

CITY OF LOS ANGELES
INTER-DEPARTMENTAL MEMORANDUM

Date: February 16, 2018

To: Honorable City Council
c/o City Clerk, Room 395
Attention: Honorable Mike Bonin, Chair, Transportation Committee

From: Seleta J. Reynolds,  General Manager
Department of Transportation

Subject: **RECEIPT OF TOYOTA MOBILITY FOUNDATION GRANT THROUGH MAYOR'S FUND**

SUMMARY

The Information Technology Agency (ITA) and the Department of Transportation (DOT) request approval to accept grant funding in the amount of \$59,000 from the Mayor's Fund and the Toyota Mobility Foundation.

The ITA and DOT are also requesting to appropriate funds to respective department accounts upon availability of funds.

RECOMMENDATION

1. Authorize the General Manager of the Information Technology Agency, or designee, to accept a grant from Mayor's Fund & Toyota Mobility Foundation in the amount of \$41,000.
2. Deposit grant receipts in the amount of \$41,000 to Fund 100 Dept 32 and appropriate therefrom \$34,000 to Account 003040 Contractual Services and \$7,000 to Account 006010 Software Licensing.
3. Authorize the General Manager of the Department of Transportation, or designee, to accept grant from Mayor's Fund & Toyota Mobility Foundation in the amount of \$18,000.
4. Deposit and appropriate funds in the amount of \$18,000 to DOT Fund 655 Account 94XXXX Toyota Mobility Foundation Pilot Account.
5. Authorize ITA and DOT to prepare Controller instructions to make any necessary technical corrections, subject to approval of the City Administrator's Office.

DISCUSSION

The Department of Transportation, Information Technology Agency, California State University - Los Angeles (CSULA), and the Mayor's Fund collaborated on a grant application to the Toyota Mobility Foundation to fund research into the use of ATSAC cameras and computer vision/machine learning technologies to automatically count bicyclists and pedestrians as they are recognized in the City's ATSAC

cameras. Toyota Mobility Foundation awarded a grant totaling \$89,000 to be divided between CSULA, ITA, and DOT, as described in the table below:

Recipient	Amount	Description
CSULA	\$30,000	Fund graduate student researchers, software investment
ITA	\$41,000	Cloud infrastructure, data scientist time
DOT	\$18,000	Video recording equipment

This project builds on CSULA's membership in the Data Science Federation (DSF), a City of Los Angeles initiative to help bring new ideas to City data challenges by partnering with local colleges and universities. This project uses existing ATSAC video cameras in the Arts District neighborhood to record traffic data (including vehicles, bicyclists, and pedestrians) and analyzes the data with a software program developed by CSULA to identify and count bicyclists and pedestrians. The goals of this project are to improve the availability of reliable active transportation behavior data in the pilot area, and to demonstrate a novel approach to training computer vision algorithms based on the City's own data collection process.

ITA will use \$41,000 from the grant for project management and deployment of algorithms on cloud infrastructure. Project manager support will include coordination, software issue management, video specification documentation, and other related project management work. Cloud infrastructure will include servers, storage space, and other pay as you go software under the City's existing contract with Amazon Web Services. DOT will use the \$18,000 in funding for increases in video coverage infrastructure (cameras, recording software, installation, maintenance) during the current fiscal year.

FINANCIAL IMPACT

There is no additional impact to the General Fund in the current year with the approval of the above recommendation. The recommendation in this report is consistent with the City's Financial Policies.