



PRESENTATION ABSTRACTS - May 23rd, 2013

GeoShare: Making BIG Data Music

Presented by Barry Logan and Steve Mark, ICIS

ICIS is providing the answer to one of the BIG Questions associated with BIG Data. Where does BIG DATA come from? Maybe a metaphorical answer can illustrate the question. BIG Data is like a symphony. The value or the music comes from the orchestra but the music comes from individual sounds generated by a bunch of disparate instruments played by their individual custodians. The music is facilitated by the conductor who controls the integration and delivery. ICIS is the conductor and GeoShare is the wand. The ICIS members are the musicians and the data is their individual instruments. The integrated data becomes the music. Listen to how ICIS is making the music and facilitating BIG DATA.

Taming the Point Cloud Tiger for the Township of Langley

Presented by Dale Lutz, Vice President of Development, Safe Software Inc.

Point cloud data is becoming more prevalent and readily available for use. It contains a wealth of information with great potential in many applications, particularly in a GIS. However, these datasets are massive in file size and are difficult to process in desktop applications. This presentation will demonstrate, through examples, how the Township of Langley used modern data transformation technology to produce some interesting and useful results with point cloud data. Included are methods for changing the appearance and size of point cloud datasets, as well as integrating it with other data such as orthographic imagery and building footprints to create realistic 3D representations of real settings that can be saved as 3D PDF's for viewing by a broader audience.

Surrey's GIS Projection Model: How to Estimate Development Unit and Population Figures

Presented by Stuart Jones, MCIP, RPP, City of Surrey, GIS Services

This discussion centres on the City of Surrey's land use-based development analysis model to project unit, population and employment build-out scenarios. The two-pronged model uses GIS data to create an inventory of all buildings in the city and a non-GIS component that includes analyzing existing and projected unit, population and employment figures. Methodology will be showcased, giving an account on how the system was created, maintained and the benefits to multiple departments..

Using Origin/Destination Survey Data to Identify Mobility Hubs

Presented by Malcolm MacPhail, Transportation Planner, Capital Regional District

The Capital Regional District (CRD) represents 13 incorporated municipalities and 3 electoral areas on the southern tip of Vancouver Island with the central city of Victoria. Currently the CRD is developing an overall transportation strategy for the region. A key component is the identification of mobility hubs or areas with high population, employment and trip densities

located at principle nodes on the regional transportation network. As such, mobility hubs are critical for the development of effective policies and actions to encourage the greater use of walking, cycling and public transit.

The Slow Spread of Location Intelligence across the Business Verticals

Presented by Greg Mortson, Pitney Bowes Software

This session will look at the impact of Big Data on three major areas: Data Quality, Location Intelligence and Customer Communications. We'll look at prevalent trends within each of these markets and discuss the level of investment across different business verticals, including Public, Finance, Insurance, Retail and Telco. We'll also look at specific organizations that are gaining a competitive advantage with solutions that lay where Location Intelligence and Big Data converge.

BIG Geospatial and the Importance of Intelligent Modeling to Corporate Enterprise

Presented by Gord McElravy, Autodesk

The traditional GIS corporate enterprise must evolve to reflect the realities municipal governments are facing in dealing with the real world modeling environments present today. This presentation will review the types of data required to build, maintain, manage and disseminate the information necessary to maintain a lifecycle infrastructure asset management environment.

Big Data and Location, Location, Location

Presented by Jay Terrill, Esri Canada

Big data is either too voluminous or too unstructured to manage and analyze through traditional means. Big data is here to stay, but what should be collected? Where do we store it? And how can it help us with our day-to-day work? Data platforms and enterprise analytics including Business Intelligence (BI) are adapting to address big data. Visualization and analysis of location-based content is important to BI and location should be available throughout our workflow within our current business systems. Discover how Esri Location Analytics is used to geo-enable critical business systems to bring forth a better understanding of big business data.