

**Quality and Productivity Commission
31st Annual Productivity and Quality Awards Program
"Celebrating Quality Service"**

2017 APPLICATION

Title of Project (Limited to 50 characters, including spaces, using Arial 12 point font):

NAME OF PROJECT: VISION ZERO COLLISION GEODATABASE

DATE OF IMPLEMENTATION/ADOPTION: MARCH 2, 2016
(Must have been implemented at least one year - on or before July 1, 2016)

PROJECT STATUS: Ongoing One-time only

HAS YOUR DEPARTMENT PREVIOUSLY SUBMITTED THIS PROJECT? Yes No

EXECUTIVE SUMMARY: Describe the project in 15 lines or less using Arial 12 point font. State clearly and concisely what difference the project has made.

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The Vision Zero Collision Geodatabase is a web-based application developed by the Department of Public Works that utilizes GIS to map locations at which traffic collisions have occurred in the unincorporated County areas. Through this powerful tool, corridors experiencing the highest concentrations of collisions can now be readily identified on maps. Such visualization assists with determining the highest traffic safety needs in the unincorporated County areas and prioritizing resources to strategically implement safety enhancements.


The County's newly launched Vision Zero initiative utilizes a multi-disciplinary partnership among various agencies and stakeholders to comprehensively address traffic safety through engineering, enforcement, education, and evaluation strategies. The Geodatabase is essential in evaluating collision data, and focusing initiatives through a data-driven process.


BENEFITS TO THE COUNTY

(1) ACTUAL/ESTIMATED ANNUAL COST AVOIDANCE	(2) ACTUAL/ESTIMATED ANNUAL COST SAVINGS	(3) ACTUAL/ESTIMATED ANNUAL REVENUE	(1) + (2) + (3) = TOTAL ANNUAL ACTUAL/ESTIMATED BENEFIT	SERVICE ENHANCEMENT PROJECT
\$	\$	\$	\$	<input checked="" type="checkbox"/>

ANNUAL = 12 MONTHS ONLY

SUBMITTING DEPARTMENT NAME AND COMPLETE ADDRESS Department of Public Works 900 South Fremont Avenue Alhambra, CA 91803	TELEPHONE NUMBER 626-458-5100
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PROGRAM MANAGER'S NAME Dean R. Lehman 	TELEPHONE NUMBER 626-300-4700
DATE 7/31/17	EMAIL dlehman@dpw.lacounty.gov

PRODUCTIVITY MANAGER'S NAME AND SIGNATURE (PLEASE CALL (213) 893-0322 IF YOU DO NOT KNOW YOUR PRODUCTIVITY MANAGER'S NAME) Leslie Schenk 	TELEPHONE NUMBER 626-458-5946
	EMAIL lschenk@dpw.lacounty.gov

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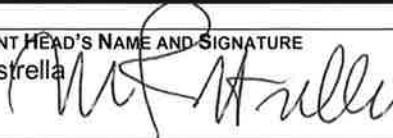
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DEPARTMENT HEAD'S NAME AND SIGNATURE

Mark Pestrella



DATE

7/5/17

TELEPHONE NUMBER

(626) 458-4001

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1st FACT SHEET – LIMITED UP TO 3 PAGES ONLY: Describe the **challenge(s), solution(s), and benefit(s)** of the project. What quality and/or productivity-related outcome(s) has the project achieved? Provide measures of success. Use Arial 12 point font.

Challenge:

Motor vehicle crashes are a serious public health problem in the United States (U.S.). Compared with 19 other high income countries, the U.S. has the highest rate of motor vehicle crash deaths (10.3 traffic deaths per 100,000 population). In the County of Los Angeles, motor vehicle collisions are the leading cause of death for children from ages 5 to 14 and the second leading cause of death for children from ages 1 to 4; young people 15 to 24 years of age; and adults from ages 25 to 44. In addition to the tragic human costs, the economic cost of fatalities and severe injuries in the County is estimated at \$1.3 billion.

To address this serious public health problem, prioritizing projects that reduce fatalities and severe injuries on our roadway network is essential. However, prior to creating the Vision Zero Geodatabase, the collision concentration information used to prioritize projects was not in a format where it was readily apparent to Public Works staff. An engineer evaluating collision concentrations would have to read each collision report and manually plot the collision on a map. These collision maps were burdensome to update and not easily filterable by collision factors. Collision concentration maps were regularly requested by law enforcement or other agencies such as the State of California to apply for grant funding for projects. This practice was very time consuming and a barrier to providing this information in a way that was easy to understand.

Solution:

Critical to the Vision Zero Initiative is the need to implement safety improvements and programs that are consistent with what the data reveals to be the greatest problem areas. By creating a system that identifies areas with the highest concentrations of traffic related deaths and severe injuries, along with the primary factors associated with collisions (i.e., speeding, distracted driving, or age groups), stakeholders can strategically develop and implement safety measures and programs that specifically address the root factors contributing to fatal and severe injury collisions. The Vision Zero Collision Geodatabase is an integral part of this process. The objective of the Vision Zero Collision Geodatabase is to equip the stakeholder team with a powerful tool through which the greatest traffic safety needs can be determined.

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Benefit:

The mapping visuals provided through the Geodatabase and identification of collision “hot spots” were instrumental in demonstrating the need for the Board to move forward with a County Vision Zero initiative. The geodatabase also identified several key challenge areas which included: unsafe speed, motorcyclist, pedestrians, young males between the ages of 25 and 34, hit-and-run collisions, and impaired and distracted drivers.

In addition to displaying traffic collision data visuals, the system can filter through an enormous amount of data instantly and display an array of parameters that will inform decision makers in developing appropriate counter-measures to reduce collisions.

The California Highway Patrol (CHP) has and will continue to be an integral partner in Vision Zero. The CHP enforces moving violations in the unincorporated communities of Los Angeles County and is responsible for preparing Traffic Collision Reports for all reported traffic collisions that occur on unincorporated County roadways. Information recorded in the CHP’s reports include date, time, location, violation, parties involved, gender, sobriety, roadway conditions, and other vital information. Copies of the completed reports are transmitted to Public Works through a secured website and pertinent information from the reports is entered into the Vision Zero Collision Geodatabase by department staff.

In addition to the CHP, the County of Los Angeles Department of Public Health (Public Health) has contributed in the development of the new Geodatabase. Through a collaborative effort with Public Health, future expansions of the Geodatabase may incorporate additional data sets such as data from the Department of Medical Examiner-Coroner or emergency response data to further help pin-point pertinent factors associated with traffic-related deaths and severe injuries.

Such collaboration and foresight should serve to enhance the County’s efforts to study, develop, and implement problem-specific and location-specific improvements to enhance traffic safety in a focused, efficient, and cost-effective manner. For example, the capability of the Geodatabase to create “heat maps” showing areas throughout the County unincorporated areas that have the highest concentrations of certain types of collisions, violations, or any other data field, will greatly assist in filtering large amounts of information to identify the greatest trends and challenges facing traffic safety. The added ability to filter collision data to highlight specific details of traffic collisions, such as victim age, modes of transportation, primary collision factor, and sobriety, allows the project team to hone in and develop countermeasures among the Vision Zero.

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The Geodatabase is also capable of displaying the collision history at specific intersections or midblock locations. Each collision is placed as a point on a Google Map layer using the coordinates obtained from the traffic collision reports. With this feature, the user can utilize the Google Streetview feature to perform a preliminary review of the collision location at their fingertips.

Moving forward, the Geodatabase will continue to provide Public Works staff with a much clearer vision towards addressing traffic safety. By identifying roadway networks with high concentrations of fatal or severe injuries, and by understanding the various factors contributing to these collisions, County personnel and stakeholders can work together to develop appropriate countermeasures and projects to eliminate or reduce these collisions in a much more effective manner. The County's Vision Zero Collision Geodatabase is the cornerstone supporting this effort.

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Linkage to the County Strategic Plan – 1 page only. Which County Strategic Plan goal(s) does this project address? Use Arial 12 point font.

The Vision Zero Geodatabase addresses the following Strategies in the County’s newly adopted Strategic Plan:

Strategy II.2.4 - Promote Active and Healthy Lifestyles: Conduct outreach to high need, traditionally underserved populations within the County by supporting safe and comfortable built environments that encourage physical activity and access to healthy food.

The Vision Zero Geodatabase will assist Public Works and Public Health staff in prioritizing projects to address roadway fatalities and enhance the overall safety of our roadways. Although there is much interest in active transportation, one of the largest barrier to people choosing walking or biking as a transportation mode is concerns about traffic safety. Using the database, the County’s resources can first be used for safety enhancement projects on corridors and intersections with some of the highest probabilities of fatalities or severe injuries. As other agencies, have moved towards a goal of zero roadway fatalities through the prioritization of safety projects, public confidence of walking and biking as a safe mode of travel has increased.

Strategy III.2.1 – Enhance Information Technology Platforms to Securely Share and Exchange Data: Establish a shared information management platform to enable County departments to identify common clients, securely share and exchange data to coordinate service delivery, and perform data-driven analytics to achieve outcomes in support of Board Priorities and other Countywide initiatives.

The Vision Zero Geodatabase will provide the opportunity for Public Works and Public Health staff to easily share collision data. Additionally, Public Works will have the opportunity to incorporate more complex data analytics applications to view collision history and trends into the database.

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COST AVOIDANCE, COST SAVINGS, AND REVENUE GENERATED (ESTIMATED BENEFITS TO THE COUNTY): If you are claiming cost benefits, include a calculation on this page. Please indicate whether these benefits apply in total or on a per unit basis, e.g., per capita, per transaction, per case, etc. You must include an explanation of the County cost savings, cost avoidance or new revenue that matches the numbers in the box. Remember to keep your supporting documentation. Use Arial 12 point font

Cost Avoidance: Costs that are eliminated or not incurred as a result of program outcomes. Please indicate whether these are costs to the County or to other entities.

Cost Savings: A reduction or lessening of expenditures as a result of program outcomes. Please indicate whether these were expenditures by the County or by other entities.

Revenue: Increases in existing revenue streams or new revenue sources to the County as a result of program outcomes.

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