

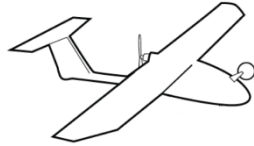
# Terrascan Mapping Technologies

Company Profile



**Terrascan**  
Mapping Technologies

# Fast & Competitively Priced Services



## WHAT?

Unmanned aerial vehicles deliver photogrammetric mapping, oblique and stereoscopic aerial photographs, and 3D Modeling



## WHERE?

Israel; Western and Eastern Europe; Russia; South Africa; South east Asia; New-sealand



## HOW?

Out-bid ANY quote (Price)  
Out-perform existing platforms (Accuracy)  
Ultra-fast delivery (Schedule)



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What does Terrascan Labs offer to you?

# SERVICES

# Aerial Photography, Orthophotos and Photogrammetric Mapping

- Vertical and oblique aerial photographs are shot with stabilized HD digital equipment
- Industry standard photogrammetric maps for surveys and project planning.
- High resolution Orthophotos with optional additional information layers as required



# 3D Terrain Mapping



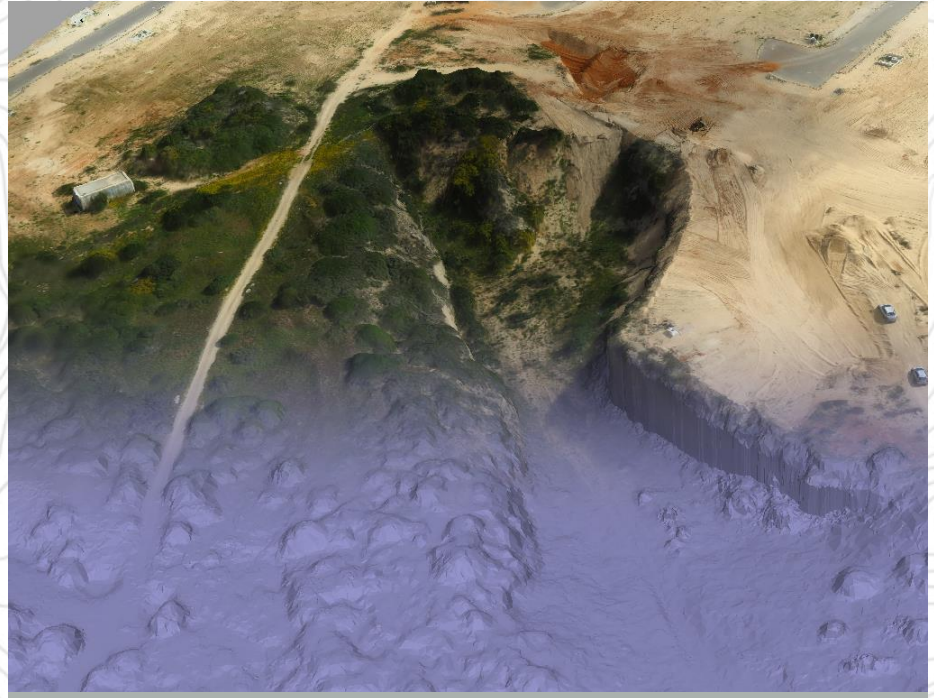
Using our state of the art 3D imagery system, we are able to generate high detail (5cm/Px)

***DEMs (Digital Elevation Model)***

and

***DTMs (Digital Terrain Models)***

which can be used for planning purposes, simulations, precise measurements, and much more.



# 3D Modeling

- Advanced computational servers enable the creation of highly detailed **3D models**
- Can include surface details
- Applications:
  - Exterior assessment
  - Project simulation
  - Marketing purposes
  - Volume measurement
  - And more...





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Post mapping analysis enables a vast range of products

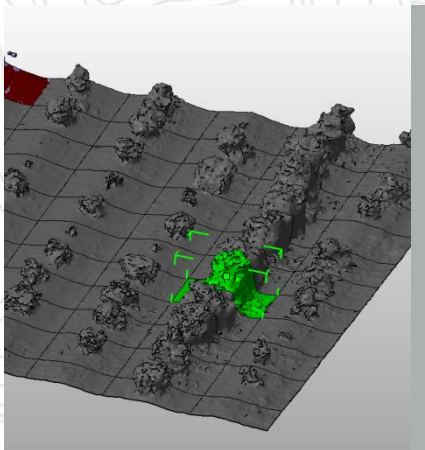
# ANALYSIS

# Analysis



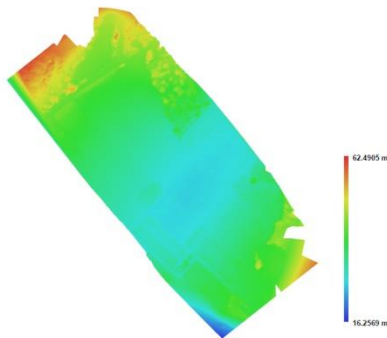
## Object Analysis

Identifying abnormal objects within a vast group



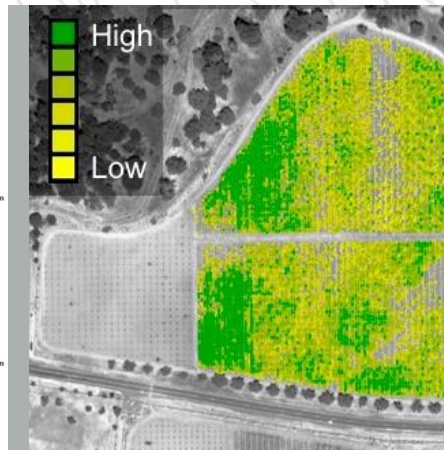
## Height Analysis

Exemplifying data in easy to analyze formats.  
Example: Height by color



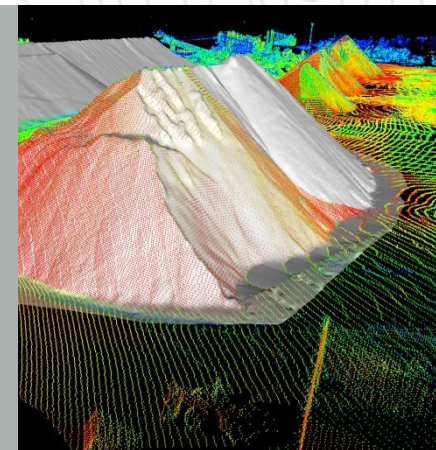
## Composition

Scanning via hyper spectral sensors enables water content analysis



## Volume

Analyzing 3D models enables exact and fast volume measurement







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About the Terrascan technology

# TECHNOLOGY

# UAV Technology

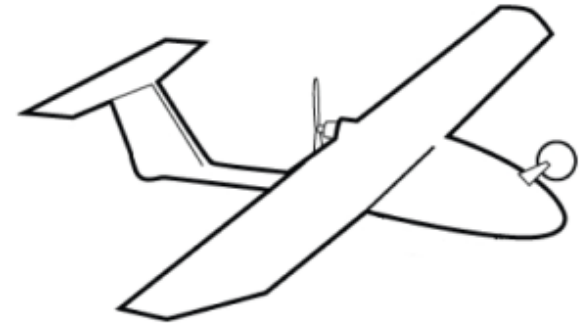
Strategic competitive advantage derives from:

- Unmanned
- Light weight
- Easy to Ship & Deploy
- VTOL/VSTOL
- Low cost
- Below the clouds
- Green technology

TerrascanB – Multirotor, AKA “Becky”



TerrascanC – Fixed-Wing, AKA “Chuck”



## Technical Details

- Flight time: Ranging between 10 minutes and 1 hour
- Altitude: Up to 100 meters
- Speed: From hovering (0 m/s) to 65 km/hr
- Payload: up to 6kg
- Wingspan Fixed wing - 180cm
- Size Multi Rotor - 139cm
- Materials: Carbon fiber tubing

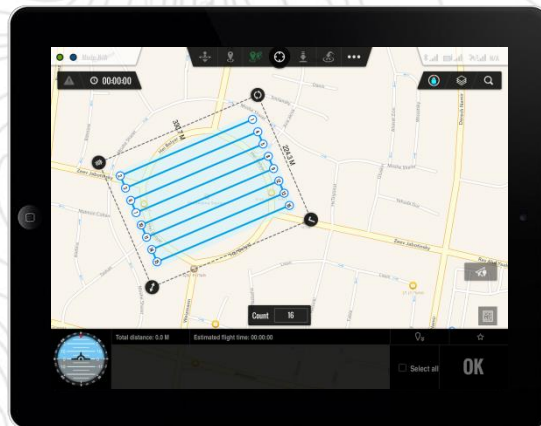
# Operational Scope



- Flight VLOS range: approximately 850m
- Flight BVR range: Not available
- Coverage:
  - 0.2 km<sup>2</sup> to 1 km<sup>2</sup> in single flight
- Daily: Up to 4 flights
- DEMs with up to 10cm/Pixel
- Orthophotos with up to 5cm/Pixel
- Map scales: 1:100 to 1:10,000
- Weather: Handles up to 35kt winds
- Operational Ceiling: 100m



Using Satellite Imagery and telemetry in Real-time



Flight plan programming and upload



Individual waypoint adjustment

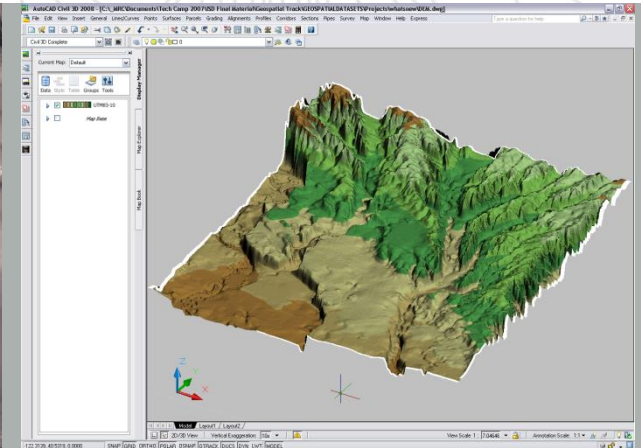
# Output Specifics

Wide variety of 3D output formats to suit client needs:

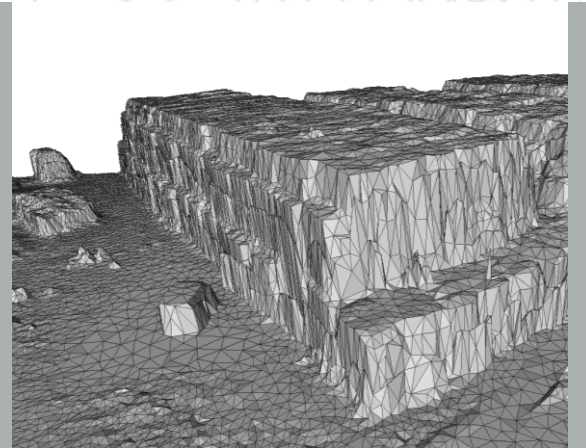
- PLY
- 3DS
- FBX
- Universal 3D
- 3D PDF
- DirectX
- Autodesk Maya
- GeoTIFF
- XYZ
- ASPRS
- LAS
- Google KMZ/KML
- COLLADA
- VRML
- OBJ



GeoTiff reader example



Autodesk Civil 3D



Multiple formats for 3D calculations



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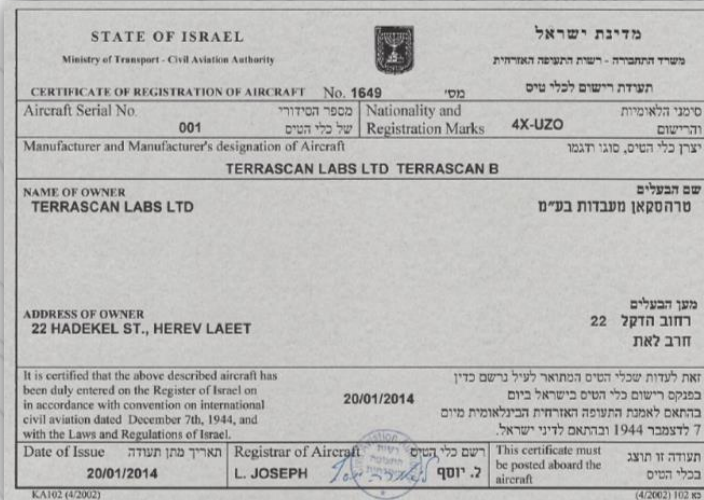
Things you ought to know about our company

# COMPANY

# Certification & Insurance



- Terrascan Labs LTD is CAAI certified for:
  - UAV manufacturer
  - Operational license
  - Platform licenses
  - Piloting licenses
- Insurance
  - Insured by MARSH international
  - In excess of CAAI requirements on all criteria





**EREZ BITTON**  
Co-Founder

Erez Bitton fell in love with all things airborne while serving as an F-16 fighting falcon pilot in the Israeli Air force. During his service, Erez gained expertise in advanced mapping and modeling techniques.

Erez is in charge of all data analysis of acquired data using the company's computing servers. In addition, Erez manages the sensors department within the company.

Erez has a BA in Mathematics and Computer Science from the Ben-Gurion University coupled with an MBA from the Peres Academic Centre.



**LEE LASTER**  
Co-Founder

Lee Laster has been tinkering with aerial unmanned drones for the past 27 years. A veteran of the Israeli Air Force, Lee has helped develop advanced avionics and flight instrumentation.

Lee is in charge of the platform R&D efforts as well as the company's chief operational flights officer. Lee is a licensed UAV pilot.

Lee has a BA in computer science, an MBA from the Interdisciplinary Centre in Herzeliya and a diploma for post-MBA executive studies at the Wharton school of business in Pennsylvania.



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The benefits of working with our company

# ADVANTAGES



# ADVANTAGES



- **Budget**
  - We aim out-bid and out-perform your best quote
- **Fast delivery time**
  - We deliver prompt service. Twice as fast as anyone else
- **Money back guarantee**
  - Yup. This is not a typo, we'll give you your money back if you are not satisfied with our products.
- **Flexibility**
  - We scan locally. Almost anywhere. Bespoke to customer needs.
- **Low risk**
  - We eliminate the risk of aerial human pilots
- **Green company**
  - We are a carbon emission free company
- **Passion**
  - **We love this job. It was our dream. Now we're living it**

# Contact us



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