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Power BI Dashboarding

Alberto Ferrari
SQLBI

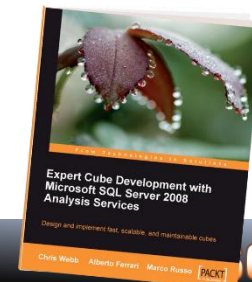
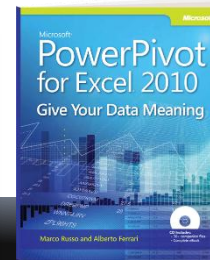
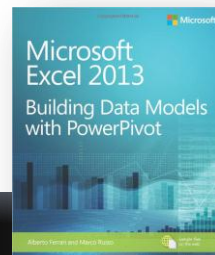
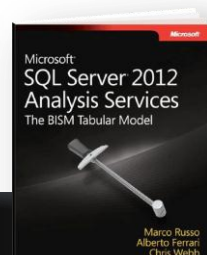
www.sqlbi.com



Alberto Ferrari



- BI Expert and Consultant
- Founder of www.sqlbi.com
 - Problem Solving
 - Complex Project Assistance
 - Data Warehouse Assessments and Development
 - Courses, Trainings and Workshops
- Book Writer
- Microsoft Gold Business Intelligence Partner
- SSAS Maestro – MVP – MCP



What is Power BI

- Unified experience for accessing:
 - any data
 - any device
 - anytime
 - anywhere
- Login within 5 seconds
- See your data within 5 minutes



Let's start with a Demo

- Import some data
- Create a report
- Pin elements to a dashboard



Features of Power BI

- Simple model enhancements
- Quick reporting
- Q&A enabled on the dashboard
- Different features for different users
 - Business User
 - BI Analyst
 - BI & IT Professional
 - ISV & SI Developer

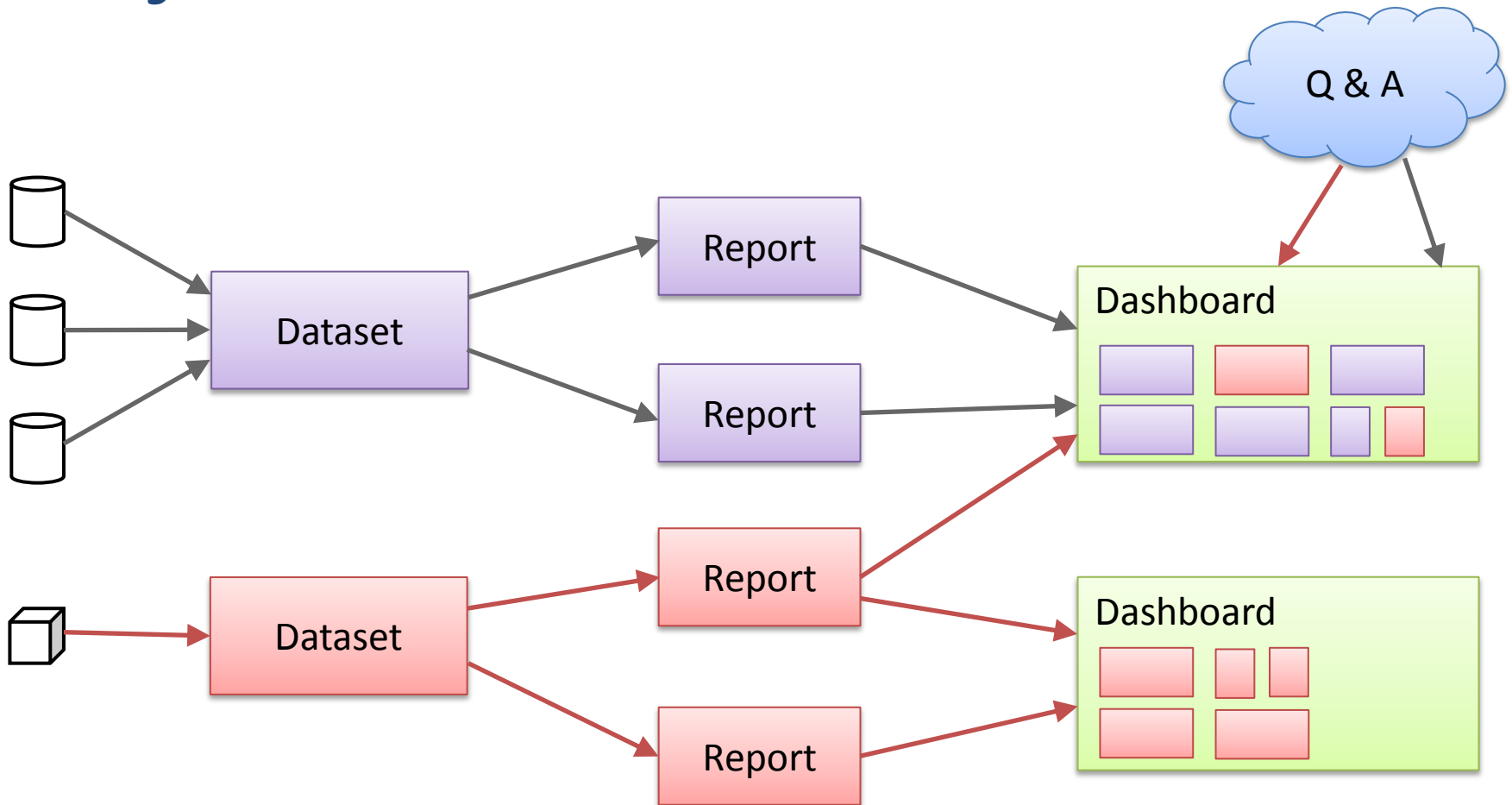


Power BI Lifecycle

- Import data and create a model
 - Online, Power Pivot, or Power BI Designer
- Create one or more reports
 - Interactive visualization
 - New visualizations available – growing quickly
- Create a dashboard
 - Pin reports' objects to a dashboard
 - No interaction, only display



Objects in Power BI



Datasets

- Connection to one or more Data Sources
 - External designer for more than one data source
- Include Data Model
 - Imported (Power BI Designer, Power Pivot)
 - Created automatically (connecting to services and other sources)



Reports

- Connects to one Data Source / Model
 - A data source can have multiple connections to import data
- Design inherited by Power View
 - Canvas, Filter, Fields
 - One or more pages
 - Interactive (slicers, filters)
- Graphical visualization
 - Future extensibility
 - Pin to dashboard of single elements
 - Pin to the last Dashboard open



Dashboards

- Connection to one or more Reports / Datasets
- Q&A interface
 - An answer is a report with one element
 - Access to datasets related tiles included in the dashboard
- Each tile comes from:
 - Q&A result
 - One element of a report
- No interactions
 - Only drill-down to report for a tile
 - Resize of tiles and edit of layout is possible



Goal: End Users First

- Get data from:
 - Corporate BI
 - Data Warehouse, Data Mart
 - BISM (Tabular now, Multidimensional soon)
 - Self-Service BI
 - Power Query, Power Pivot, Power View
 - Excel (plain and simple)
 - Cloud Services
 - Salesforce, Dynamics CRM Online, GitHub, SendGrid, Marketo, ...



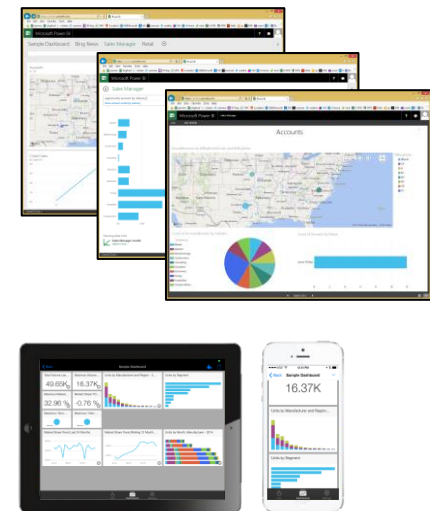
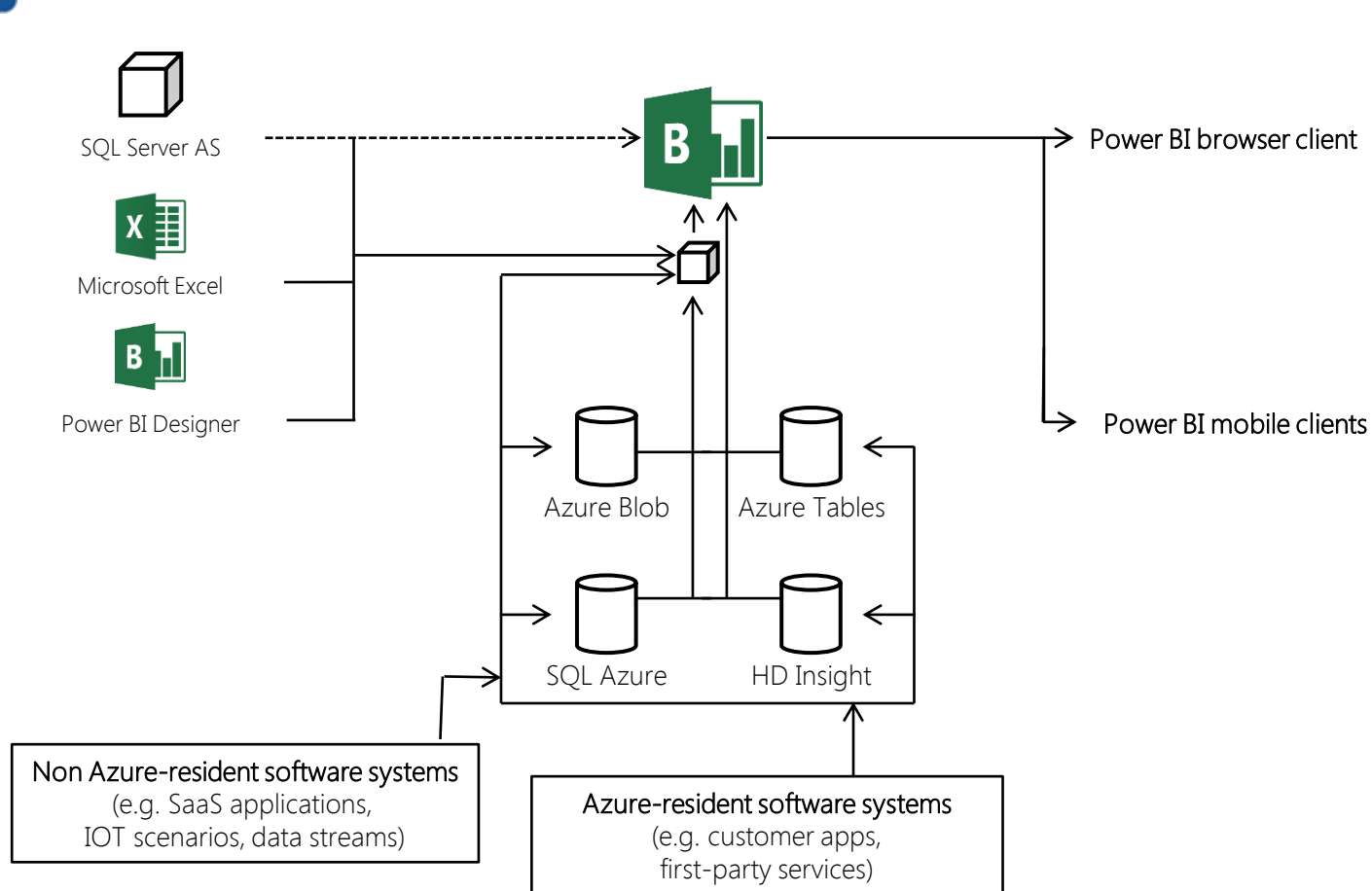
Data Refresh

- Direct Connections
 - SSAS Tabular, SSAS Multidimensional later
- Scheduled Refresh
 - Power Query connections required
 - SQL Azure, Salesforce, Azure services
 - Other Power Query data sources coming soon
 - Power Pivot native connections not supported yet
- SaaS Services
 - Salesforce, SendGrid, GitHub, Marketo, ...
- Excel in Cloud Storage
 - If data in Excel stored on cloud changes, Power BI refresh will start automatically
 - Support for OneDrive and DropBox coming soon



Customer premises

Power BI (Microsoft Azure)



Sharing

- Dashboard can be shared to other user in the same tenant
- Sharing permission delegation can be disabled
- No sharing at Report level
 - Dashboard does not have interaction
 - Security defined by tiles visible in the dashboard



Real time dashboards

- Push new data to Power BI to enable real-time dashboarding
- Simpler data model
- REST API
 - Enumerate Databases
 - Get Metadata
 - Push Data
 - Delete Data



Power BI Applications

- Power BI site
- Power BI Designer
- Windows Modern Application
- Mobile app (windows Phone, Apple iPhone etc)
- Data Management Gateway
- Analysis Services Connector
 - Tabular already there
 - Multidimensional yet to come



Conclusions

- Cloud based visualization
- Enabled to display on-prem data
- Self-Service and «Hybrid» BI solutions
- Open to extensibility
 - See Power BI Developer API





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