

LiDAR点群処理ソフトウェア

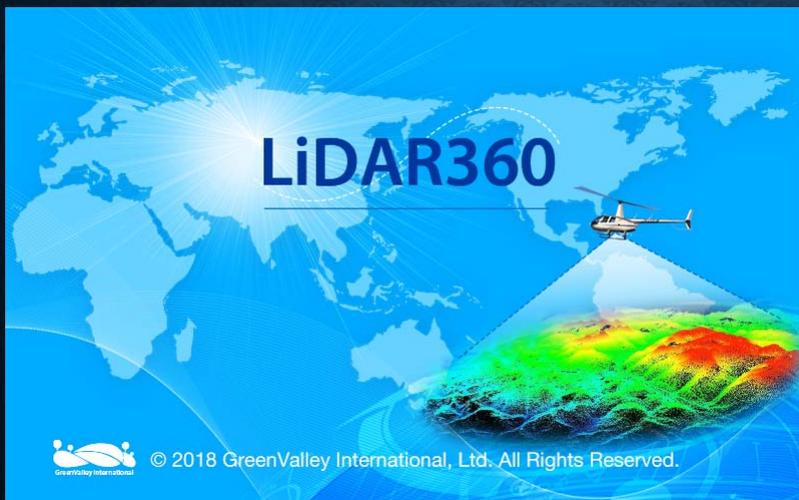
LiDAR360



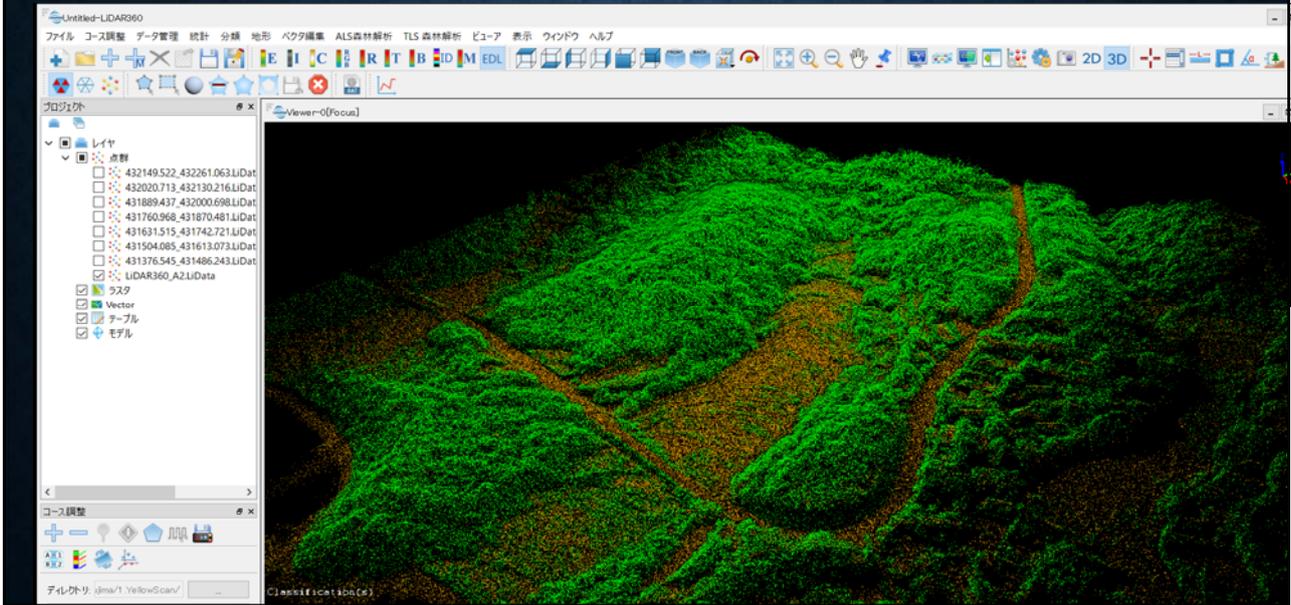
GreenValley International
Map the World in 3D

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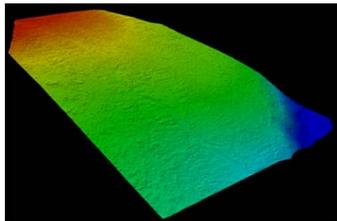
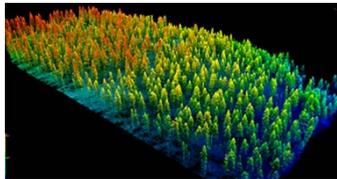
… LiDAR点群総合後処理ソフトウェア



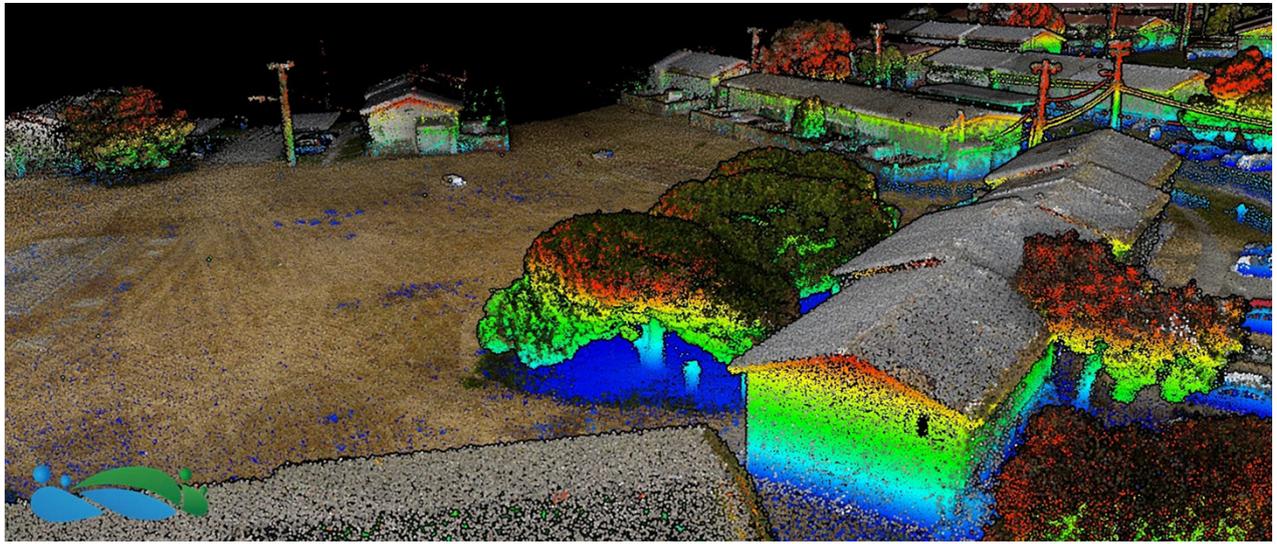
■ 日本語化インターフェイス



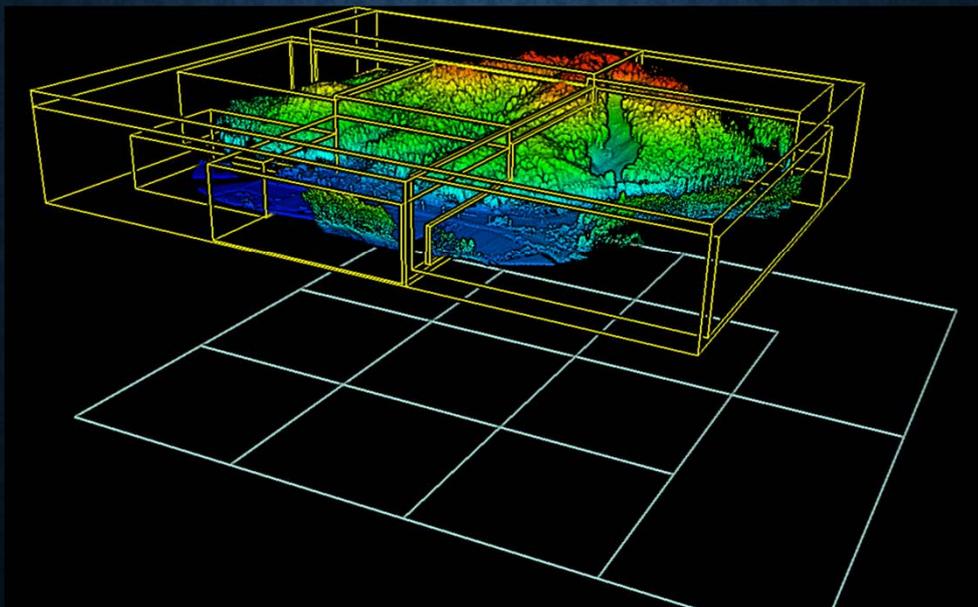
■ 様々な点群表示機能



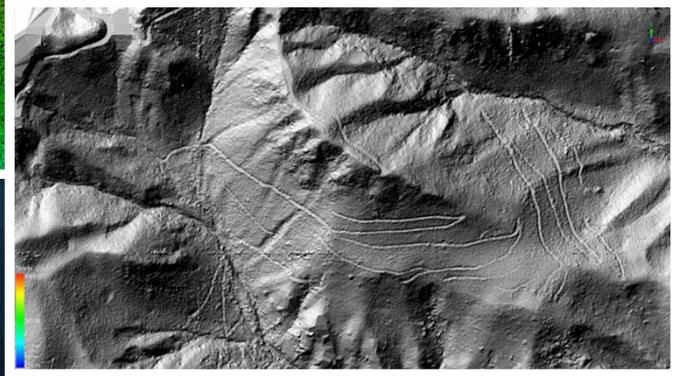
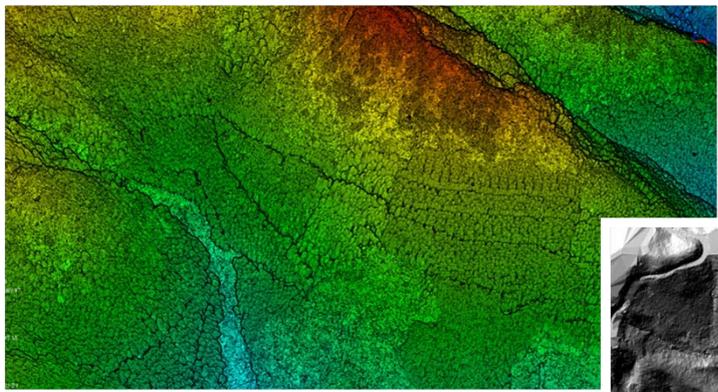
■ 様々な点群表示機能



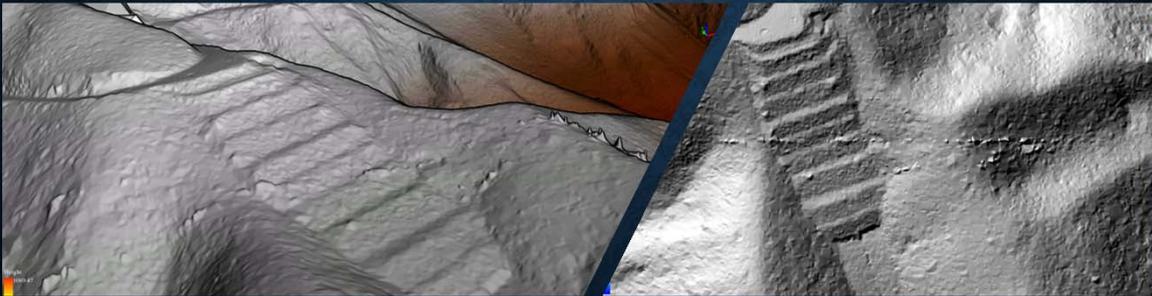
■ ブロックによるデータ管理



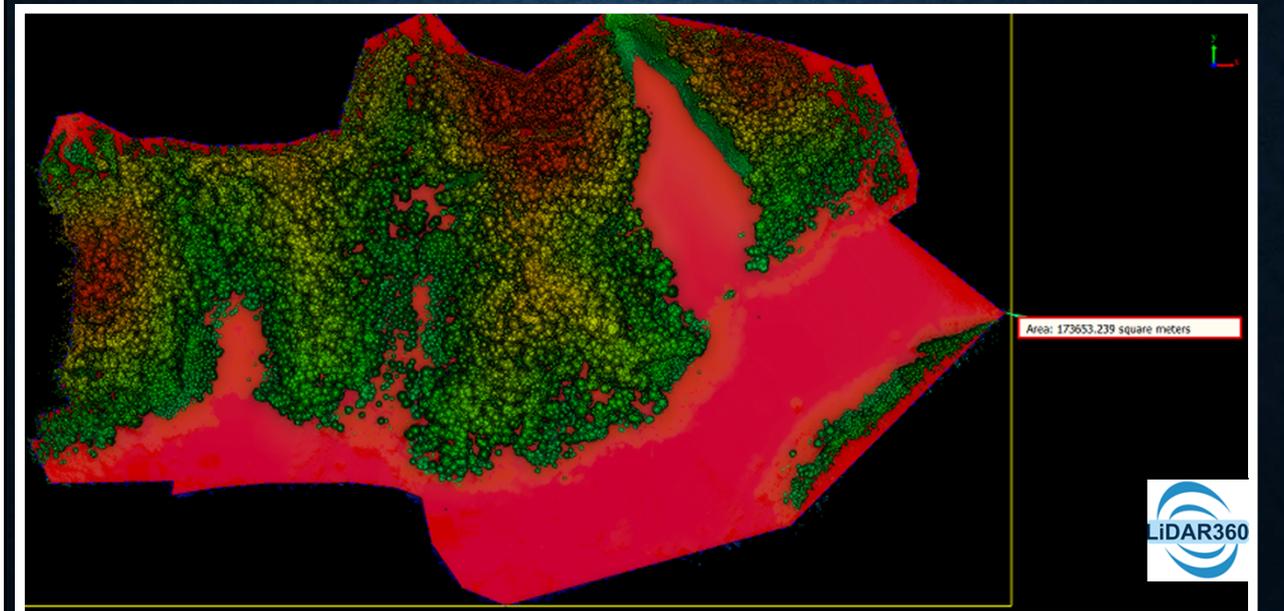
■ データの評価



■ データの評価



■ 計測機能（面積・距離・角度・樹木高）



■ バッチファイルによるデータ処理の半自動化

ファイル コース調整 データ管理 統計 分類 地形 バクタ編集 ALS森林解析 TLS森林解析 ビューア

Batch Processing

Point Cloud List:

D:/Japan_Workshop/Data/Kyoto_Forest_Demo_Site/20180925/Original_Data/2 ^
 /Japan_Workshop/Data/Kyoto_Forest_Demo_Site/20180925/Original_Data/2 ^
 D:/Japan_Workshop/Data/Kyoto_Forest_Demo_Site/20180925/Original_Data/2 ^
 D:/Japan_Workshop/Data/Kyoto_Forest_Demo_Site/20180925/Original_Data/2 ^
 D:/Japan_Workshop/Data/Kyoto_Forest_Demo_Site/20180925/Original_Data/2 ^
 D:/Japan_Workshop/Data/Kyoto_Forest_Demo_Site/20180925/Original_Data/2 ^
 D:/Japan_Workshop/Data/Kyoto_Forest_Demo_Site/20180925/Original_Data/2 ^

Function List

Outlier Removal
 Normalization
 Normalization by Ground Class
 Tile by Range
 Tile by Point Number
 Merge
 Boundary
 Subsampling
 PCV
 Define Projection
 Reproject
 Extract Color from Image
 Subdivision
 Transformation

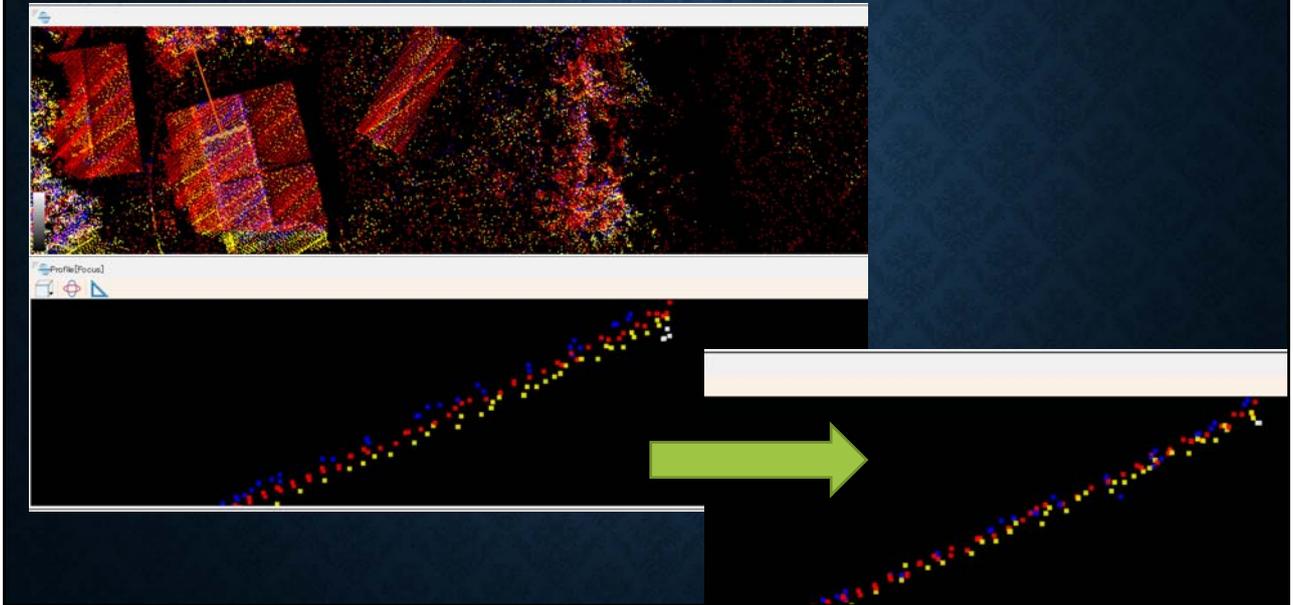
Output path: ...

Threads Num(1-32): 4

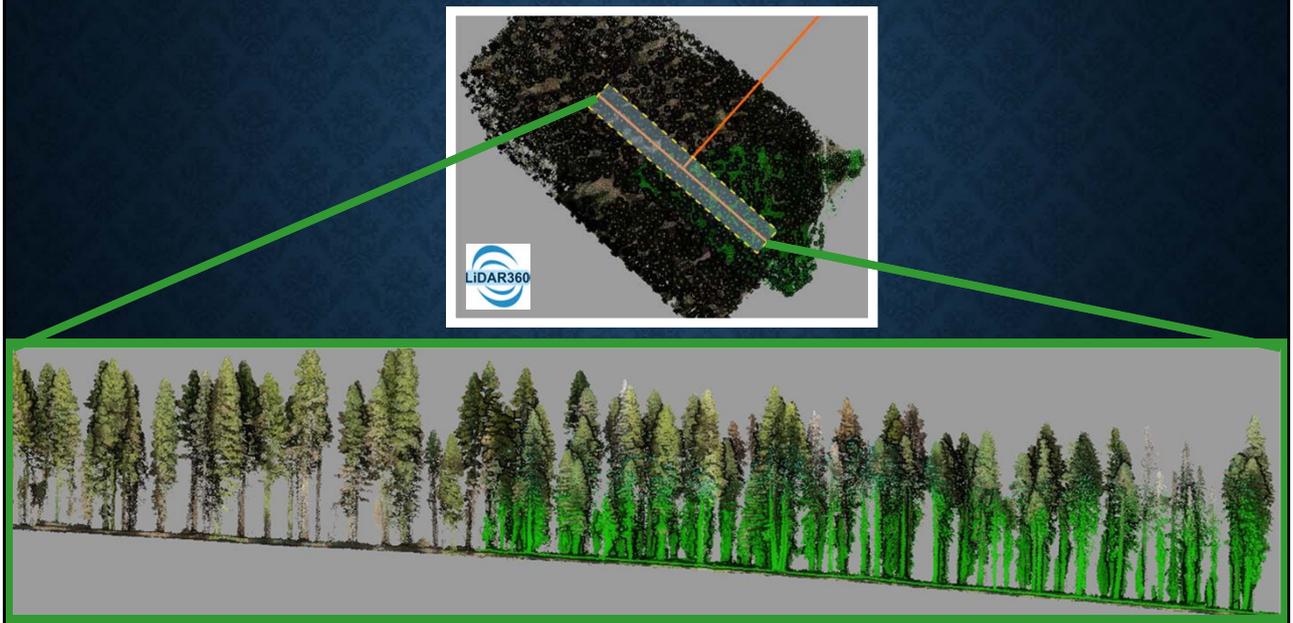
Execute Cancel

- ・ 専門オペレータ不要
- ・ 時間の有効活用による処理の迅速化

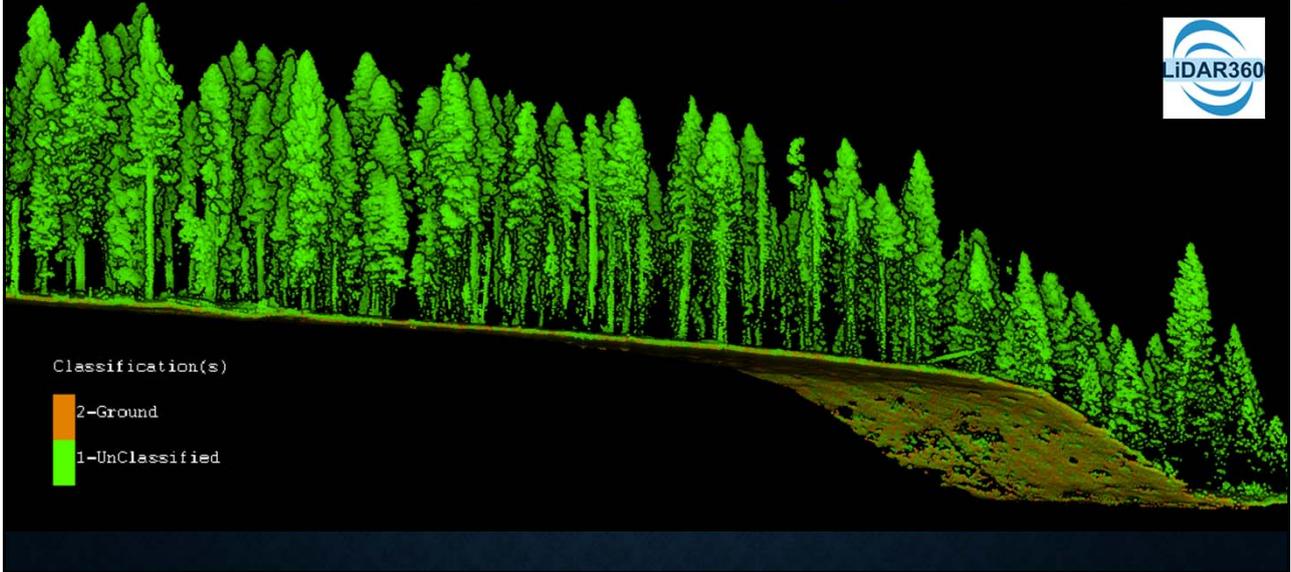
■ コース間調整機能



■ 任意箇所で作断面作成。スムーズなデータ確認



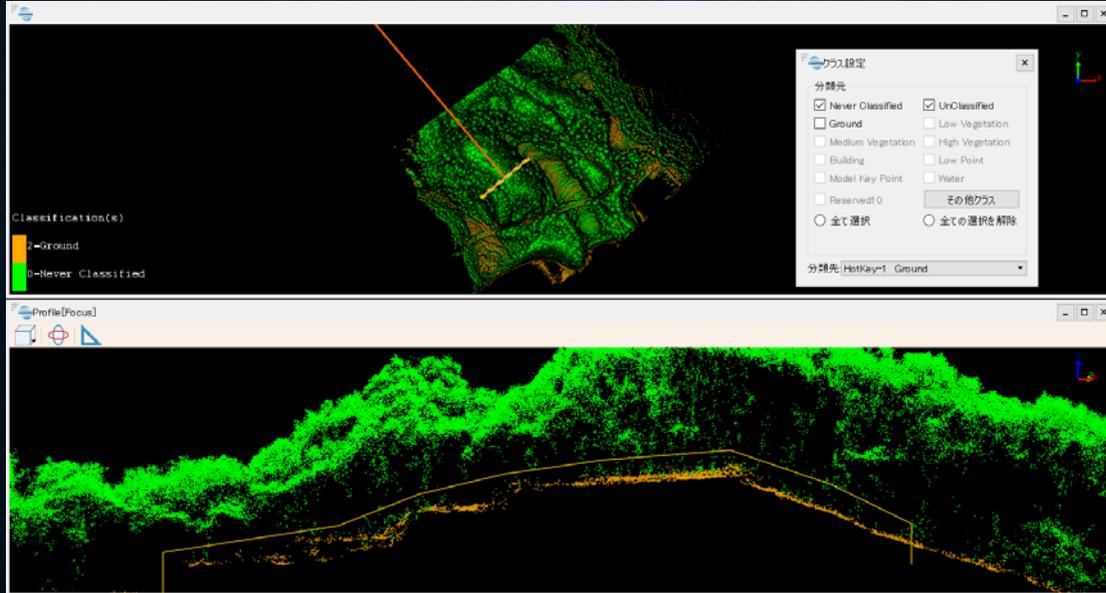
■ 自動での点群分類機能（オートフィルタリング）



■ 自動での点群分類機能（オートフィルタリング）

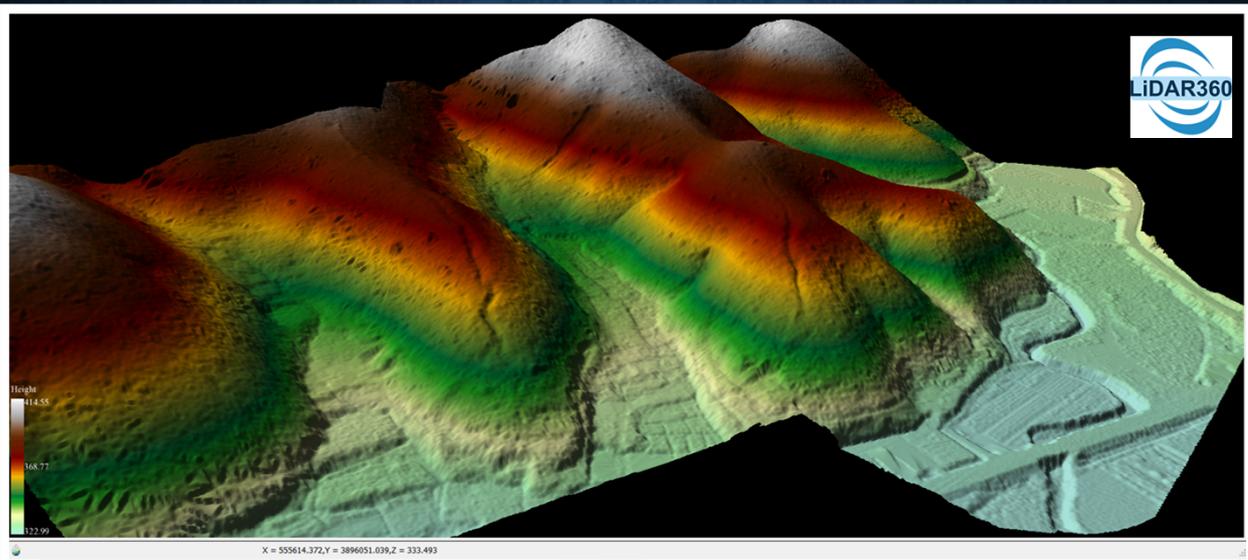


■ 手動での点群分類機能（マニュアルフィルタリング）

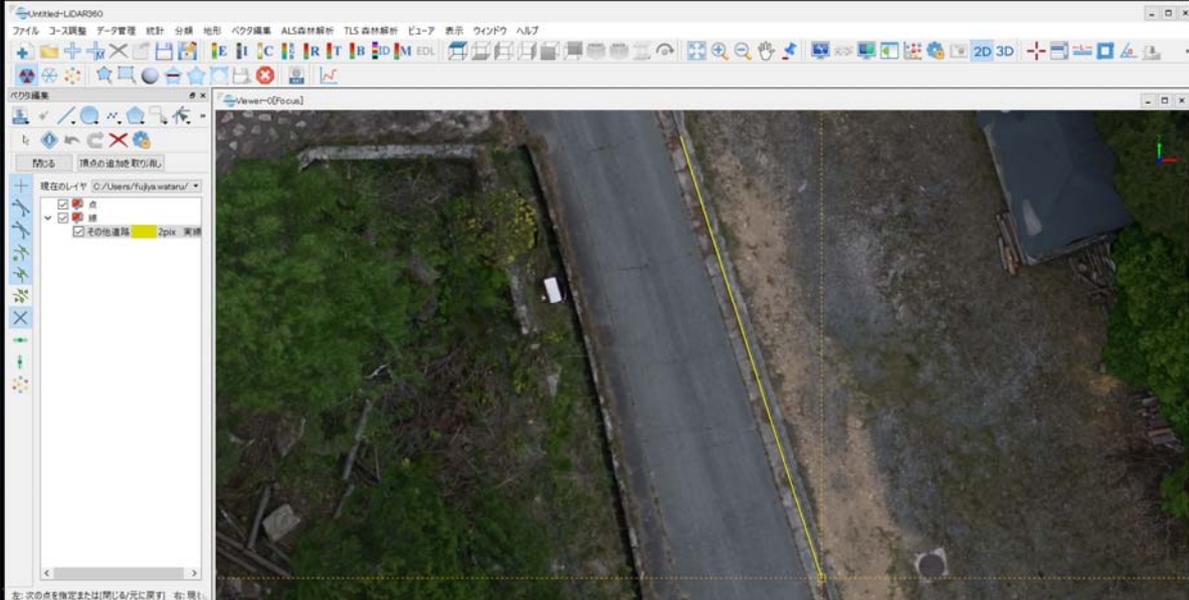


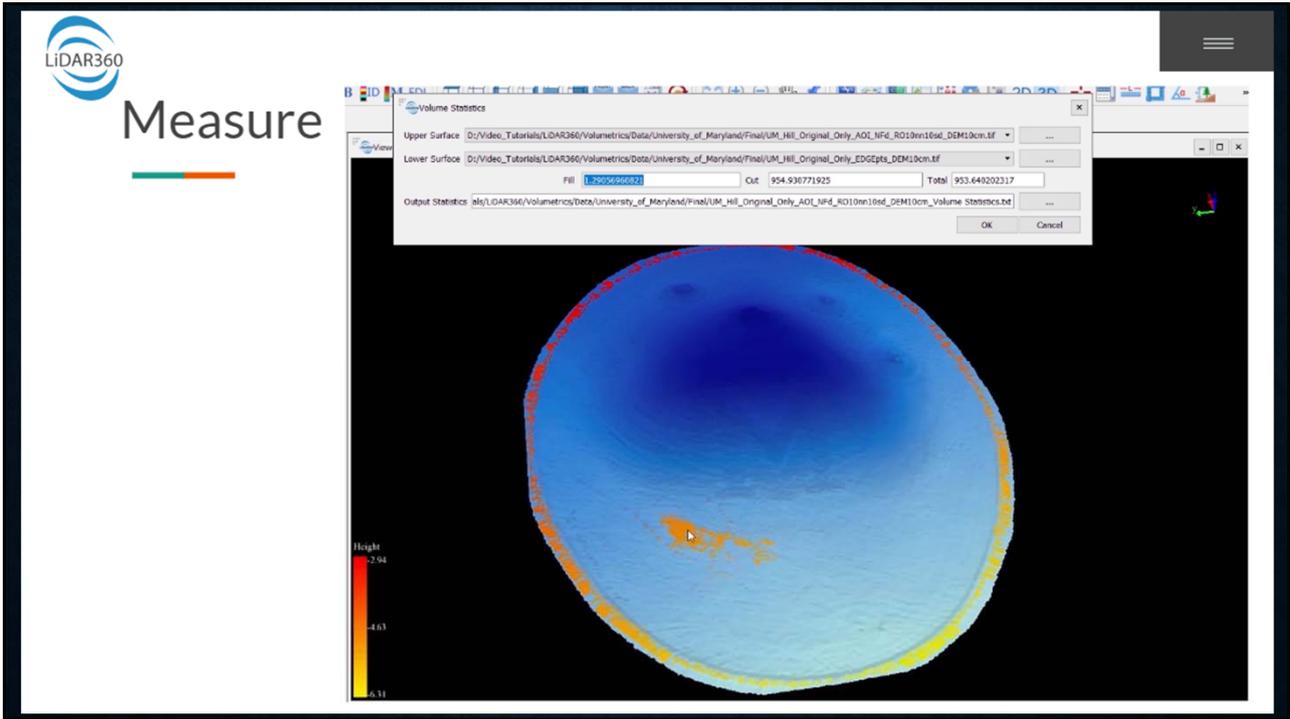
15

■ 地形モデルの作成（TIN,DEM,DSM）

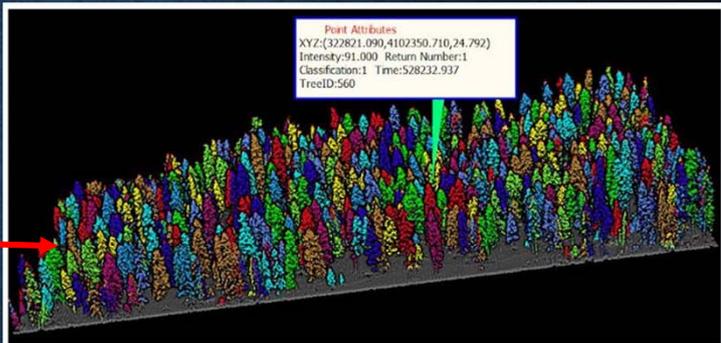
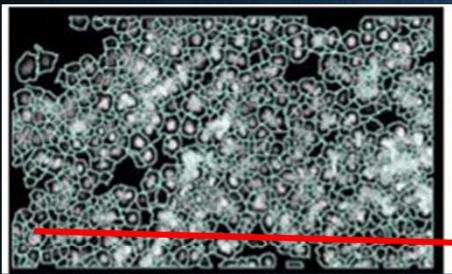


■ ベクタ編集機能（ライン編集・オルソトレース）





■ 森林調査 (UAVレーザによる調査)



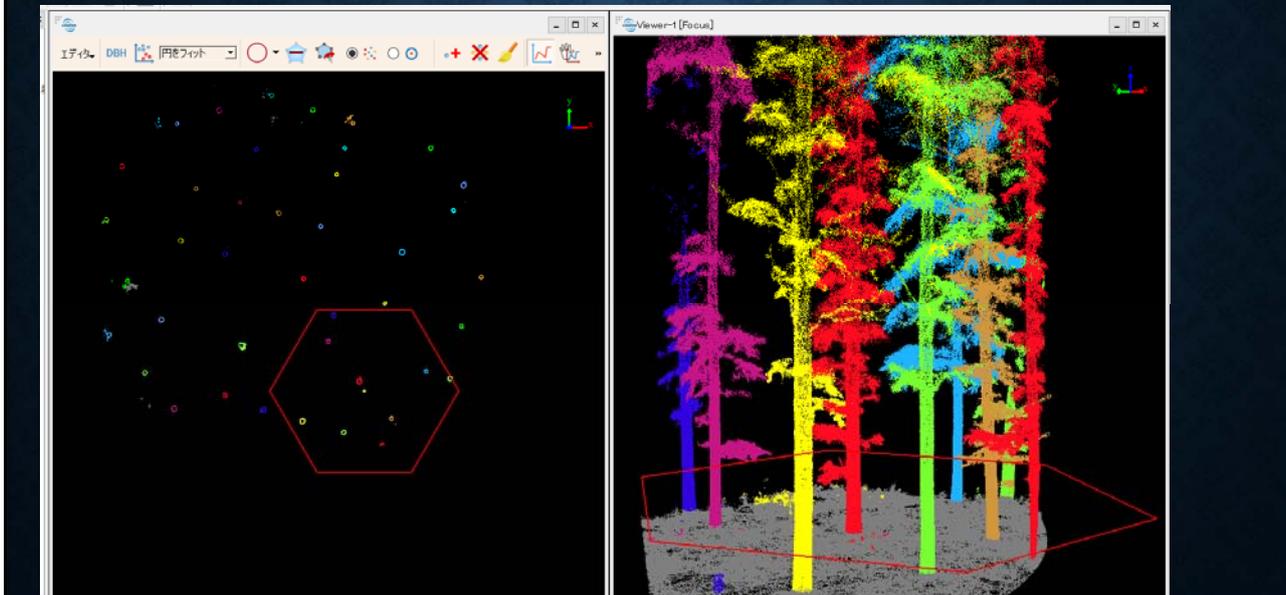
■ 樹木の解析

- 樹木位置(X,Y)
- 樹木高
- 直径
- 面積

C:\Users\YanJun\Desktop\SampleData\ALSData_Normalization_Point Cloud Segmentation.csv

TreeID	TreeLocationX	TreeLocationY	TreeHeight	CrownDiameter	CrownArea
1	322727.730	4102365.200	56.723	12.594	124.563
2	322710.740	4102389.550	53.302	11.361	101.382
3	322743.640	4102356.160	49.587	6.260	30.781
4	322724.360	4102339.500	49.564	14.265	159.822
5	322712.420	4102265.580	47.735	13.953	152.914

■ 森林調査（地上型スキャナによる調査）



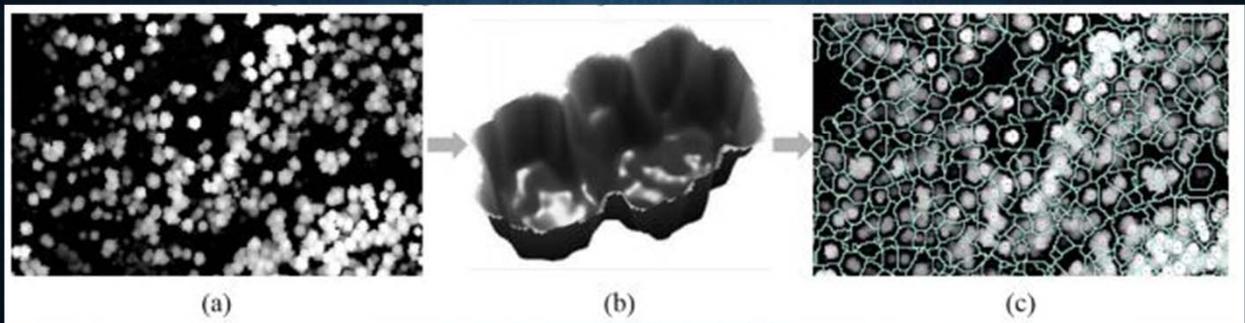
■ 森林調査（地上型スキャナによる調査）



■ 樹木高の計測



■ 樹木の分割（単木抽出）



Canopy Height Model (CHM) Segmentation Algorithm



胸高直径(DBH)の自動算出

The diagram illustrates the automatic calculation of Diameter at Breast Height (DBH). It shows a point cloud of a tree trunk with a red circle representing the DBH measurement and a vertical green line representing the height. A larger point cloud shows several trees with their DBH values and heights labeled: 24 (H: 3190), 61 (H: 6850), 57 (H: 7130), 56 (H: 6420), 23 (H: 9410), 33 (H: 1710), and 70 (H: 6020).

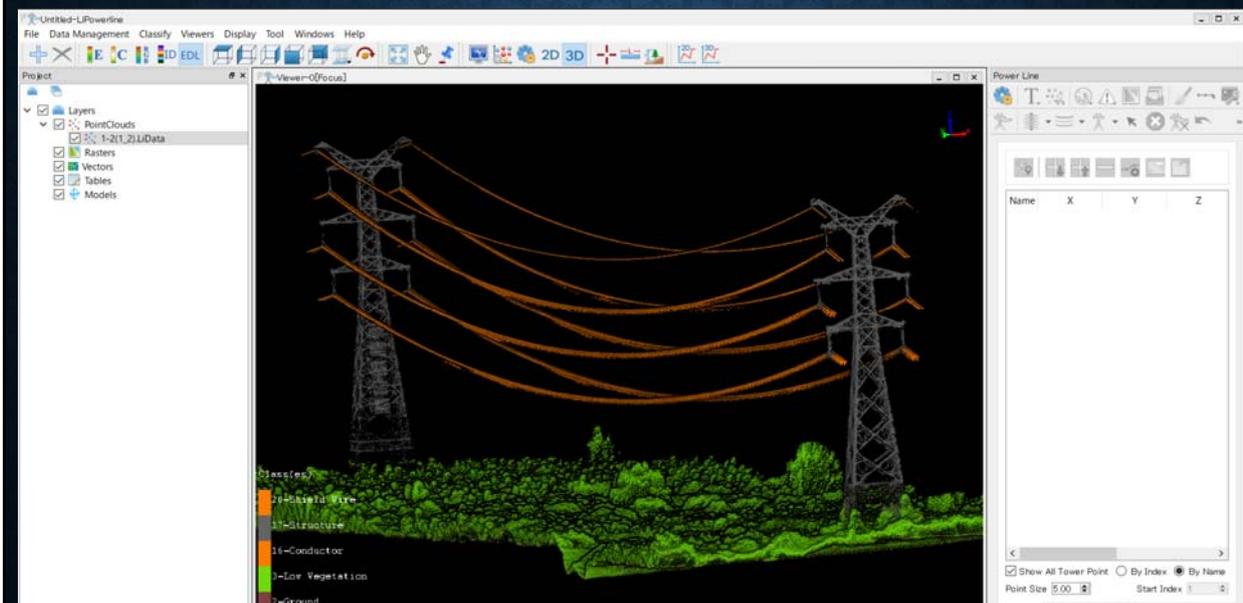
■ 樹木の維持・管理

The image shows two views of a forest. On the left is a photograph of a forest with a log on the ground. On the right is a 3D point cloud of the same forest, color-coded by height, with an arrow pointing from the photograph to the point cloud.

■ 電線・鉄塔管理



■ 離隔調査(静止時・気象条件・成長時)



■ 報告用レポート作成

Report:Real-Time Safety Risk Assessment

Assessor Company:
Report Date:2018/3/22

Table 2. 19-20 (wagneria19_wagneria20) Danger Objects

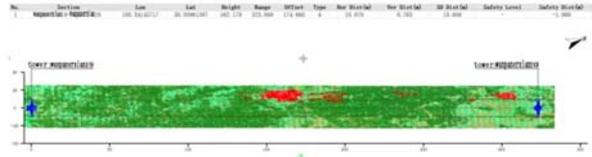


Figure 3. 19-20(wagneria19_wagneria20) Top View.

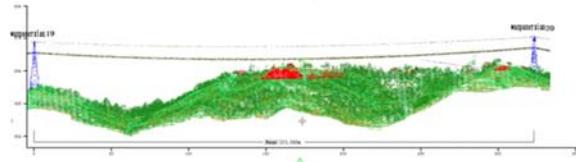


Figure 4. 19-20(wagneria19_wagneria20) Side View.

2. Danger Objects Table

No.	Section	Lon	Lat	Height	Range	Offset	Type	Min. Size(M)	Max. Size(M)	Min. Size(M)	Max. Size(M)	Safety Level	Safety Size(M)
1	wagneria19_wagneria19	146.2442722	36.5919417	484.392	425.156	22.462	14	14.273	9.216	14.961	14.961	-	-1.000
2	wagneria19_wagneria19	146.2442722	36.5919417	482.179	425.156	174.469	4	14.273	9.216	14.961	14.961	-	-1.000
3	wagneria19_wagneria19	146.2427614	36.5919417	446.439	485.218	47.219	4	14.273	9.216	14.961	14.961	-	-1.000
4	wagneria19_wagneria19	146.2427614	36.5919417	476.122	429.466	106.274	4	14.273	9.216	14.961	14.961	-	-1.000
5	wagneria19_wagneria19	146.2442722	36.5919417	485.399	447.819	444.237	4	14.273	9.216	14.961	14.961	-	-1.000

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GreenValley International
Map the World in 3D

The banner features a blue world map in the background. A helicopter is shown flying over a 3D terrain scan that is color-coded by elevation (green for low, yellow for medium, red for high). The text 'LiDAR360' is prominently displayed in the center. At the bottom, the GreenValley International logo and tagline 'Map the World in 3D' are visible.