

POWER BI DASHBOARD FOR DEMTROYS TECHNOLOGIES

PROBLEM DEFINITION

Demtroys Technologies is a Building Energy Management organization.

- Demtroys provides hardware & software solutions to minimize energy costs. For Multi-residential, Commercial, and Institutional Organizations.
- Demtroys uses an Excel workbook to determine Quotes and Financial information.
- Demtroys current solution is manual and time-consuming.

DESIGN PROCESS

- Analyzed the Excel data and understood all processes.
- Gained access to a custom SharePoint folder.
- Created an automated web form to populate the SharePoint folder with client Data
- Linked the SharePoint folder to the Power BI prototype
- Finished the Power BI prototype and began the implementation phase of the project
- Completed 23 pages of Power BI conversions.

WEATHER DATA

The client can add custom parameters like longitude latitude and date range. This will directly extract temperature data into the Power BI model.

Name	Temperature
January-26-17	0.01
January-29-17	0.78
January-30-17	0.73
January-31-17	-2.24
February-01-17	-2.19
February-02-17	-1.5
February-03-17	-5.13
February-04-17	-6.05
February-05-17	-3.72
February-06-17	-2.98
February-07-17	-8.1
February-08-17	0.82
February-09-17	-1.45
February-10-17	-8.52
February-11-17	-10.2
February-12-17	-6.28
February-13-17	-0.87
February-14-17	-4.14
February-15-17	-4.67
February-16-17	-1.81
February-17-17	-2.3
February-18-17	-2.22
February-19-17	0.49
February-20-17	-1.81

OBJECTIVES

- New reporting process that will enable and improve:
- Ease of use
 - Maintainability
 - Client input of data points
 - Improve communication between tables
 - Data Integrity

DETAILS OF DESIGN

Before Power BI
Excel Summary

After Power BI
Summary Page

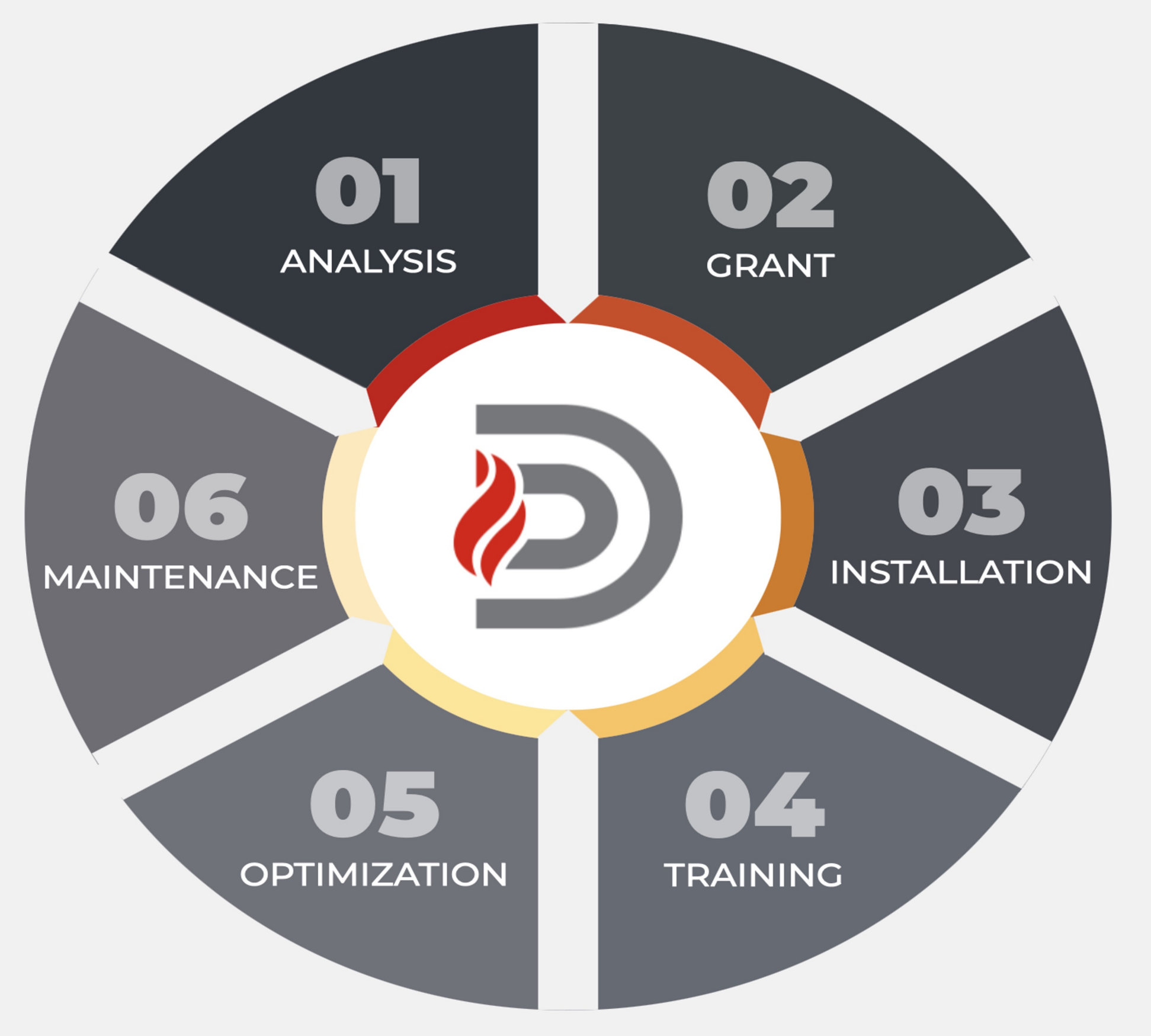
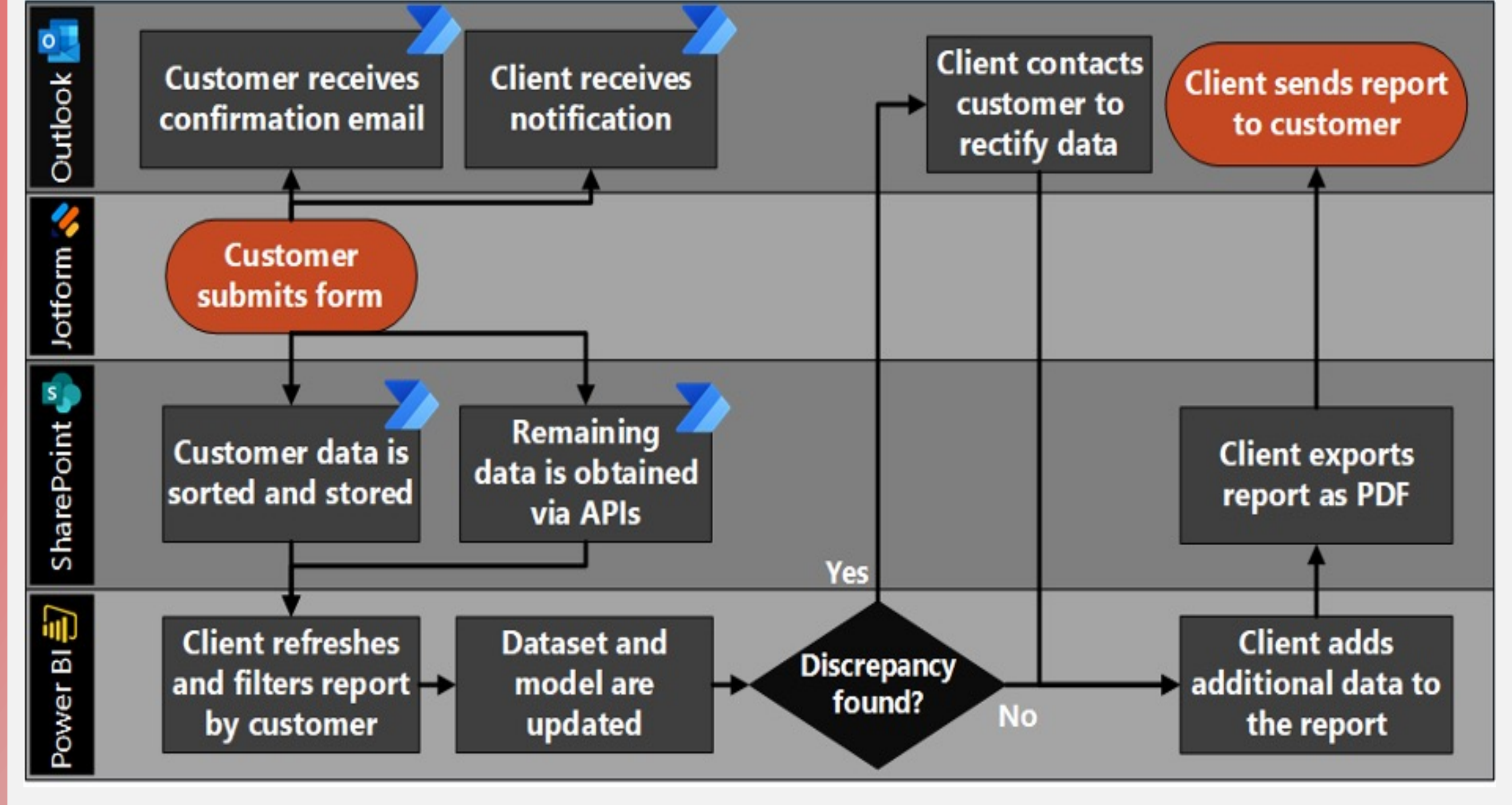
Consumption Page

Consumption Page

Consumption Page

Excel → Power BI → Jot Form → Power Automate

PROCESS MAP



RECOMMENDATION

- The Client must be cautious with SharePoint file management and ensure that the right datasets are updated appropriately.
- The Client should investigate the web-development of a form hosted directly on their website to further reduce operational costs.