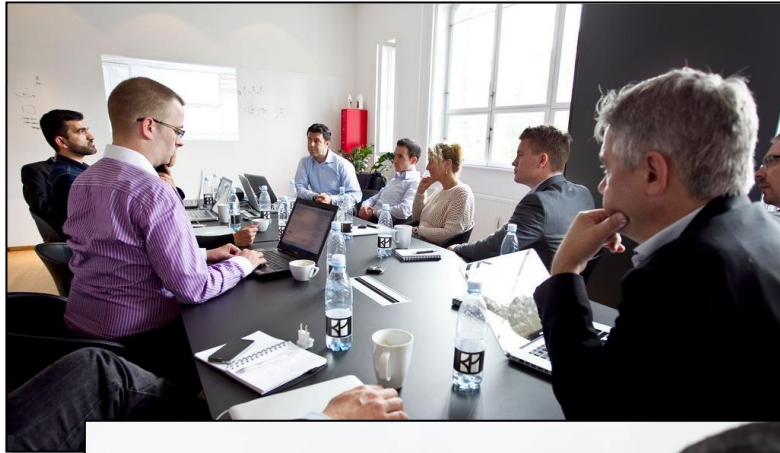# Power BI

# Power BI

BI in the cloud
Tools for self service
On any device…

# Agenda – Expect many demos…

- About Me
- What is Power BI for Office 365
- Power Query (Former codename "Data Explorer")
- Power Pivot (Former name PowerPivot)
- Power View
- Power Map (Former codename "GeoFlow")
- Power BI Sites
- Q&A (Natural Language Query)
- Mobile BI (Codename "Helix")
- Data Management Gateway
- Data Catalogue
- Data size limit etc.

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# About me
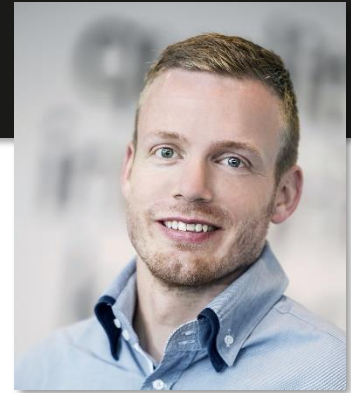
- David Bojsen [dlb@kapacity.dk](mailto:dlb@kapacity.dk)

- 34 years old, married, 2 children (6 and 16)

- 7 years of experience with SQL Server and Microsoft BI

- 10 years of experience with C# and .NET

- BI Manager at TELMORE since April 2009

- **Senior Business Intelligence Consultant at Kapacity since April 2013**

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# What is Power BI for Office 365

- Not one single product but a lot of tools that add-in to Excel 2013
    - Microsoft Office 2013 Professional Plus needed
- Excel and Power Pivot are core elements
- An expansion of Office 365
- Complete self-service BI solution
- Only availible in the cloud (Office 365), but on-premise will follow

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# Power Query – Getting data into model

## Discover & Combine

Search and access internal & external data

Clean, transform, and shape data

Merge and combine data from multiple sources

## Analyze & Model

Lightning fast analytics with in-memory technology

Model relationships, custom measures, hierarchies, and KPI's

## Visualize & Explore

Bring your data to life with interactive visualization

Explore data in new ways to discover hidden insights

### Power Query – formerly project "Data Explorer"



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# Demo

# Power Pivot – Manage data model

| | |
|---|---|
| **Discover & Combine** | Search and find internal & external data |
| | Clean, transform, and shape data |
| | Merge and combine data from multiple sources |
| **Analyze & Model** | Lightning fast analytics with in-memory technology |
| | Model relationships, custom measures, hierarchies, and KPI's |
| **Visualize & Explore** | Bring your data to life with interactive visualization |
| | Explore data in new ways to discover hidden insights |


Power Pivot

# Demo

# Power View – Visualize data

**Discover & Combine**

Search and find internal & external data

Clean, transform, and shape data

Merge and combine data from multiple sources

**Analyze & Model**

Lightning fast analytics with xVelocity in-memory technology

Model relationships, custom measures, hierarchies, and KPI's

**Visualize & Explore**

Bring your data to life with interactive visualization

Explore data in new ways to uncover hidden insights

**Power View**

# Demo

# Power Map – Visualize geographical data

**Discover & Combine**

Search and find internal & external data

Clean, transform, and shape data

Merge and combine data from multiple sources

**Analyze & Model**

Lightning fast analytics with xVelocity in-memory technology

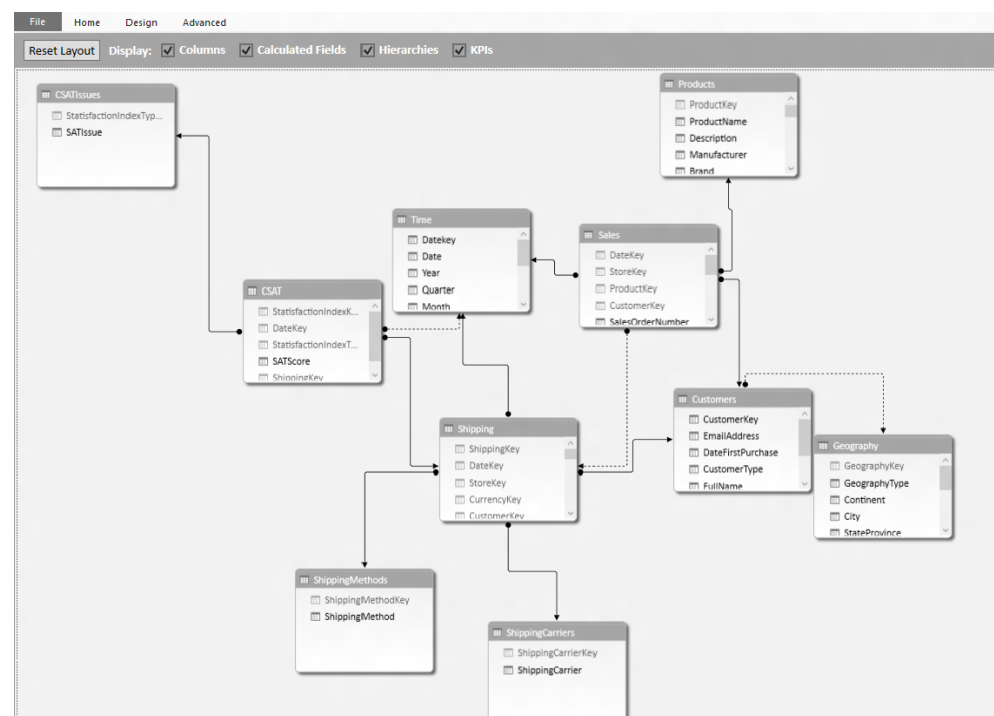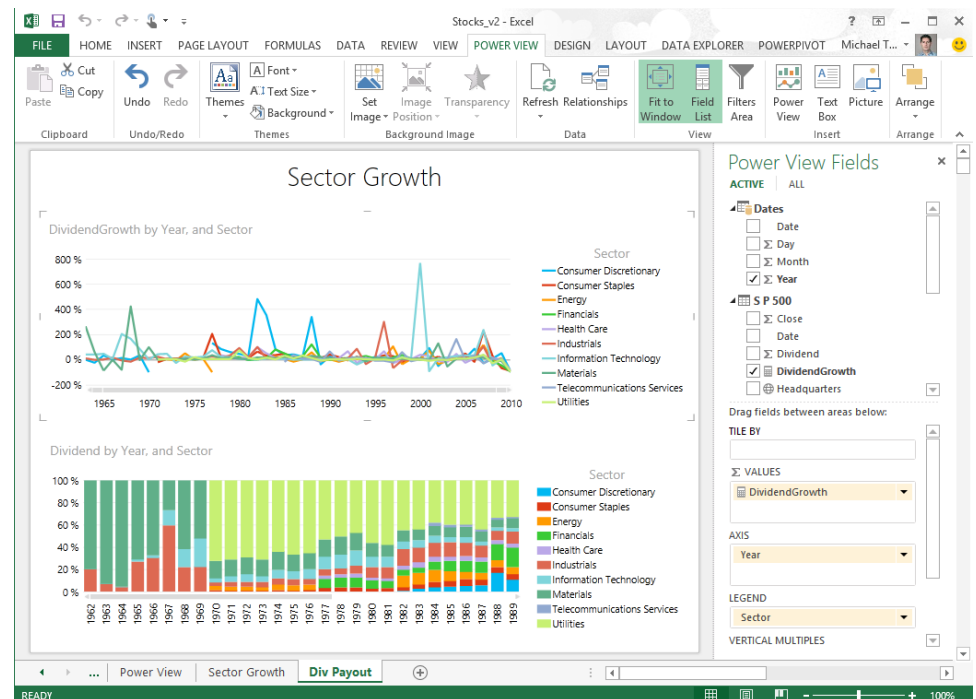Model relationships, custom measures, hierarchies, and KPI's
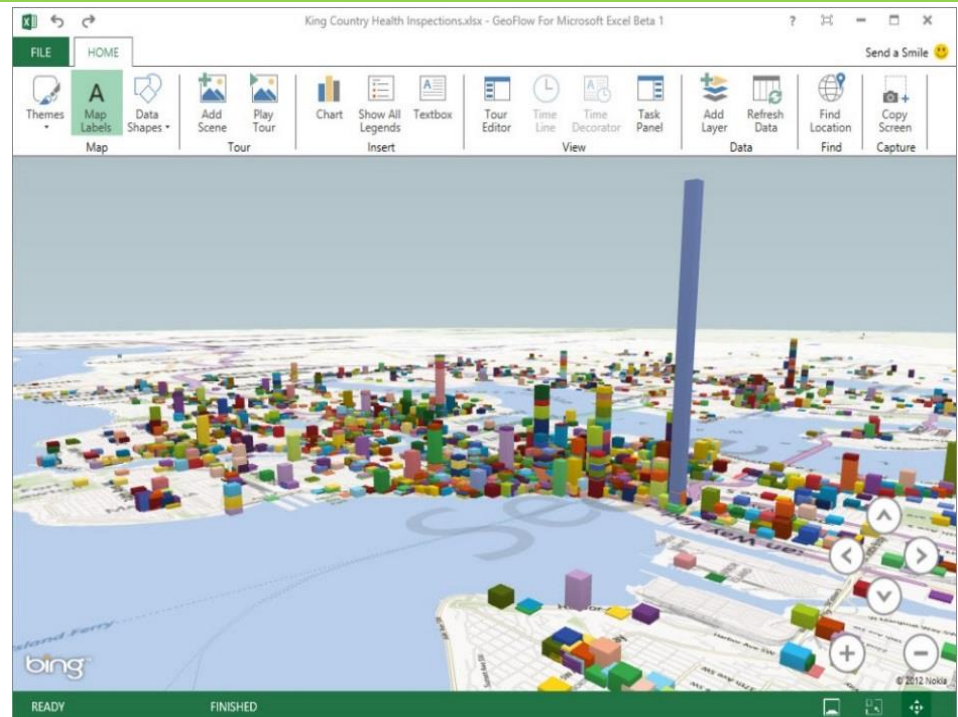
**Visualize & Explore**

Bring your data to life with interactive visualization

Explore data in new ways to discover hidden insights

## Power Map – formerly project "Geoflow"



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# Demo

# Power BI sites

| | |
|---|---|
| **Share Data & Insights** | Easily setup powerful BI sites |
| | Share live reports with data refresh from on-prem sources |
| | Manage and share data sets and monitor usage |
| **Ask Questions & Get Answers** | Ask questions in the natural language speech bubble |
| | Get back answers as the system generates data visualizations |
| *Q&A* | |
| **Connect from Anywhere** | View Power View reports on any device with HTML5 support |
| | Discover and explore all your favorite reports with the mobile BI app |



**Power BI Site in Office 365**

# Q&N – Natural Language Query

## Share Data & Insights

Easily setup powerful BI sites

Share live reports with data refresh from on-prem sources

Manage and share data sets and monitor usage

## Ask Questions & Get Answers

Ask questions in the natural language speech bubble

Get back answers as the system generates data visualizations
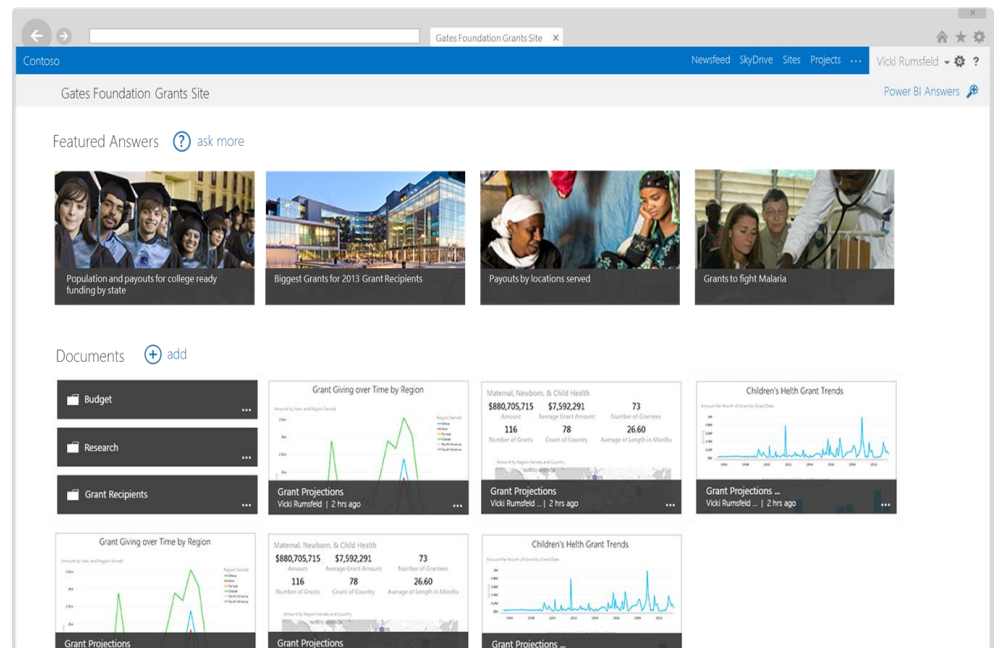
### Q&A

## Connect from Anywhere

View Power View reports on any device with HTML5 support

Discover and explore all your favorite reports with the mobile BI app

## Data Stewardship experience
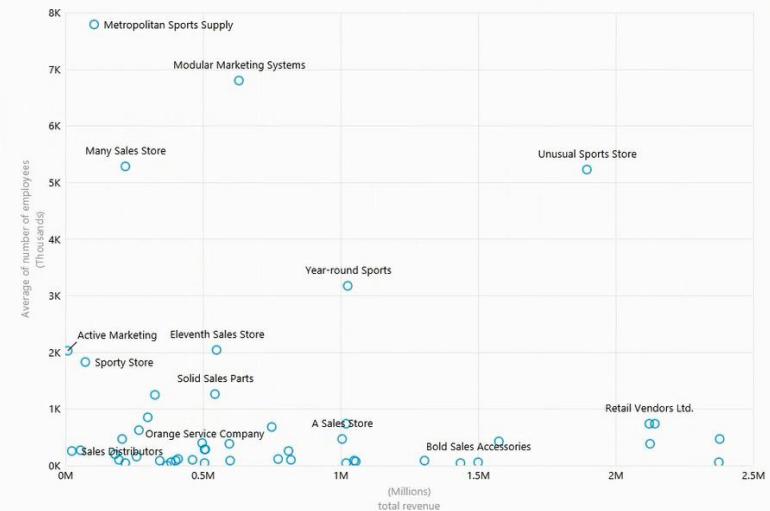
# Mobile BI

## Share Data & Insights

Easily setup powerful BI sites

Share live reports with data refresh from on-prem sources

Manage and share data sets and monitor usage

## Ask Questions & Get Answers

Ask questions in the natural language speech bubble

Get back answers as the system generates data visualizations

### Q&A

## Connect from Anywhere

View Power View reports on any device with HTML5 support

Discover and explore all your favorite reports with the mobile BI app

## HTML5 & Mobile BI app



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# Demo

# Data Management Gateway

| | |
|---|---|
| **On-Premise Data Access** | Enable manual or scheduled data refresh for reports in Office 365 to on-premise sources |
| **Enterprise Data Search** | Enable ease of discovery with data search across on premise data |
| **Data Usage & Telemetry** | Monitor data usage across your organization to optimize system investments |

## Data Management Gateway



DATA ▾   FIND

**Refresh Selected Connection**
Refresh the data connection for the currently selected PivotTable or PivotChart.

**Refresh All Connections**
Refresh all data connections in the workbook.

**Calculate Workbook**
Recalculate the workbook.

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# Data Management Gateway



Public data published by Microsoft

Catalog of Public data

Data Catalogue of corporate data

Publish via Power Query

Publish via Admin Center

IW (query author)

Data Steward

IT Admin

Corporate Data

Data Management Gateway

Legend:
- Publish
- Federated (automatically)
- Refer to data source
- Use tool

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# Data Catalogue

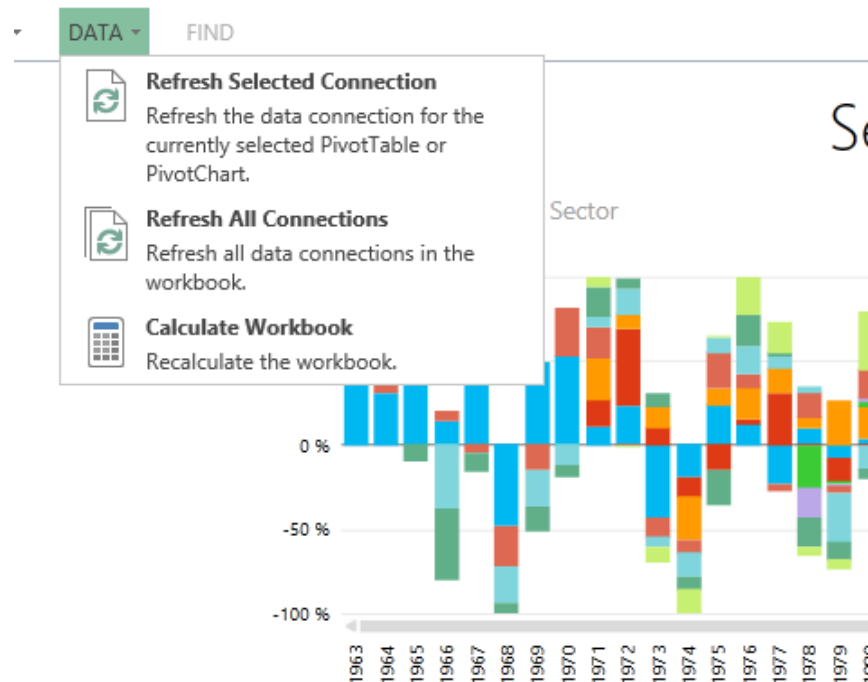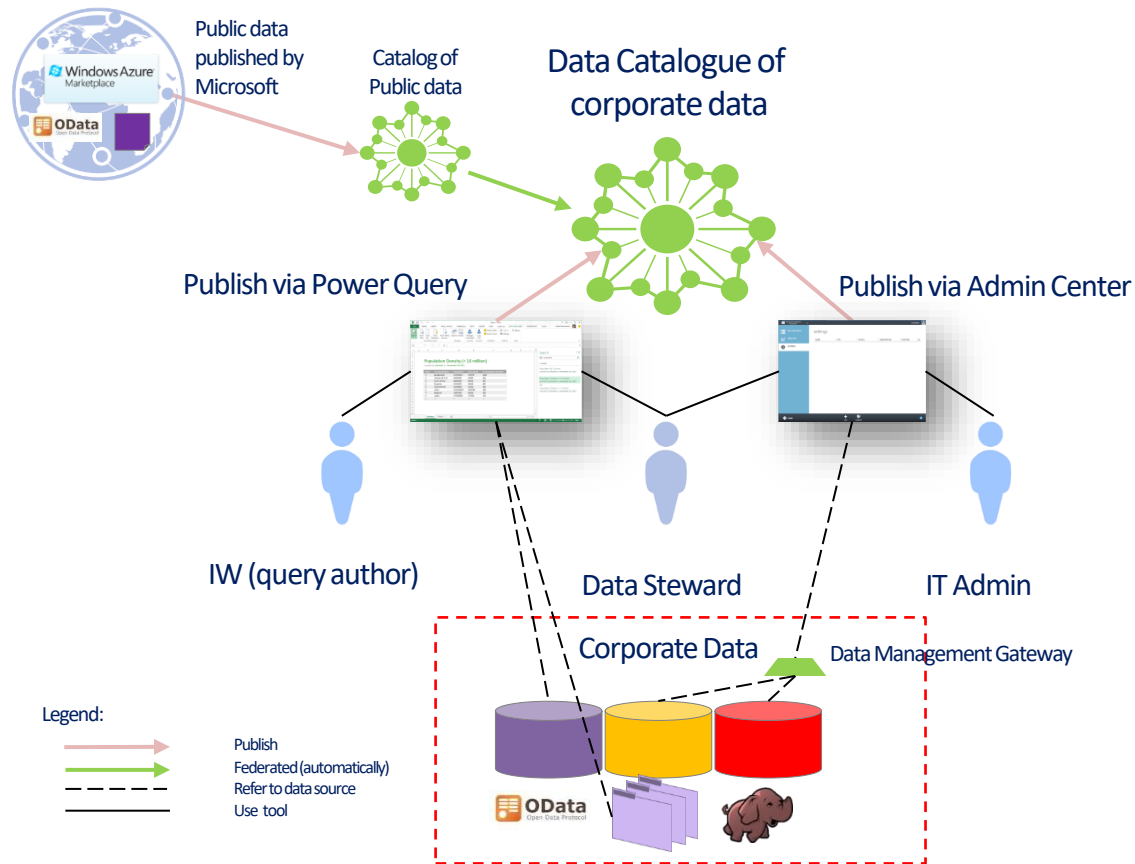| | |
|---|---|
| **On-Premise Data Access** | Enable manual or scheduled data refresh for reports in Office 365 to on-premise sources |
| **Enterprise Data Search** | Enable ease of discovery with data search across on premise data |
| **Data Usage & Telemetry** | Monitor data usage across your organization to optimize system investments |



Data Catalogue

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# Data Catalogue

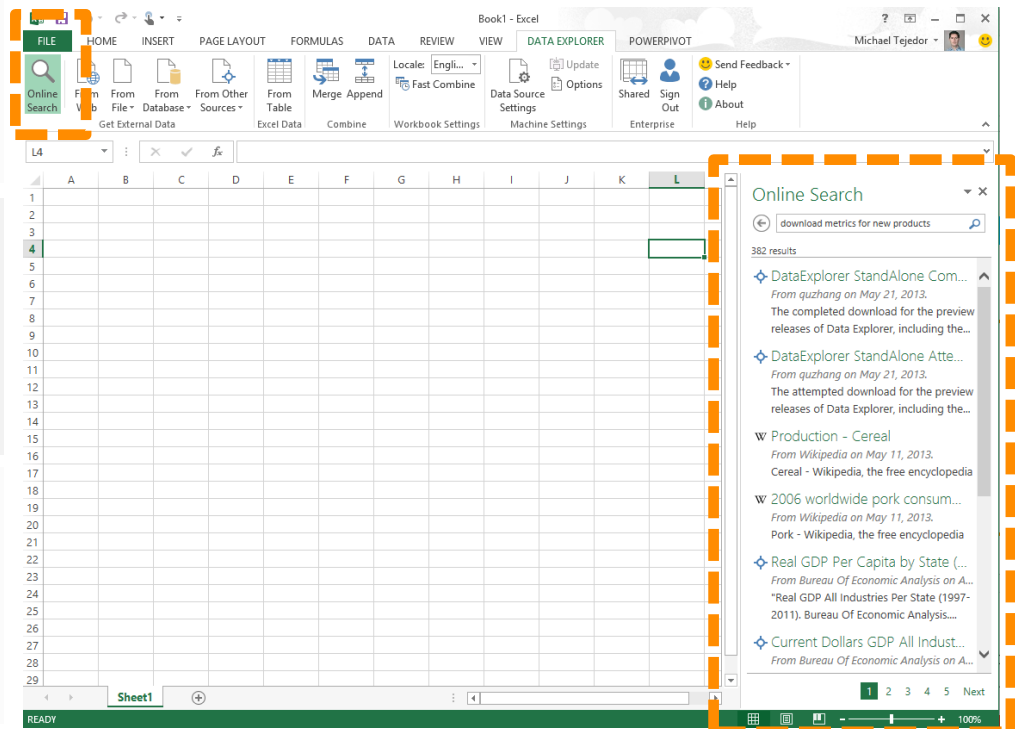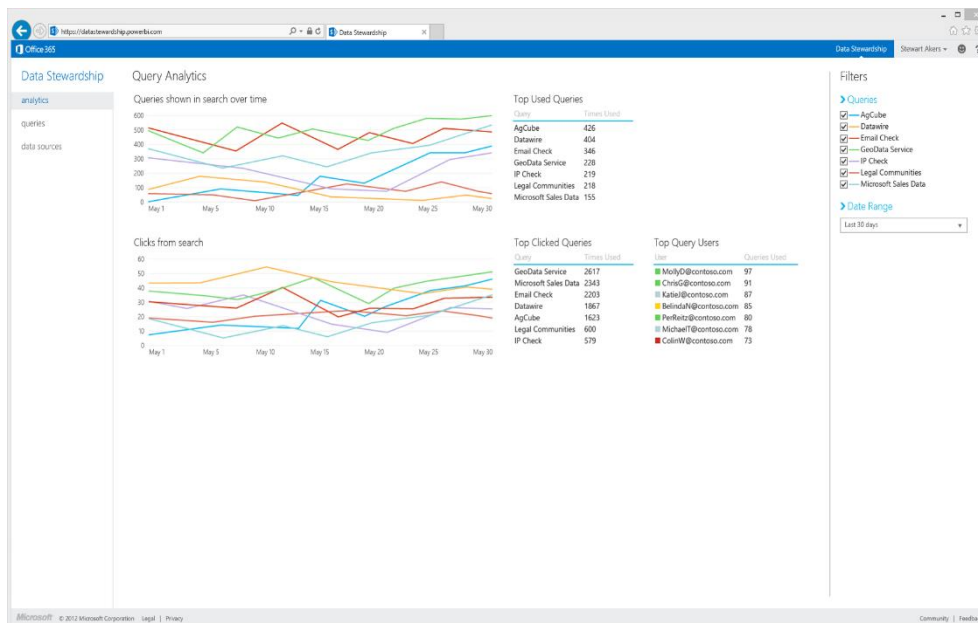| On-Premise Data Access | Enable manual or scheduled data refresh for reports in Office 365 to on-premise sources |
|---|---|
| Enterprise Data Search | Enable ease of discovery with data search across on premise data |
| Data Usage & Telemetry | Monitor data usage across your organization to optimize system investments |

## Data Catalogue

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# Demo

# Data size limits

| | O365 E3 | Power BI |
|---|---|---|
| **Excel Self-Service BI** | ● | |
| **SharePoint Online** | ● | |
| **Excel Web Viewing Limit** | 10MB | 250MB |
| **Scheduled Data Refresh** | | ● |
| **Power BI Site** | | ● |
| **Natural Language Query** | | ● |
| **Mobile BI Client** | | ● |
| **Data Stewardship** | | ● |
| **Enterprise Data Search** | | ● |

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# References

- [www.powerbi.com](www.powerbi.com)
- [http://eriksvensen.wordpress.com](http://eriksvensen.wordpress.com)
- [www.kapacity.dk](www.kapacity.dk)

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# Questions

?

Feel free to email me at [dlb@kapacity.dk](mailto:dlb@kapacity.dk)

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# Thank you for your time