



# TOPOGRAPHIC AUDIT OF LARGE VOLUMES OF AGRICULTURAL PRODUCTS

**Case Study:** Topographic Audit – Agricultural Corporation

An agricultural organization needed a solution to **complete inventories of large volumes of products** stored in silos and warehouses



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## Case Study: Topographic Audit – Agricultural Corporation

An agricultural organization based in Brazil, required the support of RGIS. The corporation supplies agricultural products and services and employs approximately 1,700 staff, with more than 6,000 members. It operates in the grain storage segments such as corn, soy, peanuts and others. It also has grocery stores, gas stations, fuel distributors, insurance companies, hardware stores and department stores.



### REQUIREMENT

The agricultural organization had no solution to carry out inventories of their products with any reliability. With large volumes, any loss or deviation meant very large losses. The company needed **bespoke technology to complete inventories of large volumes of products** stored in silos and large warehouses, so required RGIS to provide the following:

- Conduct an inventory of all products across **four locations in Brazil**
- Complete a **topographic inventory** on the following products:
  - Bulk products in **6 silos** including corn, soy and wheat
  - Bulk products in **18 warehouses** including peanuts and sugar
  - Products stored in bags including peanuts, rice and beans
- Complete the inventory **efficiently and in a timely manner**



### SOLUTION

The agricultural organization partnered with RGIS to complete the **topographic inventory project**, and RGIS provided the following:

- The process consisted of a laser scan that produced a cloud of points that reproduced the scanned object. The process used techniques common to conventional topography
- Scheduled a team of **two RGIS experienced auditors** to complete an inventory of a inventory a warehouse or silo per day
- **Specialized lazer scanners** were used that were rented from a third party
- A laboratory completed **density and moisture tests**



### RESULTS

The agricultural organization found by outsourcing the **topographic inventory project** to RGIS, the following results were achieved:

- Teams **accurately measured and inventoried products** at all locations requested by the customer, in silos, warehouses and bags
- RGIS teams delivered an **accuracy of 99.8%**
- The customer was **very satisfied with the process** and receiving results in one day

By partnering with RGIS, the agricultural organization was able to complete **topographic inventories of large volumes of products** stored in silos and warehouses **accurately and efficiently**



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Topographic Audit



Information Gathering



Accurate Data



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