More Efficient Workflows: Converting from Tableau to PowerBl



CITY & COUNTY OF SAN FRANCISCO

Office of the Controller

City Performance Unit

Alice Kassinger

Performance Analyst

THIS WAS A HUGE <u>TEAM</u> EFFORT!









Emily

Luke

Alice



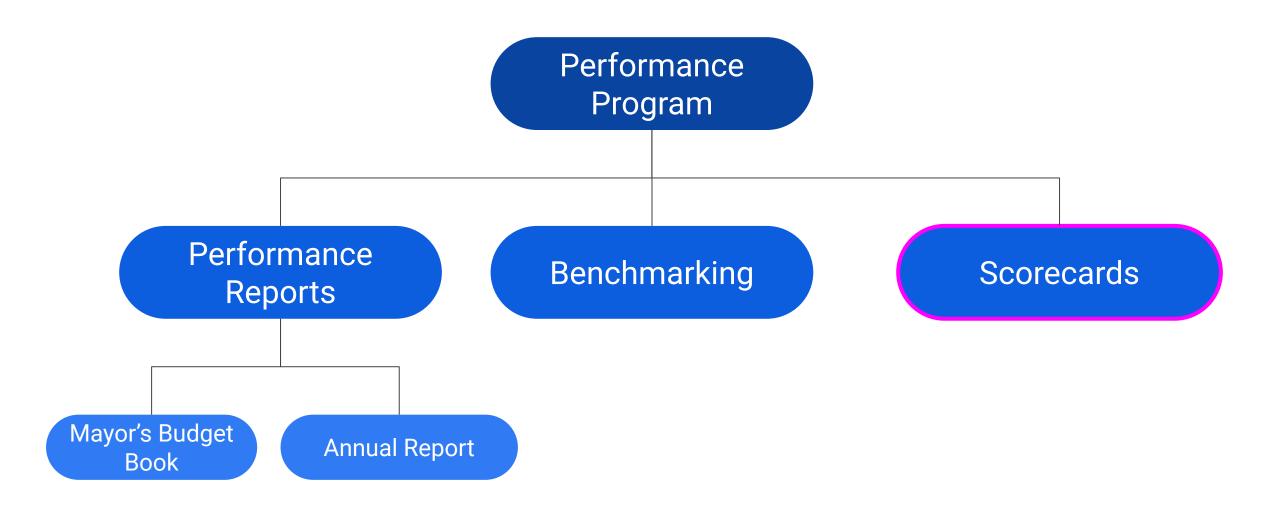




Wendy



Queen Visionary Natasha Mihal



Where do I have to go I find answers?

Public Safety



In 2015, CON created the Scorecards website: tableau charts and narrative on 8 issue areas











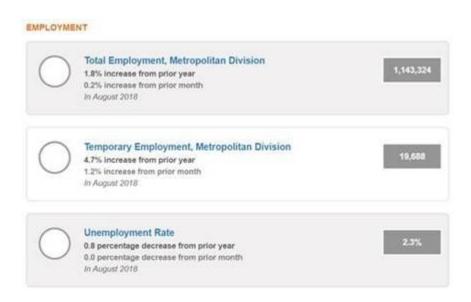






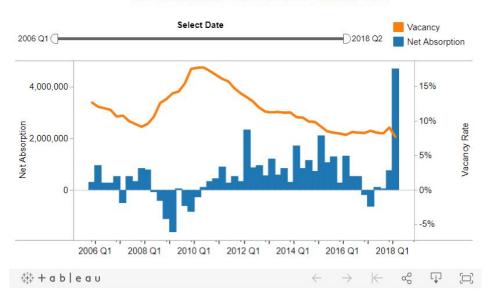
Key metrics, accessible visualizations, and helpful narratives

Scorecard Summaries



Metric Visualizations

OFFICE VACANCY RATE AND NET ABSORPTION



THE PROBLEM

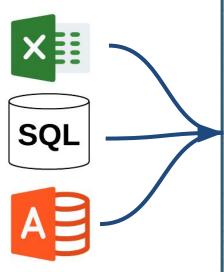


MANUAL data wrangling & MANUAL updates





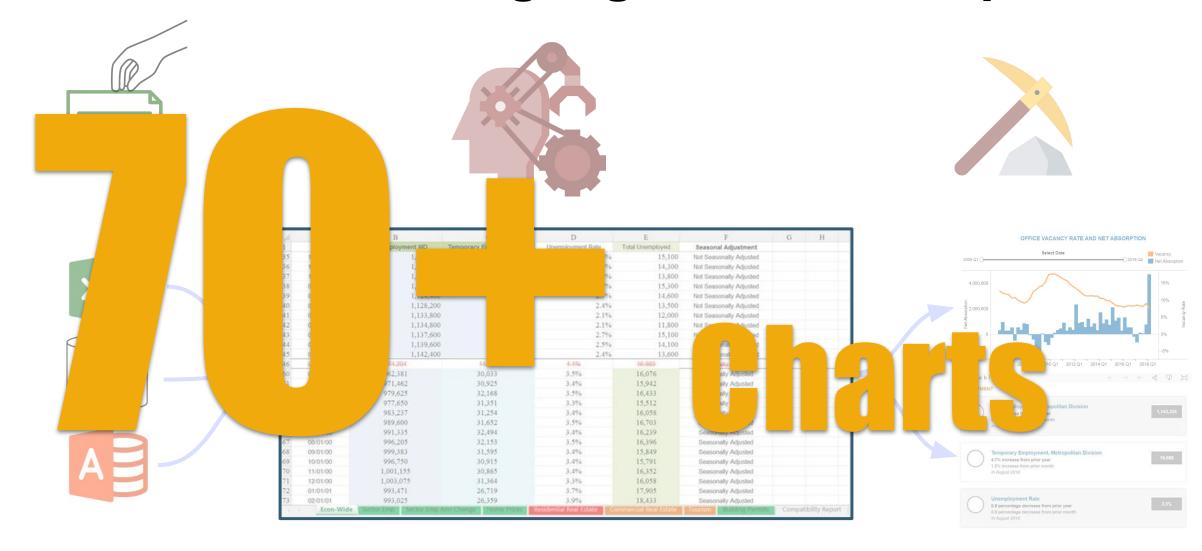




d _	A	В	C	D	E	F	G	H
	Date	Total Employment MD	Temporary Employment MD	Unemployment Rate	Total Unemployed	Seasonal Adjustment		
5	10/01/17	1,128,500	19,400	2.6%	15,100	Not Seasonally Adjusted		
6	11/01/17	1,136,800	19,600	2.5%	14,300	Not Seasonally Adjusted		
7	12/01/17	1,139,800	19,600	2,4%	13,800	Not Seasonally Adjusted		
3	01/01/18	1,120,100	18,400	2.7%	15,300	Not Seasonally Adjusted		
)	02/01/18	1,124,400	18,500	2.5%	14,600	Not Seasonally Adjusted		
ì	03/01/18	1,128,200	18,600	2.4%	13,500	Not Seasonally Adjusted		
1	04/01/18	1,133,800	18,800	2.1%	12,000	Not Seasonally Adjusted		
	05/01/18	1,134,800	19,200	2.1%	11,800	Not Seasonally Adjusted		
	06/01/18	1,137,600	19,100	2.7%	15,100	Not Seasonally Adjusted		
	07/01/18	1,139,600	19,400	2.5%	14,100	Not Seasonally Adjusted		
	08/01/18	1,142,400	19,900	2,4%	13,600	Not Seasonally Adjusted		
	07/01/90	874,204	14,531	4.1%	16,983	Seasonally Adjusted		
	01/01/00	962,381	30,033	3,5%	16,076	Seasonally Adjusted		
	02/01/00	971,462	30,925	3,4%	15,942	Seasonally Adjusted		
1	03/01/00	979,625	32,168	3.5%	16,433	Seasonally Adjusted		
	04/01/00	977,650	31,351	3.3%	15,512	Seasonally Adjusted		
	05/01/00	983,237	31,254	3.4%	16,058	Seasonally Adjusted		
	06/01/00	989,600	31,652	3.5%	16,703	Seasonally Adjusted		
	07/01/00	991,335	32,494	3.4%	16,239	Seasonally Adjusted		
1	08/01/00	996,205	32,153	3.5%	16,396	Seasonally Adjusted		
	09/01/00	999,383	31,595	3.4%	15,849	Seasonally Adjusted		
	10/01/00	996,750	30,915	3,4%	15,791	Seasonally Adjusted		
	11/01/00	1,001,155	30,865	3.4%	16,352	Seasonally Adjusted		
	12/01/00	1,003,075	31,364	3.3%	16,058	Seasonally Adjusted		
	01/01/01	993,471	26,719	3,7%	17,905	Seasonally Adjusted		
	02/01/01	993,025	26,359	3.9%	18,433	Seasonally Adjusted		

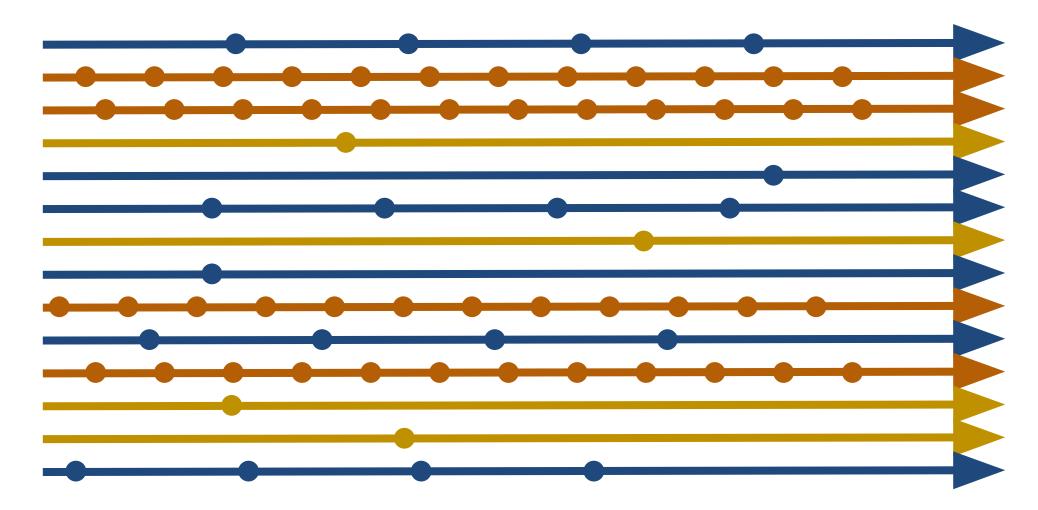


MANUAL data wrangling & MANUAL updates



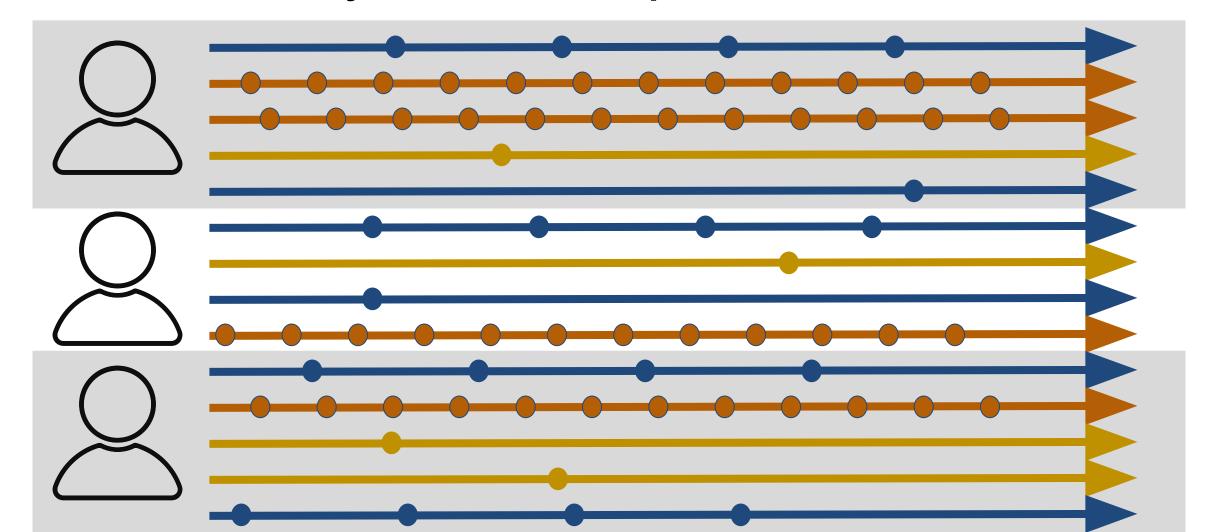
SCATTERED TIMELINES:

Monthly, quarterly, biennial, and annual updates



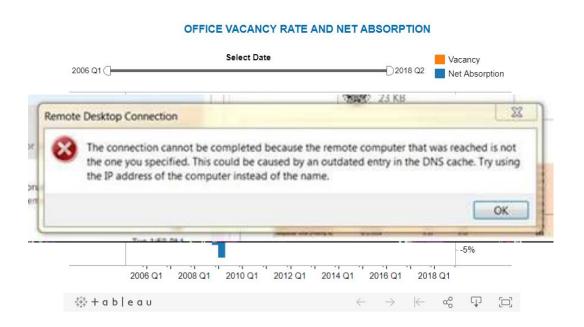
KNOWLEDGE SILOS:

Each analyst memorized "quirks" of their metrics

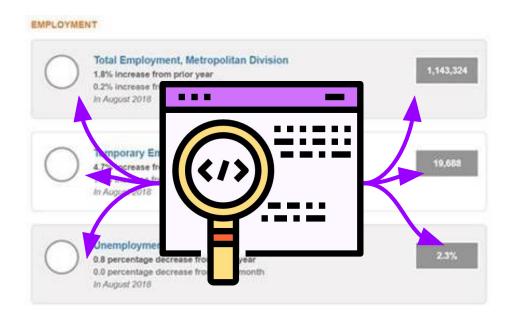


TECHNICAL LIMITATIONS:

Tableau's cost had everyone sharing a license



HTML had to be manually updated separately from Tableau

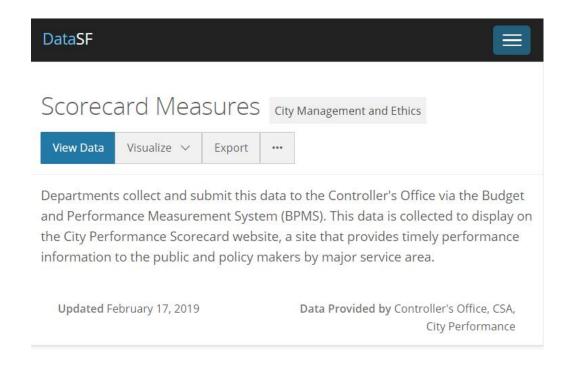




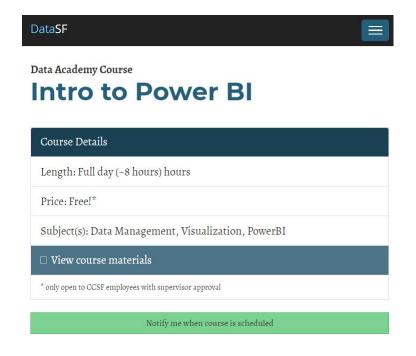


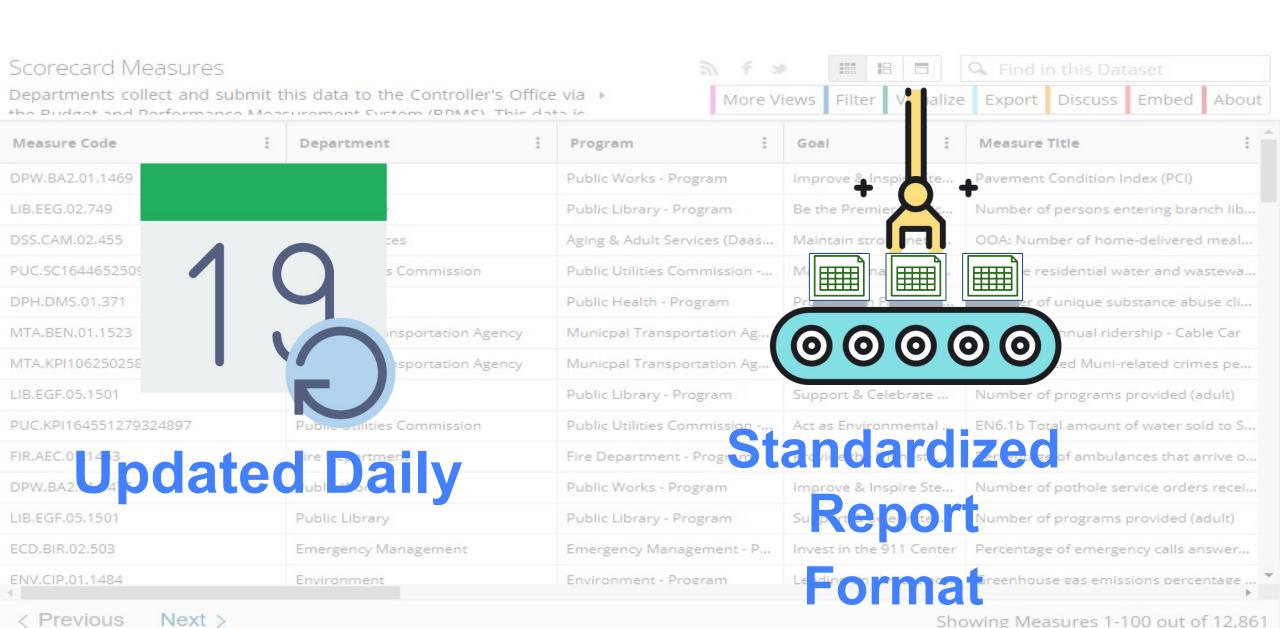
THE SOLUTION

Open Data



PowerBI

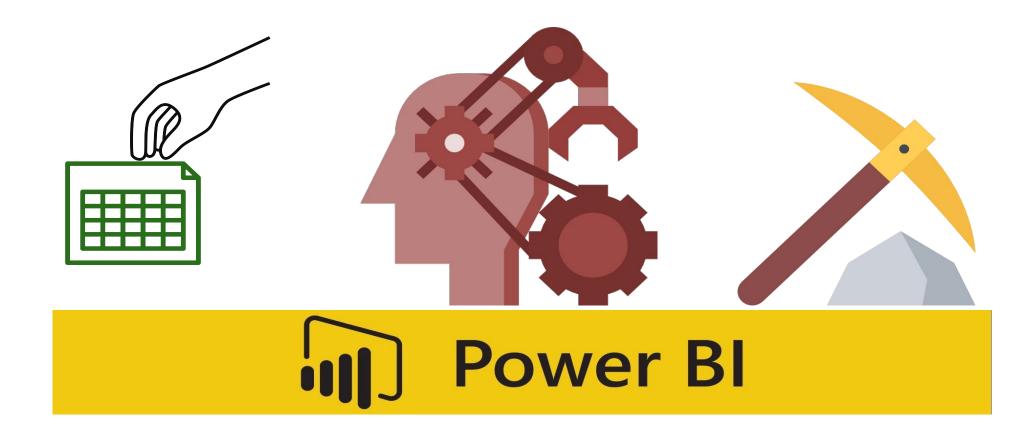




Used PowerBI to Automate Data Wrangling

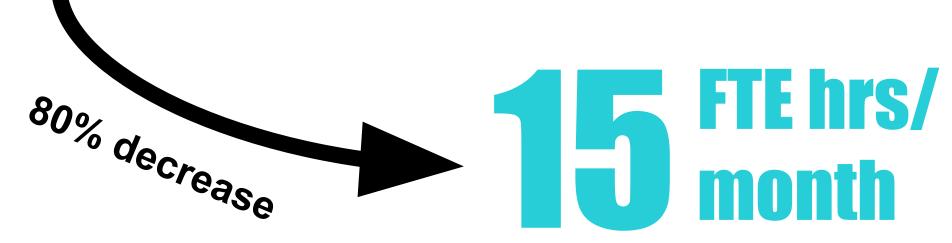


Data wrangling & Viz pipeline in ONE TOOL

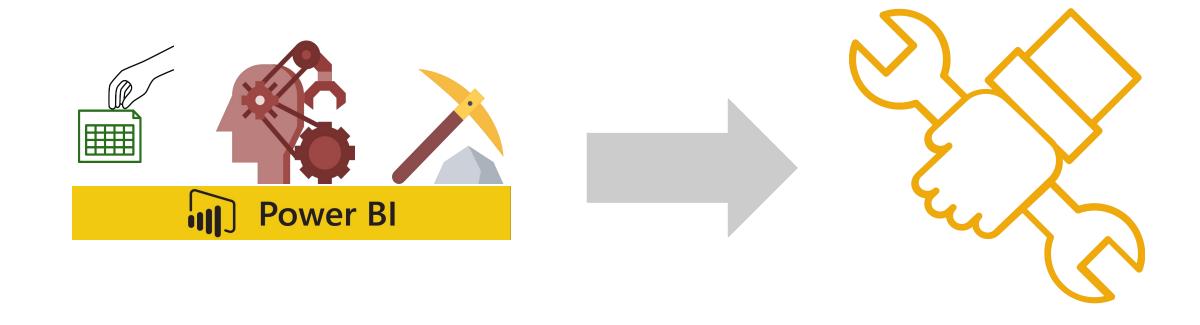


RESULTS

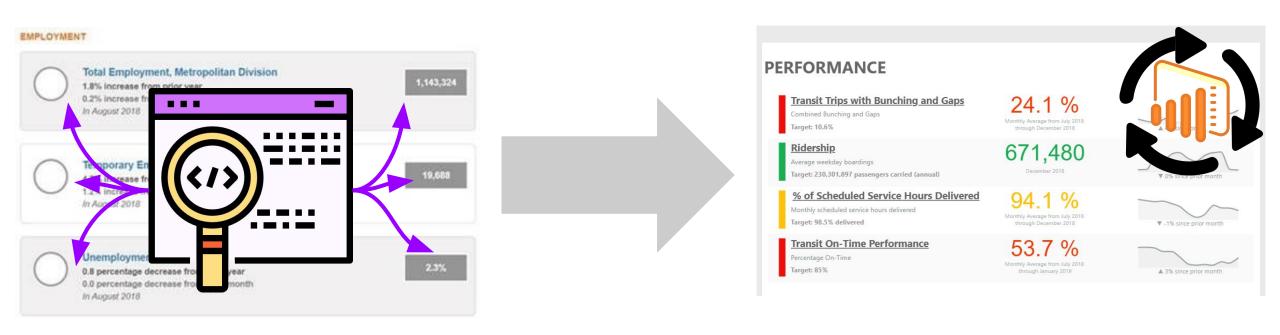
The First of the F



All teammates can problem solve together!

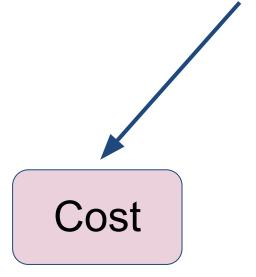


End-to-End Automation!



NOTES

PowerBI is now our default dashboarding tool when working with external partners



Automate data wrangling to make easy ownership transitions

Integration with O365

Upfront learning investment

