

or adjust models in "helpful" directions only. Lehman Brothers in 2007-8 (see page 180 of the [Examiner's Report](#)) and [J.P. Morgan in 2012](#), for example, tweaked their internal models to reduce apparent risk.



Joe Pimbley

The focus on reaching *desired* end results rather than *true* and *accurate* results is certainly a misuse of financial models, but there's a nuance to consider. To judge truth and accuracy, one must inspect the model results and determine somehow whether the results "seem right."

It could well be that the loan underwriter who watches competing lenders make loans that he had rejected will legitimately question the accuracy of his own bank's model. But how does one distinguish legitimate questioning of the model result from abusive adjustment of the model?

There is no simple answer other than to rely on the expert judgment of the quantitative model developer, and for all analysts, users and management to adhere to a principle of good faith. This good-faith standard is the commitment to truth and accuracy.

Senior executives of the institution must understand that models are, by nature, malleable, given their numerous judgments and assumptions. With this understanding, the

executives must then set, proclaim and maintain a culture of good-faith, unbiased model construction and use.

The best uses of quantitative models are (1) the learning, intuition and judgment one develops while building the model; and (2) the testing for completeness and quality of the firm's data that exercising the model provides.

By virtue of assumptions and insufficient information, many financial models are less useful as generators of precise numerical results (e.g., for bank capital and loan default probability). When it's imperative to have such numerical model results, then the principle of good-faith model construction is critical.

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