



BEST PRACTICE GUIDE

Many construction companies have been running the same black and white columnar reports for years. While consistency lends itself well to familiarity it does not take advantage of new and better approaches to reporting and technology. Our goal for this guide is to provide information on best practices for reporting and introduce new concepts that could help your construction company set itself apart in a very competitive market.

IMPROVING CONSTRUCTION REPORTING

Why spend time improving reporting?

Ask yourself if you or your company could be more proactive. Are your project managers and accounting staff able to work proactively on improving your business or do their days “blow up” reacting to information. Good, timely reporting can reduce the size of those fires and give earlier warning to bad information. It can also materially reduce the risk you face as a construction company – for example monitoring job margin erosion over time will tell you well before the jobs over that the profit is disappearing.

How do I start improving reporting?

Improving reporting is a continuum – you can make gradual improvements over time. Start by identifying some easy wins and work your way up to some of the bigger challenges. Report improvement involves 5 areas:

1. Report design improvement
2. Data quality
3. Reducing the use of Excel as a reporting tool
4. Using dashboards to quickly convey key information
5. Mobile availability of reports



2. DATA QUALITY

The saying “garbage in – garbage out” certainly applies to construction reporting. That’s not to say all of your data is garbage but having information that isn’t accurate in one area undermines your whole system.

Data quality means that reports are accurate, complete and timely. Data quality is directly related to your internal processes and systems. Good processes yield good data.

Here are 3 ways to improve data quality:

Determine root causes of data issues

If you are in a meeting and the accuracy of data is questioned follow best practices to address the situation:

1. Quickly identify the data issue in the meeting if possible. If someone is questioning why some change orders are missing they likely know what is going on with the information.
2. Promise to have the issue corrected
3. The most important step – find out why information was wrong. Could it be incorrect on other jobs as well? Follow the process through and make any adjustments necessary to prevent this from happening again. If you are coming across the same issues repeatedly you have a process, personnel or systems issue that needs correcting to maintain trust in your reporting.

Hold people accountable for missing data

Your executive team needs to support the processes that run your business. Ask your finance and project teams where they spend time chasing information down that is expected to be entered by a certain date. One client of ours constantly said that the battles in business should be outside the office walls, not inside. Eliminating internal chasing saves frustration and can dramatically improve productivity.

One example of holding people accountable is to call out the project managers that haven’t submitted the information necessary to complete your Work in Progress report. We had one client have us highlight the project manager’s name in pink on the WIP report where they had not submitted information by the required date. They circulate this report monthly. After a few months the number of late submissions dropped by 90% and there had to be a good reason to be late. It’s embarrassing to know that you aren’t doing your job properly when others are pulling their weight.

Identify incomplete data in reports

You can format your reports to tell readers that data is incomplete. For example we’ve formatted income statement numbers in red when they are run for a month that isn’t closed yet. The goal is to eliminate misunderstandings between the report users and the staff preparing the underlying information. These misunderstandings can be stressful!

GOOD REPORTS
INCREASE
PRODUCTIVITY!



Using spreadsheets
to create reports
can introduce
significant RISK
and COST to your
organization.



DATA QUALITY, continued...

You can do the same thing for job cost reports, highlighting numbers or adding a conditionally displayed title for report data that is prior to a cutoff date or a completed process (i.e. the WIP report prior to the 7th day of a month).

Preventing bad data is easier than catching it

If you want to improve data quality start reviewing data collection with the highest risk of error – field data. Look at how data is gathered, the forms that are filled out online or on paper and when forms are required to be submitted. It's tough to enter data in the field, make sure you are only gathering what you need. Look at form design to make sure that information is in a logical order to enter and that the forms are easy to fill out. Spending a day with the people in the field working through data entry with them will show you where data entry could be made easier or where data collection methods could be improved.

3. REDUCING SPREADSHEET REPORTS

Microsoft Excel is an excellent analytical tool. It's easy to use and inexpensive to purchase. As a reporting tool it doesn't work so well and may cost you many times its purchase price in time and errors. When you use Excel to create reports you face the following challenges:

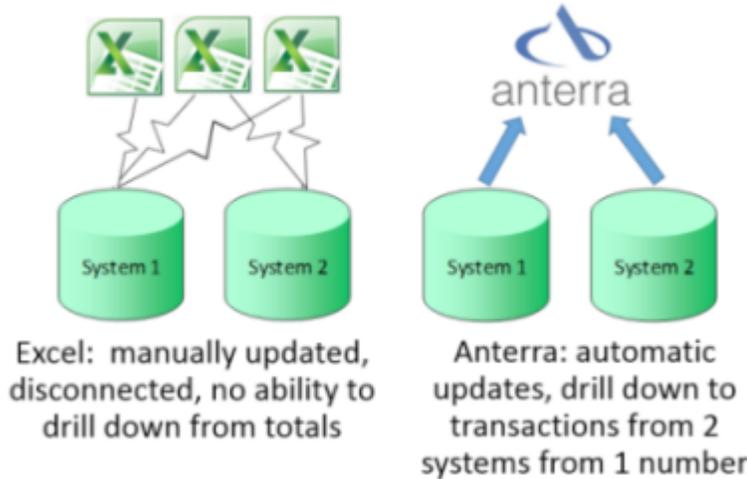
1. Data that is manually entered is out of date the second it is put in a cell. This is particularly true for financial statements. If you use Excel for financial statements you have to start over every time you find that an entry is missing.
2. You spend time creating spreadsheets instead of reviewing results and analyzing. Many spreadsheet users spent more time checking formulas than reviewing the report for its intended purpose. Excel turns you into a programmer creating and checking formulas.
3. Spreadsheets have a large risk of material errors. Typically spreadsheets aren't reviewed by anyone but their creator. Do a web search for "spreadsheet errors" and horror stories abound.
4. Spreadsheet errors creep in over time. If you carry forward last month's spreadsheet to this month you may miss the fact that someone overwrote a formula with a number or made a change on a linked sheet.

You might be thinking that you can't completely escape the use of spreadsheets because you have 2 separate systems to report from and can't link the data together. This is a common problem, especially if you have acquired or merged with a company on another accounting system.

The key to reporting across systems is an overarching reporting

system that can combine information from multiple databases and systems. At Anterra we've developed a cost effective reporting solution based on the best Microsoft reporting technology available today. This can significantly reduce the time your organization spends in spreadsheets increasing your productivity and making your organization more proactive.

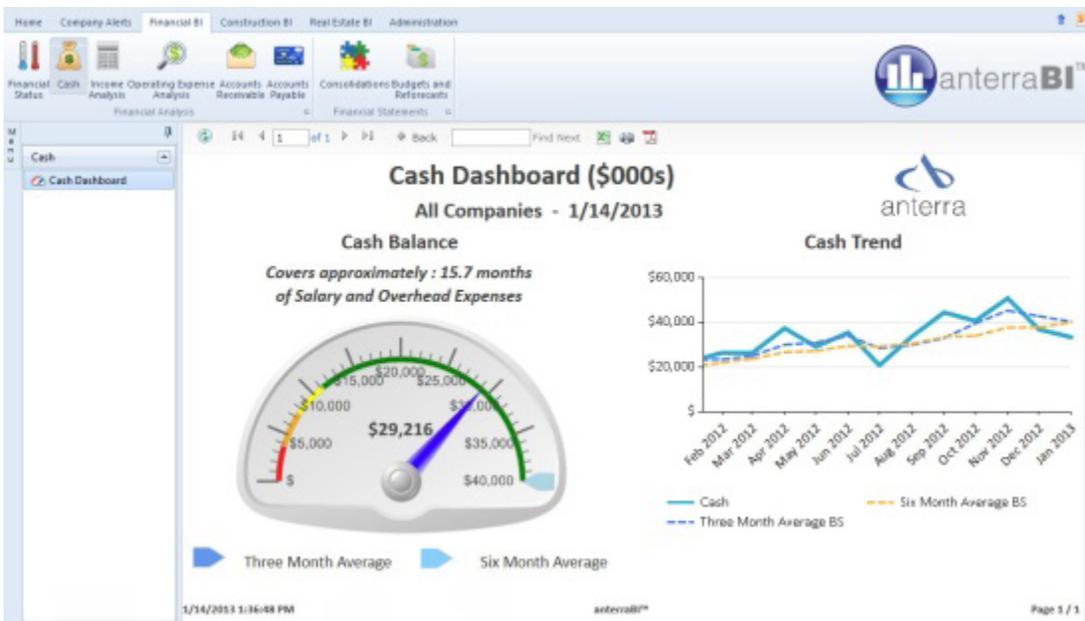
Options to Report Across Multiple Systems



You can report across multiple systems with an overarching reporting tool.

4. USE DASHBOARDS TO QUICKLY CONVEY KEY INFORMATION

Dashboards are designed to give you key information at a glance while you're moving down the road. Take this cash dashboard –



This shows you the status of your cash at a glance:

- a) Your cash balance today
- b) The number of months of salary and overhead run rate you can cover with this balance
- c) The trailing 12 month cash balance along with rolling 3 and 6 month averages (since cash is "lumpy" due to large deposits and check runs)

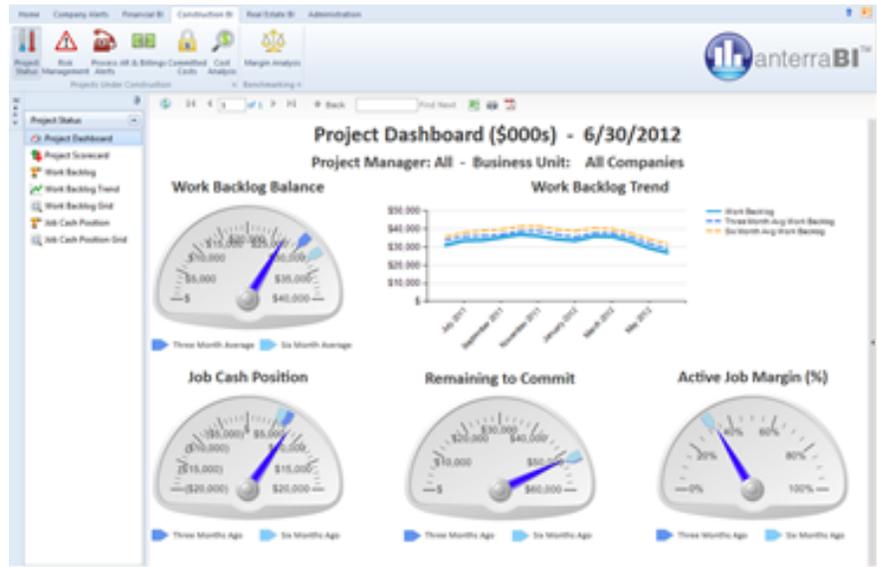


DRILL THROUGH
DASHBOARDS
AND REPORTS
ELIMINATE
PHONE CALLS
AND PROMOTE
DEEPER REVIEW
OF INFORMATION.

DASHBOARDS, continued...

Dashboards are a front end to more detailed reports – clicking on a graph or gauge takes you to your detailed balances by cash account.

Here's a construction example:



This shows you the key performance indicators for a construction company along with their 3 and 6 month averages:

- Work backlog – gauge and graph
- Job cash position – is your construction company financing jobs?
- Remaining to commit – shows uncommitted balances for in progress jobs
- Active job margin – how is your margin doing? You need to monitor this closely.

Dashboards can be a great help to executives and managers to quickly understand when things are going off course. Detailed reports can miss macro trends that are immediately apparent on a dashboard.

Scorecards are another useful tool that are effective in conveying information. "Traffic light" indicators based on individual company variance tolerances show where you are off plan.

| | Actual | Budget | Variance (\$) | Variance (%) | |
|--------------|--------------|--------------|---------------|--------------|---|
| Revenue | \$40,226,653 | \$34,057,648 | \$6,169,005 | 18 % | ● |
| Direct Cost | \$15,325,320 | \$13,544,305 | \$1,781,015 | 13 % | ● |
| Gross Profit | \$24,901,333 | \$20,513,343 | \$4,387,990 | 21 % | ● |



5. MOBILE AVAILABILITY OF REPORTS

The final recommendation we have to improve your reporting is to set up mobile access. This would allow your staff in the field or managers out of their office to view information on demand eliminating the emailing of reports. Anterra has found tremendous adoption of our browser based reporting. This allows client's construction and executive staff to access reports anywhere – all they need is a laptop or an iPad with an internet connection:



CONCLUSION

Improving reporting is a continuous and rewarding process. Improving reporting increases your company's productivity allowing you to handle more work with the same amount of staff. To see how Anterra has helped construction companies visit our [Customer Success Stories](#) page.

To learn more about how you can improve your reporting with pre-built dashboards, scorecards and drill through reports please contact Anterra at (832) 539-1400 ext 1 for more information. You can also email us at info@anterratech.com or visit our website at www.anterratech.com



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