Modern, extensible platform

Source-system agnostic

Fully PaaS, ARM templated with DevOps source control

Re-usable ELT templates to accelerate BI

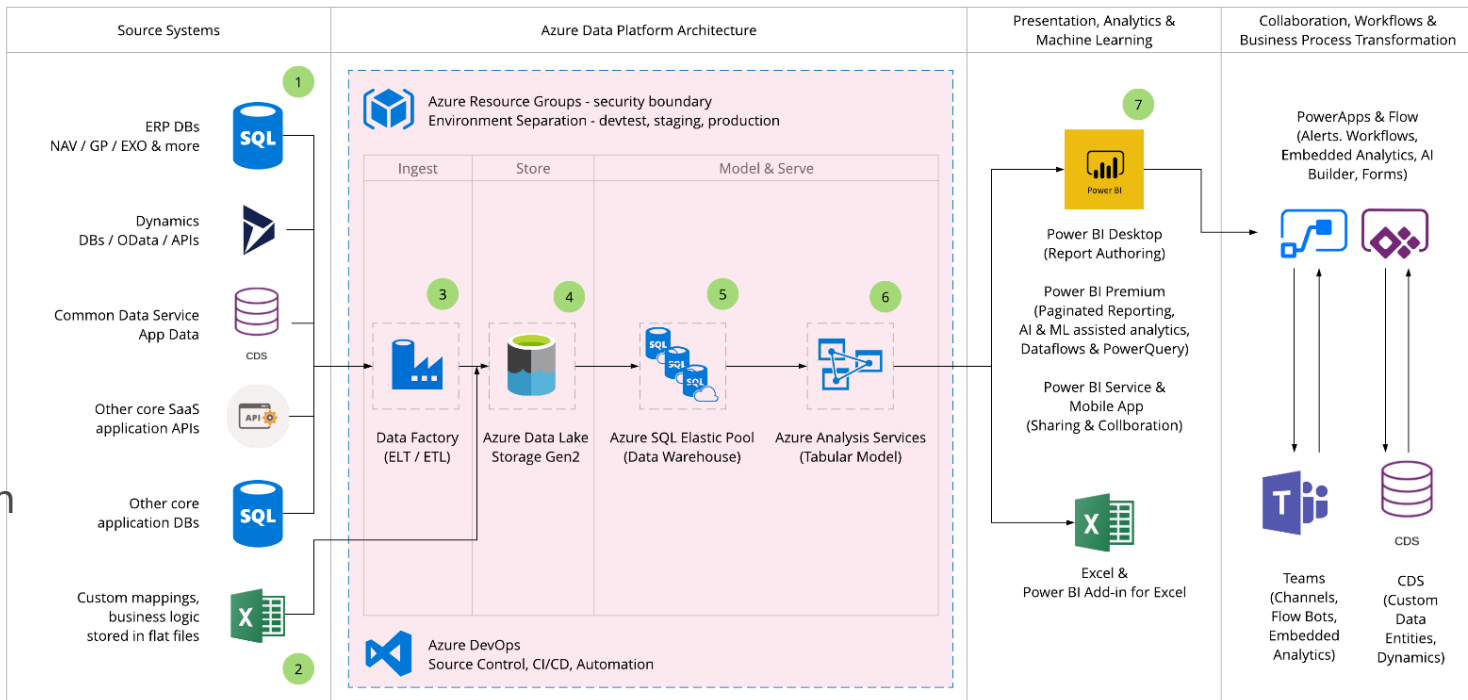**Finance (GL, Sales, Inventory and more) Reporting & Analytics from ERP systems**
Fully PaaS, source-controlled environments (devtest, staging and production) quickly deployable from ARM templates with minimum customization
Estimated Azure Subscription Pricing of $5000/month

Source Systems	Azure Data Platform Architecture	Presentation, Analytics & Machine Learning	Collaboration, Workflows & Business Process Transformation

Source Systems
- ERP DBs NAV / GP / EXO & more — SQL
- Dynamics DBs / OData / APIs
- Common Data Service App Data — CDS
- Other core SaaS application APIs — API
- Other core application DBs — SQL
- Custom mappings, business logic stored in flat files

Azure Data Platform Architecture

Azure Resource Groups - security boundary
Environment Separation - devtest, staging, production

Ingest | Store | Model & Serve

- Data Factory (ELT / ETL)
- Azure Data Lake Storage Gen2
- Azure SQL Elastic Pool (Data Warehouse)
- Azure Analysis Services (Tabular Model)

Azure DevOps
Source Control, CI/CD, Automation

Presentation, Analytics & Machine Learning
- Power BI Desktop (Report Authoring)
- Power BI Premium (Paginated Reporting, AI & ML assisted analytics, Dataflows & PowerQuery)
- Power BI Service & Mobile App (Sharing & Collboration)
- Excel & Power BI Add-in for Excel

Collaboration, Workflows & Business Process Transformation
- PowerApps & Flow (Alerts. Workflows, Embedded Analytics, AI Builder, Forms)
- Teams (Channels, Flow Bots, Embedded Analytics)
- CDS (Custom Data Entities, Dynamics)

1. Financial data (GL, Inventory, Sales and more) from on-premises ERP implementations like NAV or Exo , and CPM data (Budgets/Foreacasts) if available

2. Master data (GL account or cost center hierarchy) or Budget/Forecast data , manual adjustments etc. maintained in excel models

3. Baseline best practices templates set up to enable immediate start of development of extraction packages

4. Staging layer for unstructured and structured data. Ingestion can be automated using Data Facotry or ad-hoc using clients like Azure Storage Explorer

5. An elastic pool of Azure SQL DBs are used to tranform the data and store within a warehouse schema

6. Spun up to create and maintain large enterprise data models; However, if data volumes are small, then Power BI datasets are sufficient

7. Power BI's AI capabilities used for forecasting and more If Power BI Premium is not available, then SQL Server VM will be required to enable Paginated reporting.

8. All elements of the Power Platform can be utilized to convert insights from the data platform to action and value through business transformation

walkerscott