Location-based or "geospatial" information and technologies play a vital role in enhancing public and private sector decision-making and in the management of policy, social, environmental and economic development issues. (GIAC.CA)

The objective of the Regional GIS service is to provide the “Core” infrastructure that will enable all members to utilize GIS technology within their organization. This will include the hardware, software and maintenance of data as outlined within this report.

This creates a foundation that each member can build from should they desire additional functionality, enabling them to focus on things that have added value for their organization.

The following services will be provided by the Regional District of Central Okanagan:

Governance
Governance through a Steering Committee made up of representatives from the member municipalities.

The primary function of the Steering Committee is to take responsibility for the feasibility, business case and the achievement of outcomes of the Regional GIS Service. The Regional GIS Steering Committee will monitor and review the project status, as well as provide oversight.

Service Requests
In order to deliver efficient and cost effective services, staffing levels will be kept to the minimum required to support the core information. Service requests outside core information and greater than two days’ work would have to be passed through the Steering committee or additional staff could be contracted on an as-needed basis.

GIS Support
Project oversight will be provided should a municipality engage in initiatives beyond the regional service provided. This will help to ensure best practices and a smooth integration with the core information.

Data Access / Hosting
Data will be hosted by the Regional district and be accessible through a network connection or the Internet. Any custom layers created can be hosted and accessed through the GIS Application or ArcGIS Online as well. The data will also be available for download.

Regular updates and information provided to:

- Emergency Operations Center
- 911, Fire & Rescue
- Regional Website and Public Internet Download

Maintenance of Core Information

All information is maintained at a consistent, professional standard of Cartography. The Regional GIS goal is to have all the core information updated as quickly and accurately as possible so that all members can rely on the GIS to make decisions and manage the business of their municipalities.

- **Cadastral base with new legal plans entered by co–ordinate geometry**
  The Cadastral updates are considered the highest priority. An average sized legal plan is completed within a week of receiving all the information from Land Titles and BC Assessment.

- **BC Assessment data tables**
  The BC Assessment data is downloaded and updated on a weekly basis.

- **Municipality Boundaries**
  The Municipality Boundaries are updated as required with the Cadastral Base and as additional information is made available to identify improvements.

- **Zoning Bylaw layers with amending Bylaws**
  Normal Zoning changes (minor adjustments) are completed within the week of receiving all the information required. Before being published in the GIS app the District requesting the changes will need to verify that graphical changes are correct.

- **Service Areas defined by a Bylaw.**
  Service areas defined by a bylaw and represented by a polygon will be updated upon receiving the amended or new bylaw. Examples – Fire protection areas, water areas…

- **Land Use Contract layers**
  Changes to the Land Use Contract layers are completed within two weeks of receiving all the information required.

- **Civic Address layers**
  Civic address layers are updated after cadastral updates and are completed weekly.

- **Road centerline data in conjunction with new roads created by new subdivisions**
  Road Centerlines are updated after cadastral updates and are completed weekly.

- **Relevant data layers from Official Community Plans and Rural Land Use Bylaws**
  Minor changes can be accommodated on a weekly basis. Extensive changes would be evaluated and estimate of completion provided.

Evaluation of all Data for Quality Assurance Standards
Additional layers that are requested to be hosted will be checked for quality assurance where applicable.

Required Server and Software Infrastructure
There is a significant investment in hardware, software and training to develop and deliver GIS services. All these components require maintenance and upgrades on a regular basis.

- **Production and Test Infrastructure:**
  - Database Server - Holds the ESRI Spatial Database Engine (ArcSDE)
  - Application Server - Holds the Primary GIS server Application (ArcGIS Server)
  - Desktop Applications
    GIS_App – Interactive Web Mapping Application
    ArcMap – Full featured GIS development environment
    MS Visual Studio – Used for application development

Links to other Data Sources
Where there is the ability to access information from other systems and there is a relevant link such as a folio, that information can be displayed within the GIS system. For example, Vadim financials for utility billing, engineering data bases and asset management.

Document Management
Any document can be linked to one or multiple parcels and features such as water or sewer pipes. For example, as-built drawings, legal plans, building permits and pictures.