Hatékony információ kinyerés légi és űrfelvételekből 2011-ben

erdas
The Earth to Business Company

Kákonyi Gábor,
GeoIQ kft.

Mit érdemes tudni az ERDAS-ról?

The Earth to Business Company – we help organizations **harness the information of the changing Earth for greater advantage**
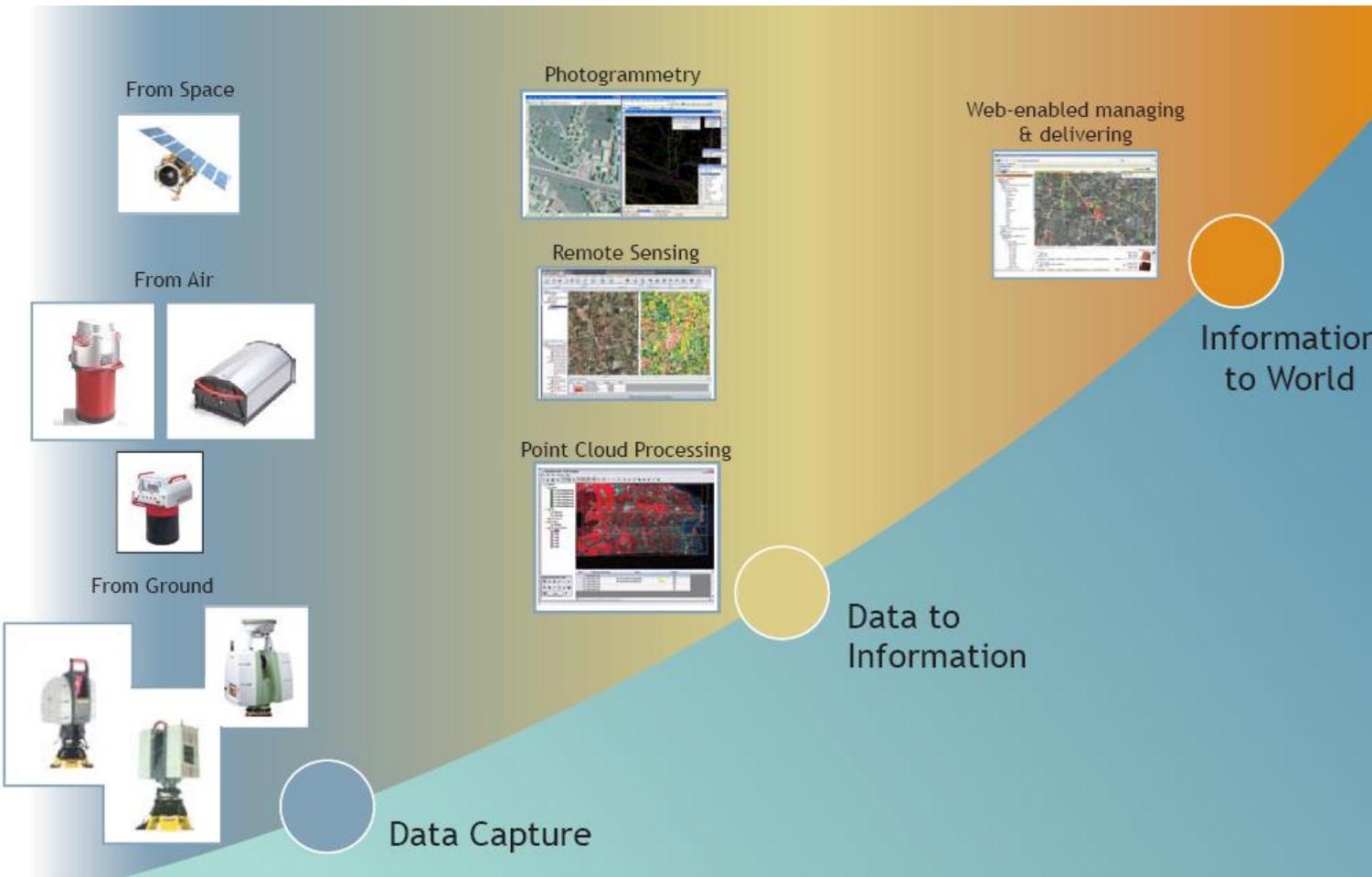

We are a **geospatial software company** providing integrated remote sensing and photogrammetry enterprise solutions
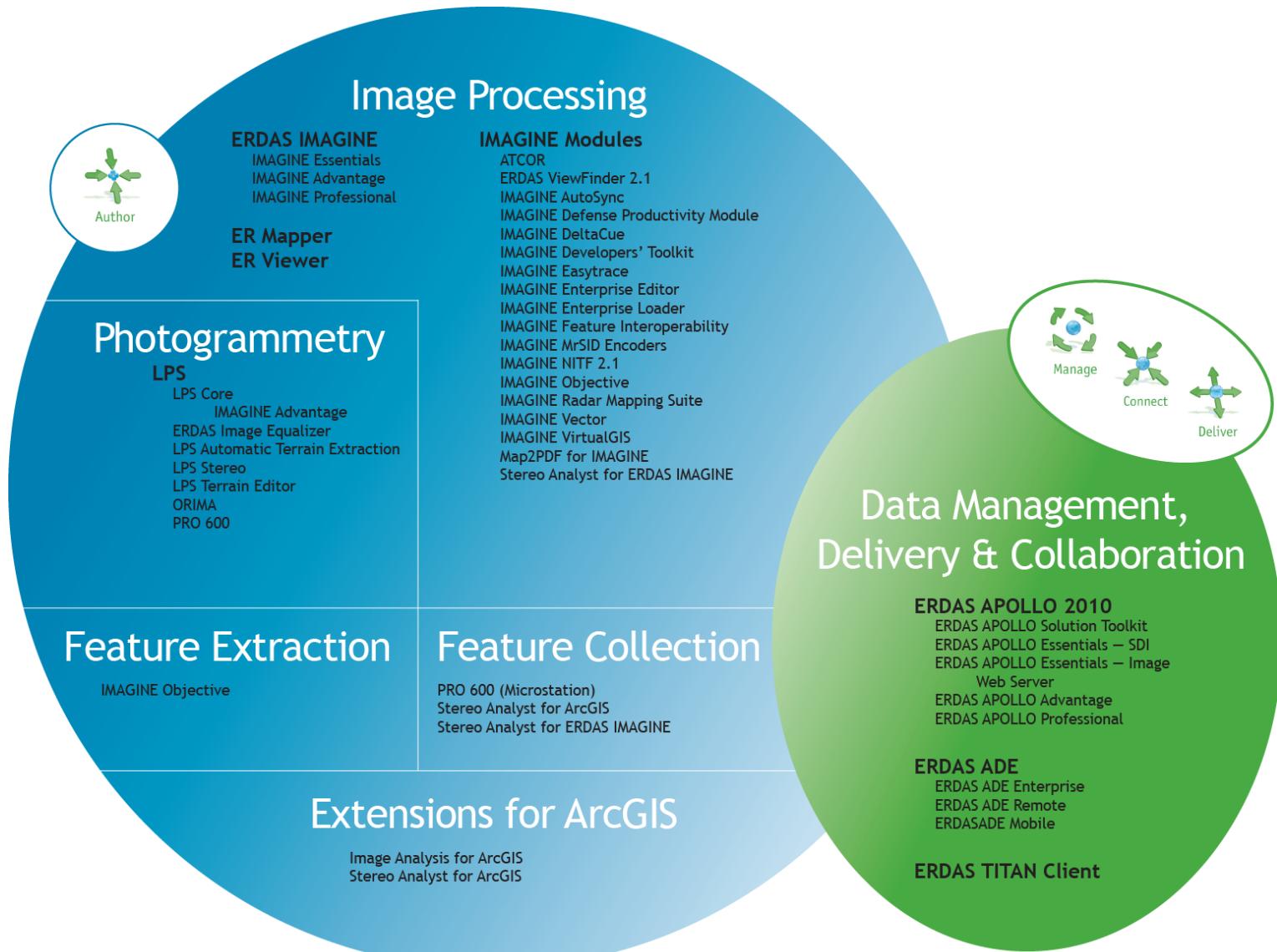

We have over **30 years of imagery expertise**, with a deep understanding of geospatial data

A térbeli információk életciklusa

Az ERDAS Portfóliója

Image Processing

ERDAS IMAGINE
- IMAGINE Essentials
- IMAGINE Advantage
- IMAGINE Professional

ER Mapper
ER Viewer

IMAGINE Modules
- ATCOR
- ERDAS ViewFinder 2.1
- IMAGINE AutoSync
- IMAGINE Defense Productivity Module
- IMAGINE DeltaCue
- IMAGINE Developers' Toolkit
- IMAGINE Easytrace
- IMAGINE Enterprise Editor
- IMAGINE Enterprise Loader
- IMAGINE Feature Interoperability
- IMAGINE MrSID Encoders
- IMAGINE NITF 2.1
- IMAGINE Objective
- IMAGINE Radar Mapping Suite
- IMAGINE Vector
- IMAGINE VirtualGIS
- Map2PDF for IMAGINE
- Stereo Analyst for ERDAS IMAGINE

Author

Photogrammetry

LPS
- LPS Core
    - IMAGINE Advantage
- ERDAS Image Equalizer
- LPS Automatic Terrain Extraction
- LPS Stereo
- LPS Terrain Editor
- ORIMA
- PRO 600

Feature Extraction

IMAGINE Objective

Feature Collection

PRO 600 (Microstation)
Stereo Analyst for ArcGIS
Stereo Analyst for ERDAS IMAGINE

Extensions for ArcGIS

Image Analysis for ArcGIS
Stereo Analyst for ArcGIS

Manage
Connect
Deliver

Data Management, Delivery & Collaboration

ERDAS APOLLO 2010
- ERDAS APOLLO Solution Toolkit
- ERDAS APOLLO Essentials — SDI
- ERDAS APOLLO Essentials — Image
    - Web Server
- ERDAS APOLLO Advantage
- ERDAS APOLLO Professional

ERDAS ADE
- ERDAS ADE Enterprise
- ERDAS ADE Remote
- ERDASADE Mobile

ERDAS TITAN Client

ERDAS IMAGINE 2011

Térbeli információk előállítása

Reference your imagery to the earth's surface

Measure primary information from the imagery to collect vector, point, area and other quantitative data

Analyze data to draw conclusions about the processes and activities affecting your area of study

Update your GIS with accurate geospatial data

Present and **publish** your imagery, geospatial information and geospatial processes in 2D and 3D environments
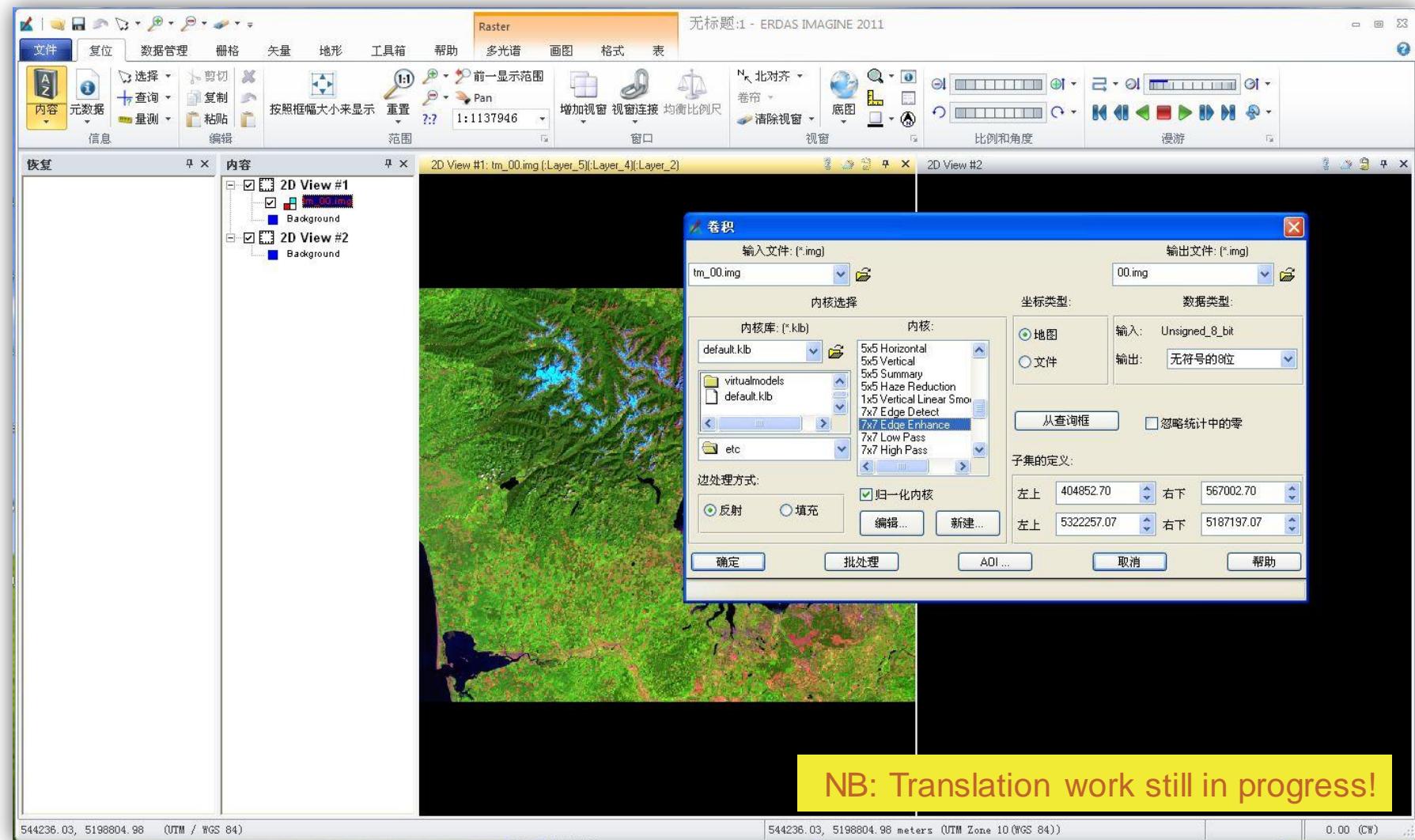
ERDAS IMAGINE 2011

A legfontosabb új képességek

- **Imagery Analysis** tools increase your speed and efficiency with image exploitation workflows for the defense, intelligence and security markets

- **Internationalization** efforts enable partners to develop localized versions of desktop products for improved access to the software

- **Increased processing efficiency** through parallel and distributed processing, which can be further scaled using cost-effective ERDAS Engine licenses

- Further additions to the Ribbon interface improve **ease of use** for data visualization

- **Terrain handling** is extended by enabling visualization of LIDAR data and production of vector contours from digital terrain data

- Extended support for modern sensors including **WorldView-2** pan sharpening algorithms

- Provide **context** and spatial reference to your visualization using the new Bing Maps for ERDAS IMAGINE service

Lokalizáció
ERDAS IMAGINE 2011

NB: Translation work still in progress!
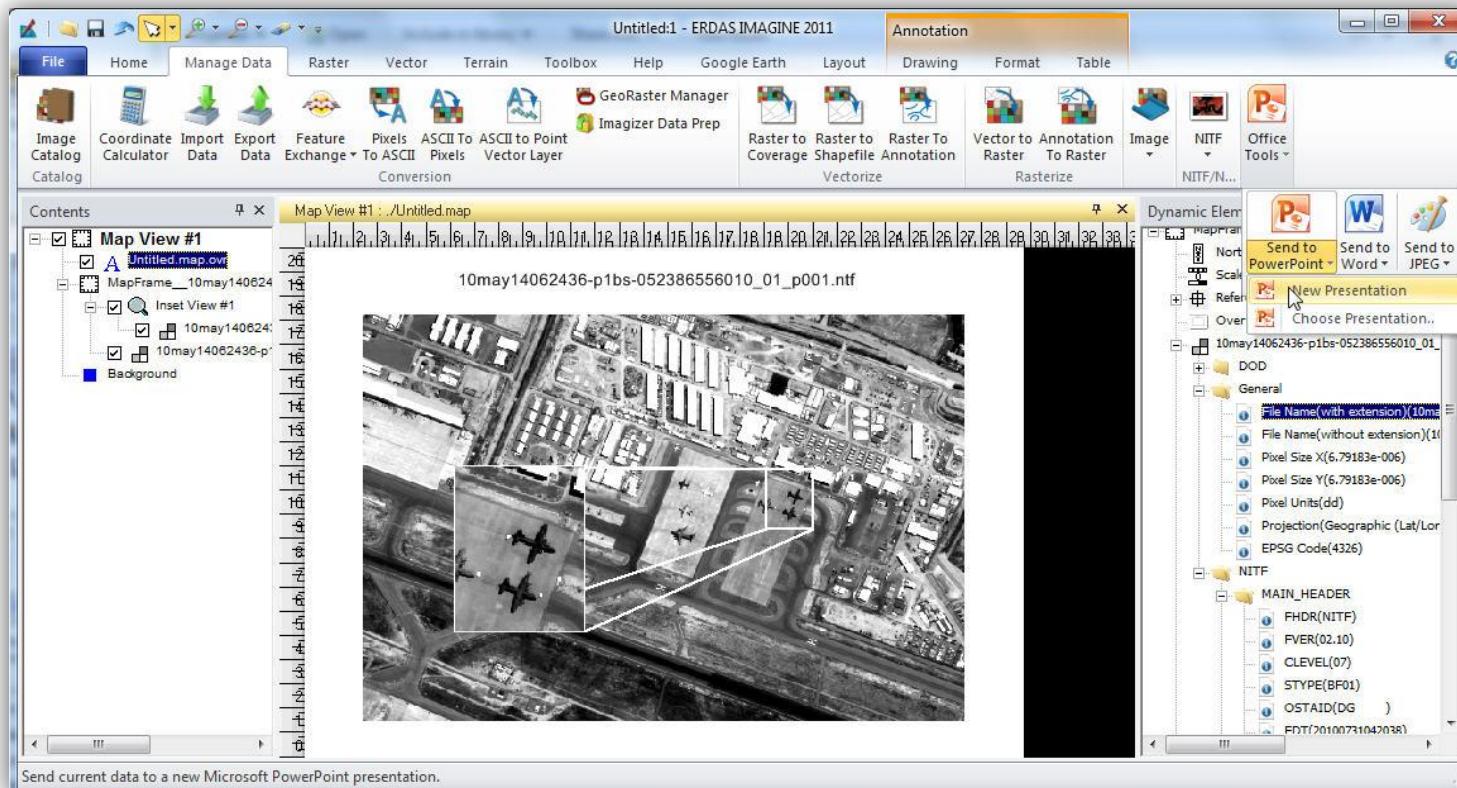
Tipikus képelemzési munkafolyamatok
ERDAS Software 2011
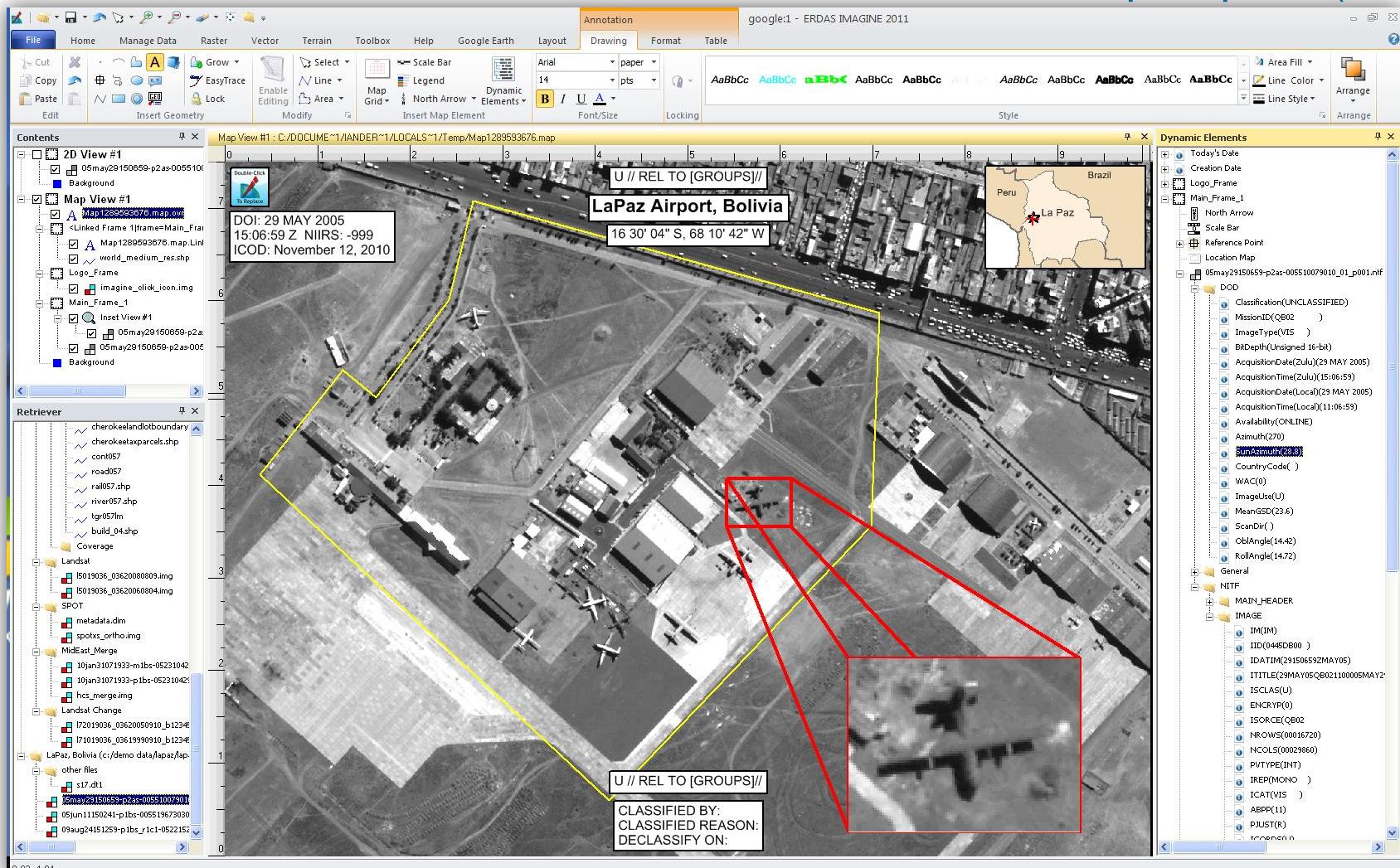
Increase your speed and efficiency with image exploitation workflows for the defense, intelligence and security markets
– Reference, Measure, Analyze, Update and Present more efficiently

Dinamikus feliratok
ERDAS IMAGINE 2011

Metadata Insertion Tool for Map Reports (NITF)
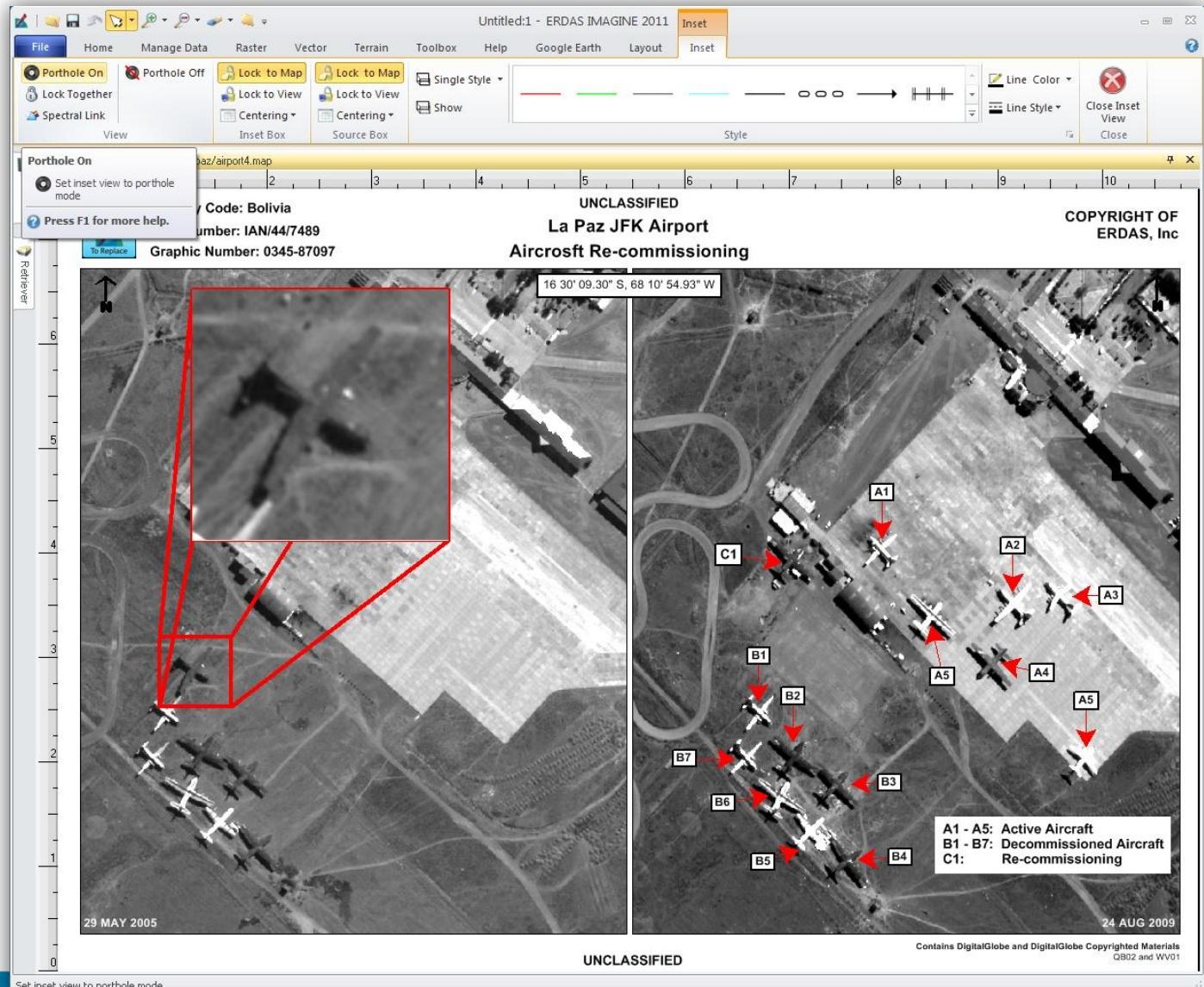
Kinagyított nézet
ERDAS IMAGINE 2011

Call out information of interest using the dynamic Inset View, either of the same data or of other layers

It's a linked View, not a dumb image chip

Átküldés Word, PowerPoint fele
ERDAS IMAGINE 2011
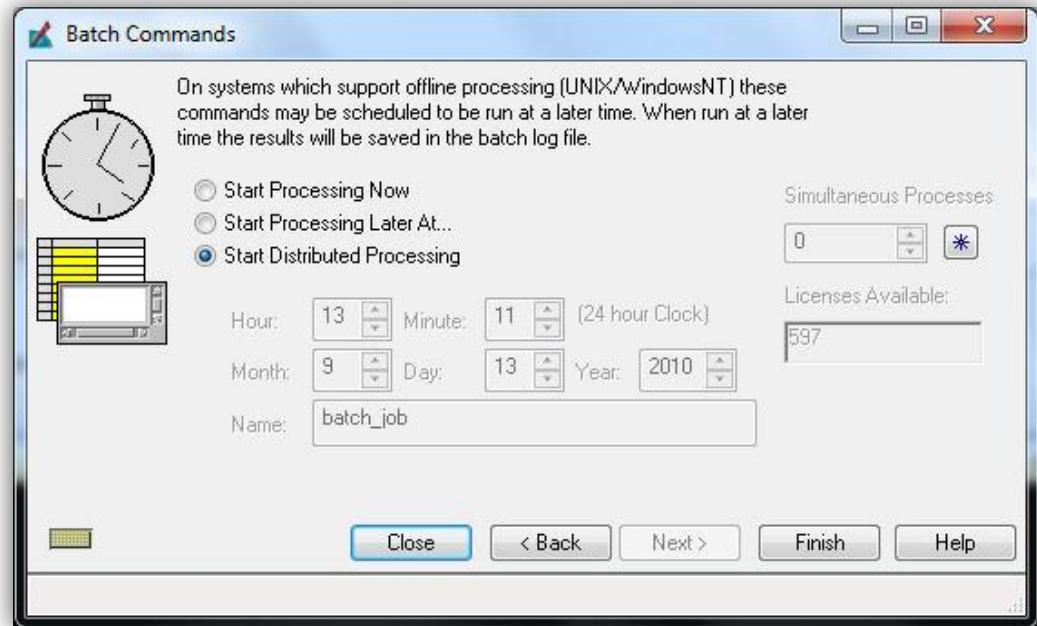
Rapid interaction with the Microsoft Office suite for quickly creating briefings, reports and presentations

Batch – elosztott feldolgozás

- Allows jobs to be run on multiple machines
- Uses Condor for distributed processing
- Leverage under-utilized hardware
- Cost-effective scalability with ERDAS Engine

ERDAS Motor

- ERDAS Engine is a new offering that allows organizations to boost their processing power cost-effectively

- IMAGINE Advantage, IMAGINE Professional and LPS Core all enable simultaneous execution of up to four processes natively

- ERDAS Engine provides the ability to increase this by four more processes per ERDAS Engine purchased, at a price point far below that of purchasing additional ERDAS IMAGINE or LPS seats

Bing térképek

ERDAS IMAGINE, ERDAS APOLLO & ERDAS TITAN 2011
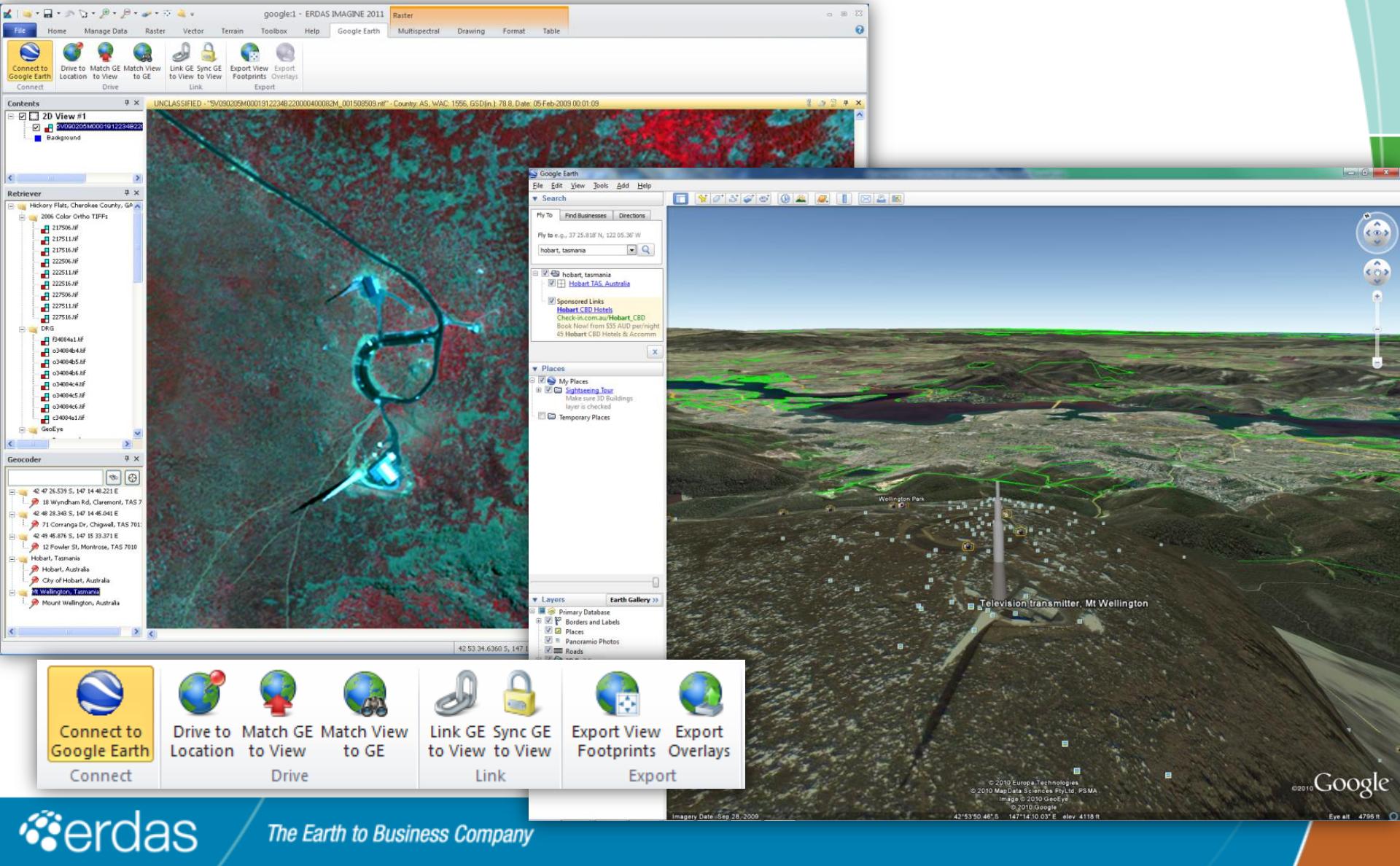
Work with base imagery and map data along with geo-coding services provided by the Microsoft Bing Maps platform - Provides context to your information
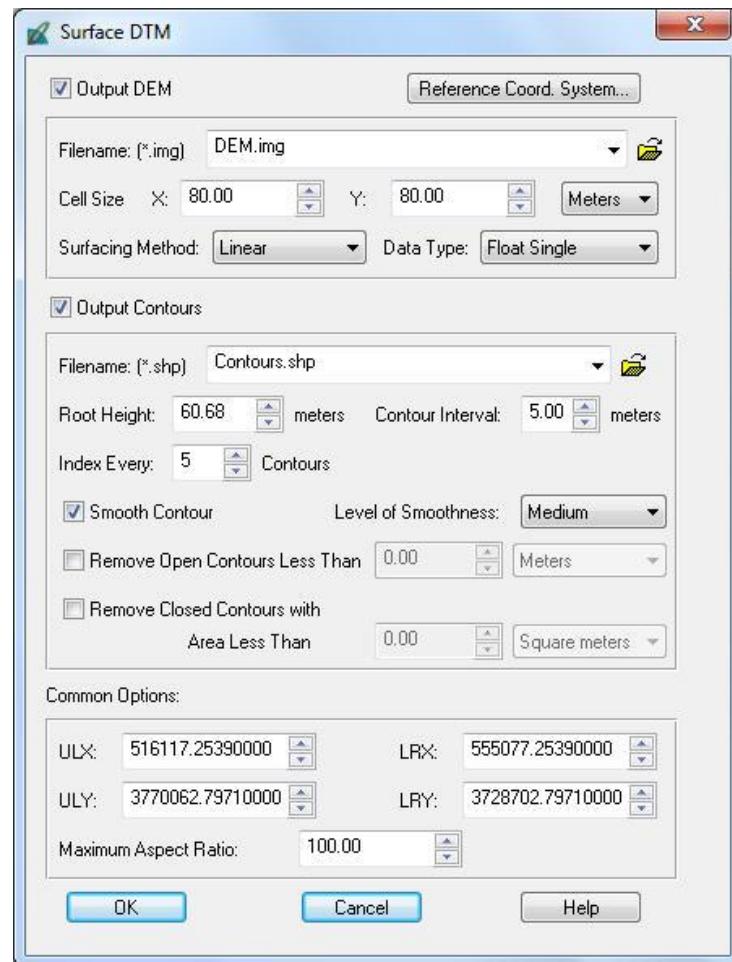
Google Earth Integráció
Exploit your Google Earth environment for information mining

Domborzat előállítás - szintvonalak
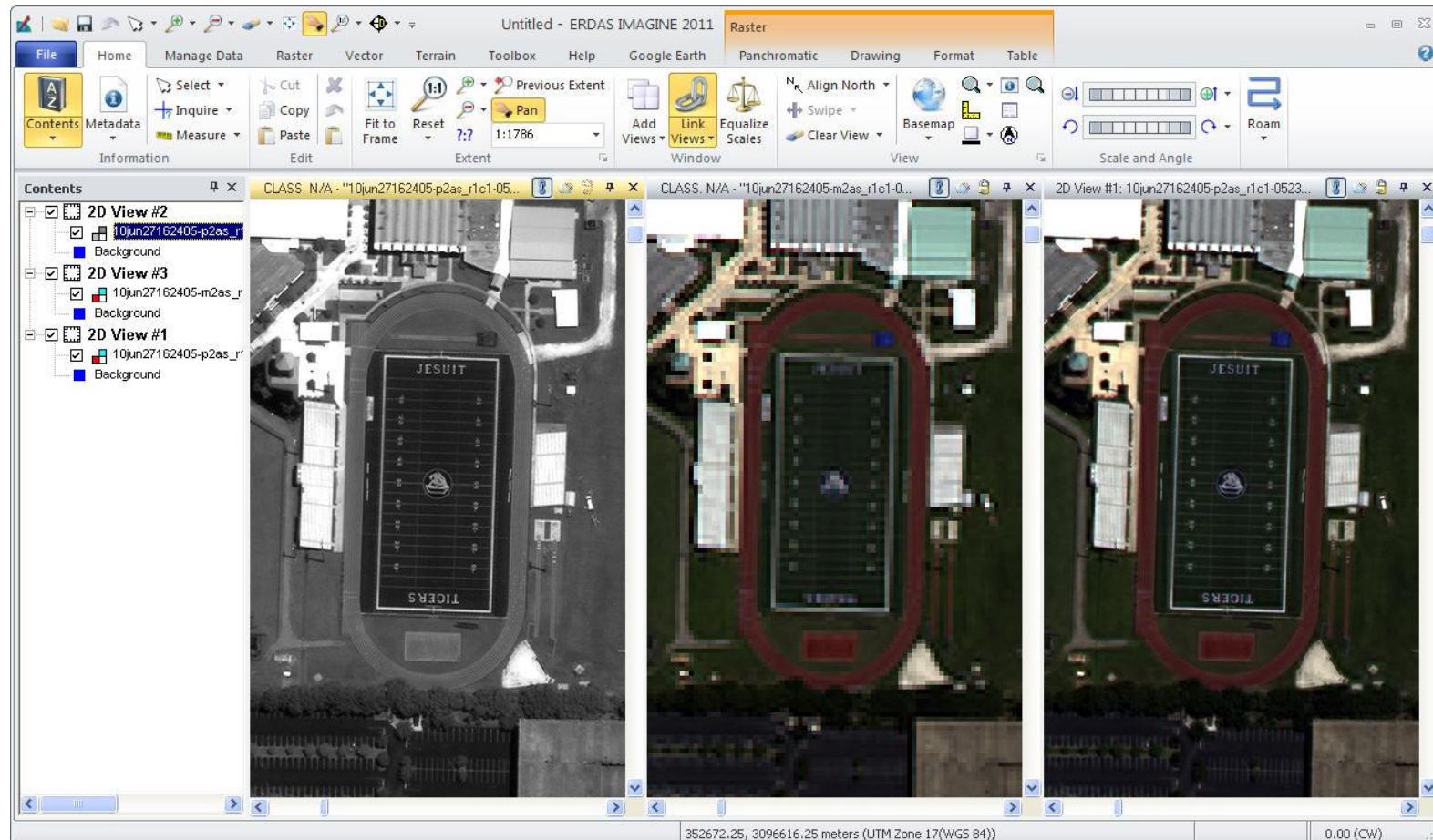

The Terrain Preparation Tool now creates contours from a variety of terrain formats including:

- 3D ASCII
- 3D Shape (.shp)
- DTED
- DWG
- DXF
- LIDAR (.las)
- Raster DEM
- SRTM
- TIN
- And more

HCS képélesítés
## ERDAS IMAGINE 2011
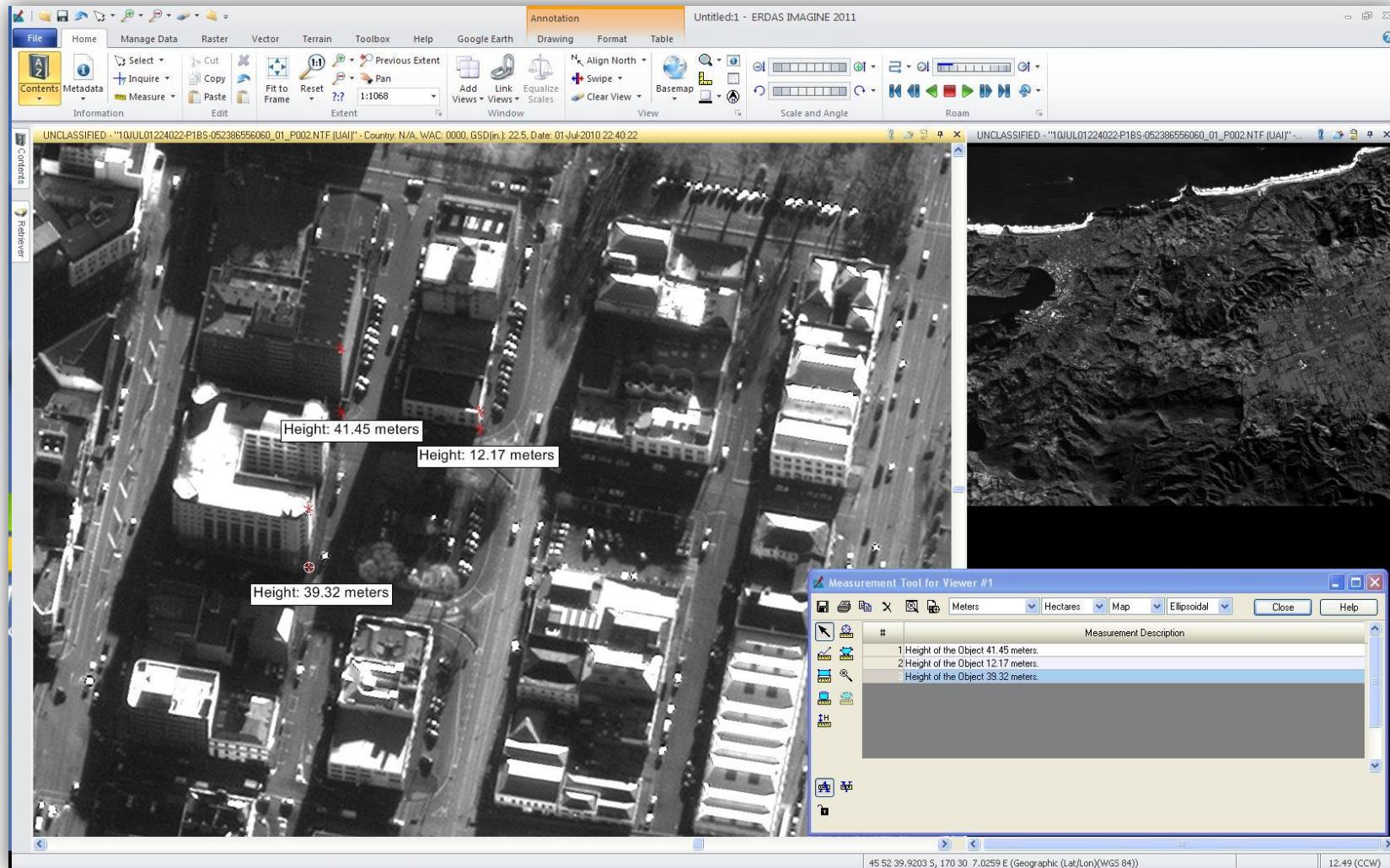
.5 Meter Panchromatic   2 Meter 8 band MS   .5 Meter 8 band MS

Magasságmérés a dőlésből
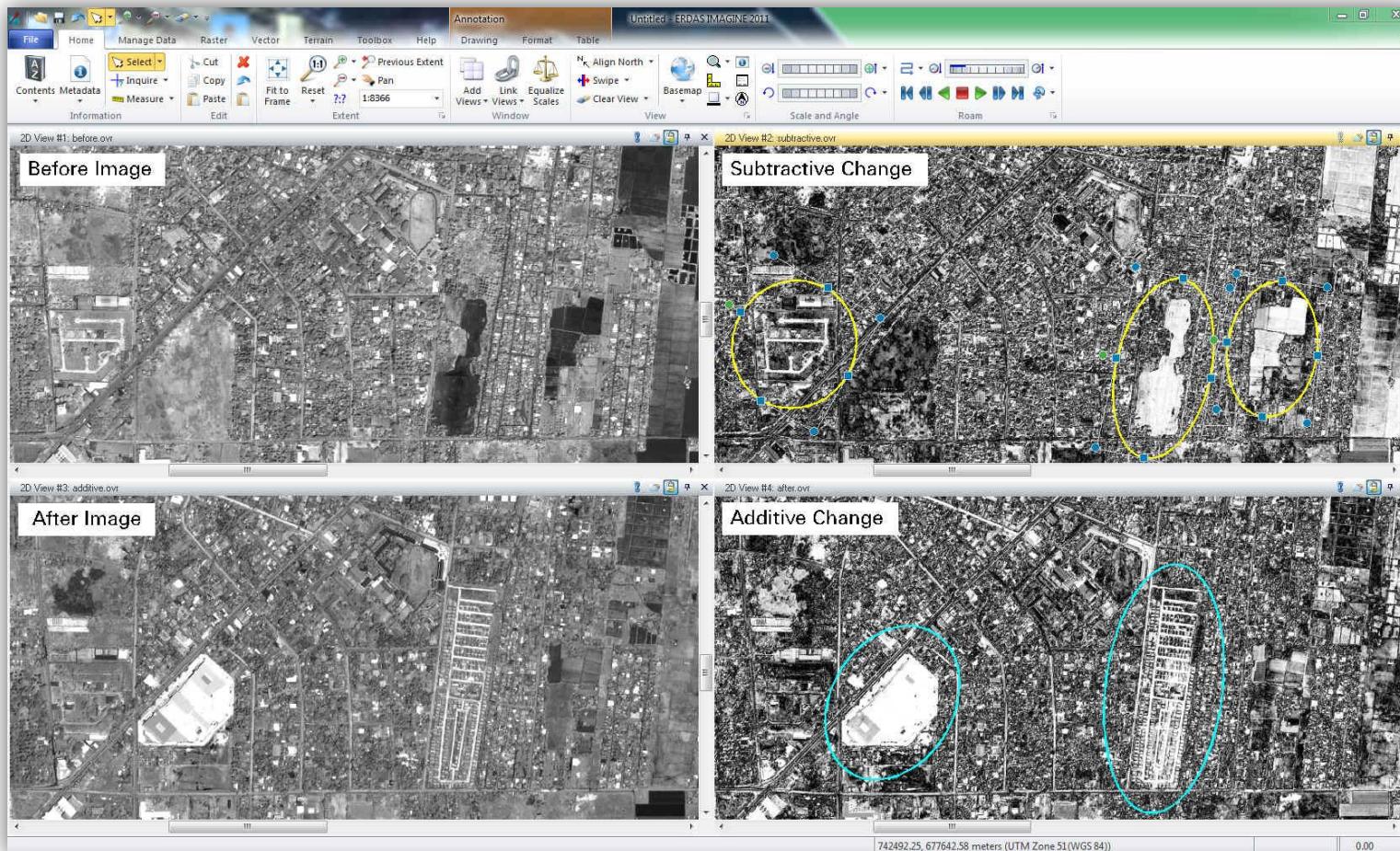
Cost-effectively attribute features and annotations with heights derived from imagery

# Kétirányú változás detektálás
ERDAS IMAGINE 2011
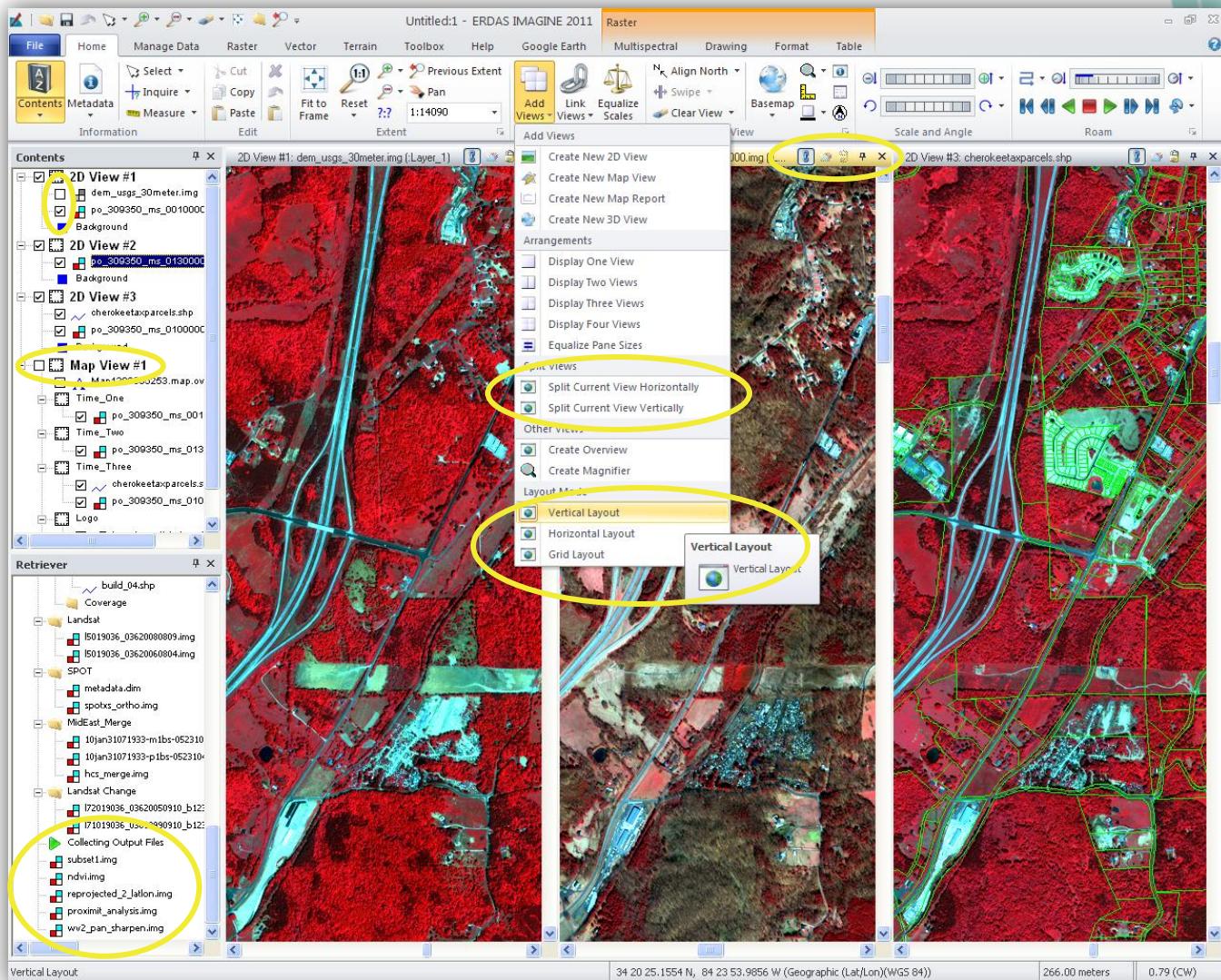
Novel ERDAS algorithm for identifying subtractive and additive change

Könnyed használat
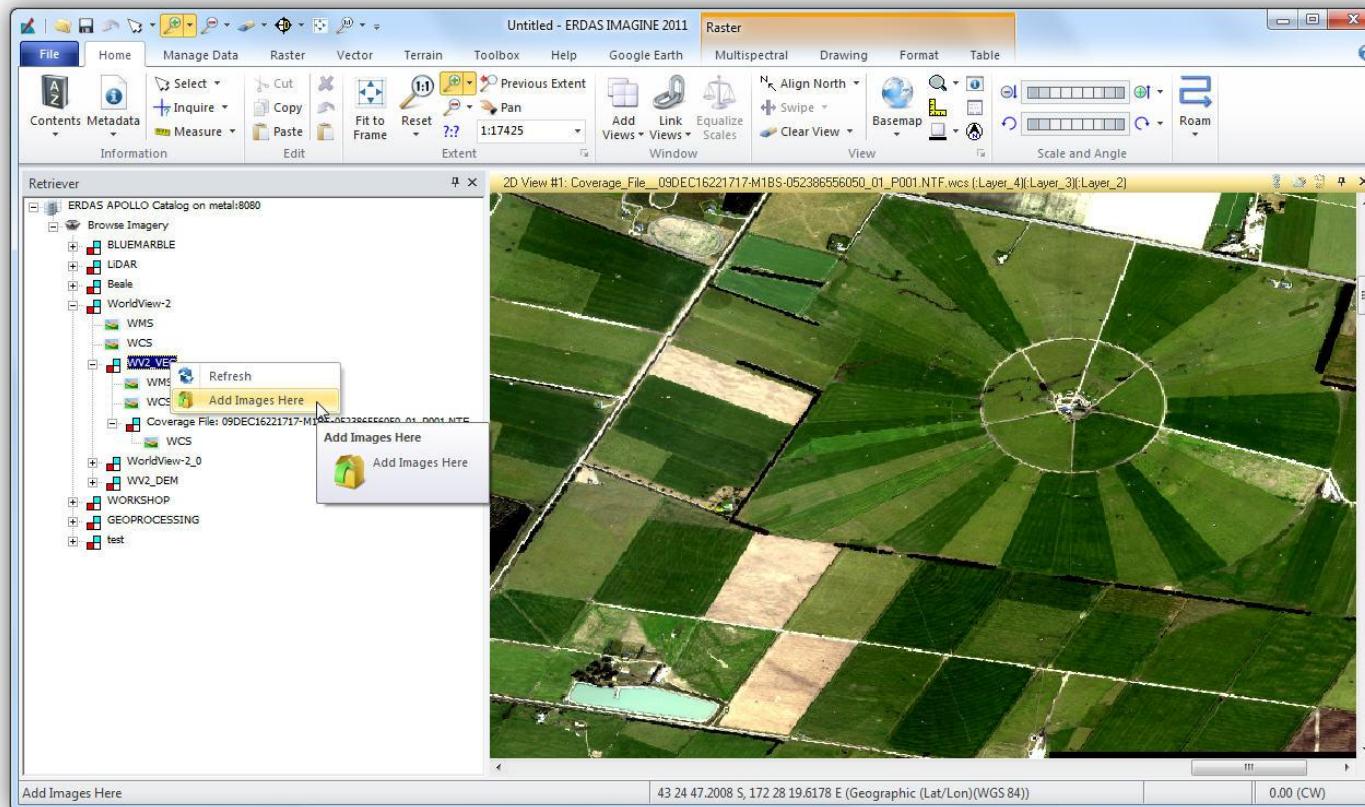
- More control over view layout

- Easy to use link, sync, and spectral link

- Checkbox to turn layers on/off

- Checkbox to hide and unhide views

- New files populate to ShoeBox for easy access

The Earth to Business Company

Gyors publikálás
ERDAS Software 2011

Publish data directly from ERDAS IMAGINE to the ERDAS APOLLO catalog enabling rapid information sharing within an organization

További finomítások, ERDAS 2011

- Improved Special Character support in directories, filenames, etc. (prime example being parentheses)
- Support most recent EPSG codes
- Improved support for latitude/longitude in IMAGINE VirtualGIS
- EGM 2008 vertical datum
- Improved Drop Point rectification
- Streamlined orthorectification options
- IMAGINE & LPS make greater use of RAM when using 64-bit OS (a few pieces in v10.1)
- Use Microsoft Windows Fonts automatically
- Export GeoTIFF tags to .aux, retrieve from .aux
  - Helps preserve GeoTIFF tags when going to Adobe Photoshop
- Rescale has more flexibility in ignoring input values
- Shapefile subset

Köszönöm a figyelmet!

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