Appraiser Workload Dashboard

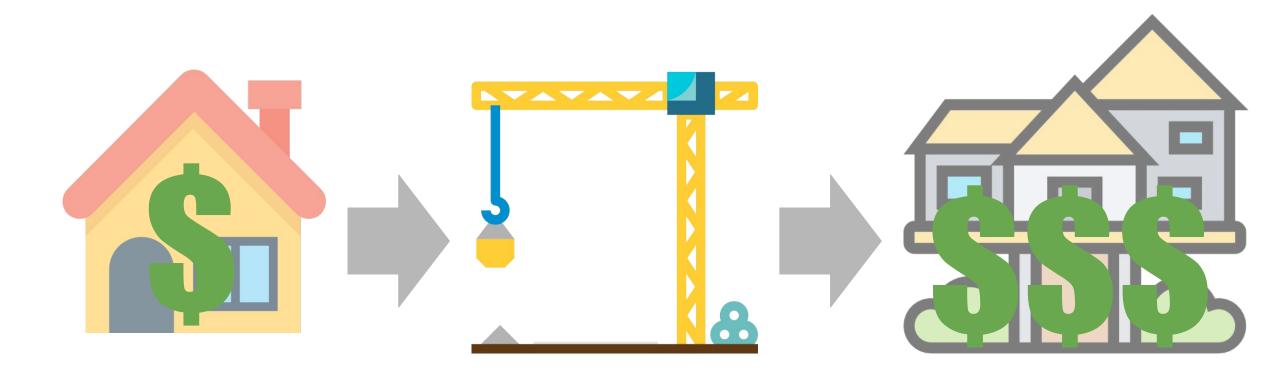
Streamlining distribution of work with user-centered design and quality control tools



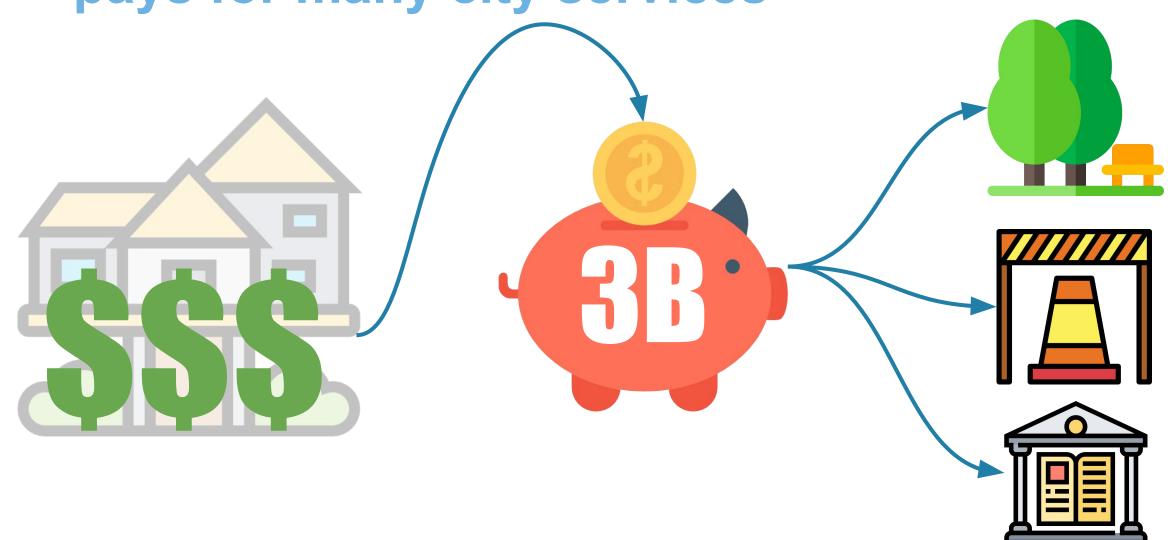
Michelle Wong, Operations Analyst & Benjamin Lau, Standards Analyst



Changes to a property from construction can lead to changes in the property's value

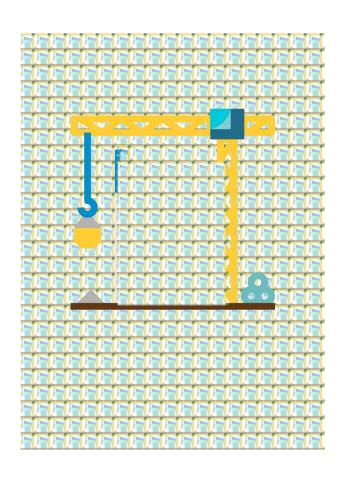


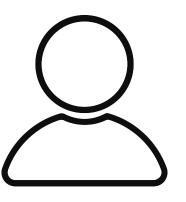
Accurate taxing of a property's value is critical to funding the general fund which pays for many city services



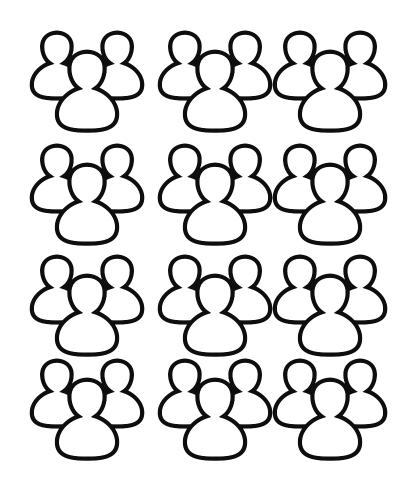
The problem

These 20k projects need to be prioritized and assigned to the 60 ASR Appraisers so a fair value can be assessed





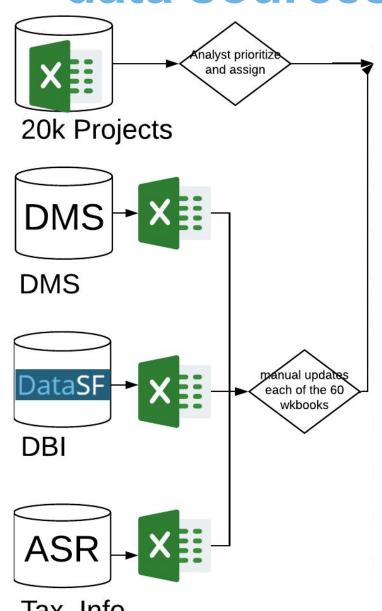
This is my job!



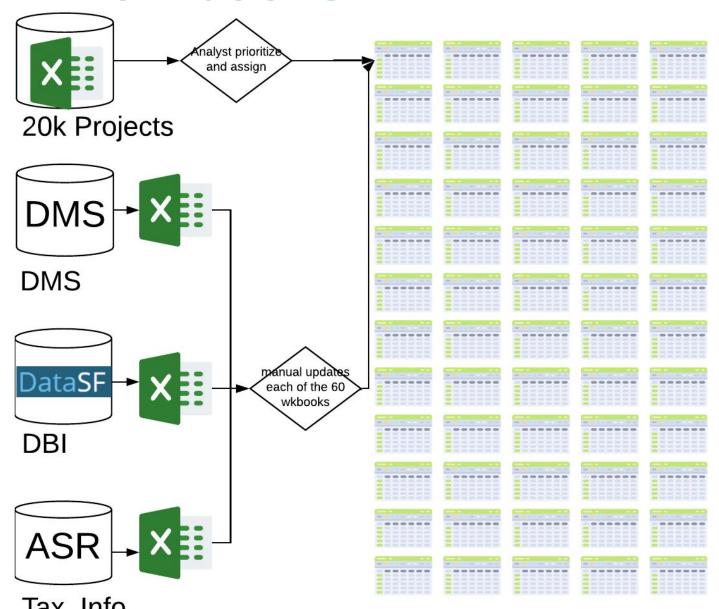
If that sounds like a lot of work, just wait...

It was not a simple process...

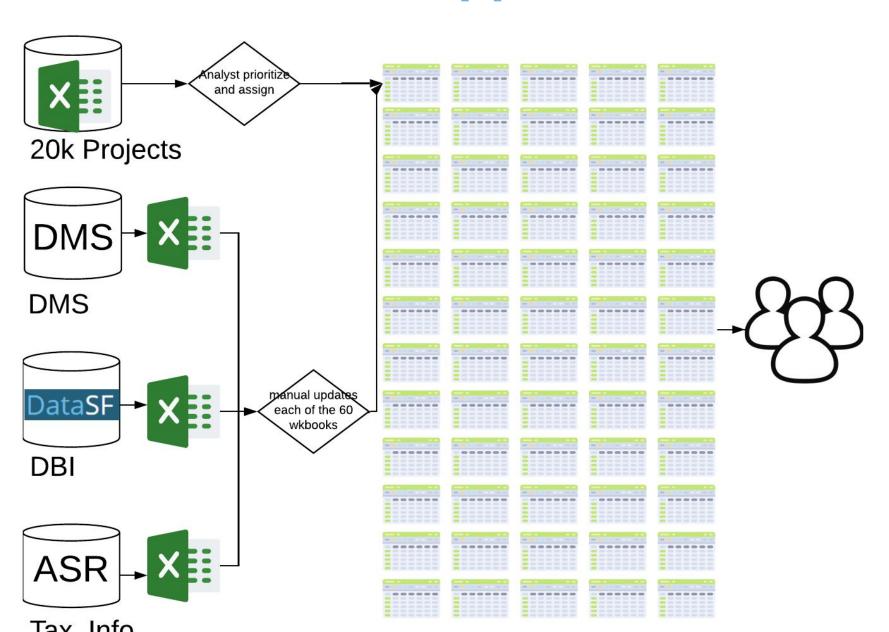
Project data augmented by multiple other data sources...



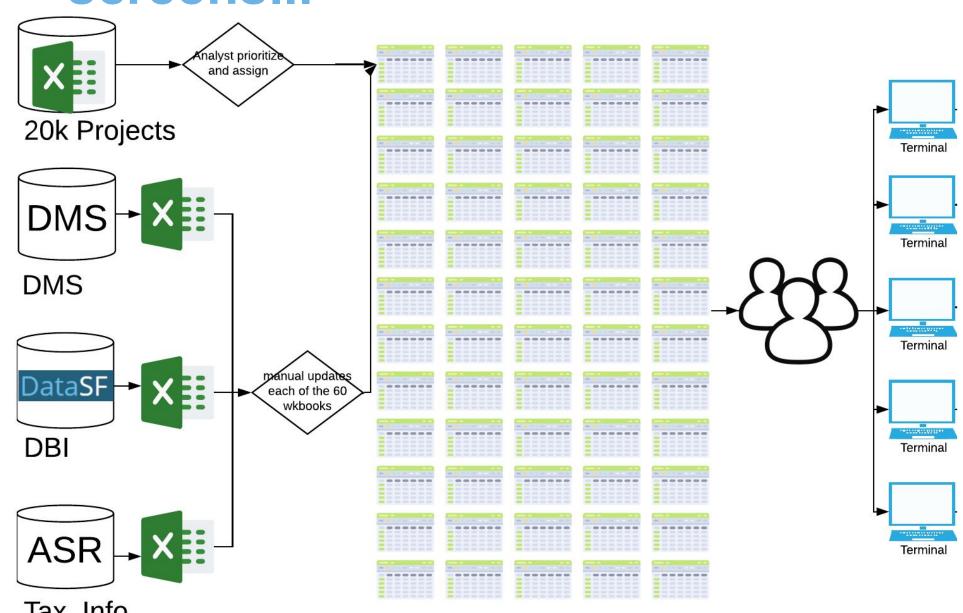
manually pulled into 60 separate excel workbooks...



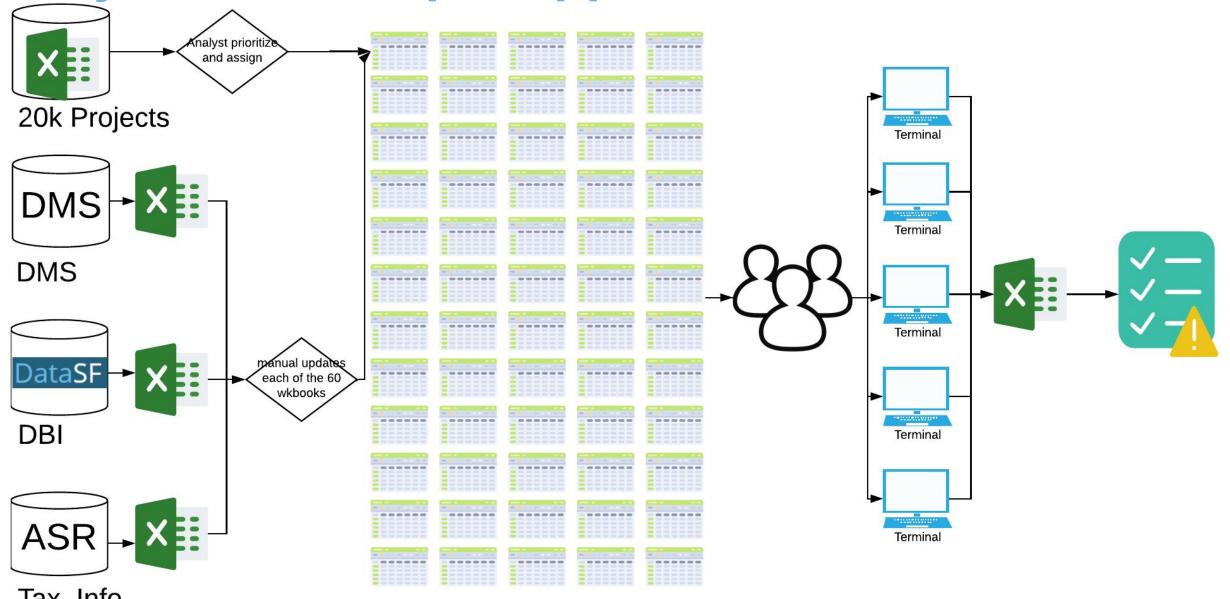
distributed to appraisers...



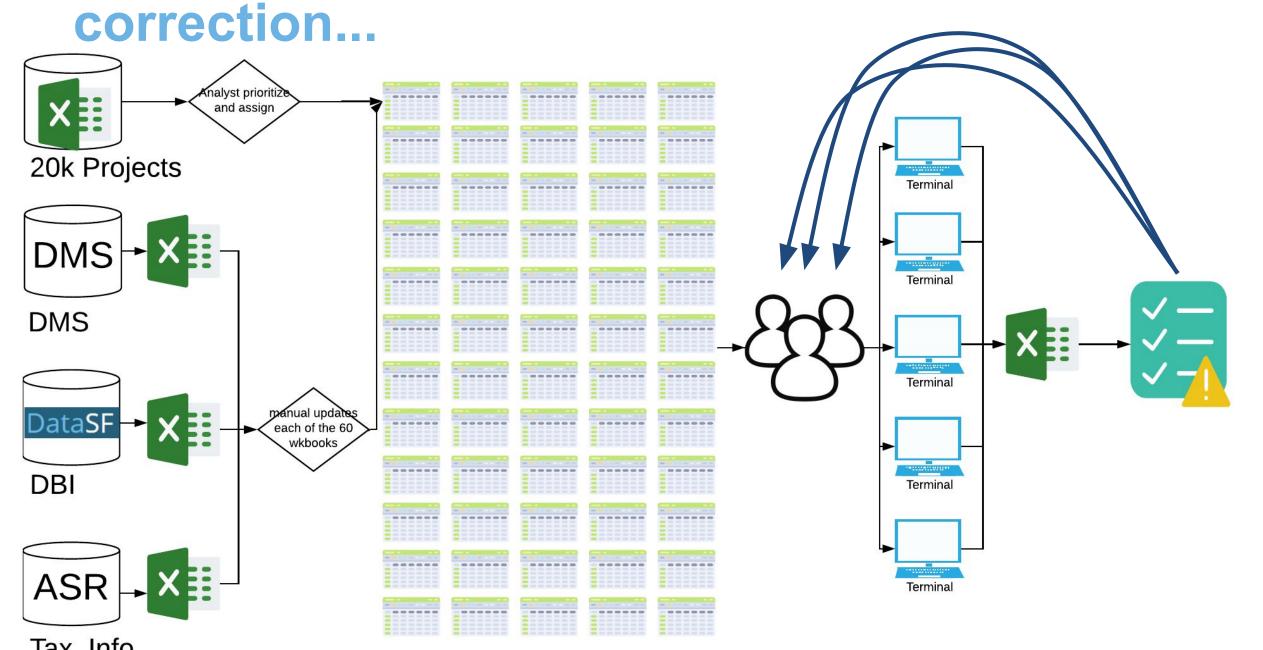
who entered info into ASR-400 terminal screens...



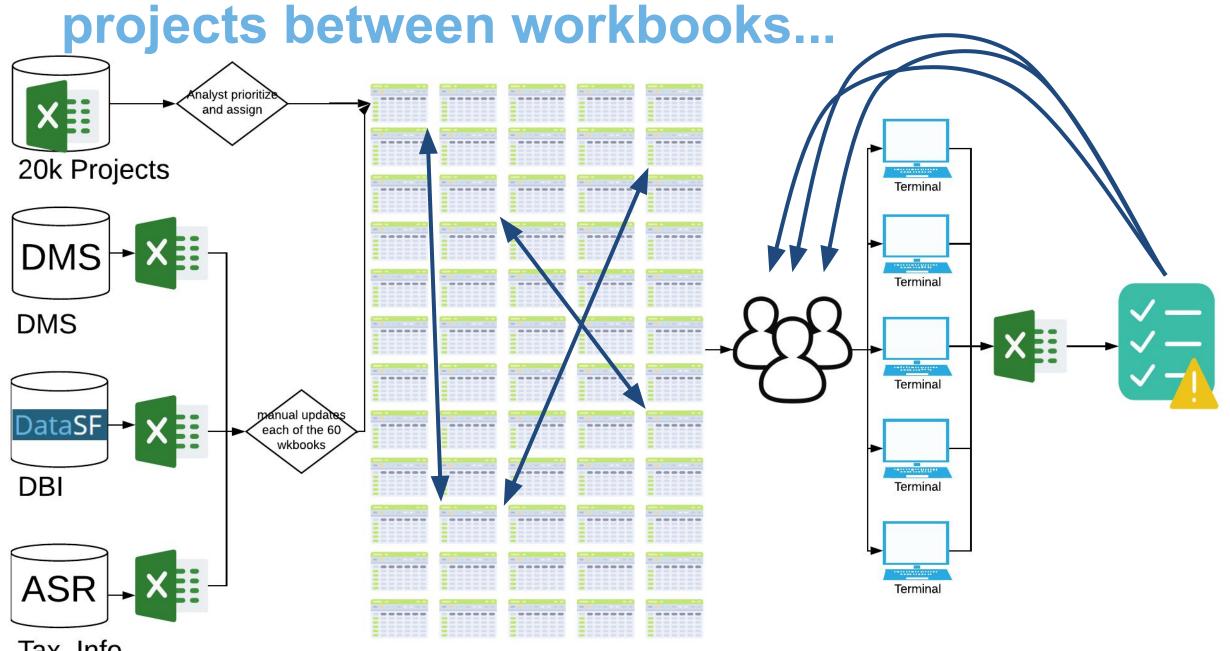
results exported to excel for quality checks by the 8 Principal Appraisers...



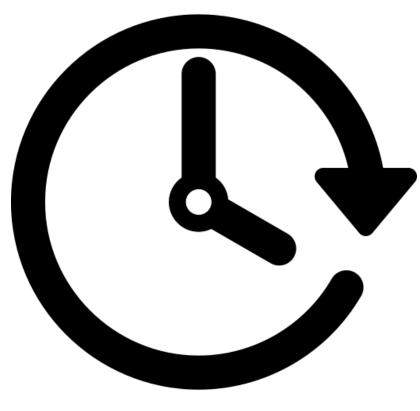
any entry errors sent back to appraisers for



and constant manual shuttling around of



Two major problems



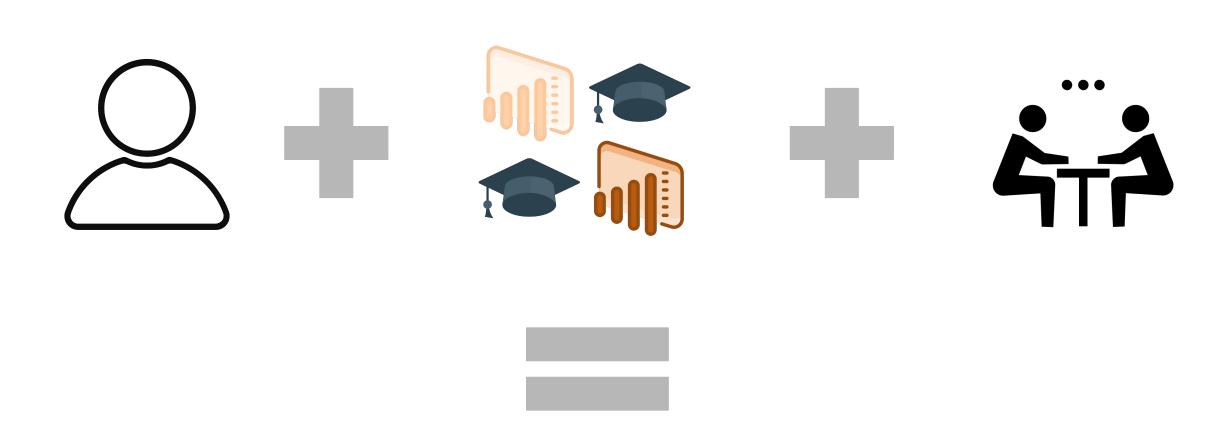
Time consuming



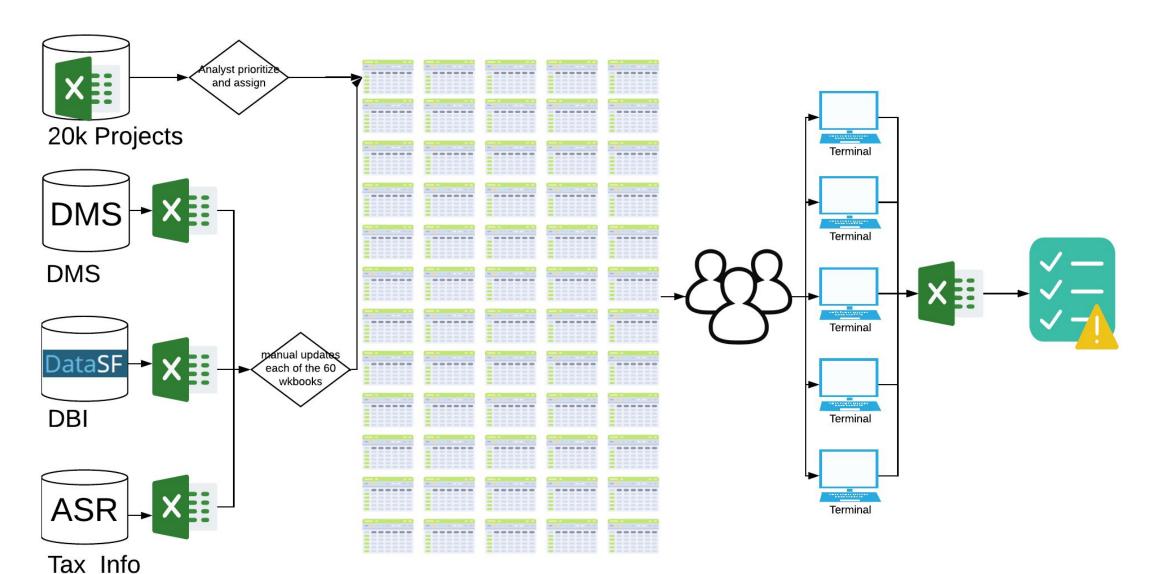
Data quality errors

What was done

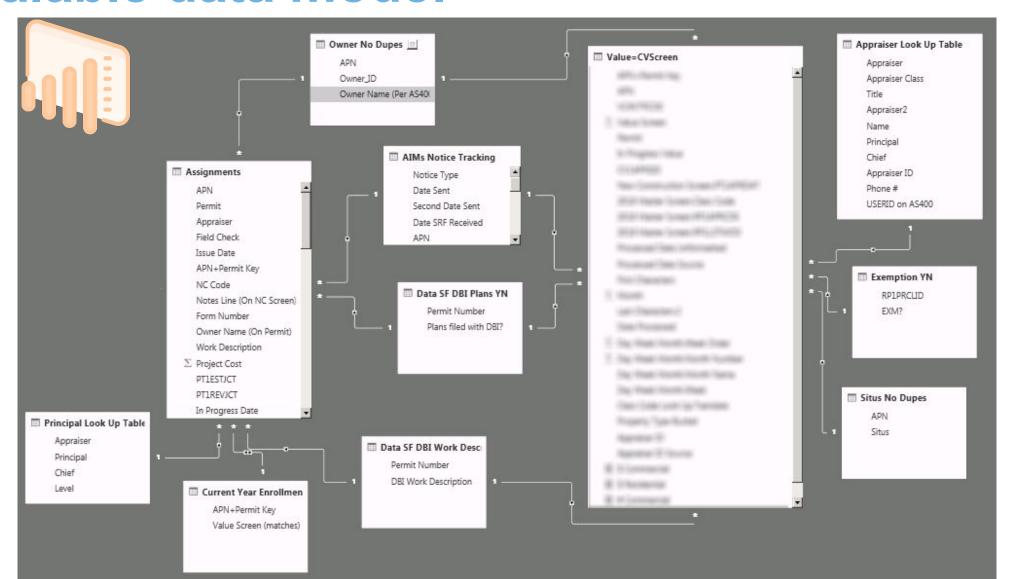
Learned how PowerBI can not only automate data wrangling, but also handle complex data models



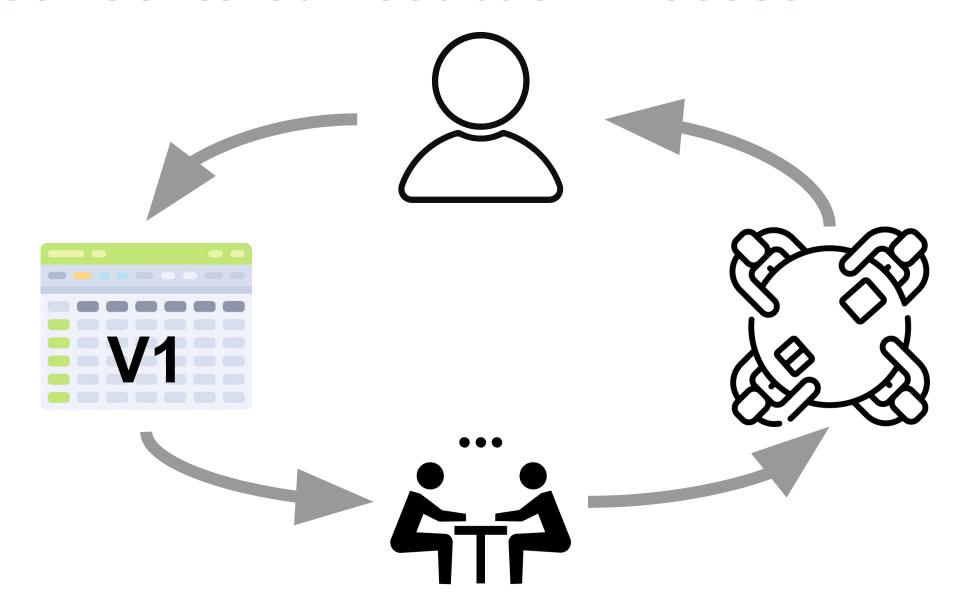
Three weeks later...A highly flexible and scalable data model



Three weeks later...A highly flexible and scalable data model



User Centered Feedback Process



Didn't stop at automation



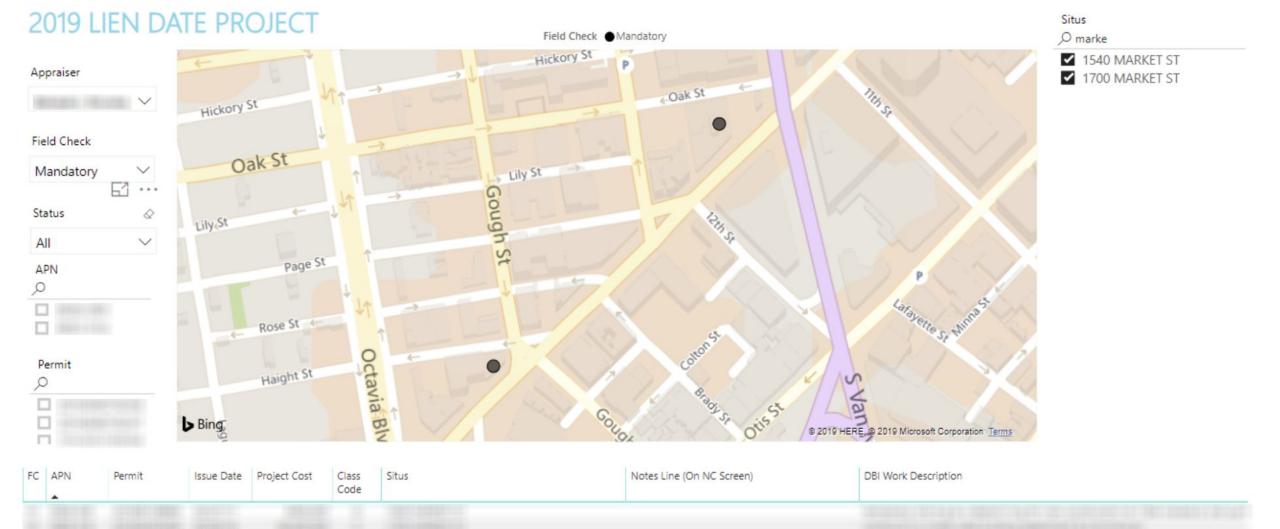
Analyst Led Innovation

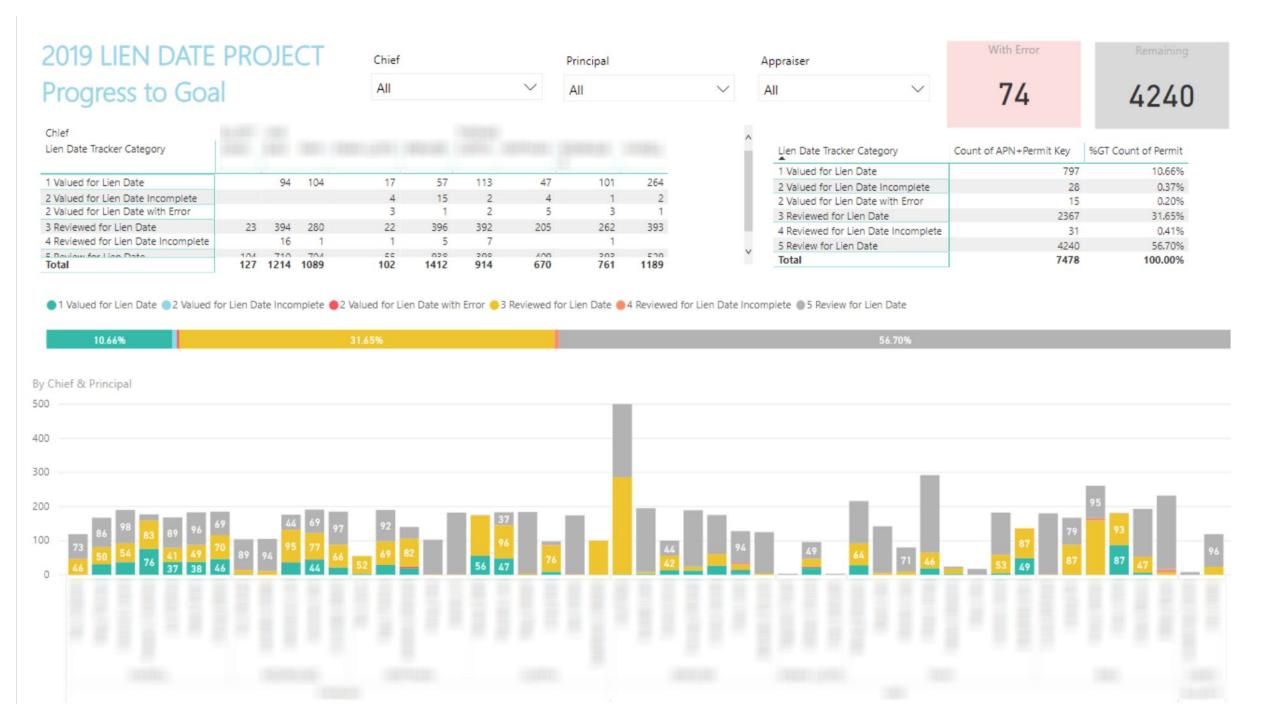


Appraiser Led Innovation

DEMO







PowerBI Phone App



The results

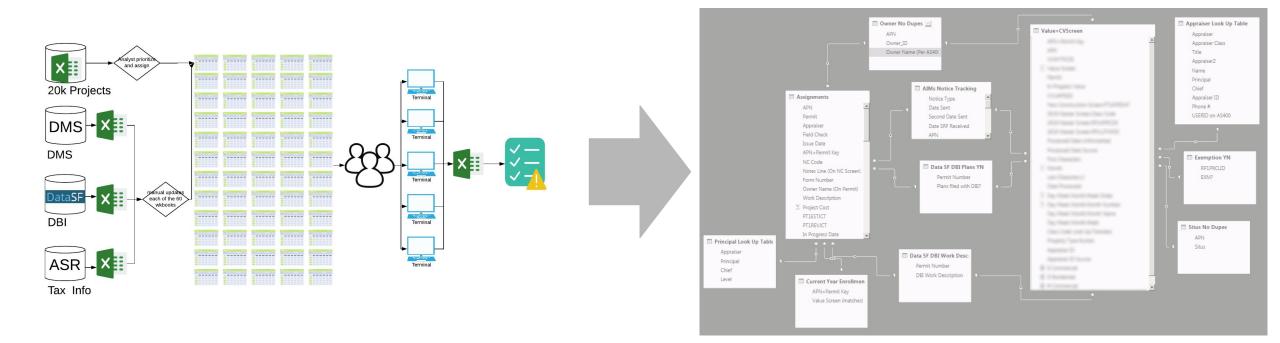
No longer playing the unfun role of data quality drill sergeant



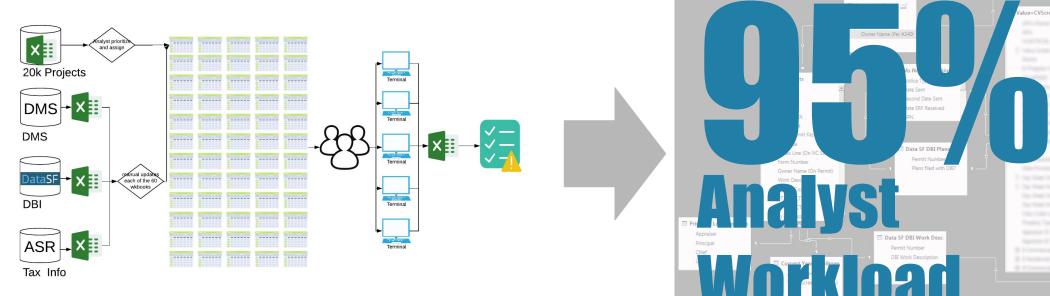


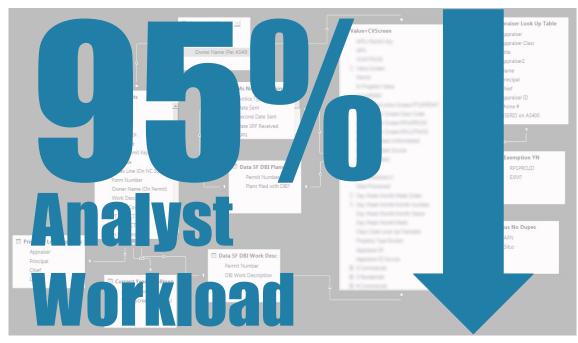
Permit Status Code	NC Code	In Progress Date	Date of Completion	Event Date (CV)	% Complete	Cost Valuation Screen
P	ALT	20190101	0	20190101	50 %	\$50,000
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New C	Ionstru	ction Scree	en	Cost Valuation Screen		n

Overall the automation in PowerBl reduced my overall workload by...

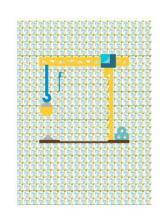


Overall the automation in PowerBl reduced my overall workload by 95%!

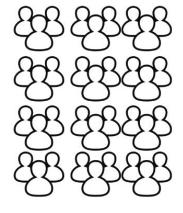




Now managing entire project!



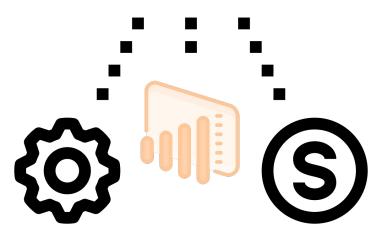






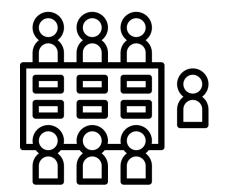


This is my job!



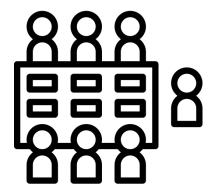
What's next

Repeating process with other departments in ASR



Transactions Unit Assignments





Business PersonalProperty Processing



Using Power BI for further Quality Control and Data Cleanup



- Historical Screens
- Property Characteristics

Mini PowerBI Learning Community

- All analyst attended DataSF's PowerBI Training
- Meet regularly to share tips and tricks
- How ASR able to roll out so many tools so quickly

Thank you