TerraDrone

Terra Drone Europe

GNSS and Aerial Drone Surveys

Terra Drone Group

TerraDrone Europe

15	14	7500+	24	2400+
Employees	Drones	Flights	Countries	Km² Mapped

TerraDrone

250+	210+	50K+	69	14K+
Employees	Drones	Flights	Countries	Km² Mapped

Systems in use

TerraDrone

Harris Carrier

Asctec Falcon V8

DJI M200 & M210

DJI M600

DJI Inspire 1 & 2

Terra Wing

Elios Flyability

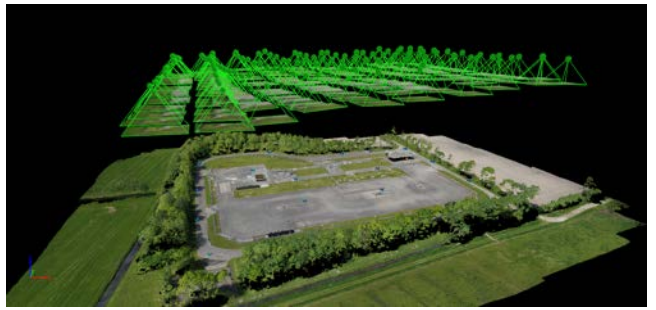
Altura Zenith ATX8

C-Astral Bramor

Case Study: Aerial Survey & Inspection of 250+ locations

250 + onshore oil and Gas Locations in the Netherlands

- Fast and cost effective method for the survey of NAM Locations
- Creation of a 3D models to check terrain height changes
- Updating of as build drawings
- Inspections of flares

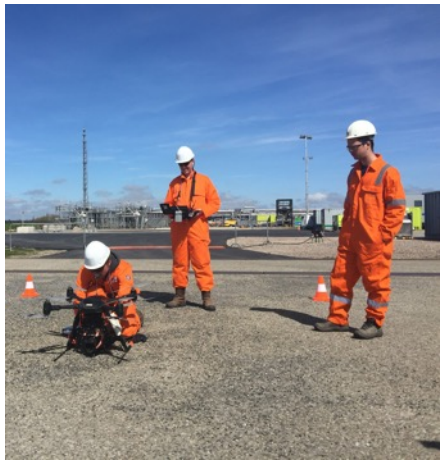


When
- October 2013 – January 2016

NAM

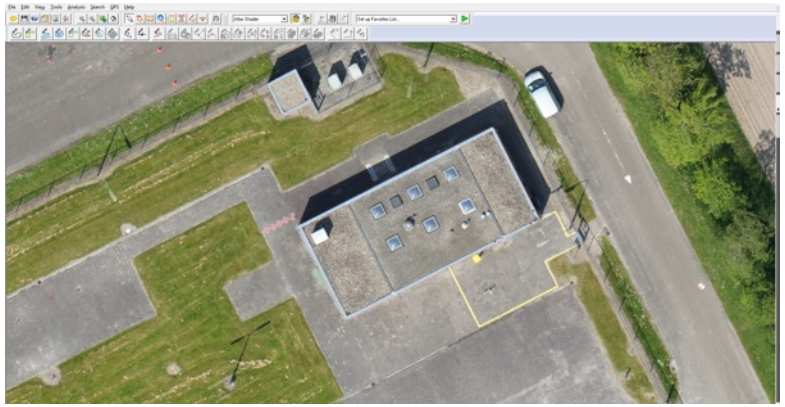
Location
- Mainly North East of the Netherlands
- 250 + Locations

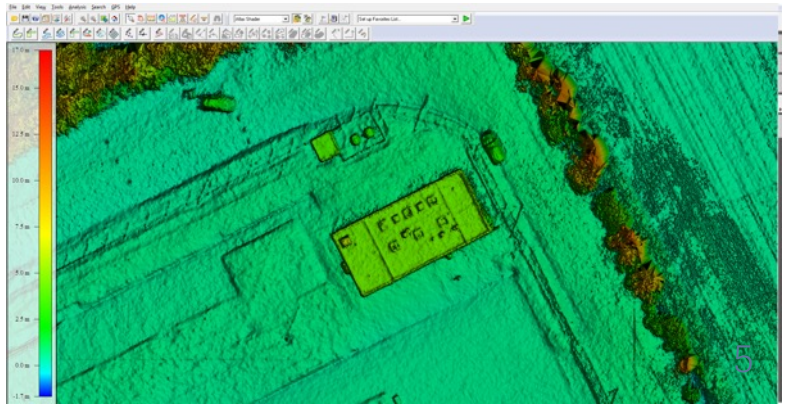
Shell



Objectives
- Deliver data for updating NAM As Build Drawings
- Create Imagery to limit site visits
- Creation of 3D models

Deliverables
- 3D Terrain and Surface Models
- Ortho rectified aerial imagery
- 360 aerial panoramas
- Point Clouds



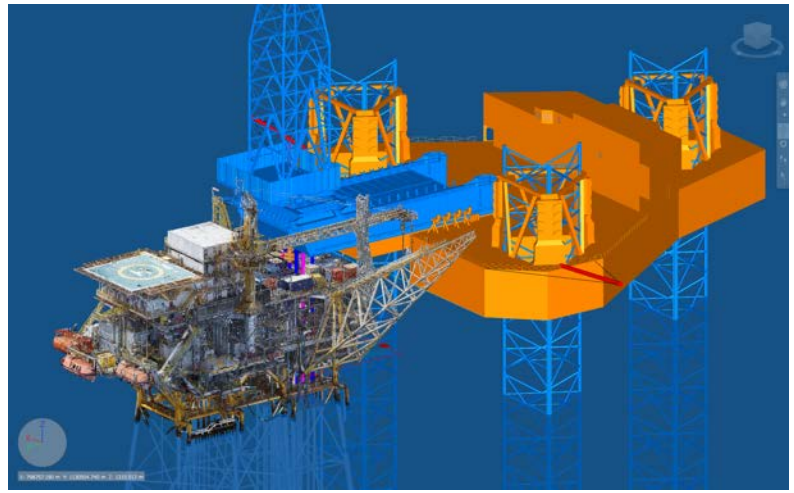


Case Study: 3D Survey of a Shell offshore platform in Trinidad

TerraDrone

3D As-Build survey of an offshore platform

- Built reliable 3D as-built dataset from scratch.
- Platform top side with photogrammetry using a UAV
- Quick method of creating a 3D model of the outside of the installation
- Photogrammetry was the only highly accurate method available
- Clashes between rig and platform were identified in the clash detection

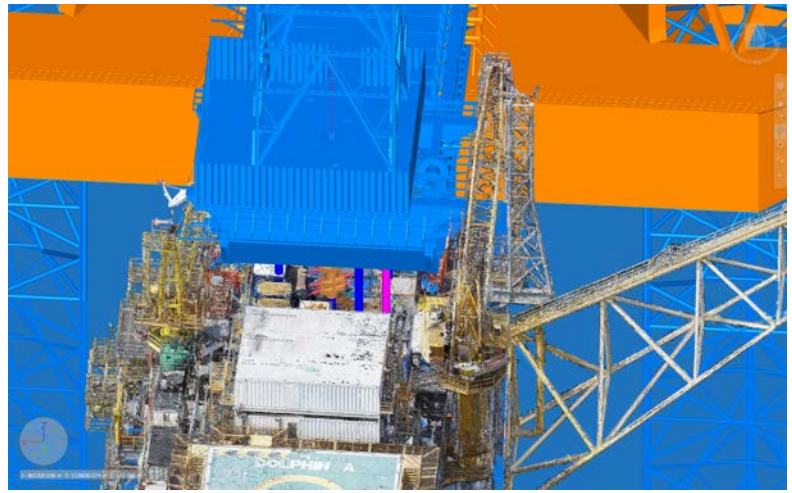


When

- August 2017
- 2 working days on the platform

Location

- Dolphin platform, Trinidad and Tobago
- 2 Days on Installation



Objectives

- Accurate as-built point cloud

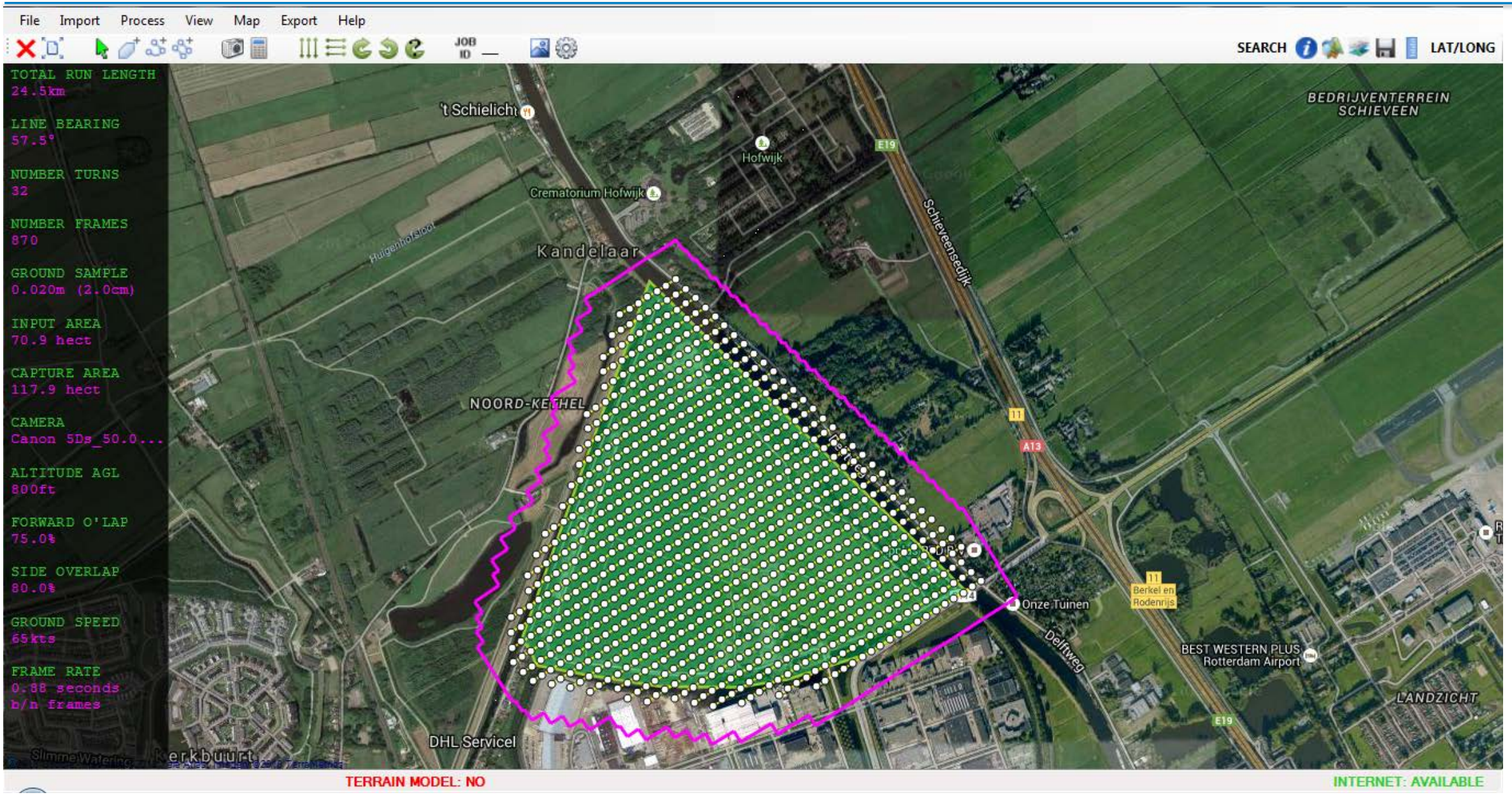
Deliverables

- 3D Point Cloud
- Textured Mesh
- Top View aerial orthophoto mosaic
- 5 x 360 degree aerial panorama
- Results of quality control measurements

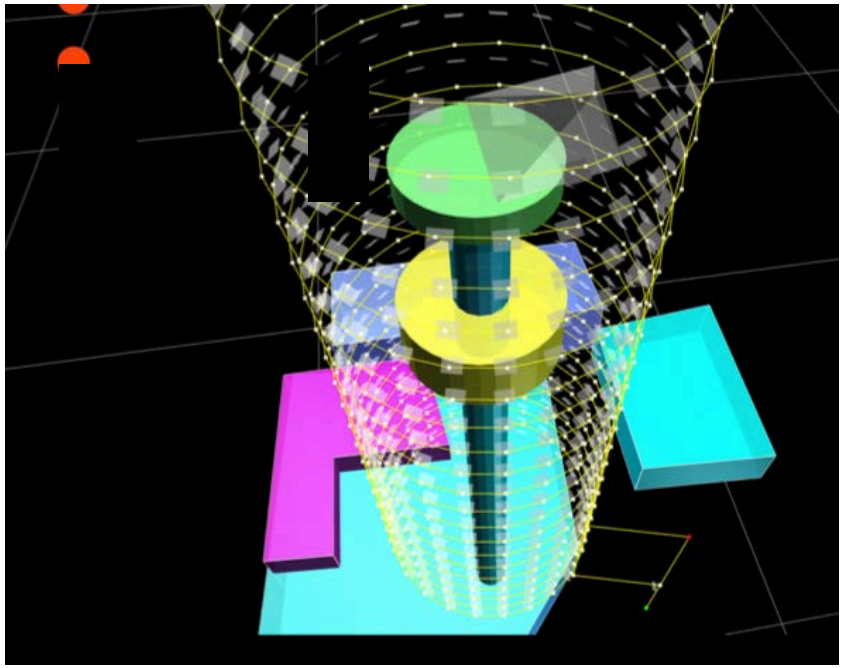
Why and where we use GNSS?

- Execution of automated flightpaths
- Measurement of ground control points for photogrammetry
- Measurement of verification points (LiDAR and Photogrammetry)
- Establishing base station position
- Computing exact position of where images are taken
- Replacement of IMU in LiDAR measurements

Automated Flight Paths (Horizontal – Survey and mapping)



Automated Flight Paths (Vertical – Inspections)



Ground Control Points

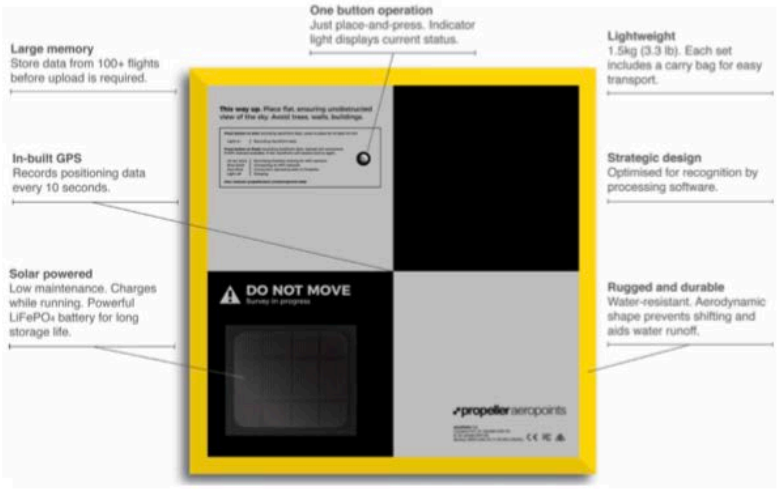
Ground Control Points

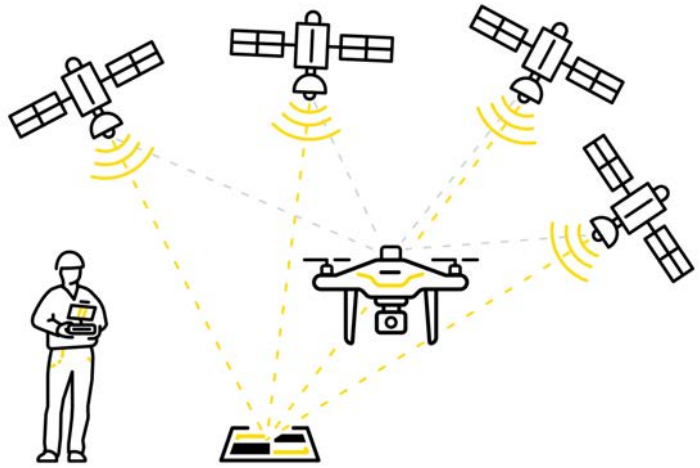
GNSS Enabled Ground Control Point

Introducing AeroPoints

AeroPoints are the world's first **smart Ground Control Points**.

Purpose-built for **drone surveying**, each AeroPoint includes a solar panel, battery, GPS and WiFi inside a fully-sealed, rugged, lightweight shell.





Specifications

Dimensions	544mm (W) x 544mm (L) x 32mm (H)
Weight	1.55kg
Power supply:	5000 mAh 3.2 V (16 Wh) LiFePO4 battery with solar charging (Newly purchased AeroPoints come fully charged)
Storage:	4GB Flash
Wireless connectivity:	2.4GHz WiFi (802.11 b/g/n)
Operating temperature:	0°C/32°F (min); 40°C/104°F (max)


Egelshoek
Hollandsche Rading
Maartensdijk
Westbroek
Achterwetering
Achttienhoven
© 2018 Google
Google Earth
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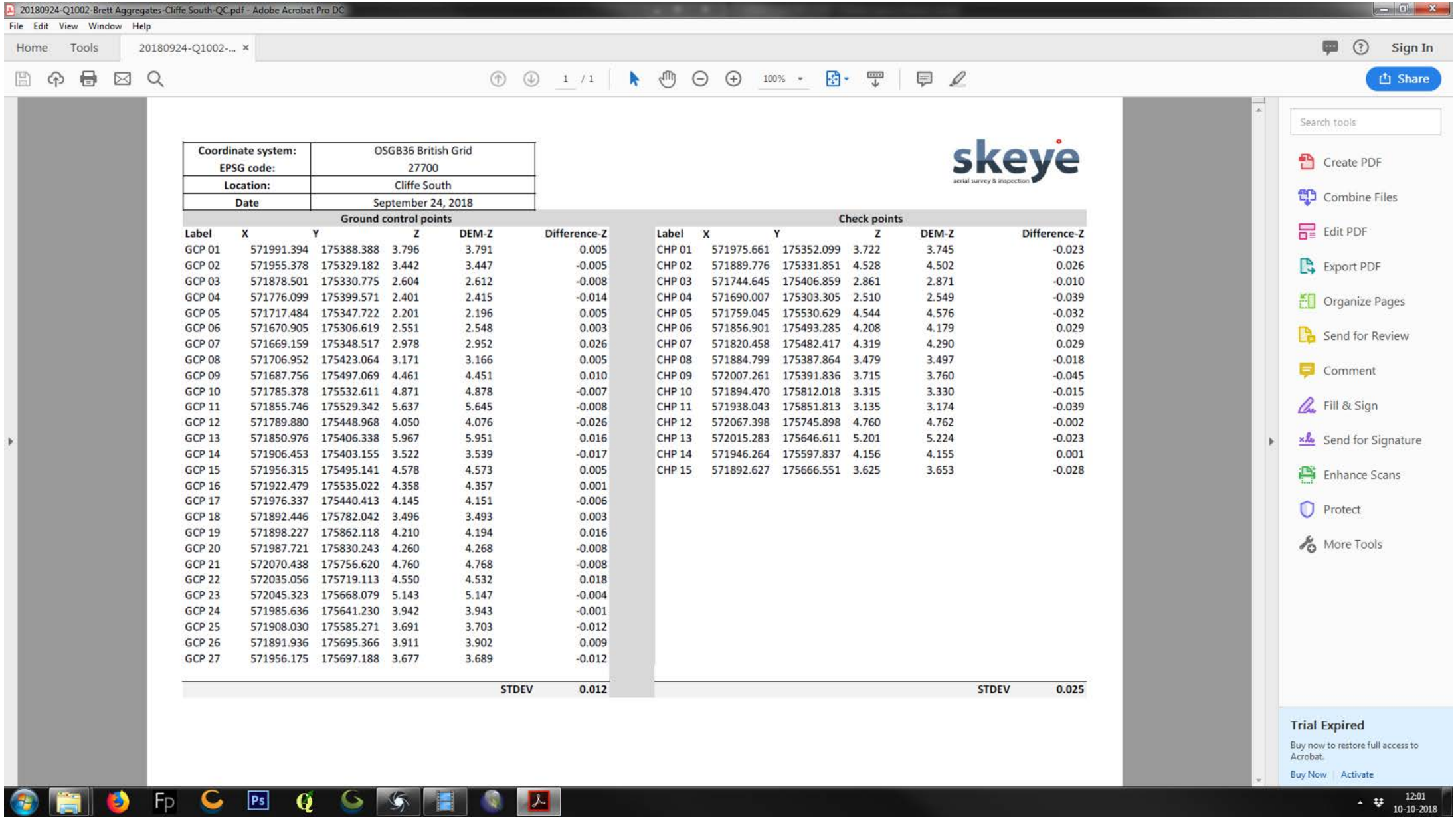
Verification Points and Quality COntrol



Coordinate system:	OSGB36 British Grid
EPSG code:	27700
Location:	Cliffe South
Date	September 24, 2018

skeye aerial survey & inspection

Ground control points

Label	X	Y	Z	DEM-Z	Difference-Z
GCP 01	571991.394	175388.388	3.796	3.791	0.005
GCP 02	571955.378	175329.182	3.442	3.447	-0.005
GCP 03	571878.501	175330.775	2.604	2.612	-0.008
GCP 04	571776.099	175399.571	2.401	2.415	-0.014
GCP 05	571717.484	175347.722	2.201	2.196	0.005
GCP 06	571670.905	175306.619	2.551	2.548	0.003
GCP 07	571669.159	175348.517	2.978	2.952	0.026
GCP 08	571706.952	175423.064	3.171	3.166	0.005
GCP 09	571687.756	175497.069	4.461	4.451	0.010
GCP 10	571785.378	175532.611	4.871	4.878	-0.007
GCP 11	571855.746	175529.342	5.637	5.645	-0.008
GCP 12	571789.880	175448.968	4.050	4.076	-0.026
GCP 13	571850.976	175406.338	5.967	5.951	0.016
GCP 14	571906.453	175403.155	3.522	3.539	-0.017
GCP 15	571956.315	175495.141	4.578	4.573	0.005
GCP 16	571922.479	175535.022	4.358	4.357	0.001
GCP 17	571976.337	175440.413	4.145	4.151	-0.006
GCP 18	571892.446	175782.042	3.496	3.493	0.003
GCP 19	571898.227	175862.118	4.210	4.194	0.016
GCP 20	571987.721	175830.243	4.260	4.268	-0.008
GCP 21	572070.438	175756.620	4.760	4.768	-0.008
GCP 22	572035.056	175719.113	4.550	4.532	0.018
GCP 23	572045.323	175668.079	5.143	5.147	-0.004
GCP 24	571985.636	175641.230	3.942	3.943	-0.001
GCP 25	571908.030	175585.271	3.691	3.703	-0.012
GCP 26	571891.936	175695.366	3.911	3.902	0.009
GCP 27	571956.175	175697.188	3.677	3.689	-0.012
				STDEV	0.012

Check points

Label	X	Y	Z	DEM-Z	Difference-Z
CHP 01	571975.661	175352.099	3.722	3.745	-0.023
CHP 02	571889.776	175331.851	4.528	4.502	0.026
CHP 03	571744.645	175406.859	2.861	2.871	-0.010
CHP 04	571690.007	175303.305	2.510	2.549	-0.039
CHP 05	571759.045	175530.629	4.544	4.576	-0.032
CHP 06	571856.901	175493.285	4.208	4.179	0.029
CHP 07	571820.458	175482.417	4.319	4.290	0.029
CHP 08	571884.799	175387.864	3.479	3.497	-0.018
CHP 09	572007.261	175391.836	3.715	3.760	-0.045
CHP 10	571894.470	175812.018	3.315	3.330	-0.015
CHP 11	571938.043	175851.813	3.135	3.174	-0.039
CHP 12	572067.398	175745.898	4.760	4.762	-0.002
CHP 13	572015.283	175646.611	5.201	5.224	-0.023
CHP 14	571946.264	175597.837	4.156	4.155	0.001
CHP 15	571892.627	175666.551	3.625	3.653	-0.028
				STDEV	0.025

Establishment of Control Network

FIELD OPERATIONS

LOGSHEET - BENCHMARK

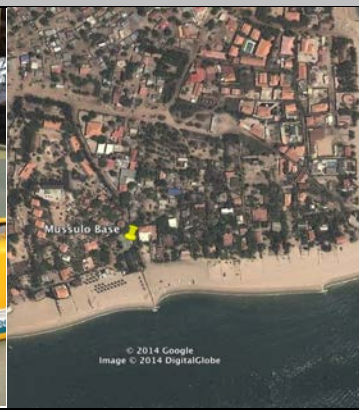
Skeye BV
Johan van Hasseltweg 39D
1021 KN Amsterdam
T: +31-20-8200955
WWW.SKEYEBV.COM

PROJECT No:	Q067	**BENCHMARK NAME**	Mussulo Base
LOCATION:	Mussulo Pensinsula	**SURVEYOR:**	PF
DATE:	02/06/2014	**REMARKS:**	Station establed usi
PAGE:	1 of 1		Hotel, Luanda as Bas

Benchmark description

Nail (Meetpunt) in the centre of the courtyard behind (North) the reception of Roca Das Mangueiros.

Situation Sketch



Coordinates projection		Coordinates ellipsoid	
X:	*295685.22*	Latitude:	*08 °53 '20.01685" S*
Y:	*9017152.46*	Longitude:	*13 °08 '20.92140" E*
Z:	*1.50*	Height:	*16.982*
Projection:	*UTM 33S (15E) on Clarke 1880*	Ellipsoid:	*WGS'84*
Datum:	*Camacupa (Clarke 1880 RGS)*		

Remarks

Vertical reference is Camacupa (MSL), Height transformations from WGS'84 to Camacupa were done via EGM2008 model

Checked (Skeye BV): {SIGNATURE} 17/12/2013 **Approved (client):** {SIGNATURE} {Da

VERSION: 121213
DOCUMENT: Logsheet - Benchmark - Mussulo.xlsx

Reach UAV RTK kit

$1242.00

Upgrade GPS in your drone with centimeter-accurate Reach UAV RTK kit. Reach M+ receives corrections from Reach RS+ using LoRa radio and outputs precise coordinates to the autopilot. This kit can also be used in other applications, where moving receiver needs to be compact.

Kit includes

— Reach RS+
— Reach M+
— Tallysman multi-GNSS antenna
— Reach M+ LoRa radio
— Carry case
— 2x Radio antenna
— Adapter for survey pole
— 2x USB cable
— USB-OTG cable
— JST-GH 6-pin to jumper pin cable
— JST-GH 5-pin to jumper pin cable

Example Morocco

GNSS and Aerial Drone Surveys

Klantenservice

Direct bestellen Nederland incl. btw

Waar bent u naar op zoek? Zoeken

Mijn account
Inloggen / Registreren

€ 0,00

Alle categorieën | Nieuwe producten | SALE % | Offerte aanvragen | Onze diensten | Nieuws en inspiratie

Vrije tijd, auto & huishouden > Modelbouw > Drones en onderdelen > Drones

DJI Enterprise Phantom 4 RTK Professionele drone RTF Professional

2 anderen

Artikelnummer: 1932562

Fabrikantnummer: 168628

EAN: 6958265168628

Intelligentie die u beleeft. Absolute precisie.Ervaar de volgende generatie moderne cartografieprocessen - met de Phantom 4 RTK, de meest compacte en nauwkeurige cartografie-oplossing voor geringe hoogtes.Cartografie van de volgende generatieDJI heef...

Volledige beschrijving

Garantie: minimaal 2 jaar
Fabrikant: DJI Enterprise

dji ENTERPRISE

Beschikbaar: 1 stuk
Verwachte leverdatum: vrij. 31-5 - zat. 1-6

Gratis levering vanaf €35,- (zie voorwaarden)

€ 5.700,00 incl. btw

€ 4.710,74 excl. btw ~~€ 6.089,00~~

Bestel nu

Voeg toe aan offerte

Relative RTK...?

GNSS replacement of IMU for LiDAR

Dual

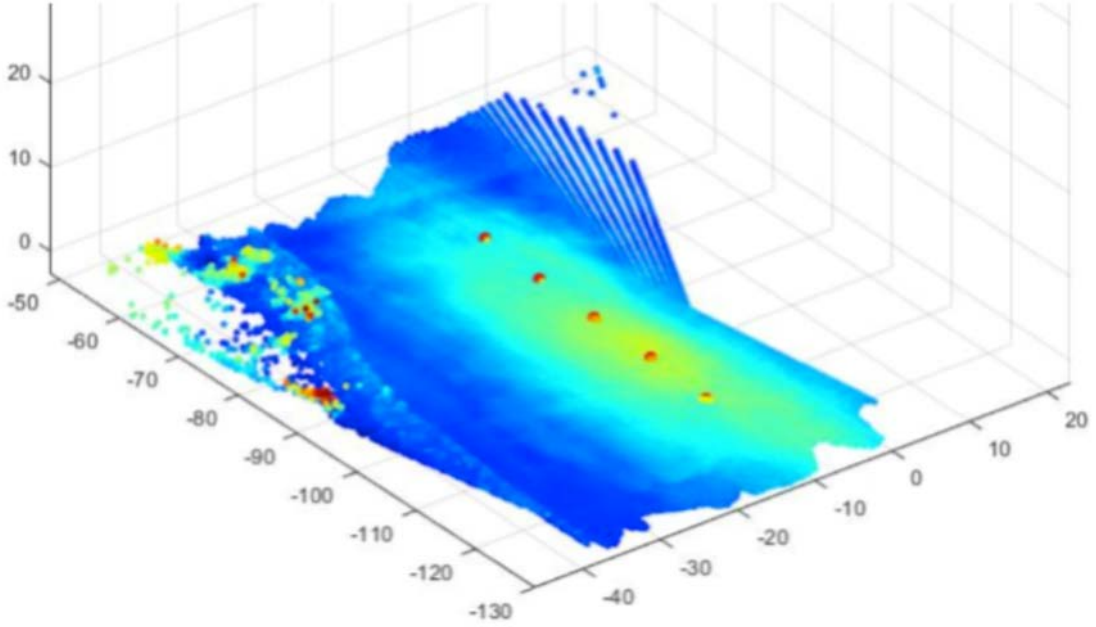
$10000

One

$200

GNSS replacement of IMU for LiDAR

Item	X m	Y m	Z m
Box1	0.019	-0.054	0.021
Box2	-0.021	-0.067	0.020
Box3	0.046	-0.043	0.014
Box4	0.030	-0.030	0.017
Box5	0.046	-0.079	-0.008
SD	0.025	0.017	0.011



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