

PRESENTATION ABSTRACTS - June 4th, 2015

Keynote - Floating on a Cloud of Opportunity: GIS is Coming to Any Device Near You

Presented by Bill Johnstone, Spatial Vision Group

After licking our wounds from the Global Financial Crisis of 2007-2008, the geospatial world is going through yet another revolutionary transformation:

- "Full stack", Free and Open Source (FOSS) GIS software is being used to meet simple to very advanced user needs.
- Drones, LiDAR, cheap imaging and sensor webs are creating huge datasets - we're only just scratching the surface of how to use them.
- Your smartphone and tablet carry a range of sensors that can provide credible "where?", "when?", "how fast?", and even "how healthy?" information. Your phone probably just told you to stand up and go for a walk to meet your daily goal.
- Mobile users are installing free apps on their mobile devices that include GIS capabilities - most people don't even know they are using geospatial tools.
- Cloud service vendors now offer compelling storage, functional and processing services, taking many headaches away from your organization's IT department. You can author Extract, Transform and Load (ETL) services, and then use the scalable cloud to transform and leverage your data.
- Innovative new applications are developed at hackathons, and some of these apps have created actual businesses.
- Many governments have embraced Open Data: you can download and use GIS datasets that offer increasing levels of quality, completeness and timeliness. Government organizations and vendors offer spatially-enabled, real-time datasets via web-GIS API's.
- Barriers to the use of GIS by small groups and volunteers have fallen away. Now they can create simple but powerful GIS datasets and visualization on freemium websites, and reach their users worldwide.

This talk provides a starting point for today's URISA-BC seminar on GIS Anywhere-Place-Device, explores some of these innovations and trends, and asks how they might transform our geospatial world.

Sharing Critical Infrastructure Asset Data - Office, Web, Cloud and Field

Presented by John Tarantino, Marmak Information Technologies

The Town of Petawawa is nestled on the western shores of the Ottawa River, just 160 kilometers west of Ottawa. With a population of 16,000, major area employers include Canadian Forces Base Petawawa and Chalk River Nuclear Laboratories (AECL) Petawawa boasts exceptional outdoor recreational activities with easy access to Algonquin Park and both the Petawawa and Ottawa Rivers.

The Town of Petawawa like other municipalities in Canada and around North America are experiencing the 'data explosion' and having to deal with large amounts of new data and the distribution of that data both within as well as without their organization. Key to dealing with this data is issues such as Open Standards, industry data models, cloud, and mobile applications.

In addition, today, municipalities are being introduced to 3D data models of both linear and vertical structures. Municipalities will soon be dealing with 3D building model data of their

vertical assets right along with that of their linear assets, and all having to be disseminated to both internal and external clients.

Recently, the town embarked on a project to implement 3D mapping technology and build a 3D model of the town and its infrastructure assets. Taking the traditional GIS and mapping data (2D) the town is introducing not only 3D modeling of the traditional linear assets but also of vertical infrastructure assets and investigating the web, cloud and mobile applications to deal with this data.

Participating as a partner in the Municipal Infrastructure Asset Maintenance and Management project with other municipalities and government, the town is implementing a process to model its linear capital asset infrastructure in 3D and incorporate vertical 3d building model data and assets such as recreational facilities, and disseminate to mobile technology.

The town will present its 3D model of the town and its progress in disseminating infrastructure asset data anywhere, anytime and on any device.

Enabling Mobile Workforce

Presented by Joshua Chan, Province of BC

Presentation will focus on an agile, grassroots approach to business transformation that has enabled staff to embrace mobile solutions for a new, efficient way of doing business. The grassroots approach provided an effective model to introduce new technology by providing flexibility, ownership, inclusiveness, and empowerment and has encouraged innovation among front-line staff.

The presentation will showcase a variety of tools including maps and forms being used within the Provincial government. This will include both out of the box and customised solutions.

iMapBC Goes Mobile

Presented by Chris Spicer, Province of BC

The old and beloved iMapBC application goes tablet and phone friendly. Come hear about this new release, HTML5, disconnected use and disconnected editing. DataBC will talk about its current and future plans for web mapping technology.

Designing for Simplicity in Web Applications

Presented by Andrew Durnin, District of North Vancouver

Learn about the process the District of North Vancouver used to re-develop their popular Flash-based GEOweb Properties Application within an HTML5 framework. Built using a number of modern web development technologies, the new Property Viewer app is device-agnostic, fast, and easy to use, while still providing rich property information and informative maps to users.

Mobile GIS Data for Field Personnel: We Answered, You Asked

Presented by Arnold Schwabe, Town of Qualicum

Over the last few years, the Town of Qualicum Beach has been moving away from paper-based forms for field inspections. Now, many of our field inspection processes including: hydrant inspections, maintenance hole inspections, and road condition reports are completed and finished in the field using notebooks, tablet computers, and/or smartphones. Using Autodesk Infrastructure Map Server, SQL Server, and web-based forms, we are able to provide our field staff with accurate information, who in turn provide updated information for asset management decisions.

TransLink's Open API - Making Use of Data Through Open API Development

Presented by Vito Karanovic, TransLink

This presentation will feature TransLink's Open API which consists of 3 components (Real Time Transit Information - RTTI, Regional Traffic Data System - RTDS, and General Transit Feed Specification - GTFS), and will explore ways in which TransLink is leveraging the developer community to make our data and information accessible anytime and on any device. The presentation will talk about what the APIs provide, how the community uses it, how we manage developer's subscriptions, some usage statistics, and some of the business drivers behind the API solution.

Fighting Crime with GeoDash: An Integrated Police GIS Dashboard

Presented by Ryan Prox and Betty Ling, Vancouver Police Department

Stopping criminals in their tracks: Leveraging GIS technology to empower police officers to target crime faster and identify threats to community safety. A case study of the Vancouver Police Department's development and deployment of the first in Canada, police mobile GIS dashboard.