

SUCCESS STORY

Tank Storage Terminal

°THE CHALLENGE

Having performed scans for a tank storage farm for liquids in Antwerp on a smaller scale in the past, STORMBEE is requested to scan the entire site of the storage tank facility. The 8 ha comprises of more than 100 tanks, several buildings, roads and railway lines in addition to its own shipping terminal on the river Scheldt.

The project presents unique challenges due to the volatile nature of the materials in storage, many of which are used in the petrochemical industry. The site is also situated within the CTR zone of Antwerp International Airport.

An accurate 3D CAD model is then produced from the point cloud data.



°THE STORMBEE SOLUTION

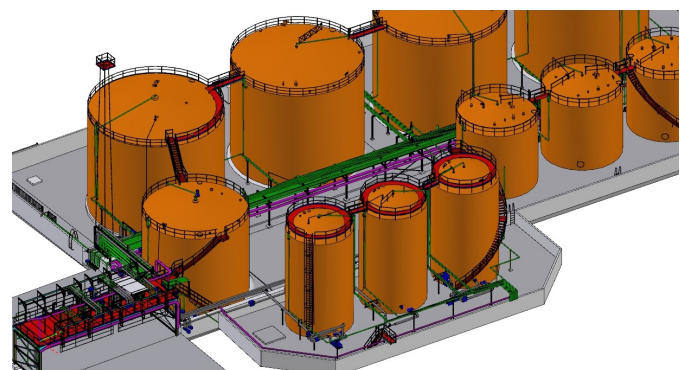
STORMBEE is granted special permission from the relevant aviation authorities to fly inside the airport's CTR zone. The STORMBEE UAV LiDAR solution scans the zone in 10 flights over 4 hours.

As the client requires all aspects of the site in the CAD model, STORMBEE programs the flight path to capture scan data from as many angles as possible. Several areas of the site have limited access due to chemical or explosive hazards. The STORMBEE can scan such areas remotely, without endangering people.



°ADVANTAGES

- Ability to scan a site in a fraction of the time required using traditional methods
- Scan includes tops of storage tanks and difficult to access areas between tanks and around the shipping terminal
- No ground control points required for this project
- Relatively low costs
- Ability to transform data to 3D CAD model
- Possible to fly inside airport CTR zone



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UNBEATABLE ACCURACY IN MOBILE 3D LASERSCANNING