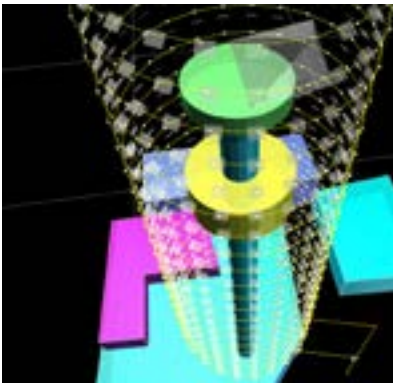# How The iGlobe Group Reached 100% Successful Tower Inspections

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USE CASE

The Challenge

While the ROI of inspecting cell towers using drones has been successfully demonstrated in numerous PoCs around the world, the challenge of consistent and robust data acquisition around cell towers was until recently an unsolved problem rendering all suggested workflows unscalable. Drone Harmony's Cell Tower Scan, a dedicated mission planner intended for the sole purpose of inspecting cell towers solves this problem.

The Results

Cell Tower Scan has by now been successfully deployed to achieve reliable data acquisition for inspecting hundreds of cell towers in six continents. In one of the most extensive tests performed, the iGlobe Group (SA), a company specializing in drone-based inspections, conducted a thorough study of the added value of automating their cell tower inspection workflow using Cell Tower Scan. The results, summarized below, are a reduction of more than 50% in the total inspection time and an increase of robustness (the chance of a successful inspection) from below 50% to close to 100%.

Old
19 Hours
<50% Success

Task	Time vs Success
Office Planning	– 2 Hours (80%)
Field Planning	– 1 Hours (90%)
Drone Flying	– 3 Hours (50%)
Processing (1750)	– 12 Hours (90%)
Successful 3D Model	– 1 Hours (50%)

New
8 Hours
98% Success

Task	Time vs Success
Office Planning	– 1 Hours (100%)
Field Planning	– 1 Hours (100%)
Drone Flying	– 1 Hours (100%)
Processing (1750)	– 4 Hours (98%)
Successful 3D Model	– 1 Hours (100%)

With more than 3 million assets around the world, the cell tower inspection market is among the fastest growing and most promising drone inspection markets and Drone Harmony is geared to play an important role in it.
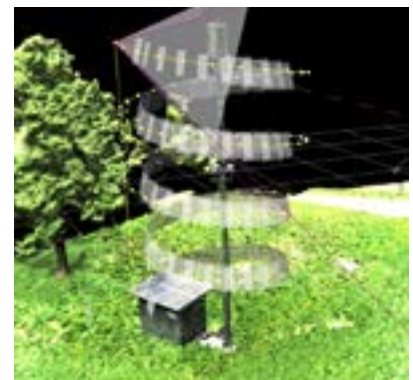
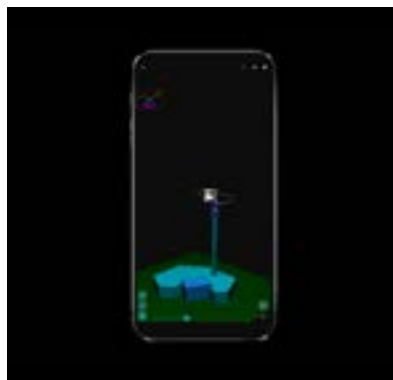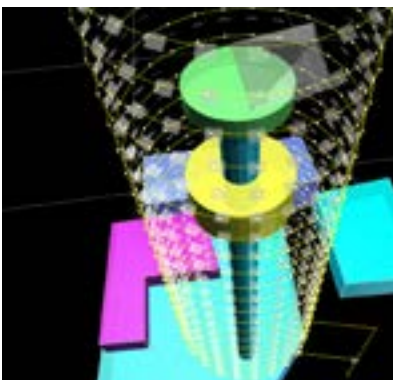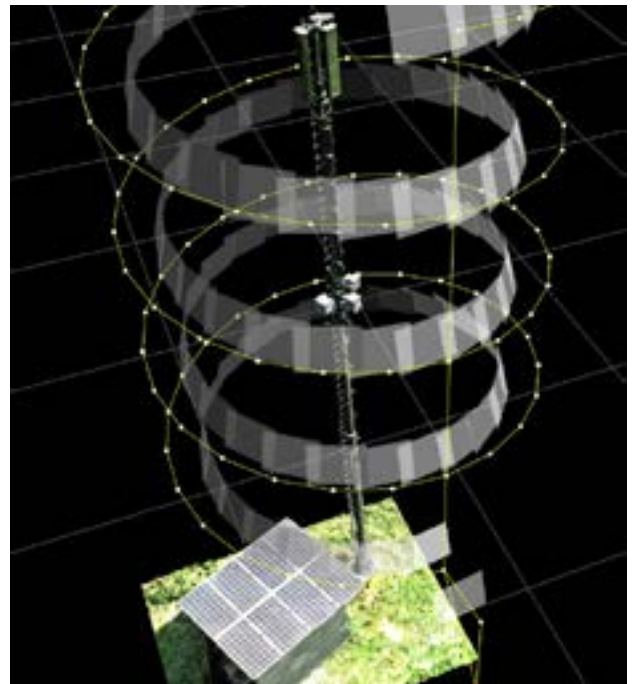### Quoting iglobe managers on the value of using drone harmony:

"Previous methods were slow and time consuming. Besides for the time constraint there was a quality factor which was also important for the sale of the whole solution. With the Drone Harmony application acquisition was consistent, the flight patterns and automation provided us with consistent high-quality models for the purposes of tower inspections. Every trip out got us a usable tower model and with testing on the same tower we got consistent results every acquisition."

How easy is it to train pilots to use drone harmony?

"The Drone Harmony application makes training fast and easy. For the inexperienced pilot in terms of 3D modelling/inspection flying it can take up to 30 minutes to fully brief the Pilot on the purpose with 30 minutes on the actual software including mission setup. So, after an hour the pilot can be ready to carry out the mission."

Iglobe pilots had the following to say about cell tower scan:

"The Drone Harmony application makes training fast and easy. For the inexperienced pilot in terms of 3D modelling/inspection flying it can take up to 30 minutes to fully brief the Pilot on the purpose with 30 minutes on the actual software including mission setup. So, after an hour the pilot can be ready to carry out the mission."