

## → THE ESA EARTH OBSERVATION $\Phi$ -WEEK

### EO Open Science and FutureEO

12–16 November 2018 | ESA–ESRIN | Frascati (Rome), Italy

# Maxar and the New Space Economy

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16/11/2018

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# Maxar Technologies is at the nexus of the new space economy



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## Innovative Spacecraft Systems

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Communication and Earth  
observation satellites

Space exploration missions

On-orbit satellite servicing

Robotics for next-gen space

## Space and Ground Infrastructure & Systems

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Surveillance and intelligence  
systems

Defense and maritime systems

Robotics, Sensors and  
Automation

Satellite antennas, electronics  
and payloads

Ground systems

Radar satellites and data

## Satellite Imagery and Geospatial Information

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Electro-optical, high-resolution  
satellite imagery

Geodata layers and  
information products

Mission ready geospatial  
intelligence (GEOINT)

Big data platform and tools

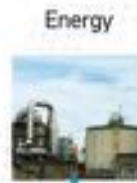
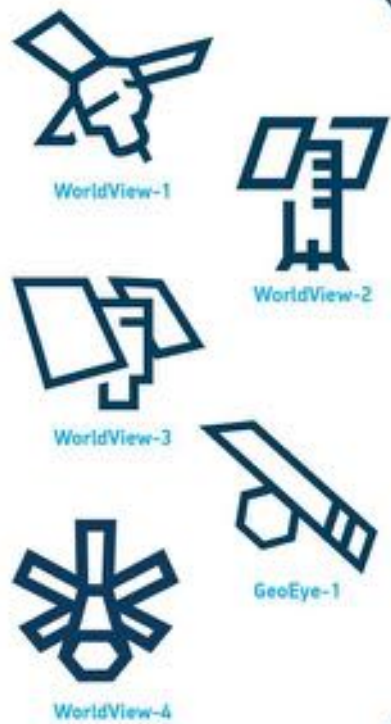
## Agile Geospatial Intelligence, Analytics & Services

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Sensor and ground system  
optimization for near real-time  
geospatial insight

Multisource data enrichment  
and analysis

Machine learning and analytics  
at scale



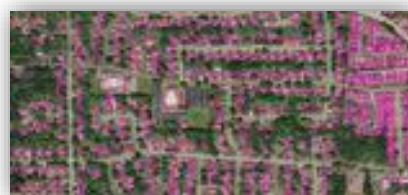


# Partnerships are key to our Product Strategy



## ***Ecopia Building Footprints powered by DigitalGlobe***

- First of its kind, complete 2D vector dataset of building footprint polygons available anywhere in the world
- Created in partnership with Ecopia.ai. Using DigitalGlobe Dynamic mosaics and Ecopia.ai's proprietary, proven, semi-automated process of machine learning and community-sourced annotation.
- Delivered as GIS-ready shapefile, no additional processing required
- Most complete, accurate, and scalable building footprint dataset on the market (>170M footprints)



**Dallas, TX, USA**

### DigitalGlobe Partners with Ecopia Tech Corporation to Generate Building Footprints by Leveraging Machine Learning in the Cloud

April 11, 2016 10:00 AM Eastern Daylight Time

WESTMINSTER, Colo.—**BUSINESS WIRE**—DigitalGlobe, a Maxar Technologies company formerly MacDonald, Detweiler and Associates (NYSE: MAAD; TSE: N049), today announced a partnership with [Ecopia Tech Corporation](#) ("Ecopia") to leverage precisely where buildings are by utilizing proprietary artificial intelligence algorithms and innovative cloud computing to create building footprints. By using Ecopia U.S. Building Footprints powered by DigitalGlobe, customers will have the most current and accurate information on structures in their areas of interest, enabling them to make business decisions with unprecedented speed and efficiency.

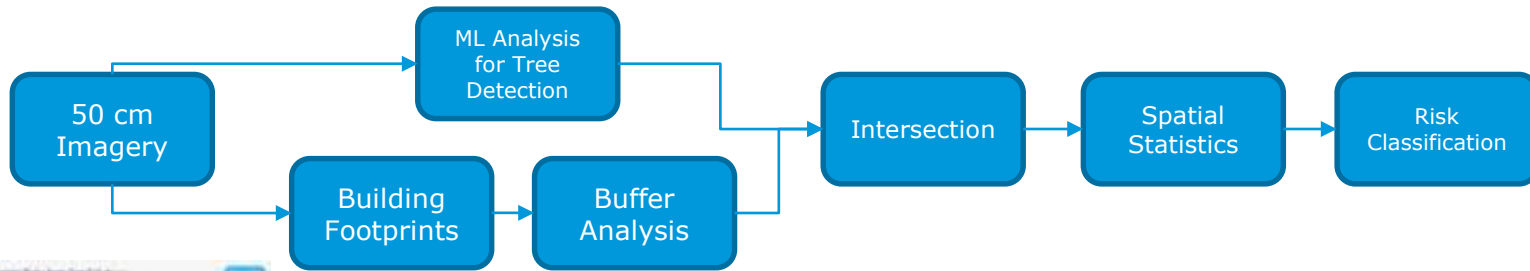
"Ecopia is harnessing the cloud-based computational power of DigitalGlobe to gain immediate, on-demand access to DigitalGlobe's 18-year library of high-resolution satellite imagery."

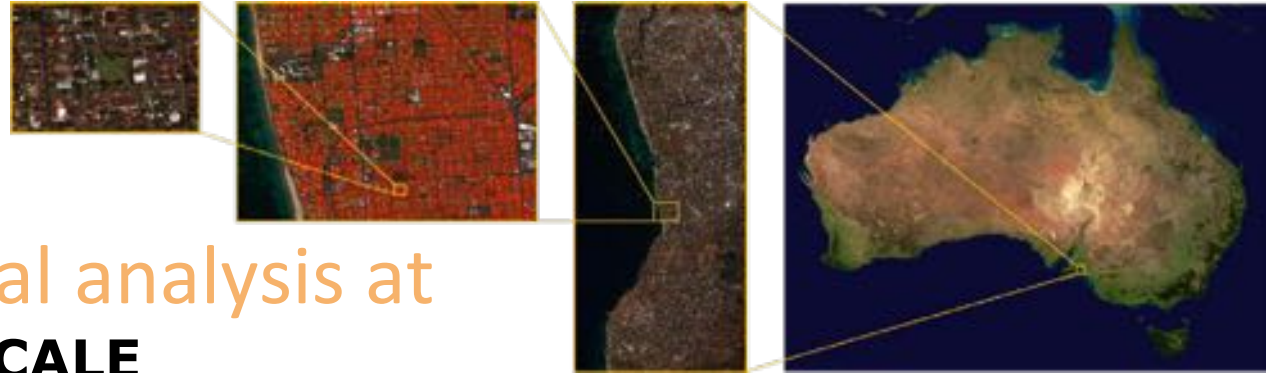
Ecopia, a developer in DigitalGlobe's Geospatial Big Data platform (GBDP) ecosystem, established a process to create building footprints quickly and at scale by leveraging advanced machine learning in combination with DigitalGlobe's cloud-based 100 petabyte imagery library. This innovative approach offers a welcome alternative to outdated footprint sources and the corresponding time-consuming and expensive creation methods. Ecopia U.S. Building Footprints powered by DigitalGlobe provides actionable insights for observing, analyzing, and monitoring business processes like supply chain management, urban planning, and asset monitoring for industries such as energy, insurance, real estate, telecom, and location-based services. Starting with the United States, the two companies will extract highly accurate 2D building footprints across the Earth, then refresh the datasets to find and track change over time, which is valuable information to businesses. Several national service providers are already using the building footprints in their industry-leading applications.

"Ecopia is harnessing the cloud-based computational power of DigitalGlobe to gain immediate, on-demand access to DigitalGlobe's 18-year library of high-resolution satellite imagery," said Bill Singleton, Ecopia Tech Corporation Vice President. "Combining our algorithms with DigitalGlobe's technology allows Ecopia to extract and update building footprints at a scale and speed never before thought possible."

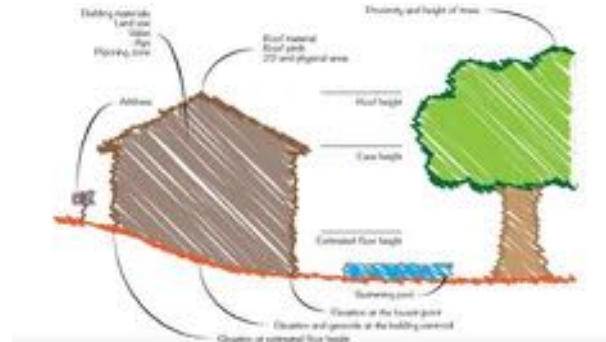


# 2<sup>nd</sup> & 3<sup>rd</sup> Order Derivatives for Forest Fire Risk Assessment





## GBDX supports spatial analysis at CONTINENTAL SCALE



~ 7.6M sqkm  
~ 24M people  
15M structures



# Partnerships are key to Growth in the New Space Economy



- Satellite Imagery, AI, Cloud computing and Ecosystem Partnerships are key to unlocking new markets.
- AI is now approaching the level of quality achieved by humans; and new product opportunities are available.
- 2<sup>nd</sup> and 3<sup>rd</sup> order derivative products leveraging both AI and traditional GIS/Remote Sensing techniques are unlocking these opportunities.
- Partnerships are critical in this day and age to meet the growing set of customer use cases facing the geospatial industry.