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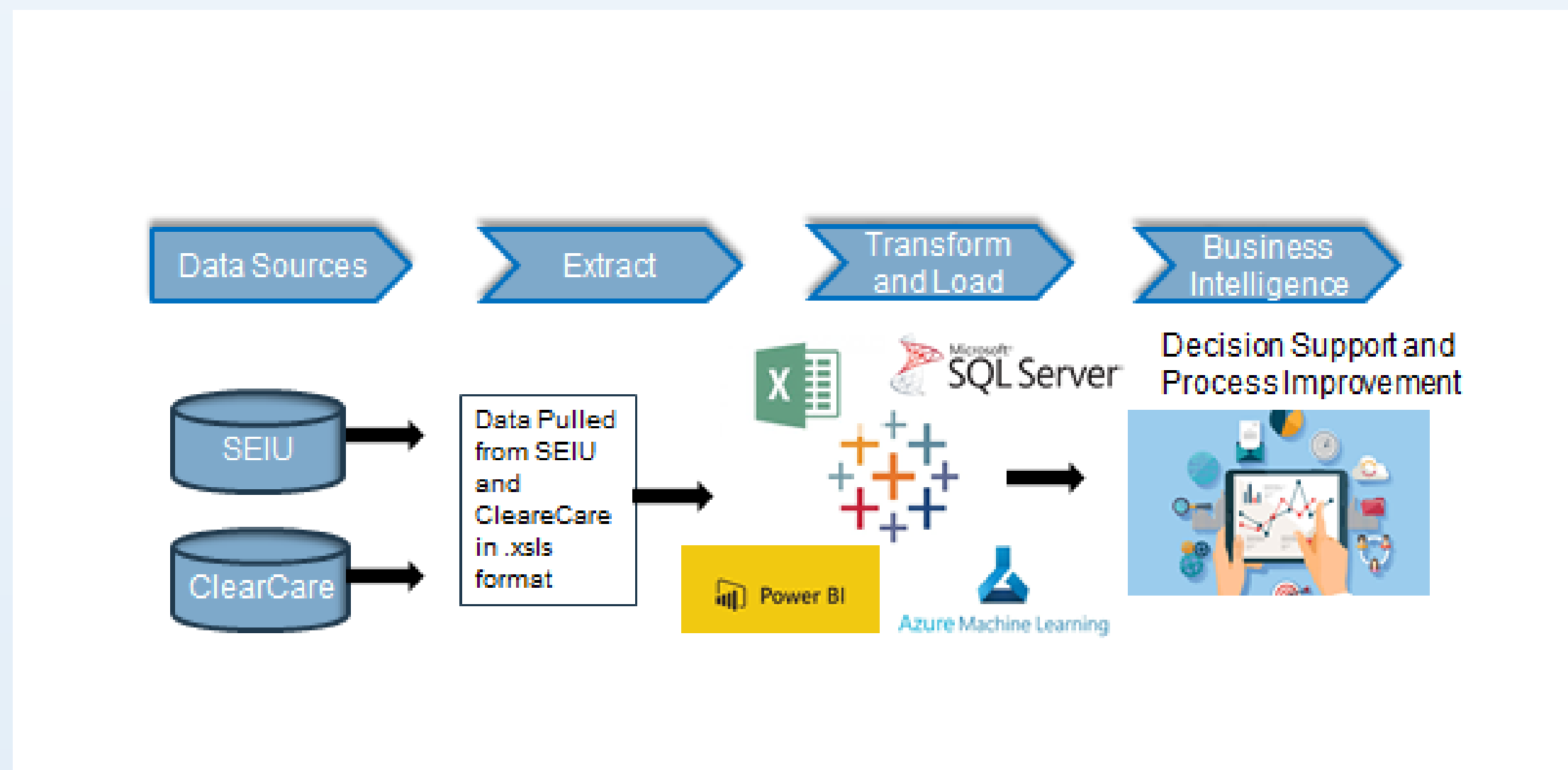
Project Overview:

This project focused on 4 separate training requirements and identifying methods to identify and mitigate caregiver's becoming non-compliant.

Secondary to this task was to provide recommendations to improve the KWA's current business processes and procedures.



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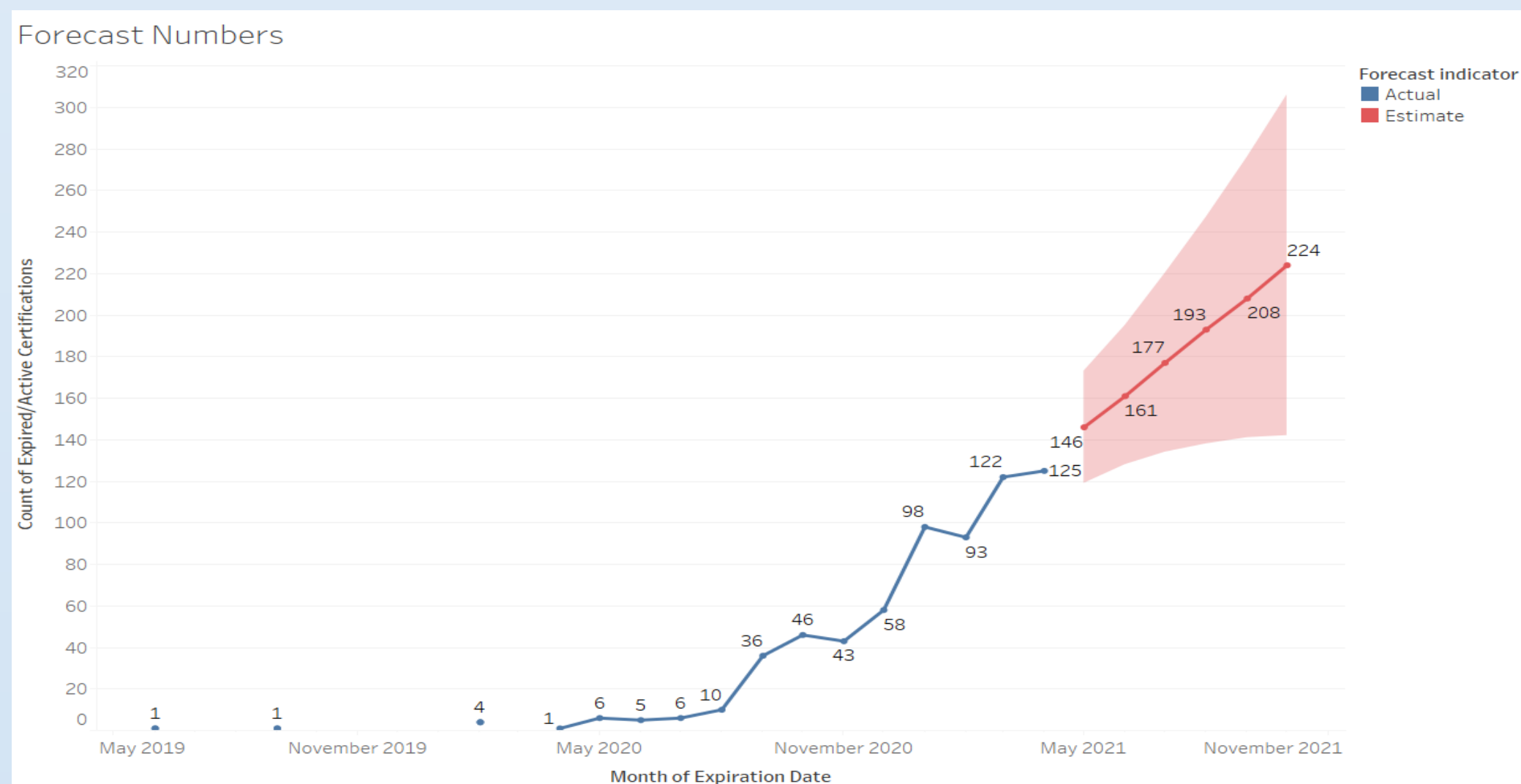


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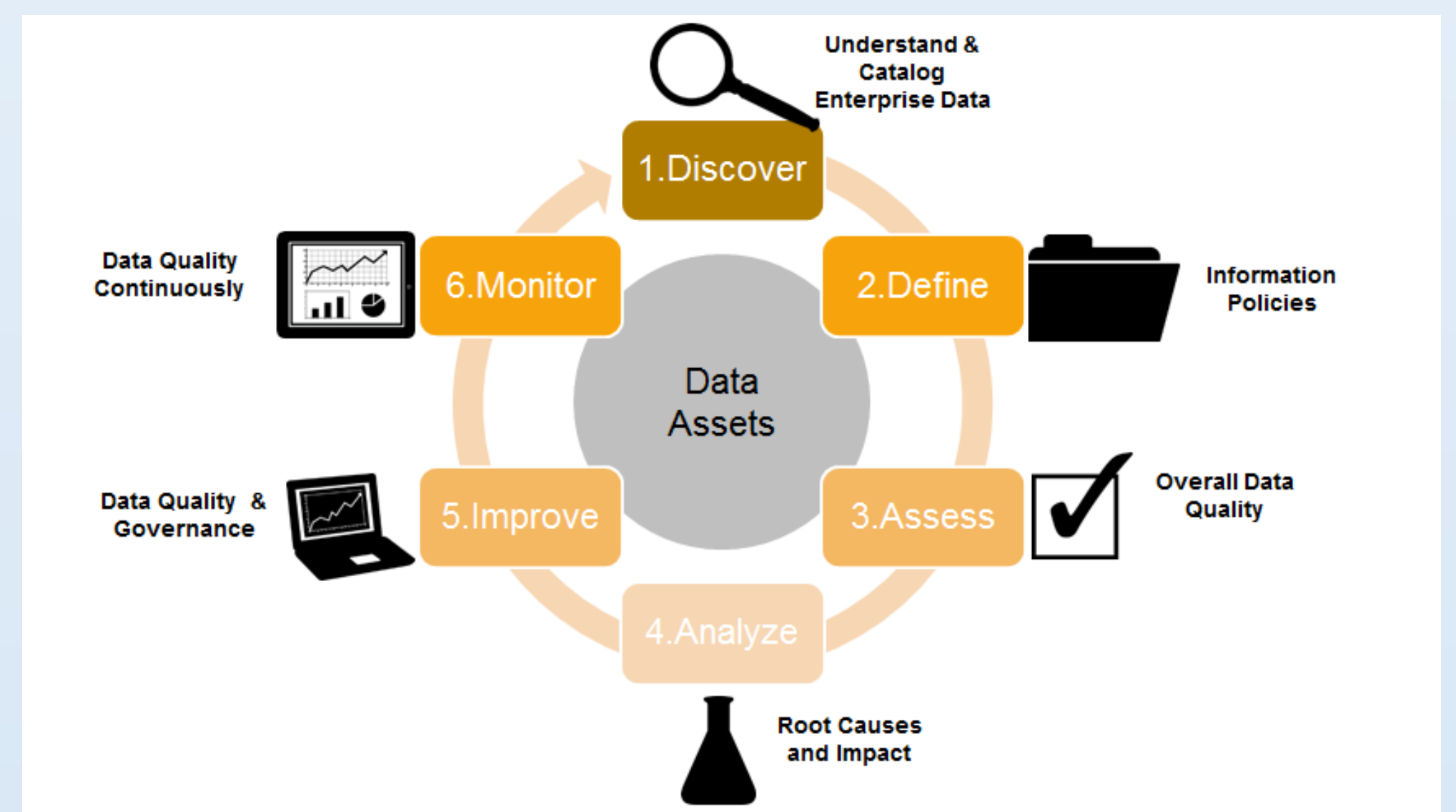
Designing Better Data

- Create and utilize machine tools to quickly process data
- Enrich data quality through data tools and techniques
- Create data standards and policy to reduce data errors



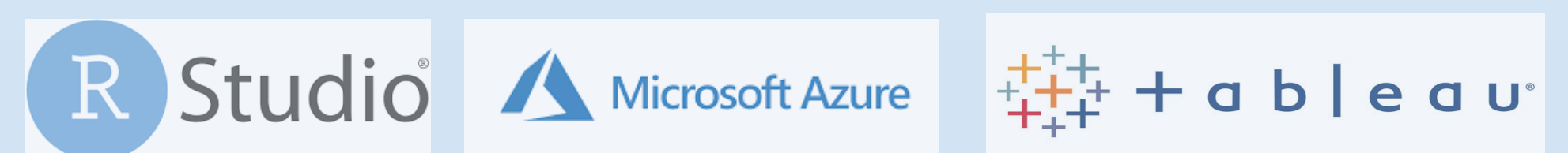
The trend of count of Expired/Active Certifications (actual & forecast) for Expiration Date Month. Color shows details about Forecast indicator. The marks are labeled by count of Expired/Active Certifications (actual & forecast). The data is filtered on Expired/Active Certifications, which keeps Expired.

Model	Accuracy
Two-Class Boosted Decision Tree	.961
Two-Class Decision Forest	.912
Two-Class Decision Jungle	.892
Two-Class Locally Deep Support Vector	.755



Analytic Techniques

- Machine Learning Regression through Azure
- Feature selection and importance through Azure
- K-mean clustering through Tableau
- Forecasting through Exponential Smoothing



Project Deliverables:

- Consolidated Training Dashboard
- Excel data cleaning Macro
- Excel cleaned data and recommendations
- Business Process Recommendations

