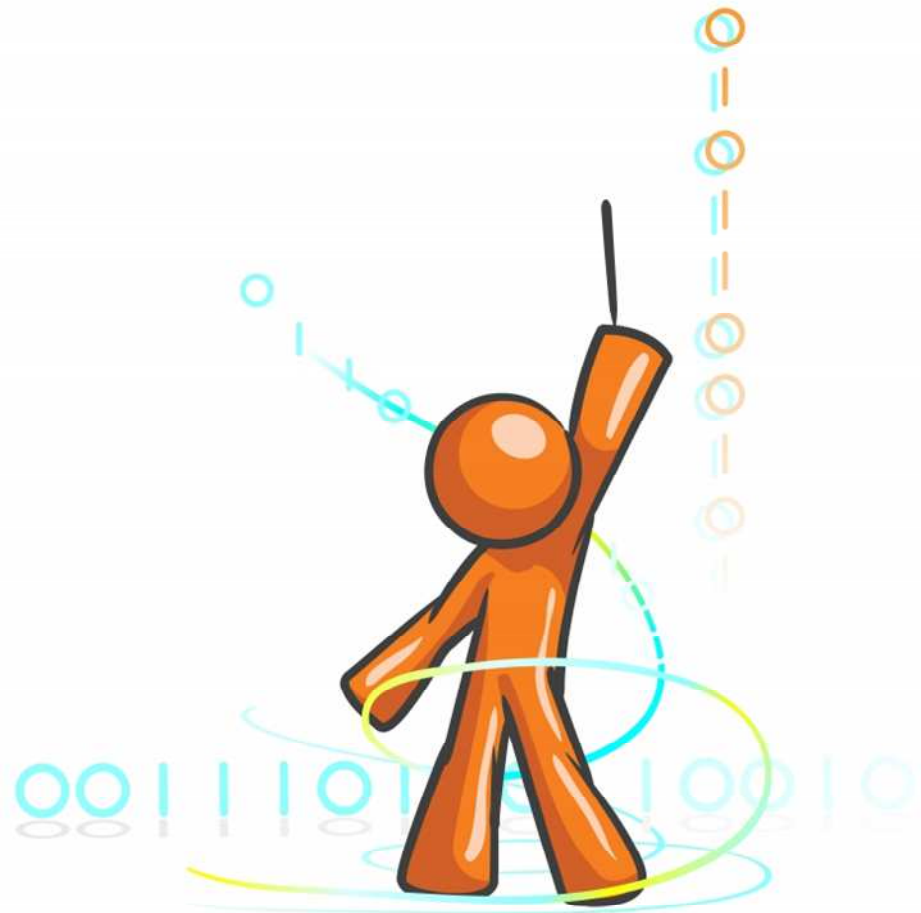


# BI med SharePoint 2013

ExcelBI - 12. marts 2014

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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](mailto:just@blindbaek.dk) / [blog.justB.dk](http://blog.justB.dk)



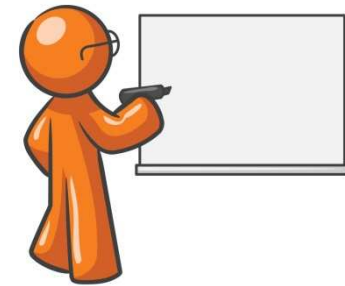
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**SSAS**  
**MAESTRO**  
by Microsoft

**Microsoft**  
**CERTIFIED**  
IT Professional

**Microsoft**  
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Trainer

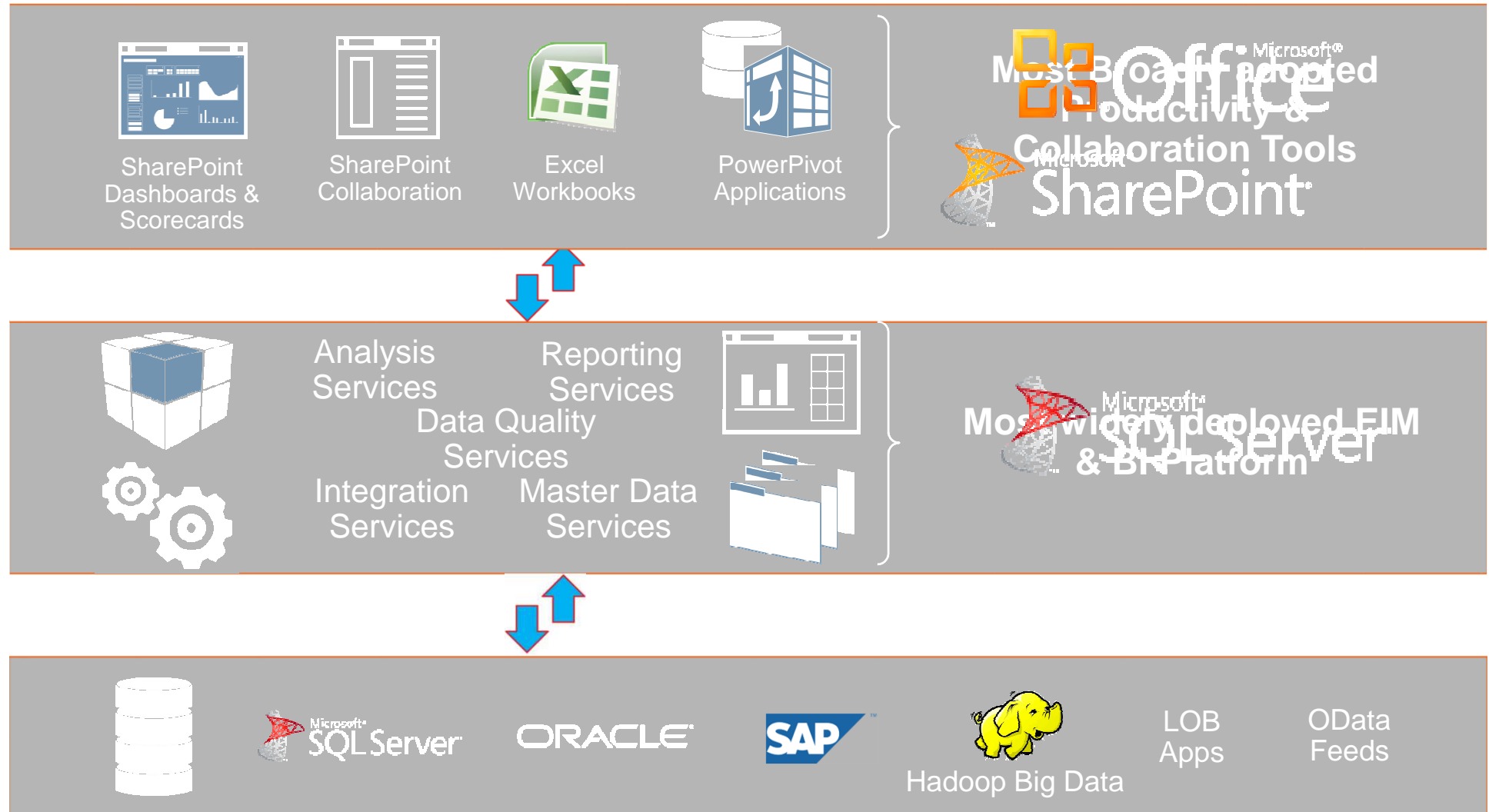
# Agenda



- ▶ 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

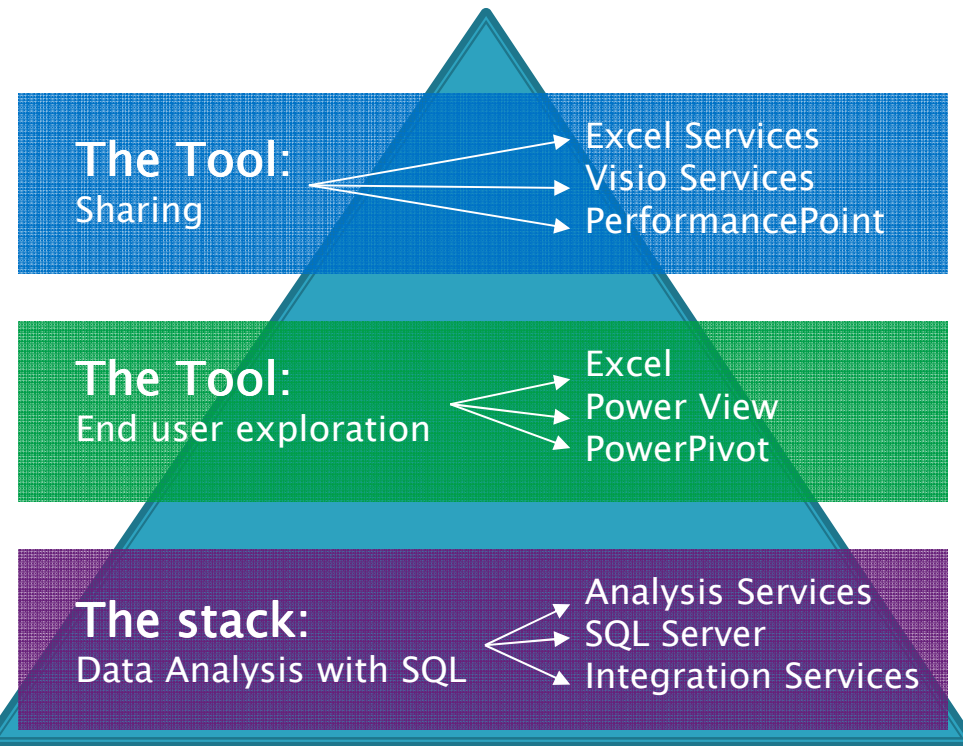
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# Microsoft Business Intelligence stack



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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.



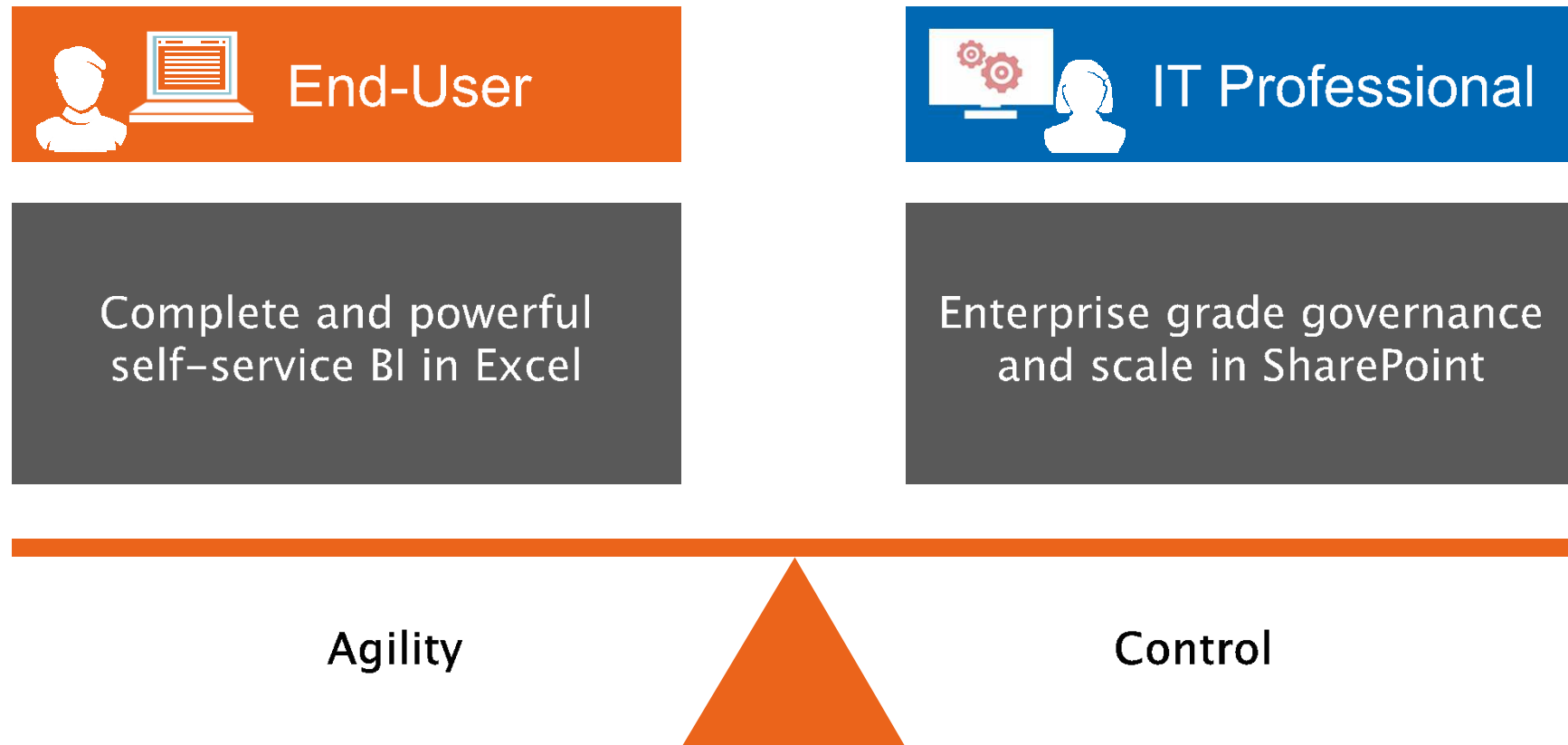
## Corporate BI

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



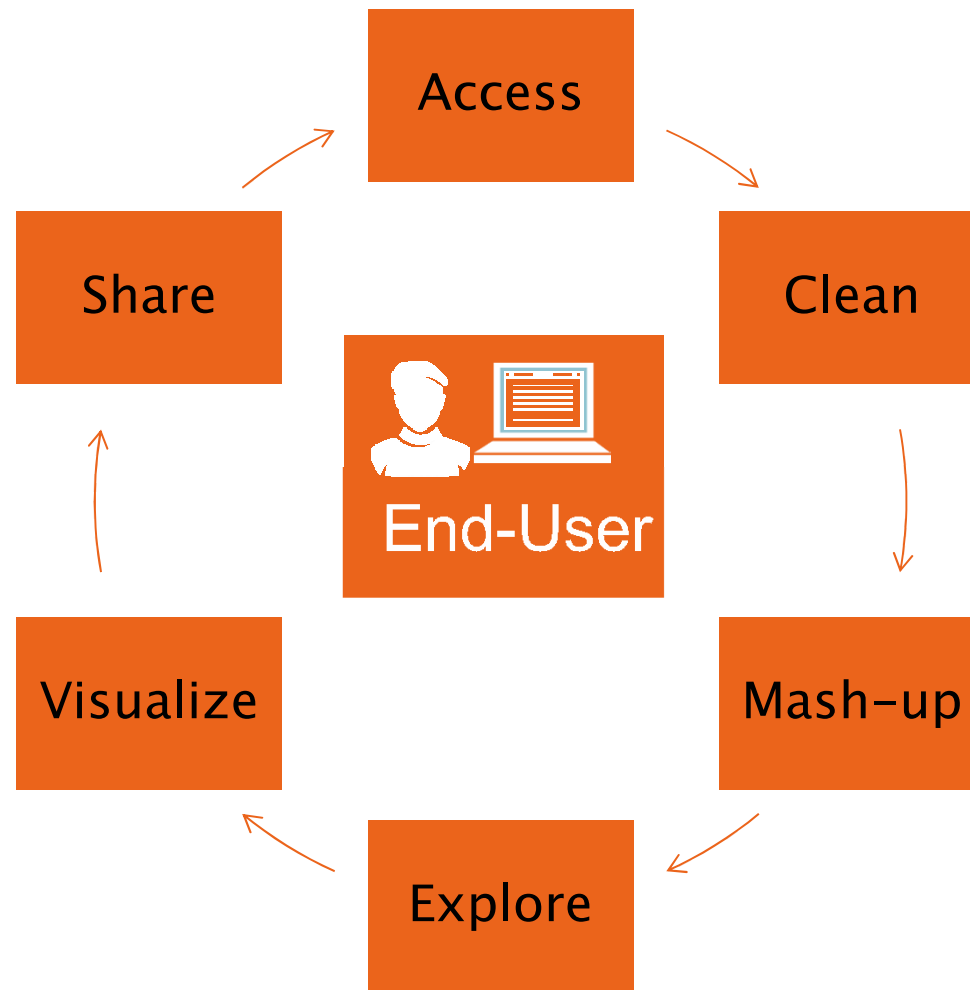
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# Business Intelligence Investments



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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?

# PerformancePoint Services

- ▶ Avanceret 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

# 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. Planning Server and Monitoring Server – both separate 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?

# 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>

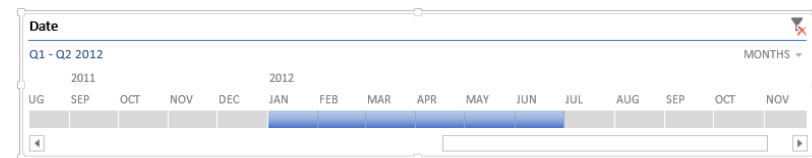
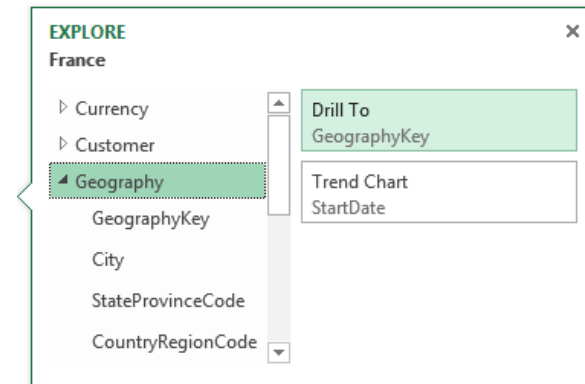
# What's New in Excel Services

## ► Features

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

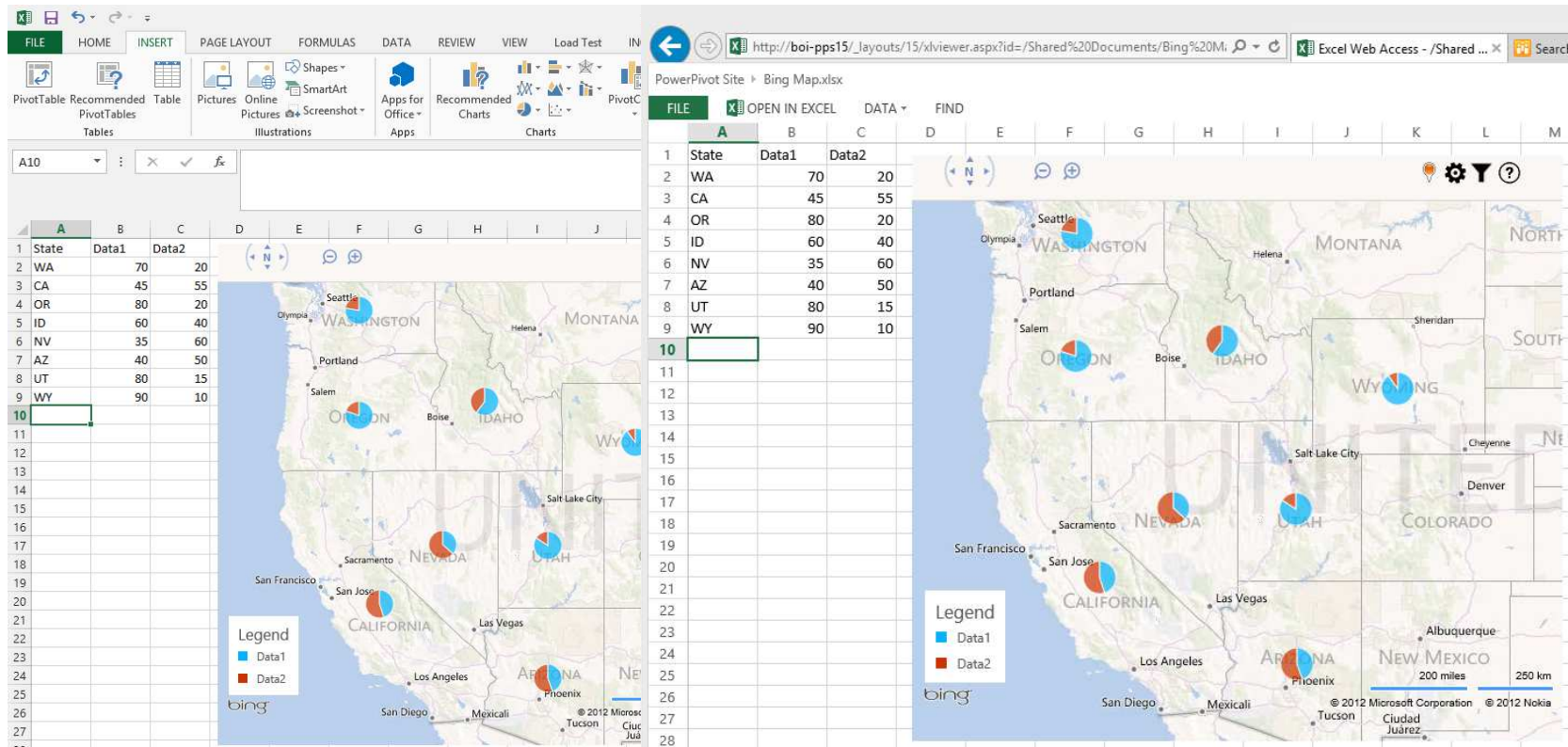
## ► Tech stuff

- 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>

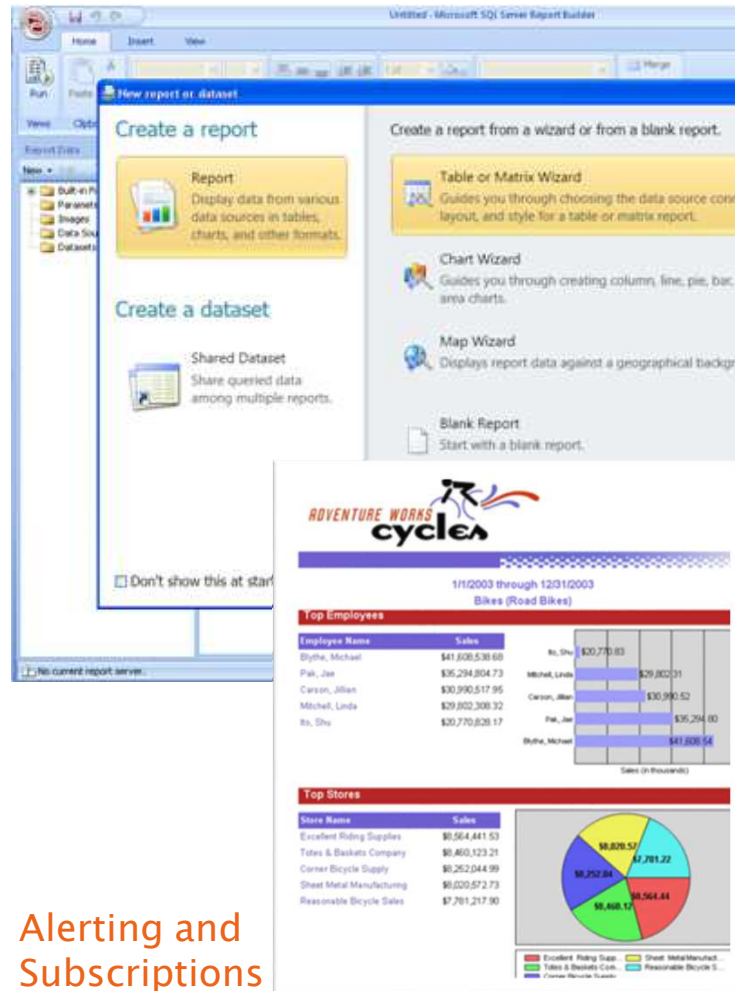


# What's New in Reporting Services

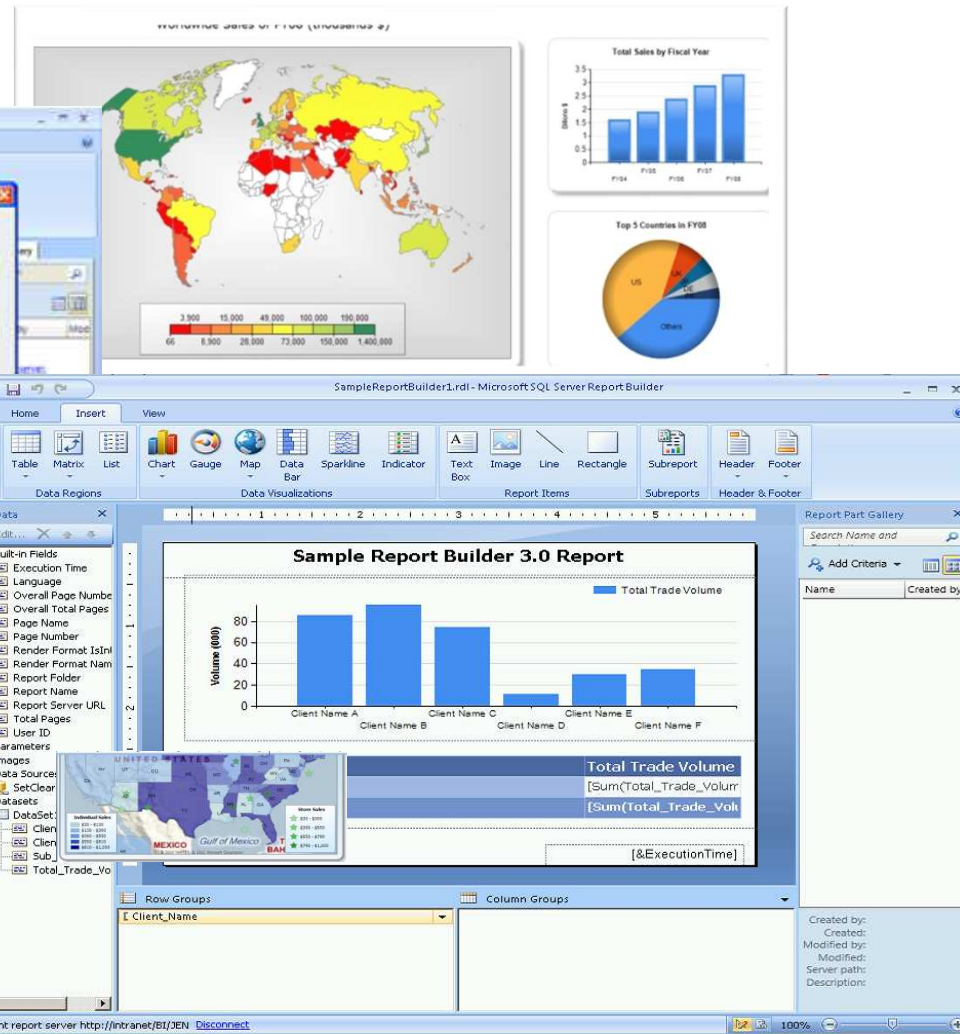
- ▶ User defined Self-Service alerting (Data Alerts)
- ▶ Mobile viewing support on Windows and IOS iPad tablets
- ▶ Report Data Feeds for delivering data as a service
- ▶ Support for new report export file formats
  - Word rendering to \*.docx format
  - Excel rendering to \*.xlsx format
- ▶ Feature 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)

## Charts, KPIs, Sparklines, Gauges and Geospatial Mapping

### Report Builder Easy to use Wizards



Alerting and  
Subscriptions

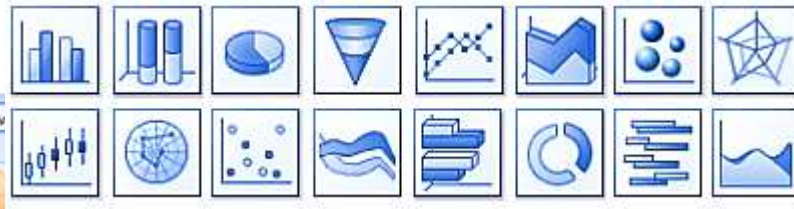


Operational and Self-Service  
Ad-Hoc Report Authoring

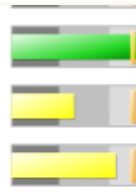
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## Maps

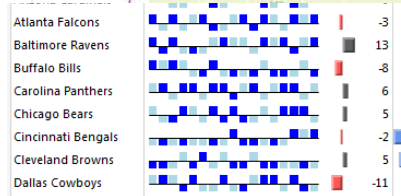
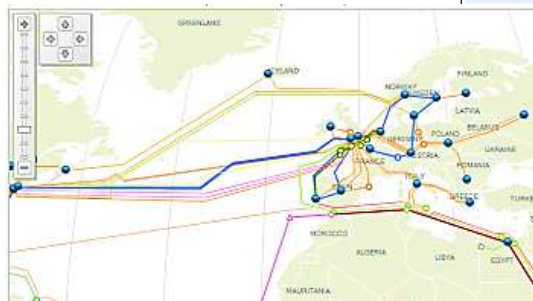
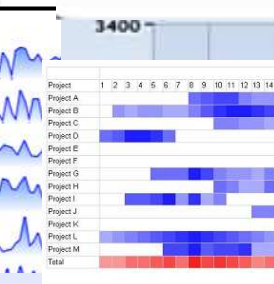
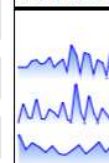
Bar, Line, Pie, Scatter, Area  
and other chart types



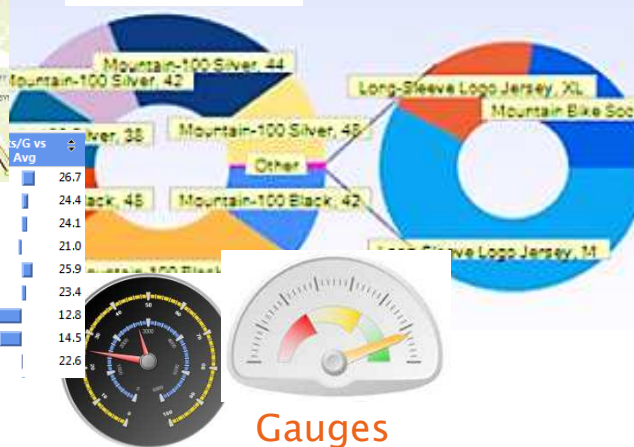
Bullet  
Charts



Sales Trend

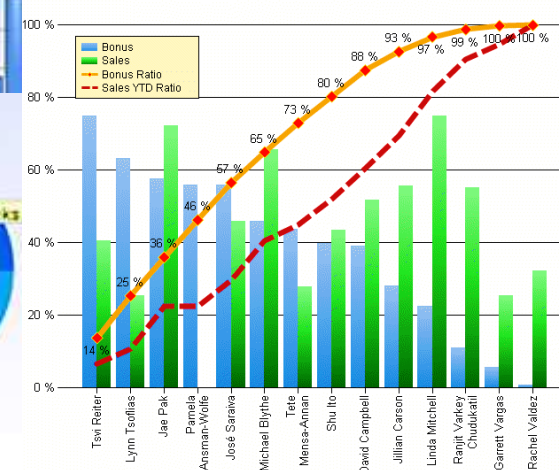


Sparklines



Gauges

Sales Employees - Bonus vs. SalesYTD



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

# Power View

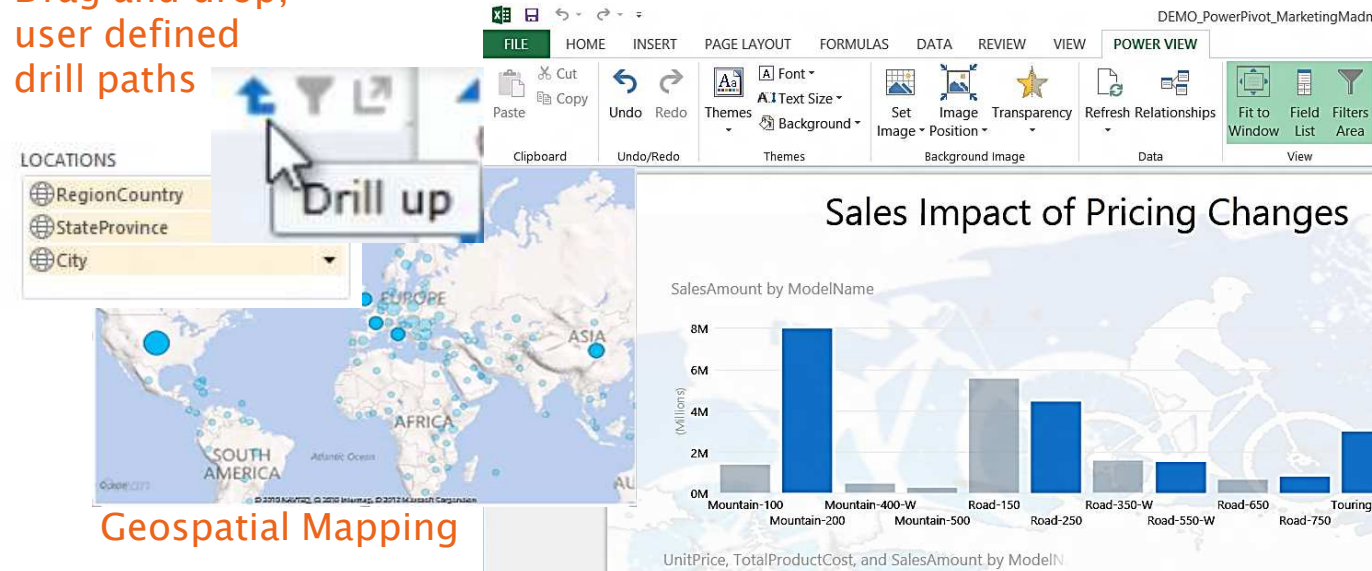
- ▶ “Managed” Self-service BI...
- ▶ Visuel design oplevelse
- ▶ Metadata-drevet
- ▶ Ad-hoc rapportering til forretningsbrugerne
- ▶ Forbinder til:
  - Excel Data Model (Power Pivot)
  - Analysis Services Tabular og Multidimensionel (snart)
- ▶ Export til PowerPoint



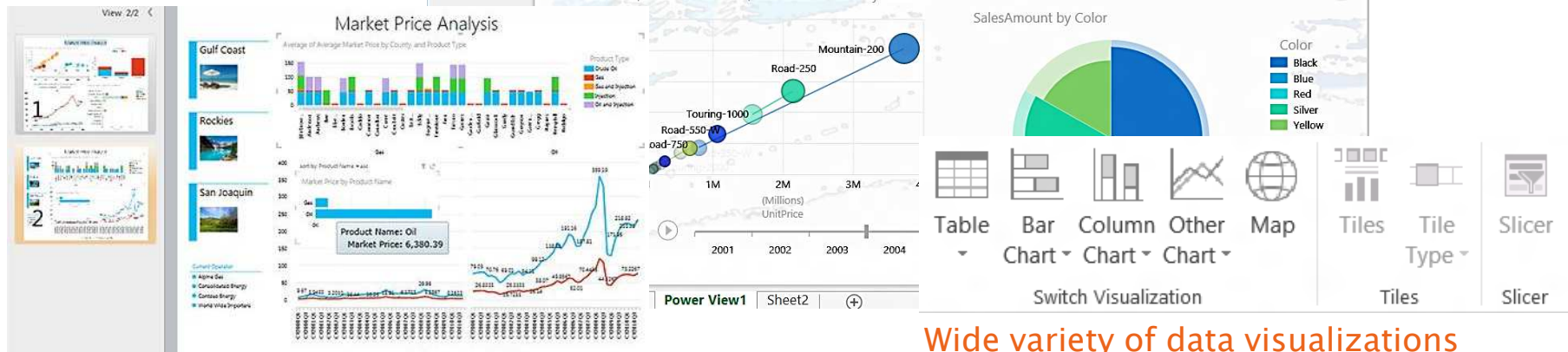
# Power View

## Easily develop fully interactive reports

Drag and drop,  
user defined  
drill paths



# Geospatial Mapping



## Wide variety of data visualizations

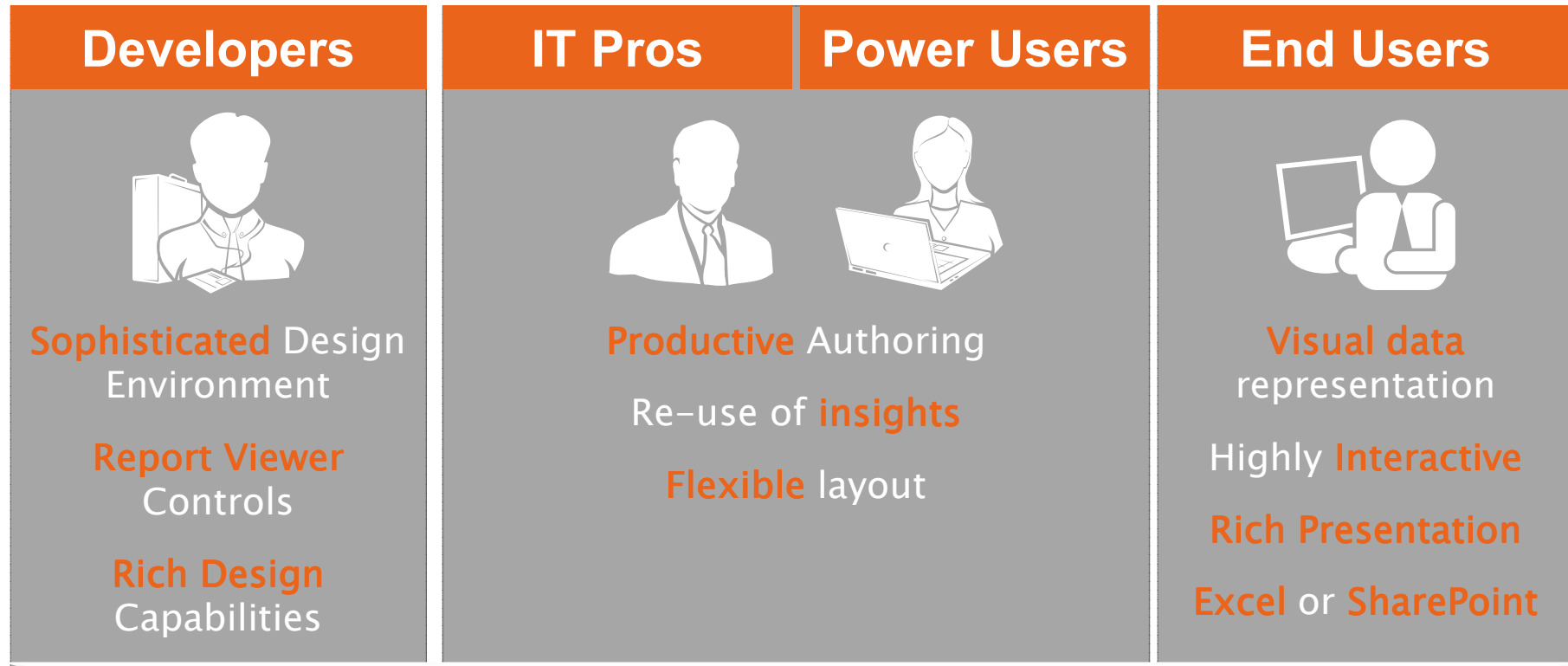
## Save or export multiple views to PowerPoint

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# 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

# 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 Sevices

- ▶ 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>

# 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	
	Pixel perfect (customized) reporting		x	(x)	
Functionality	Change measures (predefined set)	x		x	
	Change pivoting (predefined set)	x		x	
Interactivity	Drill through (predefined path)	x	(x)		(x)
	Pivoting (predefined path)	x	(x)	x	(x)
	Decomposition	x			
Data sources	OLAP Multidimensional	x	x	x	x
	OLAP Tabular	x	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

# Power BI – Self-service BI

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

# 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/>