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Intergraph's Geospatial Session Abstracts

Get a preliminary look at the exciting topics in the Intergraph Geospatial sub-track at [Hexagon 2012](#). This year, you have a sequential progression of breakout sessions, building upon one another. We will guide you through the dynamic GIS from the moment of capture to delivery, giving you a holistic view of the latest technological advances and how these can enhance your organization's geospatial workflow. In addition, we've added desktop and server-based hands-on sessions at the end of track, giving you the opportunity to apply what you learn prior to returning to your organization. Let us help you think forward in 2012, and gain a new perspective on the trends occurring globally in geospatial technology.

3100: Geospatial Vision & Strategy: The Dynamic GIS in Action (2 hours)

Intergraph's geospatial products exploit the wealth of content collected from a variety of sources. There is now a synthesis of desktop, web, and mobile applications with the ability to rapidly transform raw data into actionable information and deliver it to any location. This includes on-demand, web-based geoprocessing, integrated vector and raster-based spatial modeling, change detection, and data revision based workflows based on the fusion of imagery, point cloud, and GIS data. This session features the geospatial vision and strategy from Intergraph's industry leaders, as well as a series of presenters that will expound on the complete geospatial workflow. These "birds of a feather" presentations will highlight distinctive implementations and the transformational role geospatial technologies play across multiple vertical markets. The power of Intergraph's technology is revealed in these real implementations, where technical capabilities meet customers' business process requirements. These examples will inspire you to do more with the available technologies.

3101: Dynamic Geospatial Exploitation for a Changing World

In this session, the presenter will highlight the vitality of geospatial image processing and analysis, GIS, remote sensing, and photogrammetry – and how you can access these tools from a single powerful and convenient package. A web processing service (WPS) provides a centralized production environment to manage and optimize access, processes, and output. Learn how you can work from one collective data pool to create value-added data products from custom front-ends. The system automatically catalogs resulting derivatives and immediately makes them available to other users. Discover how to use the new spatial modeler, and then deliver vector and raster models to other users over the Internet via interoperable geoprocessing services. The presenter will also introduce a suite of point cloud tools and provide an overview of the LPS user interface integration into the ERDAS IMAGINE® ribbon.

3102: Powerful GIS Data Production and Analysis

Earlier this year, Intergraph announced Live Link, which combines GeoMedia® and ERDAS IMAGINE to deliver a comprehensive suite of GIS analysis and data management capabilities, coupled with image processing. The combination delivers what geospatial professionals have wanted for a long time – seamless integration of vector and raster data and processing. During this session, the presenter will explore the next phase of this integration that will be available in the 2012 product release, as well as present other enhancements across the desktop portfolio. In GeoMedia, you will have the opportunity to preview the new look and improved user experience, enhanced performance and scalability for enterprise databases, and the time savings in dynamic and static text placement and automated labeling. Explore how visualizing, navigating, analyzing, and interacting with geospatial data in 3D can greatly enhance an organization's ability to make decisions. See how GeoMedia 3D extends the functionality of GeoMedia, enabling



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you to exploit the precision and power of your geospatial data, which leads to quicker, more confident decision-making and visual communication in support of location-centric tasks.

3103: Geospatial Trends and Industry Panel Lunch

Join us for a special panel discussion on the future and direction for the geospatial industry. During this lunch, we will collectively evaluate market trends, including the evolution of remote sensing, photogrammetry, and GIS, as well as the merging of these technologies. There is now a synthesis of desktop, web, and mobile applications with the ability to rapidly transform raw data into actionable information and deliver it to any location. Our panel includes geospatial thought leaders from around the world, including key members of the media and business partners. While you enjoy your lunch, each panel member will share a lightning presentation describing their organization's contribution to the industry. We will then moderate a Q&A session to hear their insights on our changing industry.

3104: Rapid Data Management and Delivery to the World

Intergraph makes it easy for geospatial enterprises to manage and use large volumes of data. Find out how our solution helps you successfully manage, distribute, exploit, and visualize your organization's unstructured data (including point clouds). Learn how ERDAS APOLLO can automatically catalog, and how you can then discover, view, analyze, and download the data. You will also learn how Intergraph's GeoMedia Grid uses LiDAR data originating in ERDAS APOLLO to perform water flow retention estimation/delineation analysis. You can then combine the analytical results from this process with your GIS data sources, all within a single 3D environment using GeoMedia 3D.

3105: The Smart GIS for a Smarter World

Working in multi-disciplinary environments introduces complex requirements and challenges that many conventional GIS solutions cannot support. While all users in an organization may require access to common data, access to specific records may vary depending on department, role, or geographic jurisdiction. User access may also vary as responsibilities change over the course of a project life cycle. GeoMedia Smart Client meets the needs of multidisciplinary organizations, such as Departments of Transportation or municipal governments. At its core is a highly configurable rules and workflow engine that enables organizations to implement dynamic life-cycle workflows, feature-level access control, data validation and behavior, and integration to other systems. Learn how Intergraph's software provides a powerful, web-based "smart client" that supports high-end functionality, including vector data capture and editing. Discover the breadth of organizations that have deployed this solution – from municipalities and transportation and utility infrastructure operators to government emergency management agencies.

3106: Portray Your Geography to the World

Geospatial organizations need to use and distribute volumes of geospatial data, but disparate legacy information systems may hinder data-sharing. When departments use different geospatial software and data formats, data silos result, forming obstacles to effective collaboration within the enterprise. Additional problems arise when trying to share data with outside organizations. Intergraph's Spatial Data Infrastructure (SDI) solution removes the obstacles associated with distributing and using copied data. Adherence to industry standards, including INSPIRE, Open Geospatial Consortium (OGC®), and International Organization for Standardization (ISO), not only breaks down barriers, but also allows organizations to comply with government mandates. With GeoMedia SDI Portal and its powerful browser application, you can easily visualize and share accurate geospatial data to collaborate internally, and with government agencies, commercial businesses, and the public. Attend this session to learn how this solution can benefit your organization.



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3107: Real-World Modeling & Analysis with GeoMedia, GeoMedia Grid & GeoMedia 3D

During this training session, users will obtain hands-on experience with the wide range of spatial analysis tools available in GeoMedia and GeoMedia Grid. The session begins with practical applications of GeoMedia's powerful vector-based analysis tools taken from actual customer case studies. The session will then showcase GeoMedia Grid, highlighting the strengths of using both raster and vector data formats without having to worry about data conversion and translation issues. This will allow you to easily apply analysis and modeling techniques that best suit your specific needs. Finally, attendees will use GeoMedia 3D to easily create 3D representations from existing 2D GIS datasets and incorporate 3D models to provide a real-world view of the data. The resulting visualizations will be exploited to provide powerful corroboration and additional insight for traditional GIS analysis.

3108: Maximize ROI with Project and Production Photogrammetry

In this session, learn about Intergraph's two robust platforms for solving photogrammetry problems and turning raw data into useful information. Professionals can benefit from ERDAS IMAGINE (with LPS) to address image processing, photogrammetry, and/or LiDAR data workflows. Commercial photogrammetry customers benefit from the high-throughput capabilities of Intergraph's ImageStation® products. Whether you need an integrated platform to work with all types of geospatial data, or a cloud-oriented solution to create or update large spatial databases, Intergraph's proven solutions can improve your productivity. You'll also find out about new technological developments, including on-going efforts to cross-pollinate our photogrammetric tools across our portfolio. In addition, the presenter will explore unmanned aerial vehicles' (UAVs) heightened susceptibility to in-flight environmental influences, the smaller footprints of the images they collect, and the software workflow necessary to correct the imagery. Imagery obtained from GheoRhea's UAV platform will be used to demonstrate a complete and accurate workflow for correcting the artifacts inherent in UAV-sourced imagery.

TWO-HOUR, HANDS-ON WORKSHOPS

3111: LiDAR Data Management and Exploitation – Workshop

Is your agency utilizing or considering using LiDAR data? If so, you know that LiDAR technology has become a valuable tool in a variety of applications that require an accurate surface model. The availability of LiDAR data is resulting in a profusion of very large datasets requiring solutions for management and exploitation. In this workshop, learn the benefits of LiDAR data and explore local, state, federal, and DOT workflows using LiDAR data (and other data types) in response to natural disasters. Using the April 2011 tornados that swept across Alabama as the scenario, the instructor will demonstrate how to manage, exploit, and disseminate LiDAR data during each stage of emergency planning, recovery, and rebuilding.

3109: Together at Last: Remote Sensing and GIS

Intergraph has combined GeoMedia and ERDAS IMAGINE to deliver a comprehensive suite of GIS analysis and data management capabilities, coupled with image processing. This combination delivers what geospatial professionals have wanted for a long time – seamless integration of vector and raster data. This stronger, more streamlined geospatial workflow combines the strengths of GeoMedia's extensive querying capabilities with ERDAS IMAGINE'S library of image manipulation features to help you with true spatial insights. Now, you can leverage both products in unison to manage the demand for more data, more analysis, and more effective results. During this hands-on workshop, you will experience the benefits of this cohesive image processing and GIS product pairing, focusing on workflows that can process large volumes of imagery, precision terrain data, and vector-based geospatial information to update GIS and computer-aided design (CAD) resources.



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3110: Dynamically Jumpstart Your GIS with GeoMedia Smart Client

The enterprise wide “smart GIS” obliterates the growing disparity between the status quo and what a GIS needs to be. A smart GIS is the perfect GIS, connecting and equipping ALL users with the power of GIS, breaking down the walls of legacy that have resulted in closed, passive, and uninspiring one-dimensional systems. During this hands-on workshop, you’ll have the opportunity to apply what you’ve learned about GeoMedia Smart Client during the first two days of the conference, and will receive an introduction to the administration and workflow configuration. Upon leaving this workshop, you’ll have the tools you need to make your organization progressive, empowering individuals and departments to collectively ignite your dynamic GIS.

Registration Now OPEN

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