

Geolmaging Ltd



www.geoimaging.com.cy

April 2020

Services

Geoinformatics



Surveying and mapping

Geographical Information Systems (GIS)

Photogrammetry

Remote Sensing

Laser Scanner

Cartography

UAV

Information Communication Technologies



Data management + DBMS

Image processing

Neural networks

Data & graph mining

Research consulting



Consulting in research funding

Project management



Summary of research activity



3 H2020 projects (1 as coordinator)



10 FP7 projects



3 EUROSTARS (1 as coordinator)



4 AAL (2 as coordinators)



1 Lifelong Learning Programme & 1 Erasmus +

An aerial photograph of a mobile phone tower situated in a wooded area. The tower is a complex metal structure with various antennas and equipment. A yellow semi-transparent rectangular box is overlaid on the upper part of the image, containing white text. The background shows a dense forest of green trees and a clear sky.

Αποτύπωση πυλώνων κινητής τηλεφωνίας με την χρήση Drone και δημιουργία 3D μοντέλων

An aerial photograph of a mobile phone tower, similar to the one in the first image, but with an orange semi-transparent rectangular box overlaid on the lower part. The tower is surrounded by trees and a paved area. The text is white and centered within the orange box.

Παρουσίαση
Λιθοξόπουλος Νικόλαος
Geoinformatics engineer

Drone 3D mapping - Telecommunication towers

Φωτογράφιση Πυλώνα με drone



Για την φωτογράφιση ενός πυλώνα ύψους 45 μέτρων απαιτούνται περίπου 1100 φωτογραφίες

Χαρακτηριστικά φωτογραφίας

Dimensions: 5472 x 3648 px

Resolution: 72dpi

Size: 8.2 mb

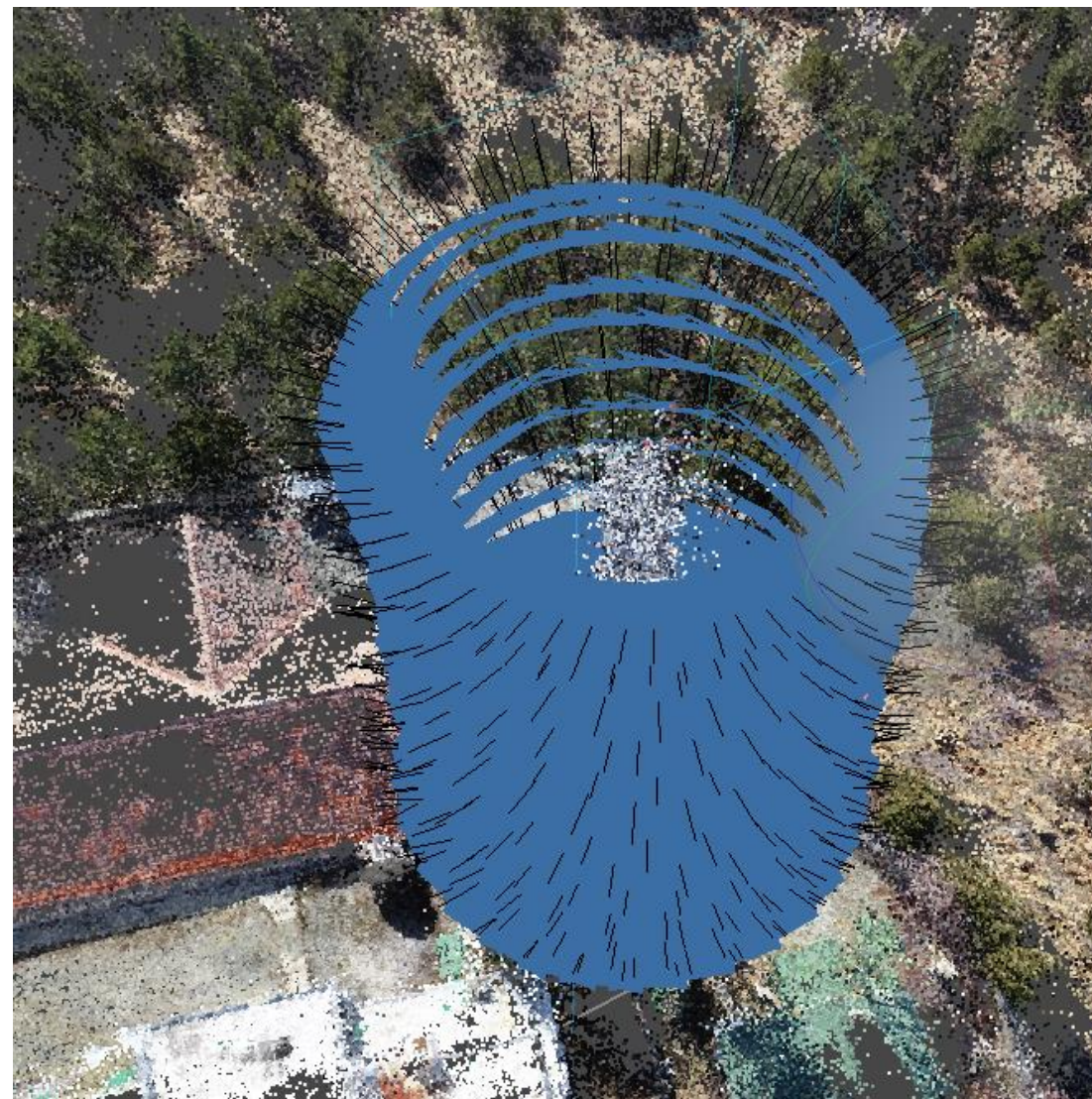
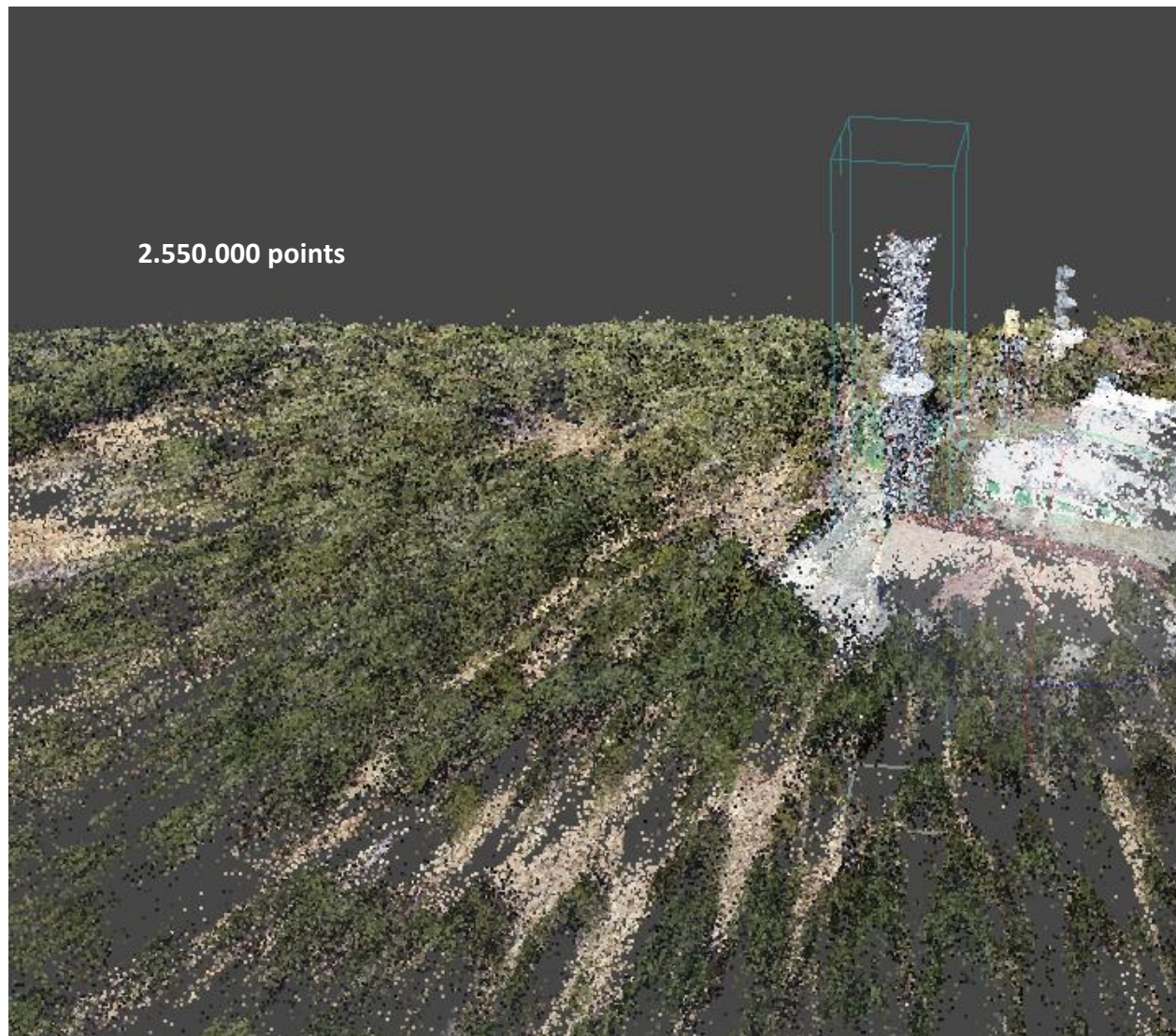
Drone 3D mapping - Telecommunication towers

Δημιουργία και καταγραφή με GPS σημείων ελέγχου στο πεδίο



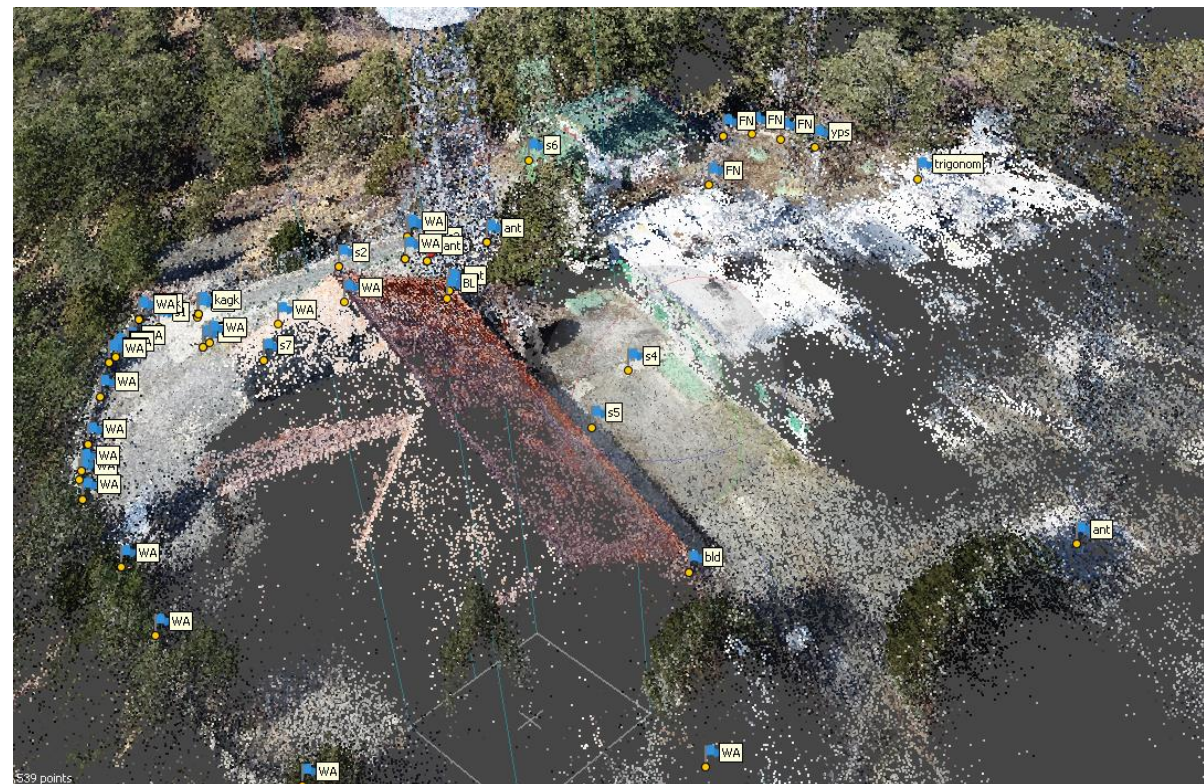
Drone 3D mapping - Telecommunication towers

Δημιουργία Pointcloud



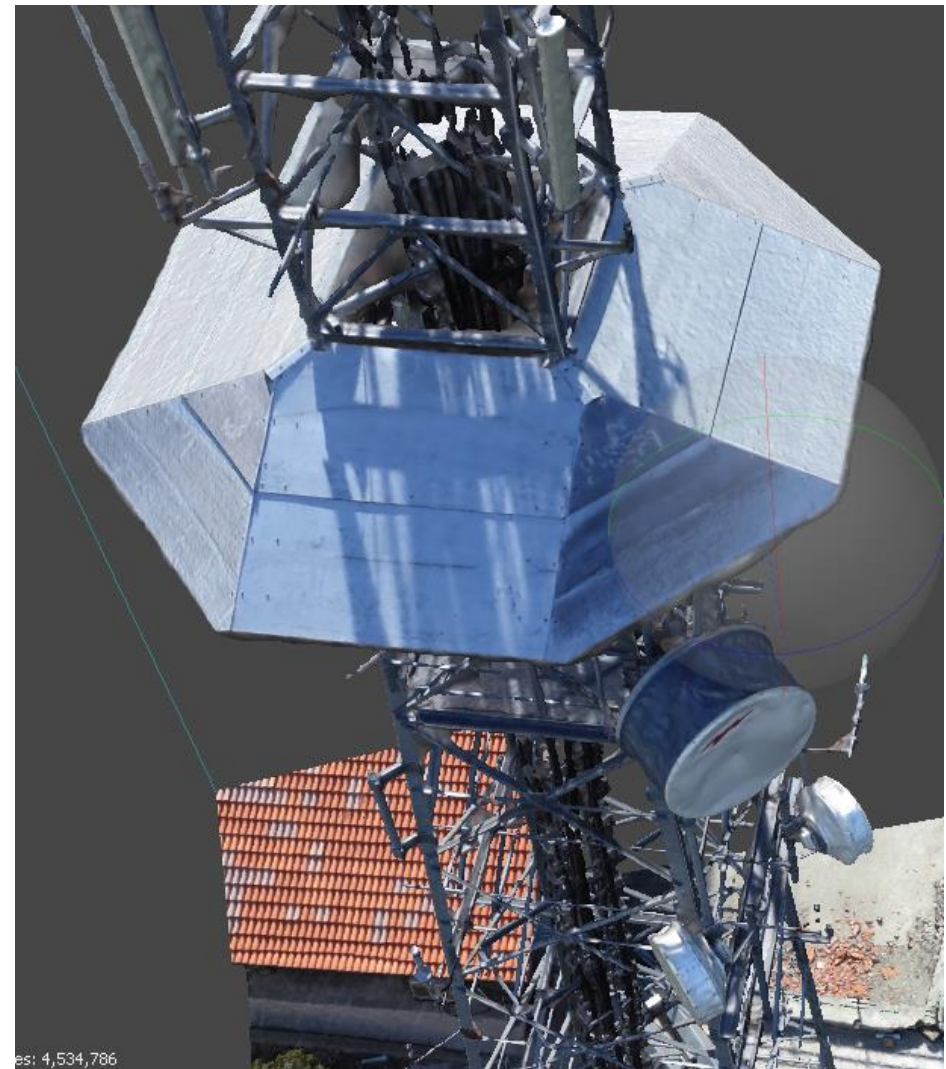
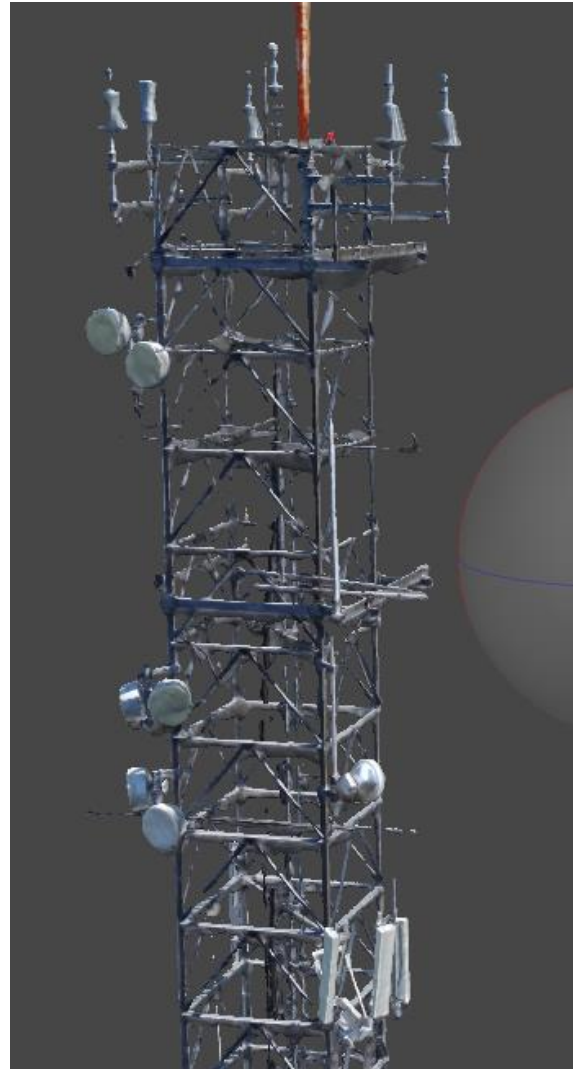
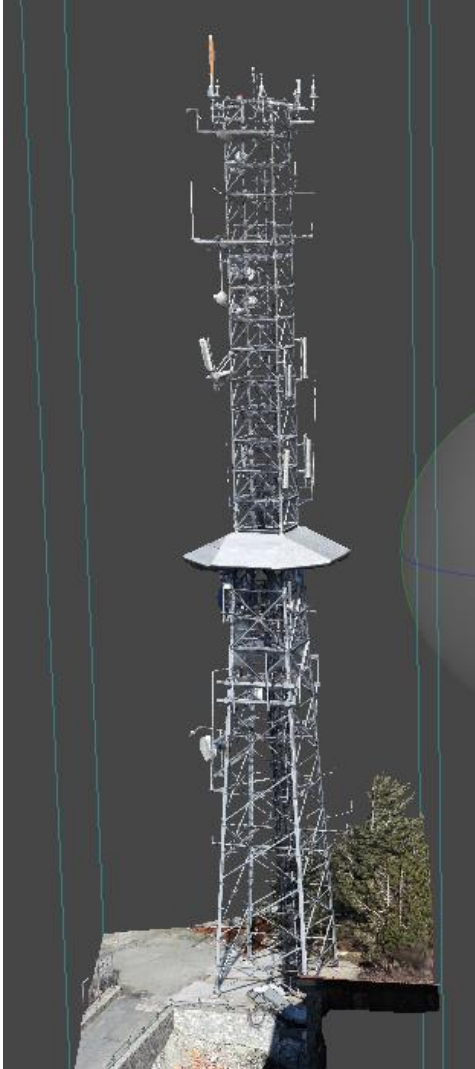
Drone 3D mapping - Telecommunication towers

Add Control points



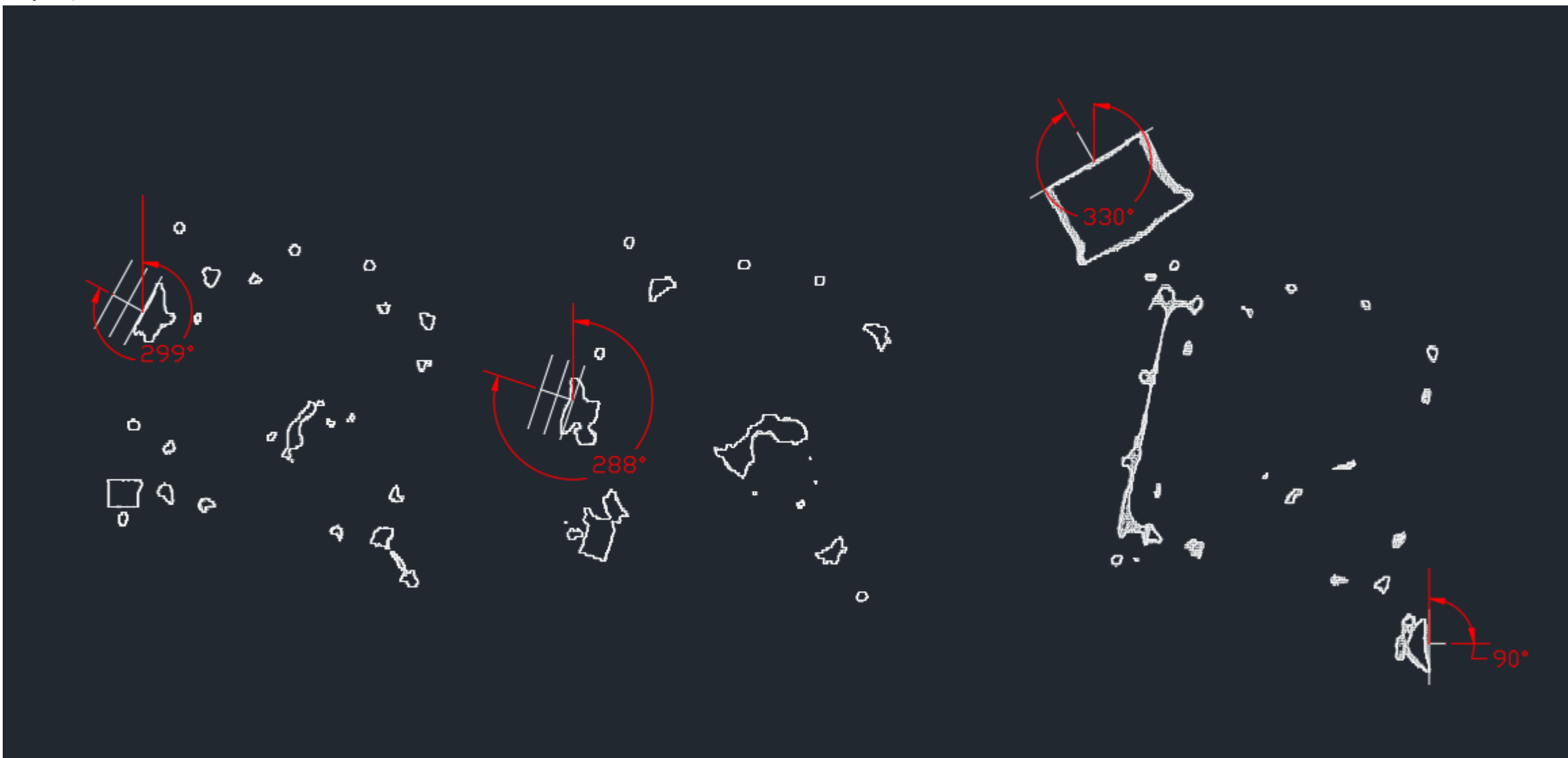
Drone 3D mapping - Telecommunication towers

3D Model



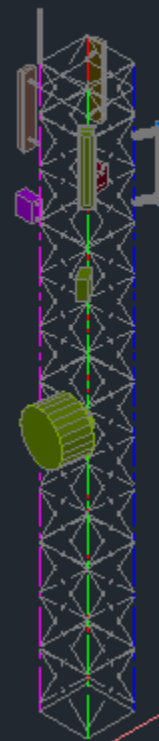
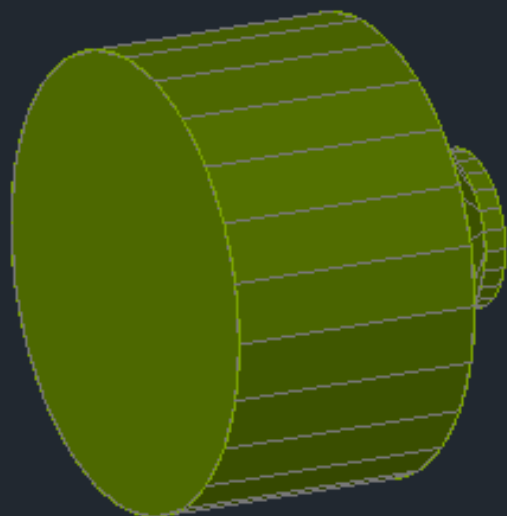
Drone 3D mapping - Telecommunication towers

Τομές Πυλώνα



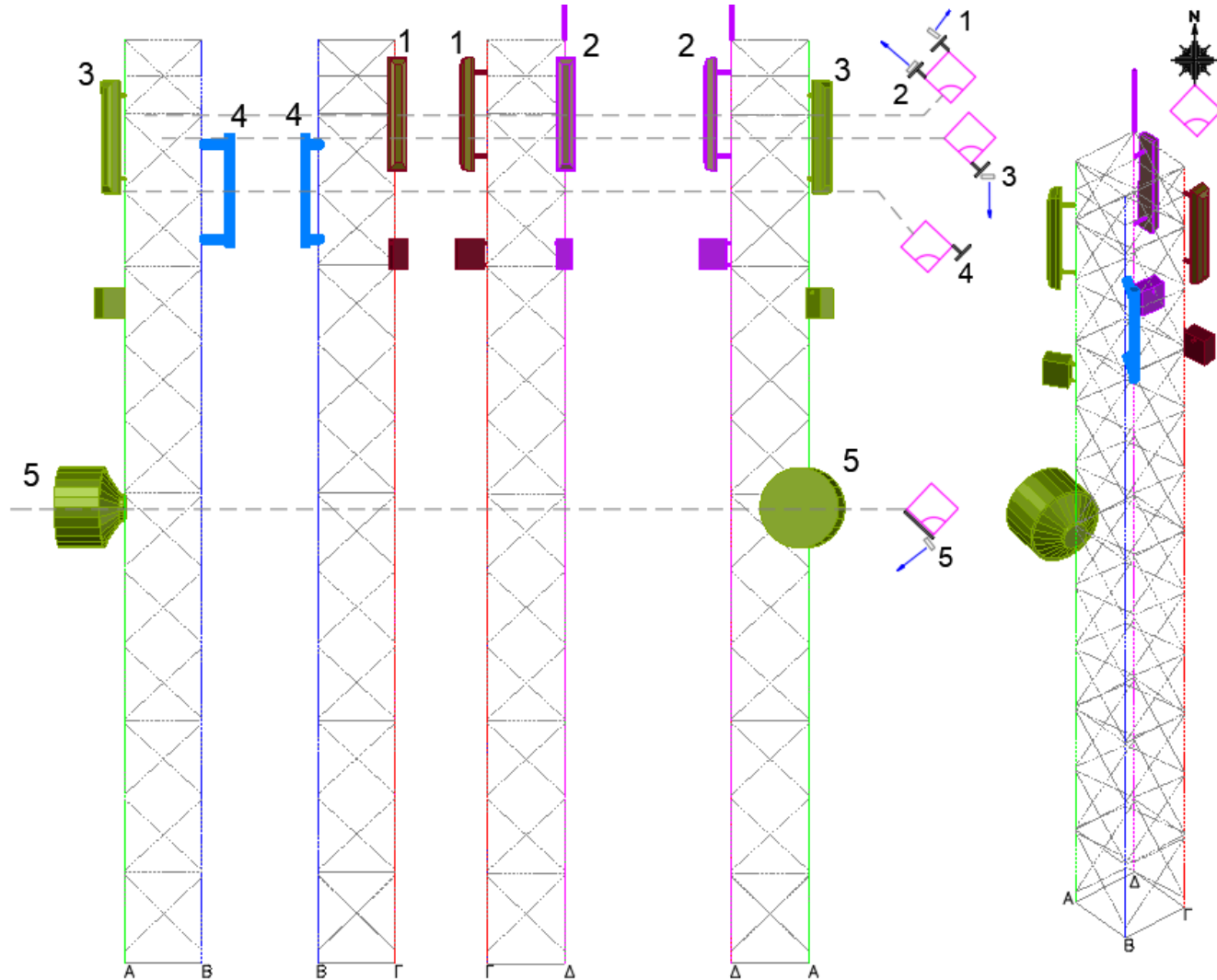
Drone 3D mapping - Telecommunication towers

Εξοπλισμός Πυλών



Drone 3D mapping - Telecommunication towers

Εξοπλισμός Πυλώνα



Στα τελικά σχέδια υπάρχει ενσωματωμένος πίνακας όπου παρέχει τις παρακάτω πληροφορίες:

- Ύψος κεραίας
- Κατεύθυνση κεραίας
- Μέγεθος κεραίας
- Τύπος κεραίας
- Βάρος κεραίας

Ευχαριστώ πολύ για την παρακολούθηση

Nikolaos Lithoxopoulos
Geoinformatics engineer- Researcher

