolitan State University and CDOT to create a process that the CDOT Traffic and Safety staff can use to geocode off-system crash data. The envisioned geocoding process will utilize the crash location attributes to programmatically generate, locate, and assign accurate latitude/longitude coordinates to each crash record. Along with the development of the geocoding process, five years (2008-12) of off-system crash data will be geocoded as part of this project. The process uses the integrated geo-processing framework and the intuitive and self-documenting Model Builder interface embedded in ESRI's ArcGIS desktop software.

Progress/Results: Completed.

Colorado Department of Transportation

Project Name: Full-time Traffic Records Coordinator   15-04-41-12
Grant Amount: $ 120,000
Actual Amount Spent: $ 0
Performance Measure: TBD

Project: CDOT & STRAC will hire a full-time, dedicated Traffic Records Coordinator (TRC) whose job description is to improve statewide traffic records.

Progress/Results: Approved to begin in 2016.

Colorado Department of Transportation

Project Name:	FARS Program Support	15-04-41-03
Grant Amount:	$ 10,000	
Actual Amount Spent:	$ 8,511	
Performance Measure:	N/A	

Project: Supports the ongoing cooperative agreement with NHTSA/NCSA for Colorado to provide an overall measure of highway safety using fatal crash data.

Progress/Results: Completed.

Colorado Department of Transportation

Project Name:	Traffic Records Support	15-12-98-03
Grant Amount:	$ 120,000	
Actual Amount Spent:	$ 60,519	
Performance Measure:	N/A	

Project: Supports the statewide goals and objectives through review of the 2015 Traffic Records Assessment Report and project as identified in that report.

Progress/Results: Completed.

FFY 2014 Projects (October 2013 – September 2014)

In FFY 2014, STRAC approved projects totaling $581,182. Of this amount, $488,732 was spent. FFY 2014 projects are listed below.

Aurora Police Department

Project Name:	E-Citation System	14-04-41-03
Grant Amount:	$ 66,420	
Actual Amount Spent:	$ 60,973	
Performance Measure:	Improved Citation Accuracy	
	Improved Citation Timeliness	

Project: The Aurora Police Department requested and received a grant to implement an E-Citation system within the agency. As State Judicial is not ready to accept electronic citations, the proposed system will be developed to send completed citations to the municipal courts.

Conditions: The project must be designed to match the State Judicial schema so that when Judicial is ready, the ability to send citations to them is in place.

Progress/Results: Completed.
The e-citation program was implemented on 09/30/14. The e-citation system is already impacting issues with errors, omissions, and uniformity of information entered on the summons. Aurora PD and the Municipal Court expect to see a significant reduction in the total processing time.

Castle Rock Police Department

Project Name:	E-Citations	14-04-41-04
Grant Amount:	$ 89,897	
Actual Amount Spent:	$ 85,095	
Performance Measure:	Improved Citation Accuracy	

Project: The Castle Rock Police Department requested and received a grant to implement an E-Citation system within the agency. As State Judicial is not ready to accept electronic citations, the proposed system will be developed to send completed citations to the municipal courts.
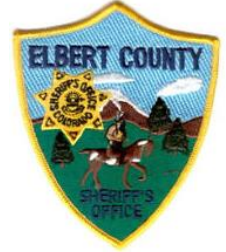
Conditions: The project must be designed to match the State Judicial schema so that when Judicial is ready, the ability to send citations to them is in place.

Progress/Results: Completed.

Elbert County Sheriff's Office

Project Name: E-Citation System   14-0441-07
Grant Amount: $ 35,188
Actual Amount Spent: $ 31,984
Performance Measure: Improved Citation Timeliness

Project: The Elbert County Sheriff's Office requested and received a grant to implement an E-Citation system within the agency.

Conditions: The project must be designed to match the State Judicial schema so that when Judicial is ready, the ability to send citations to them is in place.

Progress/Results: Completed.

Aurora Police Department

Project Name: E-Crash Submission   14-04-41-13
Grant Amount: $ 10,330
Actual Amount Spent: $ 2,821
Performance Measure: Improved Crash Accuracy
                         Improved Crash Timeliness

Project: The Aurora Police Department requested and received a grant to implement an E-Crash collection and submission project. This will allow not only the completion of electronic crash reports, but also the electronic submission of this reports to DOR.

Progress/Results: Completed Early
Aurora had done much work towards this work in 2012 – 2013, on Aurora's budget. This project was completed under budget by $7,508.58 and almost 6 months ahead of schedule. Since operations were satisfactory, the D.O.R. requested that the system go live on April 8, 2014. This program was completed and the e-transfer of crash data is continuing without further issues.

Colorado Springs Police Department

Project Name: E-Crash Submission   14-04-41-14
Grant Amount: $ 32,000
Actual Amount Spent: $ 25,920
Performance Measure: Improved Crash Accuracy
                         Improved Crash Timeliness

Project: The Colorado Springs Police Department requested and received a grant to implement an E-Crash collection and submission project. This will allow not only the completion of electronic crash reports, but also the electronic submission of these reports to DOR.

Additional info:
1.) Because the Fountain Police Department contracts with the Colorado Springs Police Department, once the system is on line, Fountain PD will also be submitting crash reports electronically.

2.) The Records management system used by Colorado Springs is New World. This system is used by several other law enforcement agencies in the state and completion of this project will assist in those agencies coming on line.

Progress/Results: Complete. Electronic submission to DOR was accomplished in early 2016.

Denver Police Department

Project Name:	E-Crash Submission 14-04-41-08
Grant Amount:	$ 58,470
Actual Amount Spent:	$ 58,470
Performance Measure:	Improved Crash Timeliness

Project: The Denver Police Department requested and received a grant to implement an E-Crash collection and submission project. This will allow not only the completion of electronic crash reports, but also the electronic submission of this reports to DOR.

Progress/Results: Denver completed all objectives except the e-transmission into DOR. Later efforts to e-transmit were also unsuccessful, as of 12/31/15.

Greenwood Village Police Department

Project Name:	E-Crash Submission 14-04-41-08
Grant Amount:	$ 42,750
Actual Amount Spent:	$ 42,750
Performance Measure:	Improved Crash Timeliness
	Improved Crash Accuracy

Project: The Greenwood Village Police Department requested and received a grant to implement an E-Crash collection and submission project. This will allow not only the completion of electronic crash reports, but also the electronic submission of these reports to DOR.

Additional Info: This system integrates with the E-Citation system that Greenwood Village already has in place.

Progress/Results: Completed. During the project period, Greenwood Village completed as much as possible. Electronic submission to DOR was accomplished in late 2015.

Colorado Department of Public Health and Environment

Project Name:	EMS Trauma Registry System	14-04-41-05
Grant Amount:	$ 95,938	
Actual Amount Spent:	$ 71,623	
Performance Measure:	Improved EMS Timeliness	
	Improved EMS Accuracy	
	Improved EMS Completeness	

Project: The CDPHE requested and received a grant to develop and maintain a comprehensive EMS and Trauma Registries at the CDPHE which can be used to contribute health information to the CDOT Traffic Safety Integrated Data Base and to improve the infrastructure and CPHE for maintenance and growth of the registries.

Progress/Results: Completed.
Health and Safety Data Services (HSD) staff continues to work with EMS agencies using third party vendor software to establish an Administrative Web access. CDPHE have assisted agencies in connecting directly with ImageTrend for delivery of webinar trainings on system administration and use of the State Bridge, Field Bridge and Report Writer applications. The HSD EMS Data Coordinator continues to monitor the download of EMS data each month. A RETAC Coordinator Users hosted a successful workshop for Image Trend Report Writer on 3/26/14. The HSD EMS Data Coordinator and other EMTS staff have reviewed the code lists used by EMS agencies and mapped non-standard values to match both the ImageTrend code lists and the standard code list from NEMSIS. HSD staff is participating in NHTSA's Quality Review of EMS Performance Measure Data Project by providing performance measure reports and requested data. CDPHE discontinued this grant on 6/30/14, $24,314 under budget.

Jefferson County

Project Name:	Off System Crash Correction 14-04-41-09
Grant Amount:	$ 15,188
Actual Amount Spent:	$ 15,188
Performance Measure:	Improved Crash Accuracy

Project: Jefferson County requested and was approved for funds to review and evaluate all off system crashes that occurred in the county from 2008 to 2012 to identify the crash location and update the reports to included latitude/longitude fields. These corrected reports will then be uploaded to CDOT.

Progress/Results: Completed.
The contractor reports cleansing 2008-2011 crash records and has coordinated these changes with CDOT. 8,521 records were corrected of 40,981 crashes in 2010 & 11 for 12 fields, including crash location and accident type.

Colorado Department of Transportation

Project Name:	FARS Program Support	14-04-41-12
Grant Amount:	$ 10,000	
Actual Amount Spent:	$ 7,421	
Performance Measure:	Improved Timeliness, Accuracy	

Project: Supports the ongoing cooperative agreement with NHTSA/NCSA for Colorado to provide an overall measure of highway safety using fatal crash data.

Progress/Results: Completed.

Colorado Department of Transportation

Project Name:	Tech Support Traffic Records Forum 14-04-41-11
Grant Amount:	$ 5,000
Actual Amount Spent:	$ 4,695
Performance Measure:	N/A

Project: Fund the attendance of core STRAC team Members at the Traffic Record Forum.

Progress/Results: Completed. This grant sent 3 core STRAC members to Minn. for the 2013 -TR Forum. Oct 27 - 30.

Colorado Department of Transportation

Project Name:	Traffic Records Support 14-12-98-03
Grant Amount:	$ 120,000
Actual Amount Spent:	$ 78,950
Performance Measure:	N/A

Project: Staff will address statewide goals and objectives through review of the 2009 TR Assessment Report.

Progress/Results: Completed.
Staff reviewed and assessed progress of the 2012 Traffic Records Strategic Plan and 2009 Traffic Records Assessment. Staff also participated in the activities of the STRAC. Staff assessed the program management responsibilities with emphasis on interface and coordination among CDOT, DOR and CSP, including sharing of expertise of other major stakeholders. Activities include participation in the 39th International Forum.

STRAC 2012 Strategic Plan Summary

STRAC is in the process of updating its Strategic Plan. The 2012 Strategic Plan is summarized below.

Strategic Goal: **To provide a sustainable, ongoing, dynamic mechanism for strategic decision making, for traffic records improvements, and for project coordination and implementation.**

Objective: Ensure that STRAC has the support it needs to remain effective.

Tasks:

- Seek broader local transportation, enforcement, healthcare, and justice agency participation in membership and pursue structured rotation among officers to include agencies at every level of governance.

- Empower STRAC Team Leads with sufficient information and resources to promote Traffic Records resources.

- Identify current traffic data needs among stakeholders and promote endeavors through STRAC to meet those needs.

- Publish and provide annual reports to policy makers reporting project progress and improvements to Colorado's Traffic Records Systems.

Objective: Ensure that STRAC is an effective, dynamic mechanism for Traffic Records Governance for Colorado.

Tasks:

- Review performance and update the strategic plan, STRAC MOU and Bylaws as appropriate to meet changing needs.

- Continue to prioritize, coordinate, monitor, and help procure funding for projects that support the STRAC Strategic Plan.

- Continuously survey and consider other states' traffic and municipalities' records endeavors for possible use in Colorado.

- Identify, acquire and provide continuous support for a designated Traffic Records Coordinator. This person will be charged with the maintenance of a project management system and the continual monitoring and reporting of project activities including the 405C grant program.

Strategic Goal: **To promote traffic records endeavors that serve the programs supporting those endeavors as well as to serve the users of the data.**

Objective: Provide support for systems projects that create efficiencies in program areas while improving traffic data attributes.

Tasks:

- Support projects to provide local law enforcement with electronic accident and citation reporting capabilities.

- Develop a plan for implementing a uniform traffic citation statewide among municipal and county courts and local law enforcement agencies.

- Use the uniform citation as the basis for the development of statewide electronic citation issuance, reporting and disposition.

- Ensure that electronic citation reporting includes issuance to disposition data, including original charging and ultimate disposition information.

- Leverage the existing Weld County electronic citation project into other districts through coordination between State Judicial, local law enforcement, CSP and DOR.

- Promote start to finish statewide electronic Penalty Assessment processing and payment from ticket issuance to Judicial, DOR, offender and driver file.

- Promote projects that support mag-stripe, bar code readers, and GPS positioning for automatic entry into electronic accident and crash reporting.

Strategic Goal: **To continually monitor, assess and improve all attributes of traffic data.**

Objective: Establish common standards to ensure the compatibility of systems and comparability of data and ensure the expeditious collection, management and accurate transfer of data among state and local jurisdictions

Tasks:
- Adopt and promote compliance with the following national standards: (National Information Exchange Model (NIEM), Model Minimum Uniform Crash Criteria (MMUCC) and National Emergency Medical Services Information Systems (NEMSIS).

- Promote efforts to establish and maintain comprehensive, up-to-date data dictionaries for disparate data systems, and uniform common data dictionaries for common data elements and linking disconnected data.

Objective: Institute improvements to Colorado's Injury Surveillance System Components in alignment with the recommendations of the most recent Traffic Records Assessment.

Tasks:
- Continue to promote MATRIX and recruit additional agencies to submit data.

- Institute data quality checks in MATRIX to reduce the rate of missing information.

- Complete planned linkage of crash and SWISS databases.

- Continue EMS (CDPHE) data expansion project.

Objective: Institute improvements to Colorado's Driver and Vehicle Records in alignment with the recommendations of the most recent Traffic Records Assessment.

Tasks:

- Develop a plan to record significant adverse driver history entries from previous states of licensure for all drivers, not only for commercial vehicle drivers.

- Develop a plan to preserve original charging as well as disposition data on citations.

- Add bar codes to motor vehicle registrations.

- Keep informed on CDOR's upcoming driver/vehicle systems and align and link them, as much as possible, with other existing state traffic records systems.

Objective: Institute improvements to Colorado's Crash Records alignment with the recommendations of the most recent Traffic Records Assessment.

Tasks:

- Monitor progress on electronic data transmission and ensure that the STRAC has the information it needs to provide meaningful oversight and assistance.

- Develop a plan to meet the eventual need to serve small-to-medium size law enforcement agencies with a method to collect and transmit their crash report data electronically.

- Ensure the quality of the entry of location codes and associated error correction. Include thorough training of the temporary workers and continuous monitoring of the work products.

- Expand and formalize the quality control process for crash data, to include the following components by:

    - Documenting a comprehensive set of edit checks that apply to all crash data entry, whether in DOR from paper reports or in the field by law enforcement officers using field data collection software.

    - Using a listing of corrections made at CDOT during data cleansing to enhance the accuracy of future reporting through officer training.

    - Returning reports containing errors to the originating agency/officer for correction.

    - Tracking the time it takes law enforcement agencies to submit corrected reports.

    - Tracking the most frequent reasons for returning a crash report for correction, and using this information for feedback and training.

    - Establishing operationally meaningful data quality metrics measuring timeliness, accuracy, and completeness for all crash reporting.

- Managing "by the numbers" focusing on improving data quality through continuous monitoring and corrective action when the metrics show unacceptable data quality.

Objective: Institute improvements to Colorado's Crash Records alignment with the recommendations of the Crash Data Improvement Program Assessment.

Tasks:
- To be determined upon complete review and analysis of improvement recommendations.

Objective: Institute improvements to Colorado's Citation and Adjudication Records in alignment with the recommendations of the most recent Traffic Records Assessment.

Tasks:
- Finalize the various components of a statewide electronic citation process such as a data dictionary, business (validation) rules, quality metrics, etc. for use by agencies and vendors.

- Develop strategies and an implementation that will promote use of electronic citations in the law enforcement community and courts.

- Expand the SCAO & CJIS repositories or alternate repositories to include all citations.

Objective: Promote uniform location coding protocols for both on-system and off-system data.

Tasks:
- Support projects that promote increased GIS/GPS event pinpointing and mapping.

- Support local initiatives to adopt and incorporate uniform location coding protocols.

Strategic Goal: **To meet user needs by providing robust resources for traffic data analysis and reporting.**

Objective: Institute improvements to analytic capabilities in alignment with the recommendations of the most recent Traffic Records Assessment.

Tasks:
- Design an annual Problem Identification report that meets the needs of program managers in OTS and that can be used by safety managers the general user population.

- Use the recommended revised Problem Identification reports to position OTS as the lead for developing behavior-related safety countermeasures and soliciting proposals based on identified problem regions and subpopulations.

- Provide for ongoing, year-round capabilities to generate ad hoc analyses and reports specific to the behavioral issues and countermeasures of the "six pack" of

program areas and typical requests for information as fielded by the CDOT Public Relations Office.

- Develop in-house analytic capabilities within OTS, with a combination of strong data reporting and communication skills.

Objective: Identify and support user needs for Traffic Records data.

Tasks:
- Develop a comprehensive list of those who have a stake in or use traffic records data in Colorado.

- Invite key users to participate in data use planning.

- Develop data use assessment tools to create greater accessibility.

- Support projects that respond to ongoing broad-based data use needs of identified users, to include a web access for resident queries of Colorado's crash data.

Membership in the STRAC Committee

Voting Agencies and the Assigned Members:
- Department of Public Safety   Major Barry Bratt
- Department of Revenue   Mr. Steve Monson
- Department of Transportation   Ms. Alisa Babler
- Department of Public Health and Environment   Ms. Nicole Richmond
- Department of Human Services   Mr. Webster Hendricks
- State Judicial Branch   Ms. Tracy Walter
- Office of Information Technology   Ms. Stephanie Leigh

Federal Agencies:
- National Highway Traffic Safety Administration (NHTSA)
- Federal Motor Carriers Safety Administration (FMCA)
- Federal Highway Administration (FHWA)

State Associations:
- Colorado Chiefs of Police Association
- Colorado Sheriff's Association
- Mothers Against Drunk Drivers Association
- Colorado District Attorney's Association
- Colorado Motor Carrier's Association
- Bicycle Colorado
- Colorado Local Technical Assistance Program

Local Agencies:
- Denver Regional Council of Governments
- City and County Officials
- City and County Law Enforcement
- Coroner's Office
- Higher Education

Other Participants:
- Any other person, association, or governmental agency with a demonstrated interest in traffic records and accepted as a participant by a majority of the Voting Members.

STRAC Officers:
- Chairperson   Major Barry Bratt - CDPS
- Vice Chairperson   Mr. Steve Monson – CDOR
- Secretary   Mr. David Bourget – CDOT
- Sergeant at Arms   Mr. Glenn Davis - CDOT

Team Leads:
- Injury Surveillance   CDPHE
- Citation/Adjudication   State Judicial
- Crash Records & Roadway Files   CDOT
- Crash, Driver Licensing & Vehicle Records   CDOR
- STRAC Committee   STRAC Officers