



PORTFOLIO DECISIONS

Spec Sheet: Vantage™

Description: Manual selection Portfolio Management and Integrated Business Planning software.

Database: Multi-year, multi-metric descriptions of all projects (includes assets, product families or subfamilies, projects, etc) to be considered are kept in an Excel table. Metrics are not pre-chosen; the metrics to be used are completely up to the user. Multiple probabilistic outcomes may be incorporated into any project, each outcome with an associated weight. No limits on the number of projects, metrics, outcomes, or years of data.

Targets: Allows targets to be set for any metric (input, computed, or filtered) in any time frame. Targets can be defined by formula, by reference, or manually. Upper and/or lower limits may be set for any metric. Because Vantage has no optimization, targets are for reference only.

Selection Method: Projects are selected manually by indicating the time period when the project should begin and the desired working interest in the project.

Probabilistics: Given probabilistic (multiple outcome / range forecast) project input, Vantage can generate probabilistic output. The program uses Monte Carlo simulation to describe confidence bands (outcome sensitivity) and the probability of achieving targets for any and all metrics desired.

Selection Constraints: Selections available for each project can be restricted to certain time periods. All other selection constraints are for reference only. If a manual selection exceeds the selection constraint limits, the selection is color coded as a violation, but the resultant portfolio calculations are correct.

Computed Metrics: New metrics may be calculated from the metrics contained in the database. (Input metrics). This extends the range of results available and analyses possible considerably, and allows metrics to be calculated on an aggregate basis that are not simply the sum of project metrics.

Model Extension: Vantage's Excel platform allows an infinite variety of custom sheets to be added to the model, considerably extending its analysis capabilities. Custom financial sheets, reserve calculation routines, company report forms, etc. can be added at any time.

Graphics: All metric results may be viewed in graphic form, including targets, expected value results and probabilistic results. Results may also be viewed broken down by attribute.

Scenario Analysis: Selections and selection timing and ownership can be changed and results viewed in seconds. Prices, costs, etc. can also be quickly changed via the use of custom calculation sheets.

Dependencies: Vantage retains those dependencies from Perspectives that are affected by probabilistic outcome:

1. *General Dependency:* Performance at D (dependent project) depends upon the probabilistic outcome at I (independent project).
2. *Global Dependency:* A number of projects are tied together in a correlated manner while remaining non-correlated for a second variable. For example, price can be correlated while geography is not.
3. *Self:* Outcomes of a project with a large number of repeats are imperfectly correlated with earlier instances of the same project.
4. *Statistical:* D and I are correlated by a factor between 0 (not correlated) and 1(perfectly correlated).

Platform: Microsoft Excel is used for the client interface. Vantage functionality is implemented with custom software accessed through the Excel ribbon structure. This combination allows users to extend their model via Excel operations as well as access the robust characteristics of a portfolio tool from the Vantage Ribbon.

Drill Down: Aggregate results can be viewed split out by any attribute assigned. There is no limit to the number of attributes that can be associated with a project. The input data or the aggregate results can also be viewed one attribute at a time, i.e., we can quickly view only the elements associated with one country, etc.

Utilities: Vantage contains a number of utilities to make analysis easier, including: selection comparison, a results saving and retrieval routine and stochastic aggregation of projects and/or portfolios.

TECHNICAL REQUIREMENTS

- ▶ Vantage is a desktop application which requires installation on the user's desktop.
- ▶ Hardware: Vantage can run on any PC capable of running MS Office 2007 or 2010 32-bit software
- ▶ Memory: Recommend 4 Gig Ram
- ▶ CPU: Recommend 3GHZ multi-processor
- ▶ OS: Windows 7 or XP (32-bit or 64-bit).
- ▶ Required Software: MS Office 2007 or 2010 32-bit. Vantage will not run on MS Office 2003 or earlier. The initial release of Vantage is 32-bit capable. By 2012 we anticipate releasing a 64 bit version
- ▶ Licensing: Vantage can be licensed to a specific user on a specific machine or licenses can be managed via a license server.

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