

Data Visualization Choices

What, When, and How?

Paul Turley Mentor, SolidQ SQL Server MVP

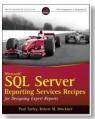




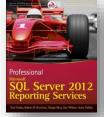
Presenter Introduction

Mentor
BI Solution Architect
Microsoft certified consultant & trainer
Author

















Expectations

This session is non-technical by design

...it's about choosing what tool to use rather than specifically how to use each tool

User Needs and Wants

Operational Dashboard Easy-to-use through Complex Analysis **Drill-down to Details Seamless Integration Self-Service Executive Dashboard Business Analysis Custom Developed Solution Key Performance Indicators Ad-Hoc Reporting Business Scorecard Report Navigation Balance Sheet IT** Assisted Report **Cross-Drill**

what tools provide these capabilities?

Establish User Roles & Use Cases

User Roles

- Executive Leaders
- Business Unit Leaders
- Department Managers
- Business Analysts
- Operational Users

Use Cases

- Use prepared dashboards
- Create & publish team reports
- Browse & analyze business metrics
- Perform mobile analysis
- Prepare presentations
- Receive proactive alerts



Products and Platforms

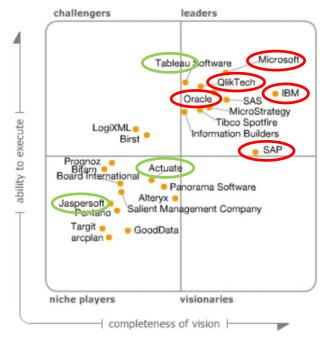
in the industry

Vendors have different approaches to BI solutions:

- Complete, packaged software solutions that include semantic models & reporting tools
- Programmable reporting tools
- Best-in-class ad-hoc visualizations

Microsoft BI offers a very strong semantic model platform paired with some good reporting & visualization tools

Gartner Magic Quadrant for Business Intelligence and Analytics Platforms - 2013



As of February 2013

Source: Gartner (February 2013)



Products and Platforms

in the Microsoft ecosystem

Semantic / Data Layer

Visualization / Presentation Layer

One tool may not meet all your user and business needs

Using too many tools is confusing & complicated



Relational data marts



Multidimensional SSAS



PowerPivot



PowerPivot n SharePoint



Tabular SSAS



/ Excel Services



Reporting Services





(Excel or SharePoint)



Mobility*



After-market components



How this statement make you FEEL?



"Microsoft gives me a lot of tool choices"



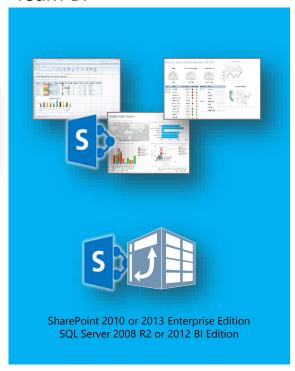
Visuals & Solutions

the Microsoft BI strategy

Personal BI



Team BI



Enterprise BI



Report Builder & SSRS

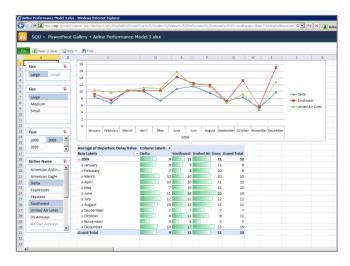
- Reporting Services continues to be one of the most capable dashboard & report design tools
- Compared to some other tools, report design can be more complex & time-consuming but more intricate designs are possible
- Report actions & advanced features are possible but interactions are less tactile & responsive than tools like Power View





Excel Visuals

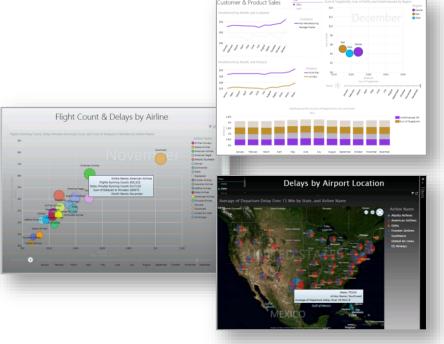
- Excel is the tool of choice for many financial & business analysts
- Classic data-sprawl issues can be avoided with SharePoint Excel Services & through organizational governance
- Improved charts, PivotTable, slicers & conditional formatting features were introduced in Excel 2007





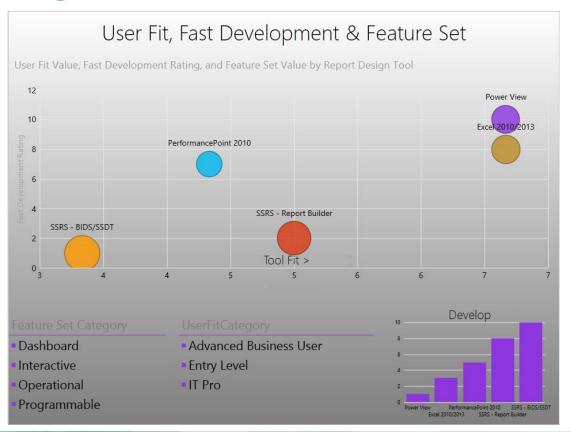
Power View

- Very easy for business users to analyze models & trends
- Tactile & interactive
- Not programmable





Measuring BI Tool Fit & Feature Set



Demonstrations

Excel 2013 used to visualize a model

- PivotTable with KPI & conditional formatting
- Slicers
- Publish to SharePoint & interact through Excel Services

Power View in Excel 2013

- KPI scorecard with drill-down
- Map report with geo hierarchy
- Bubble chart with play axis

Power View in SharePoint

- Multiple views
- Export & present in PowerPoint

Report Builder using a published PowerPivot model

- Demonstrate time & complexity to build a drill-down table
- ... KPI indicator
- ... drill-through action



Mobility Choices

- Excel Services & Reporting Services reports render in multiple browsers including IE 7, 8, 9 & 10 for Windows, Firefox for Windows & Safari for iOS.
- Several good after-market tools integrate with the Microsoft BI platform, including Tableau & Strategy Companion.
- Microsoft Mobile BI product (native mobile app for iOS, Surface RT & Pro) is currently in development. Look for more details, likely later this year.
- Power View cross browser support.

Tool Capabilities Summary

	Excel/ PowerPivot	Power View	Report Builder	SSDT / Visual Studio
Ad-hoc data exploration				
True end-user report creation				
Dashboard integration				
Complex business rules				
Complex UI control				
Custom application integration				
Parameterization				
Mobile device support				



Questions



Win a Microsoft Surface Pro!

Complete an online **SESSION EVALUATION** to be entered into the draw.

Draw closes April 12, 11:59pm CTWinners will be announced on the PASS BA Conference website and on Twitter.



Go to **passbaconference.com/evals** or follow the **QR code** link displayed on session signage throughout the conference venue.

Your feedback is important and valuable. All feedback will be used to improve and select sessions for future events.



This presentation will be on my blog at SqlServerBiBlog.com

I can be contacted at Paul.Turley@SolidQ.com



Thank you!

Diamond Sponsor

