



Forest Grove  
Data-Driven Decision Making

Optimising technology to  
unlock insights that drive  
better business decisions

# Forest Grove Customer Conference 2023

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# [D1S4.1] Connected Services - Integrating data sources for consistent access & delivery

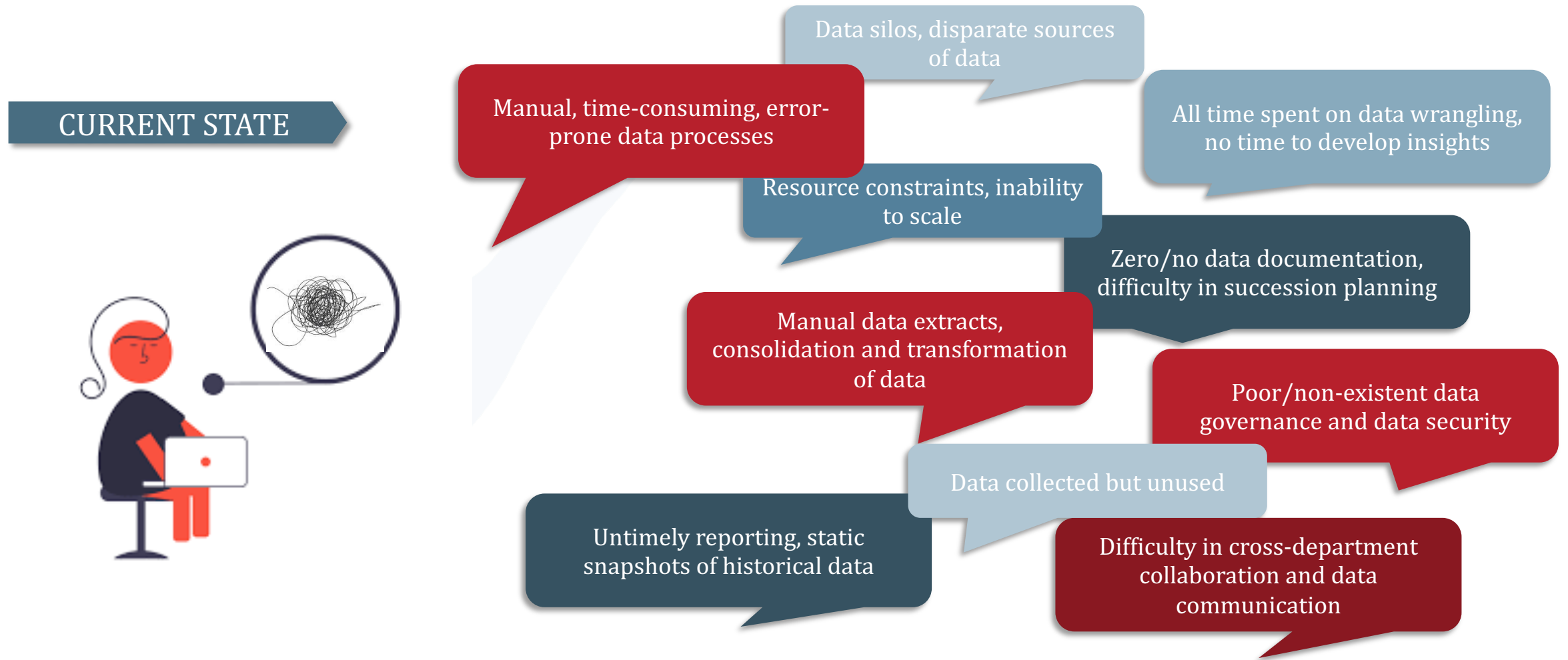
Presented by:

Ross Gaskell - Director, Forest Grove

## About the session:

Combining data from multiple sources into a single trusted and unified view is a critical cornerstone of modern organisations. It enables organisations to make informed decisions, improve operational efficiency, and gain a competitive advantage with consistent access to and delivery of your most important data. This presentation will showcase how our team can help you get the best out of your internal and external data sources. In addition, the Connected Services platform empowers your team to get in front of the game by taking advantage of the latest Data Science capabilities, including Machine Learning, Predictive Modelling and creating your own Custom Data Applications.

# Common data frustrations and risks experienced by organisations

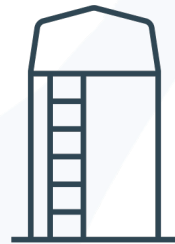


# Common data and system challenges

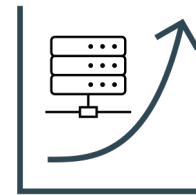
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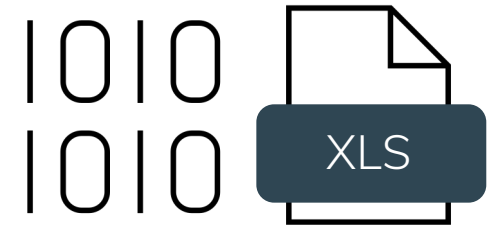
Disparity of Systems



Siloes



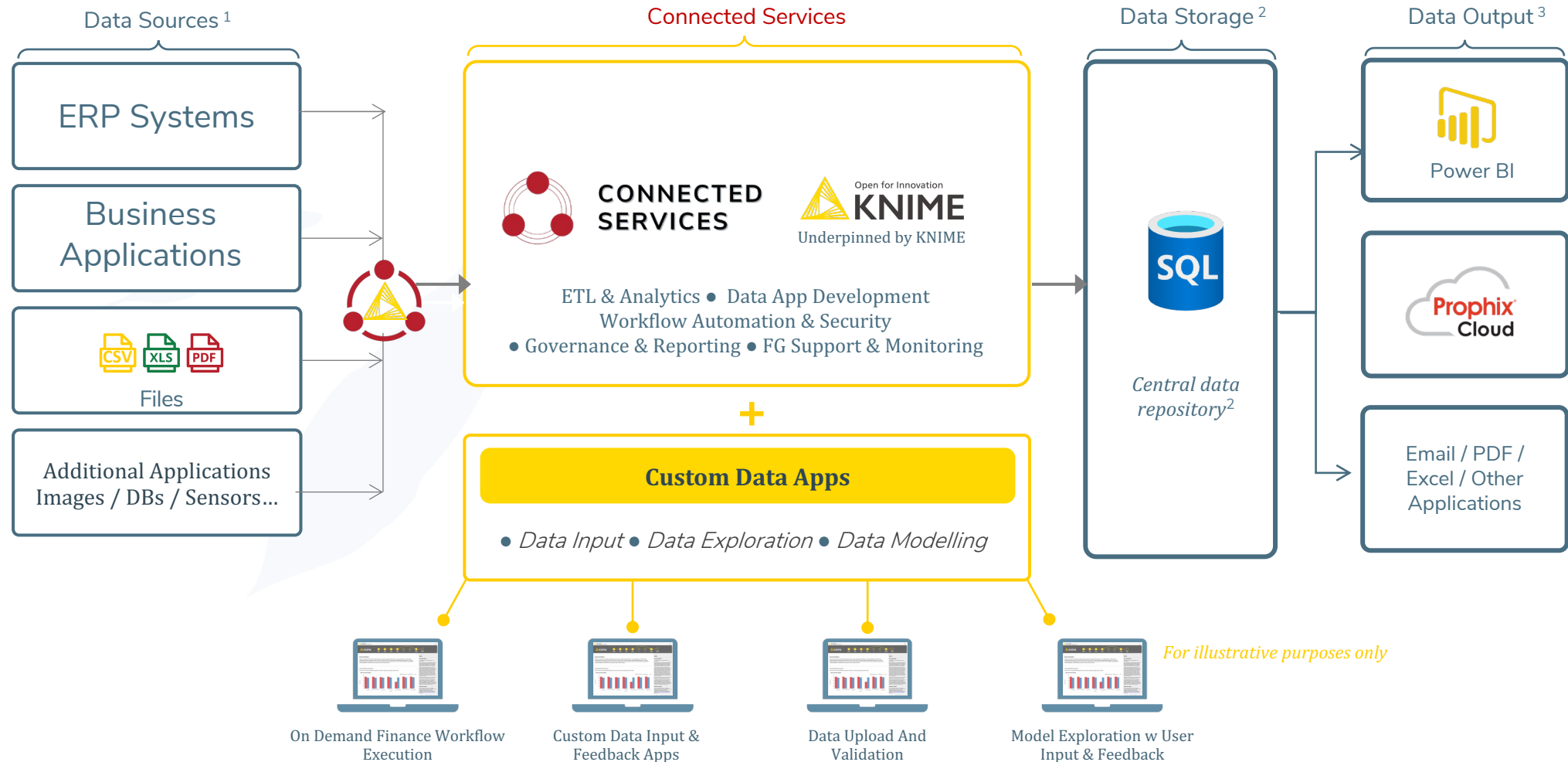
VVVV



Traditional Tools

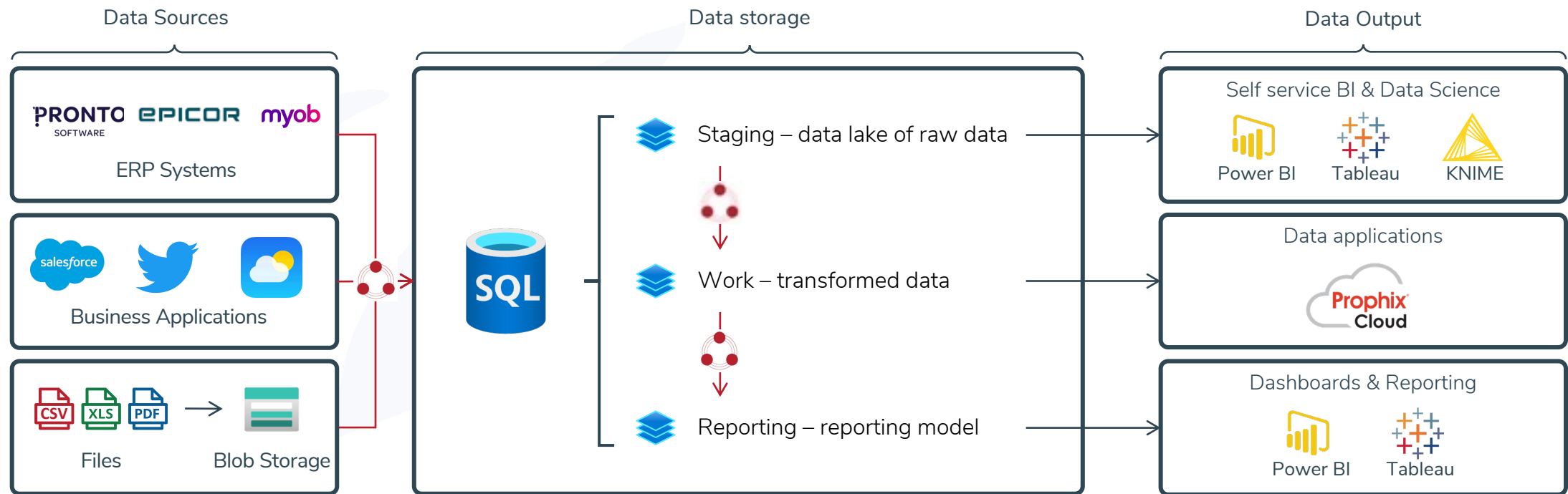
# Connected Services Overview

Below is a high-level solution overview of a comprehensive data connection services solution using Connected Service. KNIME is the 'backbone' of Connected Services and responsible for all data integrations and required transformations.



# Connected Services Methodology

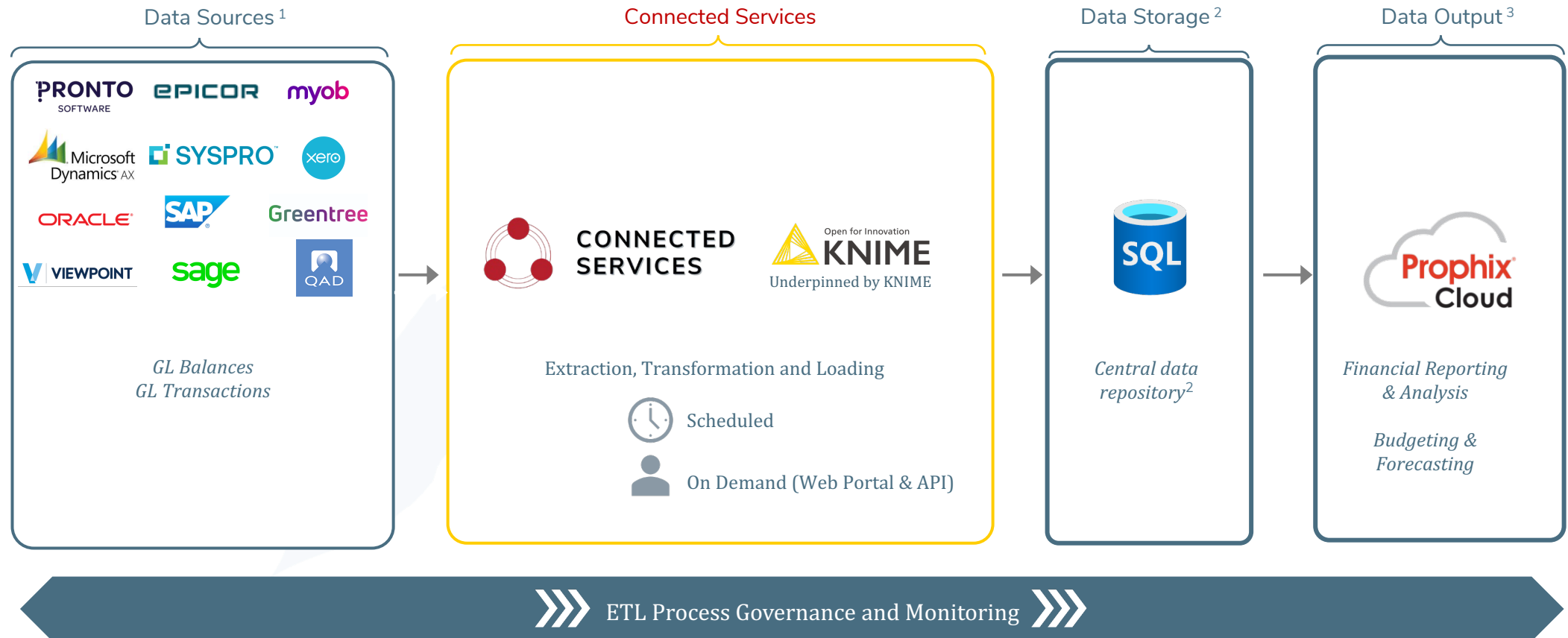
Connected Services is not just data pipelines extracting, transforming, and loading the data. There is a methodology to support any data blending or integration that can fit any use case.



 Connected Services Pipelines

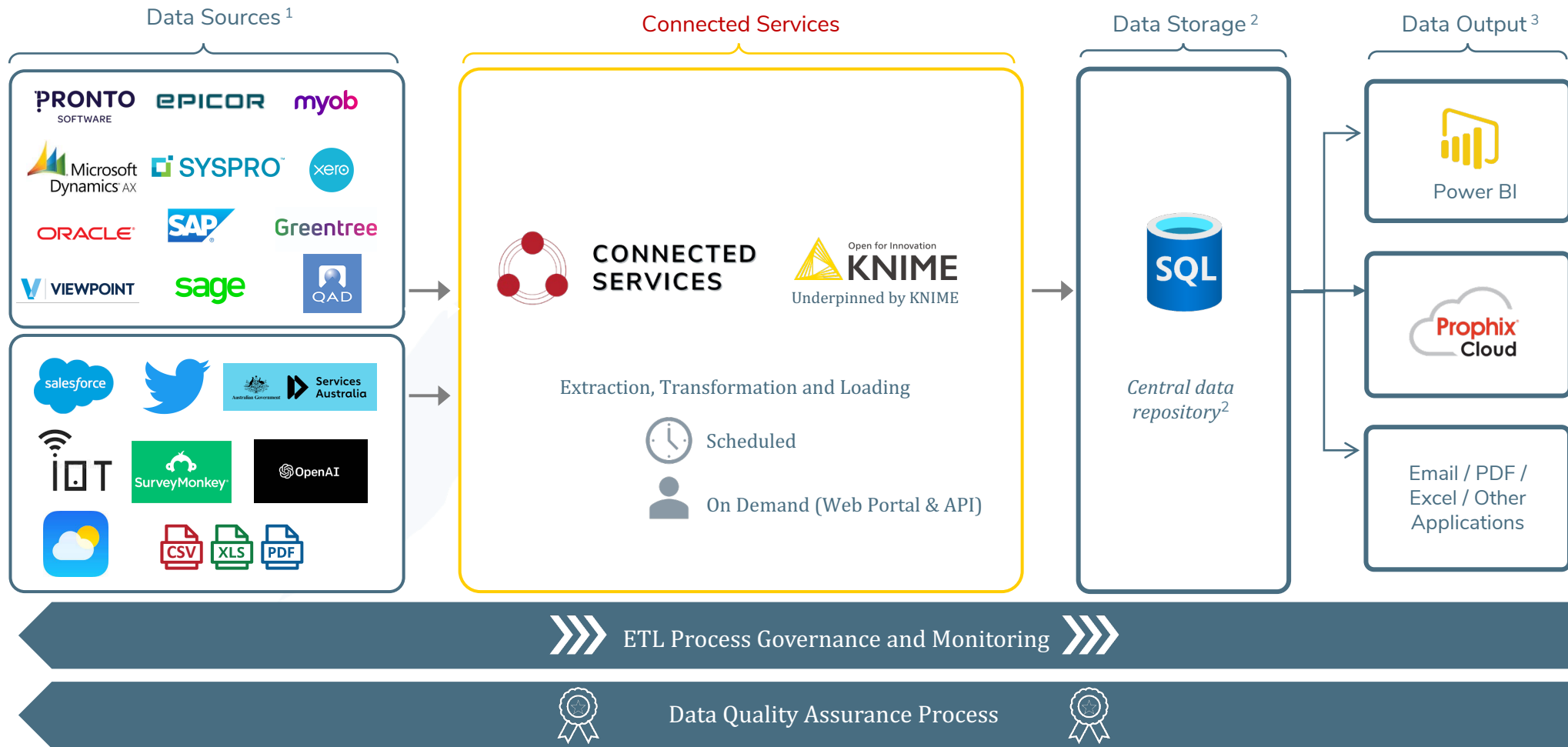
# Connected Services – Level 1

Connected Services Level 1 focuses on the ETL process which extracts GL balances and GL transactions for your relevant ERP / Accounting applications. These processes can be scheduled to run on a regular basis as well as being executed on demand. The GL balances and transactional data is transformed as required stored in a central data repository before being made available to the Prophix Cloud Application.



# Connected Services – Level 2

Connected Service Level 2 incorporates additional data sources and applies your relevant data quality assurance rules. This data is then made available via the central data repository to enable reporting, analysis and visualisations across various platforms, including Power BI, Tableau, Prophix Cloud, flat files and other applications as required.





# Connected Services Level 2 – Data Quality Assurance Illustrative Example



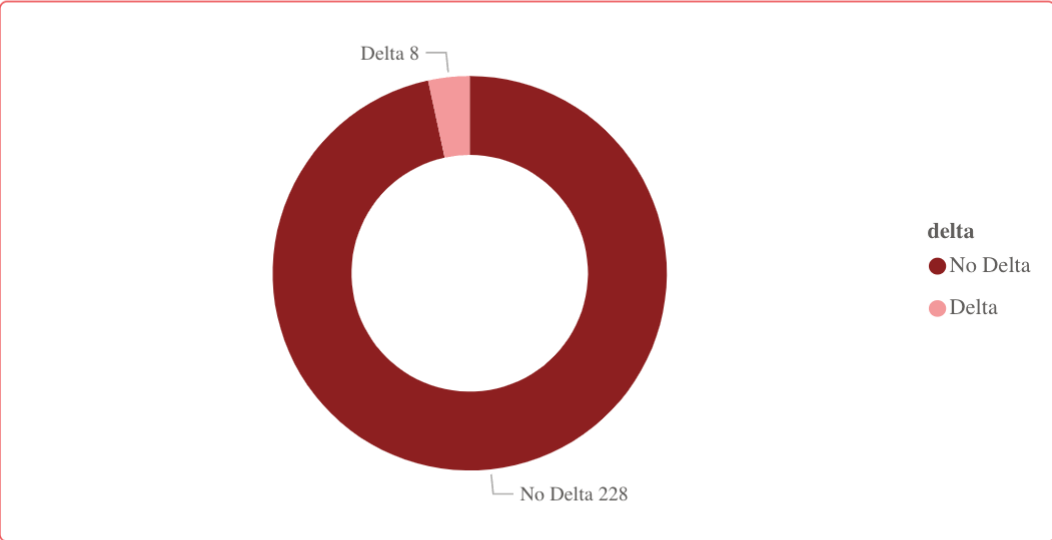
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## Data Governance - Data Comparison

Project Code	Data Match	Consolidated - Cost	Cost Base - Cost	Delta Value
840530	✗	\$1,085,770.74	\$3,757,312.18	\$2,671,541.44
900238	✗	\$8,123,654.00	\$8,129,979.59	\$6,325.59
844710	✗	\$23,671,633.00	\$23,671,633.42	\$0.42
841110	✗	\$37,197,332.96	\$37,197,333.31	\$0.36
833010	✗	\$14,550,918.24	\$14,550,918.59	\$0.35
204120	✗	\$9,093,004.00	\$9,093,004.03	\$0.03
100010	✓	\$1,772,062.92	\$1,772,062.92	\$0.00
101110	✓	\$513,695.40	\$513,695.40	\$0.00
101130	✓	\$9,685,910.16	\$9,685,910.16	\$0.00
102110	✓	\$24,443.41	\$24,443.41	\$0.00
102150	✓	\$369,320.52	\$369,320.52	\$0.00
102160	✓	\$728,009.28	\$728,009.28	\$0.00
102190	✓	\$532,379.69	\$532,379.69	\$0.00
102200	✓	\$30.96	\$30.96	\$0.00
202110	✓	\$1,873,719.38	\$1,873,719.38	\$0.00
204110	✓	\$566,087.40	\$566,087.40	\$0.00
205110	✓	\$1,113,766.83	\$1,113,766.83	\$0.00
210160	✓	\$2,820.84	\$2,820.84	\$0.00
222190	✓	\$1,333,902.02	\$1,333,902.02	\$0.00
222250	✓	\$2,660,820.98	\$2,660,820.98	\$0.00
222310	✓	\$919,885.67	\$919,885.67	\$0.00
<b>Total</b>	<b>228</b>	<b>\$297,062,038.92</b>	<b>\$299,739,906.71</b>	<b>\$2,677,867.79</b>

Project Code Filter

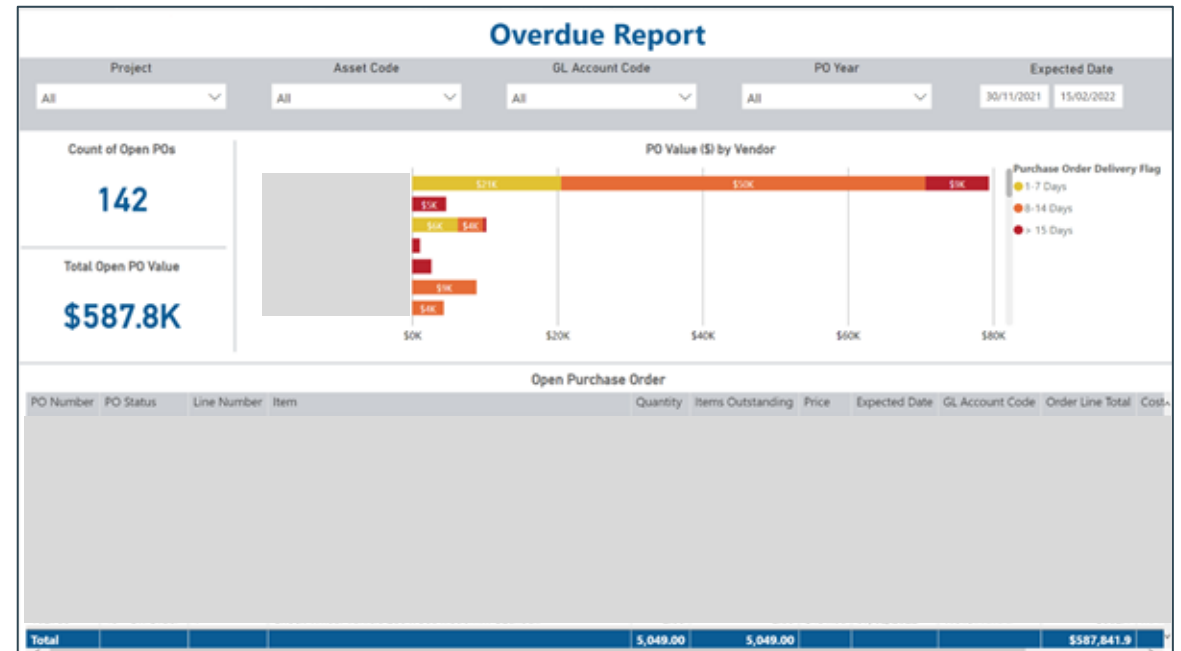
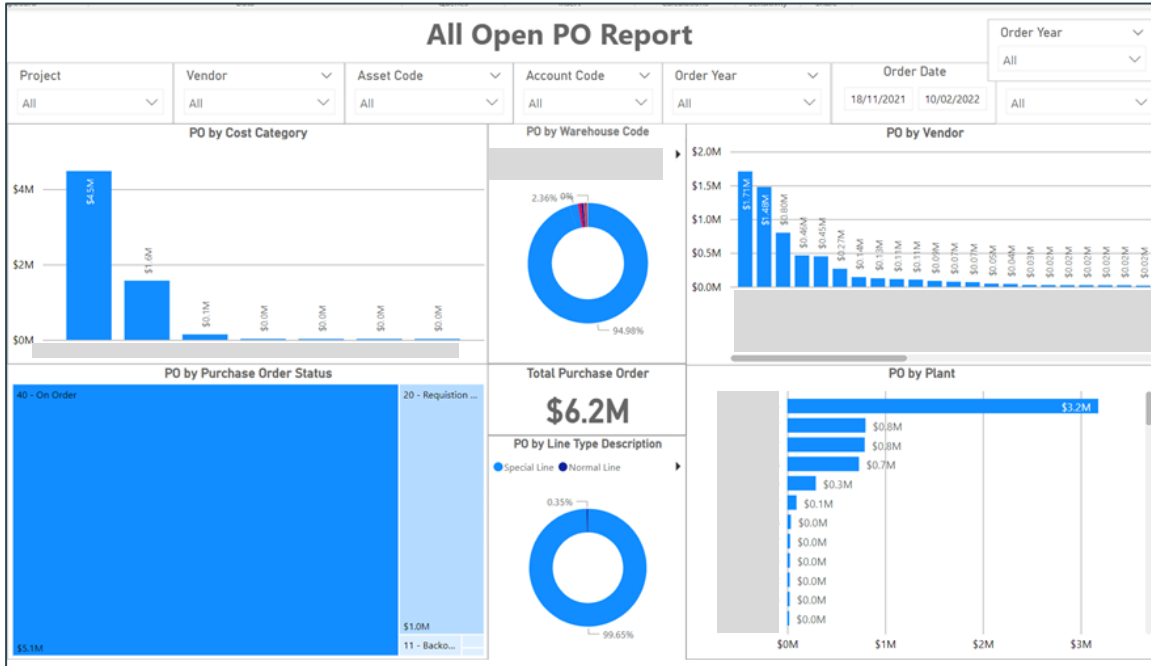
Delta Filter



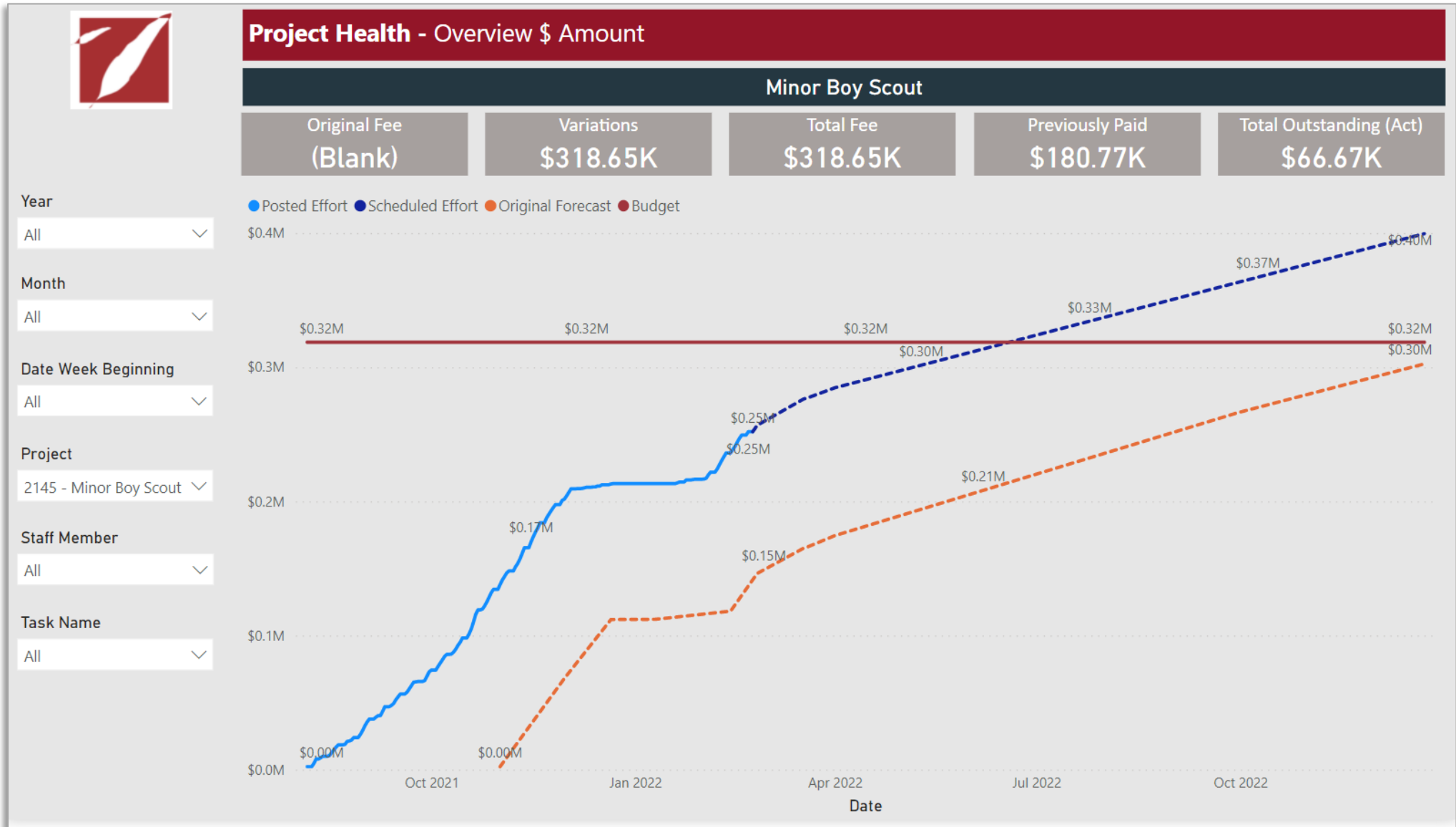
**Purpose:** This dashboard shows the differences between Base costs and Total Balances by Costbase, due to source data issues. The data is reported on a per-project basis.

# Connected Services Level 2 – Purchase Order / Project Monitoring Example

Forest Grove’s customers require their finance team to monitor and manage the spends of Purchase Orders during each project. Through use of Connected Services to Power BI, both finance and project teams are able to monitor company PO’s by project categories.

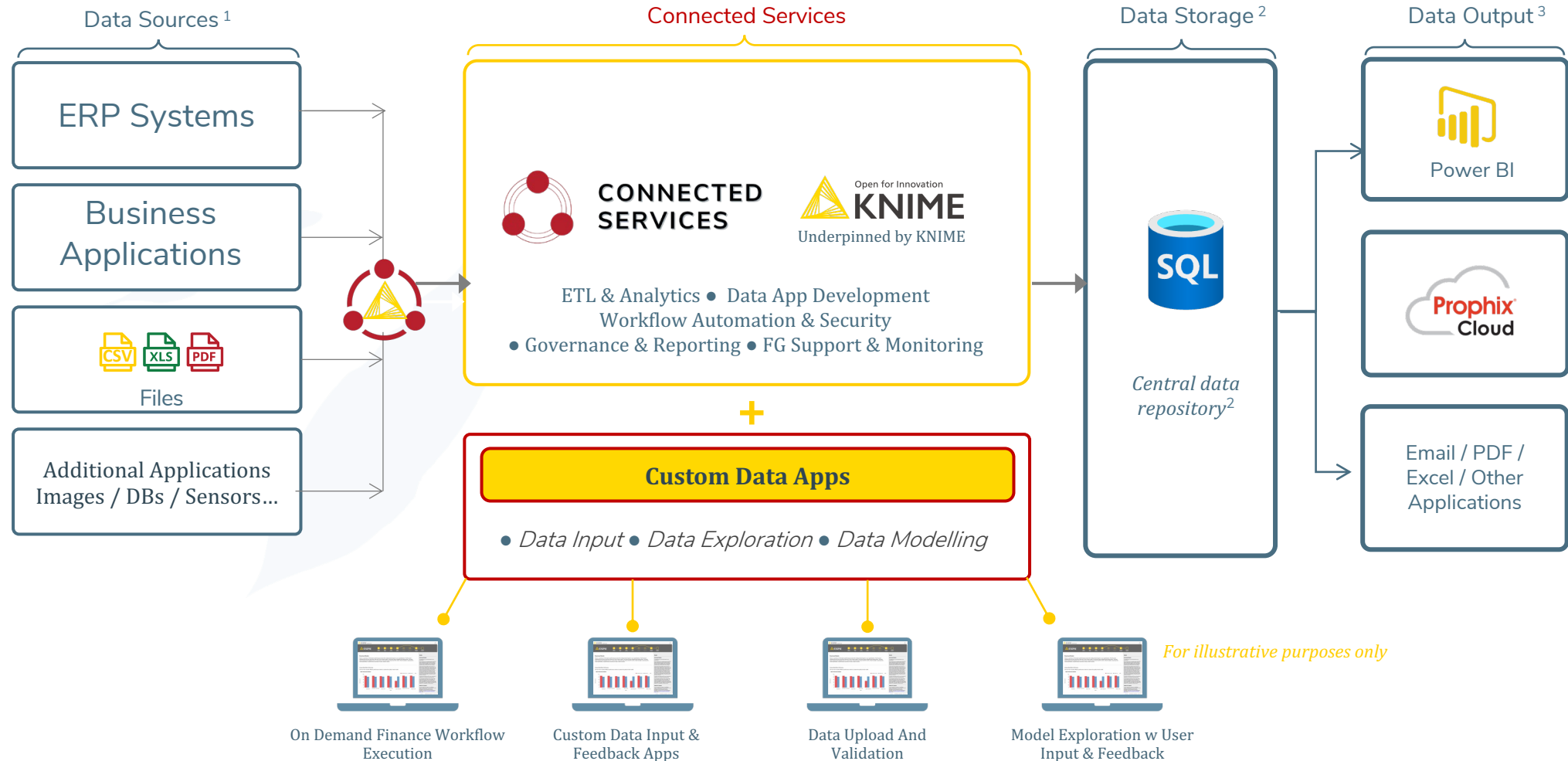


# Connected Services Level 2 – Project Health Example



# Connected Services – Level 3

Connected Service Level 3 support the creation and deployment of Custom Data Apps made available through any modern web browser. These Data Apps can be designed for all sorts of different purposes including, data input / collection, dynamic data exploration / analysis and advanced data modelling.



# Designing and Deploying Data Apps

The interface features a top navigation bar with a logo and a flowchart showing three steps: 'Explore data', 'Define risk criteria', and 'Download results'. Below this, there are two main sections: 'Nominal columns' and 'Numeric columns'. The 'Nominal columns' section includes three categories: 'Other debtors / guarantors', 'Property', and 'Status of existing checking account', each with a 'Weight' dropdown set to '1'. The 'Numeric columns' section includes 'Savings', 'Age in years', and 'Number of existing credits at this bank', each with a range slider and a 'Weight' dropdown set to '1'. A 'Apply criteria' button is located below the numeric columns. At the bottom, there is a 'Select grouping column' dropdown set to 'Gender' and 'Back', 'Cancel', and 'Next' buttons.

The 'Composite View' window displays a flowchart with four steps: 'Upload Compounds', 'Explore Compounds', 'Evaluate Compounds', and 'Export Report'. Below the flowchart is a 'DISCLAIMER: Data App Flowchart Demonstration' section with explanatory text and a button to update the flowchart. Underneath, there are four buttons labeled 'Upload', 'Explore', 'Evaluate', and 'Export'. The main content area is titled 'Molecule Structures' and shows a list of six entries, each with a chemical structure and a score of '1'. The entries are labeled 'SJ00001...', 'SJ00011...', 'SJ00020...', 'SJ00005...', 'SJ00012...', and 'SJ00011...'. At the bottom right, there are 'Reset', 'Apply', and 'Close' buttons.

# Data App Examples

### 1 Owner Interface

**Process Setup Instructions**

Please:  
1. Enter your process name  
2. Select the process type

**Process Name**

Bank Reconciliation

**Process Type**

Data Entry  
 Recursive  
 Validation

**Process Setup Instructions**

Please:  
1. Adjust the following email trigger delays as required

**Frequency**

1

**Time Period**

Hours  Days  Weeks  Months

**Time of Day to send Reminder**

17 00

### 2 Respondent Interface

**Transaction being matched**

BankTransNo	BankTransAmt	BankDesc
3	100	MISC PAYMENT TELCO LIMITED   20191204   1010Z

Showing 1 to 1 of 1 entries

Timing Transaction  Bank-side Transaction

**GL Recommended Matches**

Identify Matching Transactions from the list below by using the checkboxes in the left column

Search: \_\_\_\_\_

GLTransNo	GLTransAmt	GLDesc
<input type="checkbox"/> A	80	2019-12-04   191204 EFT QST1010Z
<input type="checkbox"/> B	100.01	2017-11-20   171111 UC 000 CUSTOMER

**Finance process automation**  
Automate, manual error-prone tasks INCLUDING processes for manual data input, traditionally collected in disparate spreadsheets and forms

### Skills Matching

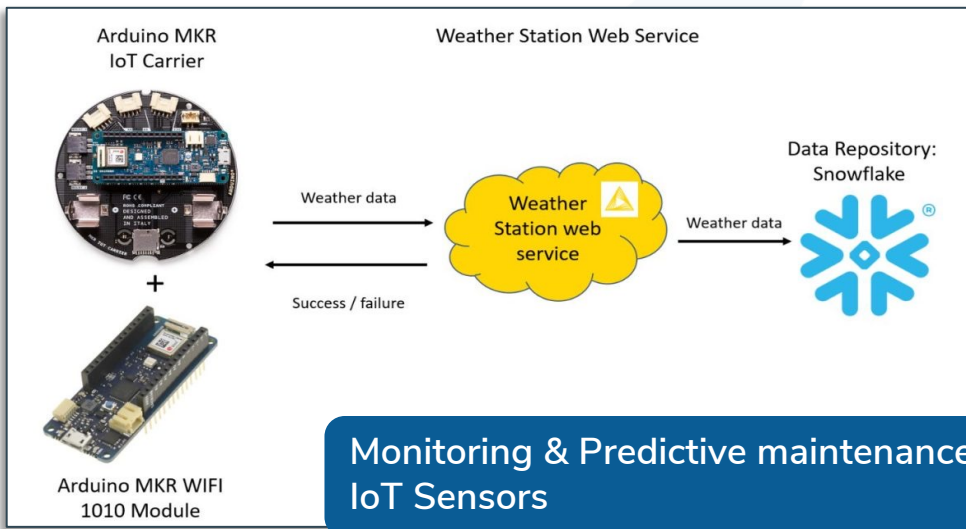
Based on similarity of skills

Clear Sorting Search: \_\_\_\_\_

Job ID	Job Title	Resume ID	Similarity Score (Distance)	Rank
106_Java_Developer	Java Developer	27	0.18	1
106_Java_Developer	Java Developer	53	0.4	2
106_Java_Developer	Java Developer	50	0.47	3
106_Java_Developer	Java Developer	18	0.5	4
106_Java_Developer	Java Developer	26	0.5	5

Previous 1 Next

**Mass data extraction (PDF, Excel formatted reports etc.)**  
See below screen grab from HR Resume extraction and skill matching based on job ad



**Monitoring & Predictive maintenance using IoT Sensors**

- ....plus
- Employee data input (custom forms that update databases as required)
  - Internal Audit
  - Capacity Planning
  - Inventory input and forecasting
  - Upselling/Project Win Likelihood
  - Product Propensity /NBO
  - Campaign Management
  - OEE ...just to name a few!