

# Power to the Pivot – Practical Intro to PowerPivot 2012

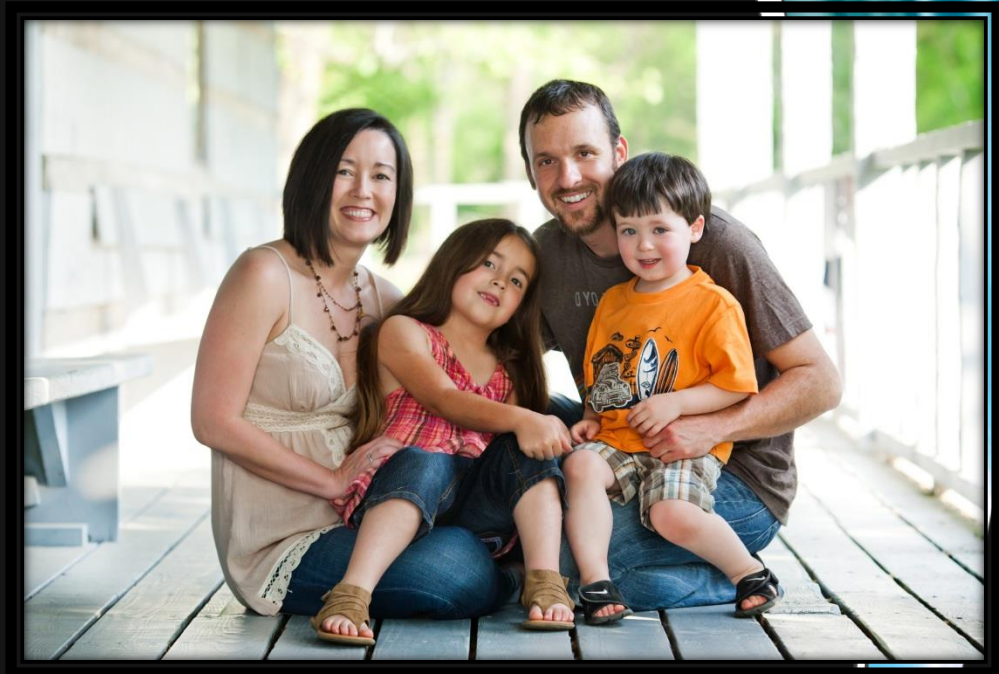
Hope Foley



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# Who Am I?

- ❑ Microsoft SQL Server MVP
- ❑ Microsoft Team Lead
- ❑ SQL Server DBA/Consultant
- ❑ (MCITP: Database Administration in 2005 and 2008)
- ❑ In IT industry for 12 years. DBA for 6 years. I've been with PTI for 4 years.
- ❑ Worked for various industries such as large insurance companies, government entities, large and small corporations, hospitals and medical related businesses and on and on



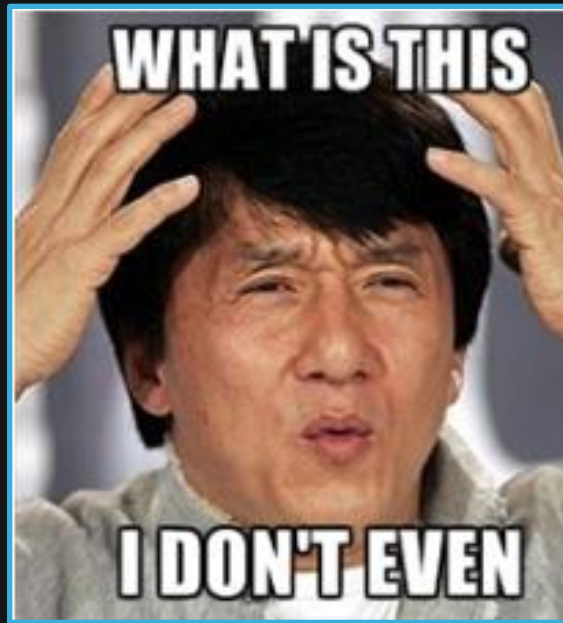
# Agenda

- What is PowerPivot?
- Intro to BISM
- What's New to PowerPivot 2012
- Demos a plenty
- Wrap up & questions



# What the heck is PowerPivot?

- ❑ PowerPivot is an Excel add-in that extends the capabilities of Excel to create self-service BI solutions
- ❑ It takes the extremely familiar Excel environment and extends capabilities
- ❑ Allows for manipulation of millions of rows of data – throw 1 million row limit out window
- ❑ High compression keeps file sizes in check



# Two Flavors

- ❑ PowerPivot for Excel – addin for Excel (client side only)
- ❑ PowerPivot for SharePoint – add in for SharePoint that allows data manipulation and sharing of workbooks via Analysis Services/Excel Services/PowerPivot System Service/SQL Server PowerPivot (server side processing)

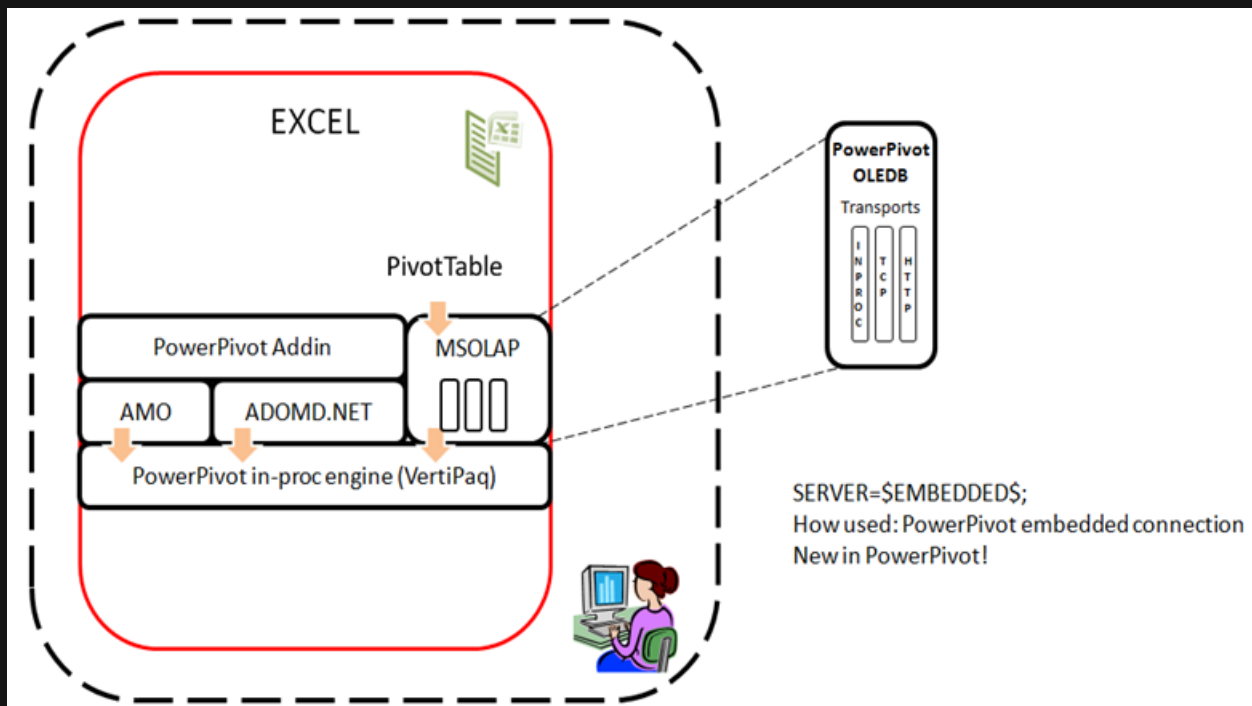
**This**



**That**



# How Does it Work?



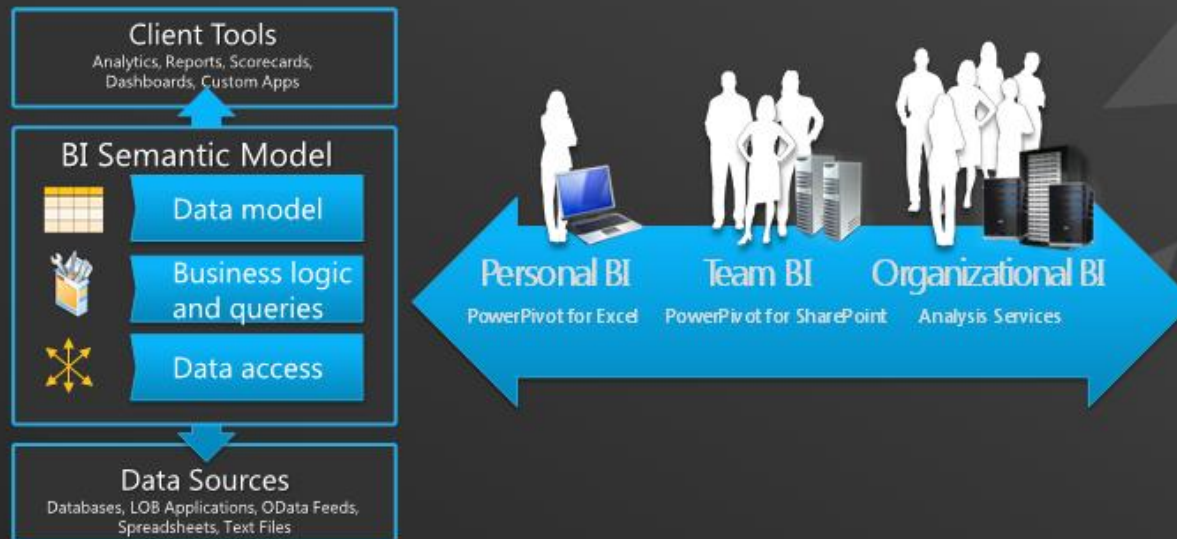
It builds off of SSAS technologies and utilizes xVelocity (formerly VertiPaaS) engine to create an In-Memory BI (IMBI) database. Database actually stored in Excel file with intense compression and column store



# What the heck is a BISM?

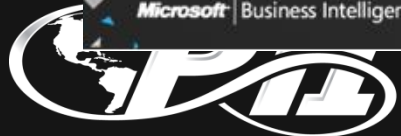
## BI Semantic Model

*One Model for all End User Experiences*



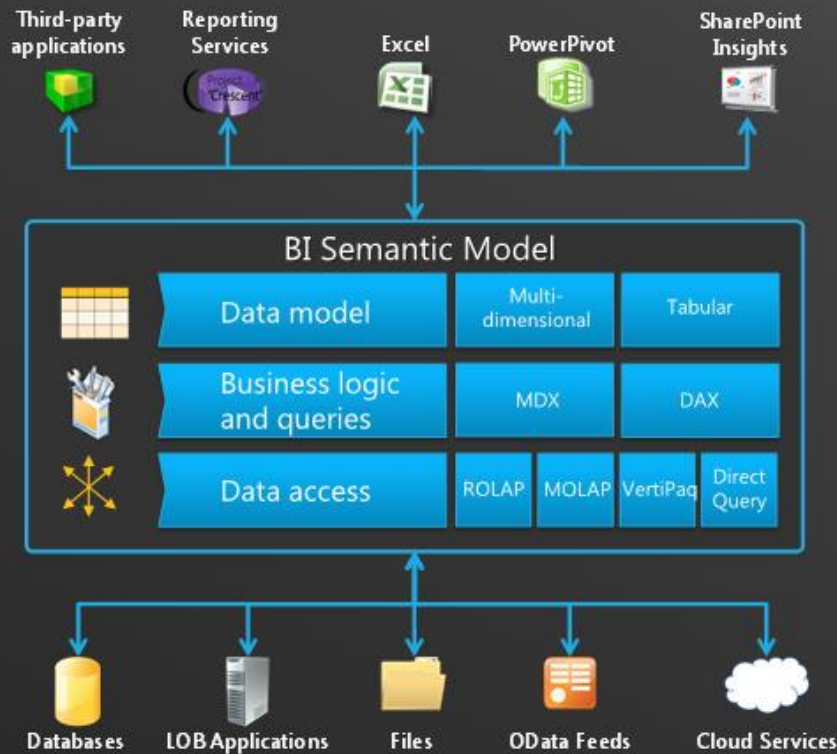
Microsoft | Business Intelligence

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# No really...what is a BISM?

## BI Semantic Model: Architecture



Microsoft Business Intelligence

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# What's it gonna take to get going?

PowerPivot for Excel – addin for Excel (client side only)

- ❑ Requires Excel 2010 (Office 2010)
- ❑ Must install addin from Microsoft (free)

For PowerPivot for SharePoint additional pieces required.

- ❑ SharePoint 2010 SP1 (requires Excel Services = Enterprise edition)
- ❑ SQL Server 2012 (you guessed it...Enterprise or Business Intelligence editions). Will need to install as PowerPivot for SharePoint option.



# Limitations

- ❑ Is a read only copy – cannot edit data (you can edit source and refresh – links maintained)
- ❑ Still at the mercy of the outside factors (network, bandwidth, servers). Just another client but once it's in there it will fly.
- ❑ Supports files up to 2GB in size and can only consume 4GB of memory. Will get an error if exceed those.
- ❑ Will create a named instance called PowerPivot. Cannot have one exist on same server already.
- ❑ Won't replace BI – still needed for analytics. This will just help the data users get what they need without waiting on IT



## Additional Gotchas

- SharePoint 2010 is 64 bit only
- SharePoint install must be server farm option even if setting up on one server. Required to support administrative and data access
- 64 bit on client not required but will help with performance overall especially for sorting



# Zip it lady and get on with demos

- Hooray...it's demo time!



# New Features

- Diagram View
- Hierarchies
- Calculation Area
- Advanced Tab
- Date Table
- Perspectives
- KPIs



# Resources

TechNet What's New

<http://technet.microsoft.com/en-us/library/hh272053%28v=sql.110%29.aspx>

Kasper De Jonge

<http://www.powerpivotblog.nl/>  
<http://www.powerpivotpro.com>

PowerPivot FAQ

<http://powerpivotfaq.com/Lists/TGPPF/AllItems.aspx>

PowerPivot

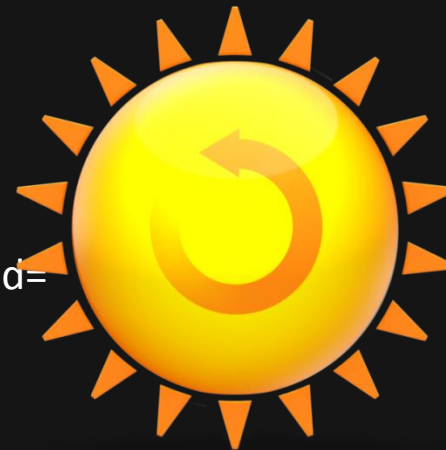
<http://www.microsoft.com/en-us/bi/powerpivot.aspx>

Download

<http://www.microsoft.com/download/en/details.aspx?id=29074>



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# Questions? Need More Information?



Thank you so much! Would love feedback on presentation

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