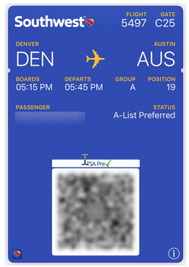
Leveraging BIG data from BIM 360 Field to track corporate trends.

SWINERTON BUILDERS

Information vs. Regular Data vs. Big Data

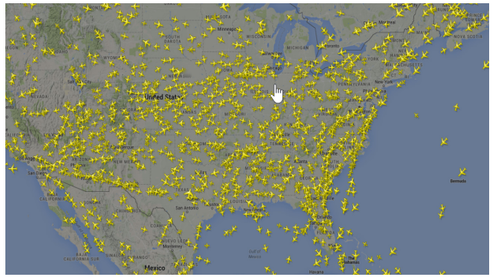
There is a wealth of information in the construction industry but not all of it is data. If your teams are using Stand-alone iPad apps, Excel Spreadsheets, or Word documents they are working with Information. The next step is to put all of that information into a database that is search-able, accessible and can be analyzed as a group. When you begin to combine multiple databases and analyze the data for trends and actionable data, you are on your way to working with big data.

INFORMATION



DATA

BIG DATA



Why the focus on Big Data?

We know that increased labor productivity and reduced risk are two key contributors to success within our industry. Our ability to collect, analyze, and respond to trends in our data in a pro-active manner ensures that we are focusing on our key performance indicators and on the path to success.

The tools we use to track and analyze our Data

At Swinerton we focus on using web-based programs with open API's to facilitate the exchange of information between our systems. Our core solutions for data creation and project management include Sage, P6, Autodesk 360, CMiC and Textura. The data from these solutions feed into a data mart which acts as our translation tool for managing all of the different types and sources of data. Our analytics tools pull the sorted and structured data from the data mart for our reports and dashboards.

Sage Estimating | ONLINE ORACLE PRIMAVERA P6 | CMiC | AUTODESK BIM 360 | AUTODESK BIM 360 Insight | Power BI

Swinerton Builders

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Items we Track and Analyze

Project Management Data

RFI's
Submittals
Change to Owners
No Change to Owners
Potential Changes (ASI's and Bulletins)
Billing Stats

Schedule

Start / Stop Dates
Milestones
Data Dates
Fragnets

Quality

Pre Installation meetings
First Work inspections
Follow Up inspections (different than ongoing inspections)
Deficiency Items
Work to complete items

Safety

Successes
Job Walks/ inspections
Issues / Problems