



Case Study:

Federal Government – Department of Agriculture, Water and the Environment

PowerData Group helped the Department of Agriculture, Water and the Environment to add new commodities into the Compliance Based Import Scheme (CBIS).

Client

Federal Government, Department of Agriculture, Water and the Environment, Canberra.

Challenge

The Department of Agriculture, Water and the Environment approached us to help with the delivery of the following:

- Extract historical data from their import database,
- Analyze and summarize historical data into reports,
- Design CBIS system to achieve specific quality level while reducing resource utilization,
- Implement all required methods in R,
- Train staff in maintaining and expanding data analytic tools into the future.

The Outcome

- Improved understanding of usage of Statistical Quality Control methods in the Department of Agriculture, Water and the Environment
- Reallocation of inspection effort from low risk to higher risk commodities
- Introduction of 2 new commodities into the Compliance Based Intervention Scheme
- Greater use of data into the decision process of the Department of Agriculture, Water and the Environment

Our Work

- Commodity specific SQL scripts extracting data from the Australian Import Management System Database
- Include state of the art Statistical Quality Control methods into a R package to perform analyses and simulations
- Writing R Scripts to process data automatically
- Create powerBI dashboards and PDF reports for decisions makers

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