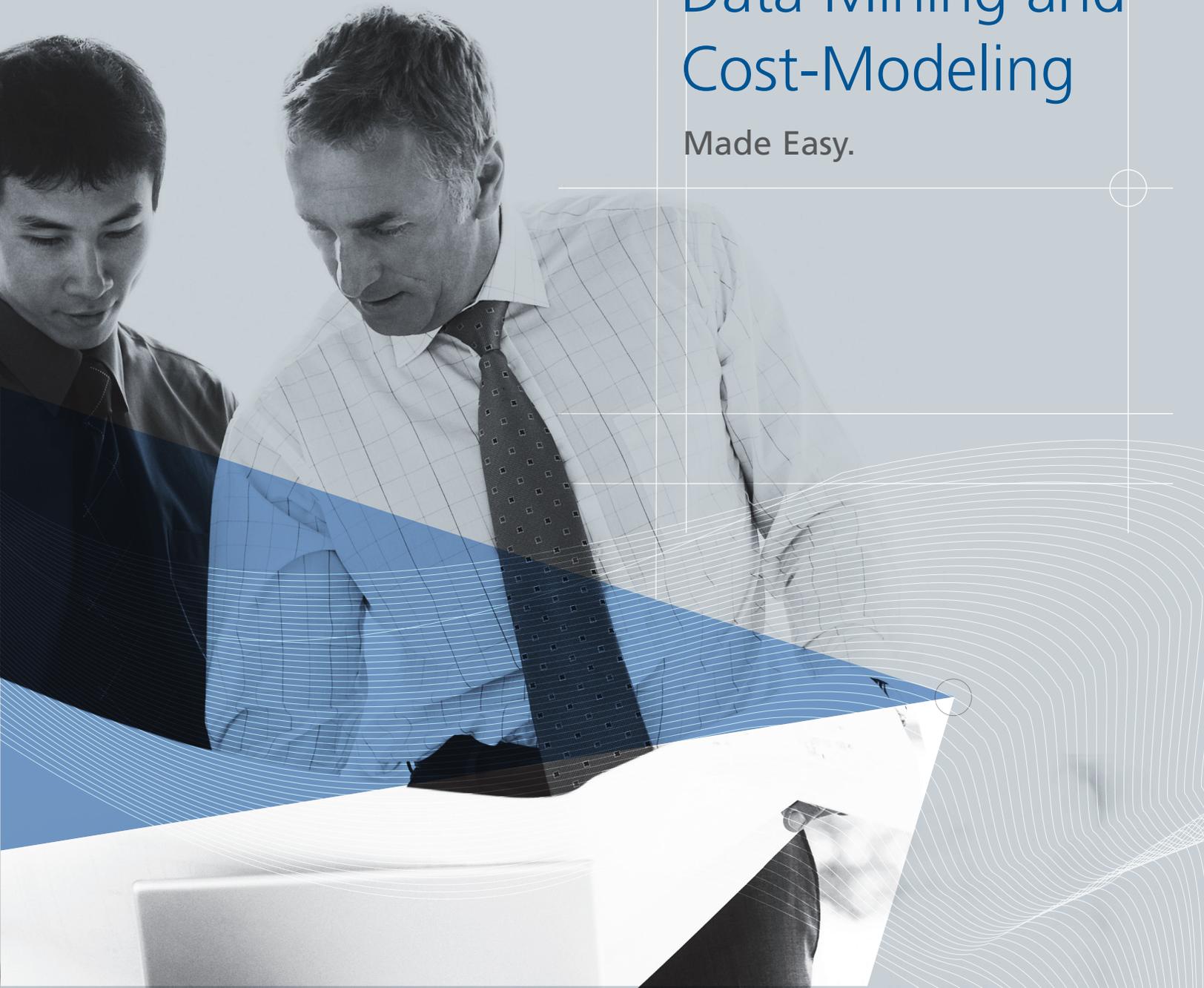




Data Mining and Cost-Modeling

Made Easy.





“Intellectual Property” (IP) isn’t a commonly used term in the Construction industry, but every company has IP in the form of past project experience. Every estimate you prepare for a prospective customer and every project you manage to completion contributes to this stockpile of valuable data.



Is this how you archive your past-project data?

Unfortunately, this wealth of valuable information is rarely being leveraged to its fullest potential, if at all. This happens at most organizations for a multitude of reasons, but most commonly:

- Staff retire or leave the organization, and with their departure goes that wealth of knowledge.
- Past project history is stored inefficiently in the form of folders in filing cabinets, spreadsheets sitting on laptops, or in many cases is not stored at all.
- If the information is readily available, staff doesn’t have the tools to analyze it in a way that could expedite the response to the current opportunity.

Quite often, initial project pricing has to be done with requirements that barely fill a napkin. Once the vague requirements have been gathered, then the guesswork begins. When formulating a “guesstimate”, companies typically have no statistical information available to them, and if the information is available,

they lack the tools to do anything with it. The result of this guesswork is typically a budget that is likely anecdotal at best, and not a true reflection of your historical performance. If that isn’t bad enough; the owner will always measure your performance against that initial budget.

If the scenario just described sounds like a situation you have found yourself in on more than a couple occasions, then ask yourself this:

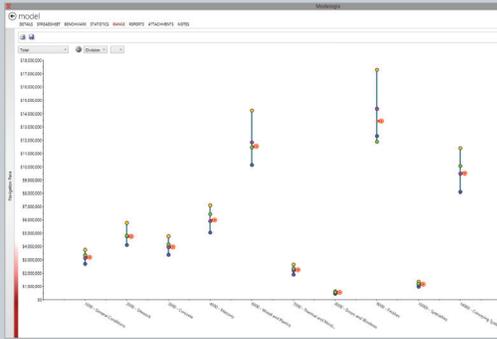
What if you could access all past project experience and quickly create accurate cost models based on your historical performance on projects of similar scope?

Now you can do that and more with Modelogix!

Modelogix is an enterprise software solution that allows you to mine data from project estimates and “as built, actual” costs, with prices normalized to the time and location of the current opportunity, to create fast and accurate early phase cost models, reducing your risk and removing a lot of guesswork.

“Modelogix is a critical component in our cost management toolkit. The ability to data mine costs across a large library of projects and on individual projects across multiple stages has proved invaluable in assessing design and construction contingencies, reducing risk and creating realistic early phase cost plans.”

– Dave Wells, VP of Preconstruction, Webcor Builders



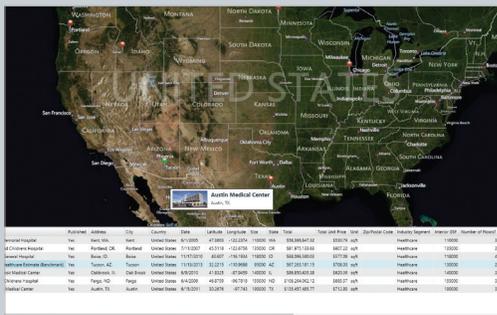
Visual Comparison

See how your cost model stacks up against past projects of similar scope. Identify cost outliers that provide opportunities for adjusting the model to fit the owner's funding constraints.

Quantity	Total Unit Cost	Total	Quantity	Total Unit Cost	Total	Quantity	Total Unit Cost	Total	Quantity	Total Unit Cost	Total
10000	328.54	\$3,199,299	110,000	624.40	\$2,864,240	135,000	17.82	\$1,768,547	118,000		
2000	84.20	\$1,683,997	110,000	123.41	\$4,149,999	100,000	46.20	\$1,777,659	118,000		
3000	3.66	\$1,030,033	110,000	8947.43	\$1,396,533	4,000	597.49	\$4,760,311	3,000		
4000	54.67	\$1,947,667	110,000	640.96	\$5,033,846	135,000	153.20	\$7,098,400	118,000		
6000	154.62	\$1,097,225	110,000	192.86	\$16,523,237	100,000	1105.24	\$14,221,404	118,000		
7000	103.04	\$2,204,188	110,000	117.18	\$1,947,773	135,000	119.63	\$2,950,641	118,000		
8000	84.82	\$10,662	110,000	54.10	\$40,514	135,000	54.89	\$63,321	118,000		
9000	101.63	\$13,736,414	110,000	111.91	\$12,216,644	100,000	110.03	\$12,285,919	118,000		
10000	110.29	\$1,121,686	110,000	58.03	\$971,387	135,000	119.12	\$1,366,636	118,000		
11000	385.99	\$9,456,662	110,000	873.74	\$8,111,644	135,000	164.38	\$1,388,748	118,000		
12000	390.82	\$1,918,341	110,000	260.04	\$2,710,683	135,000	169.72	\$2,617,974	118,000		
13000	107.33	\$3,006,415	110,000	623.40	\$2,574,465	135,000	126.77	\$1,614,500	118,000		
Total	110,000	\$65,716	\$6,610,237	118,000	\$30,719	\$38,388,847	135,000	\$60,222	\$81,975,134	118,000	

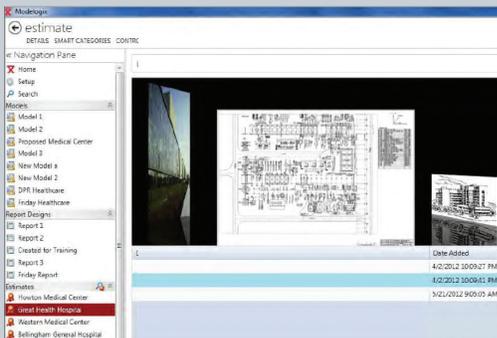
Analyze Your Cost Model

View and compare your cost model side-by-side with the project estimates that formed the basis of the model.



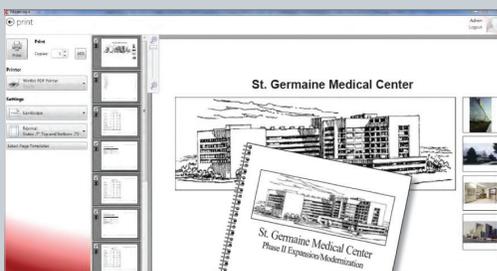
Powerful Search Engine

Use selected project attributes to search all of your historical data to find the right mix of projects for your new cost model.



The Big Picture—With All the Details

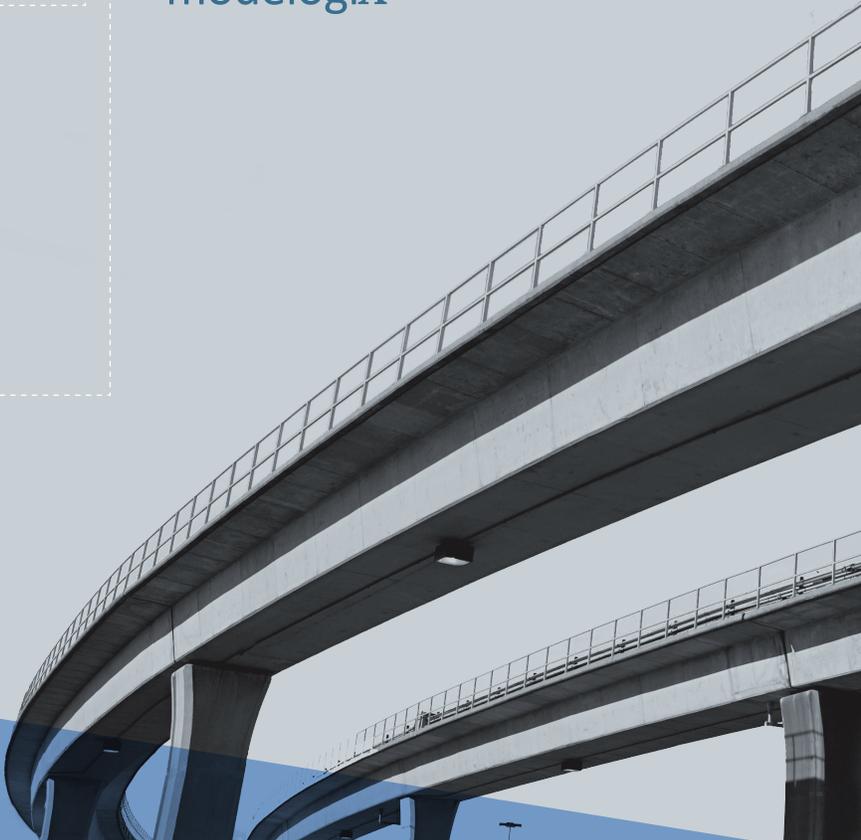
Not only do you have access to your historical data, but Modelogix also tells the complete story for each project by including all relevant supporting documents.



Presentation Counts

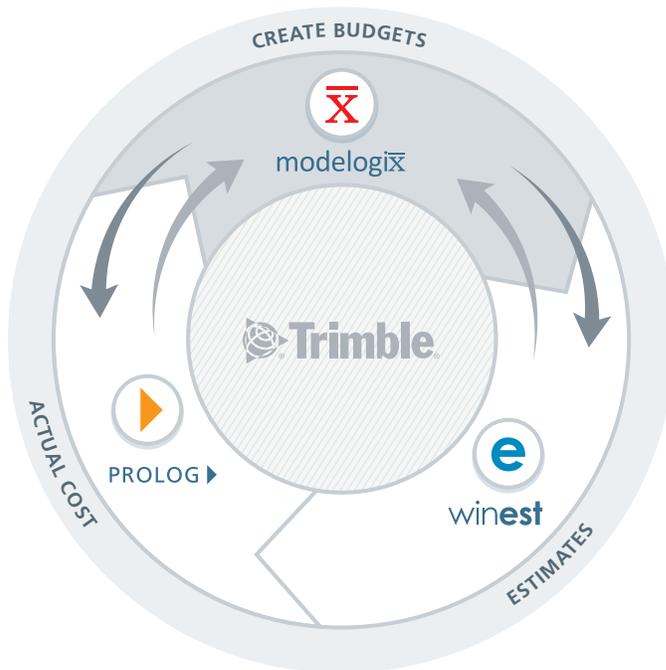
Modelogix enables you to easily design and print a proposal that reflects your company's quality, professionalism and attention to detail.

modelogix



“Closed Loop Integration”

The best way to leverage historical information is to create a continuous cycle or “closed loop” integration. To begin the cycle, a feasibility budget is developed that is based on actual cost information from past projects. The conceptual estimate is then moved to the cost estimating solution to prepare the detailed estimate based on owner specifications. The detailed estimate forms the basis for your budgets in your project management solution, and this data exchange is automated with Prolog. When the project closes, the actual cost data flows back into Modelogix for use on future projects.



The tight integration of information allows contractors to take full advantage of their intellectual property and work smarter based on lessons learned from previous projects.

Features and Benefits

- **A clean and intuitive user interface** making the powerful software approachable for users of all skill levels.
- **Model analysis** based on the work-breakdown structure of your choice, Masterformat, Uni-format, Job Cost Phase, etc.
- **Metrics feature** provides more than twenty customizable data types—allowing you to analyze your cost model in ways that are most meaningful to your company.
- **Search feature** makes it quick and easy to find past projects stored in your Modelogix database.
- **Inflationary cost indices** allow you to normalize costs in all your past projects, to account for fluctuations based on a location or time.
- **Smart categories** allow you to apply key project attributes to past work—making thousands of past projects stored in the database easy to find.
- **Powerful slice-and-dice data modeling capabilities** let you combine any mix of work breakdown structures (WBS) in one view.
- **A built-in proposal designer** lets you easily generate reports and proposals that are polished and professional.
- **The completed cost model** can be used as the starting point for your detailed estimate.
- **Use your cost model** to benchmark your detailed final estimates, identifying any omissions or errors before it's too late.



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