

Clause 13 in Report No. 10 of Committee of the Whole was adopted, without amendment, by the Council of The Regional Municipality of York at its meeting held on May 21, 2015.

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Extending the Esri Enterprise Licence Agreement

Committee of the Whole recommends adoption of the following recommendations contained in the report dated April 29, 2015 from the Commissioner of Corporate Services:

1. Recommendations

It is recommended that:

1. Council authorize an extension of the contract between the Region, Esri Canada Limited and Esri Inc. for an Esri Enterprise Licence Agreement required for York Region's Geographic Information System, consistent with the Direct Purchase provisions of the Purchasing Bylaw on the following terms:
 - a. The contract be extended for a further term of four years, from May 3, 2015 to May 2, 2019, under the terms and conditions outlined in this report.
 - b. The Region pays Esri Canada a total of \$940,000 divided into annual installments of \$235,000 over the term of the four-year contract extension (exclusive of taxes).
2. Council authorize the Commissioner of Corporate Services to execute the necessary amendment to the contract.

2. Purpose

This report seeks Council authorization to extend the current contract between the Region, Esri Canada and Esri Inc. for a further term of four years for York Region's Geographic Information Systems (GIS) software by way of the Esri Enterprise Licence Agreement. In seeking authority for the contract extension, this report also requests approval of a Direct Purchase, consistent with the

provisions of Section 9 of the Purchasing Bylaw, on the basis the paramount consideration in seeking the contract extension is compatibility with existing equipment and service.

3. Background

In 2012, York Region entered into an Enterprise Licence Agreement with Esri

In June 2012, the Region awarded a contract for an Esri Enterprise Licence Agreement of a three-year term valued at \$570,000.

An Esri Enterprise Licence Agreement “agreement” provides Esri customers with large software installations access to unlimited licences of core Esri GIS software. In addition to unlimited software, the agreement includes maintenance and support all at a negotiated price for the set term.

The current agreement does not contain a renewal provision; however, Esri GIS software is a requirement of the Region to continue providing mapping capability for the Region’s business areas, partners and the public. In Canada, Esri Canada is the exclusive distributor of Esri GIS software produced by Esri Inc.

York Region is a large producer and user of mapping data

It is estimated that 80% of all data a municipal government collects is associated with a location. York Region services such as policing, transit, roads, traffic, water, wastewater, public health, paramedicine, land development, and solid waste management all rely on mapping to show and analyze the location of resources, assets, and boundaries. The Region manages its own mapping data and acquires mapping data such as demographic data, aerial photography, property ownership and assessment data.

GIS technology manages and distributes mapping data

Geographic Information Systems (GIS) is the technology which creates, manages, analyzes, publishes and shares mapping data. GIS software produced by Esri Inc. is a critical part of the GIS capability at the Region. GIS technology is relied upon by many internal departments and external organizations throughout York Region for a range of tasks such as:

- Adding new roads and addresses to the database used by the Local Municipalities in their GIS; and, by Police, Fire and EMS for dispatch operations

- Creating custom maps for Council Reports, for example, showing the location of 10-year capital projects and the location of the facilities
- Calculating program measures such as the percent of Region's population located near transit
- Providing the public access to the Region's mapped data through YorkMaps - for example, to help land owners determine if they are in a vulnerable wellhead protection zone
- Mapping recreation facilities, parks and trails.

GIS capability at the Region will continue to evolve as communication with maps is increasingly recognized as effective for business areas and as more data becomes available to refine service planning and delivery.

The Geographic Information Services Branch (GISB) has coordinated the Region's investment in GIS since 1994

GISB leads the corporate coordination and support of GIS technology and data for York Region. The Region purchased its first GIS software in 1994 from Esri Canada – Esri's Canadian distributor.

Advances in technology and business have resulted in continuous growth in use of GIS at the Region. Esri GIS software integrates seamlessly into the Region's Salesforce corporate customer relationship management system, and the buildings and facility management system. Growth management systems require tight integration into Esri GIS. York Region Police are also committed to further capitalize on Esri GIS software in the coming years to support analytics.

4. Analysis and Options

York Region's Esri Enterprise Licence Agreement (ELA) can be extended

The ELA was established in June 2012 and expired on May 02, 2015. Esri Canada has allowed York Region to continue with the existing agreement while the Region obtains authority from Council to enter into an extension agreement.

Extending the Esri ELA allows the Region to continue to deploy GIS solutions and add users when and as needed by the business areas. Unlimited licensing of Esri GIS software allows flexibility in the way business solutions are developed and deployed. New Esri software available through the Esri ELA enables the Region to embrace innovative solutions that could otherwise be cost prohibitive.

Esri Enterprise License Agreement

This includes 3D visualization software and GIS software to make use of real-time data from social media and sensors.

Administrative efficiencies will be realized through streamlined procurement and corporate management of Esri GIS software licences. The total cost of extending the Esri ELA is \$940,000 over the four year term.

Esri GIS software is relied upon by the YorkInfo Partnership

All YorkInfo Partnership member organizations including the nine local municipalities, two conservation authorities and the two school boards use Esri GIS software to maintain their mapping data. This data is shared and used with Esri GIS software to support operational business needs and project requirements. Examples of data sharing include mapped data of the water and wastewater pipe network from the local municipalities, 100-year flood zones from the conservation authorities, and school locations from the school boards.

The benefits to the Region continuing with Esri GIS software include:

- Being able to share data easily with Partners
- Coordinated GIS software training and best-practice sharing
- Mutual support in the case of emergencies where mapping is required
- Increased integrity with projects such as the Regional and local official plan mapping
- Sharing business solutions such as property notification
- Out-of-the-Box integration into other corporate business systems, such as Salesforce.

All YorkInfo Partners have significant training in Esri GIS software

For over 14 years, York Region has provided training on Esri GIS software. Over 300 staff from the Region and 57 staff from other YorkInfo Partnership member organizations have taken courses on Esri GIS software. This has led to building data, analytics and mapping capacity in all Partner organizations in support of program and service delivery.

Many other government organizations have standardized on Esri GIS software

The Regional Municipalities of Durham, Halton and Peel, as well as Simcoe County and the City of Toronto have a corporate investment in Esri GIS software. The Province of Ontario, Ontario Provincial Police and Department of National Defence are also users of Esri GIS software.

York Region has a corporate investment in Esri GIS Software

Esri's GIS software directly or indirectly supports 14 business systems across the Region. This includes police and fire dispatch, transit systems, and land-development tracking. Many business applications cannot function without Esri GIS software. This includes CityWorks, used daily for roads work order management and the Street Tree inventory. YorkMaps, the Region's web mapping application, requires Esri GIS software. YorkMaps allows staff, residents and other agencies to retrieve mapping information and answer questions from the mapped information.

York Region receives good value from the Esri ELA

The contract value of the current three-year Esri ELA is \$570,000. When comparing the value of the contract extension, we are aware that other jurisdictions pay similar annual costs. Durham Region extended their Esri ELA for an additional three years in 2013 at an annual cost of \$256,000.

York Region's GIS program is recognized as being one of the most comprehensive municipal GIS programs in Canada. One of the reasons is the large number of Esri GIS software licences deployed and relied upon by every department as well as the linkage to external partner organizations.

5. Financial Implications

An analysis was completed on the cost of purchasing individual licenses based on the 4 year requirements received from each of the Departments and the York Regional Police. It is estimated the cost to purchase individual licenses and maintenance would be approximately \$1,400,000 over the 4 years.

Based on this analysis, extending the ELA will be financially beneficial over Esri's standard licensing model.

The four-year Esri ELA extension is \$940,000 payable in equal annual installments of \$235,000 (exclusive of taxes). Funding has been incorporated in the approved 2015 ITS budget. The cost certainty over the four years is beneficial for multi-year financial planning.

6. Local Municipal Impact

Compatibility with the local area municipalities, surrounding governments, and the province is important for ongoing business operations that rely on mapping. The Region's continued use of Esri GIS software will mean the local municipalities will experience no service disruption in receiving and sending mapping data to the Region and can continue with no-cost GIS training offered by the Region.

7. Conclusion

Compatibility is a paramount consideration in the continued use of Esri GIS software at the Region. Staff job requirements, existing GIS datasets, internal business systems, and public facing mapping applications all rely on Esri GIS software. Esri Canada is the exclusive distributor of Esri GIS software in Canada.

The initial Esri ELA term of May 3, 2012 - May 2, 2015 was a financially prudent arrangement that benefited the Region. Extending the Esri ELA for the term of May 3, 2015 – May 2, 2019 at \$940,000 is good value given the extent and depth to which York Region uses GIS to support all Departments and partner organizations. Extending the Esri Enterprise Licence Agreement is the most cost-effective option supporting the future growth projected of GIS at the Region.

For more information on this report, please contact John Houweling at ext. 71529.

The Senior Management Group has reviewed this report.

April 29, 2015

Attachments (0)

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Accessible formats or communication supports are available upon request