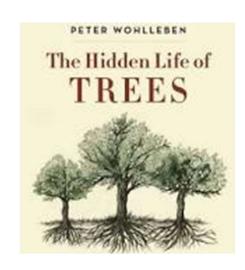
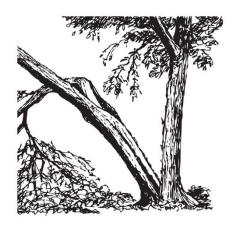
Building Analytics Capabilities

P. Walker

Goal: Deep root system, fostering sustainable growth

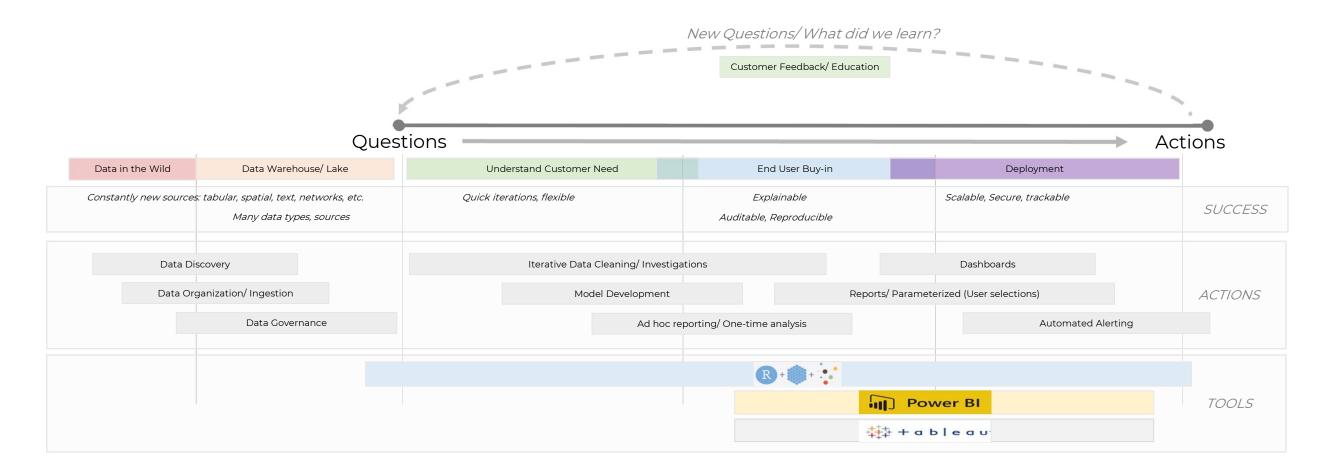
- Outcomes: To provide actionable insights to leaders.
- <u>Process:</u> To foster nimble and sustainable growth on pace with the need.
 - New root systems lead to stable analytics throughout the organization which feed each other





Challenge: Remaining robust with change

- Answer leadership questions quickly with confidence while...
 - Disparate and often fractional data: Many different reports already exist
- Avoiding..
 - Vendor lock-in: Leads to analyst lock-in



To be able to partner with leaders, providing analytic solutions to address complex and growing needs, we need to:

- 1. Support a data foundation which continually grows and matures with the organization by gathering, centralizing and governing disparate and varied sources.
- 2. Utilize an analytics toolkit which easily and quickly can (1) ingest multiple data sources at varying degrees of cleanliness, (2) iterate upon analytics models to help customers refine questions, (3) deploy reproducible results to decision makers in an actionable format.
- 3. Participate in the process for capturing lessons learned, historical business knowledge to educated and align future analysts.





External Consultants

	The second secon			Enternal Companion
Cost	Pro plan = \$10/user/month	\$70/ developer / month \$15/ viewer / month	5 developers, 50 users	
Cost to add new users	10*12*55 (users) = \$6,600 / year		+ staging server	
Yearly Costs	T. D	100 viewer minimum		
	The Premium plan starts at \$4,995 a month per dedicated cloud compute	(70*12*5(developers) + (15*12*100(users))		
	and storage resource.	= \$22,200/year + server/set up costs	\$32,901 / per year	
Developer Interaction Experience	GUI + embedded formulas	GUI + embedded formulas	code for development/ IDE	
Programming languages available	Some other language bindings, but	Some other language bindings, but	B - th - th - th - th	
	mostly using Power BI specific syntax	mostly using Tableau specific syntax	R, python, stan, c++, html, etc.	
Data Cleaning Capabilities What data is accepted (data ingestion)	Largely dependent on ~clean/ rectangular data being imported	Largely dependent on ~clean/ rectangular data being imported	Accepts data from many different	Could lack visibility
	rectangular data being imported	rectangular data being imported	sources	
Reusable, Reproducible, Auditable analysis pipeline				
Connections to version control	Mithin the MC consenters allowing	December of the annulination	For different analysis and analysis	
Dashboards Integrates with single sign-in	Within the MS ecosystem, allowing for movement from excel to Power BI	Purpose of the application	Few different packages provide solutions:	
Easily auditable (calculated cells vs/function)	for movement from excerto Power Bi			
Easy branding			Rmarkdown/ parameterized reports,	
Can ingest/ gather data from user input			Shiny, flexdashboard, Distill, and	
Development Time			many other integrate with RStudio	
Exportable results			Connect	
Accessible in different mediums (phone, tablet, browser)	Commendate her wildfur	Add	O	
Add-ons from Base	Some need to be paid for	Add-ons cost per user/ month	Open source development, CRAN	
Analytics Capabilities	Can import some analytics results in	Can import some analytics results in to	 Spatial analytics capabilities (i.e. 	
	to visualize later	visualize later	drive time, using shapefiles)	
			 Simulation tools/ MCMC, 	
			Optimization/solvers	
			 Text mining/ text cleaning 	
			Process miner	
			 Forecasting, Modelling 	
			Network Analysis	
Other Capabilities	Can be easily integrated into the rest	Has a data governance add-on	Supports integration into MS	
 Supports building APIs 	of the MS Office ecosystem		ecosystem.	
 Can send emails/scheduled? Rule based? 				
 Testing for data quality as part of process 				
Community of Practitioners	Power BI specific	Tableau specific	Transferability of skillset/ hiring	
			potential	
			Likely finding advanced users that	
			can bring stronger analytic insights	
			and the state of t	

Analytics Toolset Comparison