



Purposed for people | [HALFF ASSOCIATES](#)

„Based on our objective to introduce a comprehensible and uniform report generation, we couldn't get past the graphomate products.“

Jeremy Baummer, *Business Analyst at Halff Associates*

Company

Halff Associates

Industry

Engineering Services

Headquarters

Richardson Texas,
USA

Number of Employees

1,500

graphomate products

matrix

Software environment

Vantagepoint Intelligence
(Tableau used with
Deltek Vantagepoint)

The Company

Halff is an engineering firm designed, engineered, planned, constructed, and purposed for people. Since 1950, we've been creating smart solutions that improve lives and communities by turning ideas into reality. We are a 100% employee-owned company that is No. 85 on the ENR Top 500 with 34 offices throughout 5 states and are frequently ranked as one of the top places to work.

The Initial Situation

Due to our matrix organizational structure, the tables used to present data tend to require more dimensions to illustrate the effects that different groups in the organization are having on key metrics. This need couldn't be handled efficiently by Tableau due to how it handles dimensions, requiring a new column per dimension without allowing for overlap when the hierarchy is expanded. This hid valuable information, especially at prominent levels in the company where most important. The issue was causing frustration with many users causing them to reference or derive this information using other sources, duplicating effort, and reducing the accuracy of the information they were using. Even worse, this also caused a delay in the retirement of an outdated legacy report system.

The Objective

Employees' frustrations needed to be eased and a better solution found to ensure that everyone could gather their key data in one location. The data needed to be accessible to all end users while being processed quickly and clearly.

The solution with the graphomate extensions

We replaced all the tables in our dashboards using Graphomate Matrix with our next dashboard update. These tables were well received by users and have resulted in a more universal acceptance of using our dashboards as the primary location for reviewing metrics. This is also helping for use to introduce more metrics that we want our employees to review and create better efficiency and awareness across our company.

Solution Examples

Utilization Variance Report

	10/29/2023	10/22/2023	10/15/2023	10/8/2023	10/1/2023	9/24/2023	9/17/2023	9/10/2023	9/3/2023	8/27/2023	8/20/2023	8/13/2023	8/6/2023	7/30/2023	7/23/2023	7/16/2023	7/9/2023	7/2/2023
Overall	(5.1)%	3.5%	(0.6)%	1.3%	2.0%	1.6%	(0.9)%	0.5%	0.3%	0.3%	2.2%	3.6%	(1.0)%	3.3%	2.2%	4.8%	7.1%	1.2%
Region 1	1.0%	9.8%	(5.6)%	2.1%	4.8%	8.5%	7.5%	(5.4)%	2.1%	3.0%	6.7%	8.8%	6.5%	5.3%	2.2%	7.4%	9.6%	13.4%
Office 1	1.0%	9.8%	(5.6)%	2.1%	4.8%	8.5%	7.5%	(5.4)%	2.1%	3.0%	6.7%	8.8%	6.5%	5.3%	2.2%	7.4%	9.6%	13.4%
Region 2	(6.7)%	4.3%	2.9%	0.7%	3.0%	1.0%	(1.3)%	1.6%	0.4%	1.0%	3.6%	3.6%	1.2%	3.9%	2.5%	4.3%	5.8%	(1.4)%
Office 2	(6.7)%	4.3%	2.9%	0.7%	3.0%	1.0%	(1.3)%	1.6%	0.4%	1.0%	3.6%	3.6%	1.2%	3.9%	2.5%	4.3%	5.8%	(1.4)%
Team 1	4.7%	9.8%	7.1%	7.3%	(1.3)%	4.7%	(8.7)%	(3.8)%	4.2%	10.3%	10.8%	4.1%	3.0%	8.3%	9.3%	0.2%	2.4%	0.5%
Employee 1 (Tar: 90%)	2.5%	10.0%	3.7%	(3.7)%	(18.8)%	(13.8)%	(42.5)%	3.7%	10.0%	10.0%	0.8%	(3.7)%	(1.8)%	6.3%	(42.5)%	(15.0)%	(20.0)%	
Employee 2 (Tar: 96%)	4.0%	4.0%	5.2%	10.9%	4.0%	11.5%	(42.3)%	(27.2)%	4.0%	4.0%	4.0%	(6.0)%	4.0%	4.0%	10.9%	4.0%	4.0%	
Employee 3 (Tar: 96%)	4.0%	4.0%	2.8%	4.0%	(22.2)%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%	
Employee 4 (Tar: 96%)	0.9%	4.0%	4.0%	9.0%	4.0%	4.0%	1.5%	(0.7)%	4.0%	5.6%	4.0%	13.4%	15.3%	4.0%	4.0%	4.0%	4.0%	
Employee 5 (Tar: 96%)	4.0%	4.0%	3.4%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%	16.5%	4.0%	9.0%
Employee 6 (Tar: 90%)	10.0%	10.0%	8.5%	8.3%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	0.6%	3.7%	10.0%	10.0%	10.0%	10.0%	5.0%
Employee 7 (Tar: 90%)	10.6%	32.5%	20.6%	18.8%	16.2%	15.0%	15.6%	(8.4)%	0.6%	33.8%	39.4%	6.7%	0.0%	0.0%	8.8%	1.3%	4.1%	(10.0)%
Employee 8 (Tar: 60%)	(7.3)%	2.6%	7.2%	0.5%	5.0%	2.3%	0.2%	2.6%	4.4%	2.1%	3.1%	5.2%	4.9%	4.8%	(3.8)%	2.9%	0.1%	(3.5)%
Team 2	(16.8)%	2.3%	(5.8)%	(4.9)%	2.9%	(3.8)%	2.3%	3.8%	(8.3)%	(7.4)%	(1.1)%	0.7%	(6.3)%	(0.9)%	6.6%	10.4%	16.2%	0.2%
Team 3	(3.4)%	(4.2)%	(5.9)%	3.2%	(3.5)%	(1.9)%	(5.1)%	0.1%	(1.3)%	(3.8)%	(6.2)%	(0.7)%	(15.4)%	(0.8)%	0.7%	6.1%	9.6%	(2.1)%
Region 3	(3.4)%	(4.2)%	(5.9)%	3.2%	(3.5)%	(1.9)%	(5.1)%	0.1%	(1.3)%	(3.8)%	(6.2)%	(0.7)%	(15.4)%	(0.8)%	0.7%	6.1%	9.6%	(2.1)%
Office 3	(3.4)%	(4.2)%	(5.9)%	3.2%	(3.5)%	(1.9)%	(5.1)%	0.1%	(1.3)%	(3.8)%	(6.2)%	(0.7)%	(15.4)%	(0.8)%	0.7%	6.1%	9.6%	(2.1)%

Figure: Utilization Variance Report sample from Halff based on graphomate matrix.

Backlog Report

Project Net Backlog Assignments Backlog (All)

	Previous 5-8 Wks		Previous 1-4 Wks		Future 1-4 Wks		Future 5-8 Wks		Future 9-12 Wks	
	Planned	Actual	Planned	Actual	Planned	Actual	Planned	Actual	Planned	Actual
Overall	1,553,268	819,672	5,597,444	819,956	3,076,508		2,155,581		1,988,192	
Prime	1,025,771	560,600	3,186,502	492,966	1,372,458		919,925		835,973	
Region 1	638,715	376,891	1,806,232	338,434	712,273		669,673		656,854	
Office 1	638,715	376,891	1,806,232	338,434	712,273		669,673		656,854	
Team 1	484,619	254,790	1,259,910	202,031	370,929		507,074		535,184	
Team 2	125,196	115,612	395,884	104,860	243,867		96,115		56,455	
Team 3	28,900	6,489	150,438	31,543	97,478		66,484		65,214	
Region 2	190,843	95,138	715,426	100,880	435,803		79,189		35,087	
Region 3	196,213	88,571	664,844	53,652	224,382		171,063		144,032	
Sub	527,497	259,072	2,410,942	326,990	1,704,050		1,235,657		1,152,220	
Region 1	308,467	168,648	1,652,205	209,216	1,157,207		843,700		781,118	
Region 2	14,557	10,586	59,107	11,628	94,613		82,818		88,279	
Region 3	204,473	79,839	699,630	106,146	452,230		309,139		282,823	

Figure: Backlog Report sample from Halff based on graphomate matrix.