



Office of the City Manager

CONSENT CALENDAR  
May 16, 2017

To: Honorable Mayor and Members of the City Council  
From: Dee Williams-Ridley, City Manager  
Submitted by: Savita Chaudhary, Director, Department of Information Technology  
Subject: Contract No. 9791 Amendment: Environmental Systems Research Institute, Inc. (Esri) for Enterprise Geographical Information Systems (GIS) Software License Maintenance and Support

RECOMMENDATION

Adopt a Resolution authorizing the City Manager to execute a contract and any amendments with Environmental Systems Research Institute, Inc. (Esri) for Enterprise GIS software license maintenance and support increasing the amount by \$225,000 for a not-to-exceed total of \$396,000 for the period of July 1, 2014 through June 30, 2020.

FISCAL IMPACTS OF RECOMMENDATION

Funding is allocated in the Department of Information Technology’s Fiscal Year 2018-2020 General Fund as follows:

- \$75,000 FY 2018: Software Maintenance  
Budget Code: 010-2702-410-3047  
(General Fund, Information Technology, Software Maintenance)
- \$75,000 FY 2019: Software Maintenance  
Budget Code: 010-2702-410-3047  
(General Fund, Information Technology, Software Maintenance)
- \$75,000 FY 2020: Software Maintenance  
Budget Code: 010-2702-410-3047  
(General Fund, Information Technology, Software Maintenance)

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**\$225,000 Total FY 2018-2020 Software Maintenance**

Appropriation of this funding is subject to Council’s approval of the city-wide Fiscal Year 2018 and Fiscal Year 2019 Adopted Biennial Budget and Annual Appropriation Ordinances.

The contract has been entered into the City’s contracts management system and assigned CMS H8RBS.

### CURRENT SITUATION AND ITS EFFECTS

Environmental Systems Research Institute, Inc. provides essential Geographic Information System (GIS) services and software to City staff and community members through internal and external web-sites. The City's current GIS enterprise license agreement (ELA) with Esri expires June 30, 2017. This contract will continue use of Esri's online GIS services as well as renewal of enterprise GIS software license which includes maintenance and support from FY2018 through FY2020.

### BACKGROUND

City staff began using Esri GIS software in 2000. Initially, this use was confined to single projects on a few desktops. Often, GIS gave staff better tools for analyzing land use when preparing a general plan, for example; as the benefits of GIS became more widely known, GIS services expanded to other departments such as Public Safety, Public Works, Planning and Development. In 2005, the Department of Information Technology (IT) began using Esri data and web server software to build the city's current Enterprise GIS, making GIS technology accessible throughout the organization. In 2008, IT consolidated the various departmental Esri software maintenance agreements into an enterprise license agreement, the Small Municipal and County Government ELA program. Enterprise license agreement allows unlimited number of users to use Esri GIS products and services. In 2016, IT migrate its Enterprise GIS data from a legacy data model to Esri's "Local Government Information Model" (LGIM) in order to leverage generic services, applications, and workflows made available by Esri for deployments that use the LGIM.

The City uses Esri services and software to provide layers of authoritative data, map services and web applications. Esri map services are integrated into essential business applications including public safety dispatch, licensing, permitting, asset management, CRM, and vehicle routing. Use of Esri products by City staff has been on the rise across departments including to create custom mapping, data analyses including crime analysts, planners, engineers, and solid waste supervisors. Numerous staff members across departments use web-based Esri GIS solutions in their daily work including permit center counter staff, customer service representatives and public safety dispatchers.

The City also uses Esri services and software to provide GIS solutions to the Berkeley community including a parcel conditions viewer, redistricting maps and data, zoning maps and numerous other maps. Esri online GIS site, ArcGIS Online, hosts the city's story maps for capital improvement projects and City parks, as well as web maps for bicycle parking, tobacco retailer's restricted areas and solar installations. GIS data in Esri format, including parcels, streets, council districts, police beats, bikeways and City trees is available for download from the City's Open Data portal. Esri is an international supplier of GIS services and software. The company is headquartered in Redlands, California. Esri's ArcGIS software is an open and interoperable technology platform that provides mapping, analysis and data management.

### ENVIRONMENTAL SUSTAINABILITY

Esri GIS provides the technological and scientific support necessary to create programs and processes that increase environmental sustainability. Public Works uses Esri desktop software to increase the efficiency of fleet vehicles by optimizing standard routes and subsequently reducing fuel consumption. Planning uses Esri's ArcGIS Online to promote investment in solar energy.

Esri GIS services and software support the city's digital map room. This reduces paper usage and the need for community members to visit the City to purchase paper maps.

#### RATIONALE FOR RECOMMENDATION

GIS is integral to City operations, decision making, and communication. Esri GIS services and software provide geographic information to those who need it including analysts, decision makers, field staff, and the public through mobile, Web, and desktop clients. Esri's ELA program provides a cost-effective way to deploy GIS into city operations and business processes such as permitting, licenses, CRM, asset management and public safety dispatch. The ELA program provides numerous benefits including:

- A lower cost per unit for licensed software and substantially reduced administrative and procurement expenses
- Maintenance on all Esri software deployed under the agreement
- Complete flexibility to deploy software products when and where needed
- ArcGIS for Desktop software and extensions including ArcGIS Spatial Analyst and 3D Analyst, ArcGIS for Server software for interactive mapping and data management, and ArcGIS Online subscription (Esri's online GIS site for hosted mapping, routing and demographics analyses)
- 4 user conference passes for staff, and Web Training
- Authorized Technical Support Callers

#### ALTERNATIVE ACTIONS CONSIDERED

Staff considered not renewing Esri's licenses, however Esri retains exclusive rights to their software. Esri is the industry leader of GIS software, they have developed a platform including an expansive network of third party software vendors to offer extended solutions that the City utilizes, such as Accela, RouteSmart and New World. Furthermore, Esri software is used by most jurisdictions in the region, which offers potential GIS data sharing for regional coordination initiatives.

#### CONTACT PERSON

Savita Chaudhary, Director, Department of Information Technology, 510-981-6541

Attachments:

1: Resolution

RESOLUTION NO. ##,###-N.S.

CONTRACT NO. 9791 AMENDMENT: ENVIRONMENTAL SYSTEMS RESEARCH INSTITUTE, INC. (ESRI), FOR GIS ENTERPRISE SOFTWARE LICENSE MAINTENANCE AND SUPPORT

WHEREAS, the City of Berkeley's current enterprise license agreement with Esri expires July 24, 2014; and

WHEREAS, Esri provides essential GIS services and software to City staff and community members; and

WHEREAS, the City of Berkeley has identified the need to continue use of Esri's GIS professional services and software; and

WHEREAS, the Esri licensing agreement, the Small Municipal and County Government Enterprise License Agreement program provides a cost-effective way to deploy GIS into the city operations and business processes; and

WHEREAS, the contract scope of services and payment will coincide with an Esri licensing agreement, the Small Municipal and County Government Enterprise License Agreement program; and

WHEREAS, funding has been identified in the Department of Information Technology's Fiscal Year 2018, Fiscal Year 2019, and Fiscal Year 2020's General Fund, and entered into the City's Contract Management System (CMS) and assigned CMS No. H8RBS.

NOW THEREFORE, BE IT RESOLVED by the Council of the City of Berkeley that the City Manager is authorized to execute an amendment to Contract No. 9791 with Environmental Systems Research Institute, Inc. (Esri), Redlands, CA for online Geographic Information System (GIS) software license maintenance and support increasing the amount by \$225,000 for a not-to-exceed total of \$396,000 for the period of July 1, 2014 through June 30, 2020.