

Project - Database

Operational follow-up and dashboard

CHALLENGES

- Handwritten information on paper (by operator on dredging machine) of up to 60 to 100 datapoints per machine per day.
- Pictures taken of documents and sent to office by email (once every 24 hours)
- Manual data entry by one full time employee
- A lot of risks of data entry errors
- A lot of manual calculations and transferring from one excel tab to another
- Inconsistencies in data entry
- No easy way of getting data analysis and dashboard
- Each project had it's own spreadsheet causing difficulties when it came to comparing productivity from one contract to another

ACTIONS

- Created program using Microsoft Access for:
 - Easy data entry into stand alone laptop on each dredging machine
 - Simplified data entry with automatically calculated fields
 - Automatic data validation
 - Easy export process into text files electronically sent to the office as often as required by customers or head office
 - Data automatically linked to dashboard comparing actual data to the budgeted projects

RESULTS

- Risks of data entry errors have been eliminated by use of export/import program.
- Data is available as often as required by customers.
- All data collected is available for analysis as soon as it is imported into the head office master copy
- All data is in one large database for all past contracts and current contracts, allowing easy analysis and comparison
- Database allows easy access to analyze un-productive time such as machine breakdowns, waiting times, etc....
- No delays in report creations, all data is live.