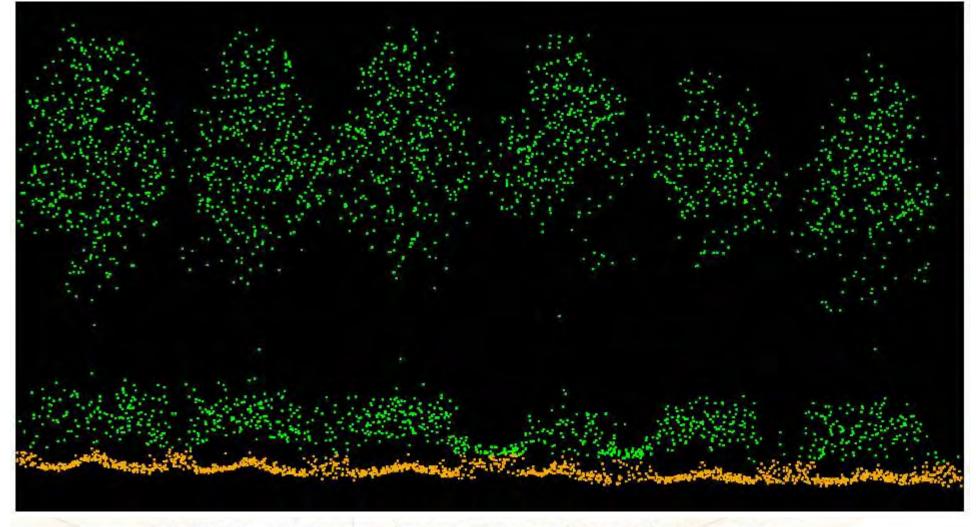


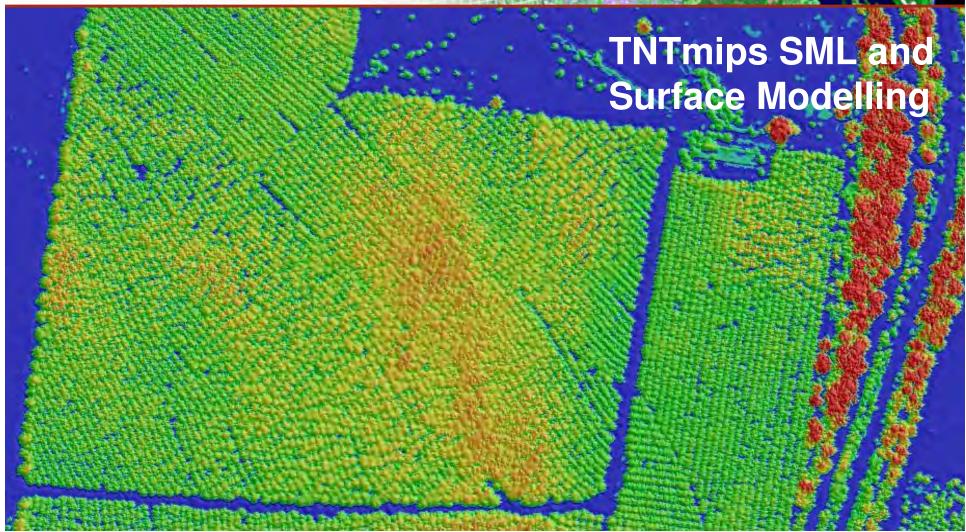


TNTmips Point Profile Tool





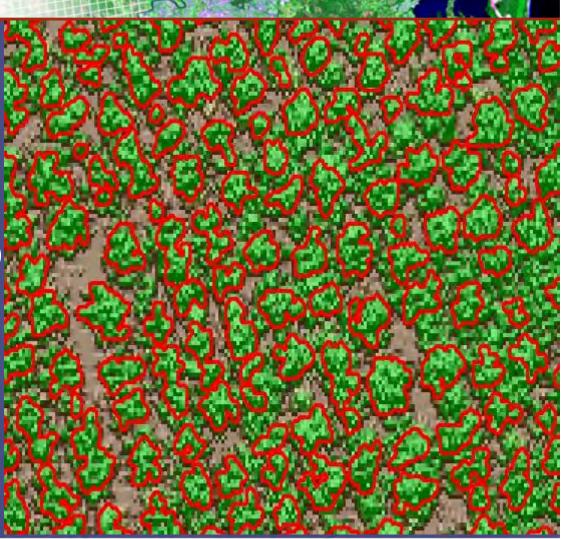
Canopy Height Model (metres above ground)





Tree Crown Polygons

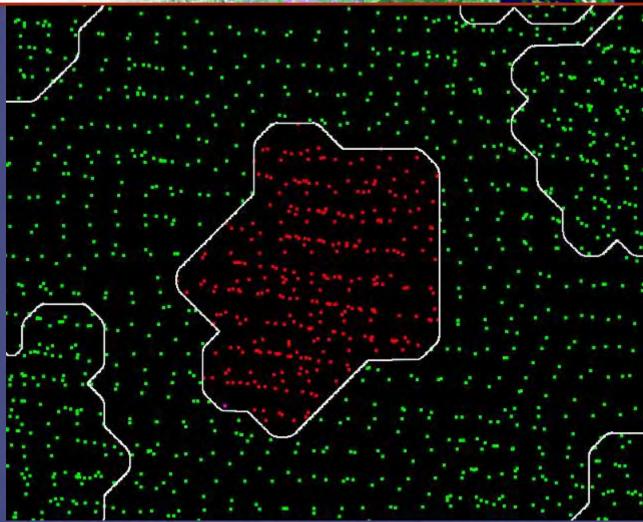
- Vectorise DCM
- Filter to remove
 - Island Polygons
 - Small polygons
- Assign unique tree ID





Tree Crown **Statistics**

- **Import LiDAR points** to TNTmips Vector
- **Transfer tree polygon** ID to LiDAR points.
- **Calculate tree crown** statistics from LiDAR.



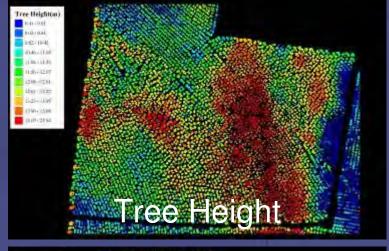


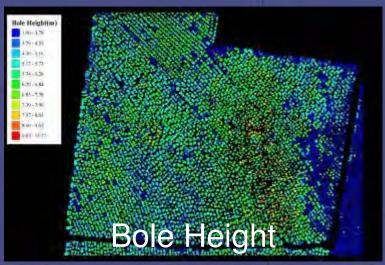
Tree Crown Statistics

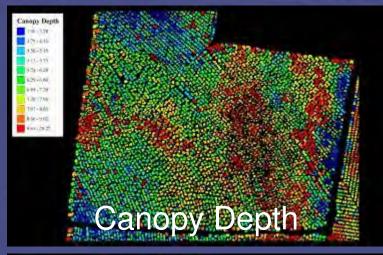
TreeID	Min	Max	MinNonGrd	TreeHeight	NumPoints	GrdCount	NONGrdCoun	CrownDensity	AvGrdEL	AVNONGrdEL	SDevNONGrd	CanopyDepth	BoleHeight
12645	466.80	475,63	474,02	8.83	18	12	6	0.33	466,92	474.99	0.65	1.61	7.2
11426	465.50	475.35	473.73	9.85	24	11	13	0.54	465.63	474.70	0.57	1.62	8.2
6544	475.77	483,35	481.72	7,58	17		9	0.53	475.90	482,50	0.53	1.63	5.9
3767	481.55	491.25	489.61	9.70	15	6	9	0.60	481.63	490.61	0.53	1.64	8.0
12784	461.00	474.50	The second second		19		8	0.42	464.15	470.36	0.58	1.64	5.7
15644	4 1	ree Crown	s / Polygoni	atab 🐷	■ × 80	36	42	0.53	455.65	462.94	1.05	1.64	6.5
11210	4	le Edit Re			16	9	7	0.44	468.36	477,22	0,60	1.65	8.0
13007	4 —		-	Hann A wa	21	12	9	0.43	461.70	469.93	0.49	1.65	7.2
547	4 🖰		在在野野		21	11	10	0.48	470.37	481.45	0.51	1.67	10.4
6587	4 Name	e Vai	lue		52	27	-25	0.48	474.86	482,02	0.52	1.67	6.5
12857	4 Tree	ID 12	645		X 23	11	12	0.52	463.03	467,89	0.45	1.67	3.9
13018	4 Min	46	6.80		17	8	9	0.53	461.26	467.92	0.57	1.67	5.70
12761	4 Max	47	5.63		20	10	10	0.50	464.06	469.97	0.70	1.68	5.13
2299	4 MinN	lonGrd 47	4.02		70	32	38	0.54	476.19	483.12	0.50	1,70	6.2
9026	4 Tree	Height 8.8	83		23	12	11	0.48	471.54	477.14	0.73	1.71	4.6
9101	4 Num	Points 18			28	13	15	0.54	470.63	478,49	0.57	1.73	7.10
3979	4 GrdC	ount 12			14	-7	7	0.50	480.69	490.54	0.66	1.75	9.0
11574	4 NON	GrdCount 6			20	13	7	0.35	466.59	473.75	0.59	1,75	6.4
14002	4 Crov	vnDensity 0.:	33		18	10	.8	0.44	459.14	467.81	0.57	1.75	4
3893	4 AvG	rdEL 46	6.92		19	9	10	0.53	482.19	487.38	0.52	1.76	4.19
11783	4 AVN	ONGrdEL 47	4.99		16	11	5	0.31	464.51	472.79	0.93	1.77	7.7
6281	4 SDev	NONGrd 0.0	65		16	7	9	0.56	479.98	486.14	0.80	1.79	5.4
12719	4 Cano	pyDepth 1.0	61		17	10	7	0.41	465.18	473.99	0.62	1.79	
16339	4 Bolel	Height 7.2	22		69	30	39	0.57	455.77	461.67	0.88	1.80	5.3
6193	4 strat	a1 0			28	11	17	0.61	478.98	485.12	0.59	1.82	
10767	4 strat	a2 0			19	6	13	0.68	459.84	464.99	0.71	1.84	4.5
15024	4 strat	a3 33			13	E	7	0.54	454.48	463.49	0.68	1.86	8.0
6225	4 strat	a4 0			36		20	0.56	479.48	486.23	0.66	1.87	5.70
7926	4				7 60	78	82	0.51	460.83	467.64	0.99	1.87	6.2
15217	4 Attached record 1 of 1 - 10728 of 13449 in table				22	13	9	0.41	453.84	461,35	0.64	1.88	6.3
16296		464.05	COLUMN TWO IS NOT THE OWNER.	0,25	59	27	32	0.54	455.88	463.32	0,62	1.88	
9019	470.97	478.14	476.25	7.17	20	12	8	0.40	471.11	477.65	0.61	1.89	5.2

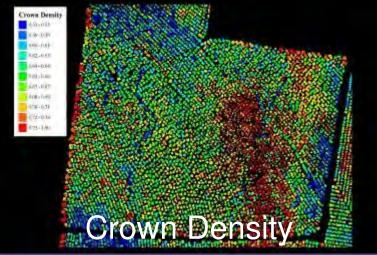


ndividual Tree **Metrics**



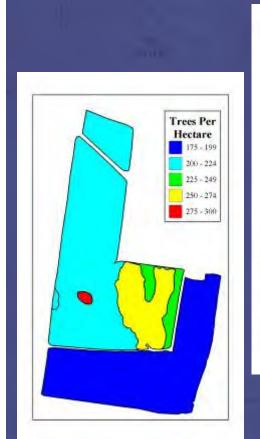


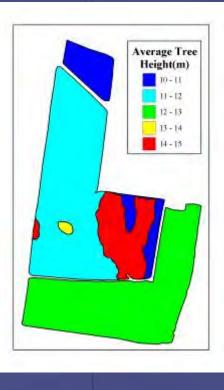


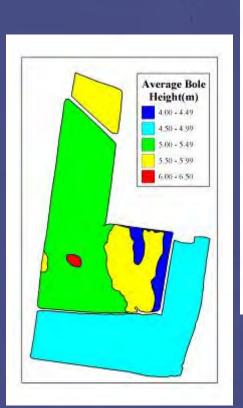


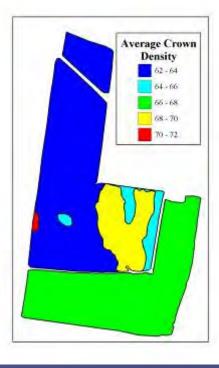


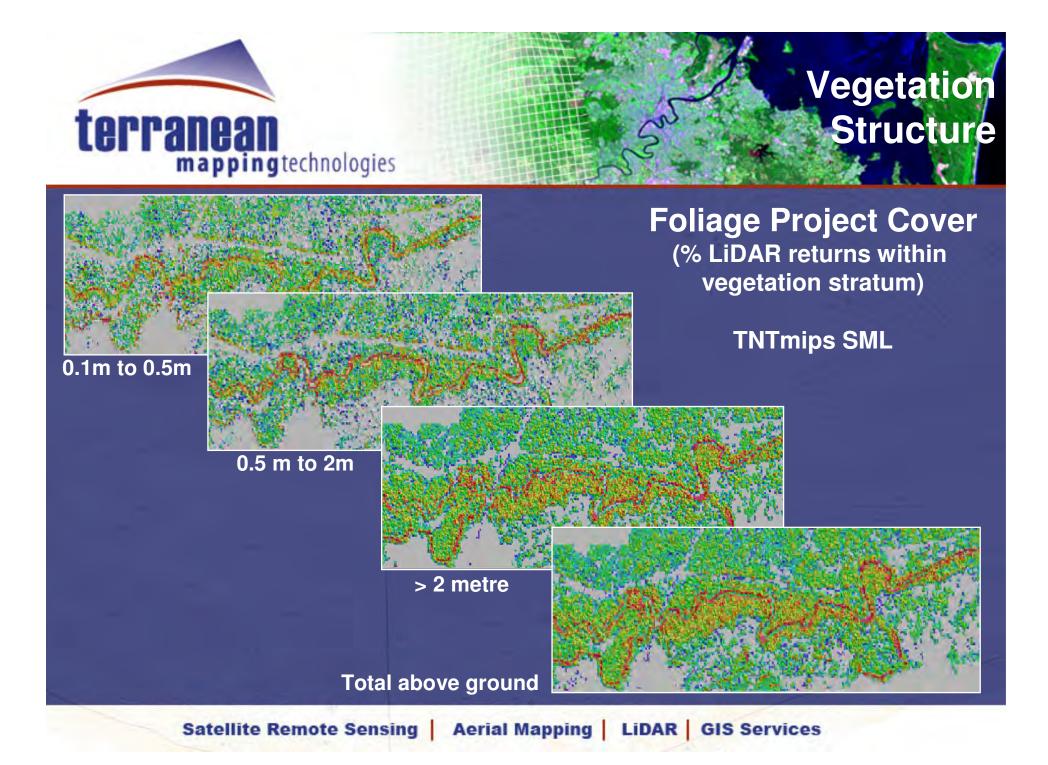
ree Stand Statistics





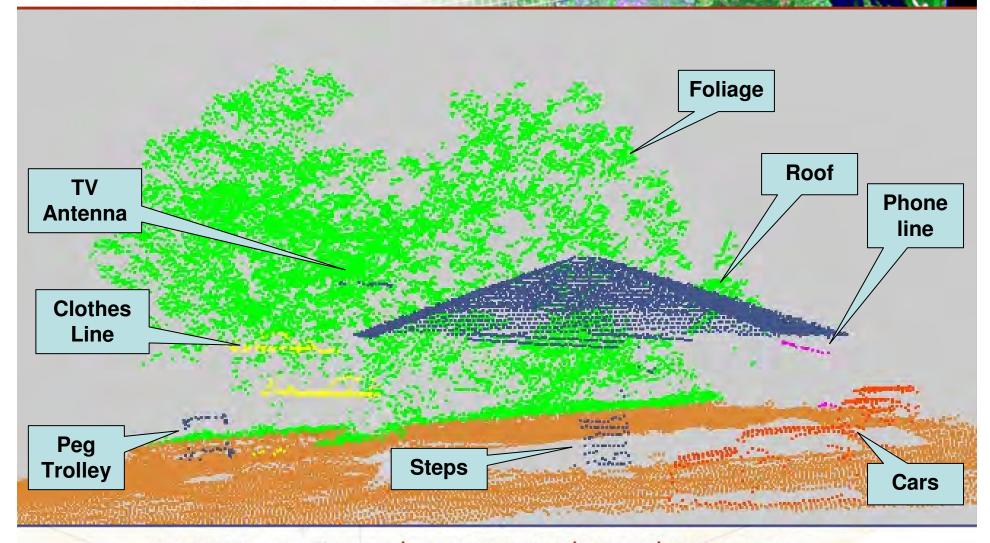






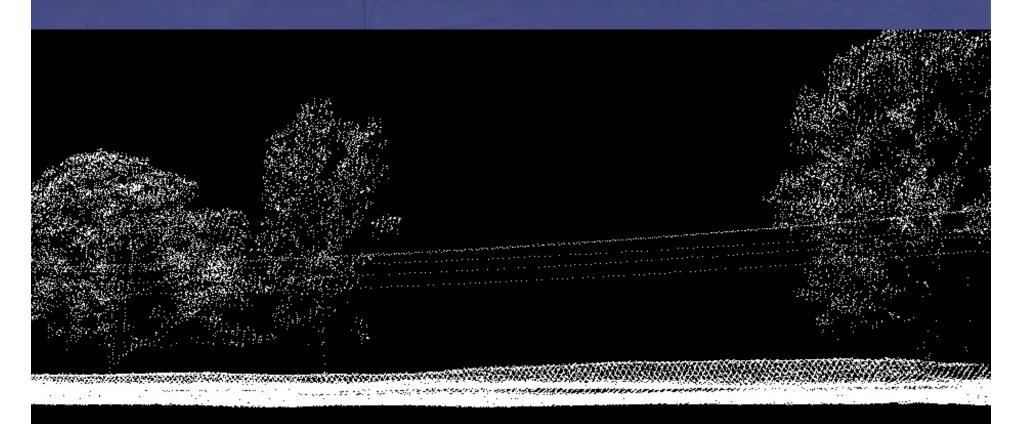


TNTmips Interactive Lib Classification



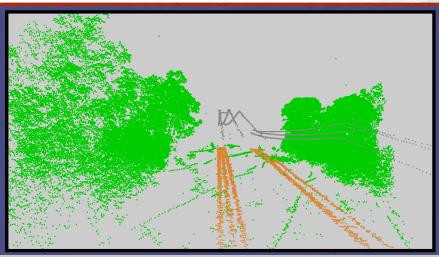








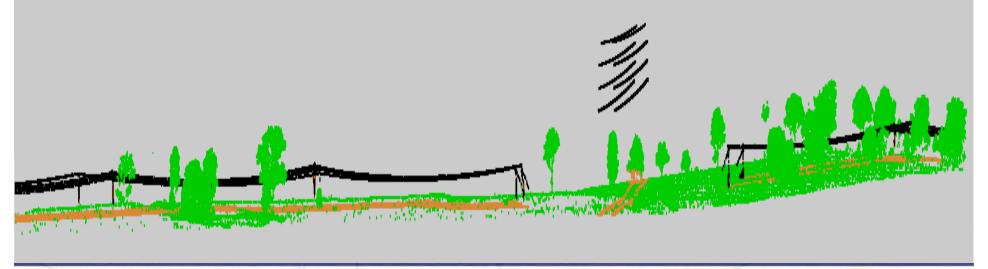
Automatic Power Line Classification



TNTmips SML Power line Classifier

if ((p.Return_Number == 1) and ((p.Z - DEM[line,col]) > 5) and (Min_nonground_ht[line,col] > 3)) then p.Classification = powerline;

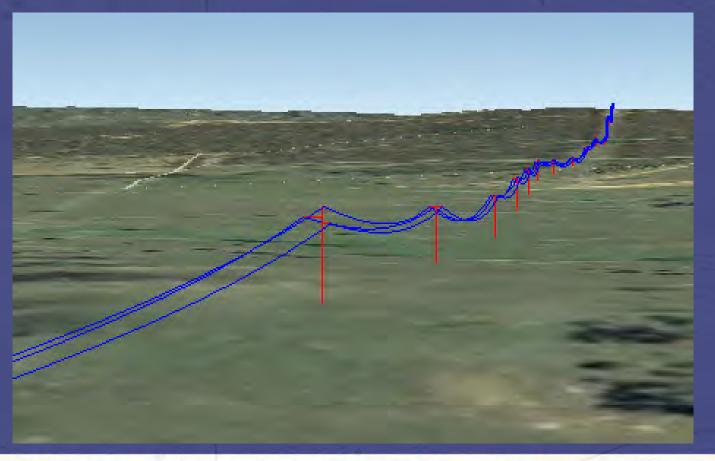
Where "p" is a LAS record.





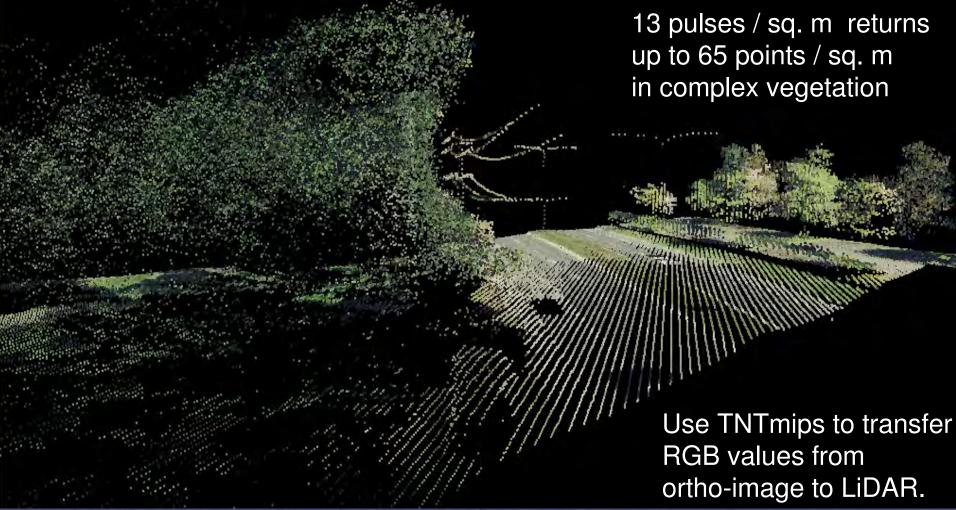
Power Line Mapping

TNTmips → PLS-CADD → GoogleEarth











DAR Filtering

Before Filtering: 2.6 M points / tile

After Filtering: 1.3 K points /tile

Reduce points where there is little change of slope.

