



Office of the City Manager

CONSENT CALENDAR
January 21, 2020

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 Graphical Information Systems (GIS) Software License Maintenance and Support

RECOMMENDATION

Adopt a Resolution authorizing the City Manager to execute an amendment to Contract No. 9791 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 \$621,000 for the period of July 1, 2020 through June 30, 2023.

FISCAL IMPACTS OF RECOMMENDATION

Funding is allocated in the Department of Information Technology’s Cost Allocation Budget and is subject to Council’s approval of the proposed citywide Budget and Annual Appropriation Ordinances:

- \$75,000 FY 2021: Software Maintenance
Budget Code: 680-35-362-376-0000-000-472-613130
(General Fund, Information Technology, Software Maintenance)
- \$75,000 FY 2022: Software Maintenance
Budget Code: 680-35-362-376-0000-000-472-613130
(General Fund, Information Technology, Software Maintenance)
- \$75,000 FY 2023: Software Maintenance
Budget Code: 680-35-362-376-0000-000-472-613130
(General Fund, Information Technology, Software Maintenance)

\$225,000 Total FY 2021-2023 Software Maintenance

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 websites. Esri is an international supplier of GIS services and software and their ArcGIS software is an open and interoperable technology platform that provides mapping, analysis, and data management.

Currently the City uses GIS addresses in many aspects of our daily operations such as:

- Reviewing and approving development related projects that require the issuance of building permits.
- Identifying addresses to send out information about community programs and events.
- Sending out bills, submitting property tax assessment data to Alameda County and for business license renewals.
- Responding to service calls and fire inspections.

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 is on the rise across departments to create custom mapping, data analysis 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's current GIS enterprise license agreement (ELA) with Esri expires June 30, 2020. This contract will continue use of Esri's online GIS services as well as renew enterprise GIS software license, which includes maintenance and support for the period of July 1, 2020 through June 30, 2023.

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 and 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 various departmental Esri software maintenance agreements into an enterprise license agreement (ELA), the Small Municipal and County Government

ELA program. Enterprise license agreement allows unlimited number of users to use Esri GIS products and services.

In 2015, the City launched the Open Data Portal that uses GIS data in Esri format, including parcels, streets, council districts, police beats, bikeways and City trees. The data is available for download from the City's Open Data portal.

In 2016, IT migrated 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.

In 2019, IT launched the GIS Community Portal (<https://www.cityofberkeley.info/gisportal/>). This portal features a custom widget that allows community members to enter an address and receive regulation information for the entered property.

Additionally, the City 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. The 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.

The City's Pedestrian Master Plan update process began in 2018 and continued through 2019. The Transportation Division is soliciting feedback via an interactive GIS based wikimap, <http://wikimapping.com/wikimap/Berkeley-Pedestrian-Master-Plan.html#.W1EIL9hKiys>. They invite the community to show us where and why you walk in Berkeley by drawing and commenting on the map.

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. The GIS Community Portal allows residents, businesses, city officials, and developers the ability to better understand what zoning and land use policies apply to properties of interest to them, without the need to call staff necessarily.

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 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 an industry leader of GIS software who has developed a platform that includes an expansive network of third party software solutions that the City utilizes. These solutions include but are not limited to Accela, RouteSmart, and New World computer aided dispatch (CAD). Furthermore, Esri software is used by most jurisdictions in the region, which offers potential GIS data sharing for regional coordination initiatives.

CONTACT PERSON

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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 June 30, 2020; 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 2021 Cost Allocation Budget and the funding for FY 22 and FY 23 is subject to Council's approval of the proposed citywide Fiscal Year 2022 and Fiscal Year 2023 Budget and Annual Appropriation Ordinances.

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) for online Geographic Information System (GIS) software license maintenance and support increasing the amount by \$225,000 for a not-to-exceed total of \$621,000 for the period of July 1, 2020 through June 30, 2023.

