PRESENTATION ABSTRACTS – November 21, 2012

Real-Time, Location-Based Asset Management and Notifications

Presented by Don Murray, President, Safe Software

In order to remain efficient, organizations must continually do more with less and make smarter and faster decisions. This presentation will show how real-time data feeds, coupled with cloud, mobile, location, and notification technology, enable organizations to achieve these goals with solutions that weren't possible until recently. Through a number of demonstrations, attendees will learn how easy it is to consume real-time sensor data from moving assets, perform spatial complex event processing (spatial CEP), and deliver notifications to users. Attendees will leave with an understanding of how they can leverage this technology within their environments to both increase efficiency and improve their service.

DND Perspective on the application of OpenBIM and the future of BIM and GIS integration

Presented by Al Douglas, President, A.D. Douglas Associates Inc., Advisor to the Directorate Corporate Architecture and Engineering at the Department of National Defence

Applying best practices in data management encourages local autonomy while promoting enterprise collaboration through web, mobile and Private Cloud. This allows for the implementation of spatial applications that require vast amounts of data collected at different times in different formats from multiple sources. This Reduces the risk of vendor lock in, and stranded technologies by enabling the users to adopt new platforms as required. Our goal is to standardize infrastructure information management for all phases of lifecycle.

Key speaking points:

- What is Open BIM?
- Open Geospatial Consortium (OGC) meets buildingSMART International (bSI)
- ISO tc211 meets ISO TC59
- Building the DND Real Property Spatial Data Framework
- Creating a real property spatial data warehouse that will be responsive to all requirements throughout an asset lifecycle utilizing desktop, web, mobile and private cloud technology.
    - integrate with enterprise systems
    - support local activities (ie. urban planning, engineering, design etc..)

Mobilizing Citizens to Report Civic Issues

Presented by Adam Chadwick, GIS Manager, City of Kamloops

Municipalities tackle civic issues (potholes, graffiti and the like) in a variety of ways ranging from receiving public phone calls and emails to self-reported employee notifications. How issue reporting is facilitated, and how issues are handled once received, contributes to how well they are detected, reported and resolved. Extending traditional issue reporting channels to also include smart phone apps increases both the breadth and depth of citizen issue reporting ultimately resulting in safer and more effective municipal services. This presentation reviews the City of Kamloops' implementation of a smart phone app for issue reporting highlighting the technologies, processes and lessons learned.

COSMOS - Is it Possible to Please Everyone?

Presented by Sean Simpson, GIS Manager, City of Surrey

The City of Surrey's vision of web mapping solutions for desktop, tablet, and smartphones. A few of our initiatives will be presented including our Common Operating Picture for Surrey's Emergency Operations Centre and a custom mapping solution for a neighbouring municipality.

Implementing a Gas Distribution Risk Model using Smallworld GeoSpatial Analysis for Pipe Replacement Programs

Presented by Piet Nooij, Production Process Manager Business & IT Services, FORTIS BC

FortisBC is a gas distribution company in British Columbia with approximately 950,000 customers and has implemented a risk model for pipe replacements using Smallworld GeoSpatial Analysis. The risk model is driven by data in FortisBC's Smallworld VMDS and a spreadsheet containing risk values for object attributes. The risk model calculates a relative risk score for every pipe segment and thematically maps the distribution mains according to the level of risk. These maps can then be overlaid with municipal infrastructure projects, pavement plans, and FortisBC's own system improvements. Mains that show a higher risk are further evaluated for replacement at the same time. This presentation will discuss the development of t6he risk model, the implementation in GSA, the business benefits, and lessons learned.

North Saanich Fire Department

Presented by Jonathon McIntyre, Director, IOpen Technologies

The District of North Saanich Fire Department currently prints hard copy maps with driving directions for all of its fire trucks. Updating and managing this is time consuming and labour intensive even with improvements over the years.

Based on the current use case, i-Open has developed an HTML5/JavaScript application for use on any modern browser that can then be incorporated into a Mobile App (in this case an iPad with iOS) for use in the field with no connection to wireless required. This allows the Fire Department to have access to mapping in the field which is linked to PDF copies of their driving direction maps. It also includes data for their pre-fire planning from a separate database system.

Since every organization is different the system is designed to be viewed using industry standard GeoJSON. This can reside either client or server or both depending on the end user needs. Depending on existing GIS systems, this may even be available live through REST.

These tools are being enhanced to allow capture of data in the field and have them synchronized back to the corporate database for use in Asset Management, Building Inspections, Permitting and Licensing.

Next Bus and Mobile Integration Initiatives

Presented by Dietmar Doerschlag, Project Manager, TransLink

TransLink serves the Metro Vancouver Region with Transit Services which include about 20,600 bus trips per day and about 765,000 bus passengers per day. Customers want information about their bus and transit schedules. What's more, customers deserve real-time information about actual bus locations and predictive arrival/departure times. This presentation describes some of the technology, data, and infrastructure for managing a rolling stock of assets in real-time, as well as short demonstration to summarize the final product.