



#### **EiB Financial Analytics and Power BI – Better Together**

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# Why Take Sage Data From EiB Finance Cube?

- Data
  - Actual, Budget from Sage
  - Forecast from EiB
  - Multi Company Consolidated
    - All Departments, Cost Centres, Account Levels
  - Memo Accounts
- Business Logic
  - Finance P&L Structures
    - Usually Different From Sage
  - Generated KPIs
    - Net Profit etc
- Matches Financial MI In Excel



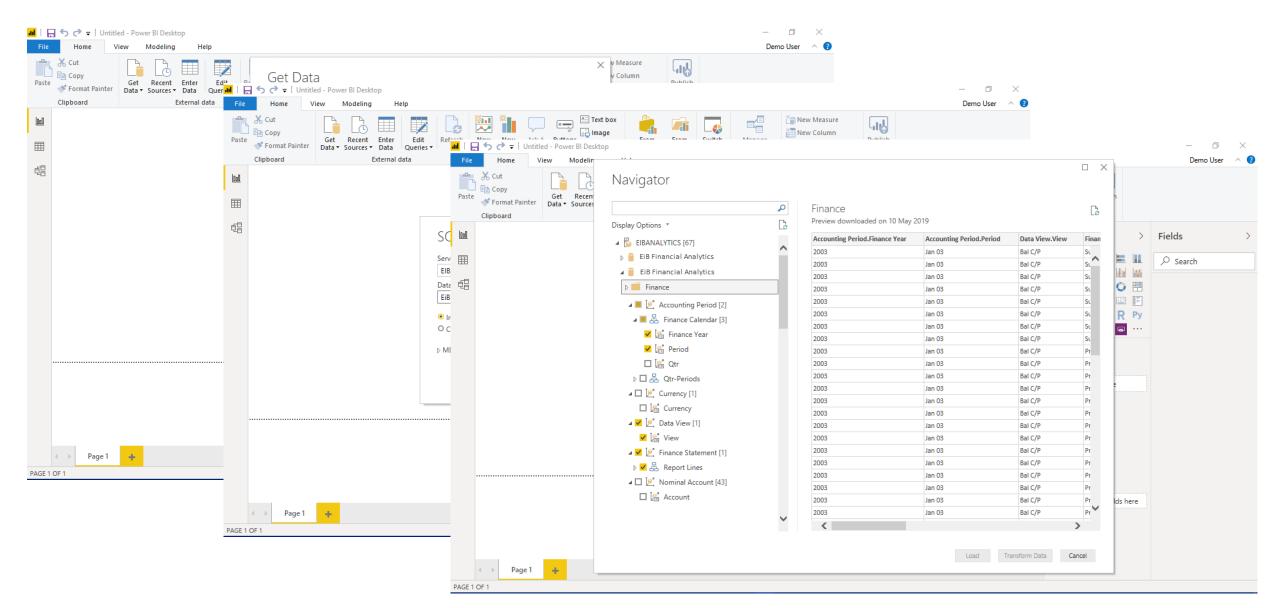








# Just Using Standard Power BI Import From Cube





# Standard Power BI Import - Challenges

- Data
  - Too Big Will Blow Import Limits
    - Single Company Level!



- Loading From SQL Server Analysis Services
  - Microsoft Power BI Load Not Optimised
  - Dimensions Are All Members Or Nothing
    - Restrictive, Inefficient & Bloats Power BI Model
  - Non Existent Error Trapping
    - It Works Or It Doesn't
  - Very Slow

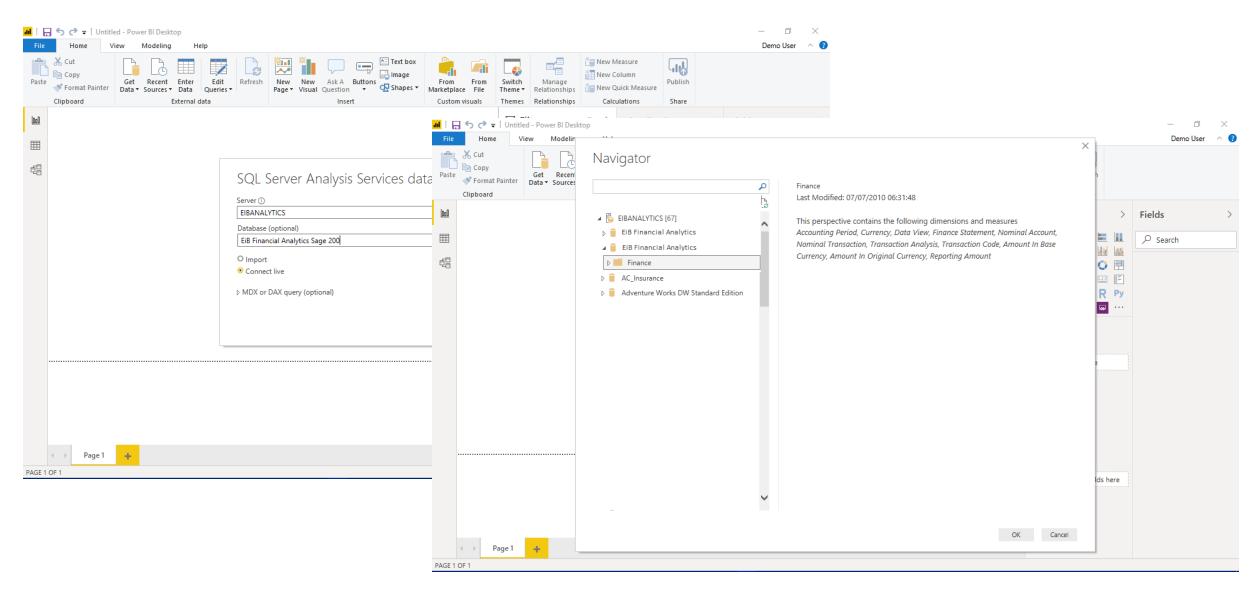


- Would Need To Understand Results
  - Build Power BI Reports From Scratch
- Not A Practical Solution



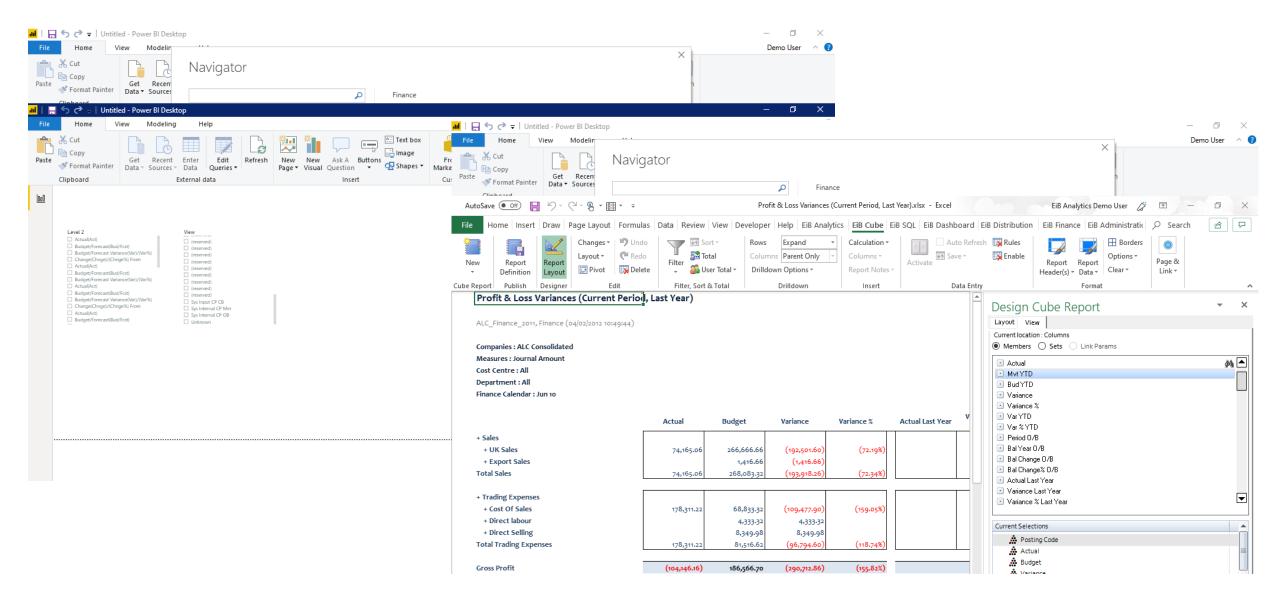


# Standard Power BI Live Query From Cube





### Standard Power BI Live Query From Cube





# Standard Power BI Live Cube Challenges

- SQL Server Analysis Services Support
  - Requires SQL Server 2017 Standard Upward or 2014 / 2016 Enterprise



- SQL Server Analysis Services Features
  - EiB Financial Analytics An Advanced Cube
  - For A La Carte and EiB Financial Analytics 2018
    - Power BI Does Not Support Ragged Hierarchies Or Certain Linear Hierarchies
    - Can't See YTD Results For Actuals Or Budgets
      - Cube enhanced for EiB Analytics to show these items



- Must Install Power BI Enterprise Gateway To Work With Power BI Service
- Would Need To Understand Results
  - Build Power BI Reports From Scratch
- Best Performance Option







### EiB Approach 1 : Import

#### Need EiB AppStudio Software & EiB Power BI Design

- Extracts Logic And Data From EiB Cube
- Generates SQL Database Optimised For Power BI Loading
- Loads Power BI Import Model (BUT NOT WITH SAME MS RESTRICTIONS OTHER THAN TOTAL MODEL SIZE OF 1M ROWS AND LOAD TIME ON LARGER MODELS) Could Always Use SQL Live Query For Massive Models





#### Services

- EiB Just Tweak The AppStudio Design After Checking With Finance
  - Model Then Just Builds

#### Power BI App & PBIX File Delivered To The Customer

- Powerful Functionality Out Of The Box
- No Need To Understand The Results From Day 1
- Can Be Customer Modified, Added To etc
- Can Be Integrated Into Existing Power BI Infrastructure





### EiB Approach 2 : Live Connection

- Need EiB Analytics (2020 Onwards) & Power BI Model
  - FINI Cube Automatically Generates Optimised Cube For Power BI
  - Connection Is Live, So No Refresh Needed
  - Requires Power BI Enterprise Gateway To Be Installed
    - This Requires SQL Server 2017+ Standard or SQL Server 2014+ Business Intelligence or Enterprise Editions





- EiB Just Tweak The Power Bl Model After Checking With Finance
  - Model Then Just Accesses The Cube



- Powerful Functionality Out Of The Box
- No Need To Understand The Results From Day 1
- Can Be Customer Modified, Added To etc
- Can Be Integrated Into Existing Power BI Infrastructure



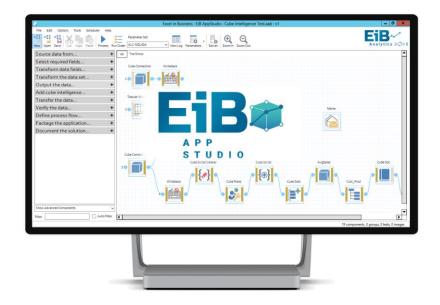




### EiB Analytics Software & Services

#### **EiB AppStudio**

- Visual MI Apps for MS BI
- Any source
- Any output
- Automation
- Documentation
- Grouping
- Cleansing





#### **EiB ReportStudio**

- Excel Reporting Add-in
- SQL / Cube / Tabular
- Formatted Reports
- Unstructured Reports
- Dashboards
- Distribution

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### EiB Analytics (2020 onwards) - Import



# EiB Financial Analytics Cube

- Sage 200
- Multi Dimensional



#### Any SQL Server Analysis Services Cube

- Multi Dimensional
- Tabular
- Azure Analysis Services















EiB Financial Analytics App



**EiB Analytics Template** 



### EiB Analytics (2020 onwards) – Live Connection



# EiB Financial Analytics Cube

- Sage 200
- Multi Dimensional



#### Any SQL Server Analysis Services Cube

- Multi Dimensional
- Tabular
- Azure Analysis Services





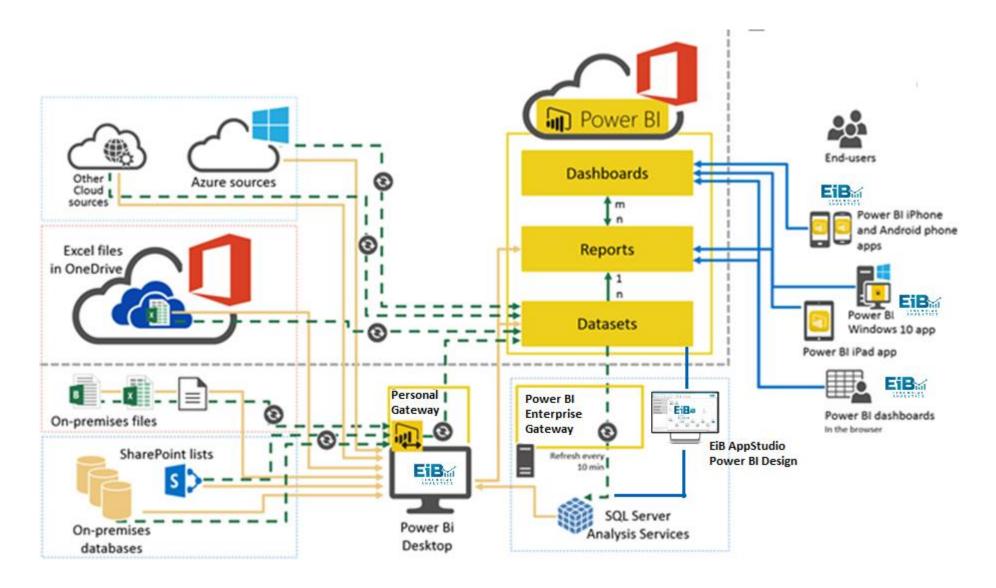
**EiB Financial Analytics App** 



**EiB Analytics Template** 



#### Power BI Architecture – EiB Analytics



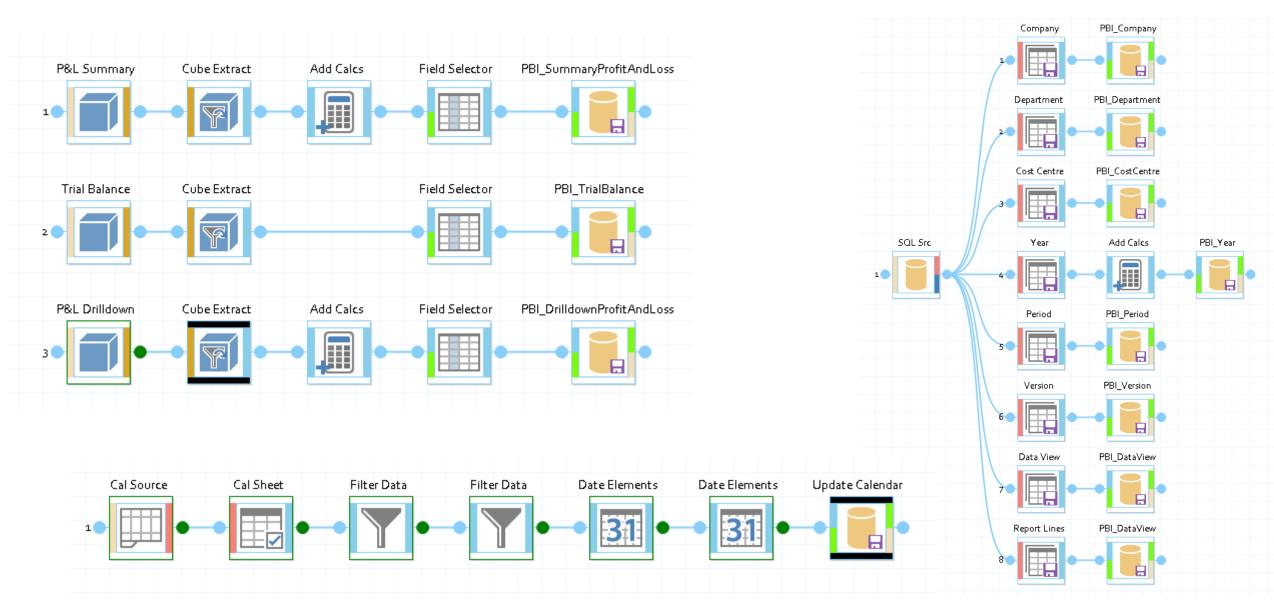


#### **EiB AppStudio**

- Design To Optimally Extract & Load Data
  From Finance Cube
- TB & P&L & BS
- Inherits Business Logic
- Multi Company
- Live or Import



### EiB AppStudio Design





#### Power BI App









#### EiB Financial Analytics Sage 200 Power BI App







Profit & Loss Summary Act v Bud



Profit & Loss Drill Down Act v Bud



Profit & Loss **Detailed Trend** By Period



High Income Accounts



Expenditure Accounts



Multi Year Trends



Monthly & YTD Trends By Account



Variance Trends Income & Expense



Decomposition AI Analyses



Analysis



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### Going The Extra Mile Design

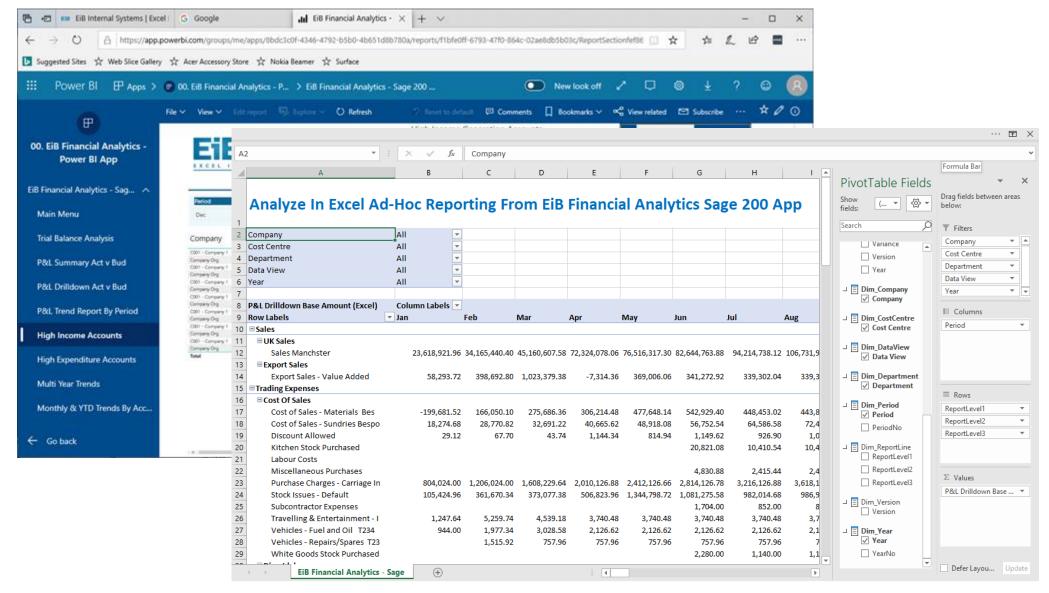


#### User Aids

- Confirm Button
- Reset Button
- Menu Button



### Going The Extra Mile – Ad Hoc Potential

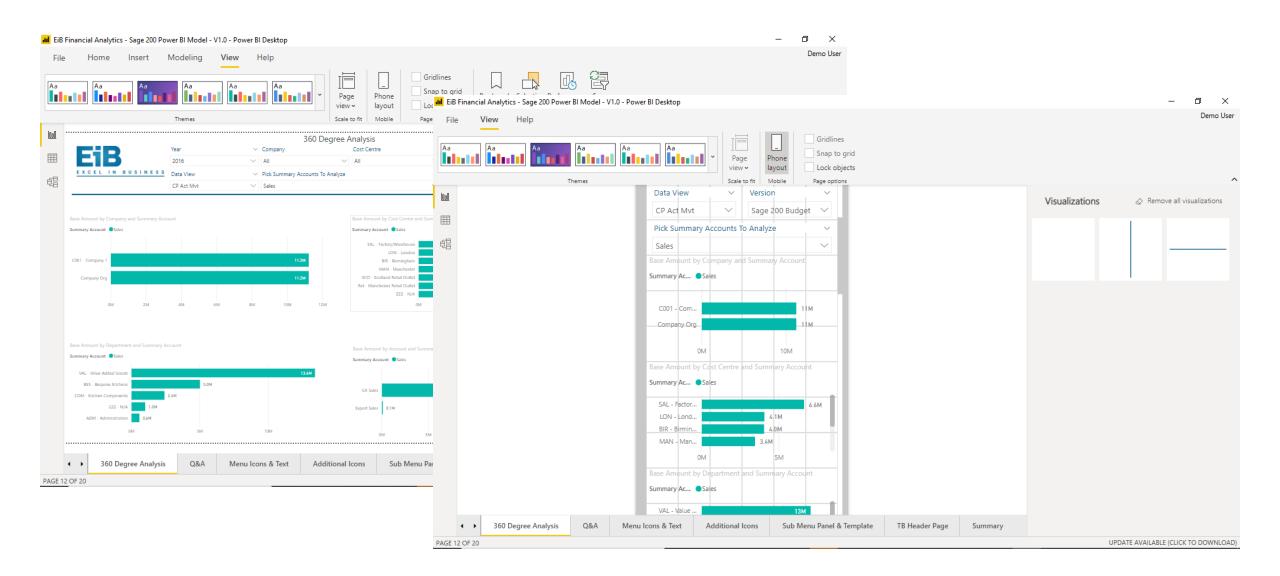


#### Analyze In Excel

- Made Possible
- Enhanced Model Design



### Going The Extra Mile – Phone?





## EiB Power BI Analytics – Sage 200

- Complete Financial Reporting Solution
  - EiB ReportStudio Excel Reports
  - Power BI Dashboards
    - Web, Mobile
    - Live or Import Modes



- MS Power BI Import Not Scalable Or Practical, EiB Import More Scalable
- MS Power BI Direct Connection
  - Performant, But Needs IT Involvement Enterprise Gateway, SQL 2017+



- Cost More To Do Internally
- Dovetails Into Any Existing Power BI Deployment
- Can Be Extended To Other SQL Cubes











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