

Technology Providers Jump into Stress-Test Fray

Solutions proliferate, but no single one will fit all firms or all situations

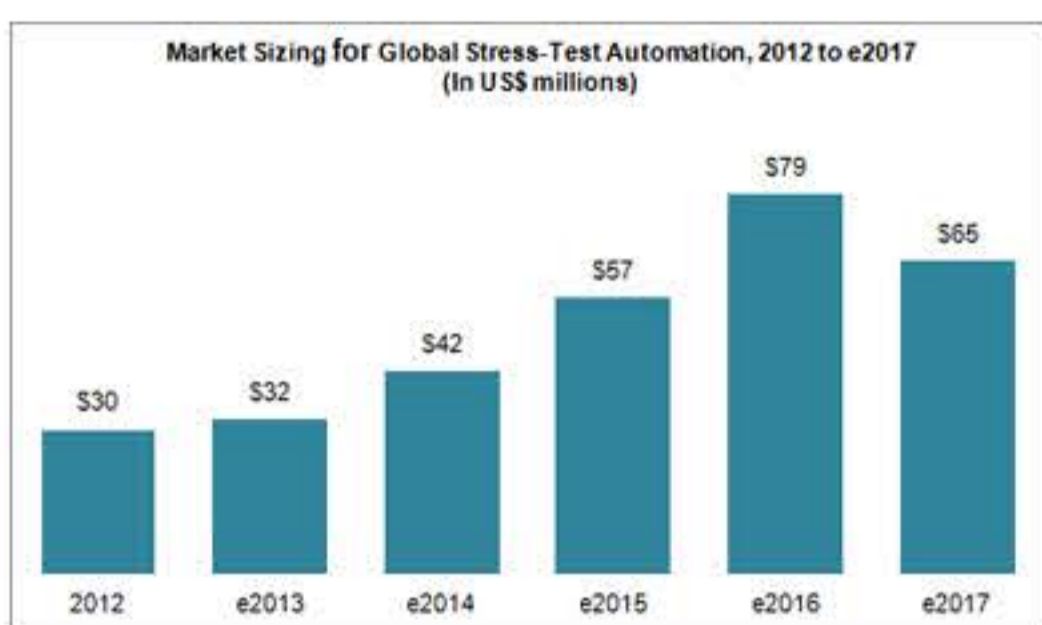
Thursday, November 21, 2013, By Katherine Heires

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U.S. stress testing mandates are expanding in breadth and scope, prompting more and more banks to seek technology solutions and assistance.

Most of the operational burden so far has fallen on the biggest institutions -- in November, for example, the Federal Reserve, in its latest round of stress tests, added a new, counterparty-risk focused test for the largest banks, along with requiring U.S. subsidiaries of several foreign banks to participate in stress tests. Earlier in the year, banks with \$10 billion to \$50 billion in total assets were added to the stress test mandate list, effective in 2014, and the regimen is being adopted in some form by institutions in many size ranges.

Technology vendors, meanwhile, are offering a profusion of platforms, tools and software, often as additions or enhancements to broader risk management and analytics offerings, designed to help automate and streamline the stress testing process. Among the latest offerings -- and sampling of those in or coming to the market -- are new or updated solutions from Moody's Analytics, OpenGamma and Trepp.



Source: Aite Group

"As I look across the banks, they are making sizable investments in their stress testing capabilities," says Luther Klein, managing director in the risk management practice at consulting firm Accenture.

He cites, among reasons for the push, the penalties paid by the banks that failed earlier stress tests. "They can be fairly severe," Klein says, involving limits to dividend payouts, for example, and capital actions. What's more, stress testing requirements have evolved to require more statistical

capabilities in forecasting efforts. Starting next year, Klein adds, banks conducting stress tests will have to be prepared for a greater focus on liquidity forecasting.

No One Solution

Adam Girling, a principal in the financial services office at Ernst & Young, which now goes by the brand name EY, emphasizes that "no single system can cover all aspects of the stress testing process," and given the process' complexity across various business units, "we will never have a push-button solution."

The good news, Girling notes, is that vendors are catching up and developing solutions "around where the requirements have landed." Updates to stress testing requirements continue, with U.S. banks now having to consider the Basel III capital rules, and as a result, "the need for investment in stress testing-related technology is universal across all firms."

In general, stress testing entails conducting forecasts for credit risk management and capital planning, and should be tailored to reflect a bank's unique vulnerabilities to economic factors that affect exposure and risks. Thus, it is critical that banks work with technology -- in some instances, highly specialized technology -- that can address specific stress-test needs as well as overall risk management efforts.

Choosing what works, tailored to a specific institution's business mix and characteristics and its ability to aggregate and integrate the necessary data and technology, can be daunting, as was covered in two previous [www.garp.org](#) articles: [Stress Testing and Technology](#) [Stress and Stress Testing Solutions: The Supply and Demand](#).

Conversations with representatives from three companies now in the middle of the fray provide more insight.

Translating Policy into Analytics

Trepp LLC, in business since 1979 and named for its founder, has long been known as a provider of data, analytics and technology to the commercial mortgage-backed securities and commercial real estate markets. In 2010, Trepp acquired Foresight Analytics, providing entrée into the banking sector. Foresight had a team of analysts and programmers led by Matt Anderson, who is now lead architect of Trepp's banking models.

According to Manus Clancy, senior managing director at New York-based Trepp, the firm developed its own capital-adequacy stress testing module -- within the Trepp Bank Navigator product -- in early 2012, soon after results were reported for the top 19 banks. The module is not sold separately and is part of the firm's risk management platform for banks.

"In 2012, with the release of specifics about macroeconomic-variable and capital-ratio targets, we pivoted to make our stress testing models tightly correspond to the regulator guidance," says Clancy. As a matter of course, Trepp meets regularly with the Federal Reserve, other regulatory agencies and congressional staff to stay up to date.

Says Clancy, "We aim to maintain the model to be compliant with current regulations, so clients don't have that burden year after year."

The platform utilizes 500 separate algorithms and calculations for forecasting income statement, balance sheet, loan losses and capital ratios for the three Dodd-Frank mandated scenarios. Banks can also enter their own assumptions or micro-economic scenarios and create "break the bank" scenarios.

For banks that need more granular commercial real estate or multifamily data to calibrate their own internal models or to create a bottom-up model, Trepp has over 15 years of loan-by-loan CRE/multifamily data, consisting of more than 100,000 assets and 250 pieces of data per loan including updated net operating incomes, debt service coverage ratios and loss data.

The stress testing code is delivered to clients over the Web; it runs on Microsoft SQL Server technology. Clancy says Trepp always tries to build flexibility into its products to allow customization and experimentation by clients.

Clancy says banks in the \$5 billion to \$50 billion-asset range are "our sweet spot." While Trepp is a technology, and not a consulting, company, its customer support team often becomes consultant-like in the face of stress testing's challenges and complexities.

"To some degree, we feel like SAT prep guys," Clancy says. "It's part of the value-added support of our product."

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