

PanoVista.co LLC

Innovative Data and Analytic Solutions

Bob Leaper, President

TSAM BOSTON PERFORMANCE MEASUREMENT AND INVESTMENT RISK

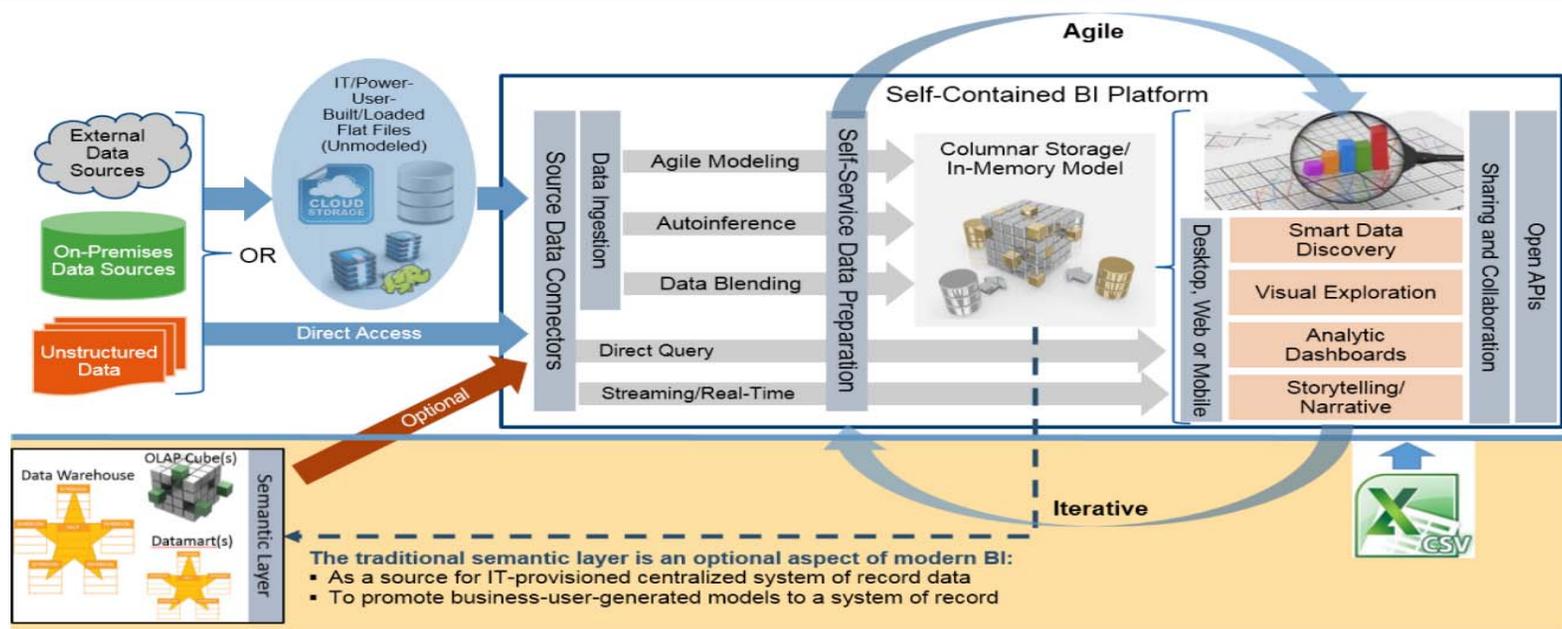
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Data Drives Analytics

- Performance Measurement, Attribution and Risk are data dependent
 - Data Quality is the core foundation of accuracy
 - Data Visualization helps make the numbers more relevant
 - New approaches and technologies are changing and improving the way businesses use data for competitive advantage
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Gartner: Modern BI and Analytics



BI = business intelligence; OLAP = online analytical processing

Source: Gartner (October 2015)

PanoVista.co and Partners

PanoVista.co: Data and Business Advisory Services and Select Solutions Partners, including:
Reference Data Hub, Financial Hadoop Datastore, Data Governance



Investment Analysis and Portfolio Construction, Financial Text Sentiment, Fixed Income Attribution



Systems Architects, Data Scientists and Offshore Development



Goal: Increasing Analytics Business Value

Performance Examples

Descriptive

- What are our exposures & returns?
- What are our attribution and risk results?

Diagnostic

- How effectively is the investment process being implemented?
- What needs refining?
- Why are we winning or losing mandates?

Predictive

- What impact will today's events have on our assumptions?
- What are the projected fund flows 6 months out? In 12, 18 months?
- What unknown risks do the stress tests indicate?

Prescriptive

- What products and strategies should we add, expand or remove?
- What is the current investment Regime and how do we adjust within the mandate to remain in the top percentile?

Plus:

- Open source platforms reduce traditional license fees, sometimes significantly
- True cloud deployment (S/P/I/aaS) elasticity lowers CapX and implementation time/expense
- Cloud security has improved, and continues to improve, dramatically

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