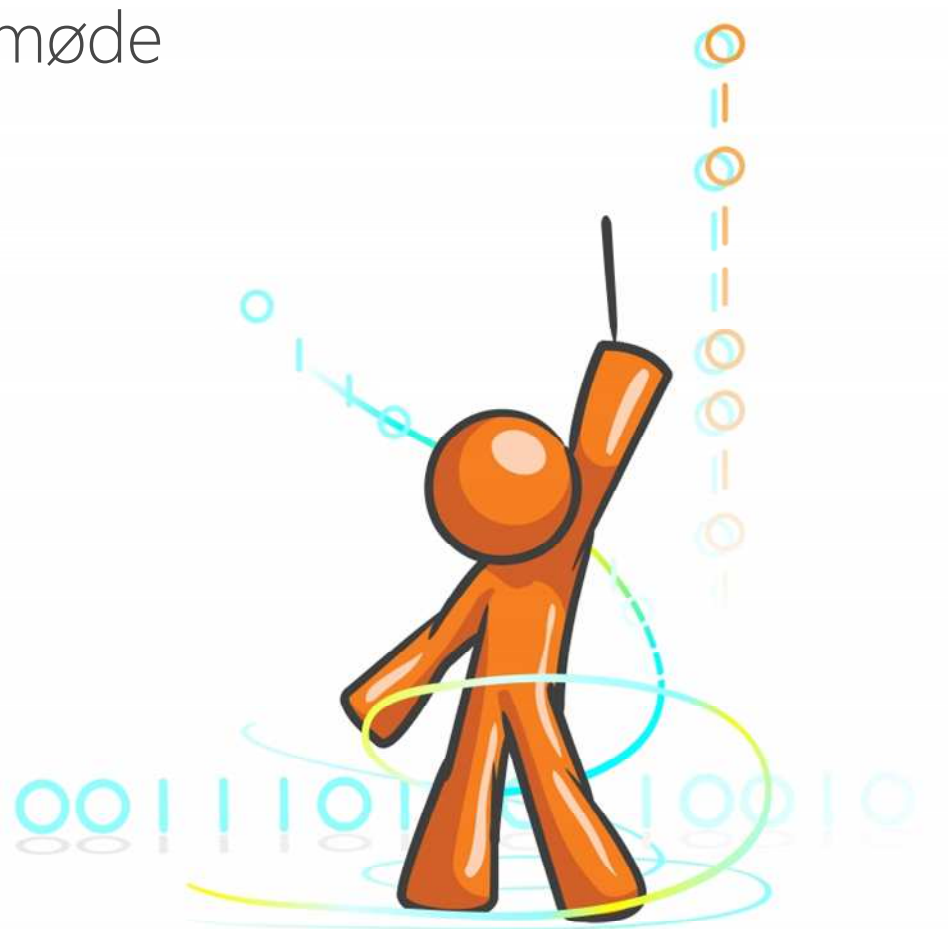


# BI med Office 365

SharePoint Brugergruppe møde  
15. august 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)

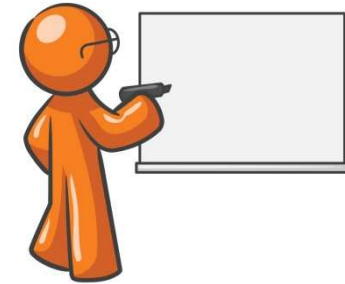


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**Microsoft**  
CERTIFIED  
IT Professional

**Microsoft**  
CERTIFIED  
Trainer

# Agenda

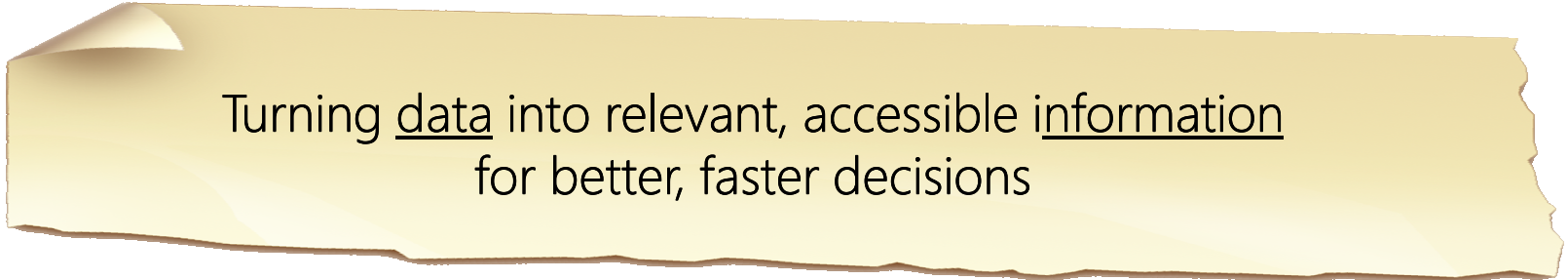


- ▶ Hvad er Business Intelligence
- ▶ Self-service BI
- ▶ Power BI end-to-end demo
  - Power Query
  - Power Pivot
  - Power View
  - (Power Map)
- ▶ Power BI Sites
  - Data Management
  - Power BI Q&A
  - Power BI Admin center
- ▶ Power BI for mobile
- ▶ Sammenligning

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# What is Business Intelligence

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

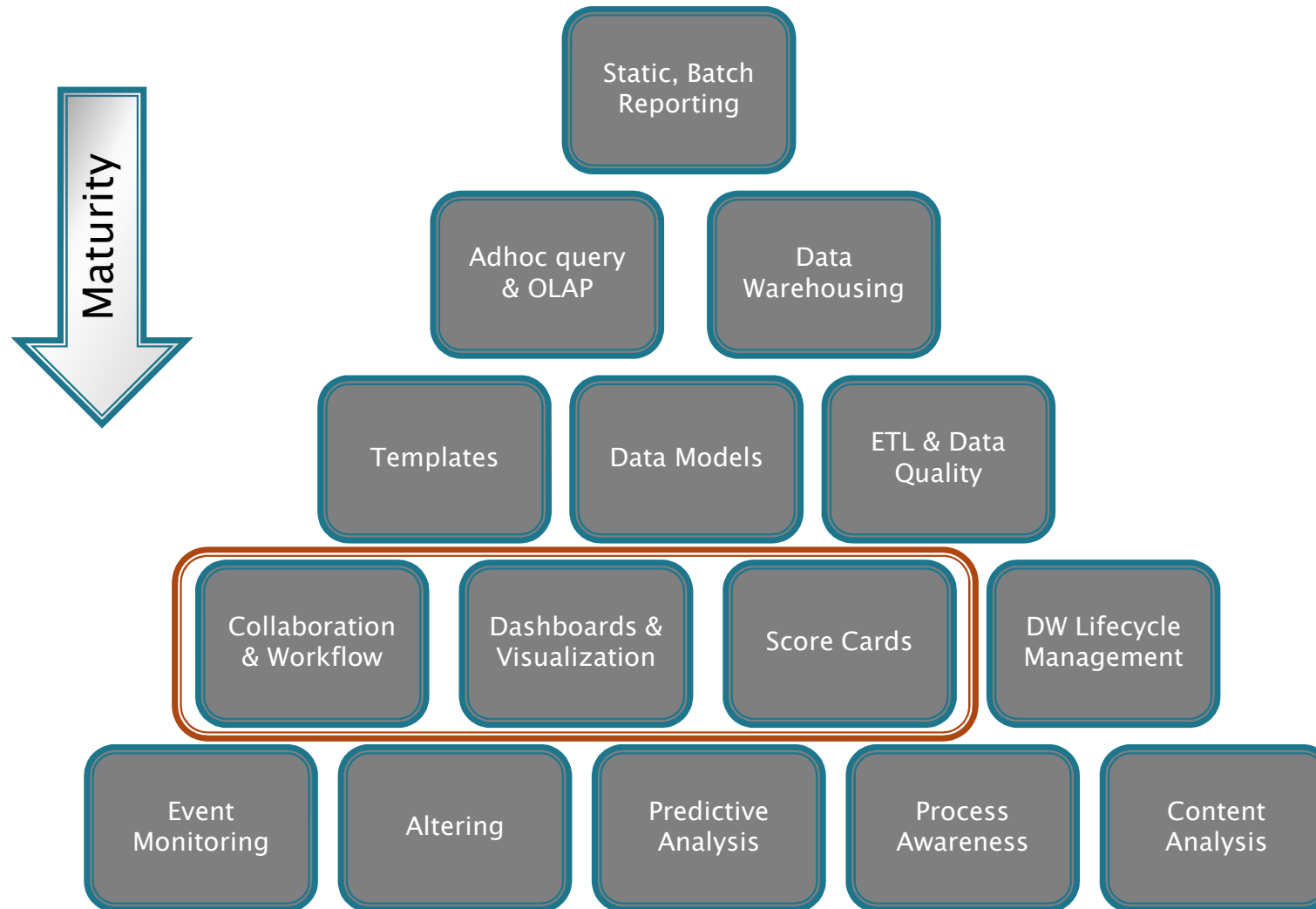


Turning data into relevant, accessible information  
for better, faster decisions

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

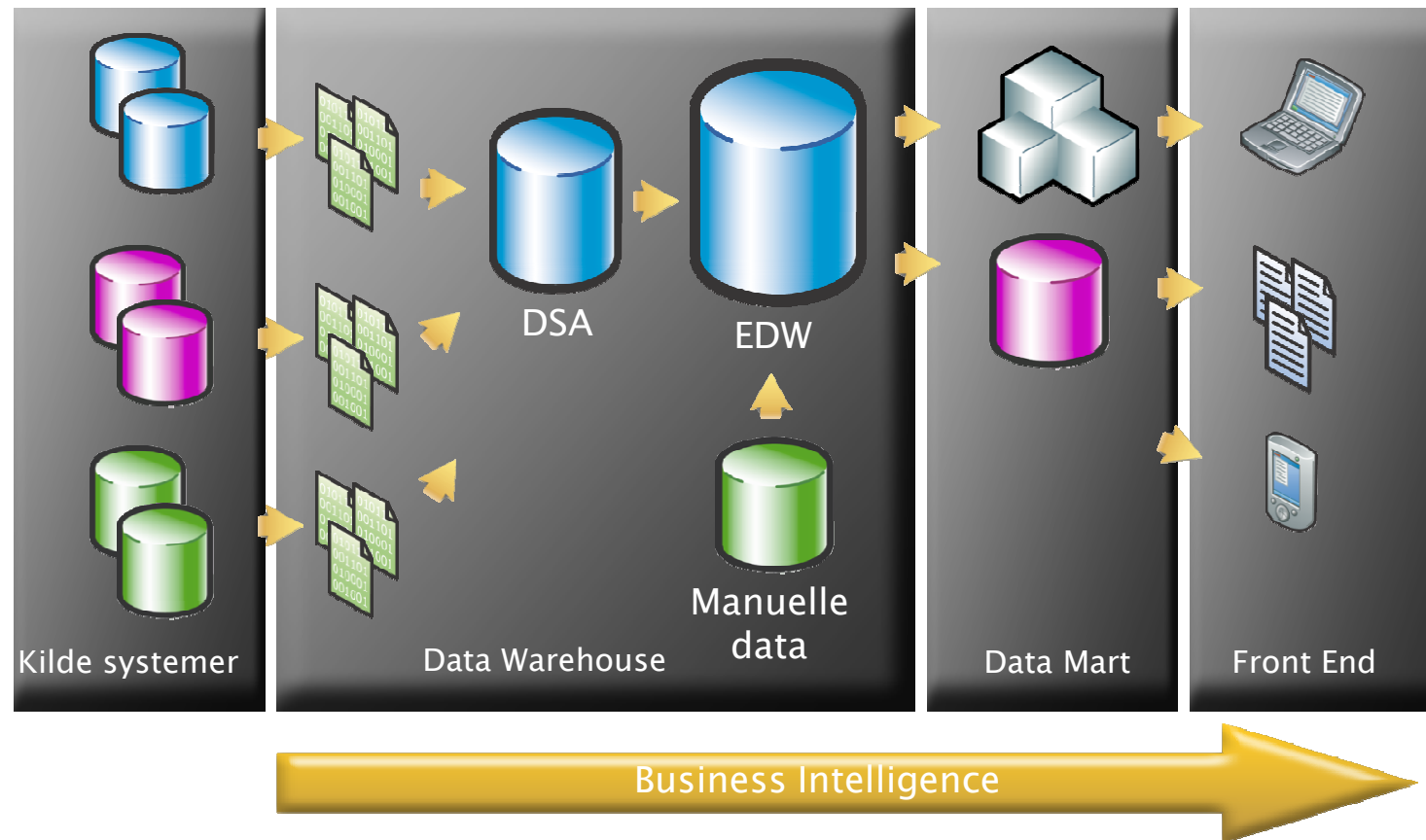
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# Business Intelligence Maturity Model



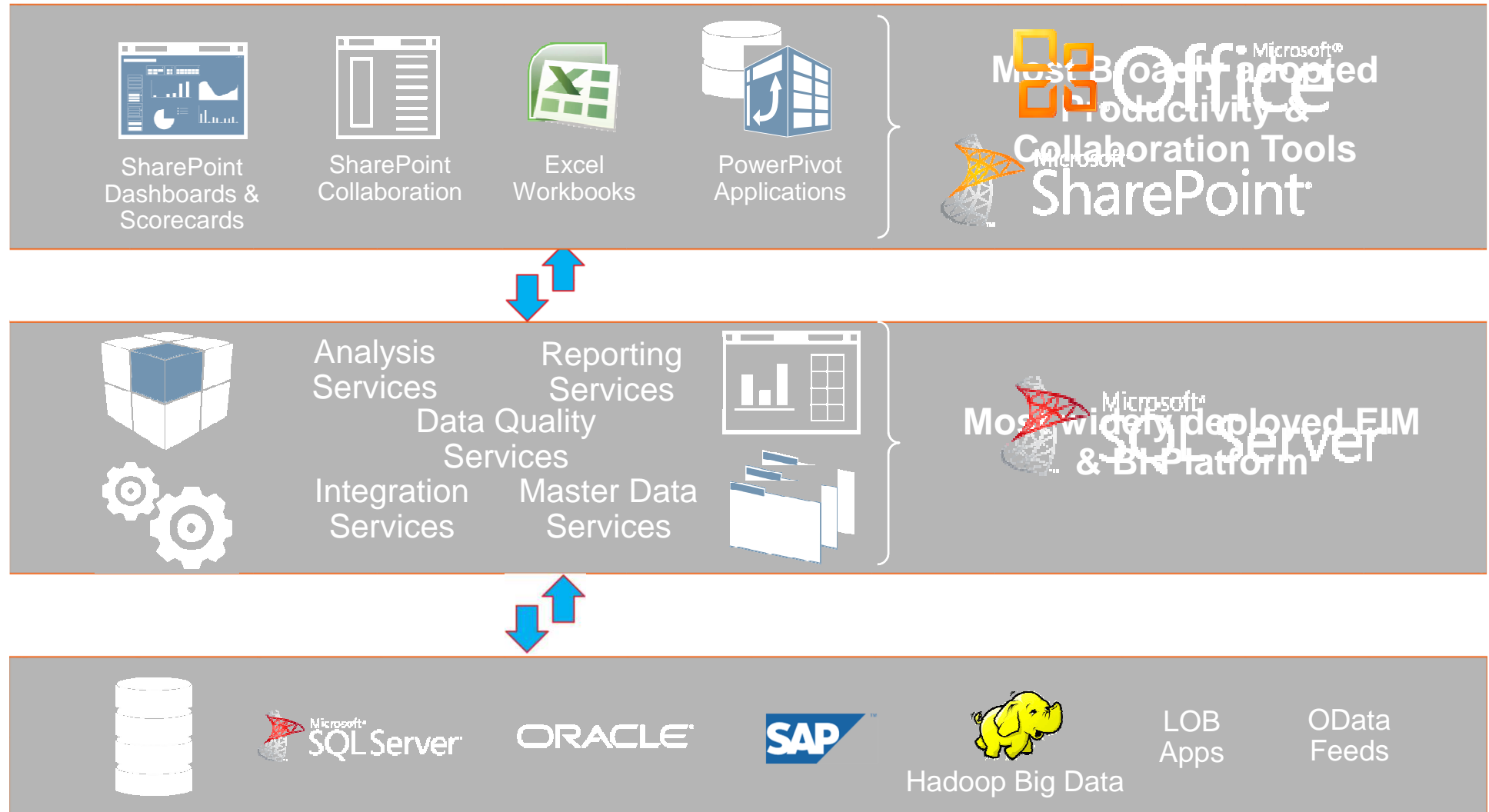
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# Information Supply Chain



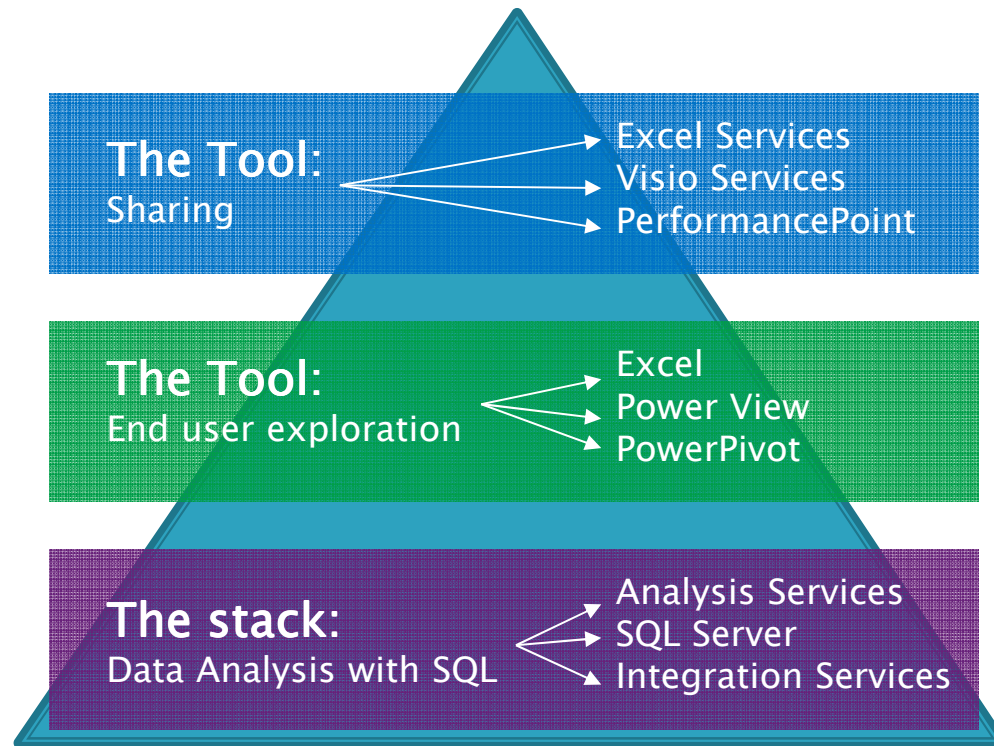
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# Microsoft Business Intelligence stack



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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.



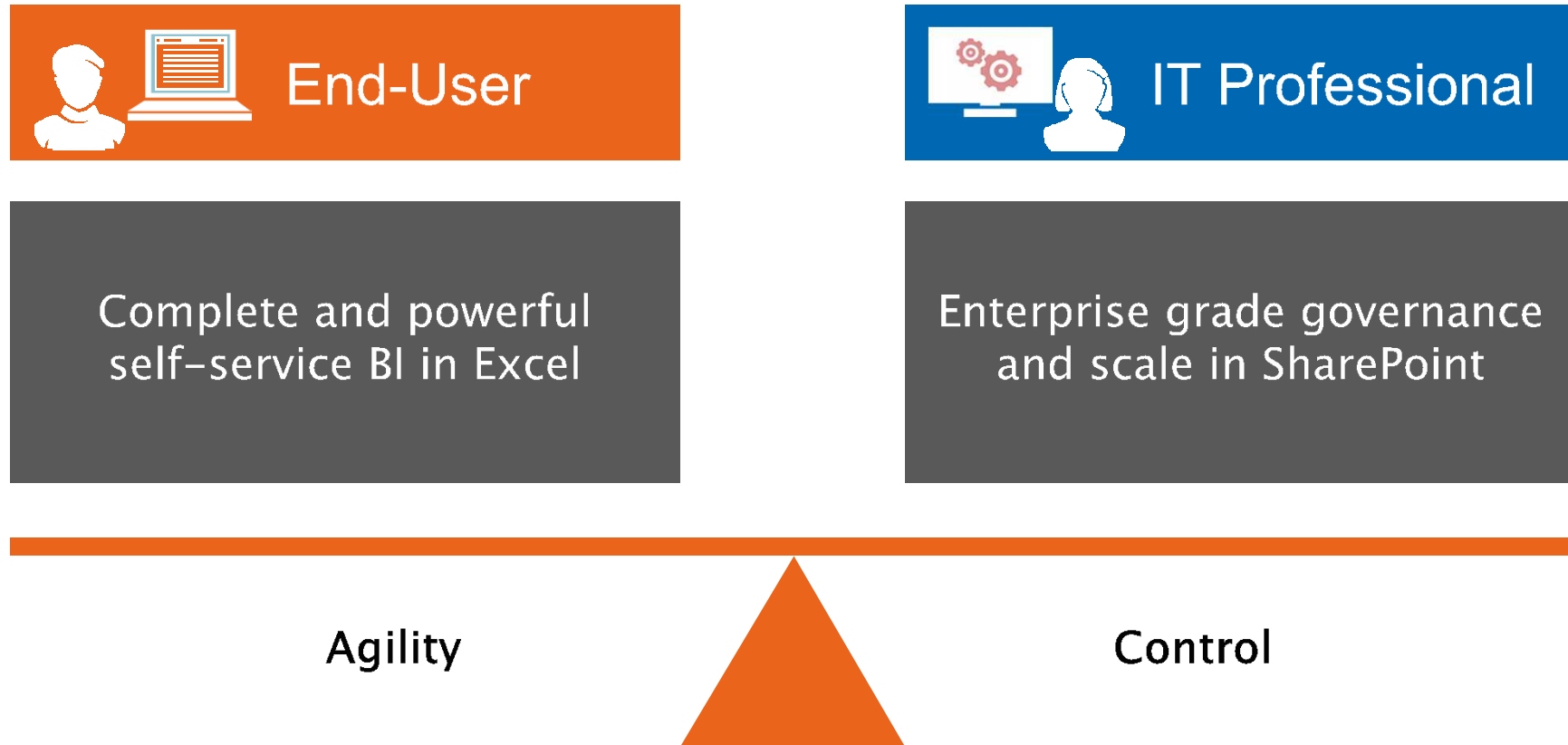
## Corporate BI

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



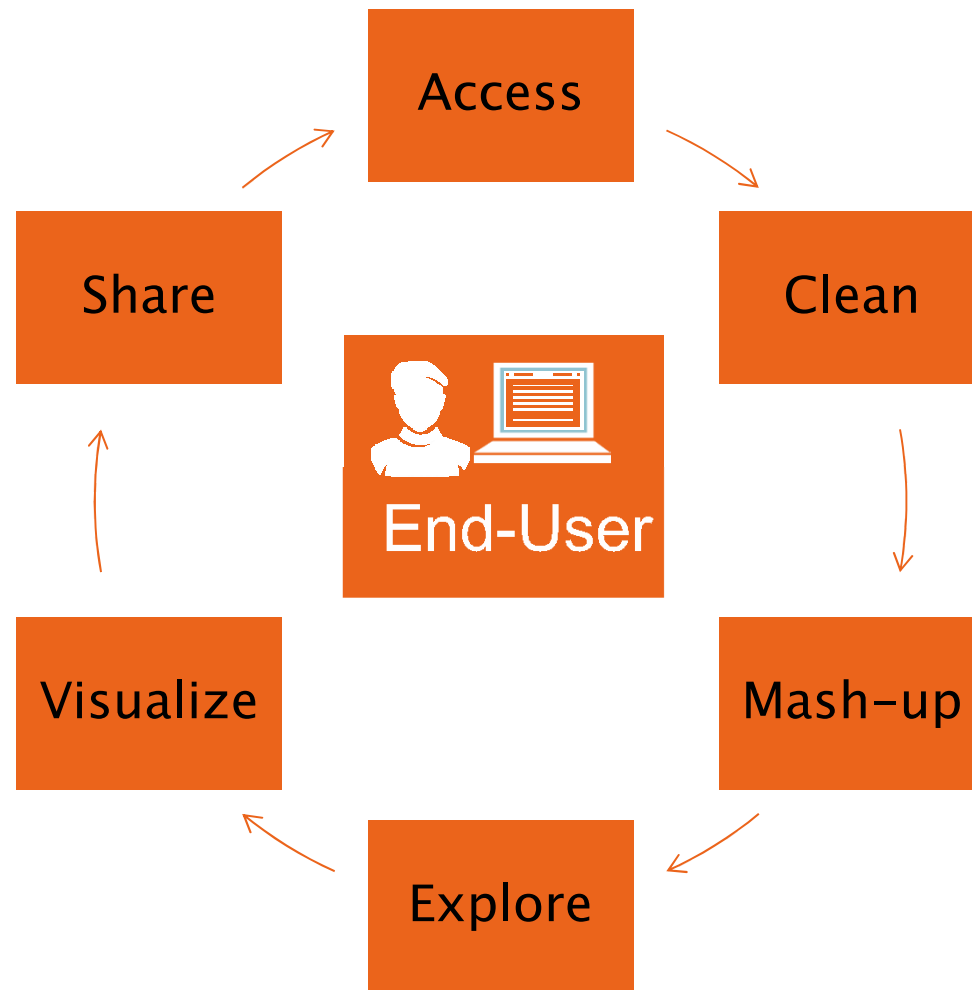
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# Business Intelligence Investments



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# Self-Service Business Intelligence



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# Power BI – Self-service BI

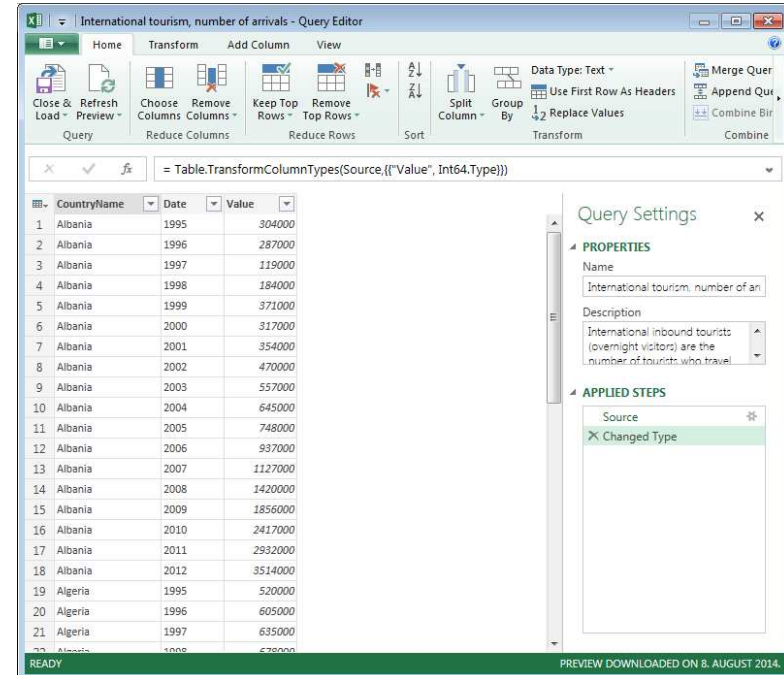
- ▶ Power Query
  - Former codename “Data Explorer”
  - Data discovery / Data Catalogue
- ▶ Power Pivot
  - 100 millioner af rækker i Excel
  - Datamodel / kube direkte i Excel workbook
- ▶ Power View
  - Visualisering og analyse
- ▶ Power Map
  - Former codename “GeoFlow”
  - Visualisering af geospatial data
- ▶ Power BI Sites / Office 365
  - Præsentation og data management
  - Q&A (Natural Language Query)

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# Power Query

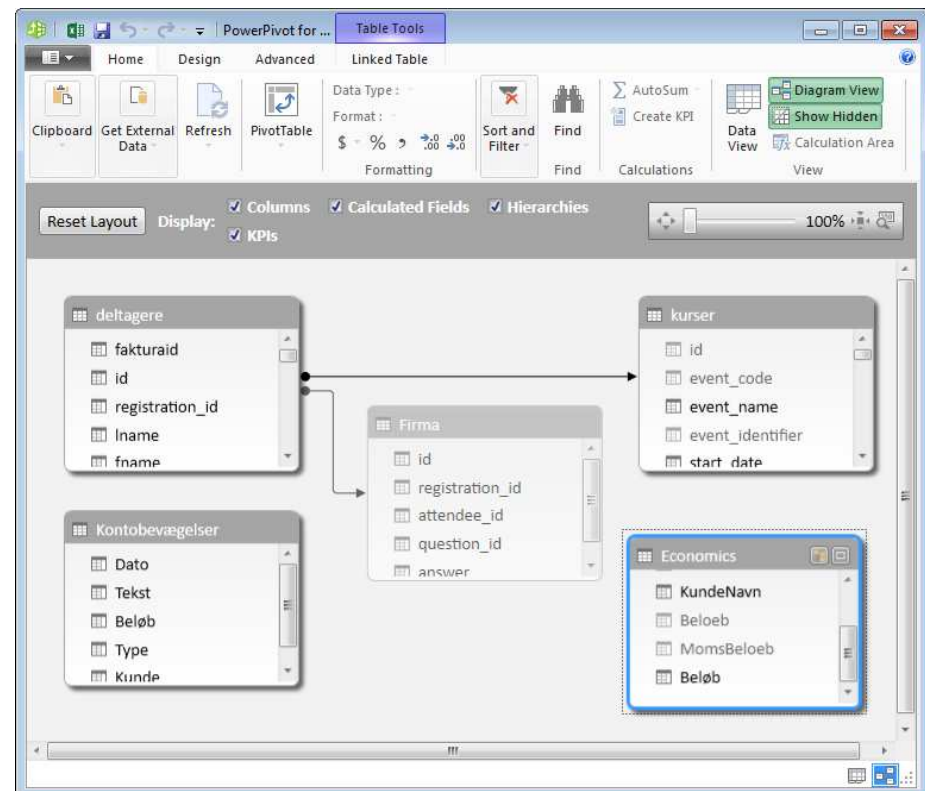
- ▶ Self-service ETL add-in til Excel 2010/2013
- ▶ Data Discovery – søg efter data
- ▶ Import fra mange forskellige datakilder
- ▶ Kombiner og transformer data
- ▶ Load til model
- ▶ Anvender the “M” Language
- ▶ Dele queries

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# Power Pivot

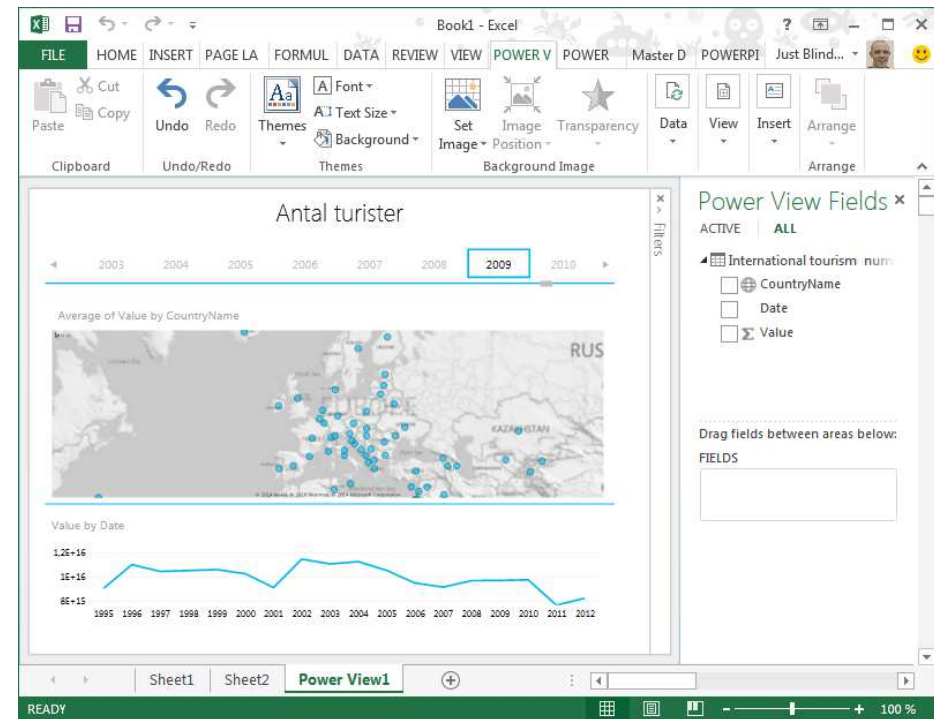
- ▶ Add-in til Excel 2010/2013
- ▶ Opbyg modeller
  - Relationer
  - Nøgletal og KPI'er
  - Hierarkier
  - Skjul kolonner
- ▶ Analyser data
- ▶ In-memory – lyn hurtigt



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# Power View

- ▶ Add-in til Excel 2013
- ▶ Visuel design oplevelse
  - Flyvende bobler
  - Kort via Bing Maps
- ▶ Meget intuitivt
- ▶ Metadata-drevet
- ▶ Ad-hoc rapportering til forretningsbrugere

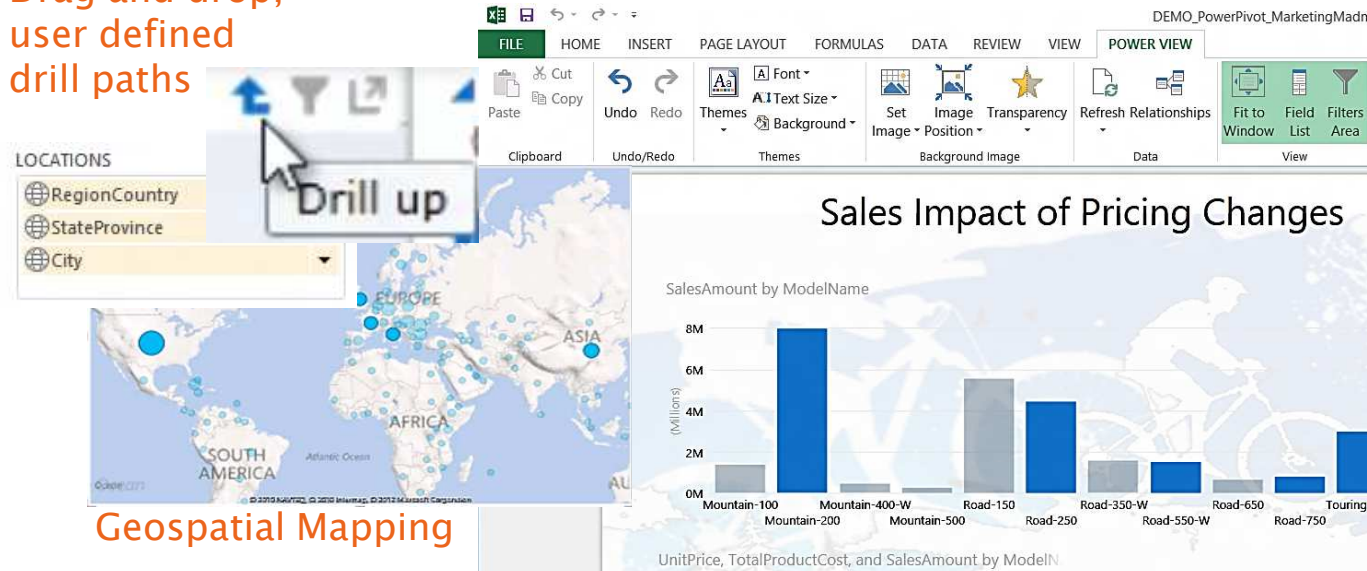


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# Power View

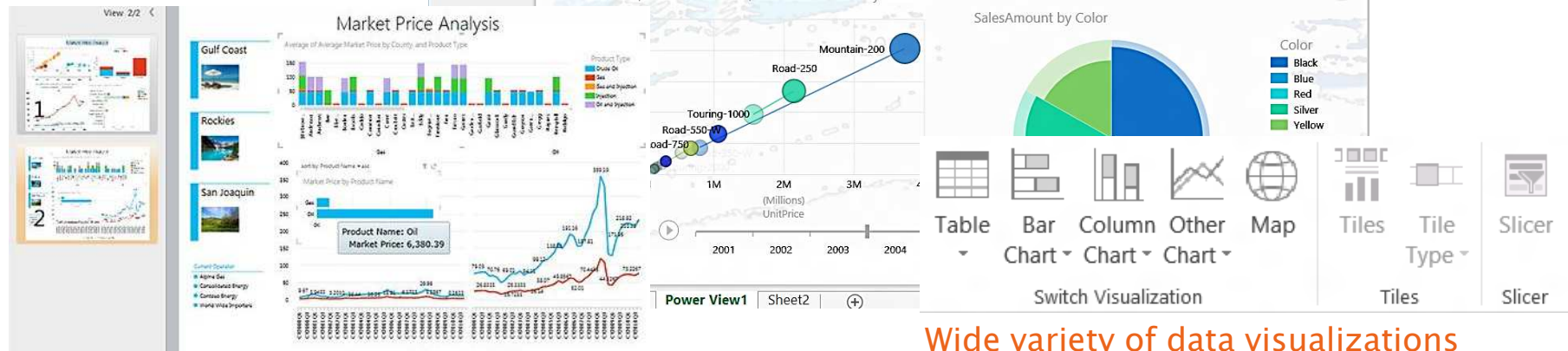
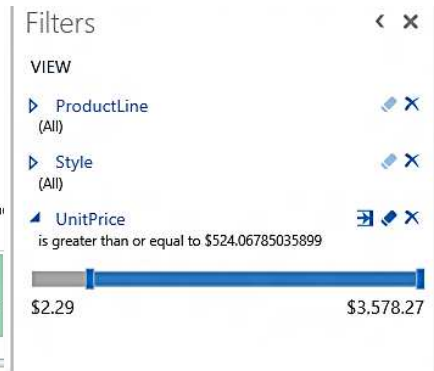
Easily develop fully interactive reports

Drag and drop,  
user defined  
drill paths



Geospatial Mapping

What-If type  
analysis with  
filtering



Wide variety of data visualizations

Save or export multiple views to PowerPoint

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# Power View feature comparison

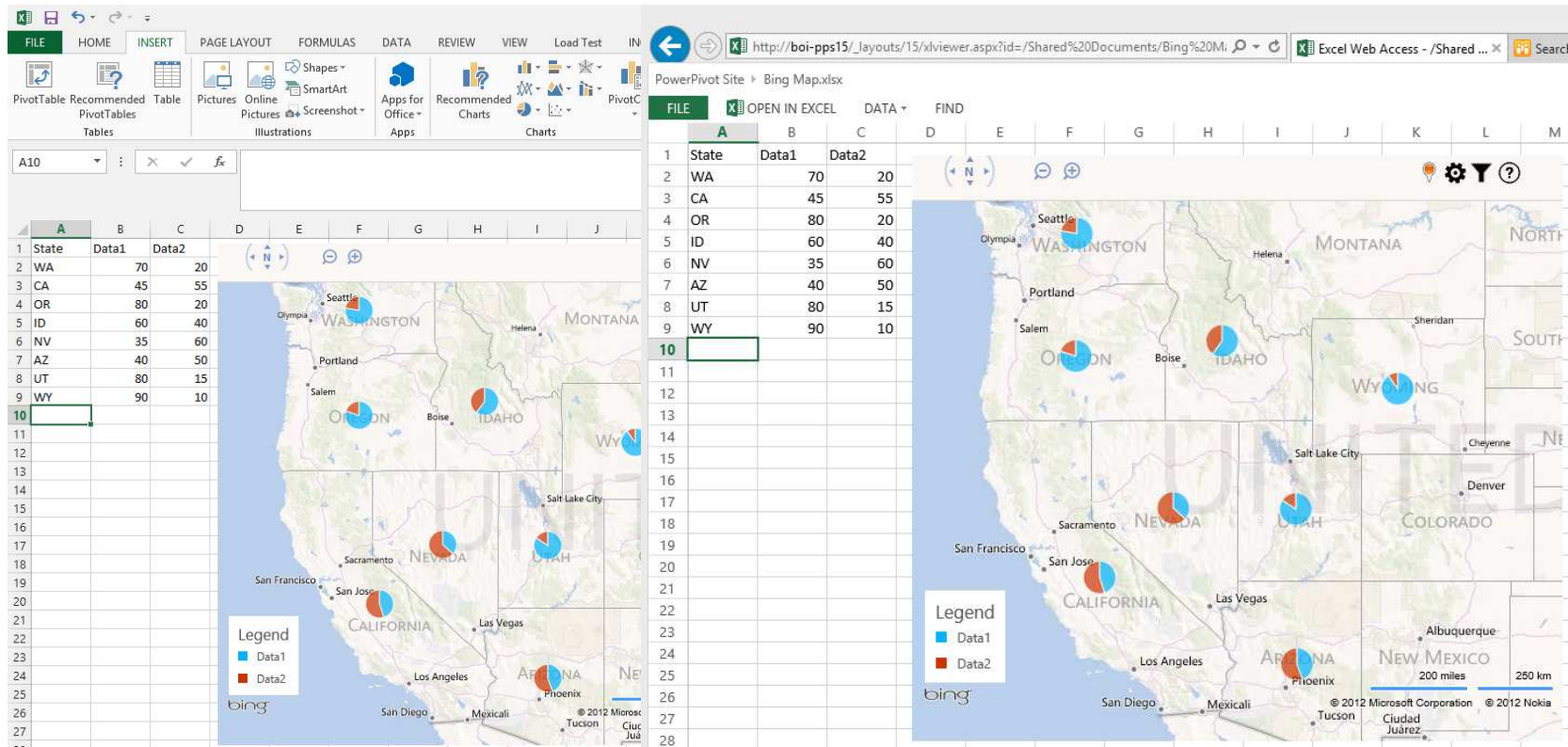
	Excel	Excel Web App	Reporting Services
<b>Design reports</b>	Yes	No	Yes
<b>Interact with reports</b>	Yes	Yes	Yes
<b>Visualizations</b>	All	All	All
<b>Cross-visualization interactivity</b>	Yes	Yes	Yes
<b>Max. workbook size</b>	Client limits	SharePoint limits (Office 365: 10 MB)	SharePoint limits
<b>Embedded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

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# Excel Services

- ▶ Publisher Excel sheets til SharePoint Online / Power BI sites
- ▶ Integration i SharePoint Online
  - Full page
  - WebPart page
- ▶ Tips og tricks
  - Fjerne gridlines
  - Anvend "Named items" og "Name manager"
  - Cube functions
  - Named sets

# Client Fidelity = Browser Fidelity



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# Power Map

- ▶ Add-in til Excel 2013
- ▶ Udforsk geo data
- ▶ Kommenter opdagelser
- ▶ 3D storytelling
- ▶ Bing-maps



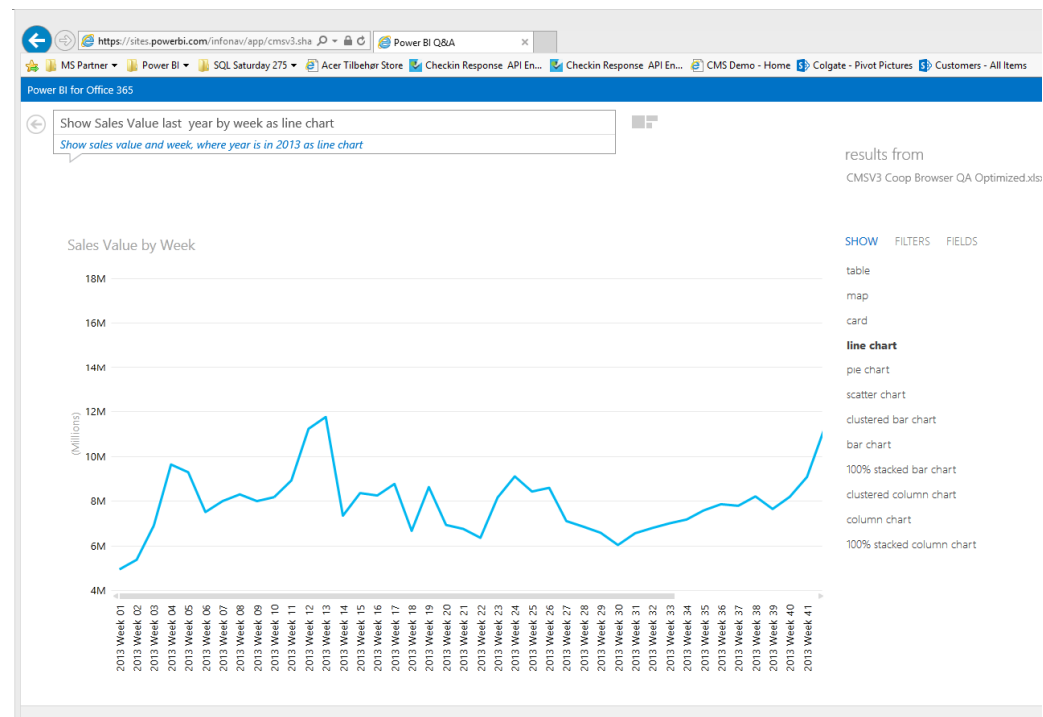
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# Power BI sites

- ▶ Share workbooks
- ▶ Power BI Q&A
- ▶ Data Management
  - Data catalog
  - Data refresh
- ▶ Power BI Admin center

# Power BI Q&A

- ▶ Stil spørgsmål og få svar - på engelsk :-)
- ▶ Udvælger bedste visualisering
- ▶ Datamodeller skal tilpasses
  - Data typer
  - Relationer
  - Synonymer



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# Data catalog

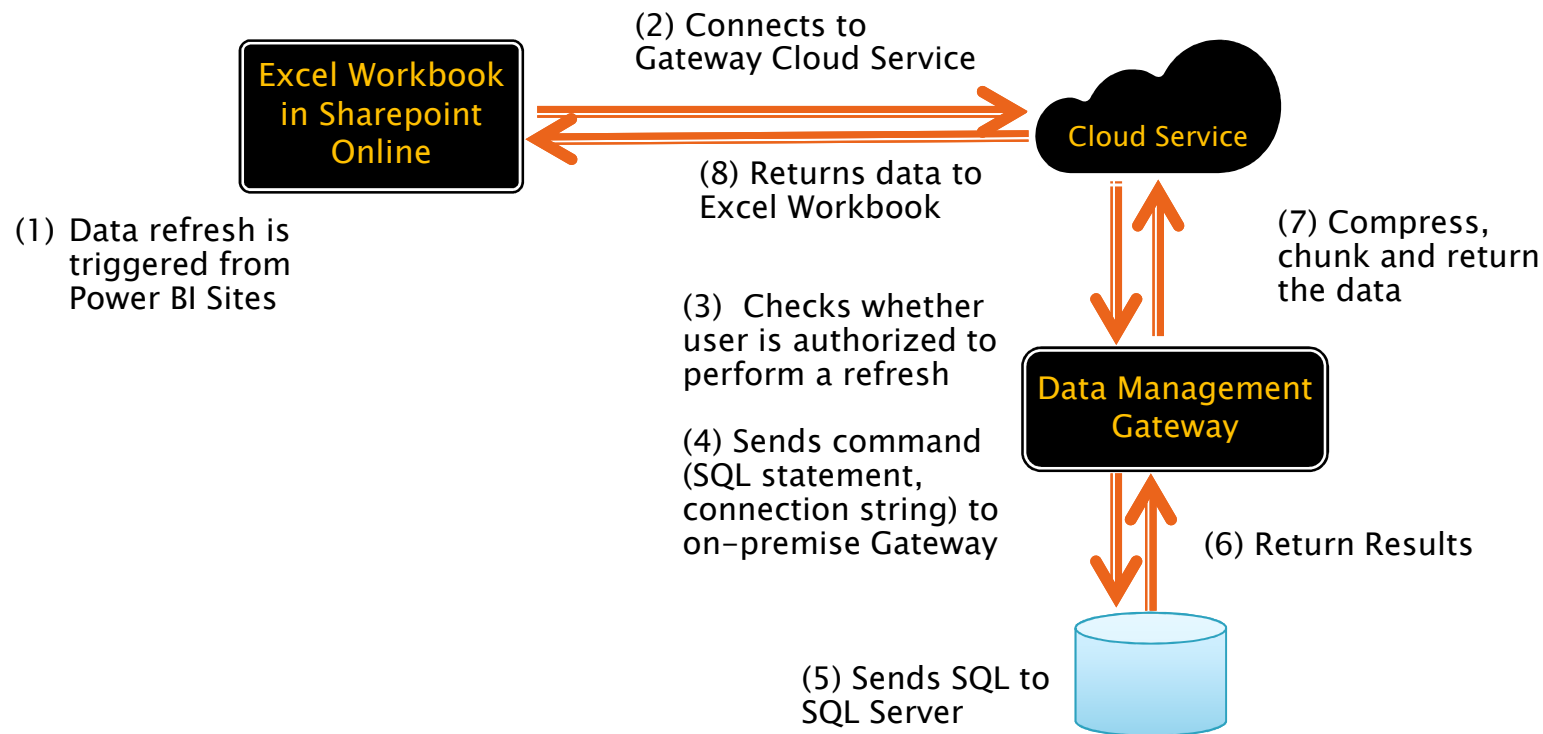
- ▶ Dele forespørgsler via Excel
  - Privat, alle eller bruger/grupper
  - "Data steward" kan certificere forespørgsler
- ▶ Søg efter forespørgsel/dataset
  - Egne, offentlige og corporate
- ▶ Refresh fra on-premise datakilder

# Power BI Admin center

- ▶ Konfigurer datakilder
- ▶ Installer "data management gateway"
- ▶ Tilføj brugere og angiv rettigheder
- ▶ Overblik over systemtilstand/log



# Data Refresh from Power BI Sites



# Power BI for mobile

- ▶ Native app til Windows 8/RT
  - IOS lige på trapperne.
  - Adgang til Power View rapporter
  - Mangler features
- ▶ Browser
  - HTML5
  - Mangler features



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# Sammenligning

- ▶ Office 365 / SharePoint Online
  - Max 10 mb workbooks
- ▶ Power BI site
  - Max 250 mb workbooks
  - Skeduleret data refresh, Q&A, data catalog
  - Mobile adgang via native app
- ▶ On premise
  - Max 2 gb workbooks
  - Data refresh til alle typer kilder
  - Datamodel og rapport kan være adskilt
  - Ingen Q&A og ingen data catalog
  - Mobile adgang via browser
  - Reporting Services og PerformancePoint Services

# Sammenligning

	O365 E3 / E4	Power BI	On-prem
SharePoint Online	●		
Excel Self-Service BI	●	●	●
Excel workbook size limit	10MB	250MB	2048MB
Scheduled Data Refresh		(●) <sup>1</sup>	●
Power BI Site		●	
Q&A Natural Language		●	
Native mobile BI app		●	
Enterprise Data Search		●	
PerformancePoint Services			●
Reporting Services		(●) <sup>2</sup>	●

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## Price

If you currently subscribe to E3 or E4 you have access to SharePoint Online Plan 2 and Excel and need the following:

## Power BI

Add-on for [E3/E4](#) Subscribers

~~\$33~~ \$20\* user/month

(billed annually ~~\$396~~ \$240/year)

Buy Now

Free Trial

If you have either Office 365 ProPlus or Office 2013 Professional Plus you have access to Excel and need the following:

## Power BI

Standalone

\$40 user/month

(billed annually \$480/year)

Buy Now

Free Trial

If you don't have the latest version of Excel or SharePoint Online Plan 2 you will need the following:

## Power BI

Standalone + [Office 365 ProPlus](#)

\$52 user/month

(billed annually \$624/year)

Buy Now

Free Trial

## Power BI for Office 365

BI Sites



Scheduled Data Refresh



Enterprise Data Search



Data Stewardship



Mobile BI Service



Natural Language Query



## SharePoint Online Plan 2



## Excel

Data Discovery & Access



Modeling & Analysis



Visualization



# Flere ressourcer

- ▶ Power BI: <http://www.microsoft.com/en-us/powerbi/>
- ▶ Power BI blog: <http://blogs.msdn.com/b/powerbi/>
- ▶ Online Power View demos:  
<http://www.microsoft.com/en-us/powerBI/solutions/demo/fanalytics.aspx>
- ▶ Forskel mellem on-premise og Power BI:  
<https://channel9.msdn.com/Events/SharePoint-Conference/2014/SPC2992>