



Plan of Approach Energy Consumption Dashboard

01

Team

02

Business Case

03

Tools

04

Data Sources

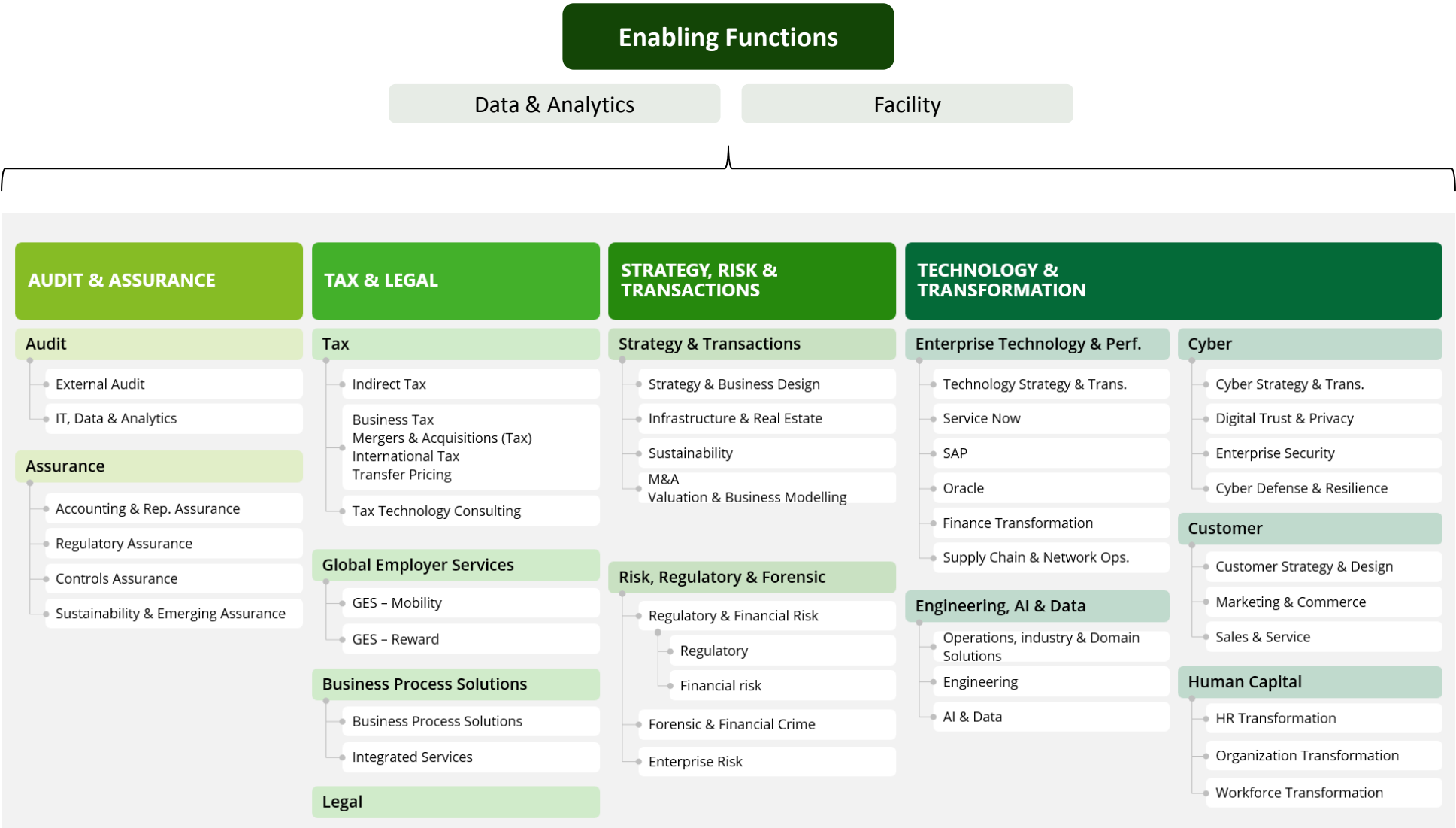
05

Scope & Planning

06

Realization

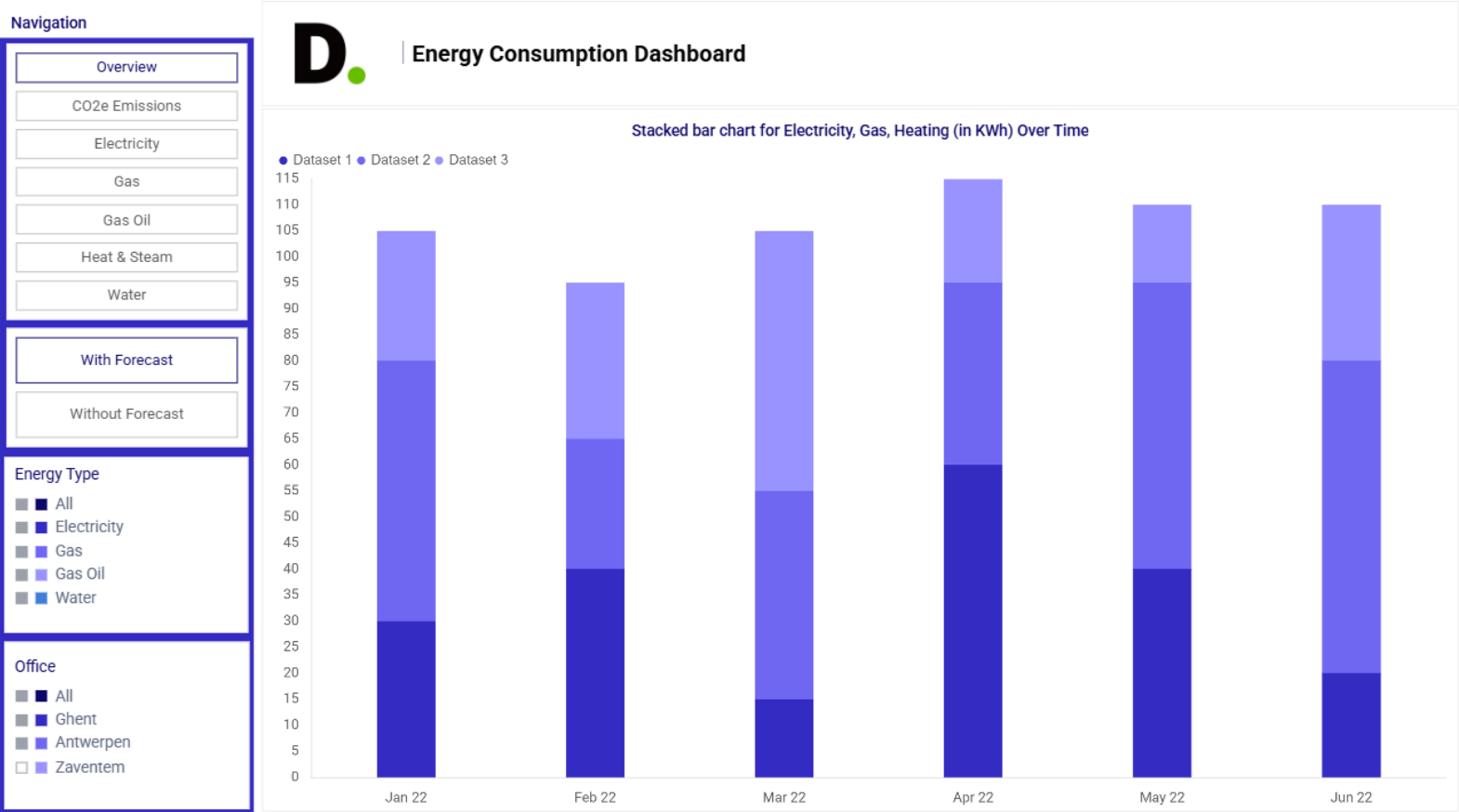
The Full Storefront of Deloitte Belgium



Internal

External

Energy Consumption
Dashboard
Facility Department



Tools I will be working with



Microsoft Fabric

From source to end user, Microsoft's new data analytics platform.



Power BI

business intelligence (BI) tool from Microsoft that allows us to visualize data and build dashboards.



Qlik Sense

Where the existing dashboard is made.



Mokkup.ai

A modern dashboard wireframing tool that enables you to create mockups quickly and effortlessly.



Azure DevOps

The DevOps tool used by our team. Here we split our work in features, user stories and tasks.



RPAs & APIs

Our source data is accessible through APIs and RPAs written in Selenium and Python.

	Electricity	Water	Heating	EV	Solar
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	
[REDACTED]	[REDACTED]	[REDACTED]			
[REDACTED]	[REDACTED]				
[REDACTED]	[REDACTED]	[REDACTED]		[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]			
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]					
[REDACTED]				[REDACTED]	
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	
[REDACTED]	[REDACTED]				
[REDACTED]				[REDACTED]	
[REDACTED]	[REDACTED]				
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	
[REDACTED]					

Excel

Energy Suppliers
And Deloitte offices

Deloitte.

Scope & Planning

	Title	Description	Timing	Sprint
Data Ingestion	████	Connection to █████ dataset	15	1
	████████	Connection to █████ dataset	15	1
	████	Connection to █████ Profile dataset	15	1
	Weather data	Connection to weather dataset	15	1
	████	Connection to █████ dataset	15	1
	Excel ingestion	Ingest Excls into our dataset	25	1
Semantic Model & Visualizations	Semantic model	Modelling data into a visualization-ready dataset	15	2
	Electricity, Heating, Gas sheets	Visualize all energy sources	42	2
	Filters & Drilldowns	Make it possible to filter based on office or energy type	10	2
	CO2 Consumption	Visualize and calculate the CO2 consumption	20	2
Calculations	SQ2 Fossil vs Non-Fossil Fuels	How much square meters of the facility consumes fossil versus non-fossil fuels	12	3
	Consumption Forecast	Forecasting of the Energy consumption of the next 12 months, split in zones in function of the number of Bikes and Electric cars	42	3
	Temporary Forecast	Temporary forecast based on the historical information	18	3
	Fuel Shortage Prediction	Forecast of when a fuel oil shortage could occur	10	3

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Project timeline

Sprint planning

● BI Development ● Data Ingestion ● Requirement

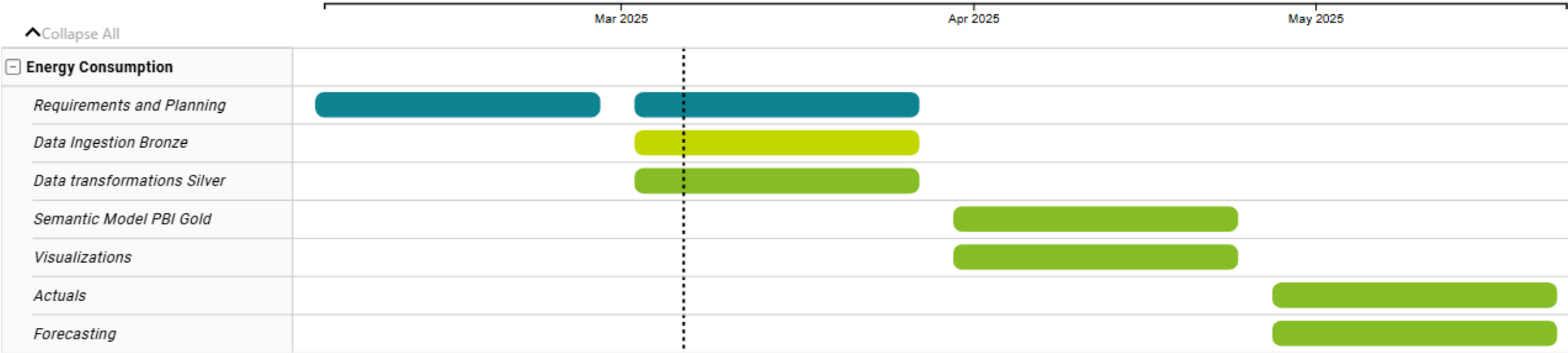
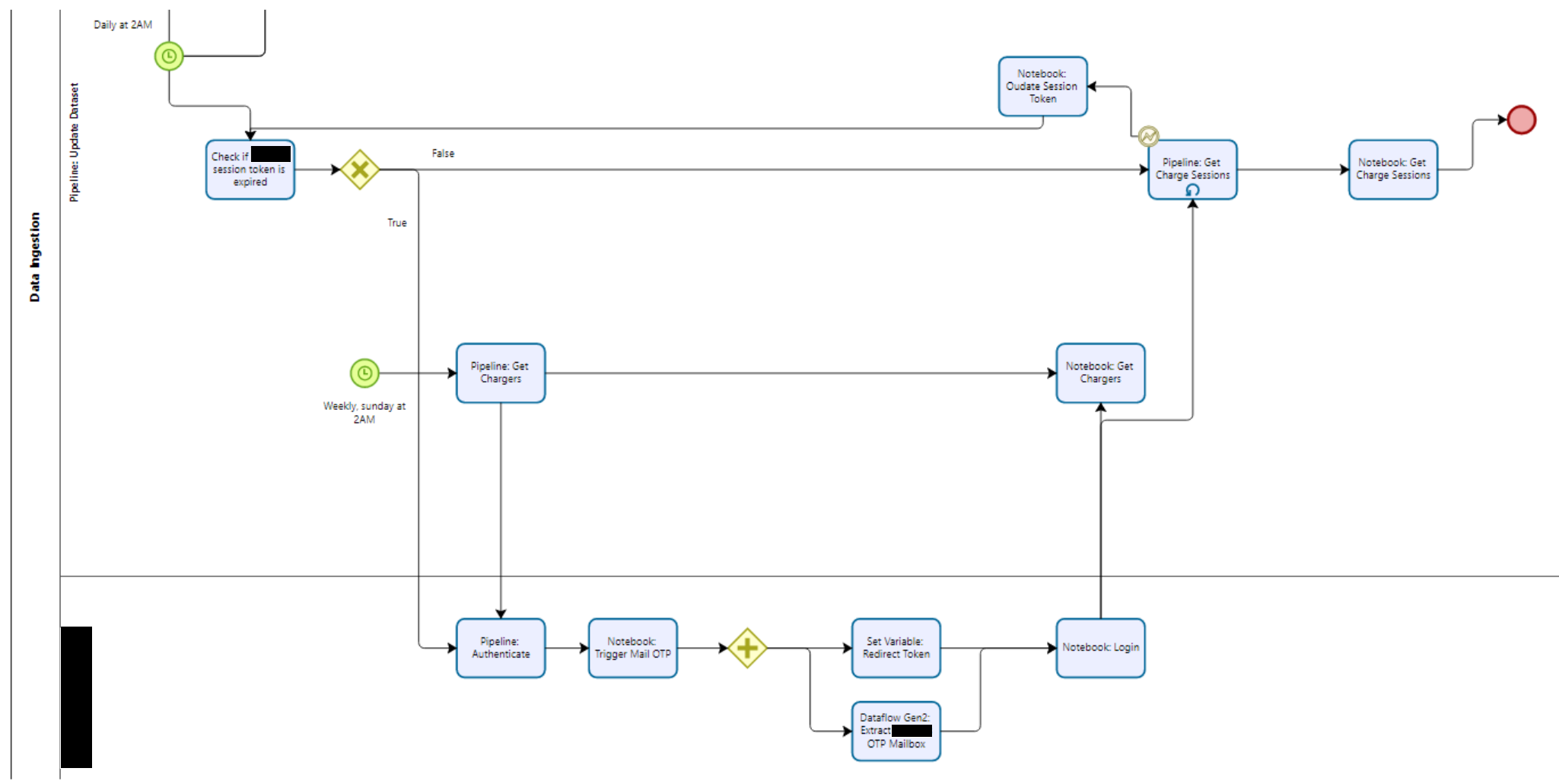


TABLE	TEST BRONZE TABLE	TEST SILVER VIEW	TEST GOLD DIMFACT

NAMING PROD	PROD BRONZE TABLE	PROD SILVER VIEW	PROD GOLD DIMFACT

SUPPLIER	ITEM	TYPE	SCHEDULE	PROD BRONZE	PROD SILVER	PROD GOLD
		notebook	invoked	x		
		notebook		x		
		pipeline		x		
		pipeline	invoked	x		
		notebook		x		
		notebook		x		
		notebook	invoked	x		
		pipeline	invoked	x		
		notebook	invoked	x		
		notebook		x		
		notebook		x		
		pipeline	daily 2:00:00 AM	x		
		pipeline	daily 2:00:00 AM	x		
		dataflow		x		
		pipeline		x		
		notebook	invoked	x		
		notebook	invoked	x		
		notebook	invoked	x		
		pipeline	invoked	x		
		dataflow		x		
		notebook	invoked	x		
		notebook	invoked	x		
		dataflow	invoked	x		
		pipeline		x		
		pipeline		x		
		dataflow	invoked	x		
		notebook	invoked	x		
		notebook	invoked	x		
		notebook	invoked	x		





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Thank you for your
attention

Nathan Neve

