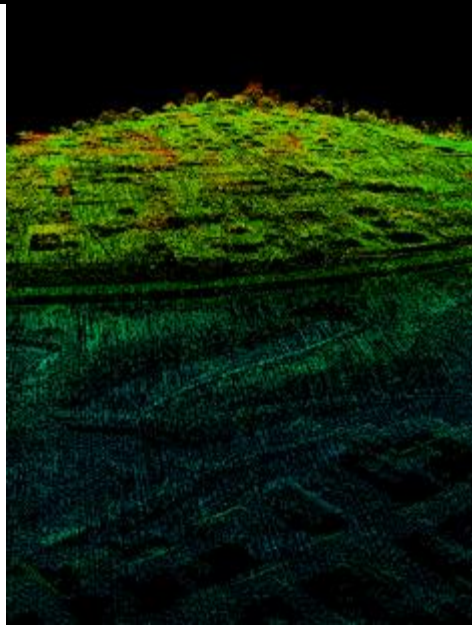




Dynamic Geospatial Exploitation for a Changing World

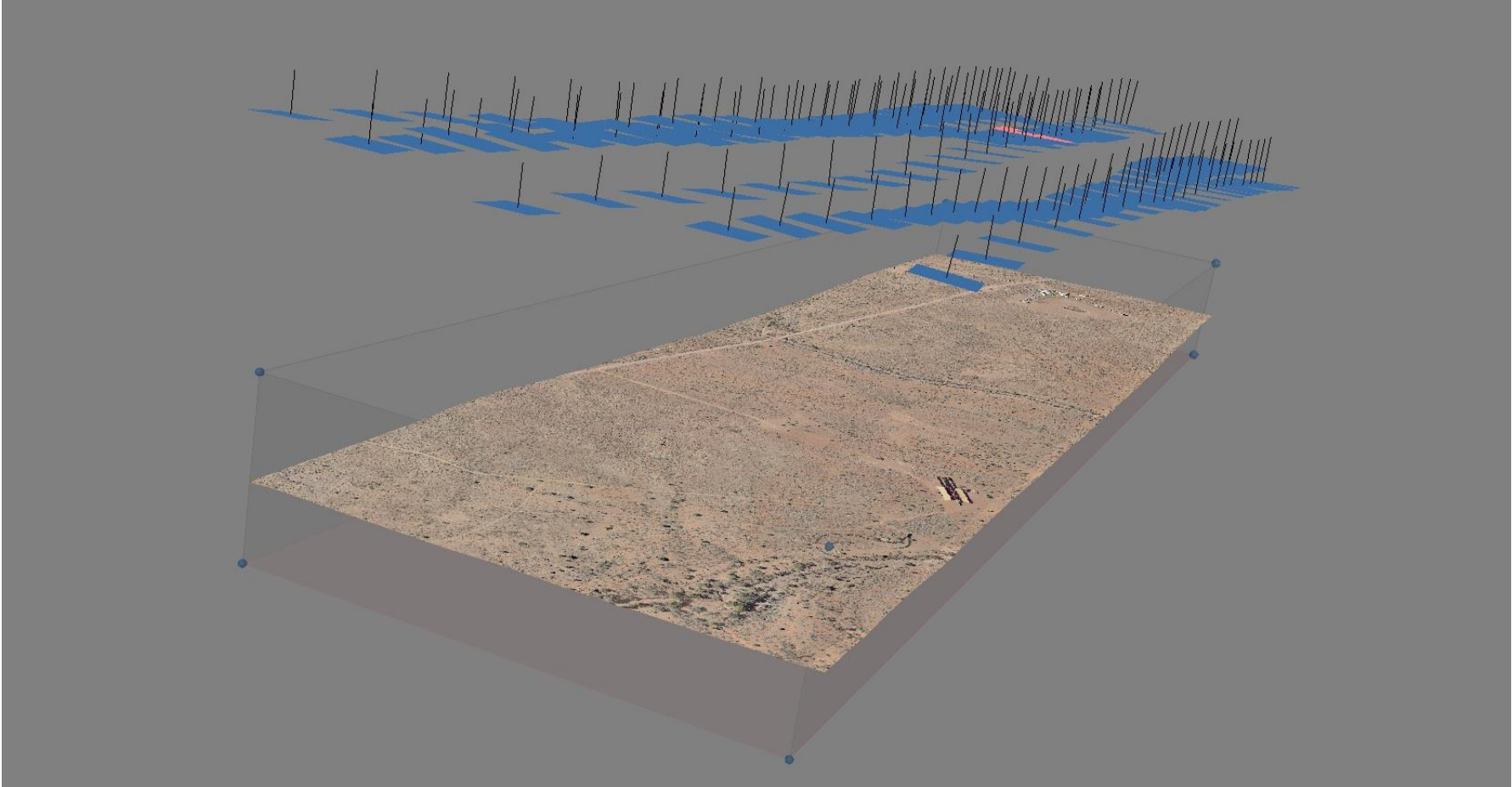


Company Overview



- Bushskies Aerial Photography cc. is a Namibian owned company.
- The members of the closed corporation are Chris Brown, Jaco van der Westhuizen, Johanco Steenkamp, Xander Schoeman and Ruan De Wet.
- We supply high resolution aerial images, highly accurate geo-spatial data (coordinates, elevation, etc.), orthomosaics, contour maps, digital elevation models, LiDAR, thermographic inspections, thermal maps, and more.
- To date we have completed more than 80 projects.
- Our aircraft a Cessna 182 and Jabiru J430 is stationed at Eros Airport keeping mobilization time and costs to a minimum.

Innovative – on-the-fly-processing

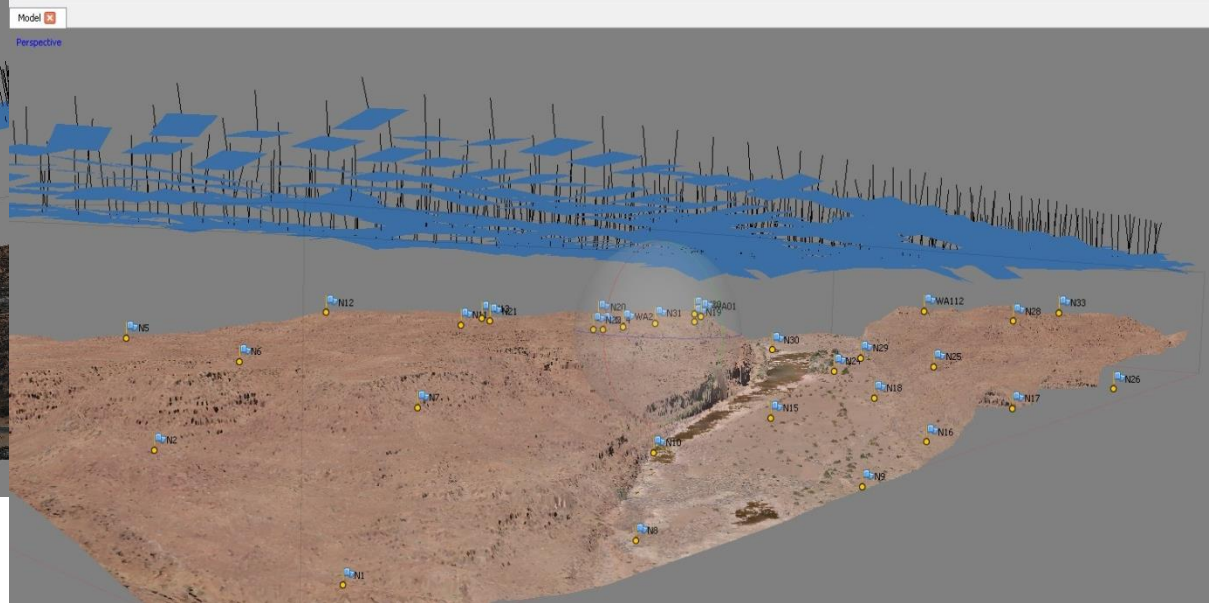
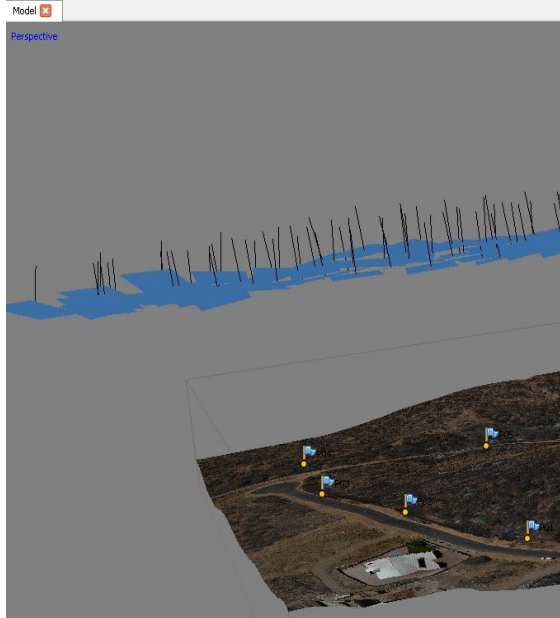


Innovative – X,Y,Z Data Accuracy



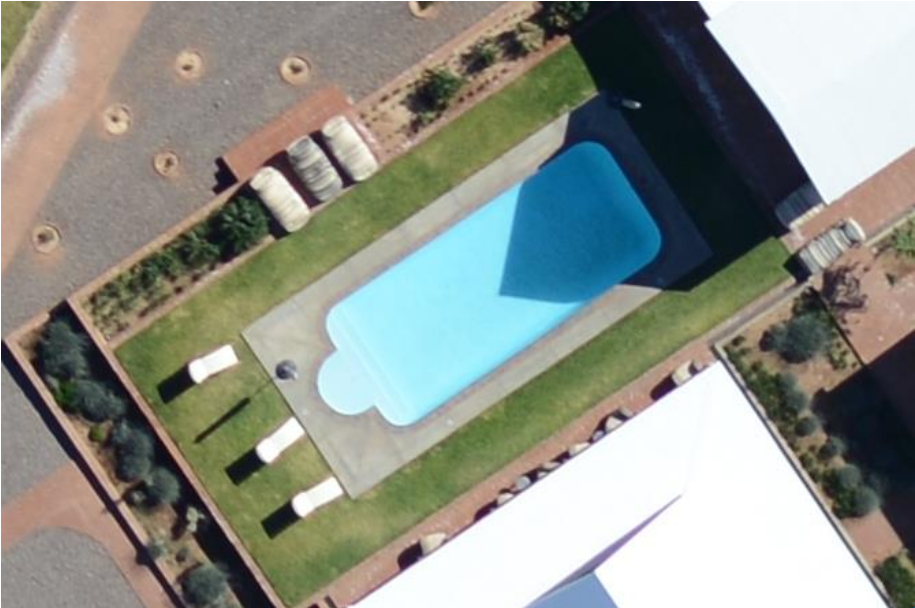
Markers	X err	Y err	Z err	Error (m)	Projections	Error
<input checked="" type="checkbox"/> P04	0.023997	0.006870	0.039803	0.046992	6	2
<input checked="" type="checkbox"/> P05	-0.009167	0.001133	-0.022673	0.024492	5	2
<input checked="" type="checkbox"/> P06	-0.006321	0.001938	0.019833	0.020905	6	2
<input checked="" type="checkbox"/> P07	0.005842	-0.009104	0.019655	0.022435	5	2
<input checked="" type="checkbox"/> P08	-0.008428	0.004951	0.019542	0.021851	6	2
<input checked="" type="checkbox"/> P09	0.004284	0.005920	-0.060052	0.060495	6	2
<input checked="" type="checkbox"/> P10	0.023835	-0.016139	0.052885	0.060212	4	2
Total Error	0.013911	0.006992	0.032701	0.036218		

Markers	X err	Y err	Z err	Error (m)	Projections	Error
<input checked="" type="checkbox"/> N6	0.036363	-0.014554	0.013355	0.041301	4	2
<input checked="" type="checkbox"/> N7	-0.002688	0.009555	-0.050394	0.051362	4	2
<input checked="" type="checkbox"/> N8	0.001519	-0.027114	-0.021414	0.034593	10	2
<input checked="" type="checkbox"/> N9	0.000772	-0.014943	0.060861	0.063280	8	2
<input checked="" type="checkbox"/> WA01	-0.003633	0.004445	0.003657	0.006806	7	2
<input checked="" type="checkbox"/> WA112	-0.002311	0.024673	-0.084237	0.087807	3	2
<input checked="" type="checkbox"/> WA2	-0.020761	0.002025	-0.087397	0.089852	3	2
Total Error	0.020416	0.023703	0.063005	0.070344		

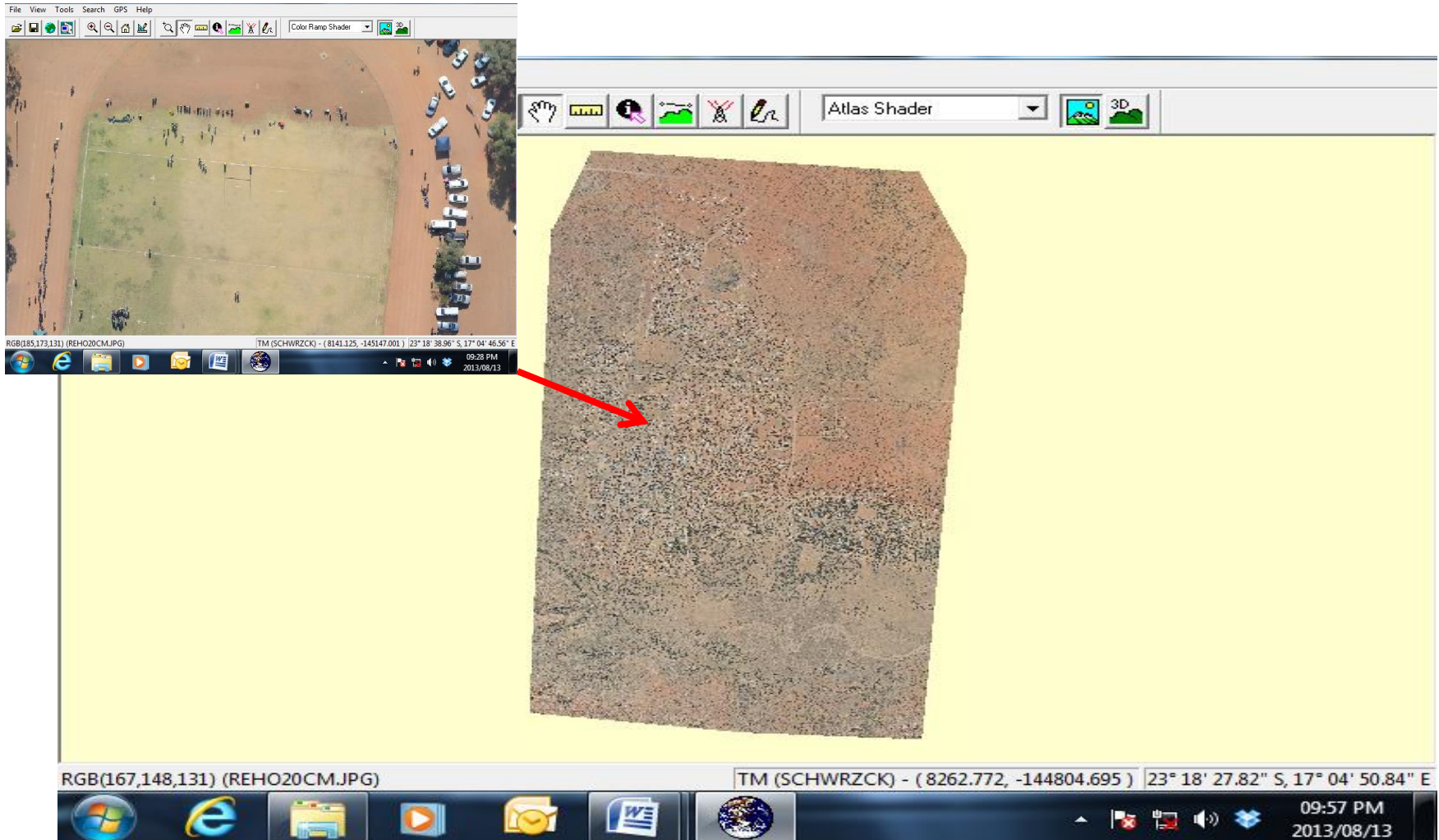


We have done thorough tests and have found in general X,Y =1*GSD and Z=2*GSD

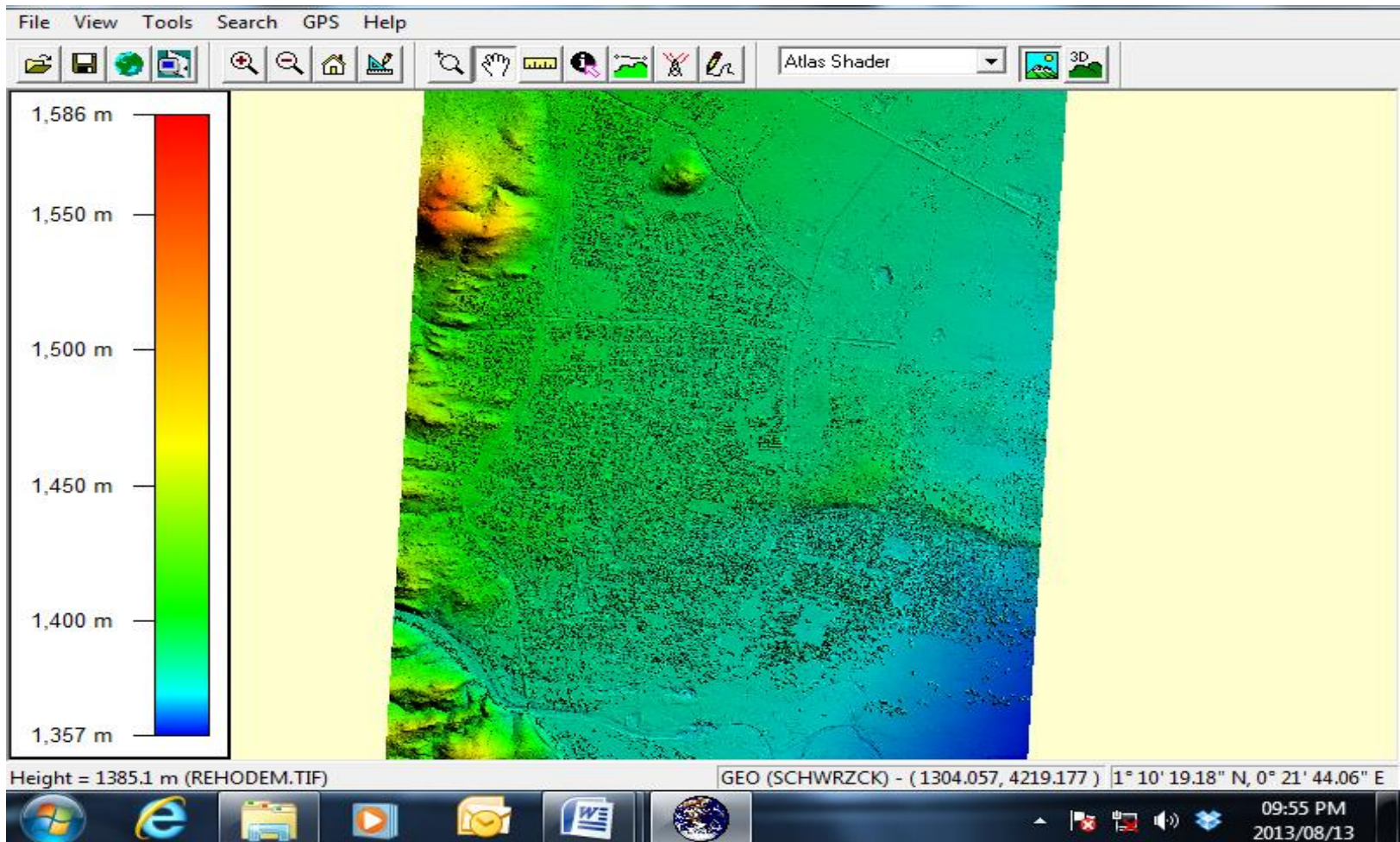
Innovative – High Resolution Images, 3 – 15cm GSD



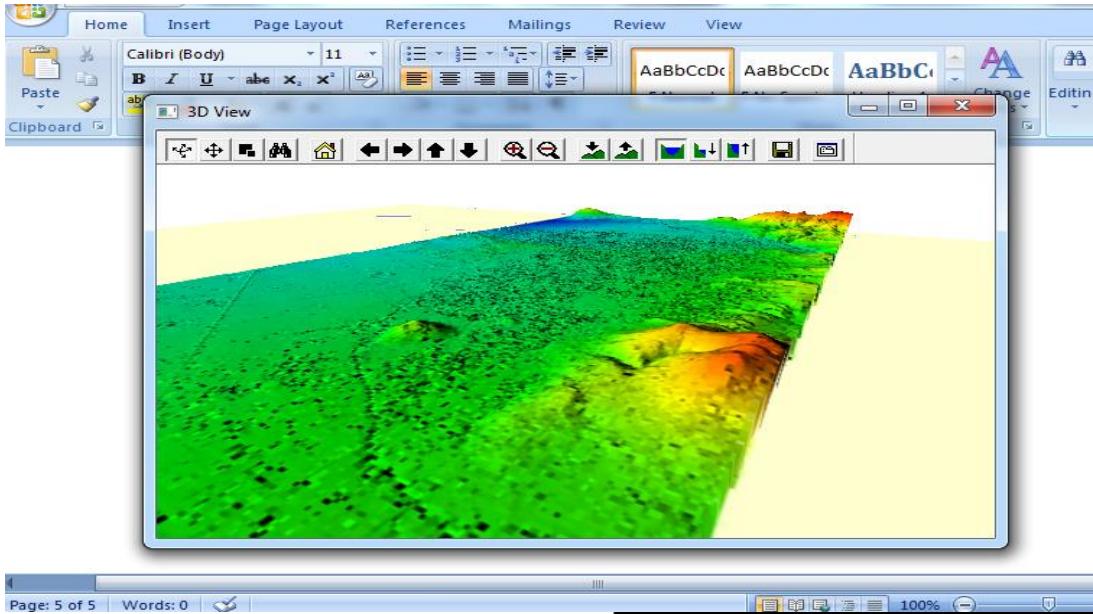
Innovative – Mosaic, Rehoboth Town 3500 Ha



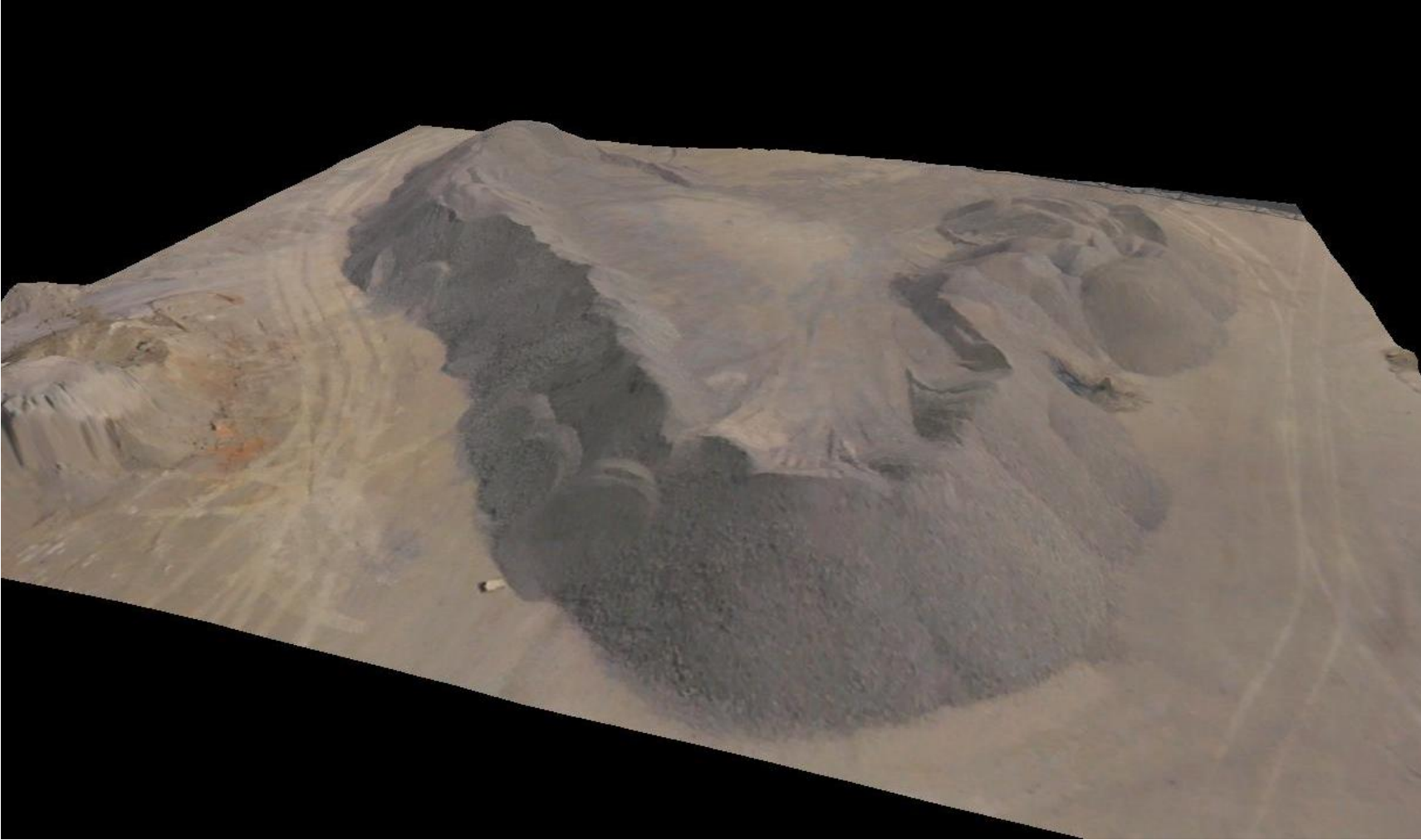
Innovative – DEM Example



Innovative – 3D Modeling



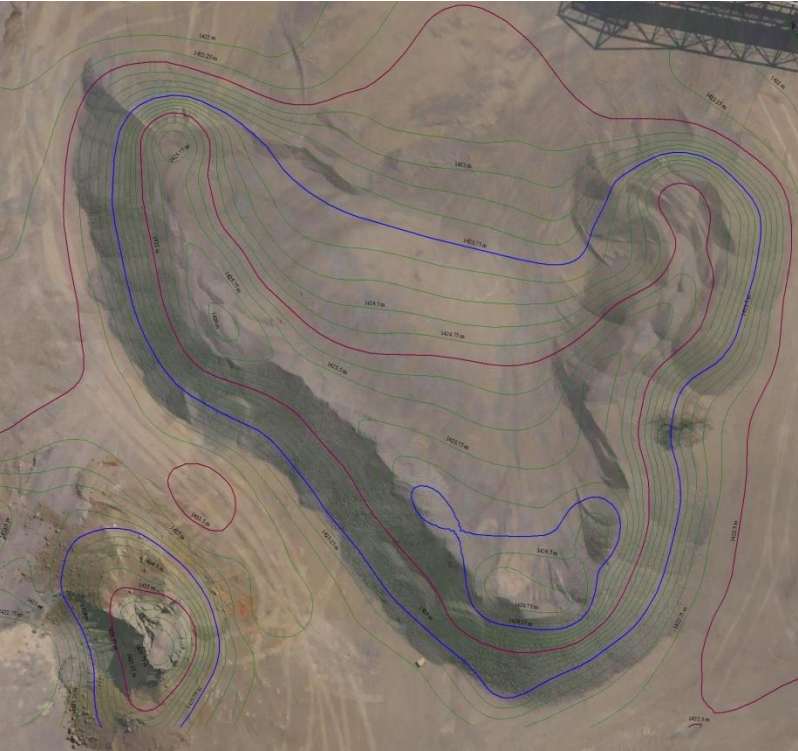
Innovative – 3D Model of Stockpile



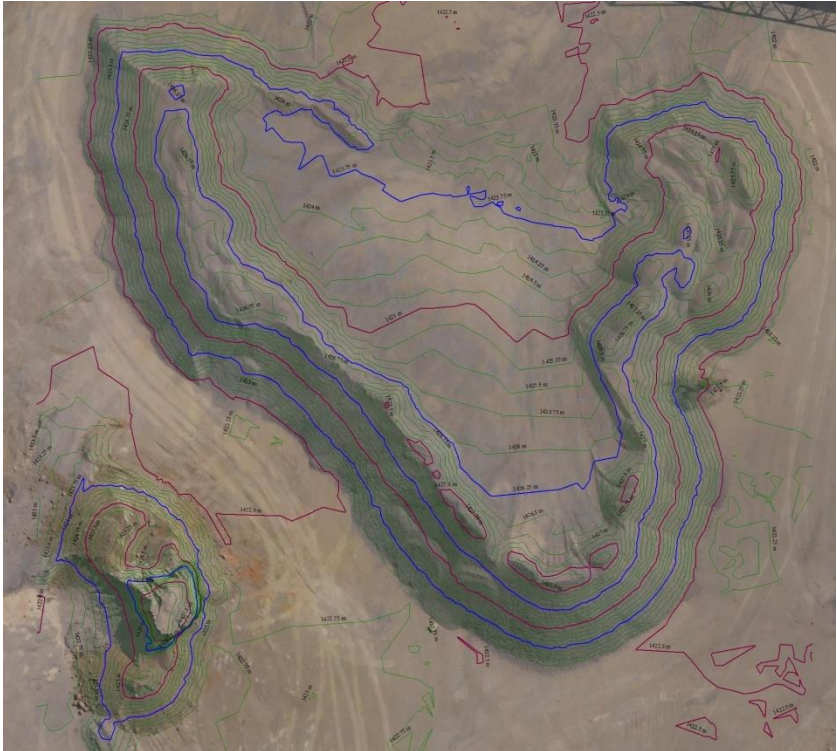
Innovative – Contour Mapping of Stockpile



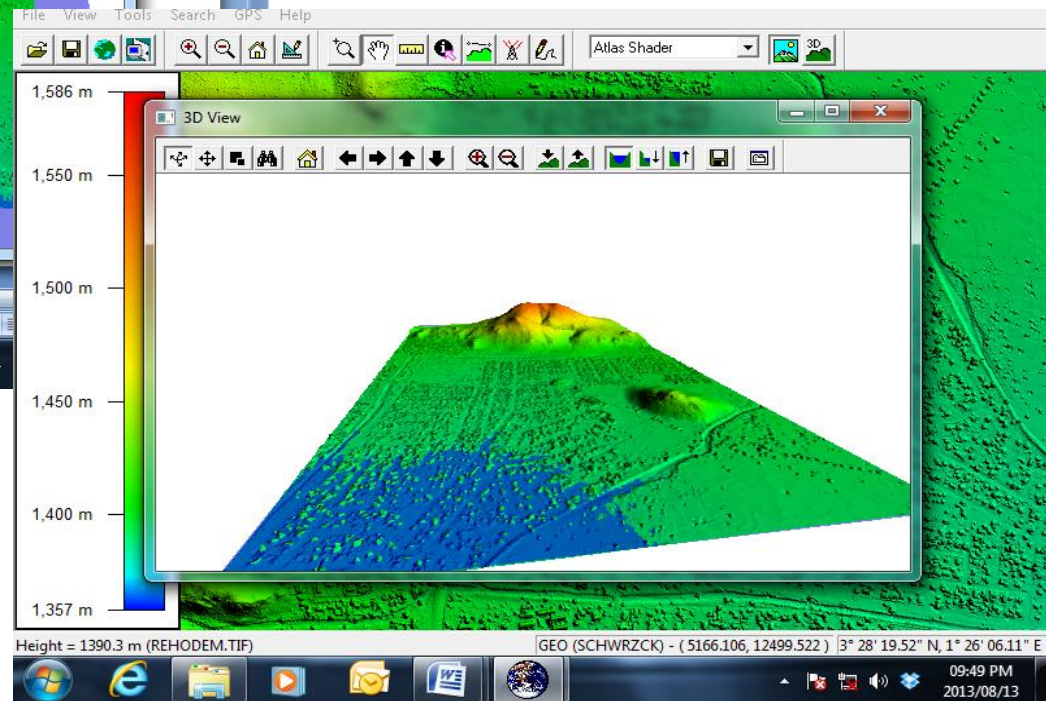
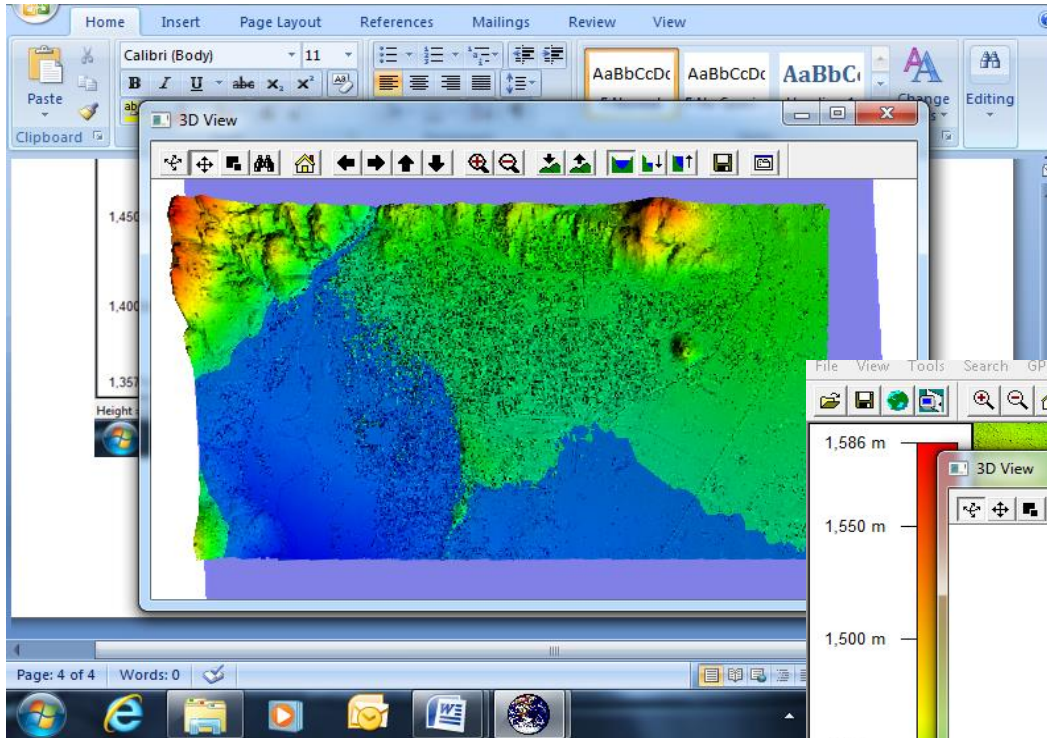
1m Sampling



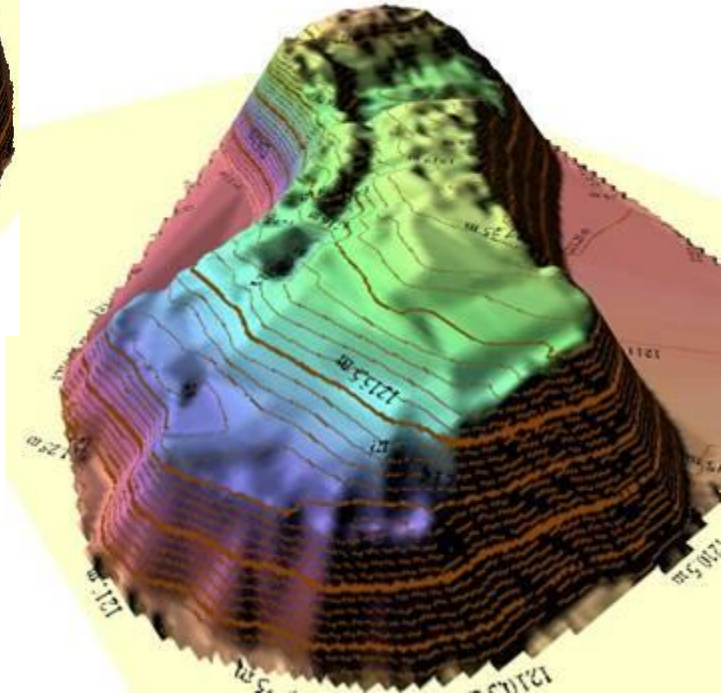
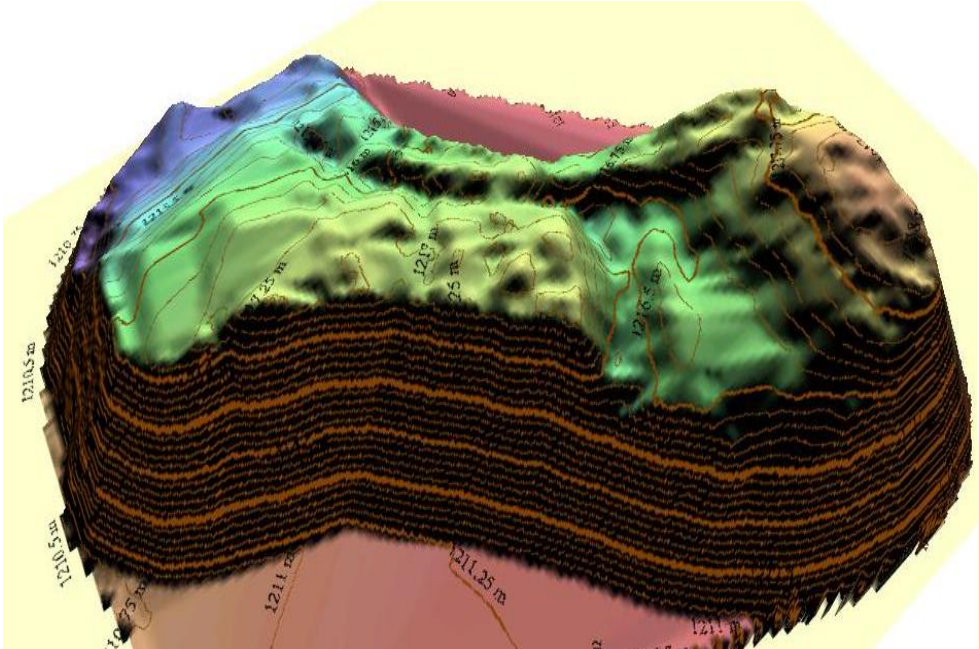
8cm Sampling



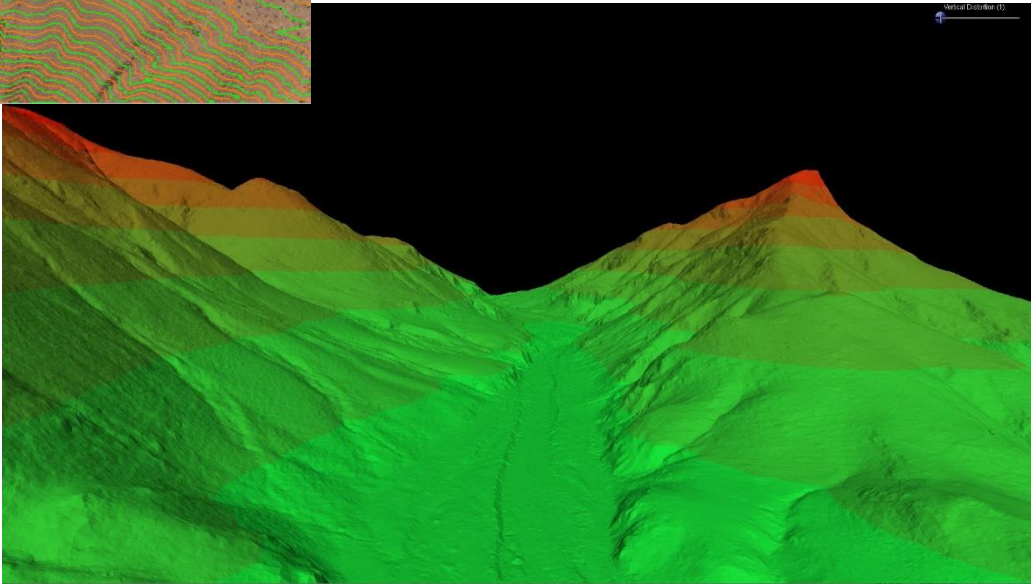
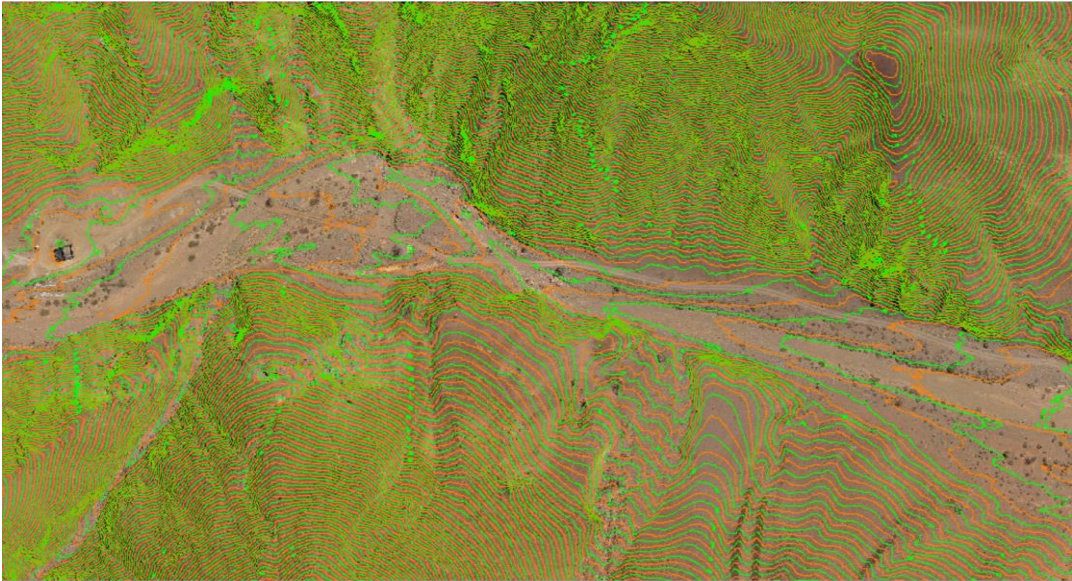
Innovative – Water level simulation and volume calculation



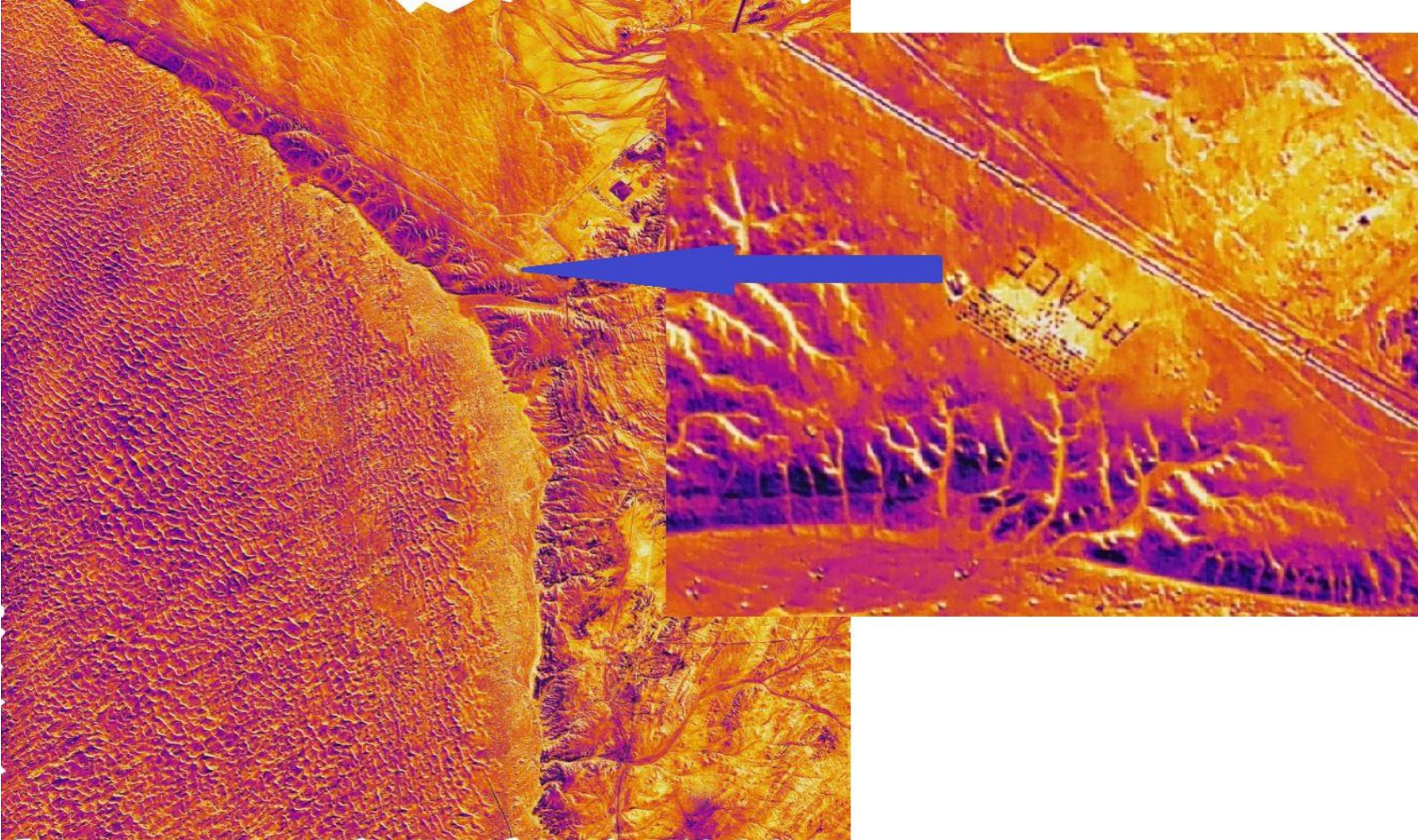
Innovative – Stockpile Volume Calculation



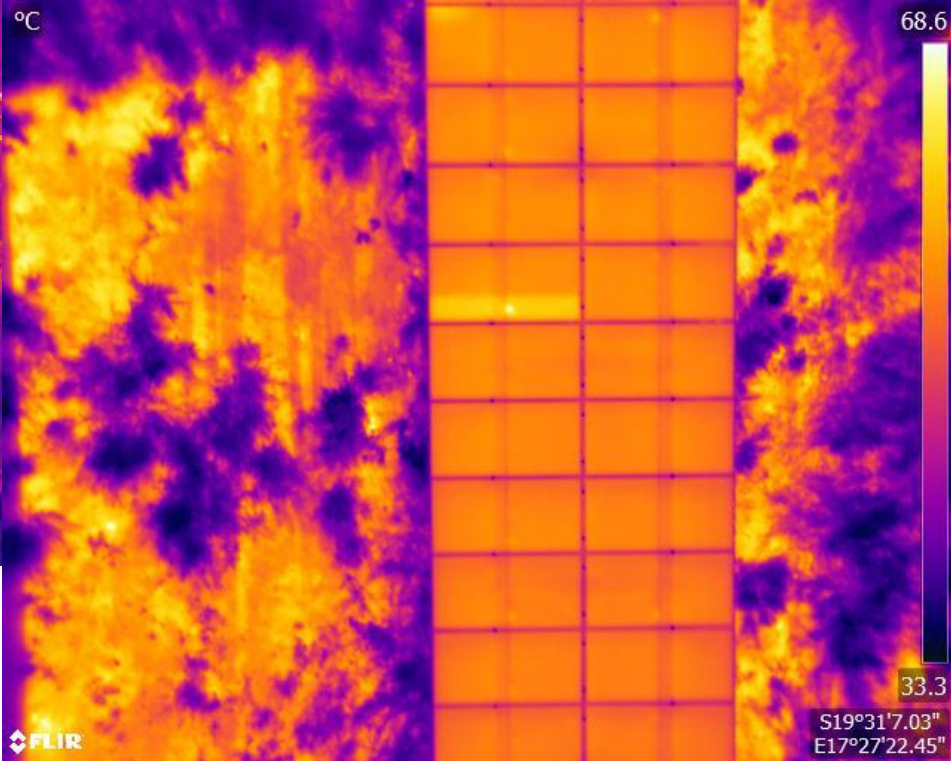
Innovative – LiDAR



Innovative – Thermal mapping



Innovative – Thermal inspection



Innovative – Distance and Area Calculation



File View Tools Search GPS Help

Atlas Shader 3D

Seg Len: 1.58 m, Seg Brg: 63.3°, Total Len: 284 m, Enclosed Area: 9887 sq m TM (SCHWZRZCK) - (9791.500, -145594.240) 23° 18' 53.46" S, 17° 05' 44.67" E

01:19 PM
2013/08/14

Innovative – Finding Encroachments



Innovative – Informal Housing on a Formal Erf Layout

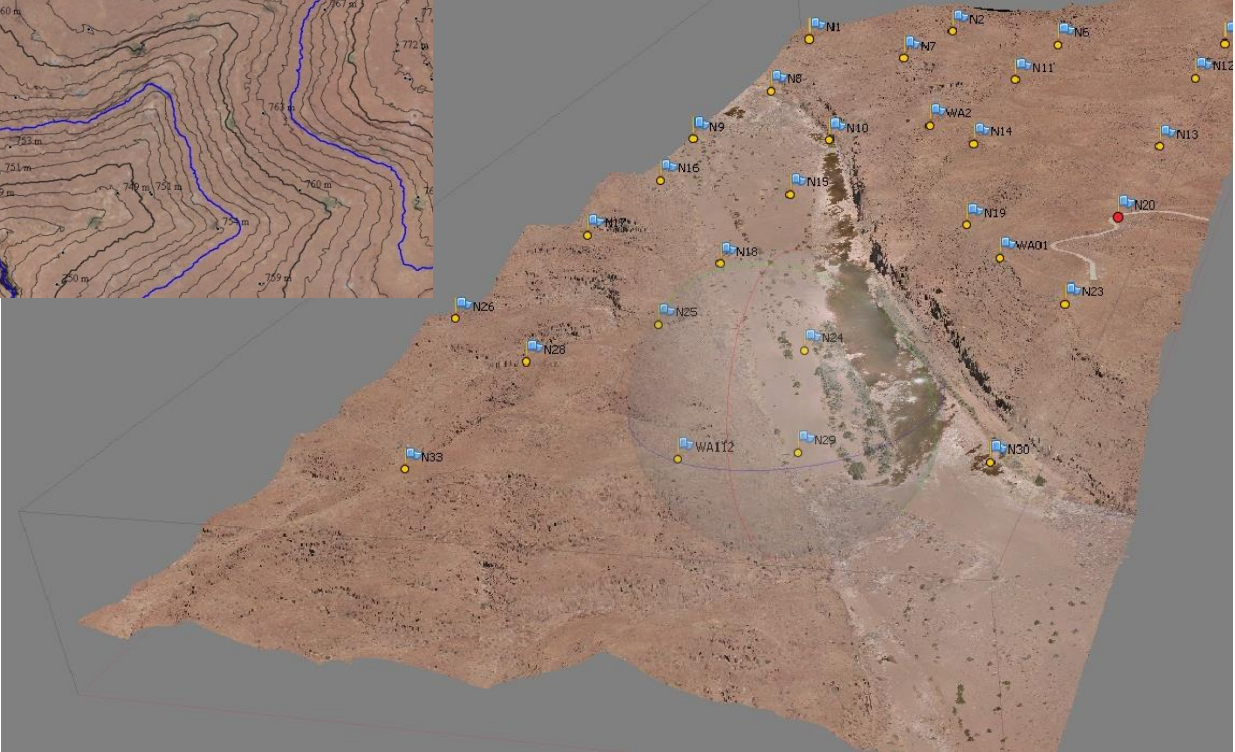
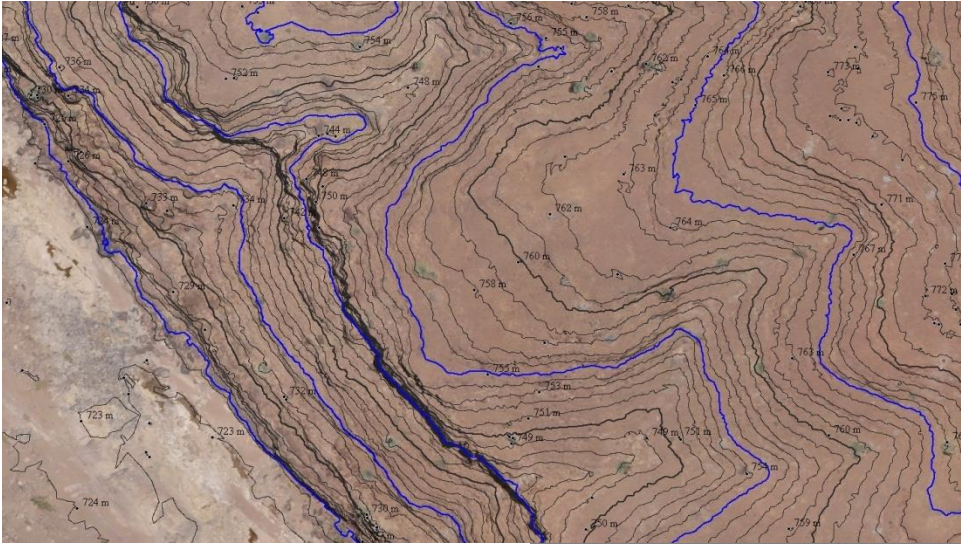


Innovative – Property Valuations by Area



A screenshot of a software application interface for aerial photography. The main window displays an aerial view of a residential area. A house is highlighted with a yellow border and a red hatched pattern. The number "192" is overlaid on the house. To the left, the text "37x 192x" is visible. To the right, the number "195" is visible. The software interface includes a menu bar (File, Edit, View, Tools, Analysis, Search, GPS, Help), a toolbar with various icons, and a status bar at the bottom. The status bar contains the following information: "Total Len: 71.949 m, Total Brg: 314° 58' 8.2", "Enclosed Area: 274.31 sq m" (circled in red), "RGB(185,181,170) (Reho20cm 1:277 TM (SCHWRZCK) - (8102.072, -145697.066) 23° 18' 56.7736" S, 17° 04' 45.1953" E". The Windows taskbar at the bottom shows the Start button and several application icons, including Internet Explorer, File Explorer, and Microsoft Word. The system clock shows "12:05 PM 2013/09/24".

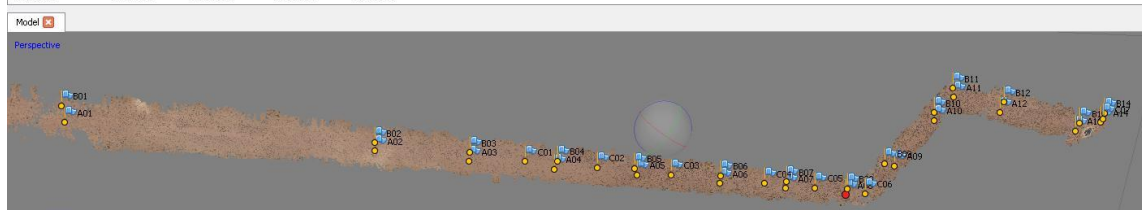
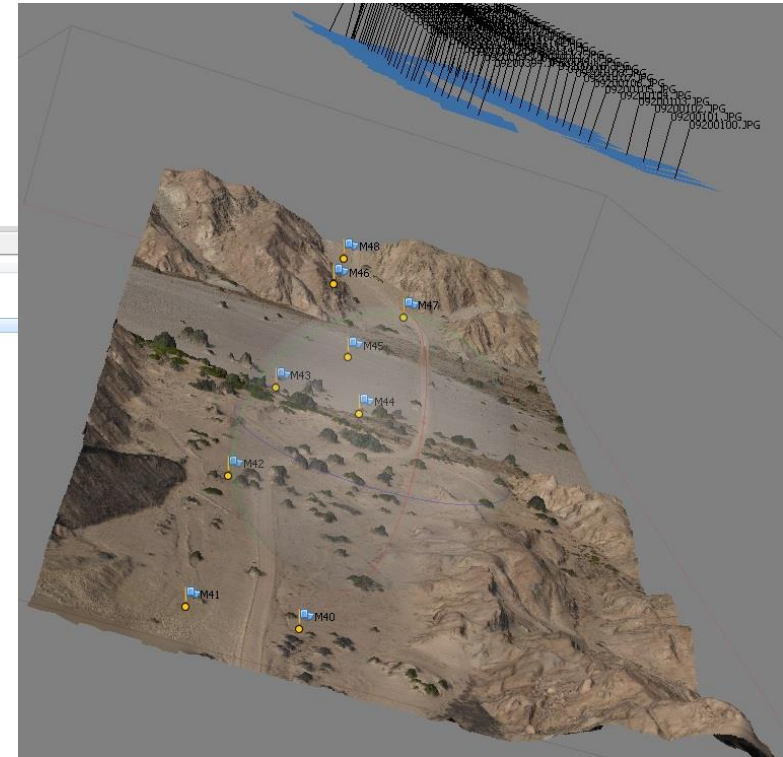
Completed Projects – Neckertal Dam



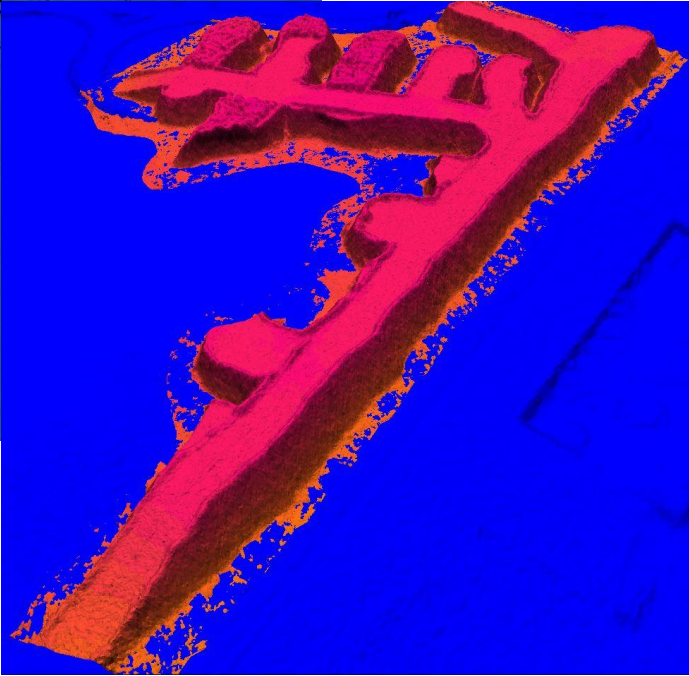
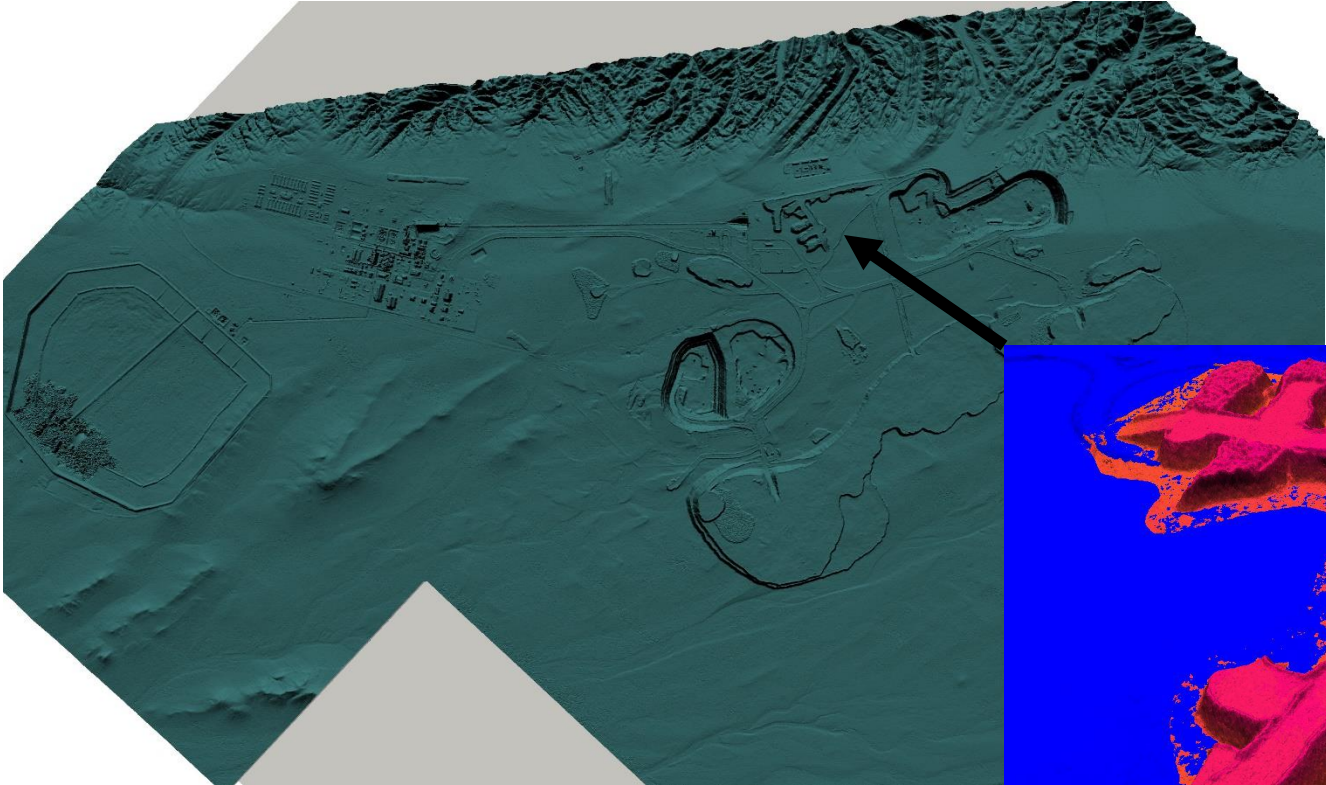
Completed Projects – Husab Mine Pipeline



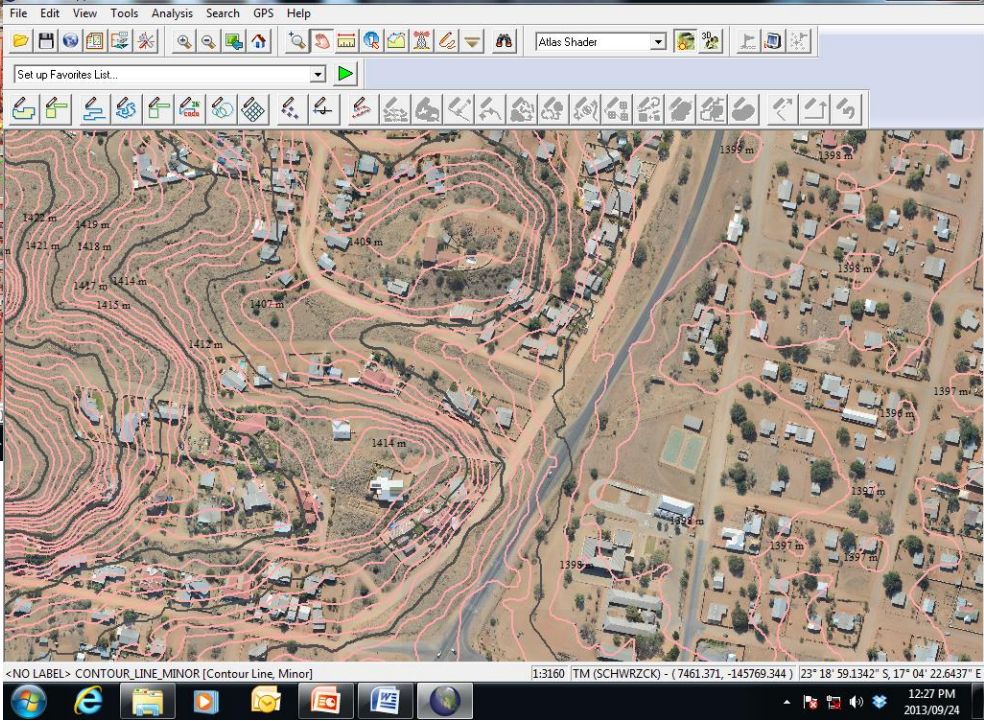
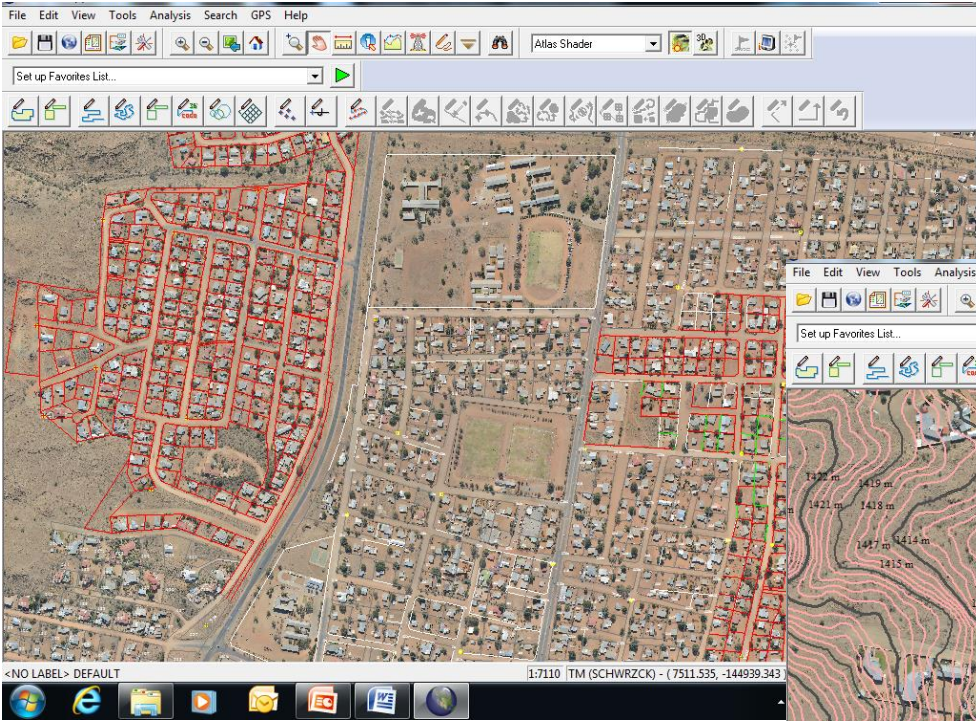
Markers	X err	Y err	Z err	Error (m)	Projections
<input checked="" type="checkbox"/> A05	0.030637	-0.026422	0.281881	0.284770	8
<input checked="" type="checkbox"/> A06	0.041220	-0.002011	0.190182	0.194608	9
<input checked="" type="checkbox"/> A07	0.005994	-0.000874	0.127416	0.127559	8
<input checked="" type="checkbox"/> A08	0.013679	0.007709	0.096232	0.097504	10
<input checked="" type="checkbox"/> A09	0.005216	-0.033677	0.102725	0.108235	7
<input checked="" type="checkbox"/> A10	-0.001220	-0.012900	0.032007	0.034530	7
<input checked="" type="checkbox"/> A11	-0.001310	-0.005356	0.009989	0.011410	8
<input checked="" type="checkbox"/> A12	-0.016910	0.015496	0.008990	0.024635	4
<input checked="" type="checkbox"/> A13	-0.006172	0.021470	-0.042855	0.048328	4
<input checked="" type="checkbox"/> A14	0.001783	-0.004182	0.036239	0.036523	4
<input checked="" type="checkbox"/> B01	-0.003333	-0.007367	0.015222	0.017236	9
<input checked="" type="checkbox"/> B02	0.018078	-0.007132	-0.138041	0.139402	11
<input checked="" type="checkbox"/> B03	0.039636	-0.002954	-0.282934	0.285712	8
<input checked="" type="checkbox"/> B04	0.014316	-0.006695	-0.133090	0.134025	10
<input checked="" type="checkbox"/> B05	0.023686	-0.013409	-0.231673	0.233160	8
<input checked="" type="checkbox"/> B06	0.014199	-0.024661	-0.192730	0.194019	8
<input checked="" type="checkbox"/> B07	0.002426	-0.030724	-0.108440	0.109005	9
<input checked="" type="checkbox"/> B08	0.013274	-0.000822	-0.107801	0.109052	10
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<input checked="" type="checkbox"/> B11	0.000383	0.002169	0.029694	0.029775	5
<input checked="" type="checkbox"/> B12	0.007817	-0.004095	-0.017347	0.019463	7
<input checked="" type="checkbox"/> B13	0.003857	-0.000623	0.037280	0.038459	5
<input checked="" type="checkbox"/> B14	-0.002966	0.002719	-0.012901	0.013513	3
<input checked="" type="checkbox"/> C01	0.010639	-0.004979	-0.026979	0.029425	9
<input checked="" type="checkbox"/> C02	0.003571	-0.000325	-0.020693	0.022589	10
<input checked="" type="checkbox"/> C03	0.012255	-0.011052	-0.059944	0.062174	8
<input checked="" type="checkbox"/> C04	0.000085	0.001507	-0.022419	0.023880	9
<input checked="" type="checkbox"/> C05	0.003072	-0.000665	-0.010467	0.010929	8
<input checked="" type="checkbox"/> C06	-0.001289	-0.004452	-0.011596	0.012478	5
<input checked="" type="checkbox"/> C07	0.007962	0.001243	-0.035938	0.036830	3
<input checked="" type="checkbox"/> XA02	0.031193	0.007076	0.185974	0.188705	9
<input checked="" type="checkbox"/> XB02	0.002667	-0.028667	-0.267310	0.268856	11
Total Error	0.017125	0.013571	0.138294	0.140010	



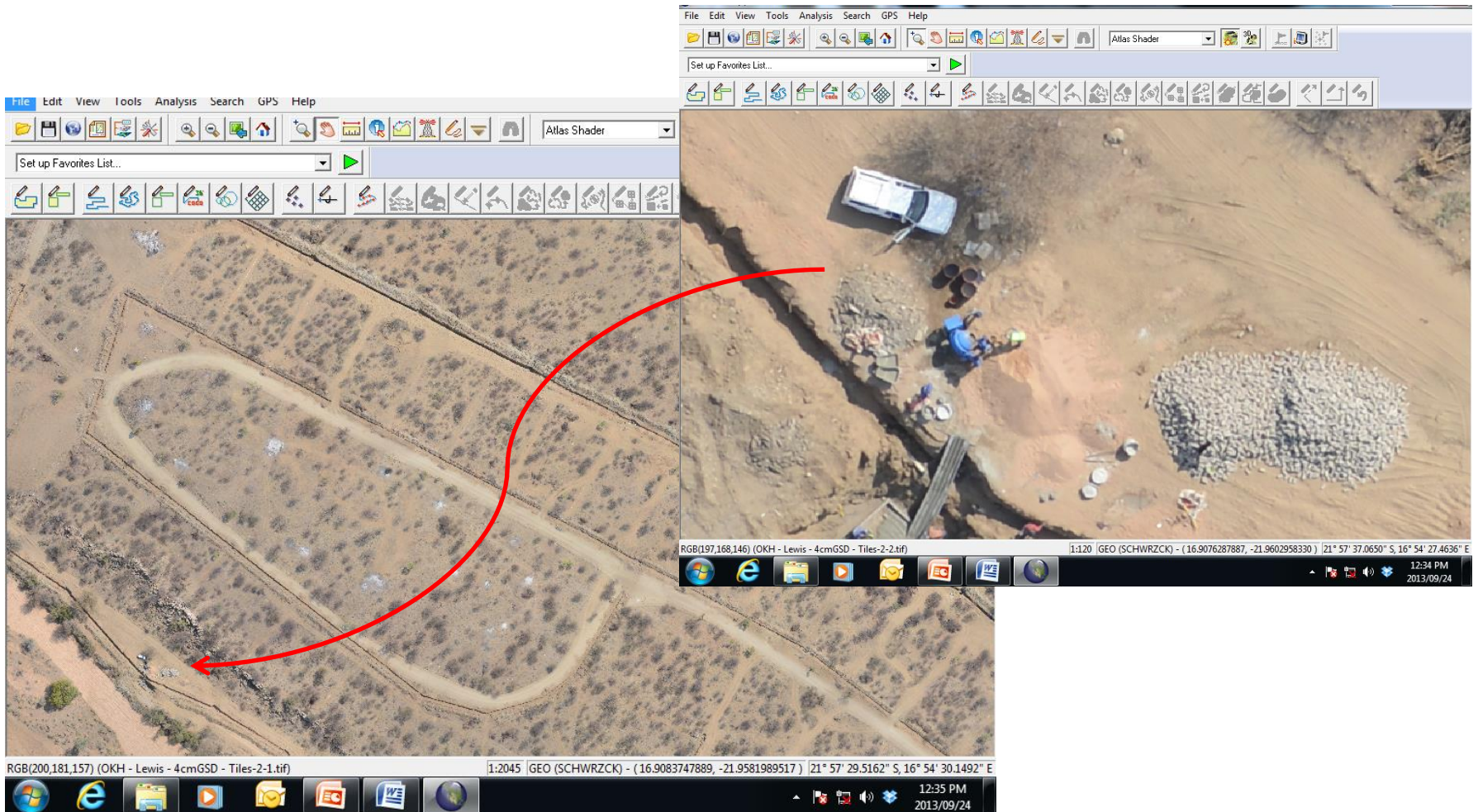
Completed Projects – Husab Mine Stockpiles



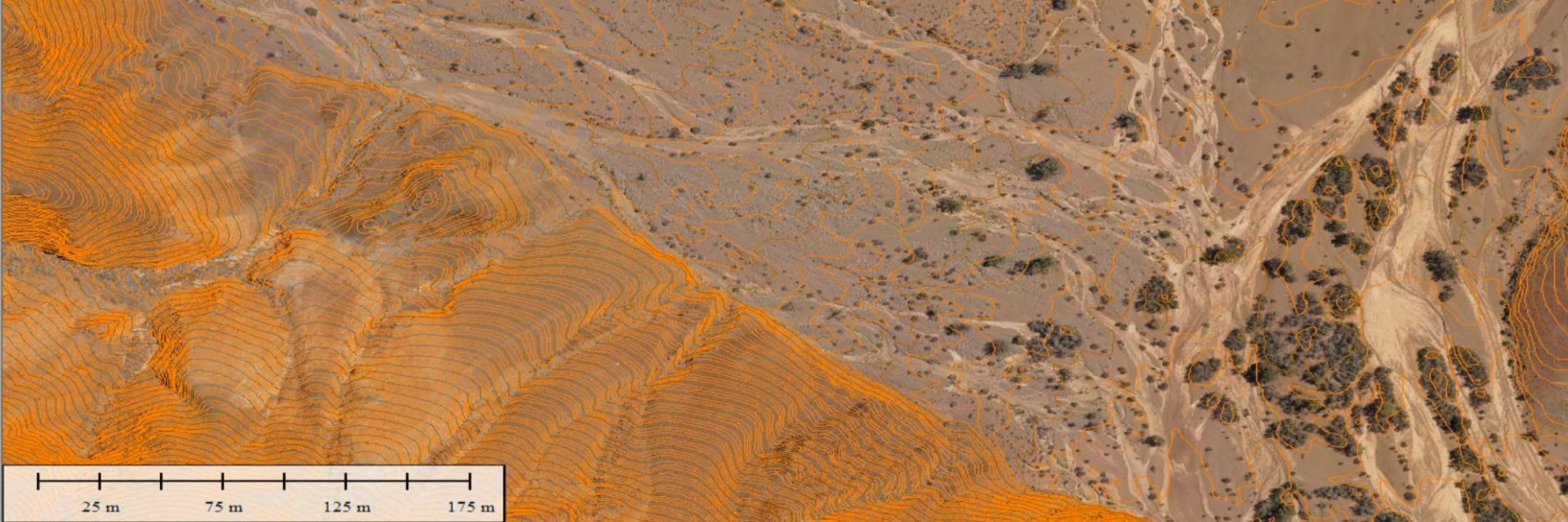
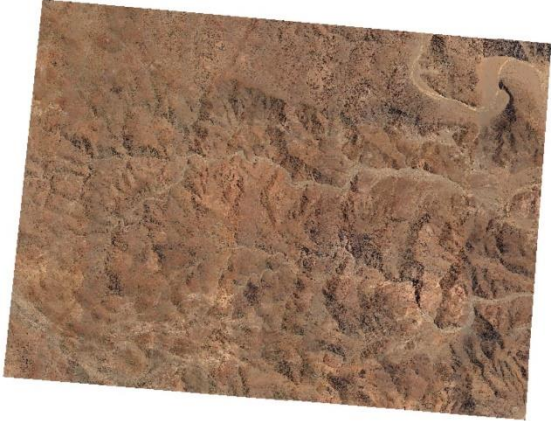
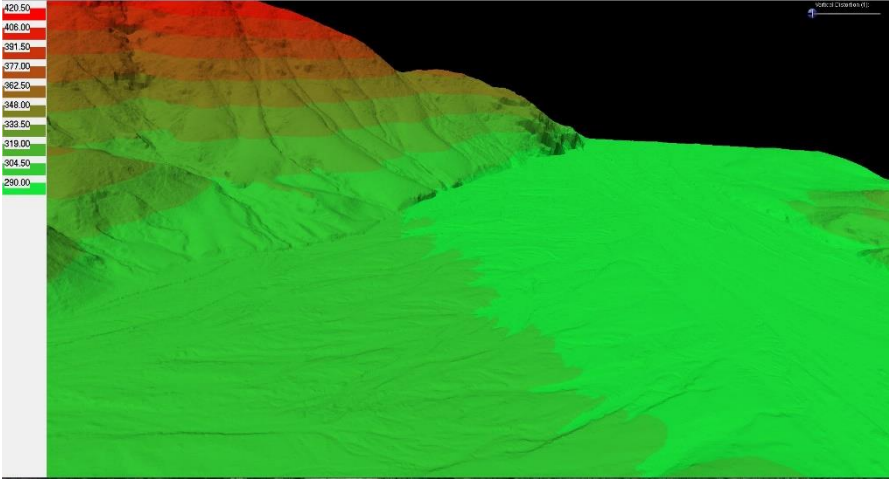
Completed Projects – Rehoboth Town 3500Ha



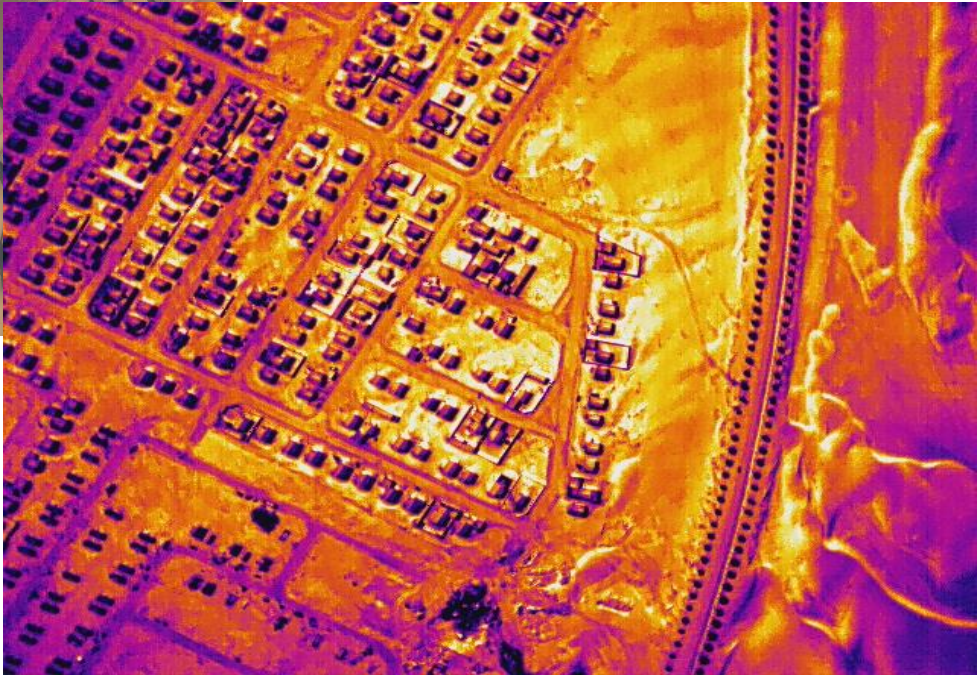
Completed Projects – Okahandja Development



Completed Projects – LiDAR Survey: Haib River Area



Completed Projects – Thermal survey: Walvis Bay





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