

## GIS IS EVERYWHERE

### What GIS is:

A Geographic Information System (GIS) is computer-based technology that has become the standard tool for capturing, manipulating, analyzing, and visualizing geographically referenced information.

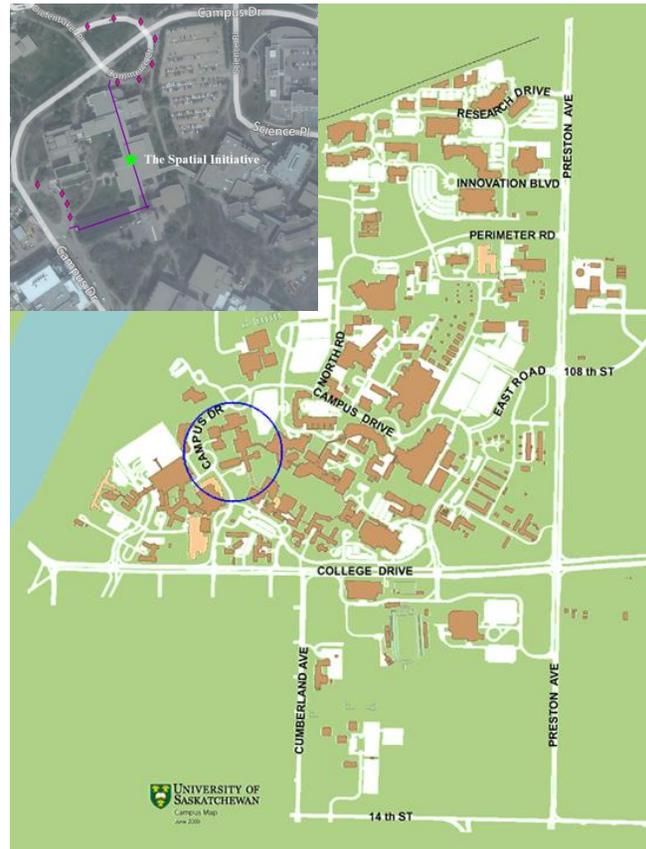
### What You Can Do with GIS:

GIS can be a part of every aspect of your life. With GIS, you can:

- ❖ **Map locations**  
Publish store locations, fire bans, or even health care information using maps.
- ❖ **Map quantities or densities**  
Map the numbers of pharmacies per 10,000 people to identify which areas are adequately served, and which are not.
- ❖ **Map where and how things move**  
Track the path of a hurricane to predict its speed and direction.
- ❖ **Create maps to visualize trends**  
Forecast crop yields, or determine fertilizer spread.
- ❖ **Learn what's nearby**  
Find bank branches and ABMs located within 5 km of a postal code or address.
- ❖ **Understand spatial relationships**  
How does the location of schools influence where people live?
- ❖ **Make better decisions**  
Determine the best location for a new school, restaurant, bank, factory, etc.
- ❖ **Ask questions and solve problems**  
A map showing clusters of a cholera outbreak in the London epidemic of 1854 led to the source of the disease, a contaminated water pump.
- ❖ **...and much more!**  
Visit us or [www.spatial.usask.ca](http://www.spatial.usask.ca)

## WHERE WE ARE

The Spatial Initiative  
University of Saskatchewan  
Room 260, Arts Building  
9 Campus Drive, Saskatoon  
SK S7N 5A5 Canada  
Phone: (306) 966-5133  
Email: [spatial@usask.ca](mailto:spatial@usask.ca)  
Website: [www.spatial.usask.ca](http://www.spatial.usask.ca)



## WHO WE ARE



### The Spatial Initiative

The Spatial Initiative is a unit within the Office of the Vice-President Research to support Geographic Information Systems (GIS) related to research, training, and engagement with and for the campus community and local, regional, and provincial partners. For more information, please visit us or [www.spatial.usask.ca](http://www.spatial.usask.ca).

### Mission Statement:

- ❖ To help, support and encourage the incorporation of mapping, geographic information, spatial thinking, spatial analysis, and spatial communication in the research agenda of the University of Saskatchewan;
- ❖ To provide GIS-related training and education for students, faculty, and staff from a variety of disciplines;
- ❖ To acquire, enhance, maintain, and disseminate digital spatial databases; and
- ❖ To research and develop GIS-related tools and technologies.

# WHO WE ARE

# WHAT WE DO

# WHAT WE DO

## Operating Team:

The team includes key members of The Spatial Initiative, the university library, Information Technology Services (ITS), and faculty communities:

- ❖ Scott Bell, Ph.D.  
Academic and Scientific Director  
Phone: 306-966-5676 / 5172  
E-mail: scott.bell@usask.ca
- ❖ Weiping (Winston) Zeng, Ph.D.  
Associate Director and GIS Analyst  
Phone: 306-966-5133  
E-mail: winston.zeng@usask.ca
- ❖ Ian MacPhedran, Ph.D.  
Software and Licensing Support  
Phone: 306-966-2227  
E-mail: ian.macphedran@usask.ca
- ❖ Jasmine Hoover, BSc., MLIS  
GIS Librarian  
Phone: 306-966-7265  
E-mail: jasmine.hoover@usask.ca

## Help Desk:

We offer professional consulting and mapping services and solutions for students, faculty, and staff on campus. Our services are provided for free at the Help Desk sessions, and in the first few hours of one-on-one consultations. For further information, please visit our website.

## Geographical Data:

- ❖ Data Creation: geocoding, geo-referencing, digitizing, editing, etc.
- ❖ Data Management: develop, store, organize, maintain, upgrade, and offer web access to geodatabases.
- ❖ Data Integration: combine data from various sources.
- ❖ Data Analysis and Modeling: inspecting, transforming, cleaning, modeling, and geoprocessing data.

## Projects & Research:

- ❖ Support the integration of geographic information, spatial thinking, and spatial analysis in research proposals and projects.
- ❖ Provide technical reports, grant reports, and manuscript support.

## Communication:

- ❖ Mapping, developing Web GIS applications, statistics, reports, etc.

## Software:

- ❖ Access to and setup of a number of GIS-related software packages.

## Training:

- ❖ Provide customized courses and seminars in GIS-related subjects.
- ❖ Provide free access to and advice on the online courses at ESRI's Virtual Campus.

## Other Consulting:

- ❖ Data availability, choice of GIS programs, geoprocessing, Python scripting, GIS programming, etc.

