Department of the Air Force

Integrity - Service - Excellence

Data Analytics with VAULT Tech Stack



ICEAA May 2023



Disclaimer

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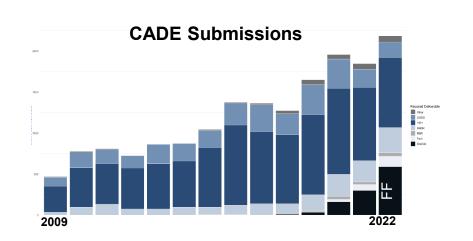
Overview

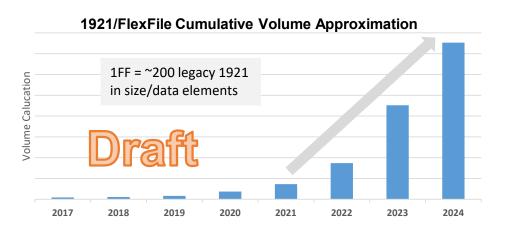
- Largely the cost community operates on desktop-based models and toolsets today- AFCAA is undergoing a digital transformation as part of the SAF/FM Strategic plan
- AFCAA is utilizing state-of-the-art toolsets on VAULT platform in order to build data pipelines as well as analytic products such as models/dashboards/machine learning/ etc.



Evolution of Cost Analysts' Data

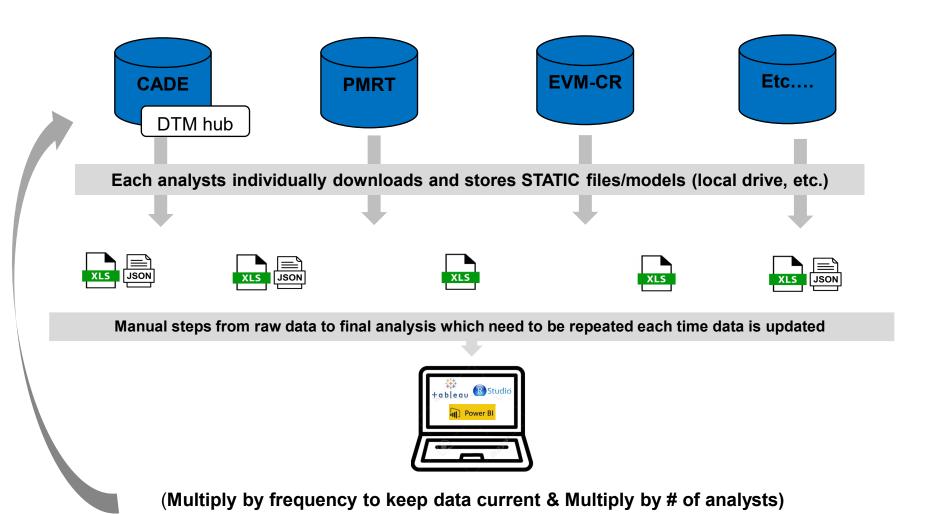
- Cost community has significantly more data now than ever before projected to continue to grow
 - New reporting captures technical/ software data as well as cost
 - FlexFiles are over ~200X size of legacy cost report
 - Statutory requirement change
 - Legacy ACAT I only
 - Current >100M programs
 - Size of additional datasets (EVM, KDB, AFTOC, etc. also growing)
- Traditional process/toolsets becoming challenging & increasingly not viable

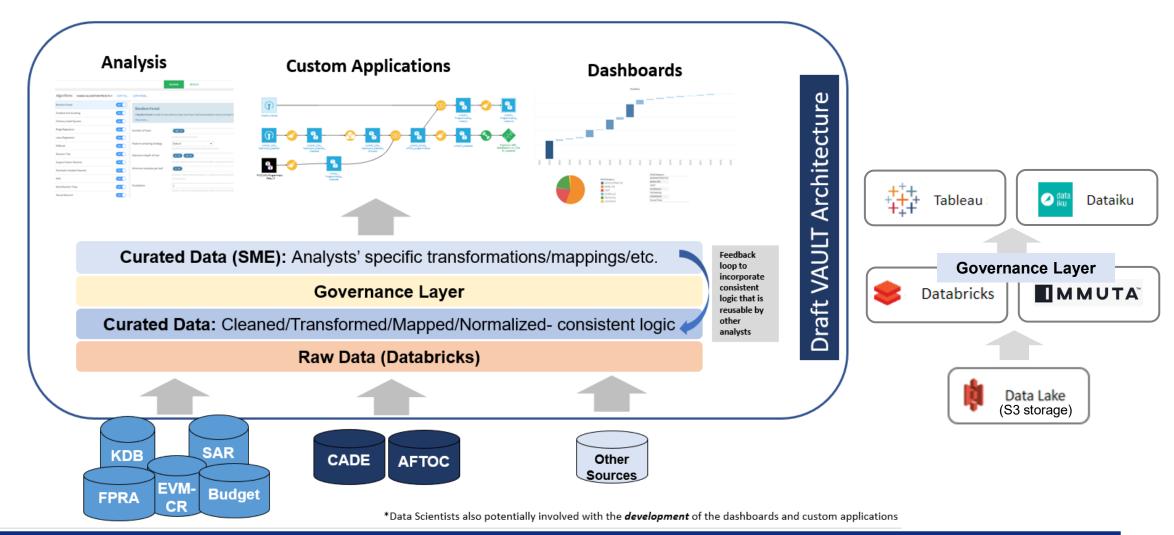




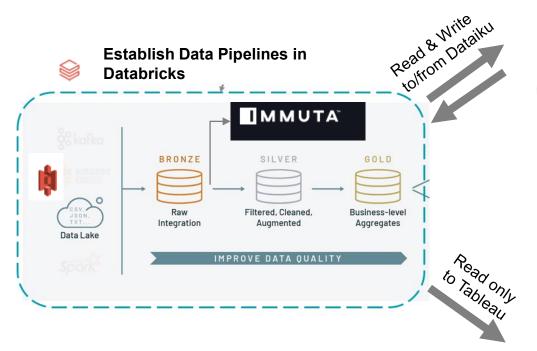


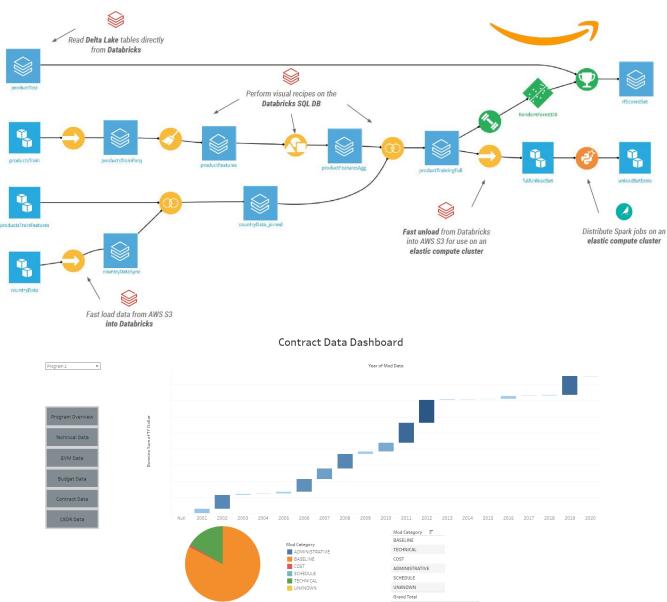
Legacy





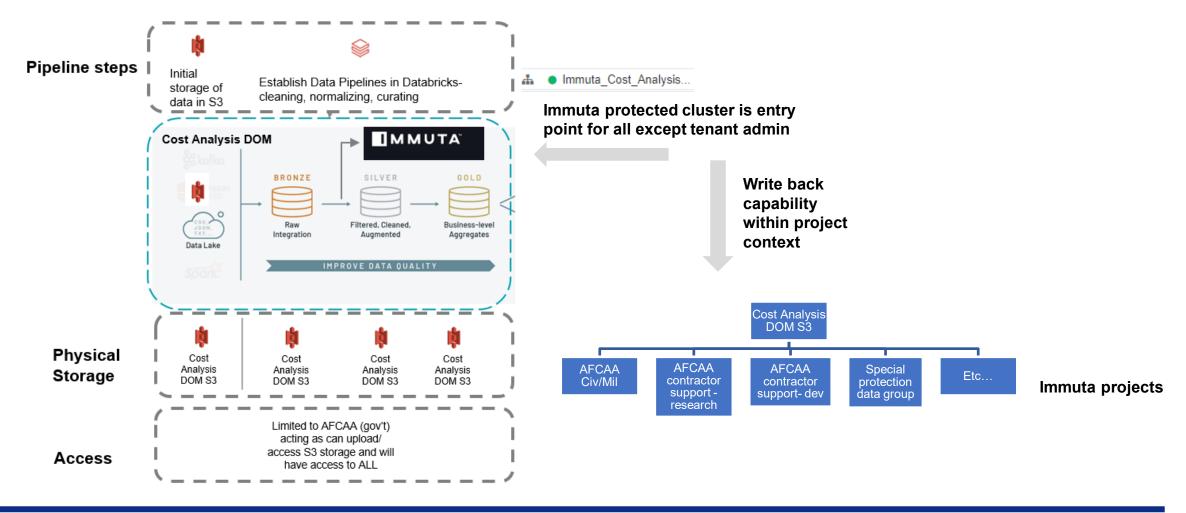
Databricks-Dataiku-Tableau Tech stack





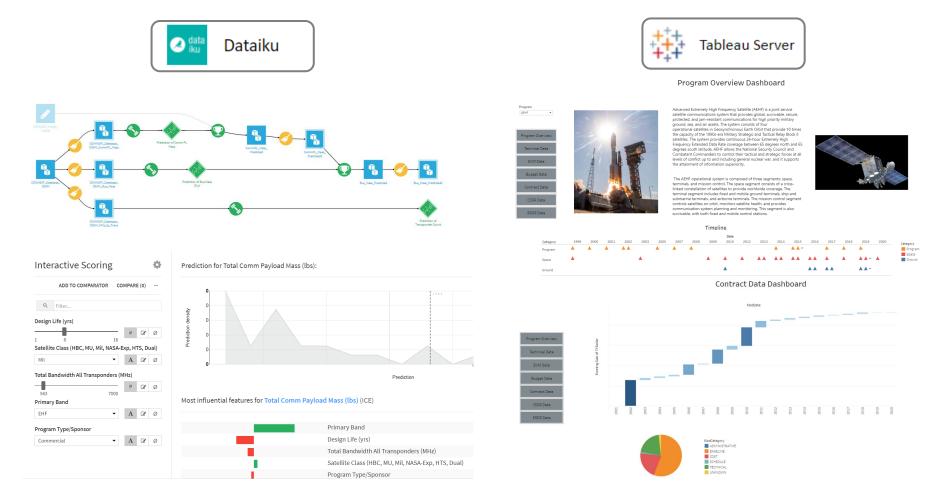


Architecture with Immuta





Live Demo of Data Science in VAULT









Practical Steps

- What can you do to embrace data science processes, toolsets, etc. as a part of your day-to-day cost analysis?
 - What can you do as an ORGANIZATION?
 - What can you do as a COMPANY?
 - What can you do as an INDIVIDUAL?