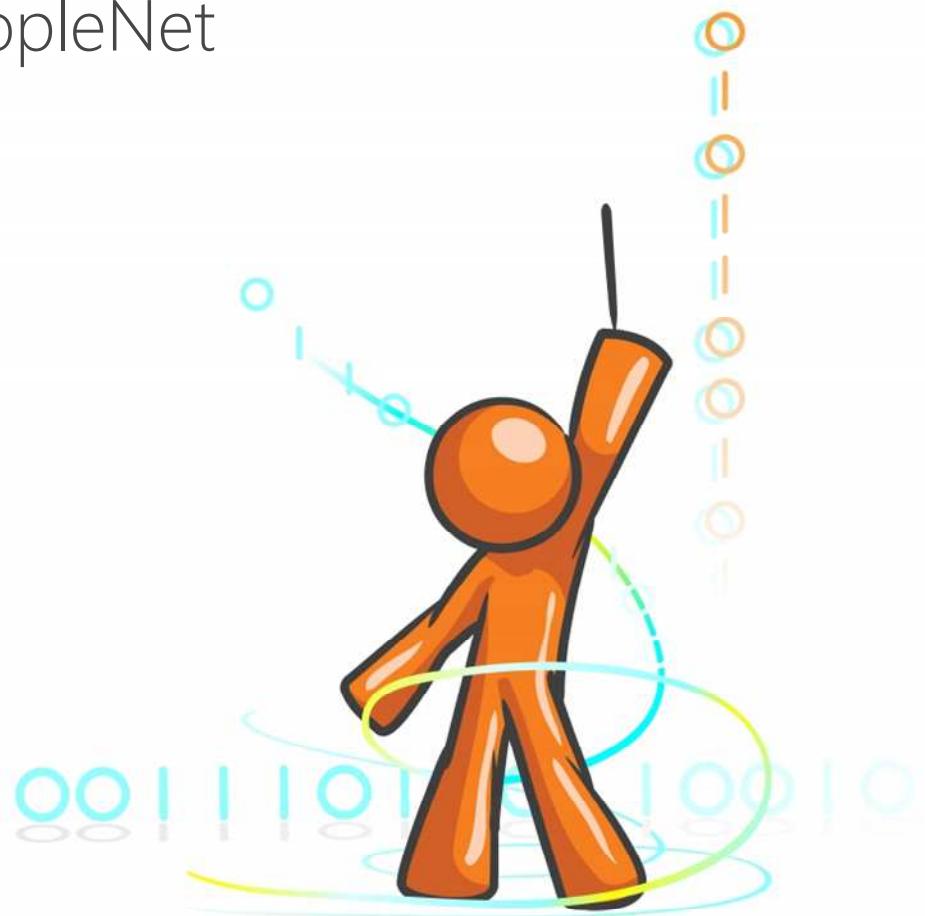


SharePoint og BI

Wake-Up Meeting hos PeopleNet
5. september 2013

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Just Thorning Blindbæk

- ▶ Konsulent i justB
- ▶ Underviser hos Orange Man
- ▶ Initiativtager til MsBIP
- ▶ Arbejdet med Microsoft BI i 7 år
- ▶ Stærkt fokus på front-end
 - Analysis Services
 - Reporting Services
 - PerformancePoint Services
 - Excel og PowerPivot
- ▶ just@blindbaek.dk / blog.justB.dk

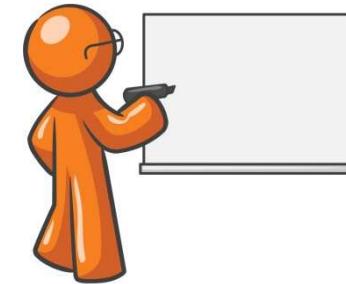


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Microsoft
CERTIFIED
IT Professional

Microsoft
CERTIFIED
Trainer

Agenda



- ▶ Hvad er Business Intelligence
- ▶ SharePoint som BI portal
- ▶ Services
 - PerformancePoint Services
 - Excel Services
 - Reporting Services integration
 - PowerPivot integration
 - Power View
- ▶ Hvad er fordele og ulemper ved de forskellige teknologier og hvordan kan de spille sammen
- ▶ BI i Office 365 / SharePoint Online

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What is Business Intelligence

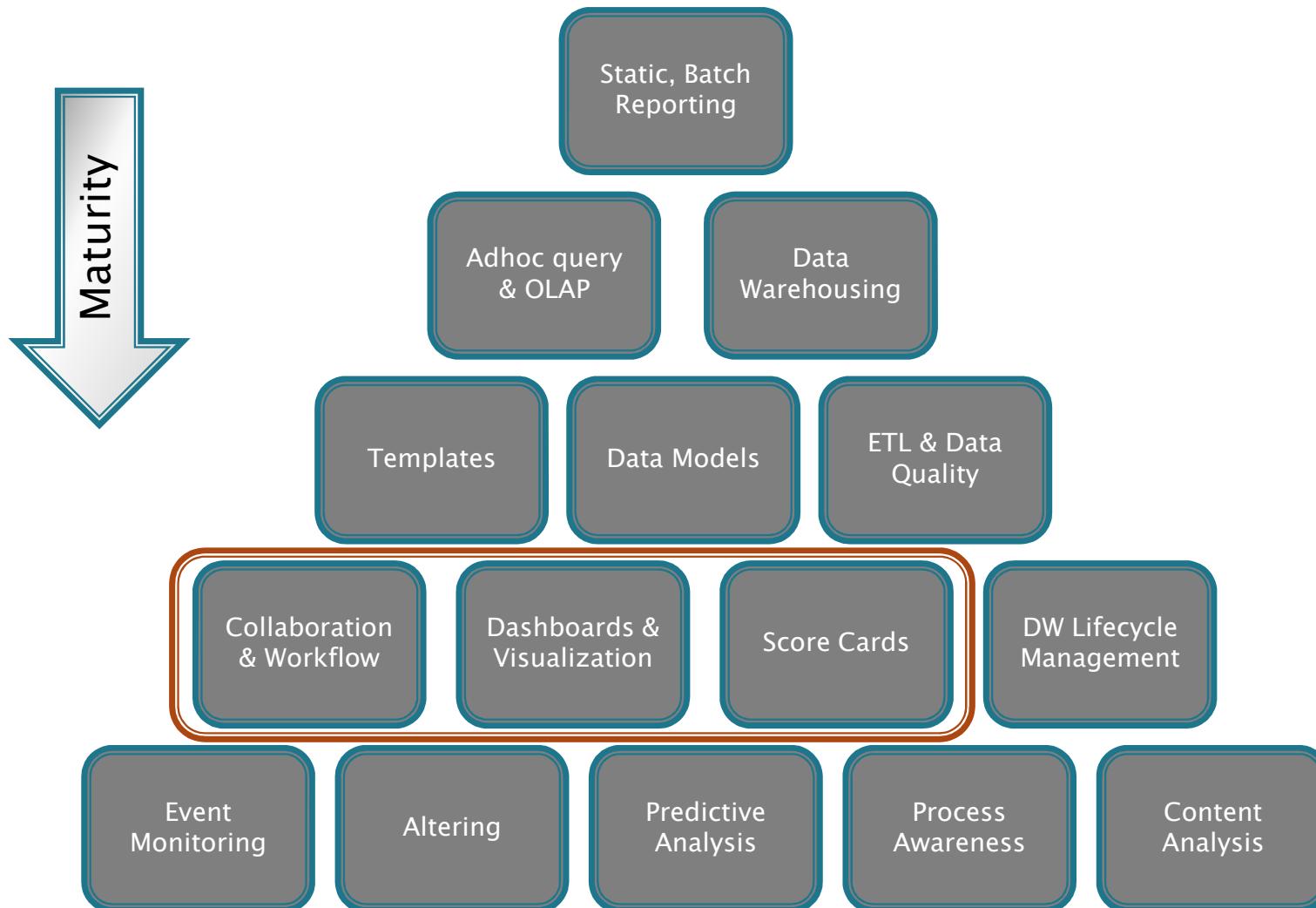
"Improving decision making by using fact-based support systems"

Turning data into relevant, accessible information
for better, faster decisions

- ▶ Make better decisions
- ▶ Increase performance
- ▶ Use budgets more efficiently

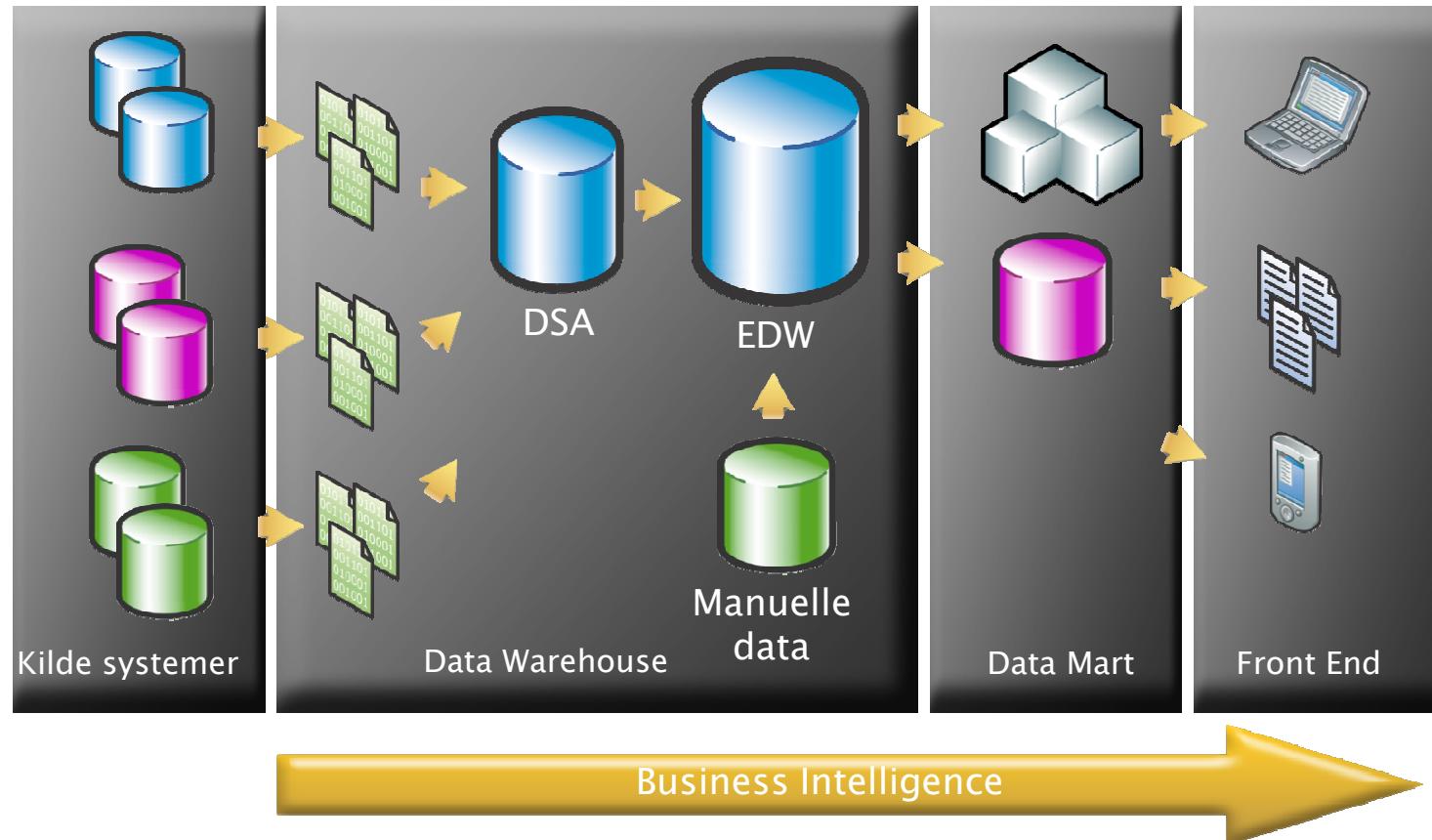
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Business Intelligence Maturity Model



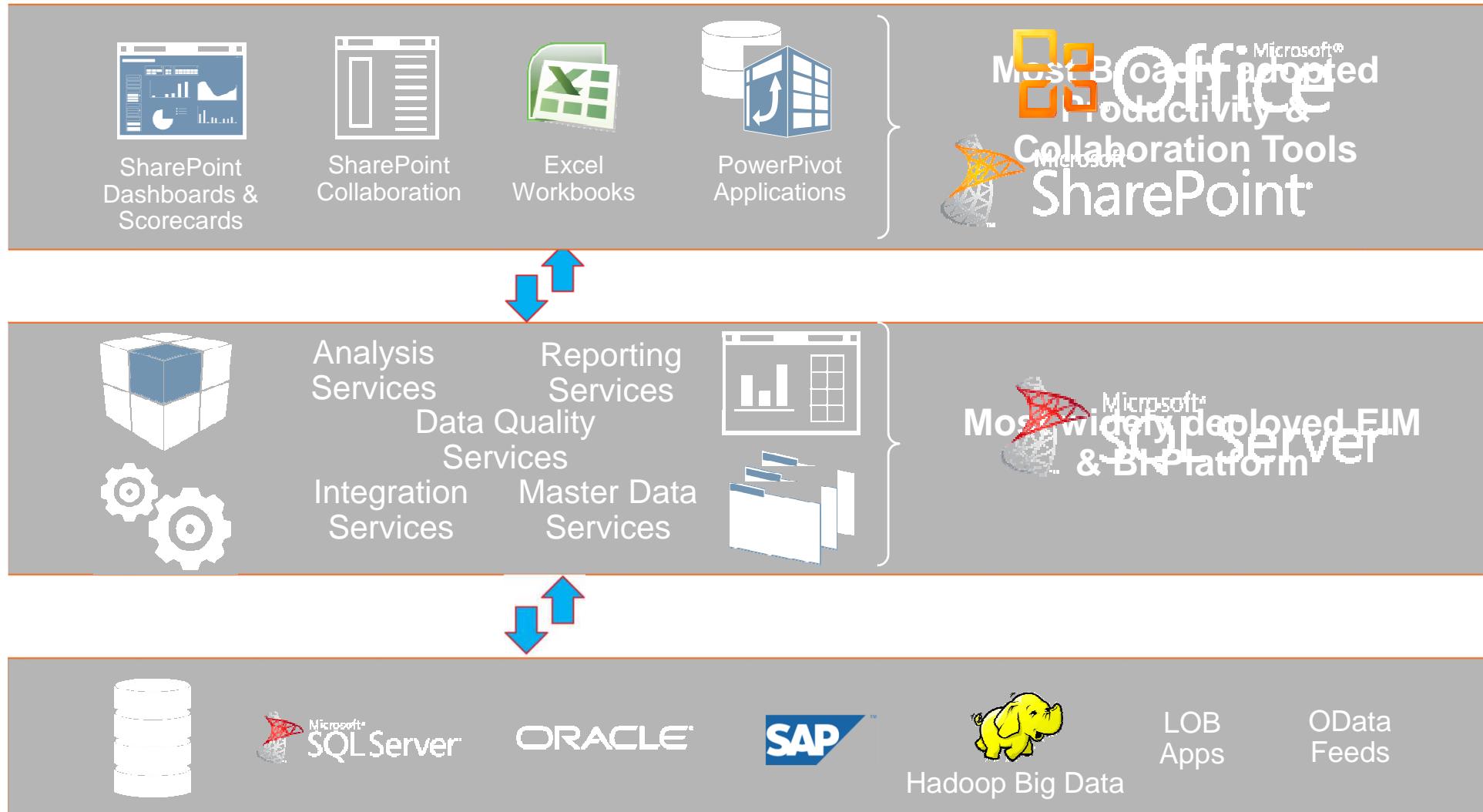
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Information Supply Chain



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Microsoft Business Intelligence stack

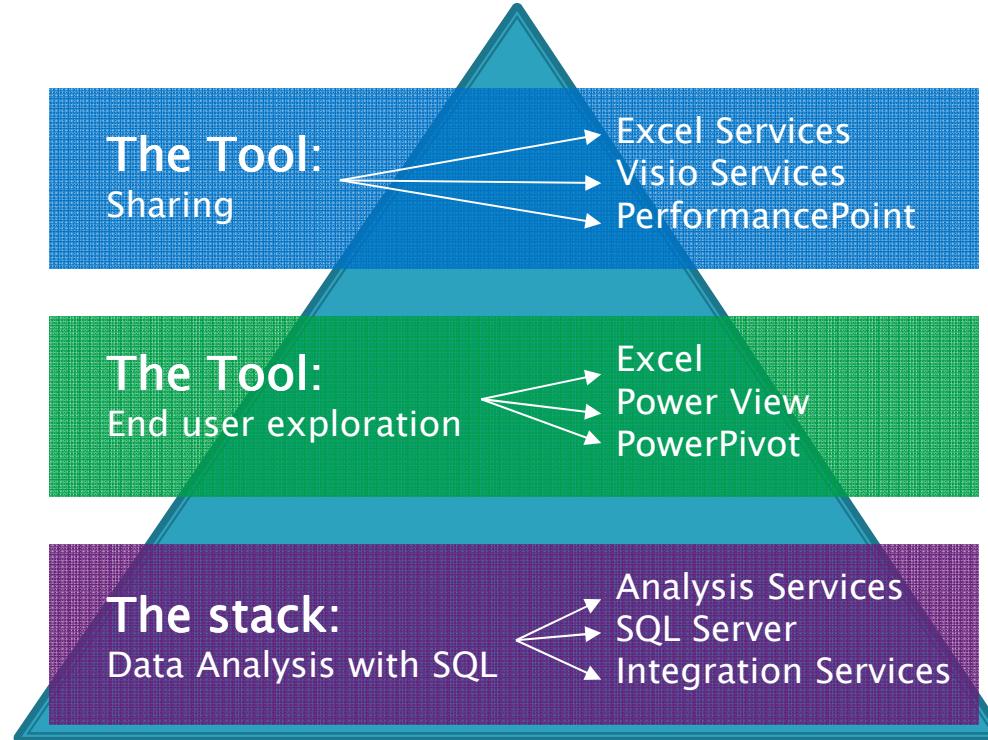


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Office BI Strategy



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Flavors of BI

On-Premise and Cloud

Personal BI

You create your own workbook and use the rich features of Excel to interact with the workbook and the data it contains.



Self-Service BI

You create your workbook and publish it to SharePoint for wider consumption.



Corporate BI

“Professionally” authored using SharePoint, Excel Services, and PerformancePoint. Has lasting power.



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Business Intelligence Investments



End-User



IT Professional

Complete and powerful
self-service BI in Excel

Enterprise grade governance
and scale in SharePoint

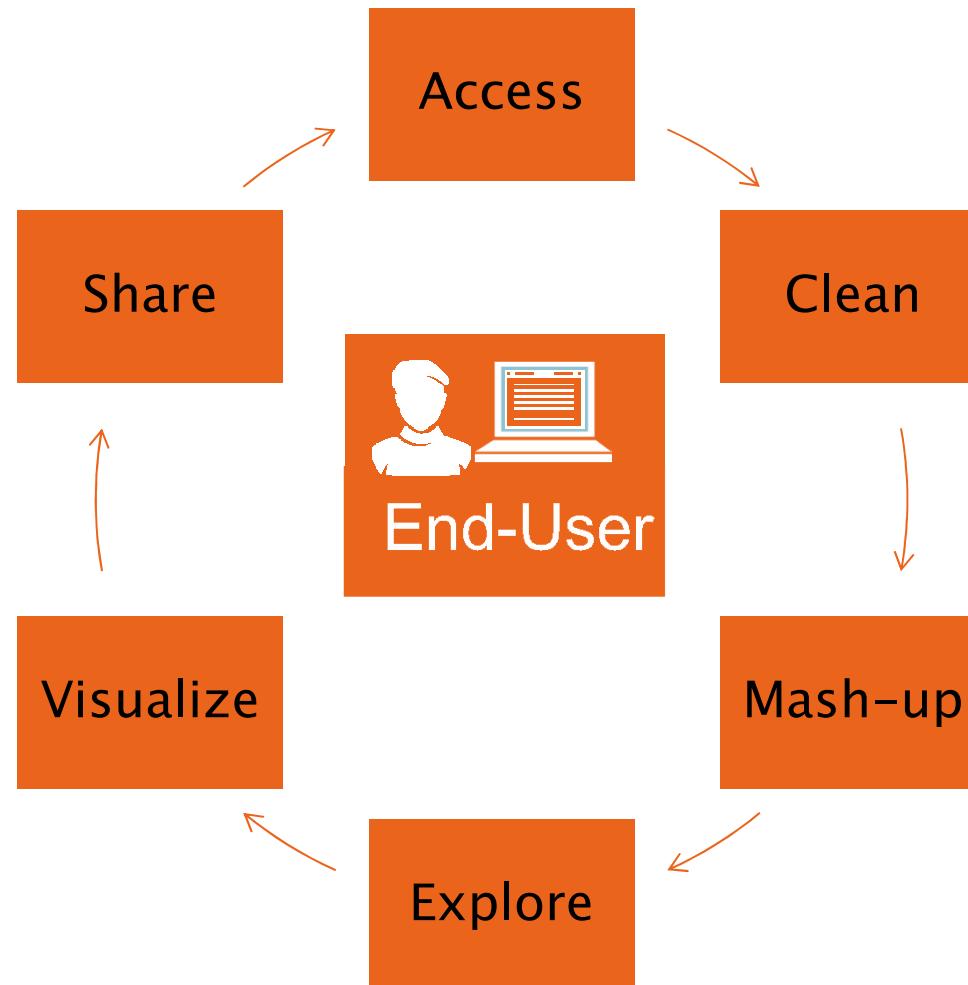
Agility

Control



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Self-Service Business Intelligence



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SharePoint som BI portal

- ▶ Business Intelligence Center
 - Just a site!
 - Template - site definition
- ▶ Hvordan opbygges en BI portal i SharePoint?
- ▶ Skal man centralisere eller decentralisere BI indholdet?

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PerformancePoint Services

- ▶ Advanceret scorecard og KPI rapportering
- ▶ Dashboard til integration af andre services
 - Generer webpart pages
- ▶ Analysis Services som kilde til alt det sjove :-)
- ▶ Proclarity opkøbt og integreret
 - Analytic charts
 - Decomposition Tree
- ▶ Time intelligence
 - Indbygget features
 - Implementering i Analysis Services
- ▶ Konfiguration: PerformancePoint Service Application Settings
 - Unattended Service Account
 - Filters - default valg

<http://blogs.msdn.com/b/performancepoint/>

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What's New in PerformancePoint in SharePoint 2013

- ▶ Themes
- ▶ Dashboard Designer in the ribbon (BI Center)
- ▶ Filter Enhancements
- ▶ Filter Search
- ▶ Server-side Migration

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PerformancePoint Services evolution

Before SharePoint – Business Scorecard Manager 2005 (BSM)

- Data Analyzer acquired in 2001
- Monitoring and analytics

SharePoint 2007 – PerformancePoint Server (PPS)

- ProClarity acquired in 2006
- Two products. Planing Server and Monitoring Server – both seperate from SharePoint

SharePoint 2010 – PerformancePoint Services

- Back to only monitoring and analytics
- The next generation Performance Management application

SharePoint 2013 – PerformancePoint Services

- Monitoring and analytics
- Focus is on Enterprise Business Intelligence

SharePoint 2016?

- Replaced by Excel Services?

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Excel Services

- ▶ Publisher Excel sheets til SharePoint
- ▶ Integration i SharePoint
 - Full page
 - PerformancePoint Services dashboard
 - WebPart page
- ▶ Tips og tricks
 - Fjerne gridlines
 - Anvend "Named items" og "Name manager"
 - Cube functions
 - Named sets
- ▶ Excel REST
 - API og framework til adgang til data og objekter i regneark
 - Adgang direkte via URL

<http://technet.microsoft.com/en-us/library/ee424405.aspx>

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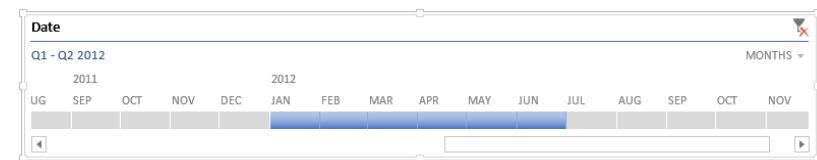
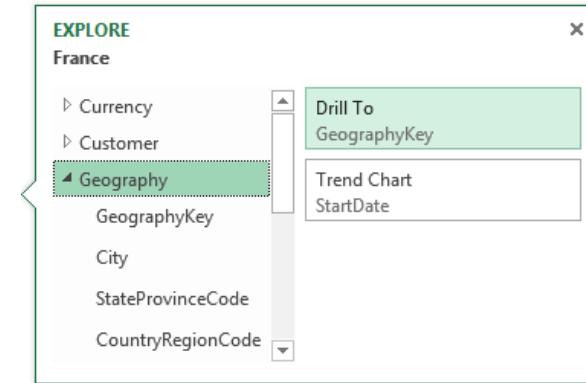
What's New in Excel Services

► Features

- Power View
- PivotTable Field List/Field Well
- Timeline Slicers
- Quick Explore
- 3D charts
- Apps for Office
- Named Object View v2

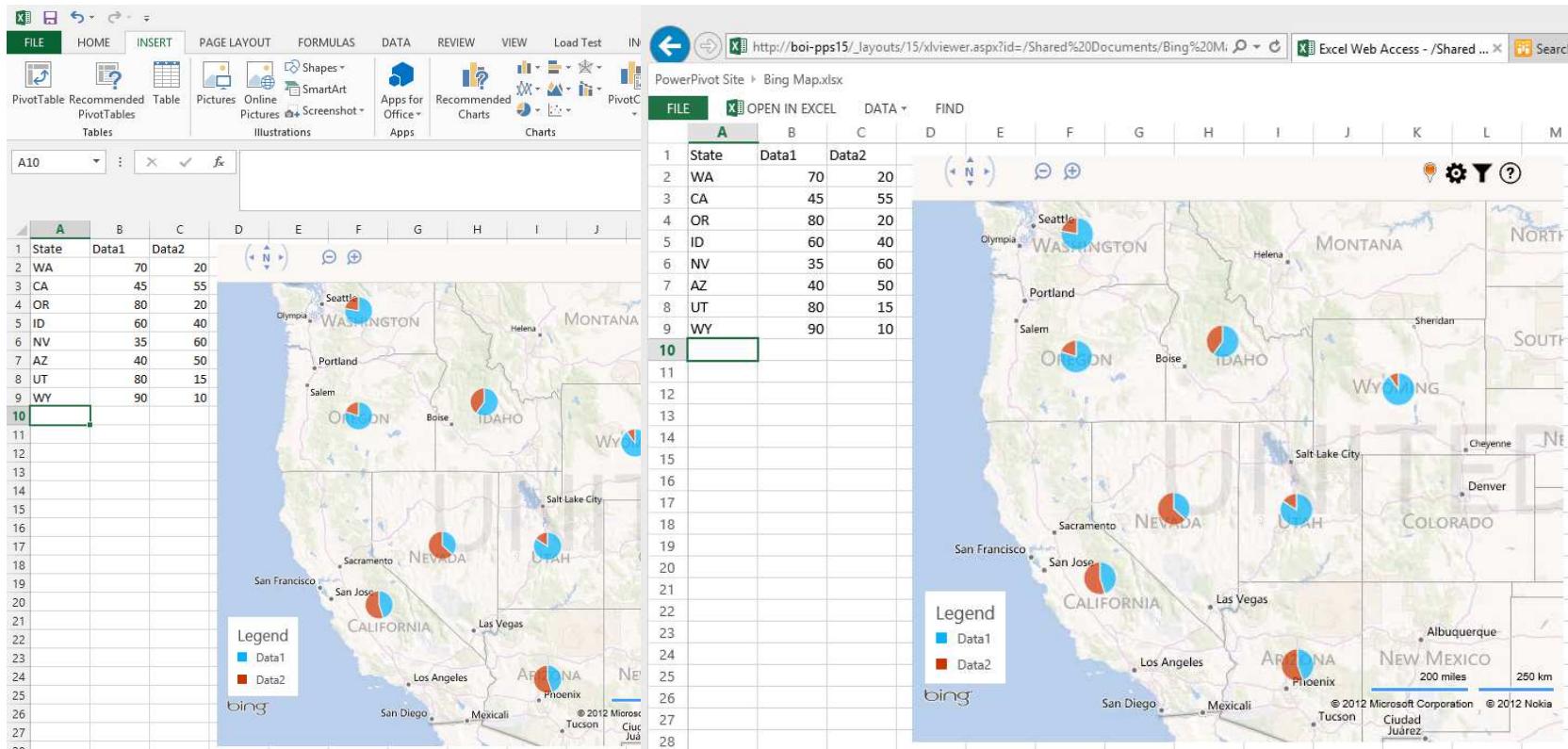
► Tech stuff

- EffectiveUsername
- Automatic Target App Creation
- BI Server



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Client Fidelity = Browser Fidelity



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Reporting Services integration

- ▶ Del af SQL Server
- ▶ Integration
 - Samarbejde og workflow
 - Sikkerhed / adgangsstyring
 - Web Parts
 - Standalone + lidt mere
- ▶ Library (Report og report parts)
 - Versionering og source control
 - Direkte rendering
- ▶ Report Builder 3.0
 - Shared datasources
 - Report Parts

<http://technet.microsoft.com/en-us/library/ee210649.aspx>

What's New in Reporting Services

- ▶ User defined Self-Service alerting (Data Alerts)
- ▶ Mobile viewing support on Windows and IOS iPad tablets
- ▶ Report Data Feeds for delivering data as a service
- ▶ Support for new report export file formats
 - Word rendering to *.docx format
 - Excel rendering to *.xlsx format
- ▶ Feature parity with existing Word and Excel renderers
- ▶ Added ZIP-compressed files
- ▶ Larger worksheets in Excel
 - 65k -> 1M rows
 - 256 -> 16k columns
- ▶ More colors, theming and branding in Excel
 - 56-color palette -> 24-bit color (16M colors)

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Charts, KPIs, Sparklines, Gauges and Geospatial Mapping

Report Builder
Easy to use Wizards

The screenshot displays the Microsoft SQL Server Report Builder interface. On the left, a 'New report or dataset' dialog box is open, offering options to 'Create a report' (Report, Table or Matrix Wizard, Chart Wizard, Map Wizard, Blank Report) and 'Create a dataset' (Shared Dataset). Below this, a preview of a report titled 'Adventure Works cycles' is shown, featuring a bar chart of top employees and a pie chart of top stores. The main workspace shows a report titled 'Sample Report Builder 3.0 Report' containing a bar chart of total trade volume by client name and a map of the United States with data points. The ribbon menu includes Home, Insert, View, and Report Wizards. The ribbon tabs include Report Parts, Data Regions, Data Visualizations, Report Items, Subreports, Header & Footer, and Report Part Gallery.

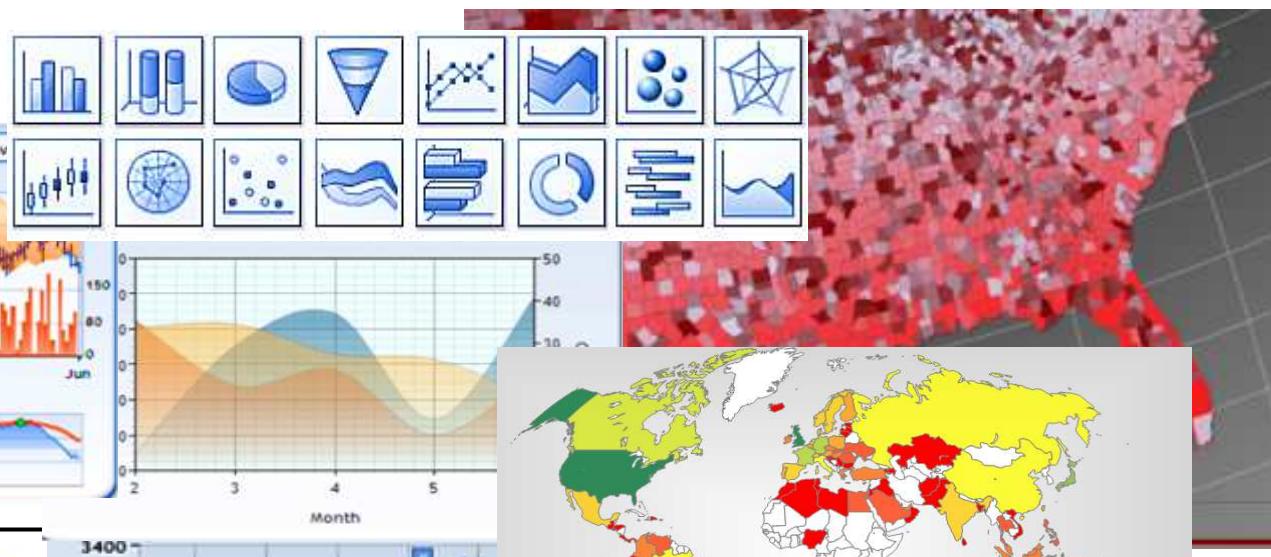
Alerting and Subscriptions

Operational and Self-Service
Ad-Hoc Report Authoring

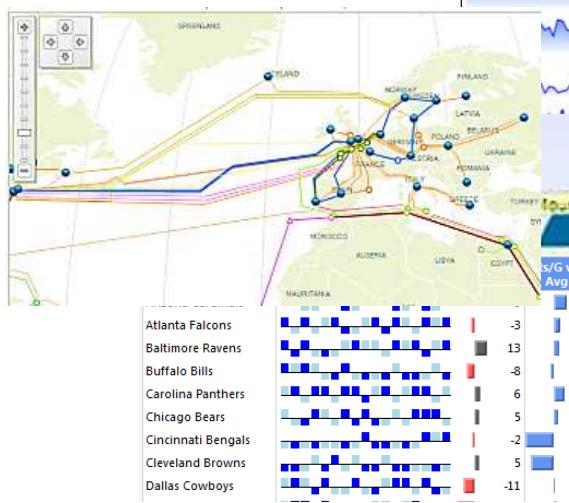
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Maps

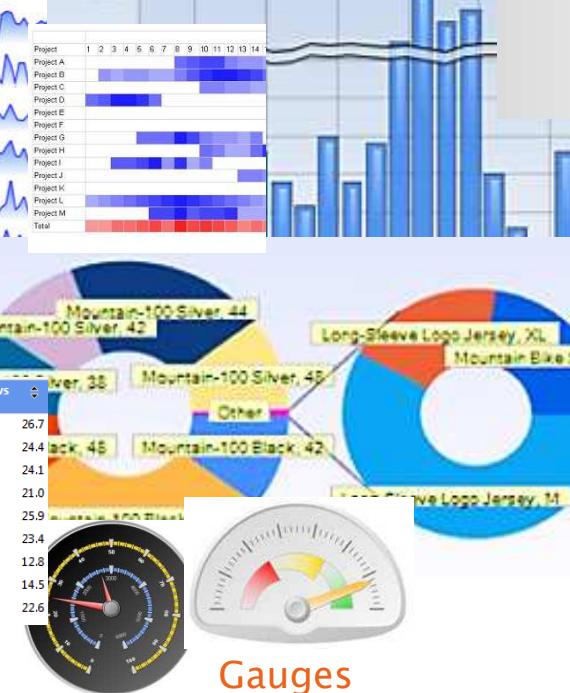
Bar, Line, Pie, Scatter, Area and other chart types



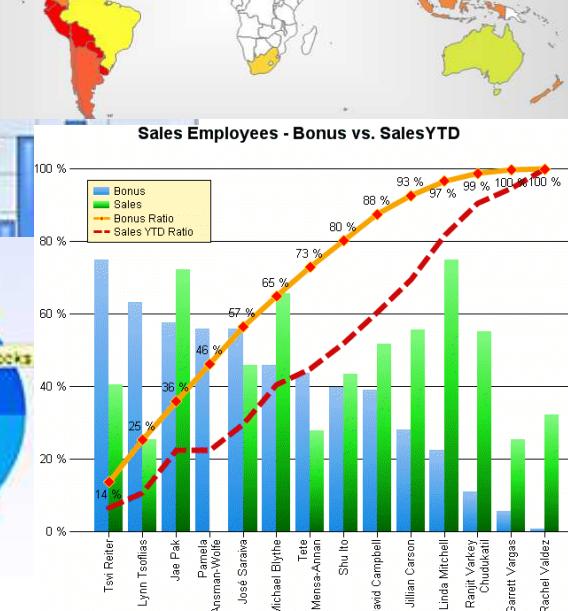
Bullet Charts



Sparklines



Gauges



Pareto Charts

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PowerPivot integration

- ▶ "Managed" Self-service BI
- ▶ Team BI
- ▶ PowerPivot er godt til profiling og prototyping i Excel
- ▶ Integration i SharePoint - hvorfor?
- ▶ Auto refresh

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Power View

- ▶ "Managed" Self-service BI...
- ▶ Visuel design oplevelse
- ▶ Metadata-drevet
- ▶ Ad-hoc rapportering til forretningsbrugerne
- ▶ Forbinder til:
 - Excel Data Model (Power Pivot)
 - Analysis Services Tabular og Multidimensionel (snart)
- ▶ Export til PowerPoint

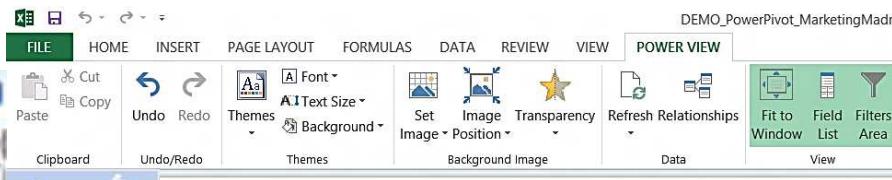
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Power View

Drag and drop,
user defined
drill paths



Easily develop fully interactive reports

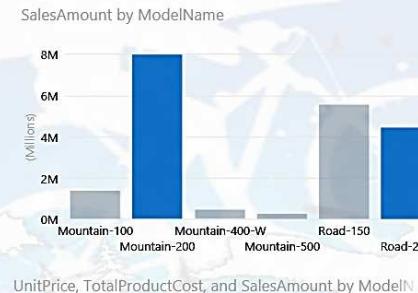


LOCATIONS

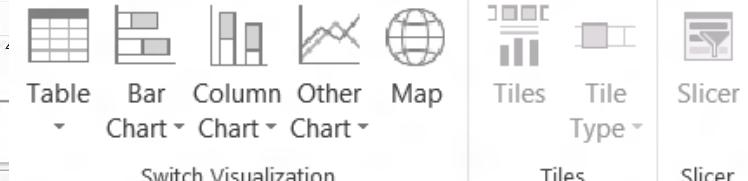
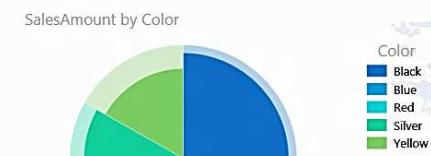
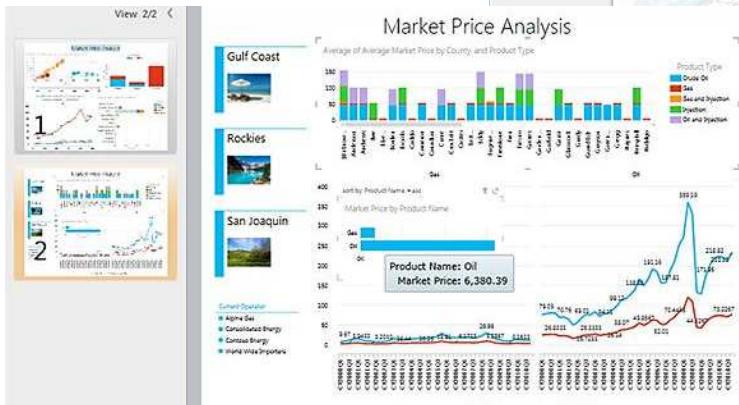
- RegionCountry
- StateProvince
- City

Drill up

Sales Impact of Pricing Changes



What-If type
analysis with
filtering



Wide variety of data visualizations

Save or export multiple views to PowerPoint

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Filters

VIEW

► ProductLine
(All)

► Style
(All)

▲ UnitPrice
is greater than or equal to \$524.06785035899

\$2.29

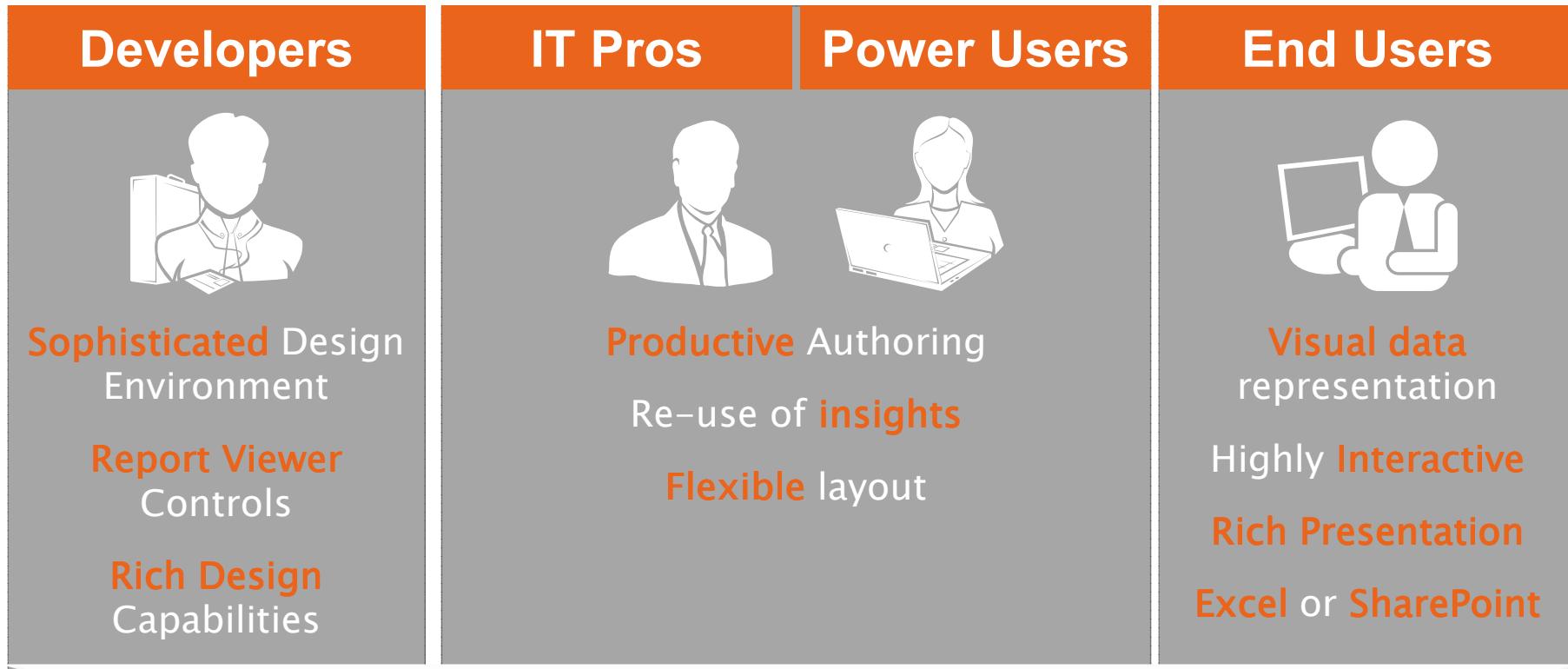
\$3,578.27

Types of Power View reports

- Power View report
 - .rdlx file
 - Contains only Power View sheets
 - Doesn't contain a data model
 - All sheets connect to same external model
 - Can connect to Multidimensional
 - Export to PowerPoint
- Excel workbook
 - .xlsx file
 - Can contain traditional Excel sheets and Power View sheets
 - Can contain a data model
 - Sheets can connect to the embedded data model or external models
 - Different sheets can connect to different models

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Reporting Services for all users



Report Designer

Report Builder

Power View

Embedded

Operational

Business

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Power View feature comparison

	Excel	Excel Web App	Reporting Services
Design reports	Yes	No	Yes
Interact with reports	Yes	Yes	Yes
Visualizations	All	All	All
Cross-visualization interactivity	Yes	Yes	Yes
Max. workbook size	Client limits	SharePoint limits (Office 365: 10 MB)	SharePoint limits
Embedded data model	Yes	Yes	No
External data models	Yes	Yes (Office 365: No)	Yes
Multiple models	Yes	Yes (Office 365: No)	No
Multidimensional models (cubes)	No	No	Yes
Reorder Power View sheets	No	No	Yes
Reading and Full-Screen modes	No	No	Yes
Zoom	No	Browser zoom	Browser zoom
External images	Yes	Yes (Office 365: No)	Yes
Export to PowerPoint	No	No	Yes

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Visio Services

- ▶ Render Visio tegninger i browseren (uden Visio installeret)
- ▶ Data-drevet visualisering
- ▶ Maps, flows, strategy-map etc.
- ▶ Plads til forbedringer

<http://technet.microsoft.com/en-us/library/ee663482.aspx>

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Sammenligning af tools

	Performance Point Services	Reporting Services	Excel Services	Power View
Reporting	Integrated dashboard on BI Portal	x		
	Distribution		x	
	Print		x	
	Export		x	(x)
	Standard report		x	x
Functionality	Pixel perfect (customized) reporting		x	(x)
	Change measures (predefined set)	x		x
Interactivity	Change pivoting (predefined set)	x		x
	Drill through (predefined path)	x	(x)	(x)
	Pivoting (predefined path)	x	(x)	x (x)
Data sources	Decomposition	x		
	OLAP Multidimensional	x	x	x
	OLAP Tabular	x	x	x
	Relational	(x)	x	(x)
	Excel	(x)	(x)	(x)
	Other	(x)	x	(x)

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Opsamling og spørgsmål

- ▶ Excel Services
- ▶ PerformancePoint Services
- ▶ Reporting Services Integration
- ▶ PowerPivot integration
- ▶ Power View

BI i Office365 / SharePoint Online

- ▶ Hvilke muligheder er der med BI i Office 365?
 - PowerPivot
 - Excel Services
 - Kræver Office 365 E3/E4 eller SharePoint Online Plan 2
- ▶ Mangler
 - PerformancePoint
 - Reporting Services
 - Større workbooks (max 10 mb)
 - Adgang til eksterne data

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Power BI – Self-service BI

- ▶ Power Query
 - Former codename "Data Explorer"
 - Data discovery / Data Catalogue
- ▶ Power Pivot
 - 100 millioner af rækker i Excel
- ▶ Power View
 - Visualisering og analyse
- ▶ Power Map
 - Former codename "GeoFlow"
 - Visualisering af geospatial data
- ▶ Power BI Sites
 - Q&A (Natural Language Query)

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Flere ressourcer

- ▶ SharePoint 2013 on MSDN:
<http://msdn.microsoft.com/en-us/library/jj162979.aspx>
- ▶ Business intelligence for SharePoint 2013 IT pros:
<http://technet.microsoft.com/en-us/sharepoint/fp142398.aspx>
- ▶ SharePoint 2013 BI video:
<http://channel9.msdn.com/posts/SharePoint-2013-BI>
- ▶ Online Power View demos:
<http://www.microsoft.com/en-us/bi/getmicrosoftbi/tryit.aspx>
- ▶ The Excel Button: <http://www.excelmashup.com/>
- ▶ Official PerformancePoint Services blog:
<http://blogs.msdn.com/b/performancepoint/>
- ▶ Power BI: <http://blogs.msdn.com/b/powerbi/>

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