

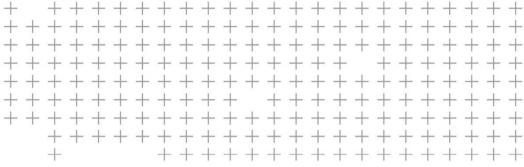
Christian Weise | Product Manager

APRIL 2016









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Introduction

Overview

eCognition® Essentials

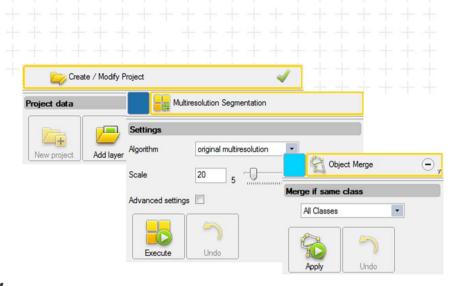
- Powerful out-of-the-box Land Cover and Change Detection Mapping solution
- Allows users at any skill level to quickly produce high-quality, GISready deliverables from imagery

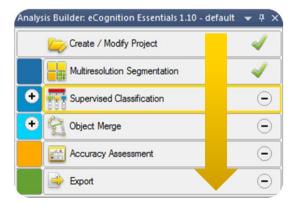




Customer Benefits

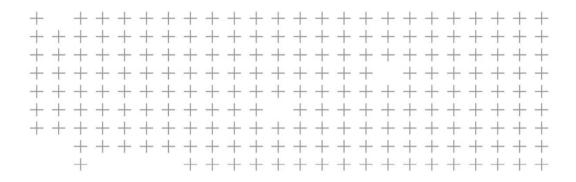
- Low Ramp-up Time → Intuitive graphical user interface to perform land cover mapping on imagery
- Get work done faster → Guided and automated workflows for effectively transforming image data into actionable intelligence
- Trimble Data Marketplace → Rapid discovery and easy access to geospatial data















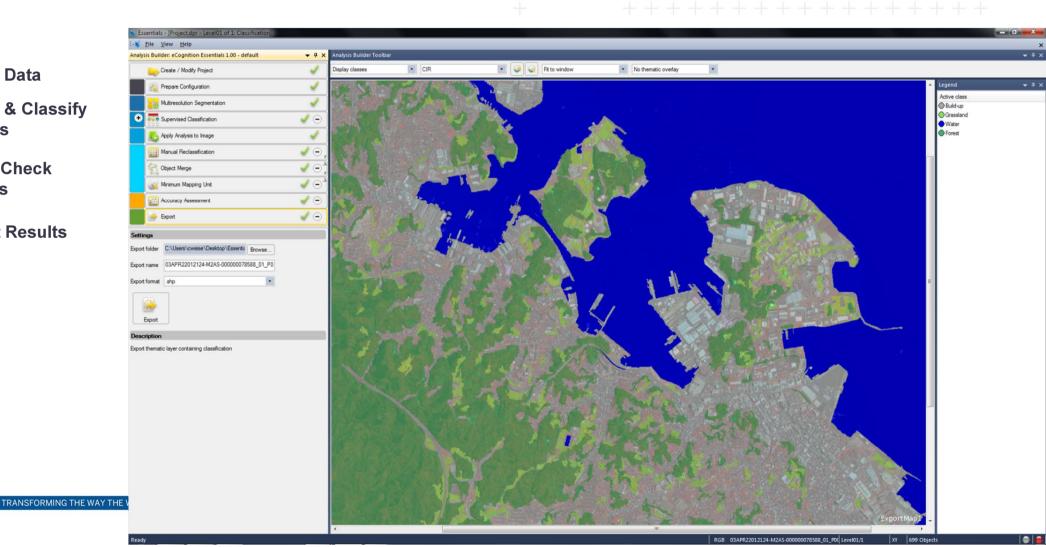
Basic Land Cover Mapping

Import Data

Create & Classify Objects

Edit & Check Results

Export Results



Thematic Change Detection (i.e. Buildings)

Load Image and **GIS layers**

Classify Image Data

Compare **Classification with GIS Layer**

Export Results

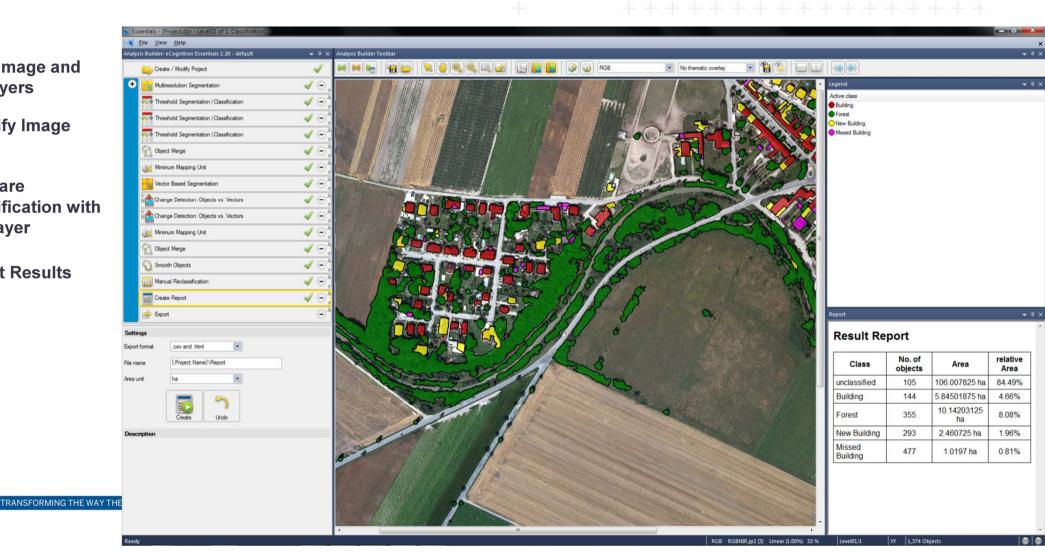


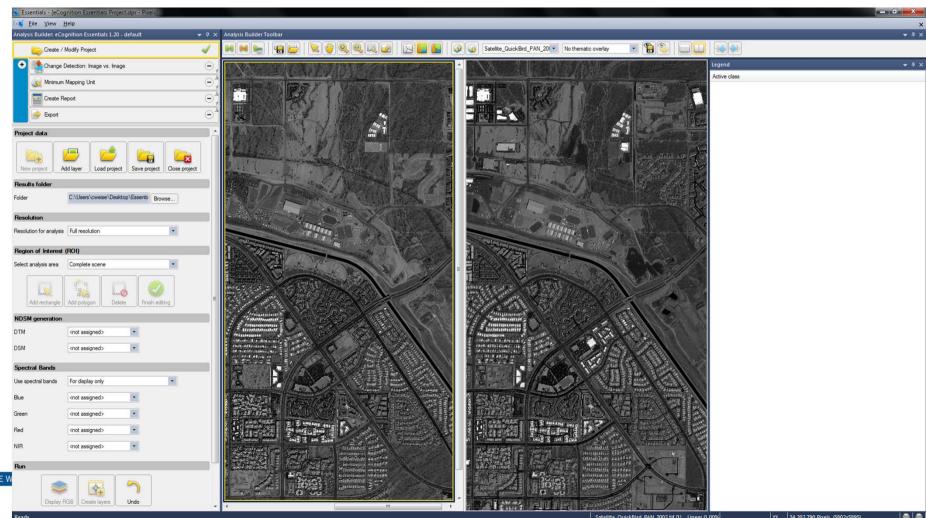
Image Change Detection

Load Images

Create Difference Layer(s)

Classify Changes

Export Results



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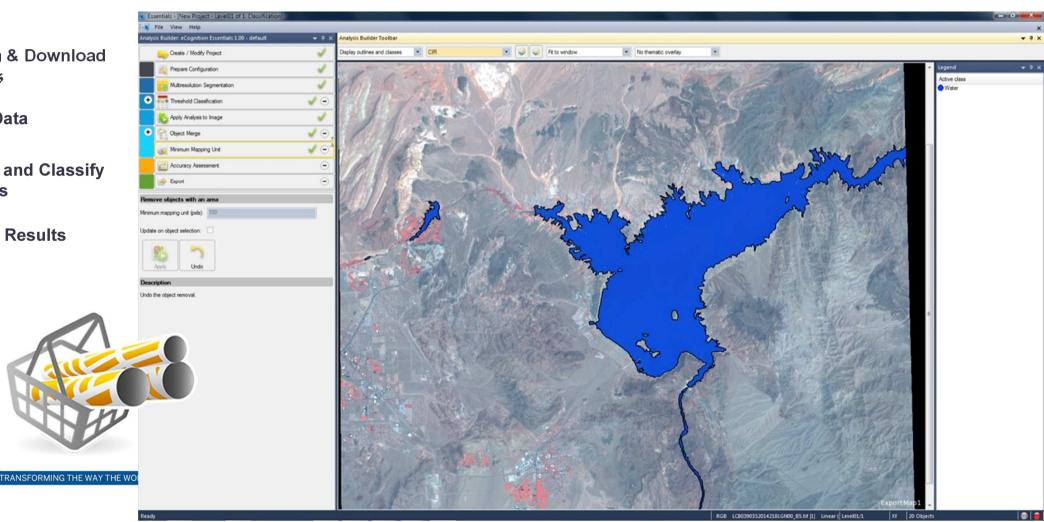
Rapid discovery and easy access to geospatial data via Trimble Data Marketplace

Search & Download **Images**

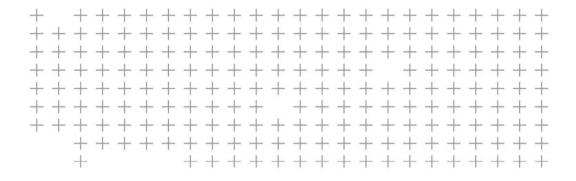
Load Data

Create and Classify Objects

Export Results









Less Complexity, more Capability

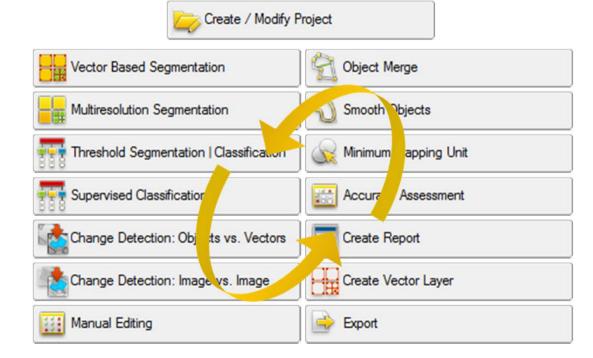
- Easy-to-use User Interface
- Access to automated analysis tasks
- Predefined and structured workflows steps guides users though the analysis
- Covers all steps of a supervised classification in the remote sensing market
- Enables Image and Thematic Change detection workflows





Save Time with Automated Functions

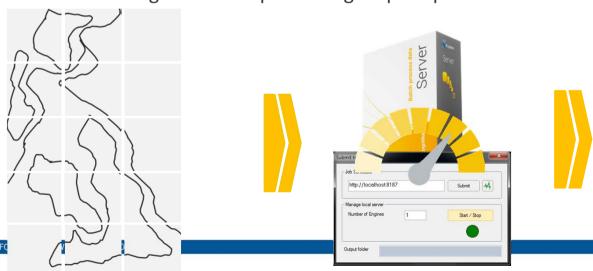
- UI controls allow GIS analysts and Remote specialists to quickly create high quality deliverables
- Functions:
 - Create Projects
 - Create Objects based on GIS Data
 - Create Objects based on Image Data
 - Execute Supervised Classification (Threshold based, SVM, CART, Random Forest, Nearest Neighbor)
 - Execute Thematic Change Detection
 - Execute Image Change Detection
 - Edit Results
 - Reshape Results
 - Check Accuracy
 - Create Report
 - Create GIS Layer
 - Export Results





eCognition Server Support

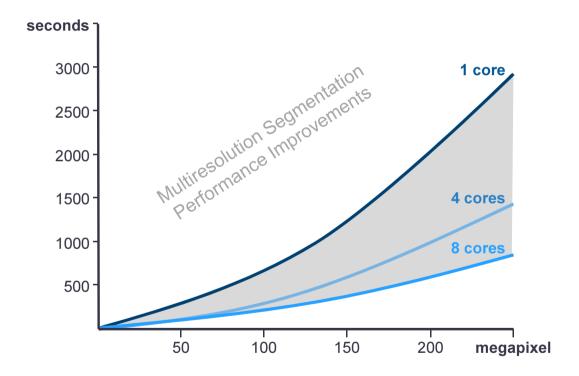
- Submit configured workflow to eCognition Server environment
- Benefits:
 - Allows analysis without manual interventions in batch mode and on dedicated server hardware
 - Increase throughput utilizing batch and parallel processing with the optional eCognition Server environment
 - Saves time that occur if one user performs a manual quality control activity inside eCognition Essentials while other scenes are processed in batch mode
 - Allows customers to efficiently generate more accurate landcover or change information by combining automatic processing steps in parallel with manual interaction





Multi-Core Processing

- Multi-core enhancements in version 1.3 allow users to utilize up to 8 CPU cores for multiresolution segmentation and for index layer generation like the NDVI
- → The new multi-core capabilities maximize the power of computing hardware, reduce processing bottlenecks and allow users to complete projects in up to a third of the time taken with prior versions





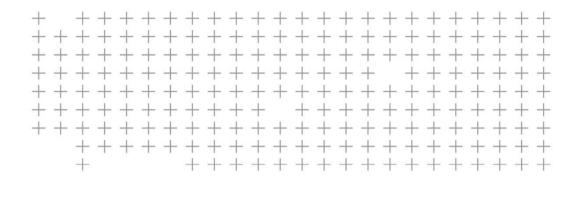


- Considered to be an entry-level product for Remote Sensing Professionals and GIS Experts
- Intuitive standalone application for straightforward analysis workflows
- "Click-and-classify Tool"
- Deliverable is a GIS-ready layer













Ordering, Availability, and Resources

eCognition Essentials 1.3

- Release Date: 13 April 2016
- Who's eligible?
 - All users with a valid maintenance contract as of April 13th, 2016
- The software is available in the Customer Download Area: http://www.trimble.com/imaging/downloads
- Get the Free Trial and learn more about Trimble eCognition on http://www.eCognition.com
- Visit the eCognition Community (more than 12.000 users) to ask questions, follow discussions, download guided tours, and give feedback on http://www.eCognition.com/community







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