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Hexagon Geospatial
ERDAS IMAGINE & IMAGINE Photogrammetry, what is new in 2014 - 2015

Arto Vuorela – Hexagon Geospatial Support

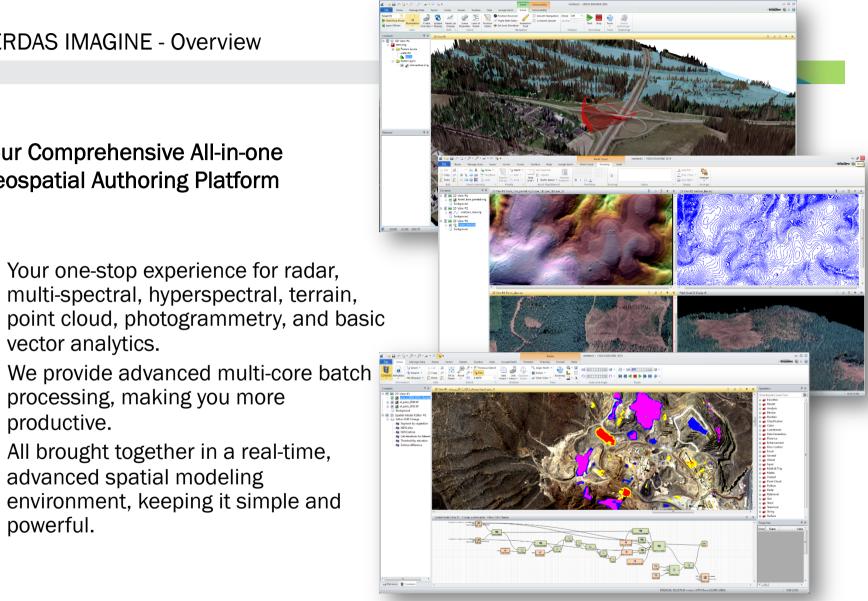Finnish Remote Sensing Days, 2014

ERDAS IMAGINE - Overview

Your Comprehensive All-in-one Geospatial Authoring Platform

- Your one-stop experience for radar, multi-spectral, hyperspectral, terrain, point cloud, photogrammetry, and basic vector analytics.

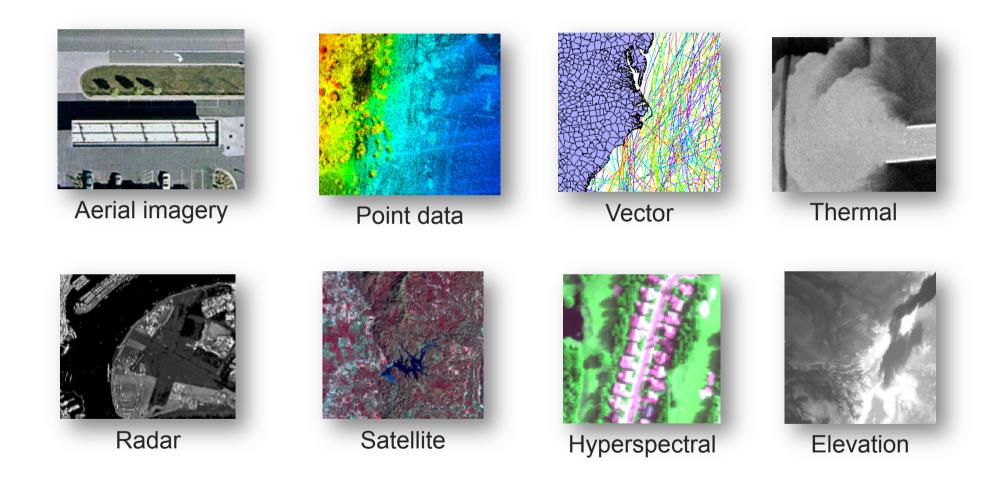- We provide advanced multi-core batch processing, making you more productive.

- All brought together in a real-time, advanced spatial modeling environment, keeping it simple and powerful.
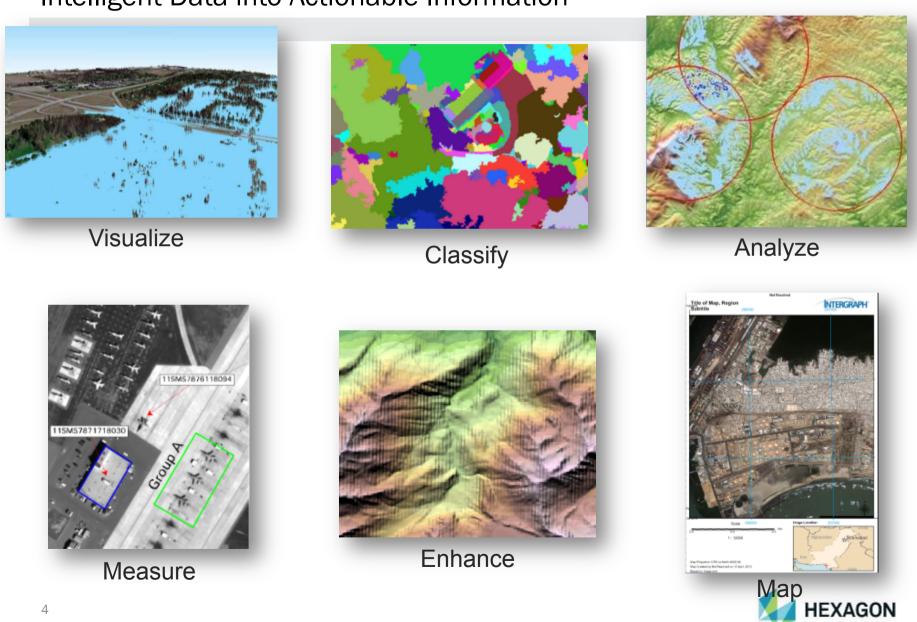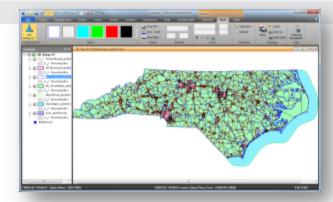
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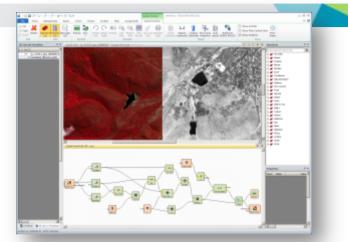# Raw Data into Intelligent Data

Aerial imagery

Point data

Vector

Thermal

Radar

Satellite

Hyperspectral

Elevation

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Intelligent Data into Actionable Information

Visualize

Classify

Analyze

Measure

Enhance

Map

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How?

Simple Intuitive GUI's

Powerful and Dynamic modeling

GIS, Remote Sensing, Photogrammetry, Server

Multicore and Distributed Processing

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Behind the Scenes

- True 64-bit application
- New automated testing and reporting
- Localization
- TIFF performance
- Working with partners and Hexagon companies
- Unicode compliant to support special characters
- HexGeoWiki
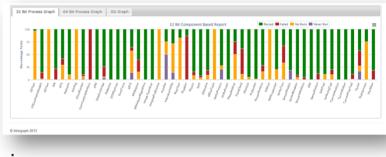 - Server Based Web guide

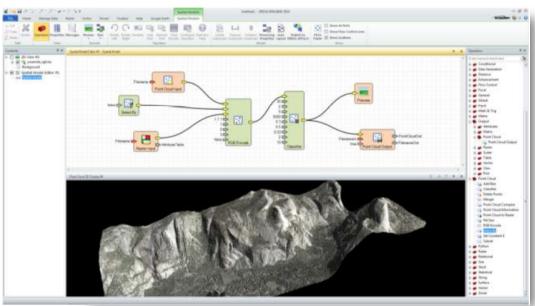**HEXAGON**

Image Analyst Workflow Improvements

- Enhancements to the Inquire Cursor, e.g. one Copy/Paste

- Long name support in NITF metadata

- Extended options for 'Send to JPEG' and other Send to Office tools

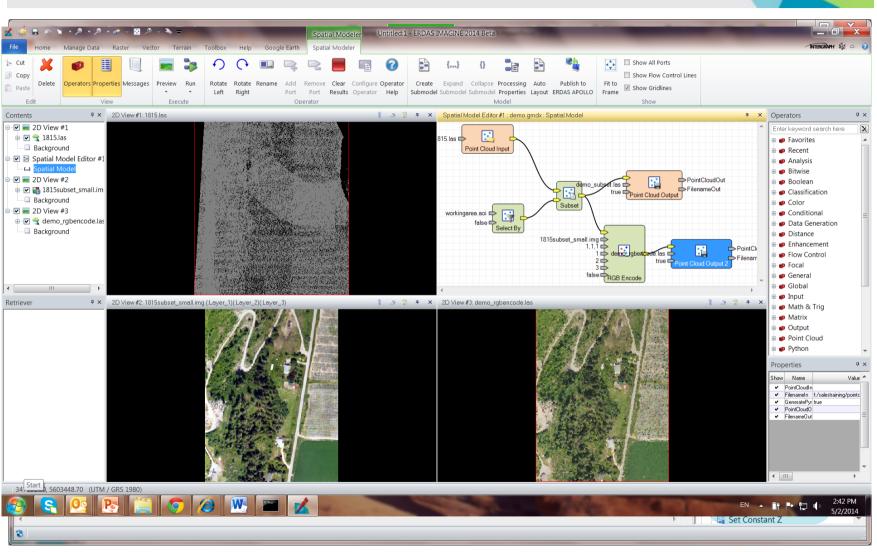- Copy/paste graphics to Map compositions

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Spatial Modeler Enhancements

- Point Cloud & LiDAR operators

- Classification & Segmentation operators

- Command-line operator

- Initial work for publishing Web Processing Services (WPS) containing vector-based operations

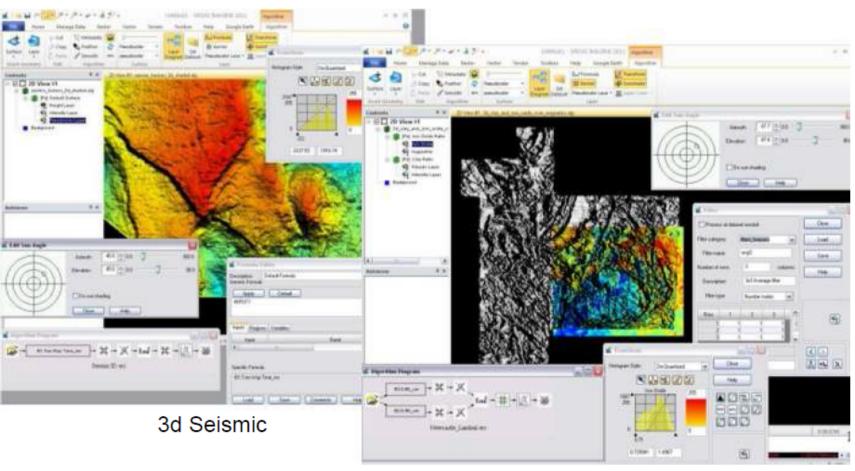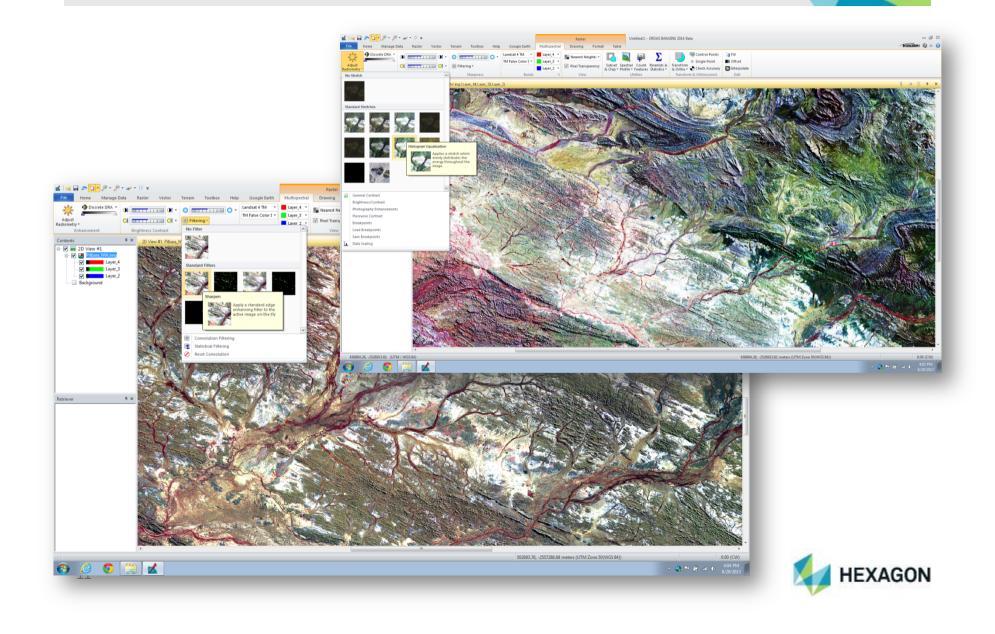- Spatial Modeler SDK

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LIDAR OPERATORS IN SPATIAL MODELER

More ER Mapper Wizards converted to Spatial Models

- E.g. Geophysical and Oil &
  Gas solutions

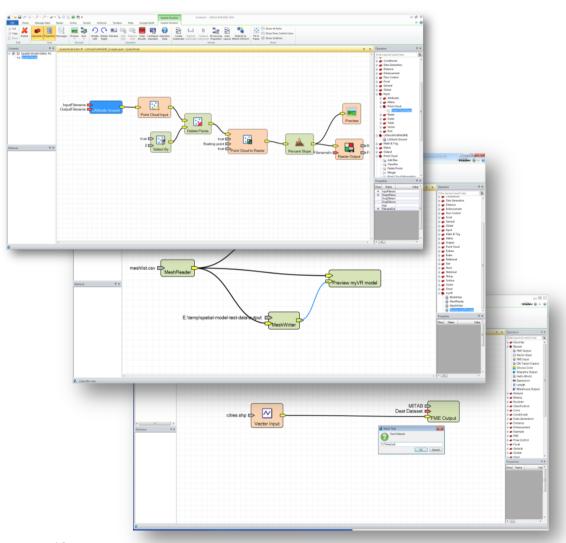3d Seismic

Iron Clay Oxide

Real-time LUT Stretch and Filter Galleries

Look forward to more Internal and 3rd party integration in 2015
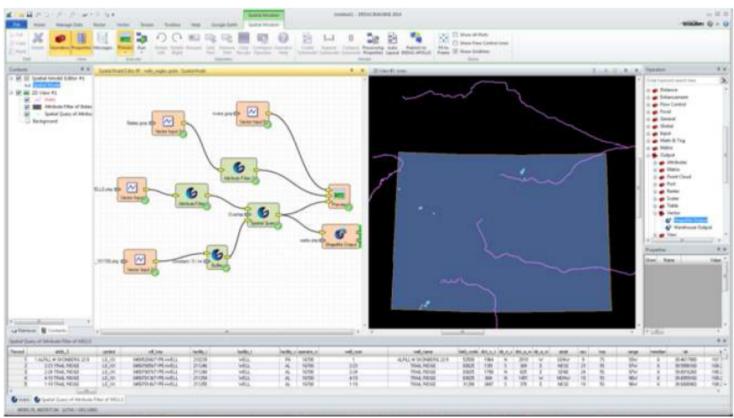

- LAStools from rapidlasso

- FME transforms from SAFE

- Transformers from MyVR

- More IMAGINE Objective operators

- RADAR operators

- More ER Mapper wizards

- Atmospheric correction

- IMAGE Chain!

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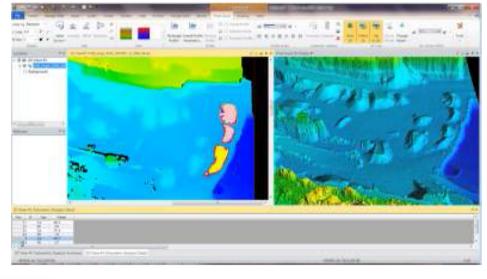# Spatial Modeler Enhancements 2015

- Can use more GeoMedia® **vector**
  operators to perform analysis:
  buffering, attribute filtering, ...

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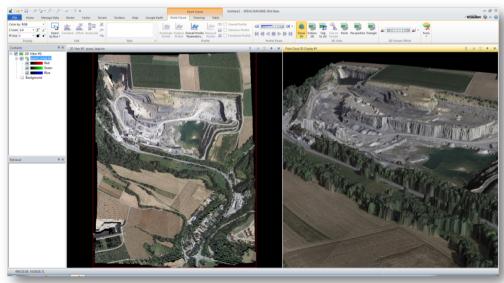
Look forward to more in 2015
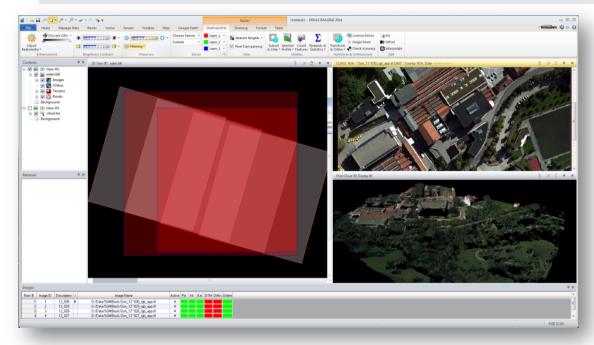
- 3D TIN

- 3D measure

- Profile using existing vector layers

- Volume measurements

- Point Cloud streaming from ERDAS APOLLO on the cloud

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IMAGINE Photogrammetry now and in 2015
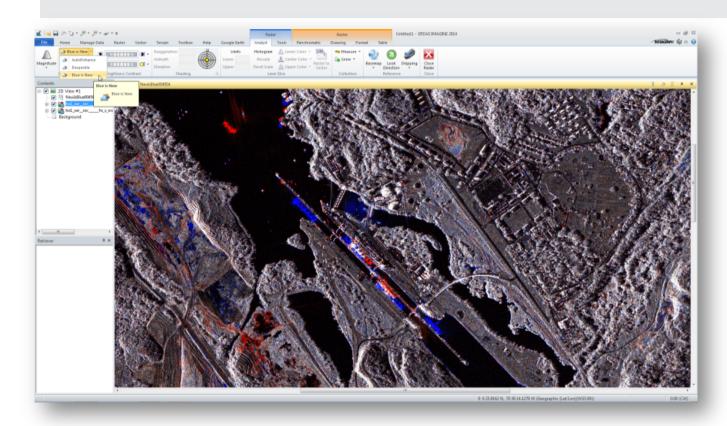
- Dense Matching

- Dense matching for Satellites

- Another Semi-Global Matching (SGM) application

- APM for UAVs

- DVP to Block file

- Pleiades Rigorous Sensor model
- SPOT 6 Rigorous Sensor model
- KOMPSAT 3 RPC
- Enhanced Landsat 7/8 importer
- GeoEye format compliance

- RISAT-1
- GöKtürk-2
- RASAT
- SkySat-1

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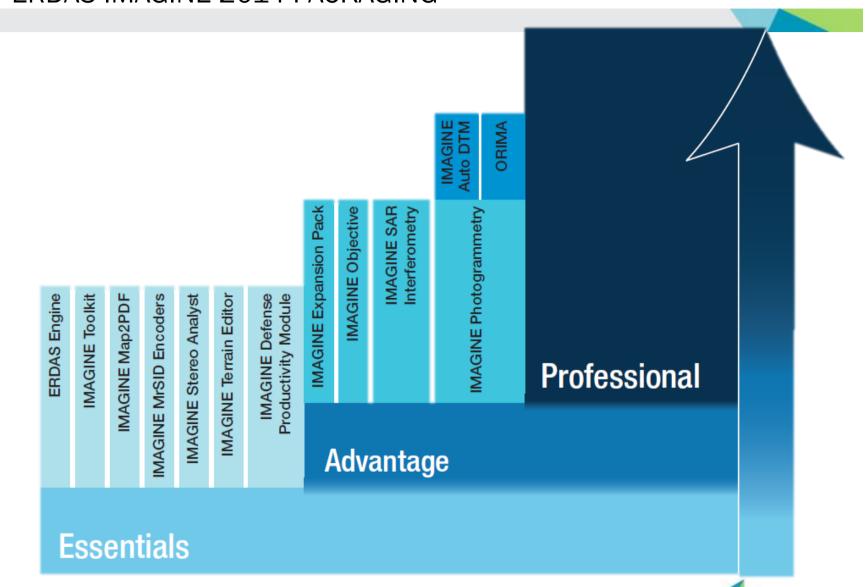
Radar

- Real-time Blue-is-New change detection
- Real-time Despeckle
- Real-time Colorize
- Time-series Coherence Change Detection

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ERDAS IMAGINE 2014 PACKAGING

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ERDAS IMAGINE Add-Ons
Value Above and Beyond the Core

HOME / PRODUCTS / Remote Sensing / ERDAS IMAGINE Add-Ons

Automatic Terrain Generation

- IMAGINE Auto DTM - Computer cluster-enabled automatic surface modeling.

Production Toolset

- IMAGINE Expansion Pack - Advanced tools for realistic 3D, NITF support, radar DEM extraction, stereo feature collection, wizard-based change detection and automated image to image registration.

Advanced Photogrammetry

- IMAGINE Photogrammetry (formerly LPS) - Efficiently transform raw imagery into accurate and reliable ortho images, terrain models or point clouds with dozens of rigorous and RPC models.

Compatibility with US Defense Standards and Protocols

- IMAGINE Defense Productivity Module - Use data formats, sensor models, and workflows common in the US defense and intelligence community.

Format Compatibility

- IMAGINE MrSID Encoders – Create Generation 2 or 3 MrSID compressed data as part of your ERDAS IMAGINE workflow.
- IMAGINE Map2PDF – Create geospatially-enabled GeoPDF maps and access in Adobe Reader.

Atmospheric Correction

- ATCOR - Easily reduce atmospheric effects from your imagery to normalize multi-date imagery.
- IMAGINE AAIC - Get consistent classification results and better material identification by automatically converting native DN pixel values to surface reflection.

Feature Collection

- IMAGINE Objective - Intuitive Object Based Classification to identify and extract feature data from imagery.
- Stereo Analyst for ERDAS IMAGINE - Collect 3D vector feature data from stereo imagery. (also included in the IMAGINE Expansion Pack)
- IMAGINE GeoPalette - Rapidly autonomously derive land materials classification, bathometry, water bottom material classification and more.

Radar Processing

- IMAGINE SAR Interferometry - Advanced radar interferometry including coherence change detection, time series change analysis, displacement mapping and DEM extraction

Quality Assurance for Digital Terrain Models

- IMAGINE Terrain Editor - Advanced Stereo viewer with and extensive toolset for editing terrain data.

Faster Project Completion through Distributed Processing

- ERDAS Engine - Expand you processing power by distributing demanding, resource-intensive processes to more cores and workstations.

ERDAS IMAGINE Customization

- IMAGINE Developers' Toolkit - Extend the capabilities of ERDAS IMAGINE to meet your specific project needs.

Buy Now!

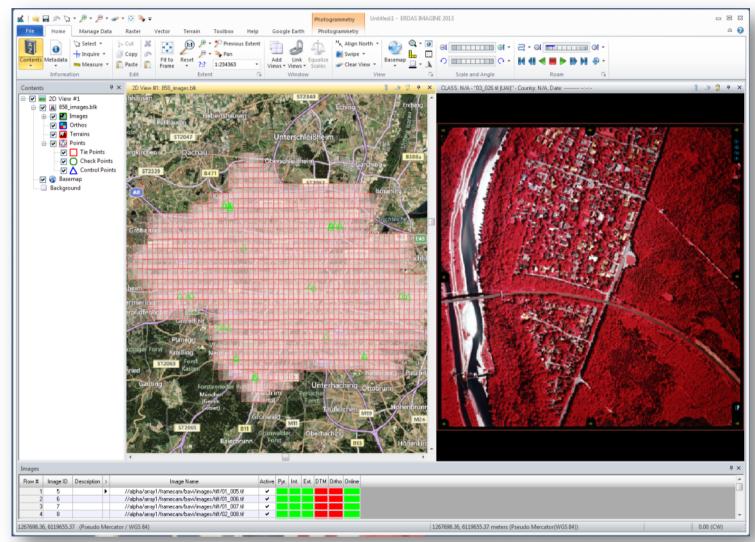- US Sales
- International Sales
- E-mail Us
- +1 (877) 463-7327

Webcasts

Mobile GIS Solutions For Crowdsourced Data And Real-time Database Editing

Jun 25, 2014

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IMAGINE Photogrammetry (ex LPS)

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Features moved into IMAGINE Essentials

- **IMAGINE Enterprise Loader**

This add-on lets you load vector and raster data into an Oracle Spatial database.

- **IMAGINE Vector**

Utilities such as clean and build when working with ArcInfo Coverages, as well as various Coverage importers and exporters.

- **IMAGINE Easytrace**

This enables you to perform semi-automated / assisted feature extraction.

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Features moved into IMAGINE Advantage

- **IMAGINE Image Equalizer**

This provides a stand-alone application for the radiometric balancing of images

- **IMAGINE Radar Interpreter**

This provides numerous basic utilities for processing SAR imagery

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IMAGINE Expansion Pack

New add-on - IMAGINE Expansion Pack

IMAGINE Expansion Pack subsumes the following old modules:

- **IMAGINE AutoSync**
- **IMAGINE VirtualGIS**
- **IMAGINE DeltaCue**
- **IMAGINE NITF**
- **Stereo Analyst for IMAGINE**
- **IMAGINE OrthoRadar**
- **IMAGINE StereoSAR DEM**

These are popular add-ons and used by many users. All are now available as a **single add-on** at the **Advantage** level.
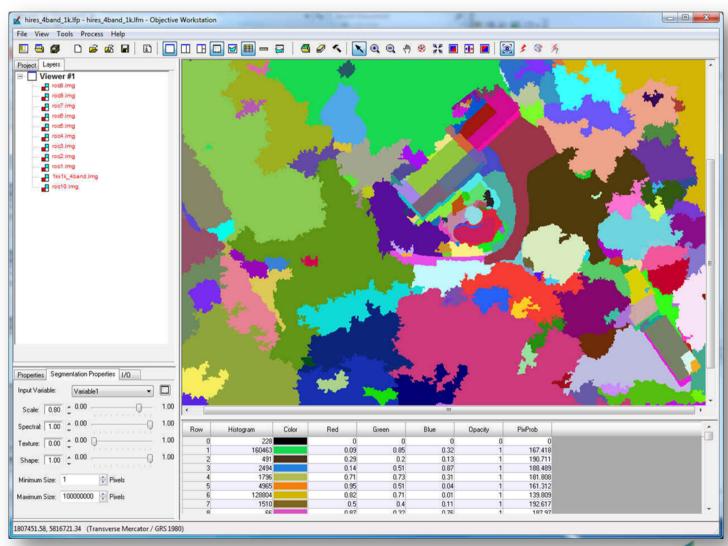
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IMAGINE Expansion Pack will be added to the Education Desktop CORE option. This means that IMAGINE DeltaCue will now be part of this offering.

IMAGINE Objective available as a new permanent add-on option. This add-on will be available for all quantity levels.

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IMAGINE Objective, Advanced Classification

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New source for smart services

German dream of delivery service

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