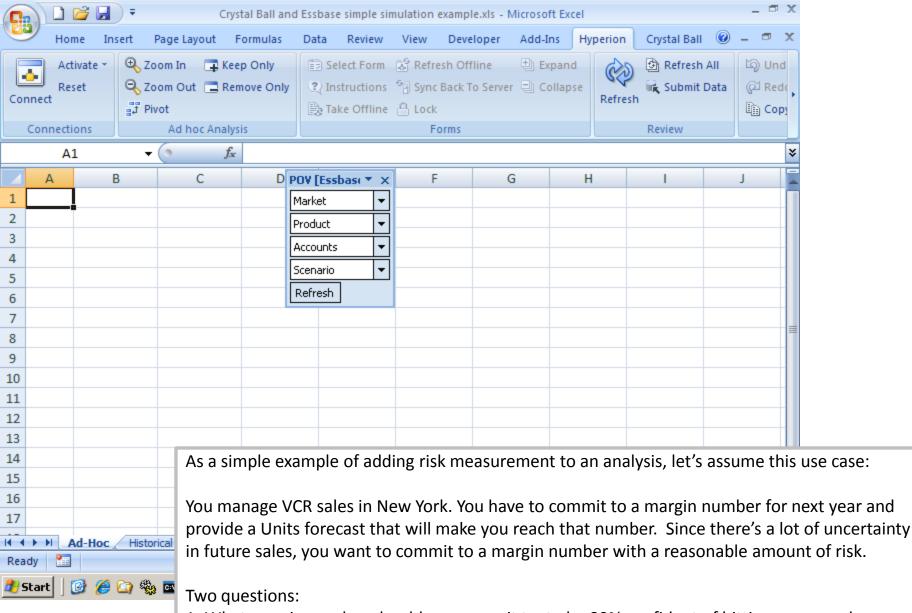


ORACLE

Adding Risk Measurement to Enterprise Performance Management Analytics

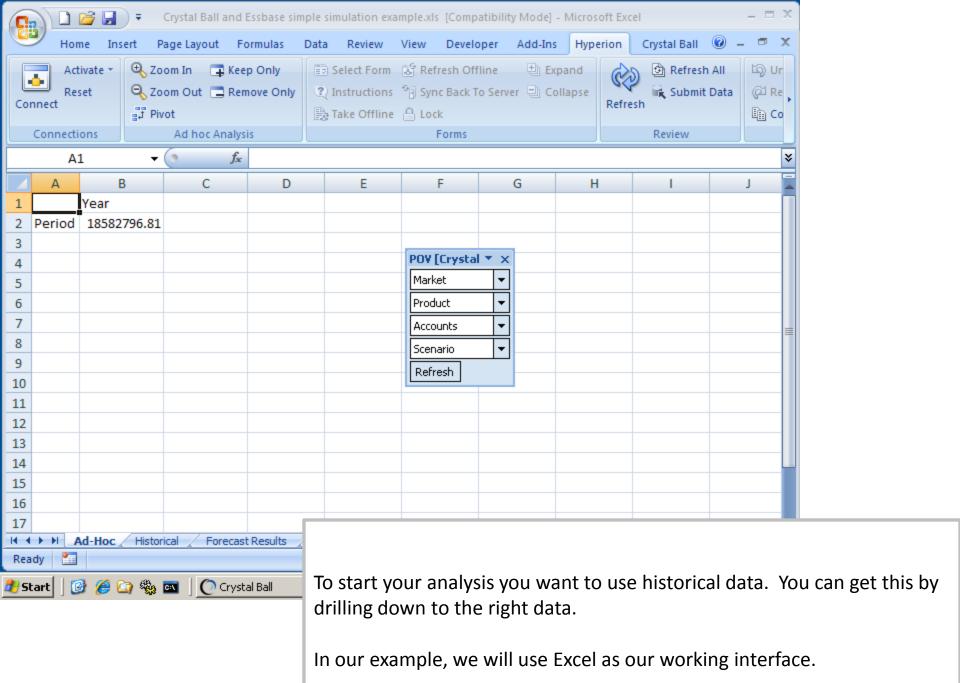
A short demonstration of Oracle Crystal Ball and Hyperion Essbase

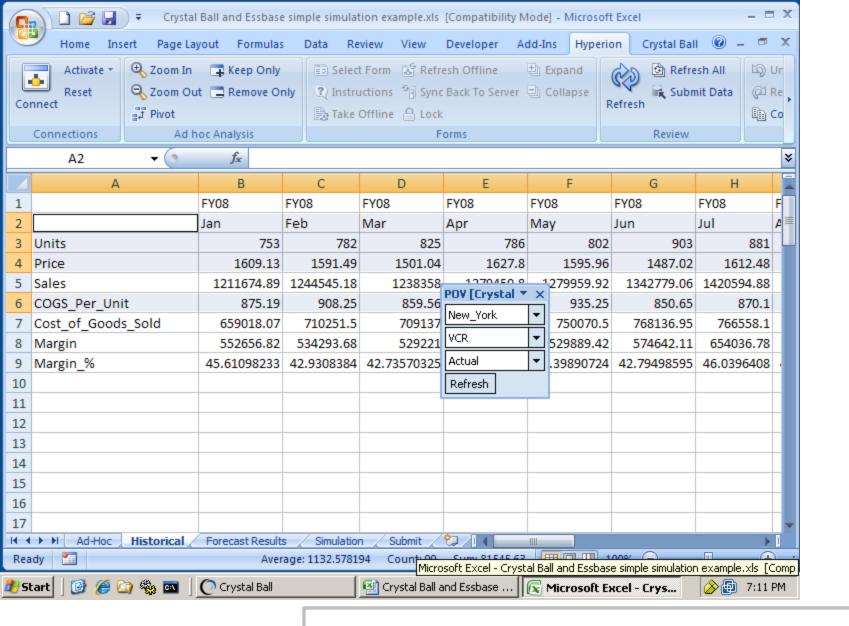


1- What margin number should you commit to, to be 80% confident of hitting your number

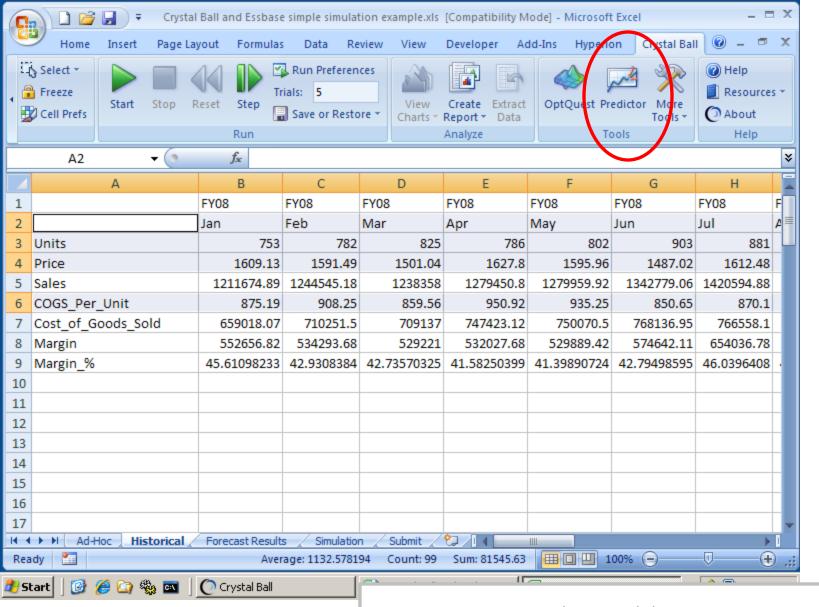
2- How many units should you forecast to get to that margin?

Let's show how a quick risk analysis easily answers those questions without changing your daily workflow.

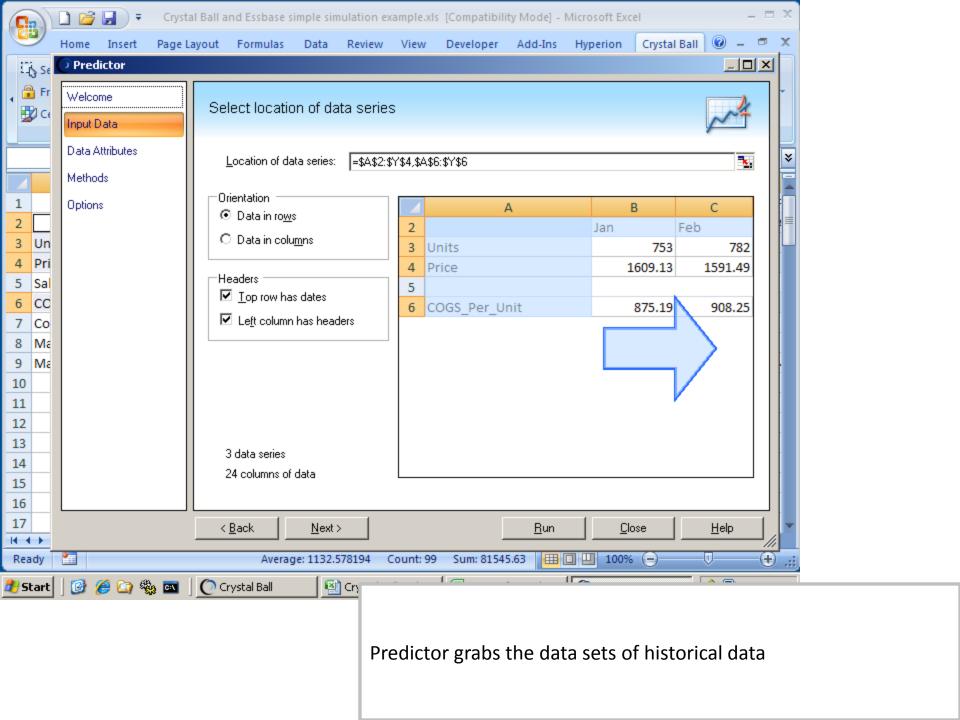


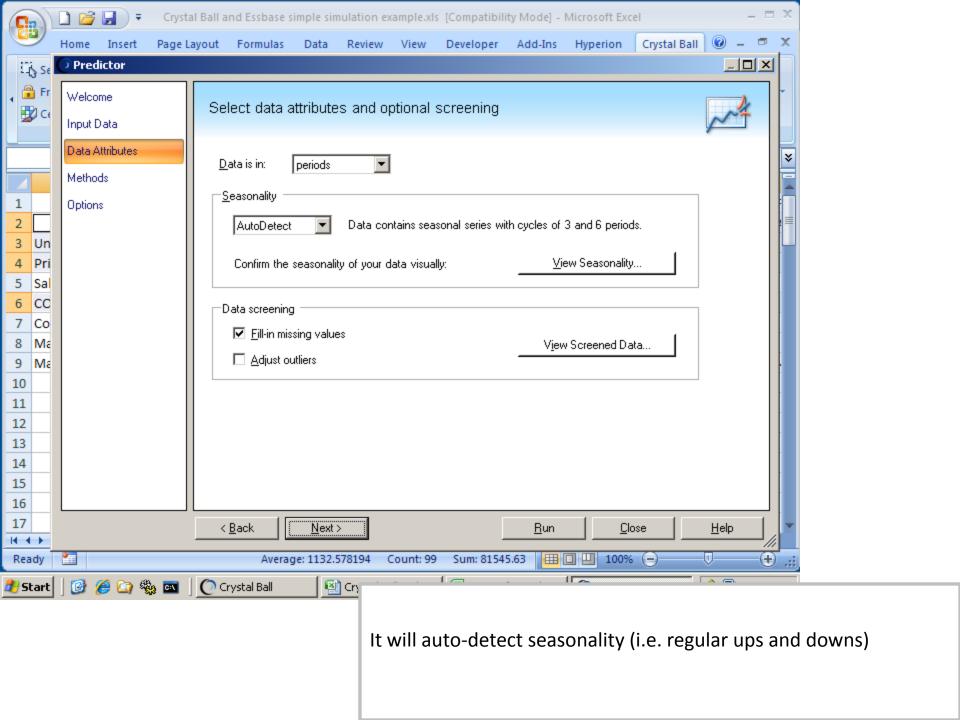


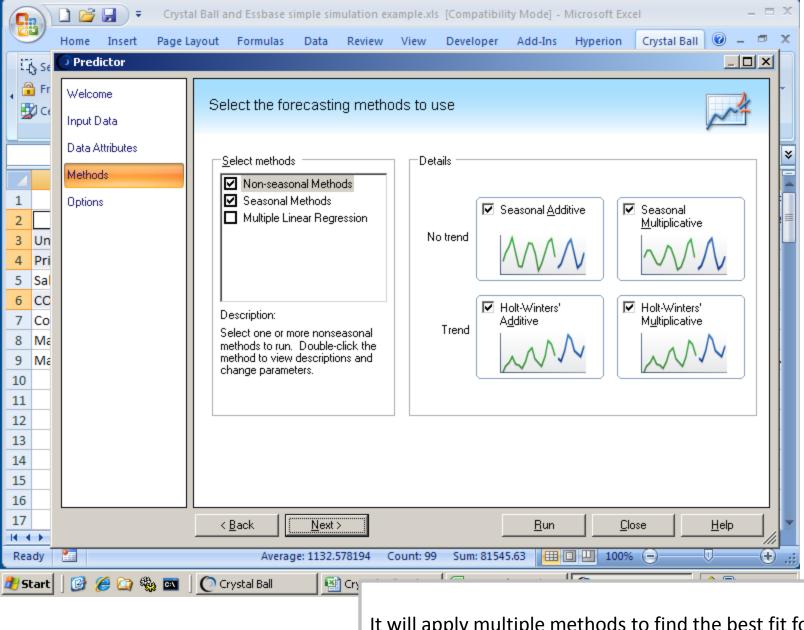
Using an ad-hoc analysis, we drill down the relevant data for our region.



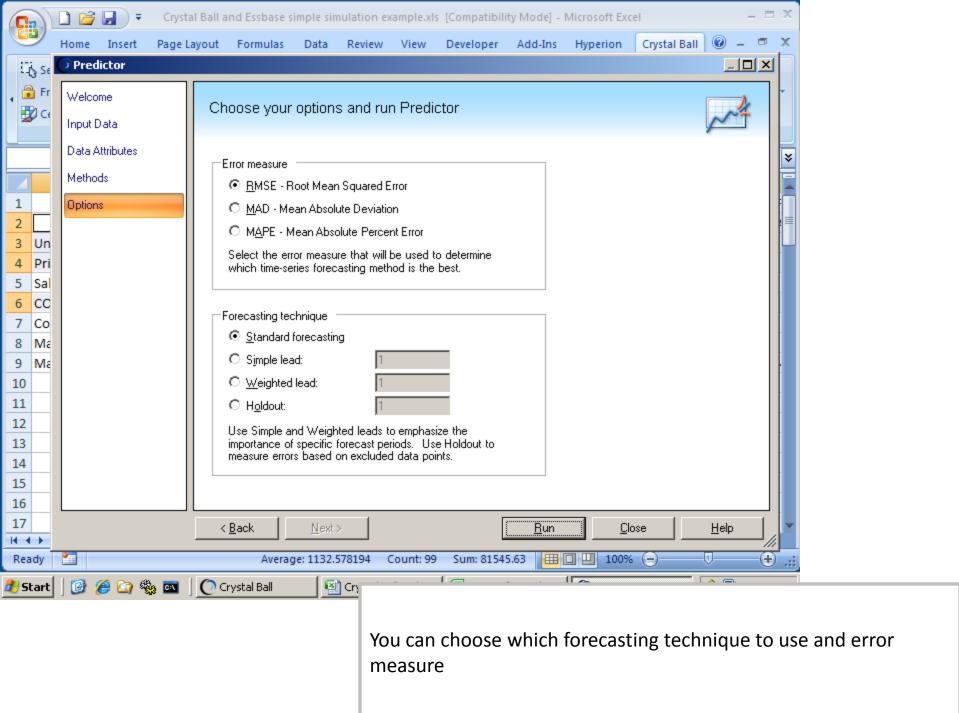
Since we want to use historical data to get a sense of what the future could hold, let's run a time-series analysis on the data to forecast the next quarter. We use a tool called CB Predictor.

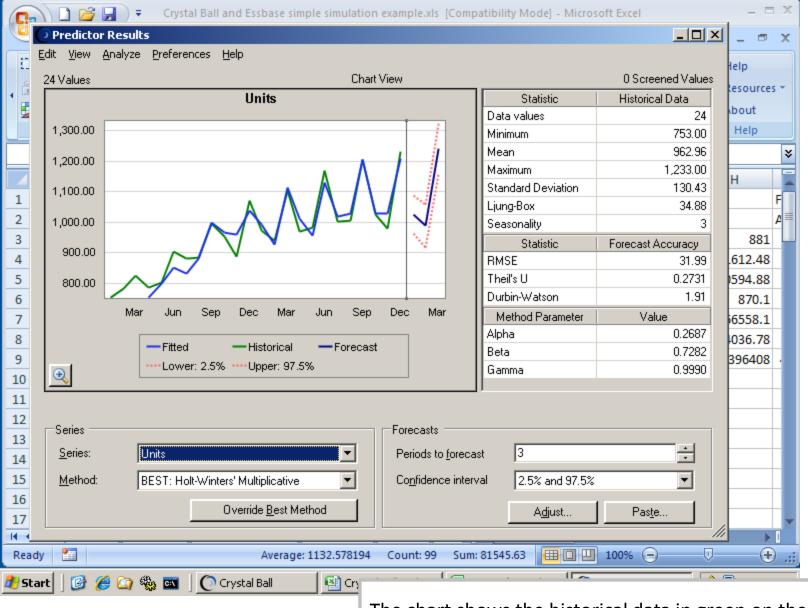




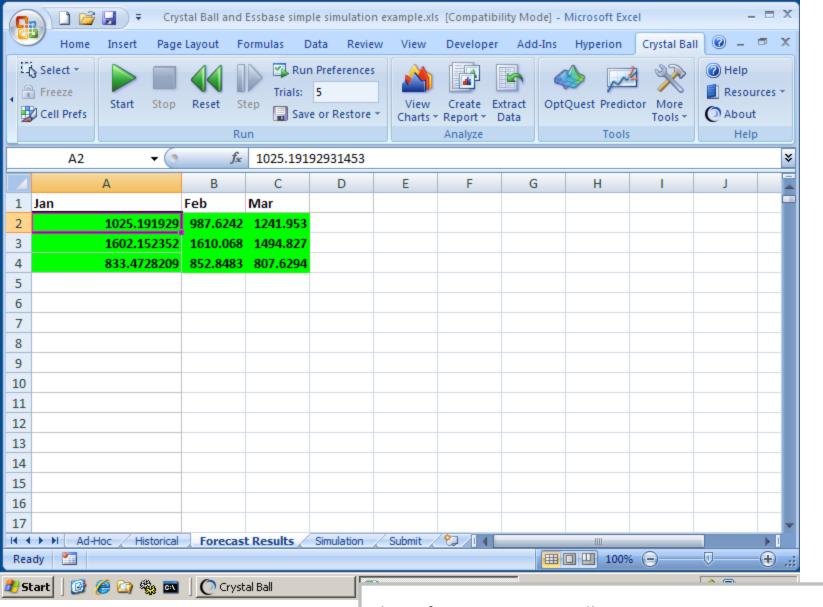


It will apply multiple methods to find the best fit for the data and then use that method to forecast the next quarter

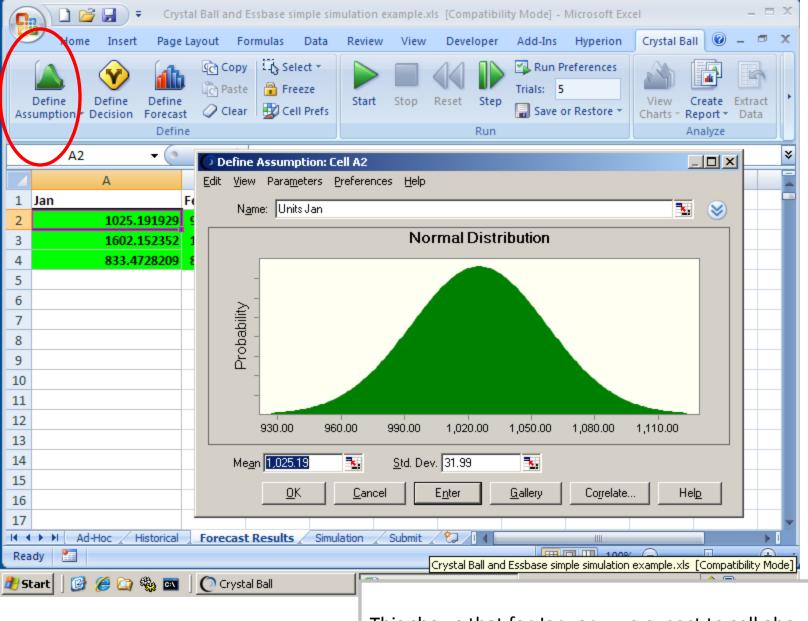




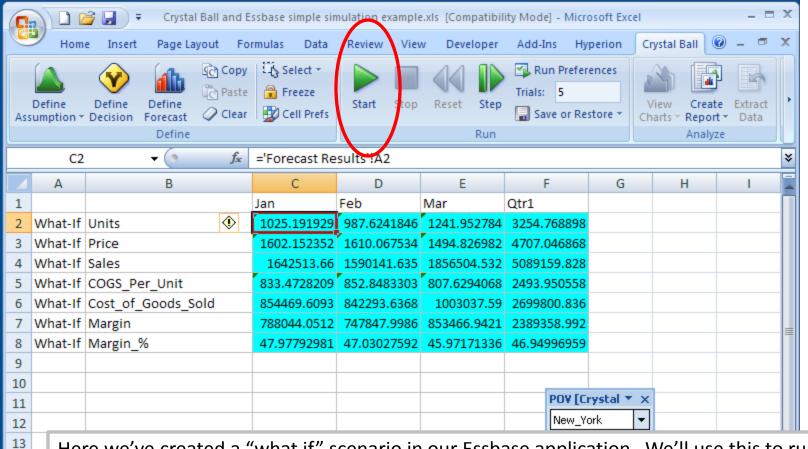
The chart shows the historical data in green on the left, with the blue line representing the best fit method. The darker blue link on the right shows the forecast for the next quarter based on that method, bounded by a confidence interval.



The software automatically outputs our next 3-month forecast and creates input assumptions for our risk modeling. The assumptions are defined as ranges of values, instead of single point estimates. This will be useful in a moment when we run our risk analysis.



This shows that for January, we expect to sell about 1025 units, but there's a range around that forecast. Could be as little as 930 or as much as 1110



Here we've created a "what if" scenario in our Essbase application. We'll use this to run our analysis before committing to a margin number.

What we're going to do now is run 500 different trials, each using a different input from our variable assumptions. What this will give us is a complete range of all the possible outcomes – the forecast – from which we can compute our statistics and answer our questions:

- 1- What margin should I commit to, to be 80% confident of achieving it
- 2- How many units should I then forecast

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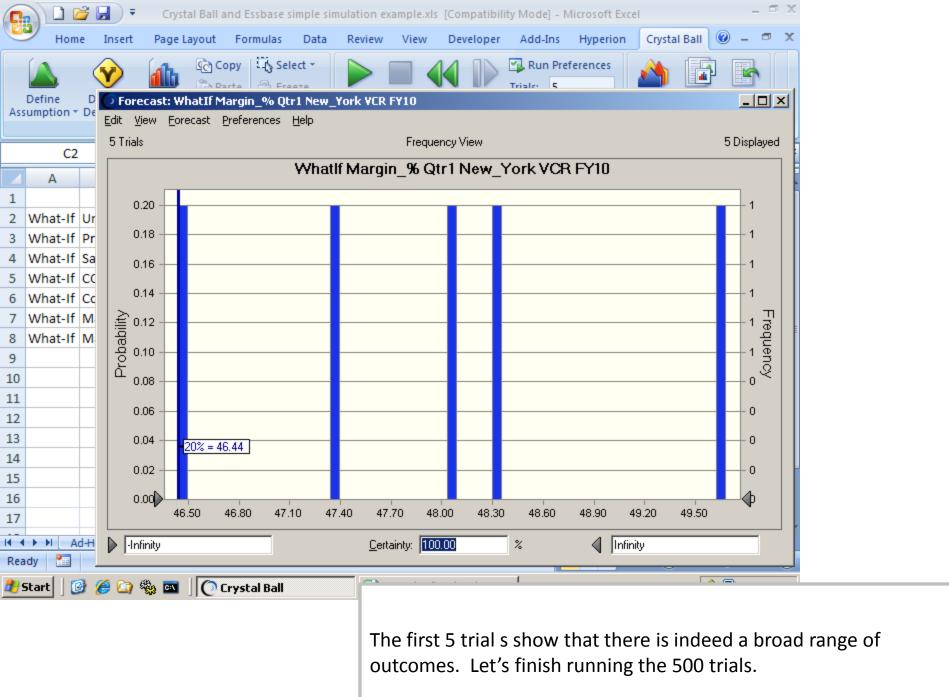
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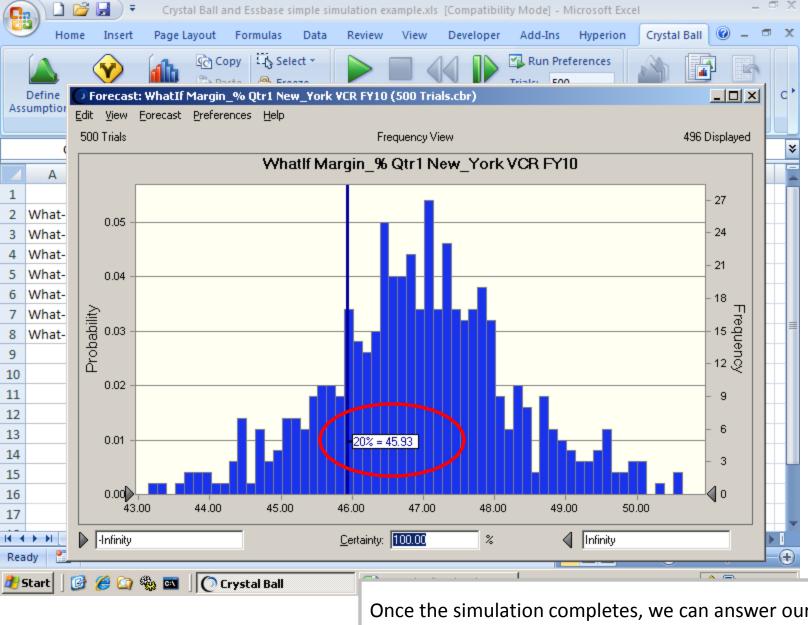
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Ready

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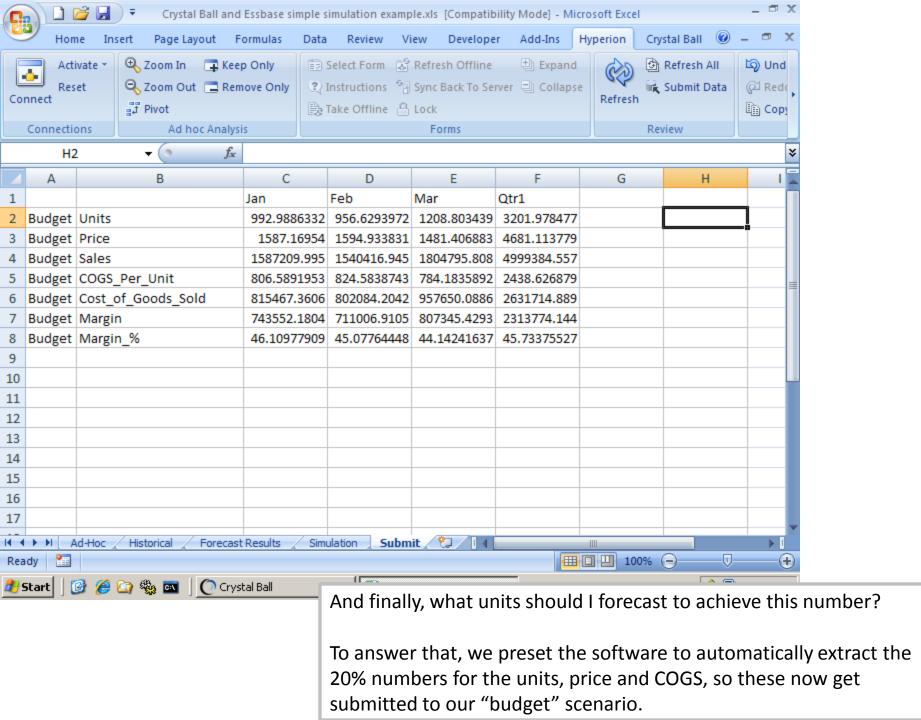
Let's run what's called a Monte Carlo simulation to automatically calculate all those trials.





Once the simulation completes, we can answer our first question:

What margin should I commit to, to be 80% confident of achieving it? The answer: 45.93%



 In our demonstration, we've just seen that adding the ability to measure the uncertainty

 the risk – around forecasting numbers will improve the accuracy and confidence around those numbers.

FOR MORE INFORMATION...



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