Future State Architecture

Reporting Layer

Control & Exception Reports (Anomalies Data)

| Excel Report1 | Excel Report 2 | Excel Report3 |

Visualization

Power BI Dashboard

Star Schema (Denormalized Data Structures)

Daily Batch Schedule

Adhoc / Monthly Batch Schedule

Real time Streaming

Enterprise Data & Analytics Platform

Analytical Layer

Refined Layer

Prep Layer

Ingestion Layer

Analytical Data

IT (1st Line of Defense)

Risk & Compliance (2nd Line of Defense)

Assurance Team (3rd Line of Defense)

Custom Algos

Refined Datasets

HR

Active Directory

Normalized Data Structures (without Aggregations)

Data Preparation

| Data Joins | Business Rules |

| Cleansing | De-Duplication | Transformation | Enrichments | Harmonization |

Raw/Ingest Data

Daily Deltas Snapshots

Real-time Deltas

Historical Snapshot

Lookup/Control Tables

Admin & Other Functions

- Archiving
- Permissions
- Orchestration
- Information Security
- Data Profiling
- Versioning
- ELT

Daily Batch Process

Real-time streaming

One time Historical Load

Adhoc/Monthly Load

Sources
(Structured, Semi-Structured & Unstructured Data)

| HR | | Active Directory | Control Files |

| Internal Sources | | External Sources | Lookup Files |

SB