Introducing Microsoft® Office PerformancePoint™ Server 2007

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Agenda

- Overview of PPS
- Dimensions & Multi-dimensionality
- The PPS Life Cycle, and Introduction to PPS Applications
- Model Sites, Models, Model Types, and Model Properties
- Dimensions, Members, Member Sets, Member Views, and Member Properties
- Data Integration
- Users, Roles, and Security
- Forms and Reports in PPS Excel Add-In
- Financial Intelligence
- Calculations: Business Rules, and Jobs
- Process Management: Cycles and Assignments

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What is PerformancePoint Planning

- Planning, Budgeting & Forecasting
- Reporting (Management and External)
- Modeling (Visualizing your data)

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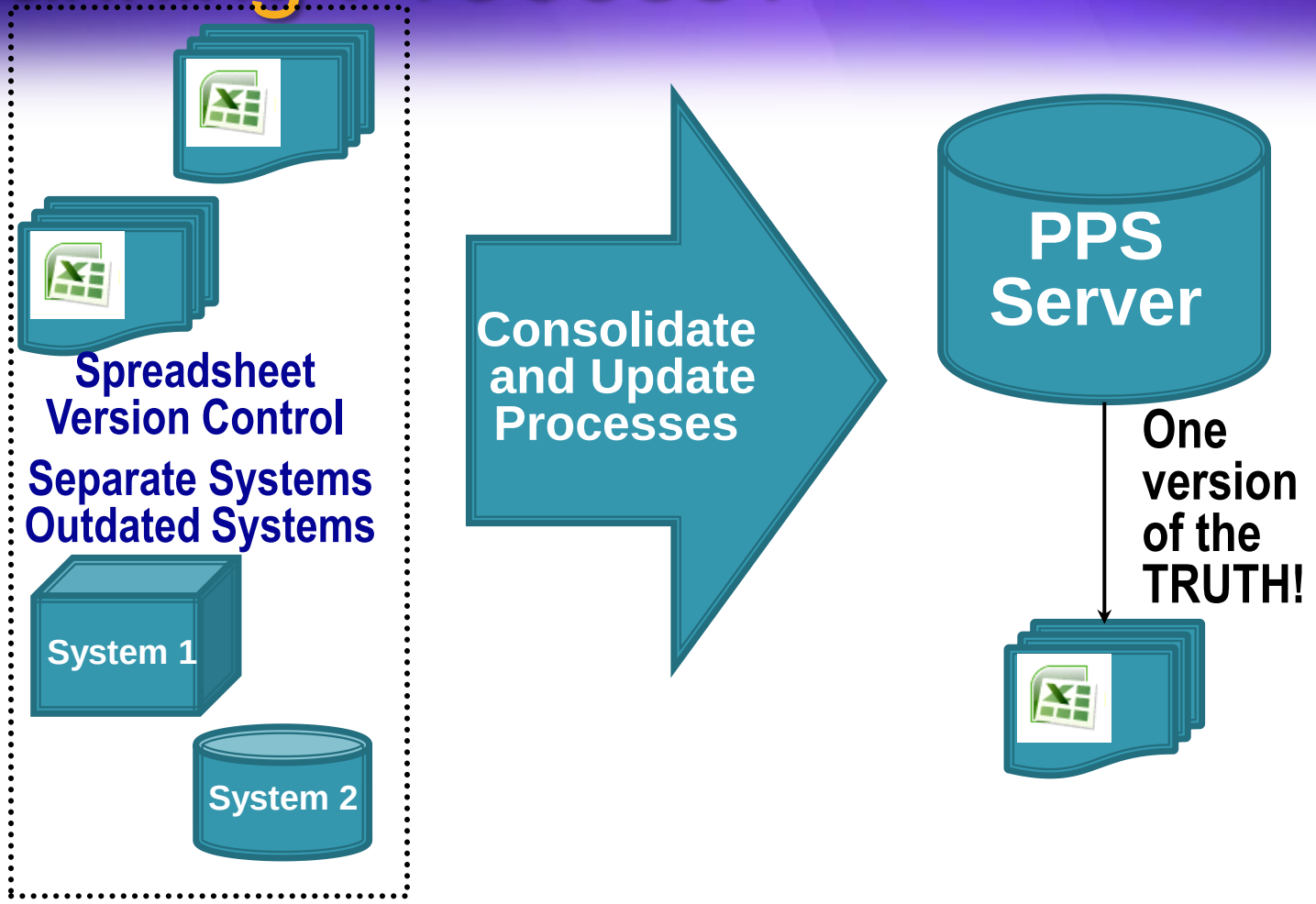
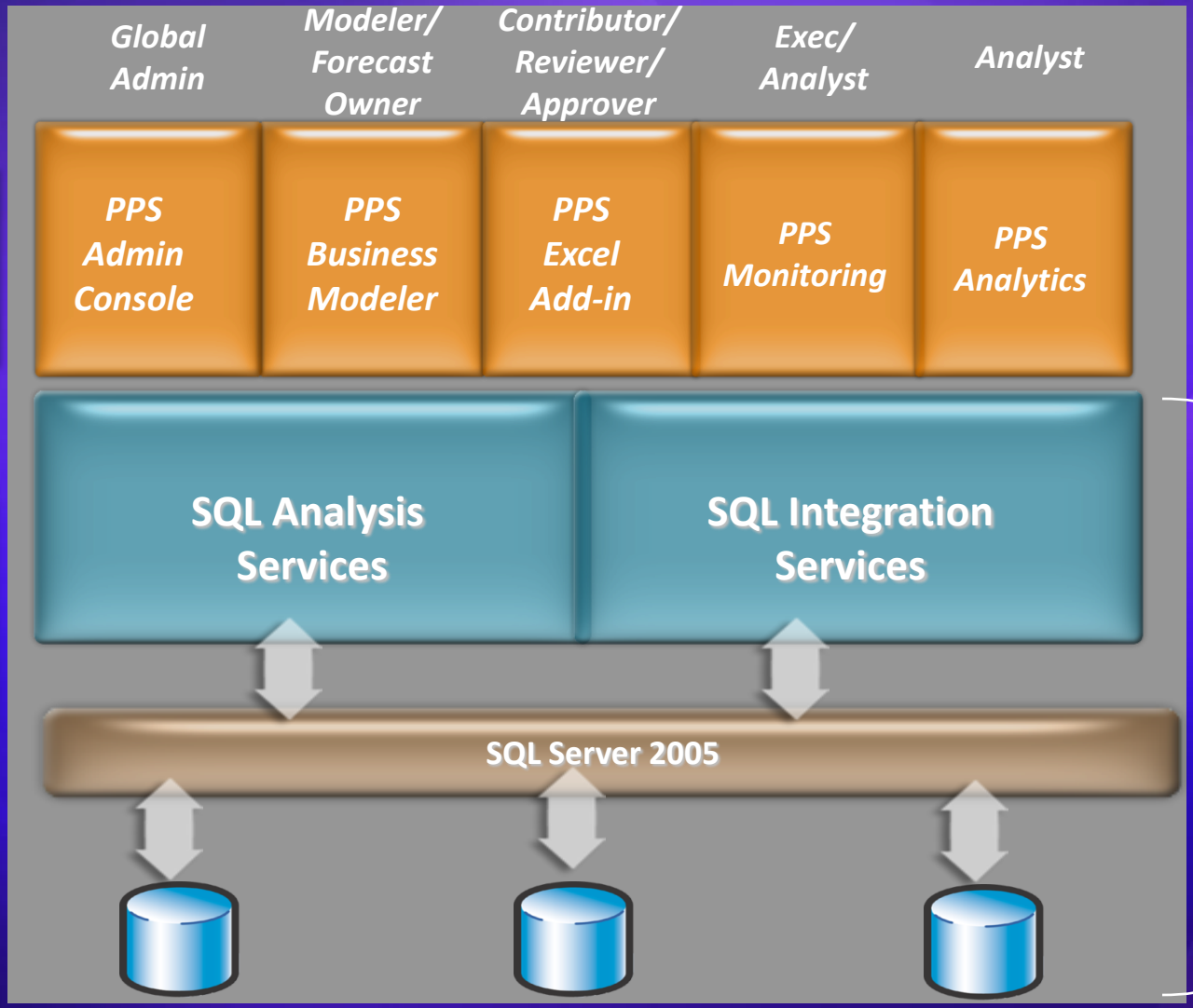
Why Change from the current Planning Process?



PPS: What Is It?

End-User Tools & Corporate Performance Management Applications

Business Intelligence Platform Based on SQL Server



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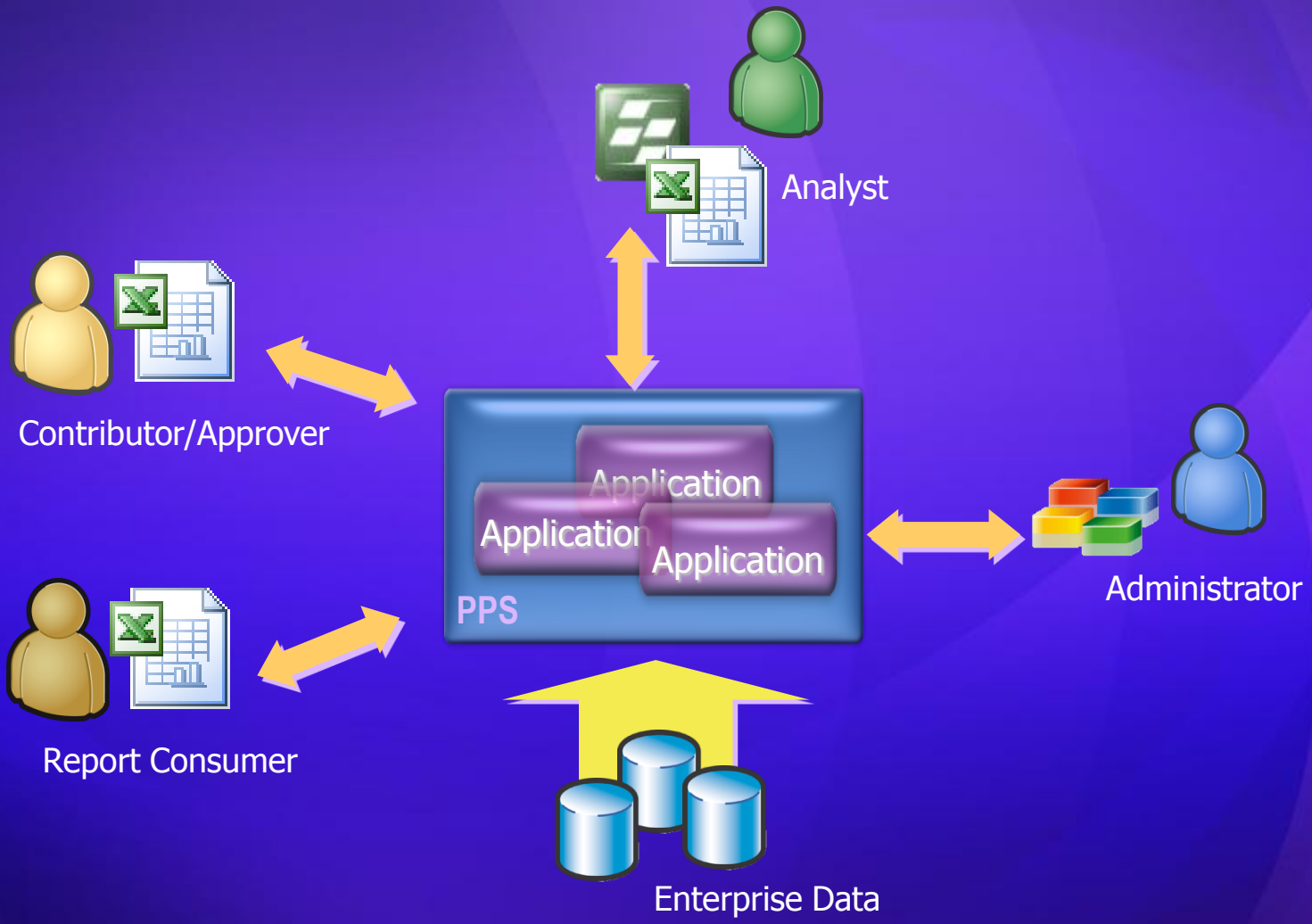
PPS: What Does It Do?



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Dimensions & Multi-Dimensionality

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Dimensions & Multi-Dimensionality

- Dimensions
  - Dimensions represent how data is accessed.
  - Usually represent a person, place, thing, or concept.
  - Answers the who, what, when, or where part of a question.
  - Presents the “how” or “by” part of a question.
- Multi-Dimensionality (Models)
  - Combination of dimensions to store and communicate data

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Dimensional Attributes

- Hierarchy – A structure within a dimension that represents the organization of data grouped in levels of most general to most specific.
- Member - Represents a specific value contained within a Dimension or Hierarchy.
- Level – Denotes “how far down” a level is in the hierarchy
- Leaf – Denotes lowest level member in a hierarchy
- Non-Leaf – A member of the hierarchy which has one or more children

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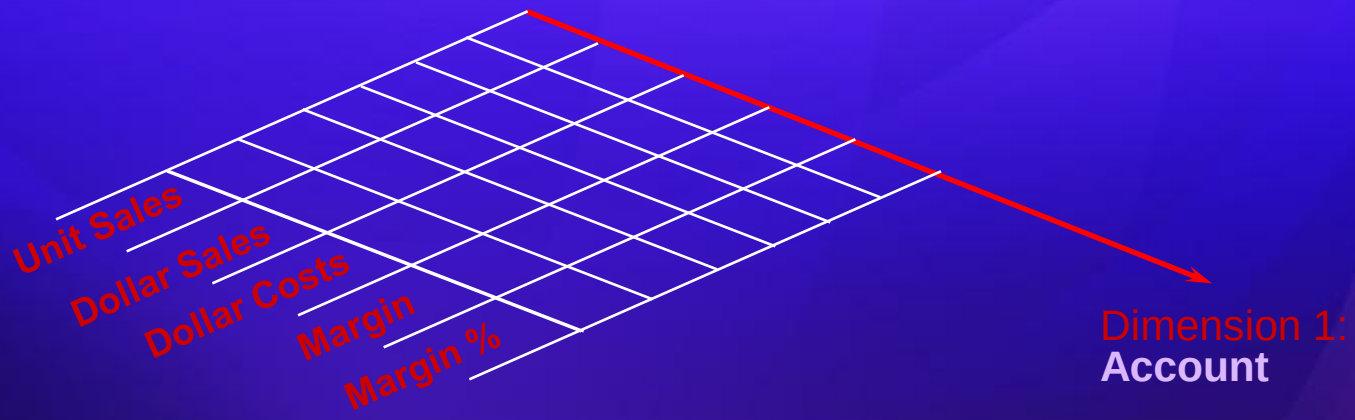
1 Dimension



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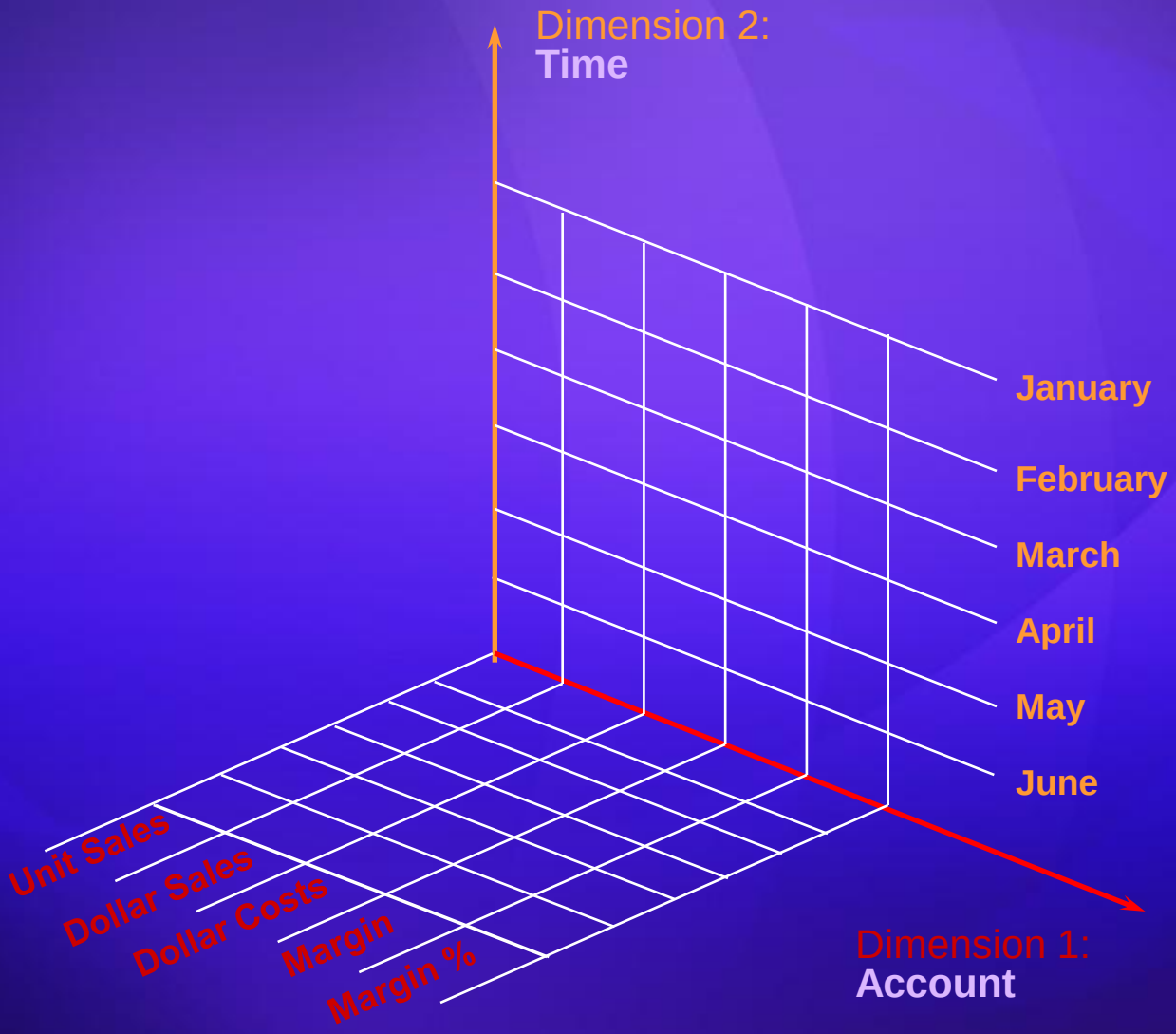
2 Dimensions



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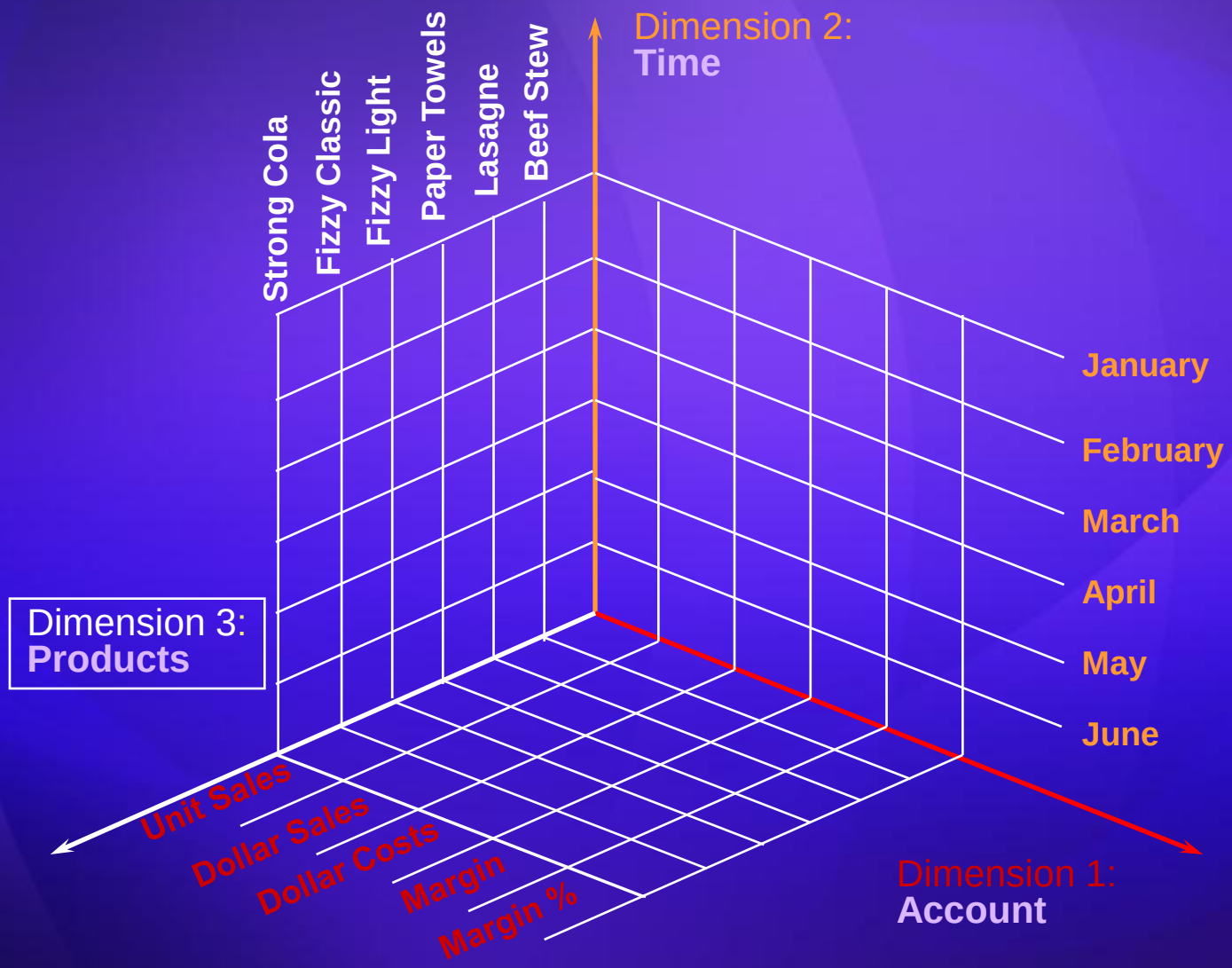
3 Dimensions



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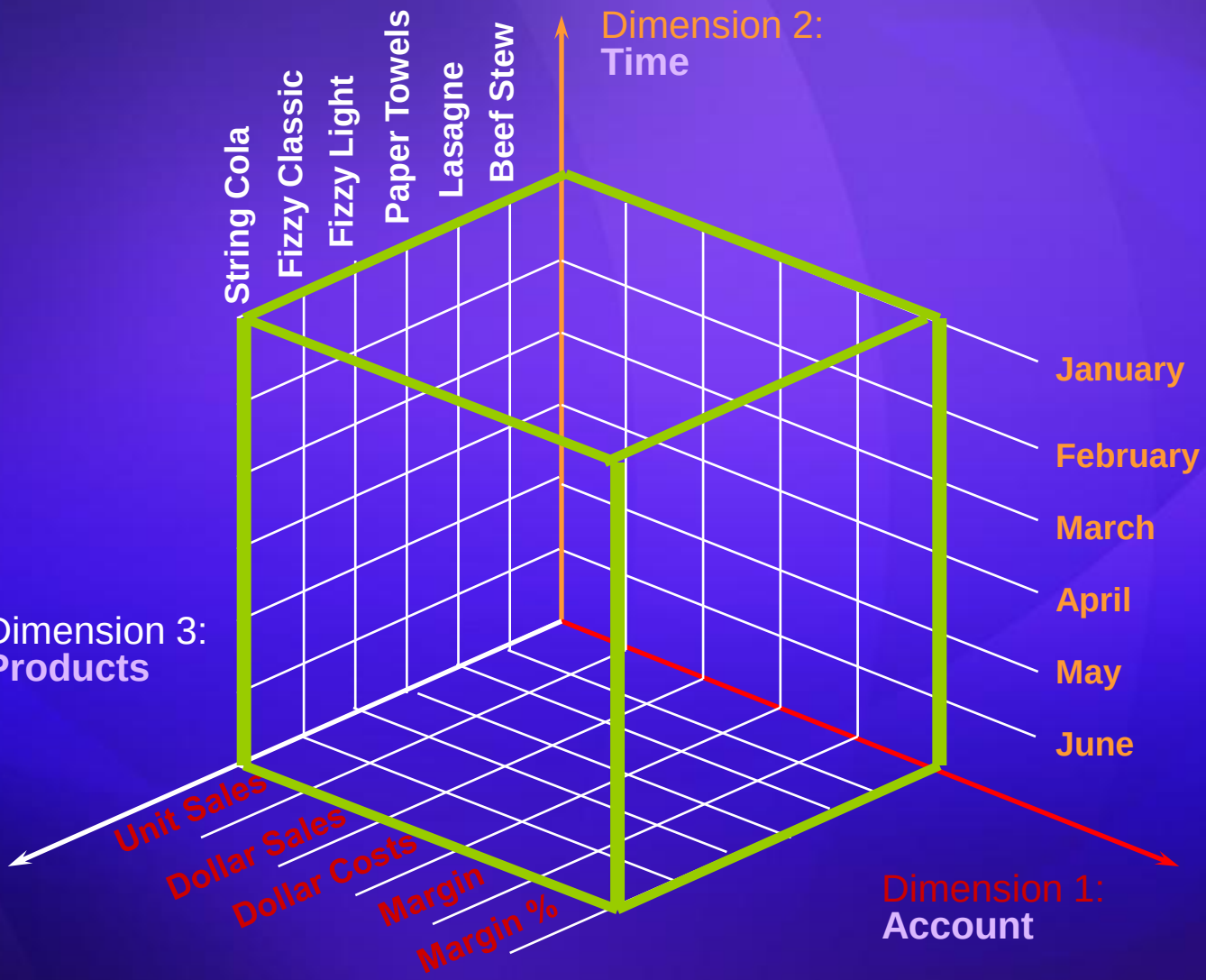
Model



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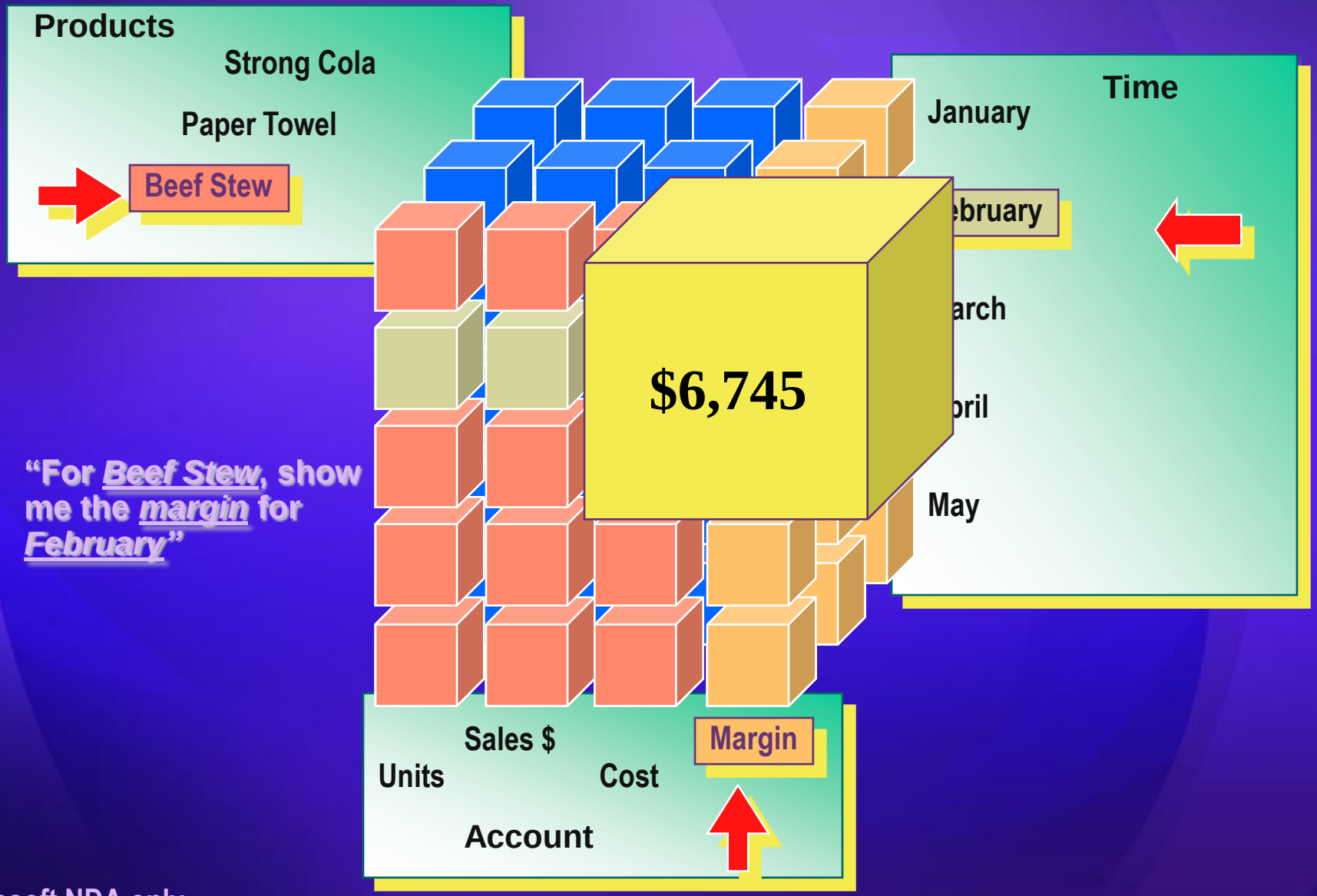
OLAP - An Example



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The PPS Life Cycle, and Introduction to PPS Applications

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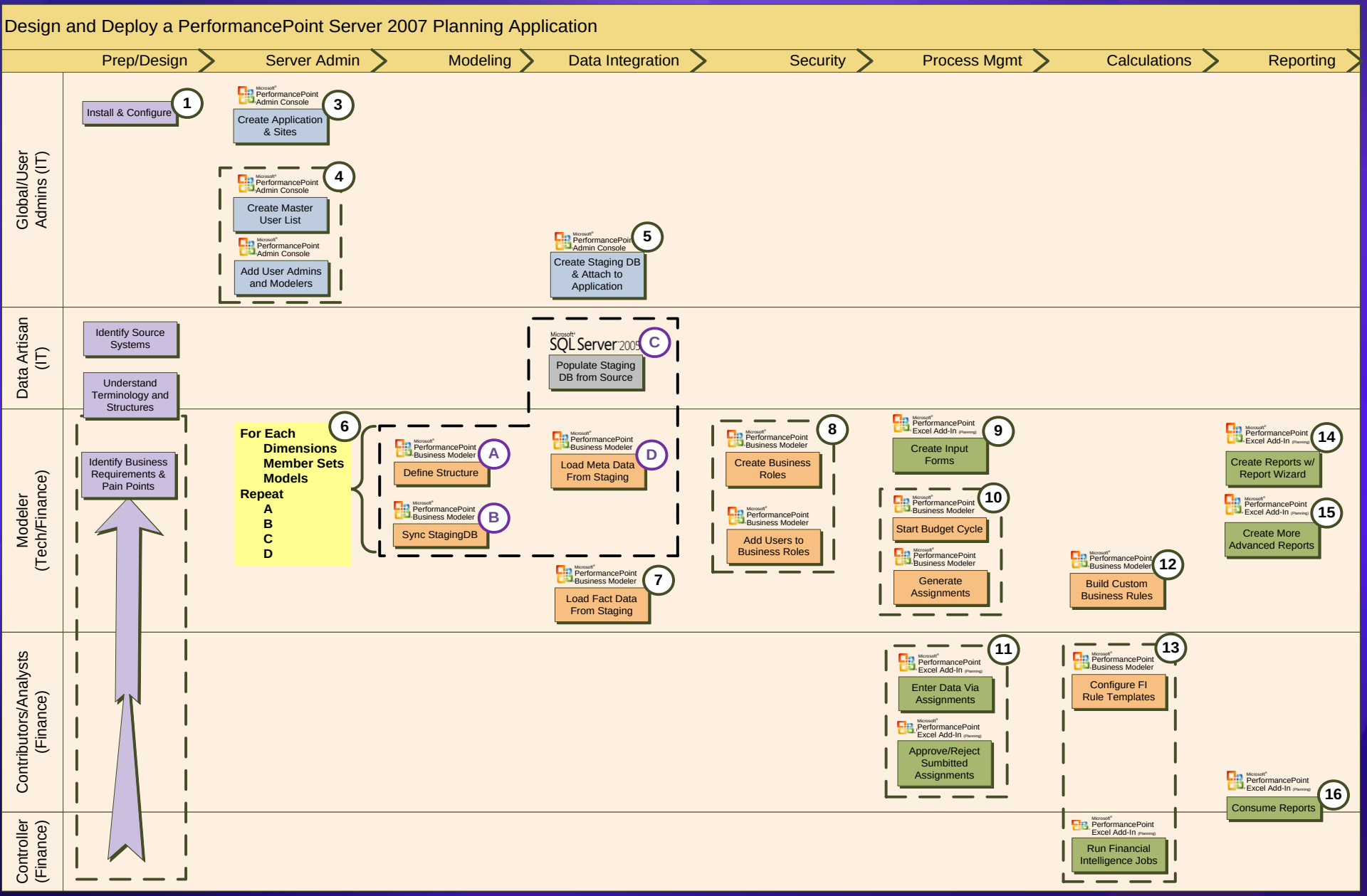
PPS Design/Deploy Life Cycle



PPS Design/Deploy Life Cycle

- Install PPS Software
- Create Application (AppDB & StagingDB) in Admin Console
- Create Admin Users in Admin Console
- Setup Initial Model structure in Modeler
  - Creation of Dimensions, Hierarchies and Model structures
- Sync to StagingDB to mirror table structure of AppDB
- Load Dimensions, Hierarchies & Model facts to StagingDB using SSIS
- Run Validations to ensure data in StagingDB is valid
- Load Dimensions, Hierarchies & Model facts from StagingDB to App DB
- Create & Deploy Model Site to Create AS cubes for all Models
- Create Rules to perform calculations
- Create Excel Input Templates and Reports
- Define Security for Roles and Business Users
- Define Workflow (Cycles and Assignments)
- Users Input Data and Review output

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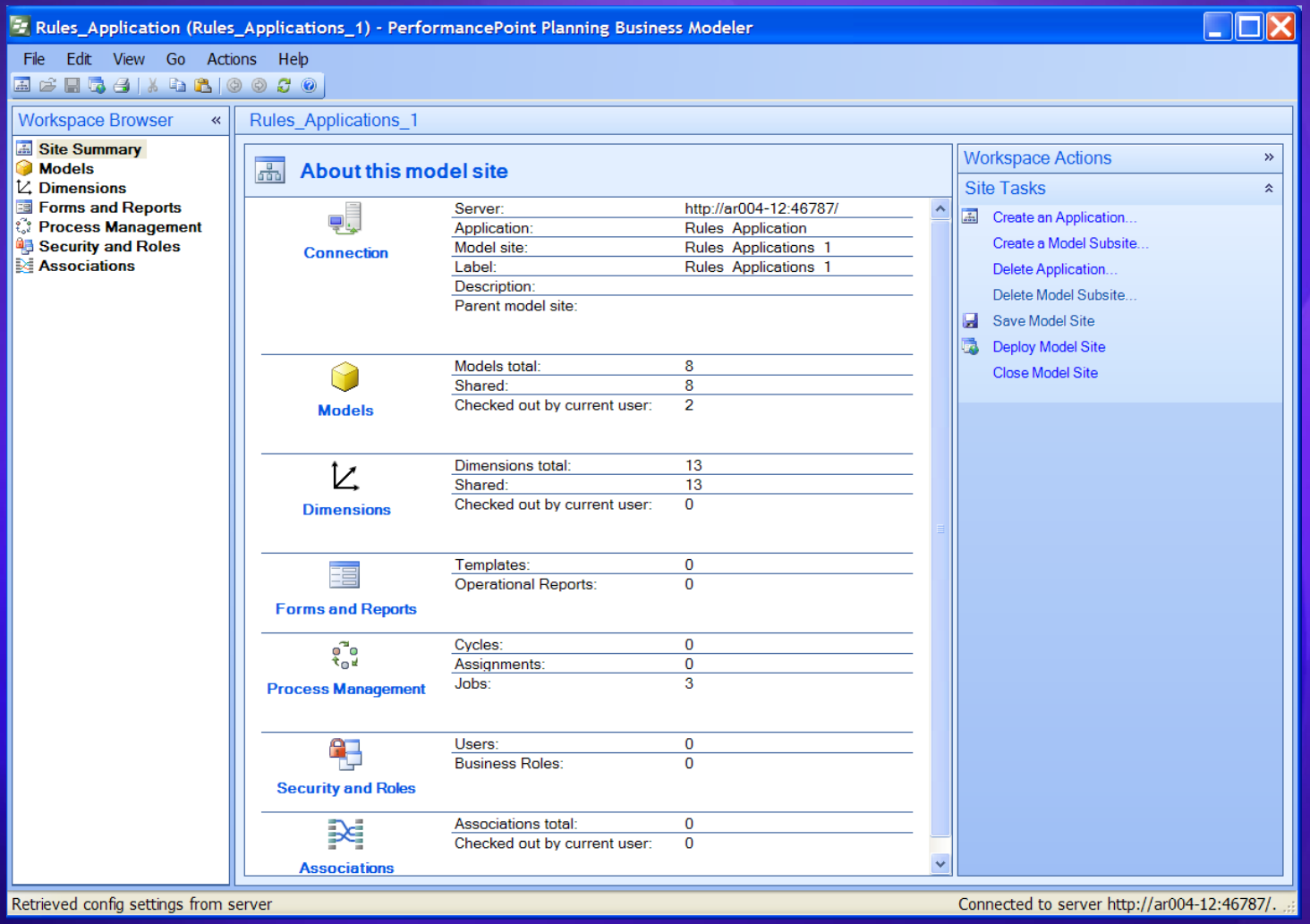
PPS Business Modeler



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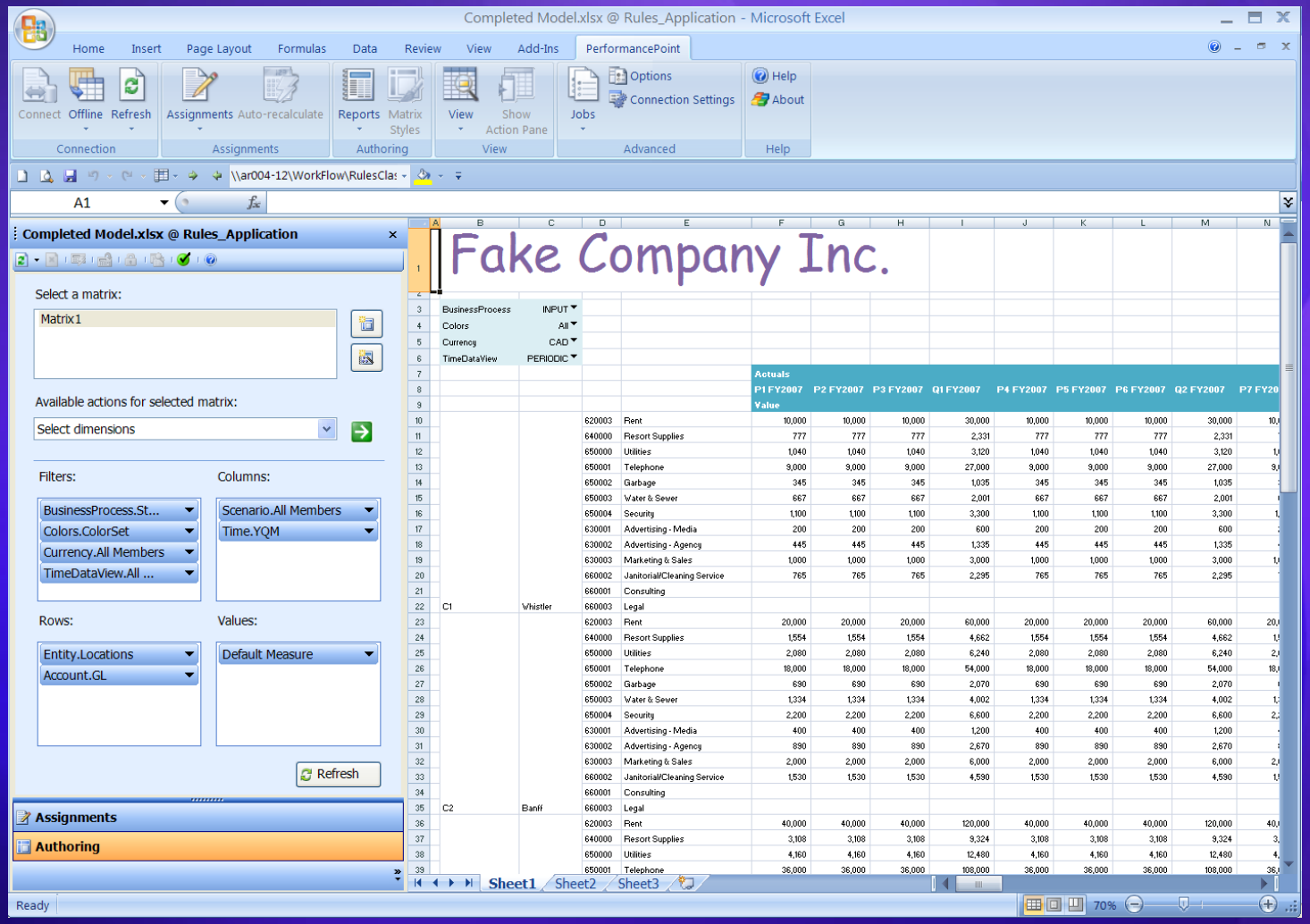
PPS Excel Addin



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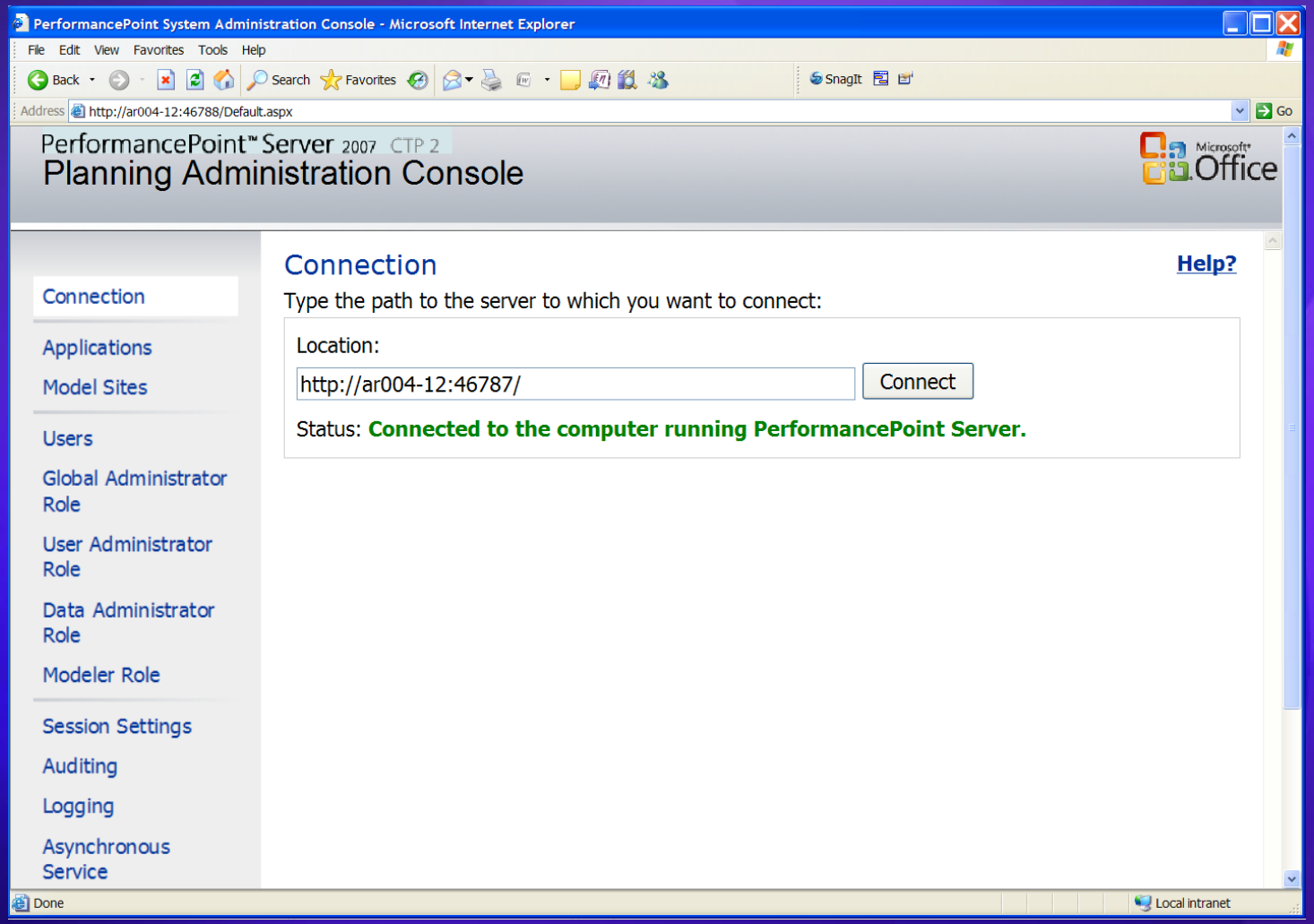
Planning Administration Console



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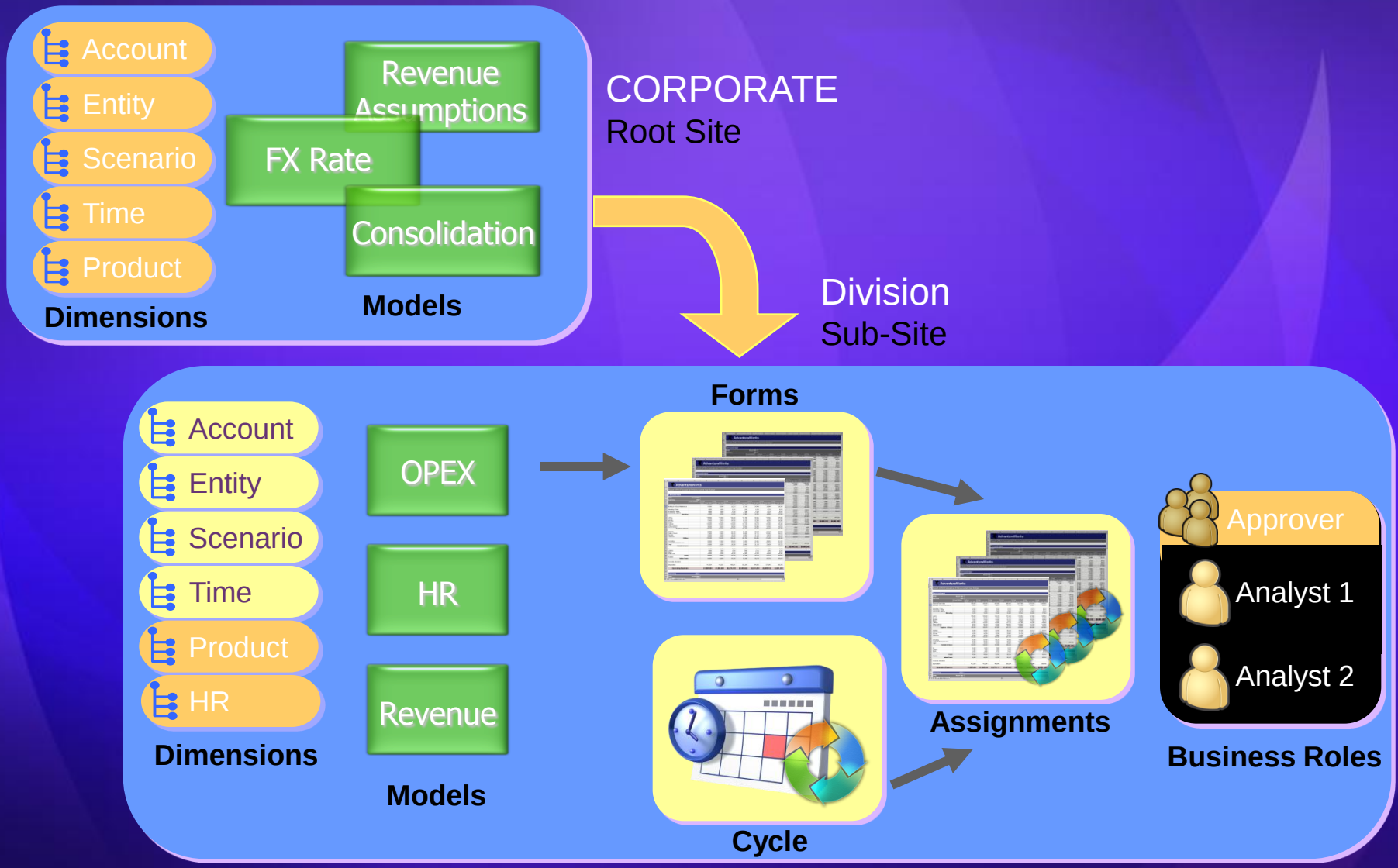
PPS Applications



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Model Sites, Models, Model Types, and Model Properties

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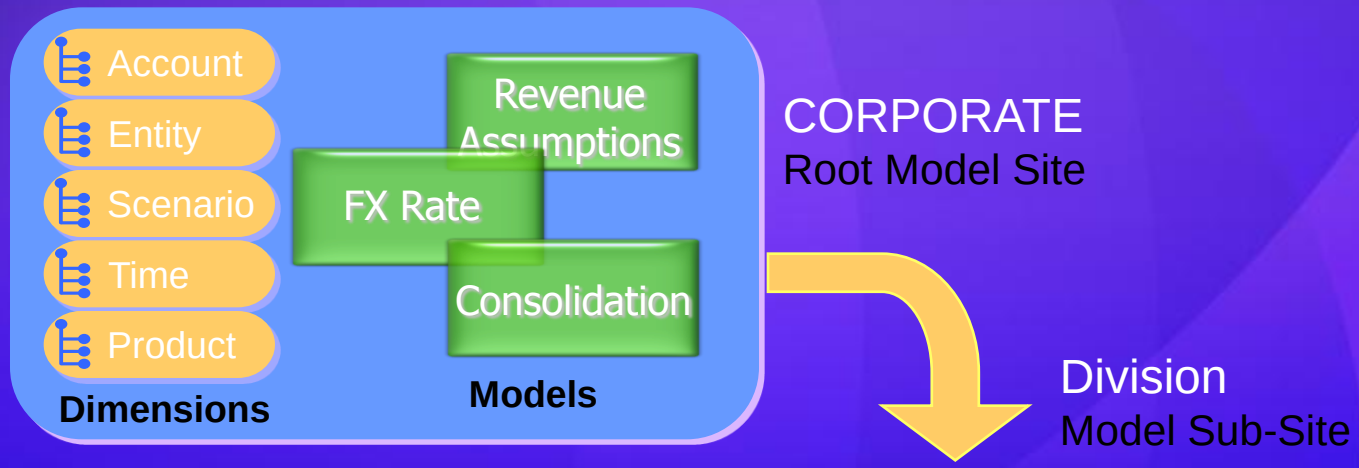
Model Sites and Sub-Sites



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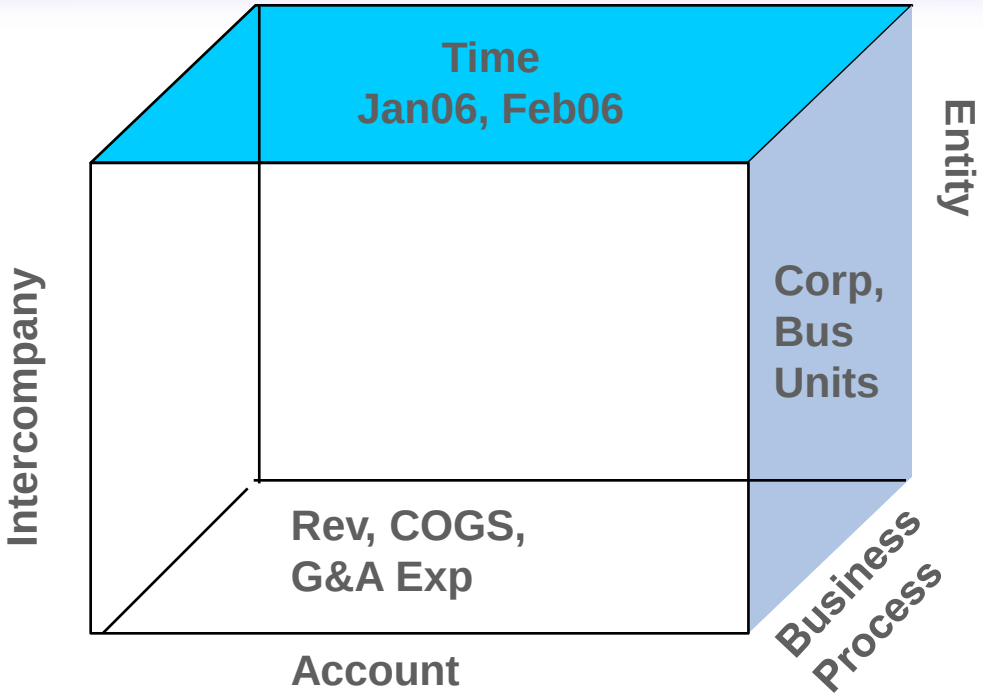
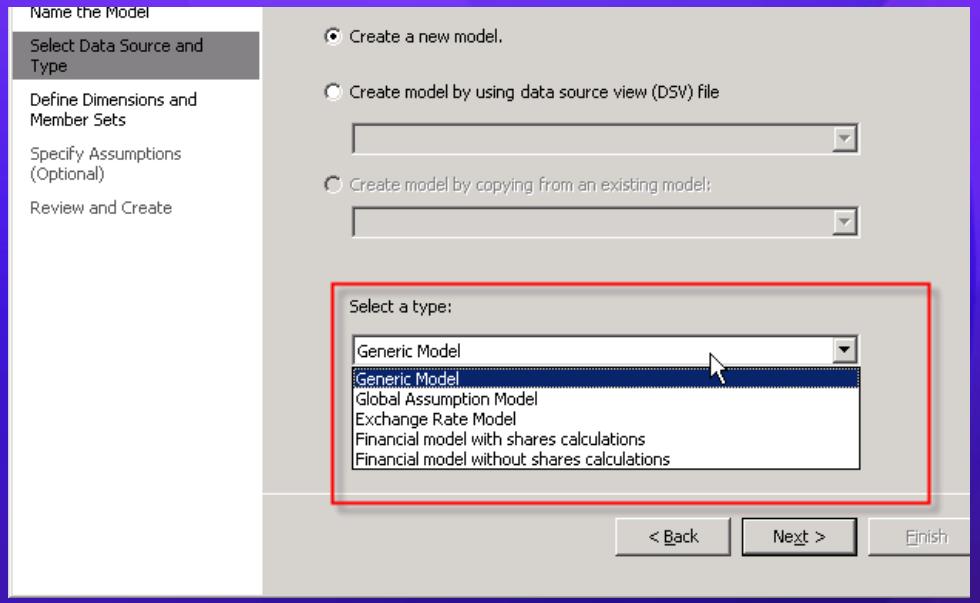
Models


Time
Jan06, Feb06
Entity
Corp,
Bus
Units
Intercompany
Rev, COGS,
G&A Exp
Business
Process
Account

Model Types

- Global Assumption Model
- Exchange Rate Model
- Financial Models
  - With Shares
  - Without Shares
- **Generic Models**



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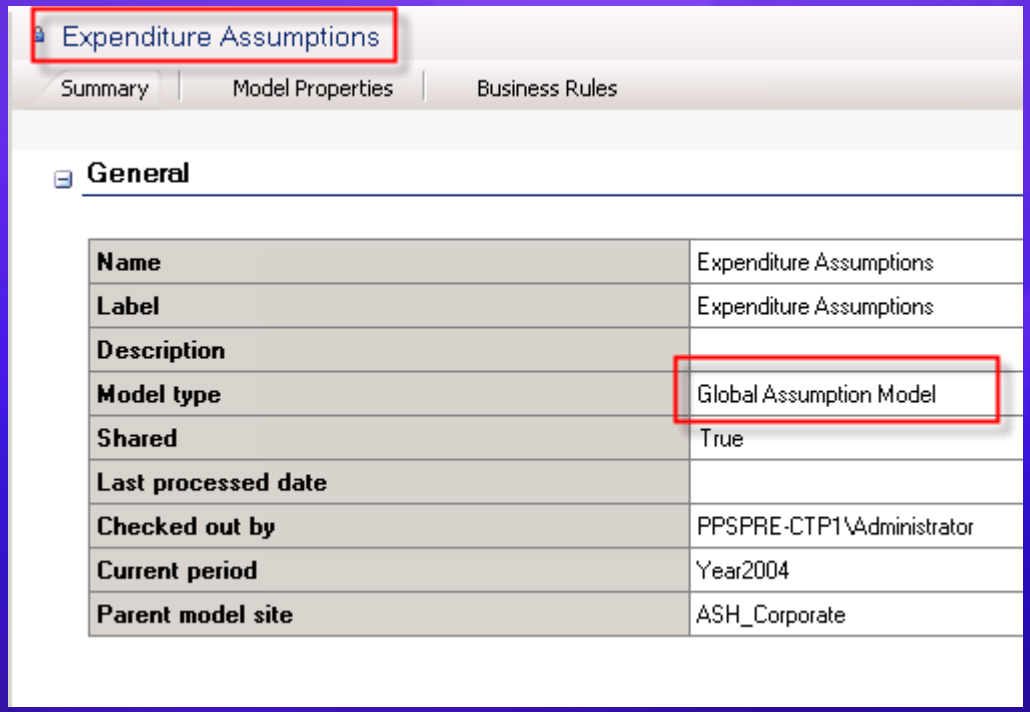
Assumptions – Store in Assumptions Models

- Baseline Data Implemented through Models



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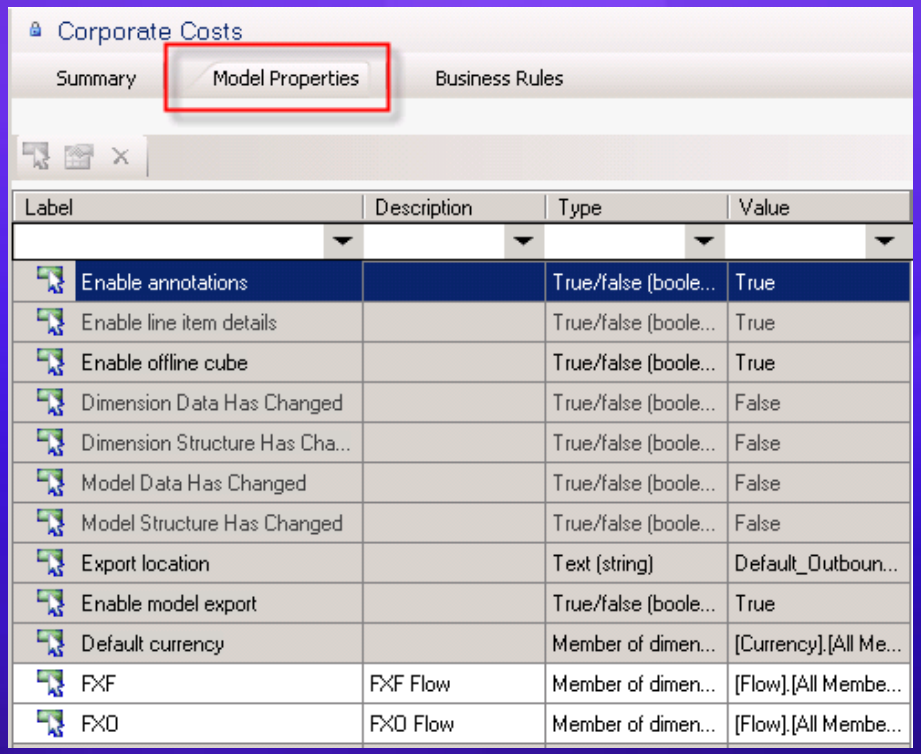
Model Properties

- Model Properties (Variables) linked to the Model
- Can be accessed during calculations (Business Rules)
- Dynamically Updated



Label	Description	Type	Value
Enable annotations		True/false (boole...	True
Enable line item details		True/false (boole...	True
Enable offline cube		True/false (boole...	True
Dimension Data Has Changed		True/false (boole...	False
Dimension Structure Has Cha...		True/false (boole...	False
Model Data Has Changed		True/false (boole...	False
Model Structure Has Changed		True/false (boole...	False
Export location		Text (string)	Default_Outboun...
Enable model export		True/false (boole...	True
Default currency		Member of dimen...	[Currency].[All Me...
FXF	FXF Flow	Member of dimen...	[Flow].[All Membe...
FXO	FXO Flow	Member of dimen...	[Flow].[All Membe...

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Dimensions, Members, Member Sets, Member Views, Member Properties

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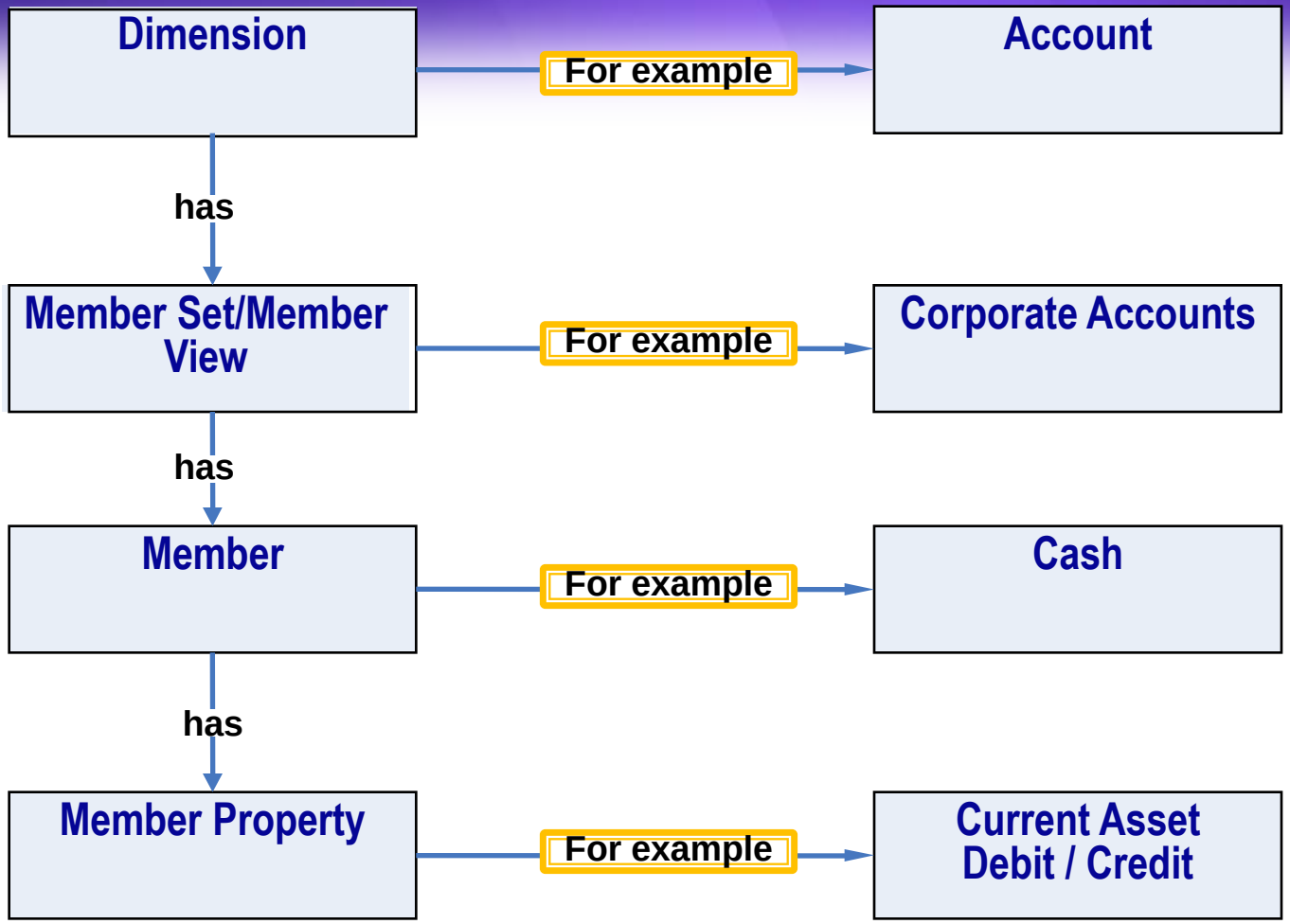
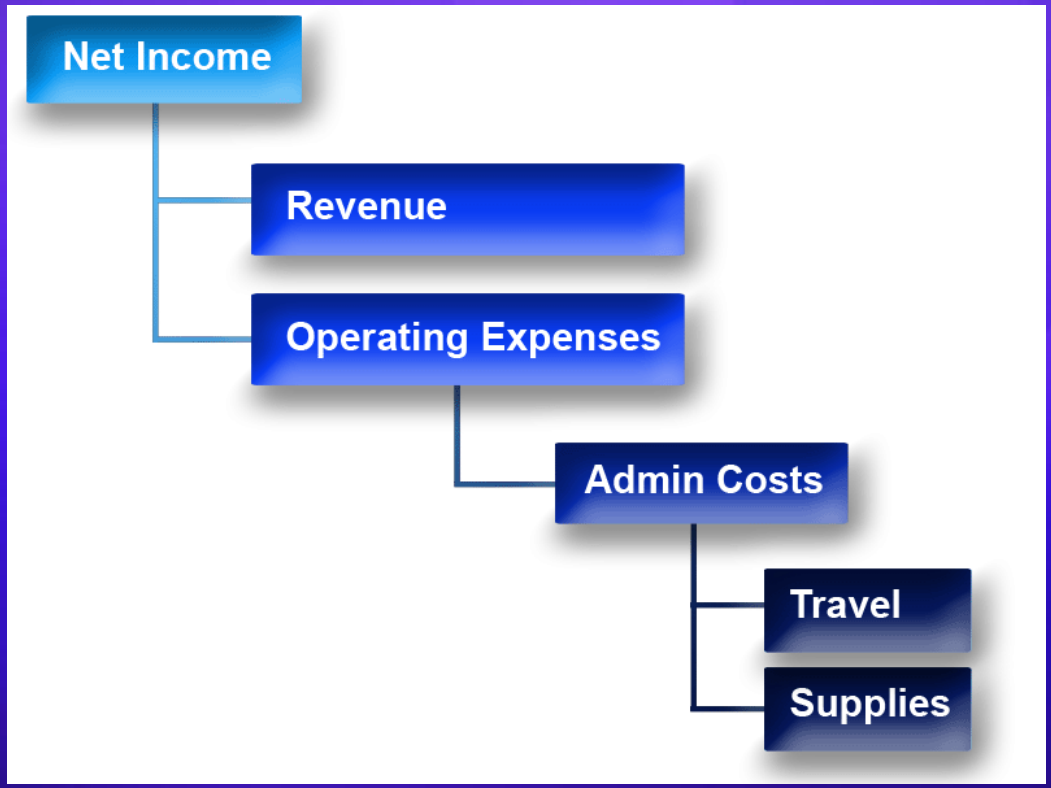
Dimensions


Dimension
For example
Account
has
Member Set/Member View
For example
Corporate Accounts
has
Member
For example
Cash
has
Member Property
For example
Current Asset Debit / Credit

Member Sets (Hierarchies)

- A Member set is Defined by a set of Members of a Dimension organized in a hierarchy based on specific grouping needs.



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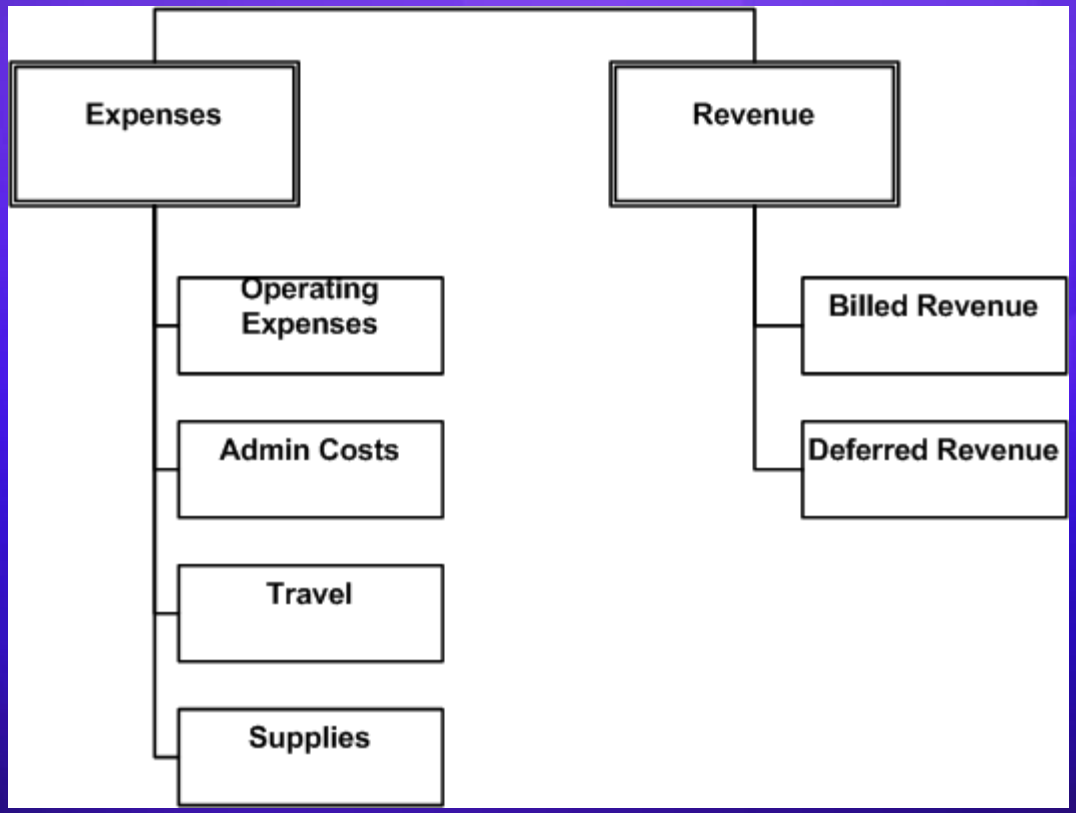
Member View

- A Member View is Defined by all Members of a Dimension or Member Set organized in a Hierarchy based on a specific Member Property



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System-Generated Dimensions by Model Type

Model Type	Pre-Defined Dimensions
Generic Model	Scenario, Time
Assumptions Model	Scenario, Time
Exchange Model	Scenario, Time, Source Currency, Exchange Rate, Destination Currency, Entity
Financial Model With Shares Calculation	Scenario, Time, Account, BusinessProcess, Entity, TimeDataView, Flow, Consolidation Method, Owned Entity
Financial Model Without Shares Calculation	Scenario, Time, Account, BusinessProcess, Entity, TimeDataView

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Data Integration

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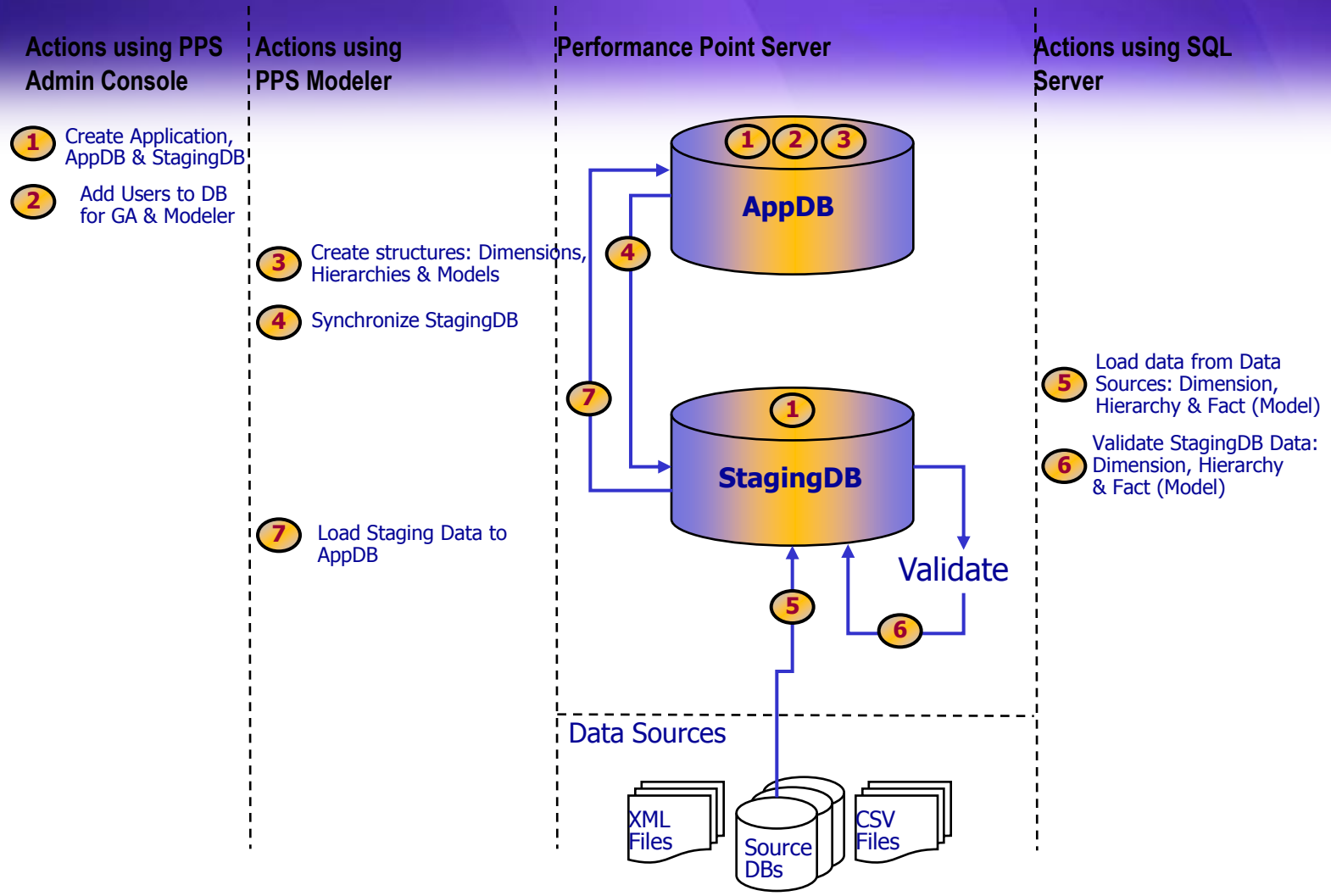
Data Integration Flow



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Users, Roles, and Security

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Security in PPS – Role Based

- Role-Based Security in PPS
  - Administrative Roles
  - Business Roles

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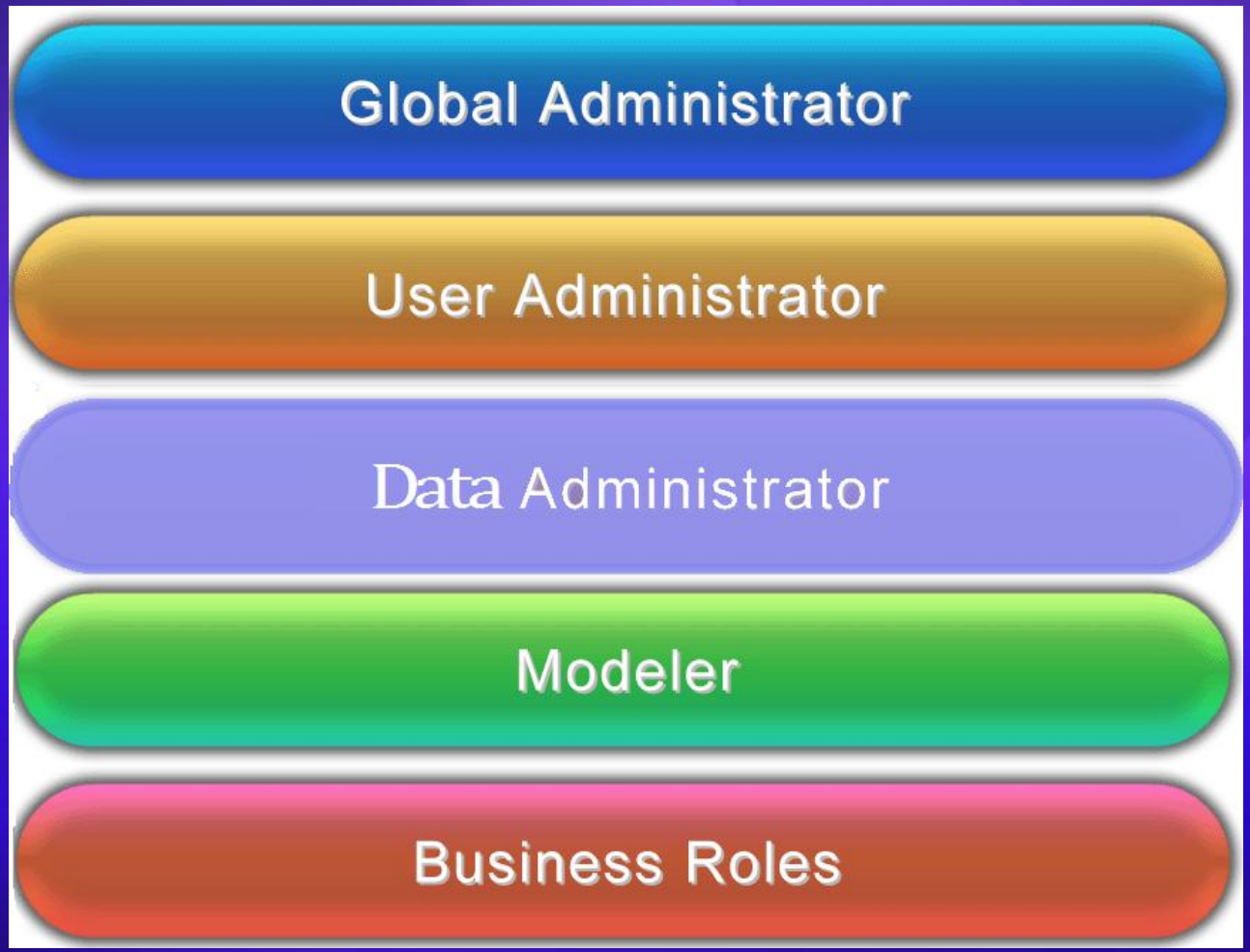
Users and Roles: GA, UA, DA, Modeler, and Business Roles



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Forms and Reports in PPS Excel Add-In

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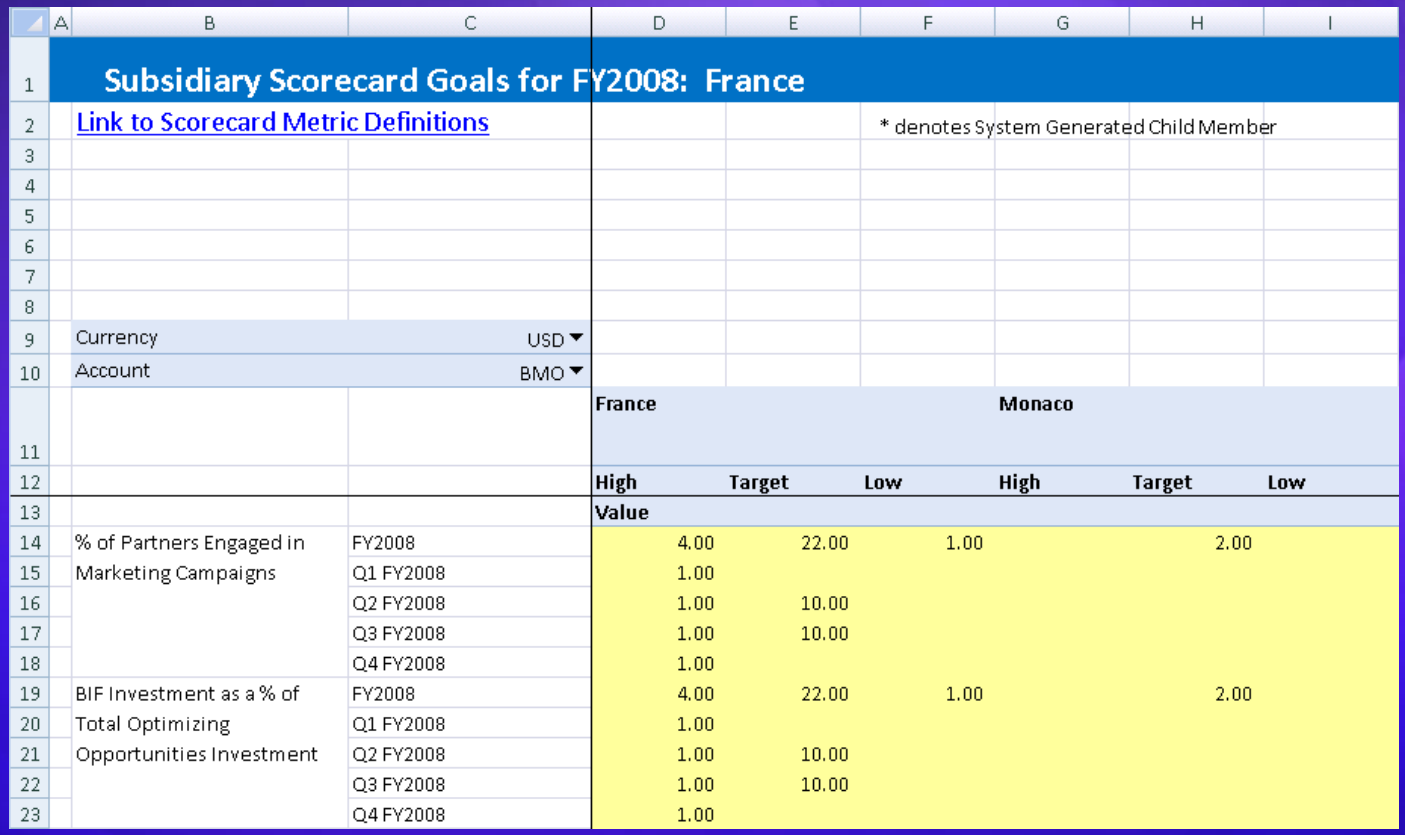
PerformancePoint Add-in for Excel



	A	B	C	D	E	F	G	H	I
1		Subsidiary Scorecard Goals for FY2008: France							
2		Link to Scorecard Metric Definitions				* denotes System Generated Child Member			
3									
4									
5									
6									
7									
8									
9		Currency	USD						
10		Account	BMO						
11				France			Monaco		
12				High	Target	Low	High	Target	Low
13				Value					
14		% of Partners Engaged in	FY2008	4.00	22.00	1.00		2.00	
15		Marketing Campaigns	Q1 FY2008	1.00					
16			Q2 FY2008	1.00	10.00				
17			Q3 FY2008	1.00	10.00				
18			Q4 FY2008	1.00					
19		BIF Investment as a % of	FY2008	4.00	22.00	1.00		2.00	
20		Total Optimizing	Q1 FY2008	1.00					
21		Opportunities Investment	Q2 FY2008	1.00	10.00				
22			Q3 FY2008	1.00	10.00				
23			Q4 FY2008	1.00					

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Financial Intelligence

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Calculations: Business Rules, and Jobs

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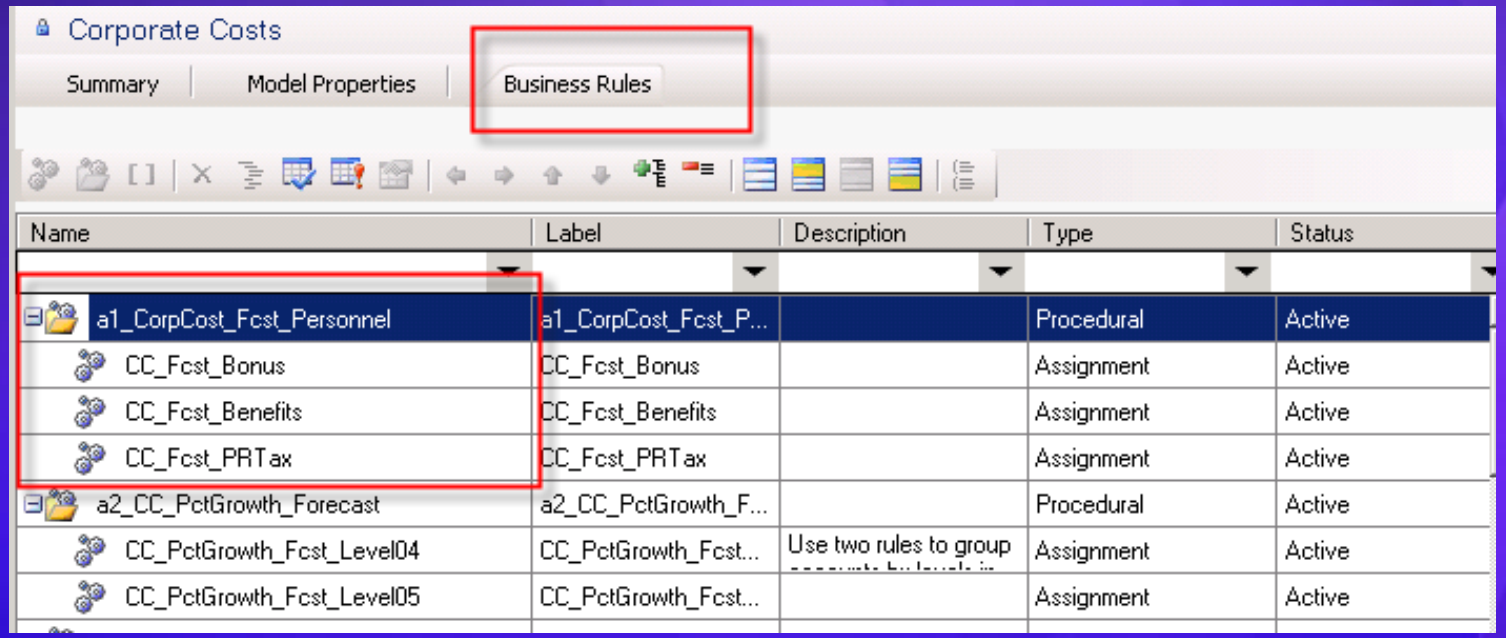
Business Rules and Rule Sets



Name	Label	Description	Type	Status
a1_CorpCost_Fcst_Personnel	a1_CorpCost_Fcst_P...		Procedural	Active
CC_Fcst_Bonus	CC_Fcst_Bonus		Assignment	Active
CC_Fcst_Benefits	CC_Fcst_Benefits		Assignment	Active
CC_Fcst_PRTax	CC_Fcst_PRTax		Assignment	Active
a2_CC_PctGrowth_Forecast	a2_CC_PctGrowth_F...		Procedural	Active
CC_PctGrowth_Fcst_Level04	CC_PctGrowth_Fcst...	Use two rules to group	Assignment	Active
CC_PctGrowth_Fcst_Level05	CC_PctGrowth_Fcst...		Assignment	Active

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Business Rule Types

Rule Type	Usage
Assignment	Assigns values to cells in the cube and writes the value back to the fact table. An assignment rule performs the operations specified on the right side of the equal sign (=), and stores the result in the location specified on the left side of the equal (=) sign, as per the Scope statement.
Allocation	Distributes the source value across a specified member set called the target. Allocation rules include single-model allocation, PullCrossModelAllocation, and PushCrossModelAllocation.
Definition	Calculate values “on the fly” as the values are requested in an Excel Form. These values are not stored in the cube. This rule type is suited to calculate Variances or Variance Percent.
Variable	Assignment statement to update the value assigned to a model property.
Currency	Converts currency values from one exchange rate to another
Intercompany Reconciliations	Balances transactions that occur between different partner entities in a parent company
Consolidation	Consolidates account data in a multi-company scenario. There are two kinds of consolidation processes: with shares calculation, and without shares calculation. Both kinds include currency conversion and elimination of intercompany transactions. Consolidation with shares calculation also includes calculating percent consolidation and minority ownership.
Outbound	Delivers data to an external target.

Rule Implementation

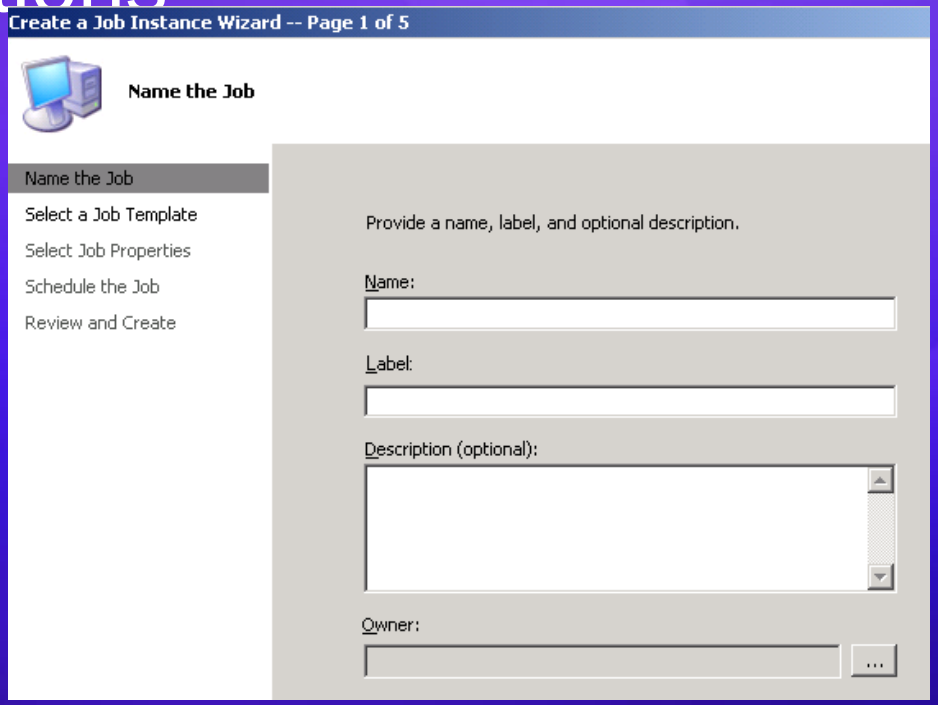
Implementation	Permitted Rule Types	Usage
MdxQuery	• Assignment Rules • Allocation Rules • PushCrossModelAllocation • PullCrossModelAllocation	Rules are written in PerformancePoint Expression Language (PEL). The target subsystem generates MDX query language that is executed against both the cube and fact table at rule runtime.
SQL	• Assignment Rules • Allocation Rules	Rules are written in PEL. The target subsystem generates SQL code from the rule that is executed against both the cube and fact table at rule runtime.
Outbound	• Outbound Rules	•Rules are written using the PEL Scope Editor to define the data to be exported from the cube. Outbound rules are generally run as jobs.
General	• Variable Rules	•Assignment statement to update the value assigned to a model property.
NativeMDXQuery (Special)	• Assignment Rules	•Rule is written in native MDX that is executed against the fact table and cube at rule runtime.
NativeSQL (Special)	• Assignment Rules	Rule is written in SQL code, rule is run as a direct pass-through to the SQL database, executing only against the fact table.

Rule Set Types

Rule Set Type	Permitted Rule Types	Usage
Procedural	Allocation rules Assignment rules Variable Rules	•Rules that perform allocations •Rules that perform user-defined calculations •Rules that assign values to model properties
Automatic	Assignment rules	Rule executes automatically when the cube reprocesses.
Definition	Definition rules	Calculations that be calculated every time that the model is deployed, and become part of the model definition. This rule set type does not create Fact records, only values in the Cube.
Outbound	Outbound rules	Use this rule set type to export data to an external target.
Currency	Currency rules	Use this rule set type to perform currency conversions from local currency to the Parent's reporting currency.
Intercompany Reconciliation	Intercompany reconciliation rules	Use this rule set type for eliminating transactions between related entities.
Consolidation	Consolidation rules	Rule set type for rules that create elimination entries for a financial model with (or without) shares calculation.

Jobs

- A Job is an automated system task, such as loading data, running Rule Sets, or sending Notifications



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Process Management: Cycles and Assignments

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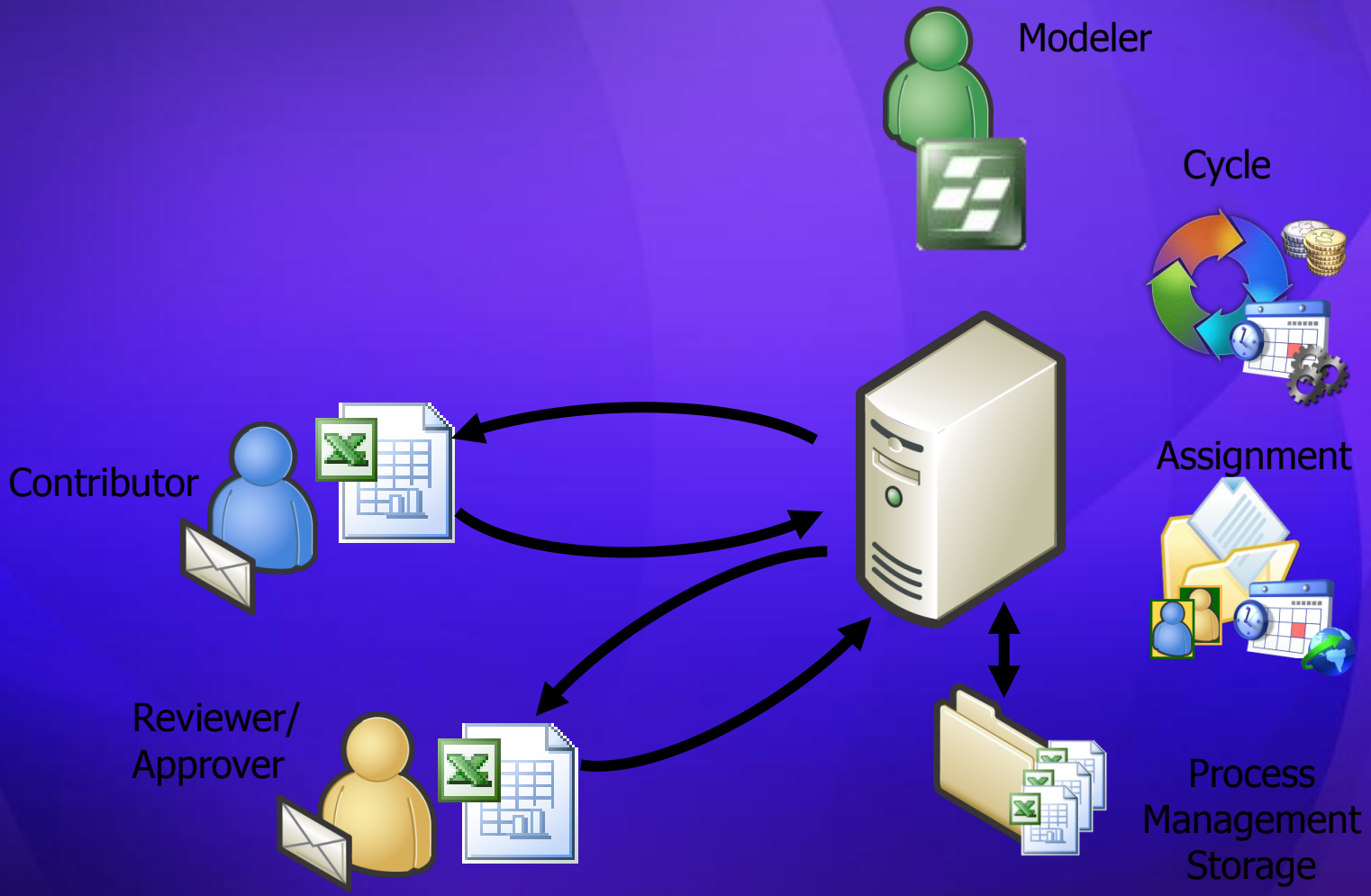
PerformancePoint Process Management



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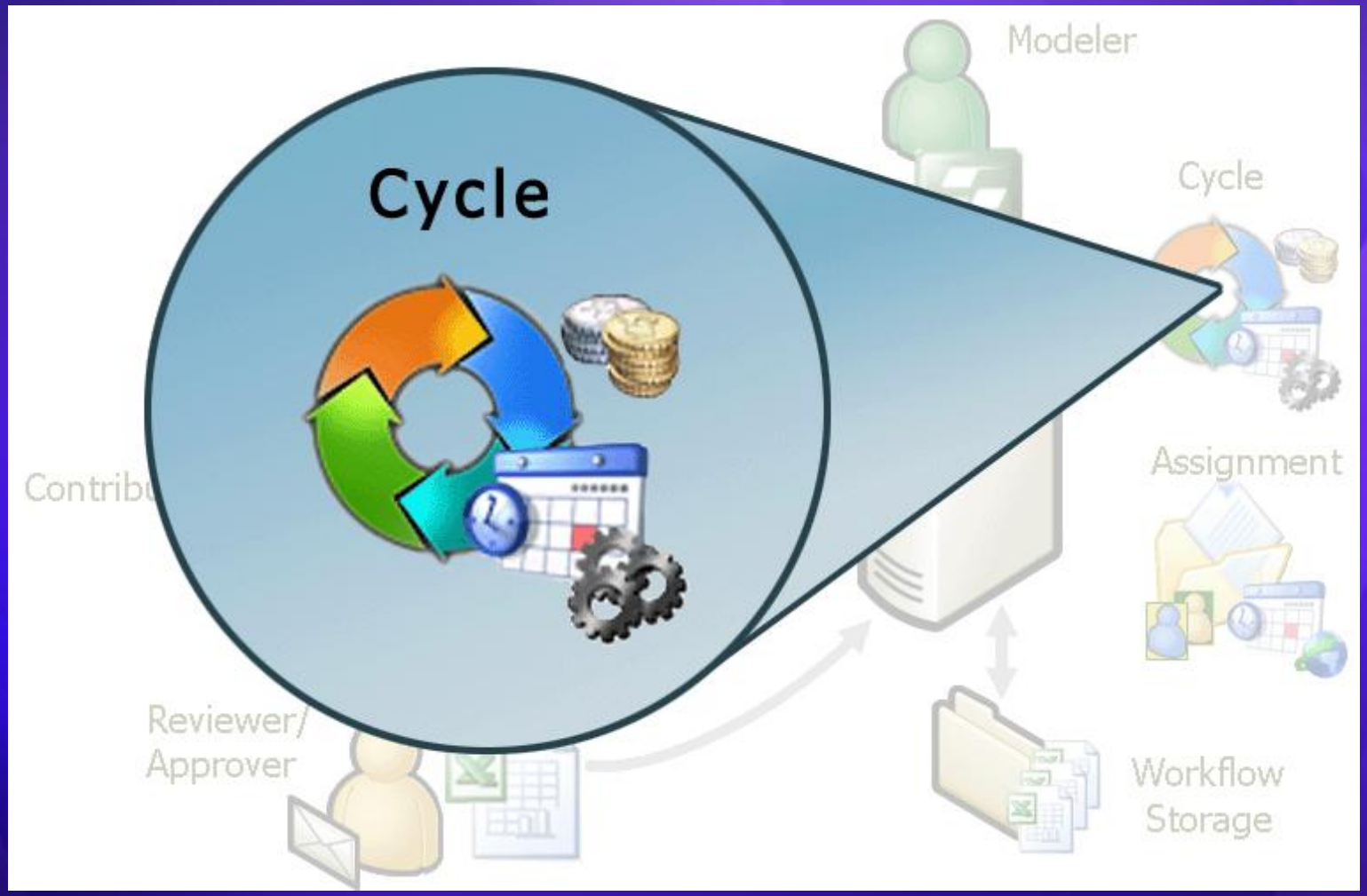
Cycles



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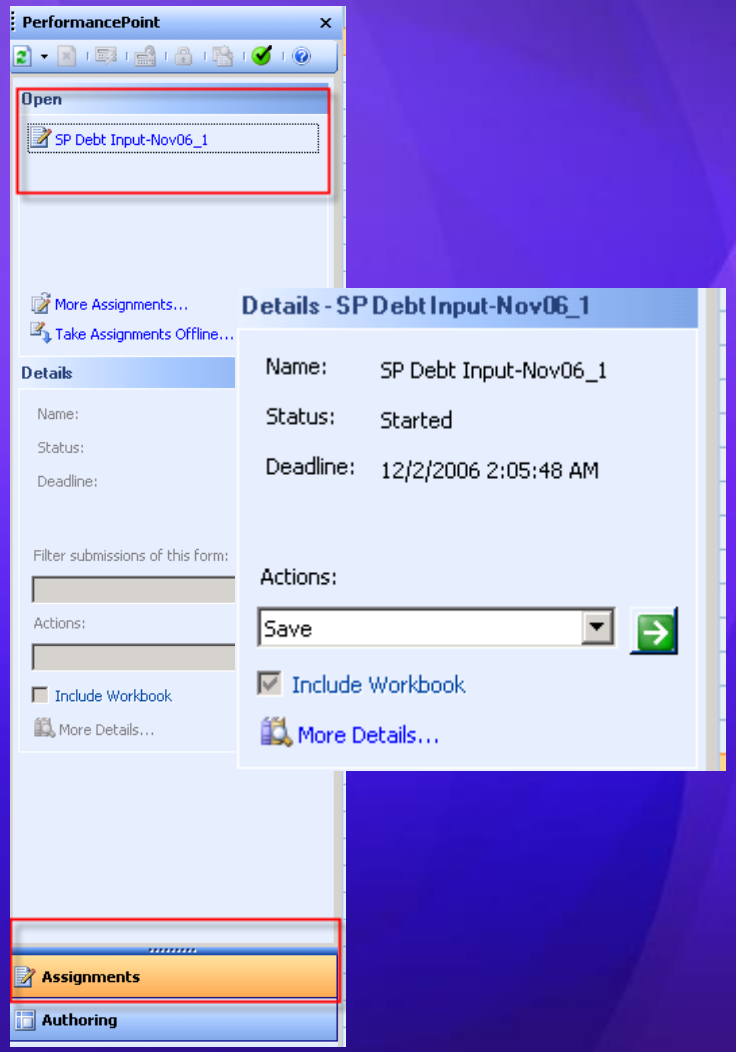
Assignments

- The Assignments action pane is the default action pane of the PerformancePoint Add-in for Excel.
- You can use the action pane to
  - Open Assignments
  - View Assignment details
  - Save
  - Submit
- The Assignments action pane contains a toolbar and two sections.



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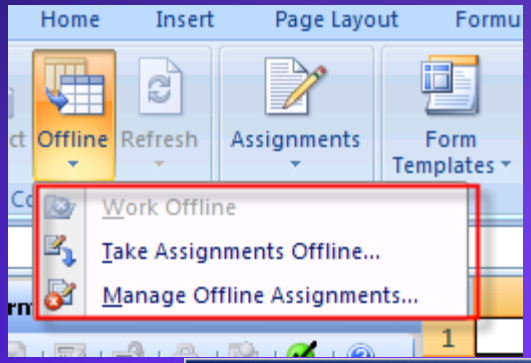
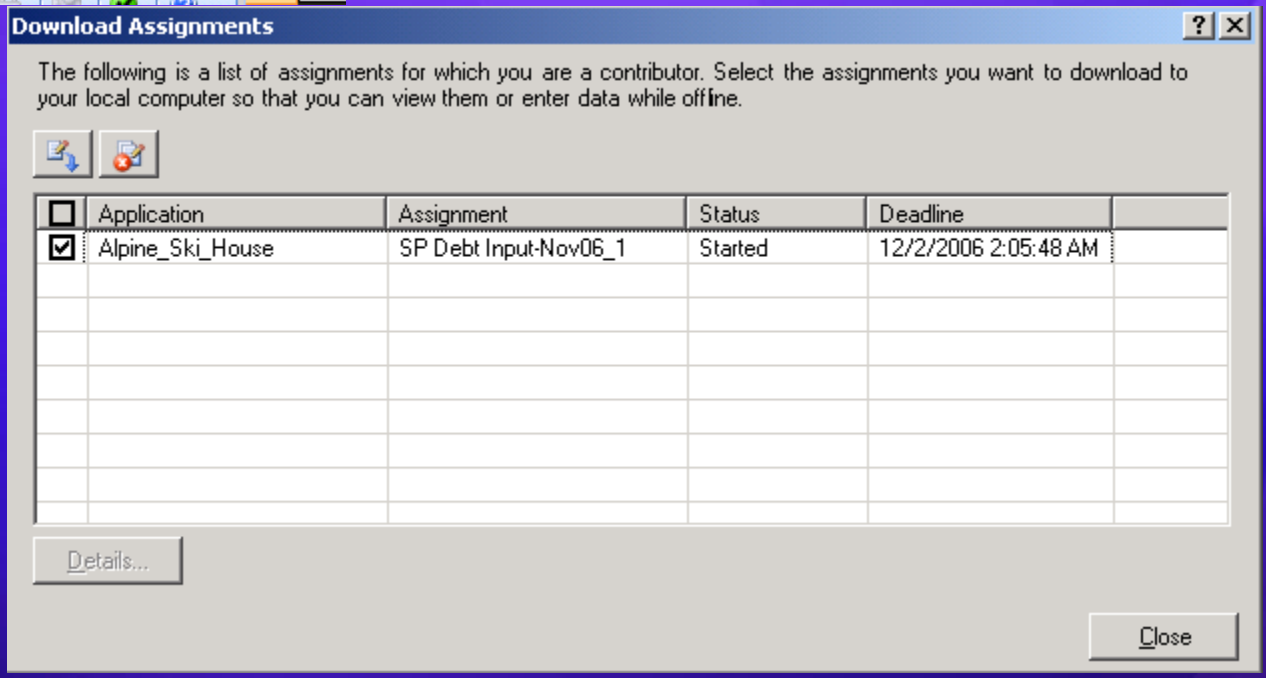
Offline





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Questions

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