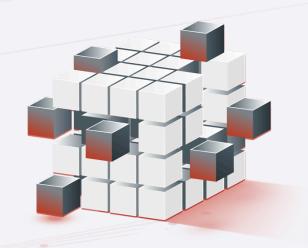
# Enhance your operations with Grind Analytics™

Premier data analytics and business intelligence to accelerate your company's growth.





# Case Studies: Professional Services

Innovation Partners







**Encompass** 

# **USE CASE: MORTGAGE LENDER**

**Problem:** Customer was exporting data from multiple systems to Excel and creating month-end reports. Key operational and financial data was known too late, and the process was extremely manually intensive.

**Solution:** Grind Analytics developed a custom solution and integrated data from multiple sources to create a centralized, real-time view of operations. We also developed a portal for data entry of goals and configuration and the customer was able to start developing dozens of reports and dashboards in Power BI. Financial data included Loan Vision Accounting (Microsoft Dynamics)





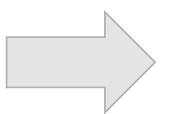






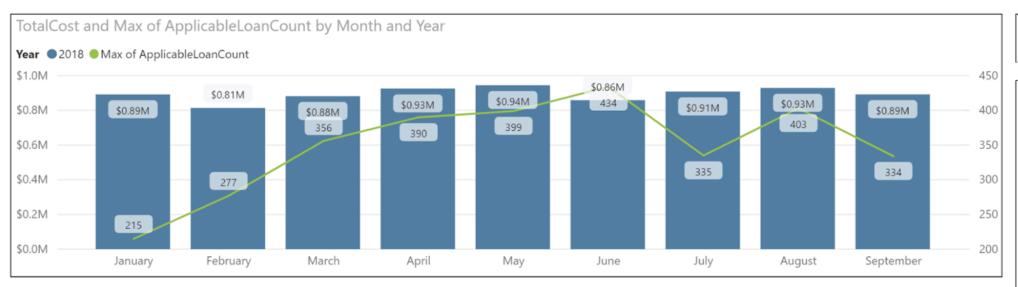


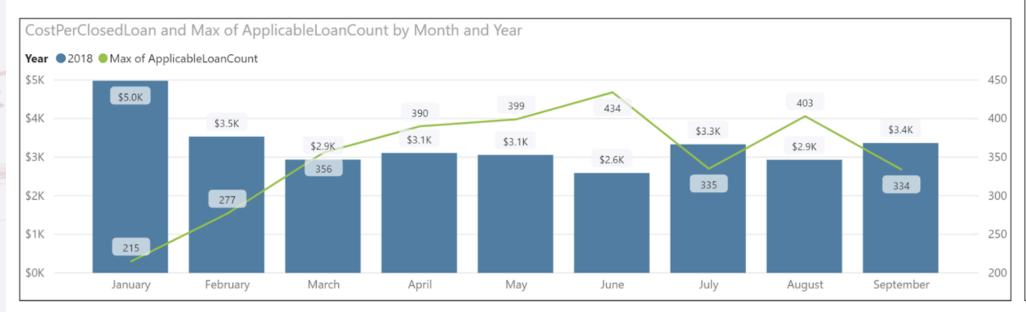






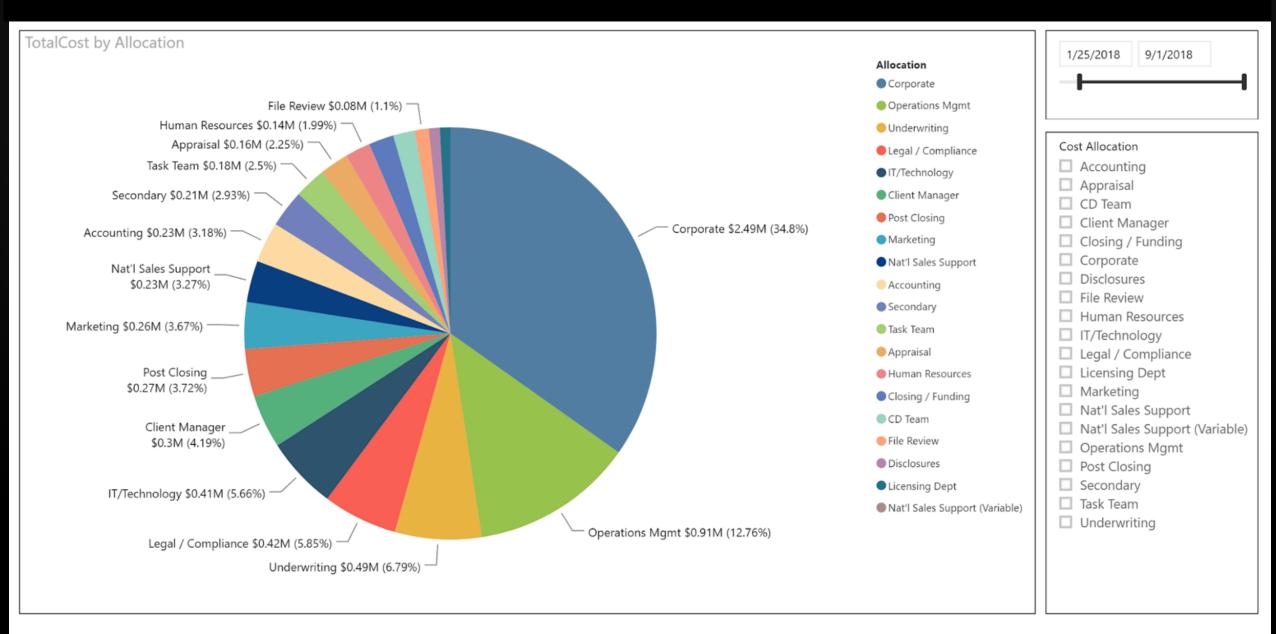
## **Custom Dashboard - Cost Allocation**







## **Cost Allocation Trends**



# **Branch Cost Table**

Branch	January	February	March	April	May	June	July	August	September	Total
Branch 001	\$29,881.22	\$35,334.68	\$14.676.58	\$24.864.47	\$15,286.87	\$18,127,32	\$3,332.86	J		
Branch 001	\$4,980.20	\$35,334.00	\$8,805.95	\$12,432.24	\$15,266.67	\$10,127.32	\$3,332.86	\$8,797.22		\$988,549.72 \$344,037.53
Branch 002	\$4,900.20	\$7,066.94	\$5,870.63		\$3,057.37	\$2,589.62	\$3,332.00	\$0,797.22		
		\$7,000.94	\$5,070.03	\$6,216.12			\$6.665.70	£2.022.41	\$2,266.16	\$121,790.68
Branch 006	£04.663.45	¢74 202 02	\$C1.C41.C4	\$27.20C.74	\$3,057.37	\$5,179.24	\$6,665.72	\$2,932.41	\$3,366.16	\$106,948.91
Branch 013	\$84,663.45	\$74,202.83	\$61,641.64	\$37,296.71	\$94,778.59	\$46,613.12	\$53,325.76	\$58,648.11	\$67,323.17	\$5,251,041.35
Branch 014	\$9,960.41	\$10,600.40	\$5,870.63	\$9,324.18	610 244 24	£7.760.0F	¢22.220.02	\$22.250.40	\$12.464.62	\$145,570.46
Branch 015	\$29,881.22	\$35,334.68	\$32,288.48	\$37,296.71	\$18,344.24	\$7,768.85	\$23,330.02	\$32,256.46	\$13,464.63	\$2,088,482.35
Branch 017	\$19,920.81	\$31,801.21	\$46,965.06	\$34,188.65	£2.057.27					\$582,281.86
Branch 020	£14040.61	\$10,600.40	\$5,870.63	\$3,108.06	\$3,057.37	£2.500.62	£2.222.06	£2.022.44		\$88,439.52
Branch 034	\$14,940.61	\$10,600.40	\$2,935.32	\$6,216.12	¢22.624.44	\$2,589.62	\$3,332.86	\$2,932.41	£40.202.00	\$280,943.16
Branch 200	\$49,802.03	\$21,200.81	\$29,353.16	\$24,864.47	\$33,631.11	\$49,202.74	\$36,661.46	\$35,188.87	\$40,393.90	\$2,953,710.76
Branch 201	\$34,861.42	\$10,600.40	\$20,547.21	\$27,972.53	\$24,458.99	\$33,665.03	\$29,995.74	\$38,121.27	\$26,929.27	\$2,297,330.59
Branch 202	\$69,722.84	\$42,401.62	\$35,223.80	\$40,404.77	\$30,573.74	\$36,254.65	\$49,992.90	\$38,121.27	\$43,760.06	\$3,460,913.62
Branch 203	\$4,980.20	\$17,667.34	\$2,935.32	\$3,108.06	\$24,458.99	\$5,179.24	\$3,332.86	\$14,662.03	\$16,830.79	\$865,228.40
Branch 210	£40.000.04	\$3,533.47	\$32,288.48	\$31,080.59	\$33,631.11	\$36,254.65	\$29,995.74	\$41,053.68	\$37,027.74	\$2,013,276.01
Branch 211	\$19,920.81	\$7,066.94	\$2,935.32	**********	**********	**********	*********	4472.044.00	*****	\$80,142.91
Branch 212	\$134,465.48	\$169,606.48	\$149,701.13	\$202,023.84	\$143,696.57	\$155,377.07	\$186,640.16	\$173,011.92	\$114,449.39	\$13,336,451.60
Branch 213	\$34,861.42	\$14,133.87	\$26,417.85	\$24,864.47	\$30,573.74	\$36,254.65	\$23,330.02	\$41,053.68	\$30,295.43	\$2,446,507.90
Branch 214	\$4,980.20	\$17,667.34	\$23,482.53	\$55,945.06	\$27,516.37	\$12,948.09	\$39,994.32	\$32,256.46	\$20,196.95	\$2,237,659.67
Branch 216					\$3,057.37	\$5,179.24	\$23,330.02	\$35,188.87	\$26,929.27	\$458,352.47
Branch 217					40.44.77	\$5,179.24	****	\$14,662.03	\$3,366.16	\$71,105.46
Branch 218					\$6,114.75	\$7,768.85	\$13,331.44	\$5,864.81	\$20,196.95	\$259,733.07
Branch 219				\$3,108.06	\$12,229.50	\$5,179.24		\$2,932.41	\$6,732.32	\$150,536.15
Branch 220				\$3,108.06	\$64,204.85	\$38,844.27	\$56,658.62	\$41,053.68	\$57,224.70	\$1,562,850.36
Branch 400	\$29,881.22	\$21,200.81	\$41,094.43	\$6,216.12	\$6,114.75	\$2,589.62	\$6,665.72	\$2,932.41		\$899,956.32
Branch 401				\$3,108.06		\$5,179.24	\$3,332.86	\$2,932.41	\$6,732.32	\$107,303.71
Branch 402				\$31,080.59	\$18,344.24	\$10,358.47	\$26,662.88	\$49,850.89	\$84,153.97	\$1,287,053.24
Branch 600	\$24,901.01	\$45,935.09	\$5,870.63	\$9,324.18						\$334,812.07
Branch 800			\$11,741.27							\$11,741.27
Branch 802						\$2,589.62				\$2,589.62
Branch 900	\$413,356.83	\$360,413.77	\$454,974.03		\$559,499.42	\$538,640.50	\$456,601.82	\$463,320.07	\$440,966.78	\$30,923,605.50
Total	\$1,015,961.37	\$946,969.50	\$1,021,490.07	\$637,152.10	\$1,158,744.71	\$1,074,691.39	\$1,079,846.64	\$1,137,773.33	\$1,060,339.96	\$84,911,725.42

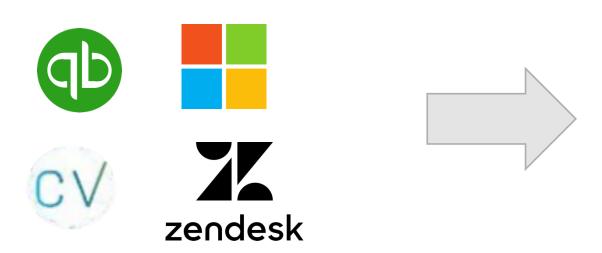
2018 ~

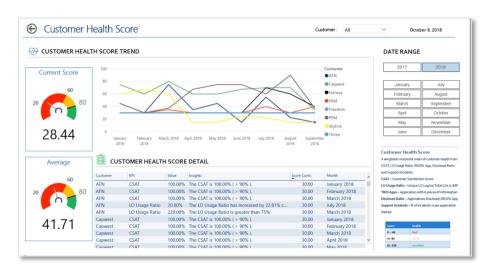
Branch
☐ Branch 001
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# **USE CASE: SAAS FINTECH VENDOR**

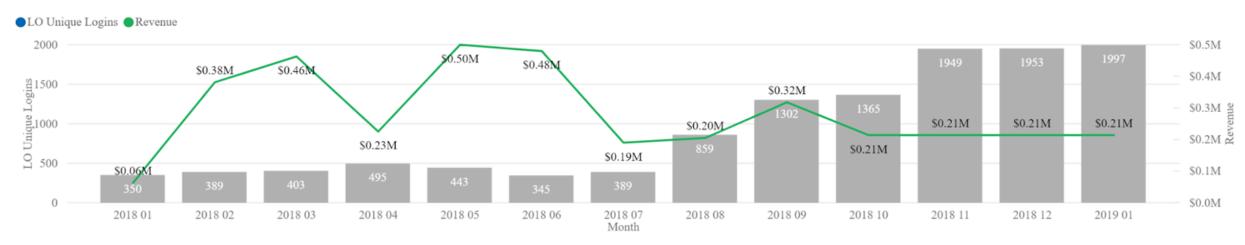
**Problem:** Customer was not able to attain an accurate picture of the health of their customer base.

**Solution:** Grind Analytics integrated data from point of sale, financial, web analytics, and customer care systems to create a real time view of customer health metrics. We developed a custom portal for data entry of goals and configured to meet company objectives. Resulted in dozens of reports and dashboards in Power BI and included integration of multiple customer database instances.



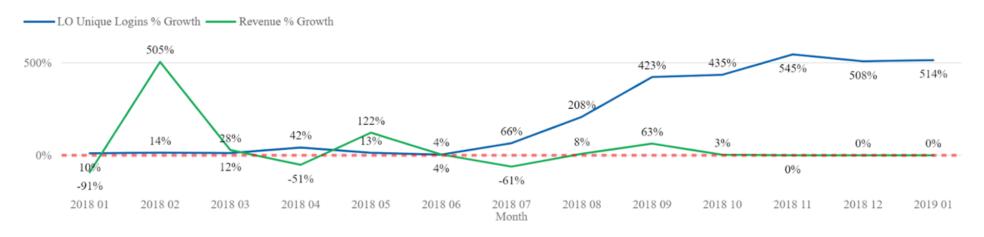


## **Custom Dashboard – Revenue Growth**



#### \*\*\*

#### YTD MONTHLY PERCENTAGE GROWTH - ADOPTION VS REVENUE



Positive difference between Revenue Growth Rate and LO Logins Growth Rate indicates high performing LOs are logging into iMP. And negative difference indicates less number of high performing LOs are logging into iMP.

# **Custom Architecture**



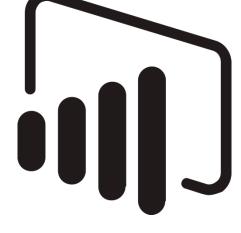












**Power BI** 









Feature	Description
Cross-Platform	Mobile Application, Web, and Desktop
Real-time Data	Data can be pushed and visualized in real-time
Report Subscriptions	Subscribe individually to reports and they are emailed on your schedule
Self-Service Dashboards	Create dashboards by pinning visuals from reports or querying data
Rich, Interactive Reports	Reports are not static. Easily report your data with rich, interactive visuals
Cortana Integration and Natural Language	Query and talk to your data with plain language. Pin results to dashboards
Insights	Artificial Intelligence analysis of data provides insights you may not see

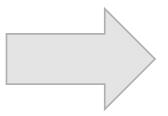


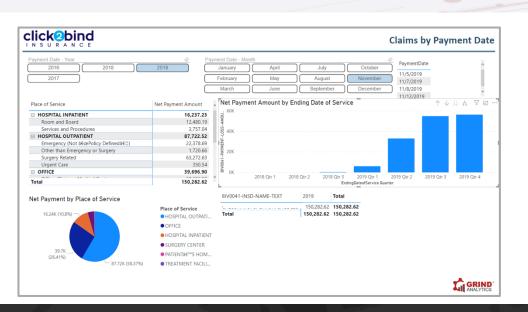
#### **USE CASE: HEALTH INSURANCE CLAIMS**

**Problem:** Health Insurance Broker was exporting claims data from multiple systems to Excel and creating claims analysis reports for their business customers. The process was extremely manually intensive, and could only be provided annually.

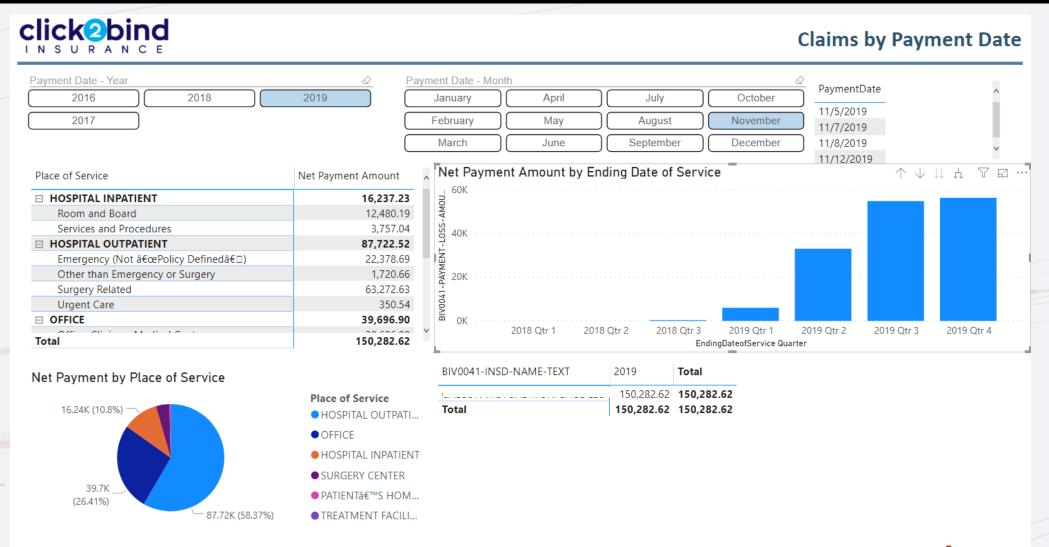
**Solution:** Grind Analytics developed automated integration with UMR for claims data. We also developed a health insurance claims data model. Now the customer is developing reports and dashboards in Power BI which will be made available to broker's customers.







## **Custom Dashboard - Claims**





#### **USE CASE: ONLINE INSURANCE SHOPPING**

**Problem:** Customer had desire to aggressively market online but had no method to allow customers to shop, quote, and self-serve online.

**Solution:** Grind Analytics integrated data from USPS and Core Logic Via ITC's Turborater to collect property data. We developed a custom portal based on customer requirements to collect information directly from leads and automatically presented quotes. Further integration with Encompass LOS allowed loan officers to generate quotes on demand and transition leads to broker. We managed lead and quote data using Tech Canary within Force.com and automated communications to the customer and tasks using the Force.com process builder. We used Conga composer to generate quote documents and send to leads. Lastly, we created a rules engine within Force.com to identify high risk leads/properties and flag them for manual review. All this resulted in more efficient operations.









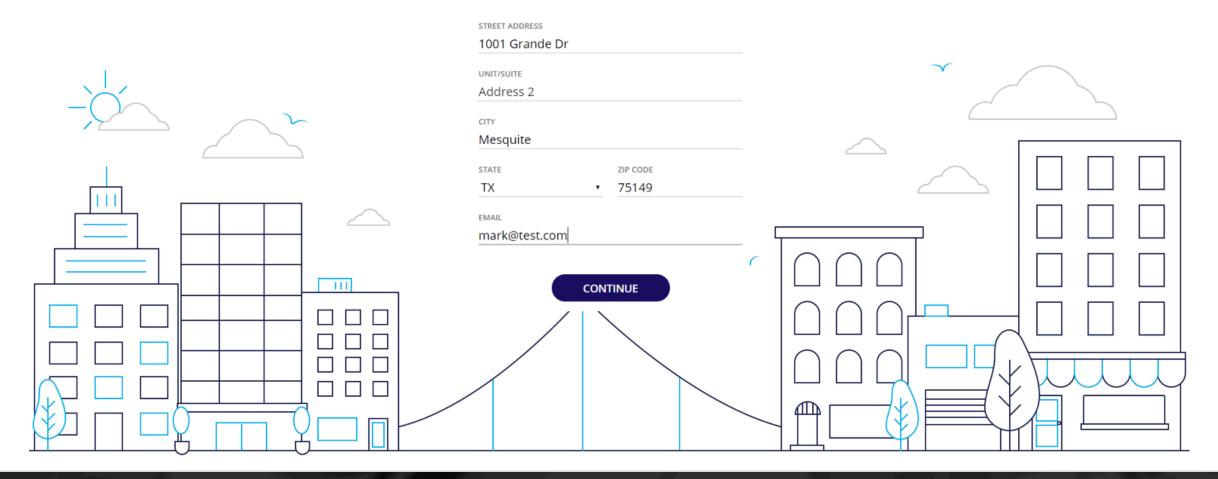




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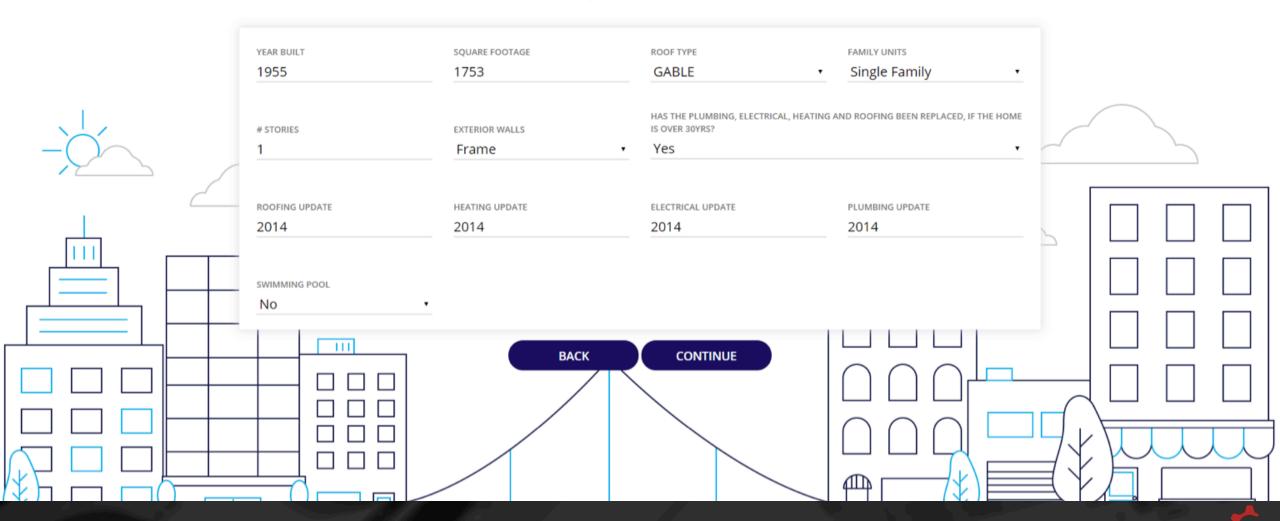
Real-Time Quotes From A Rated Carriers

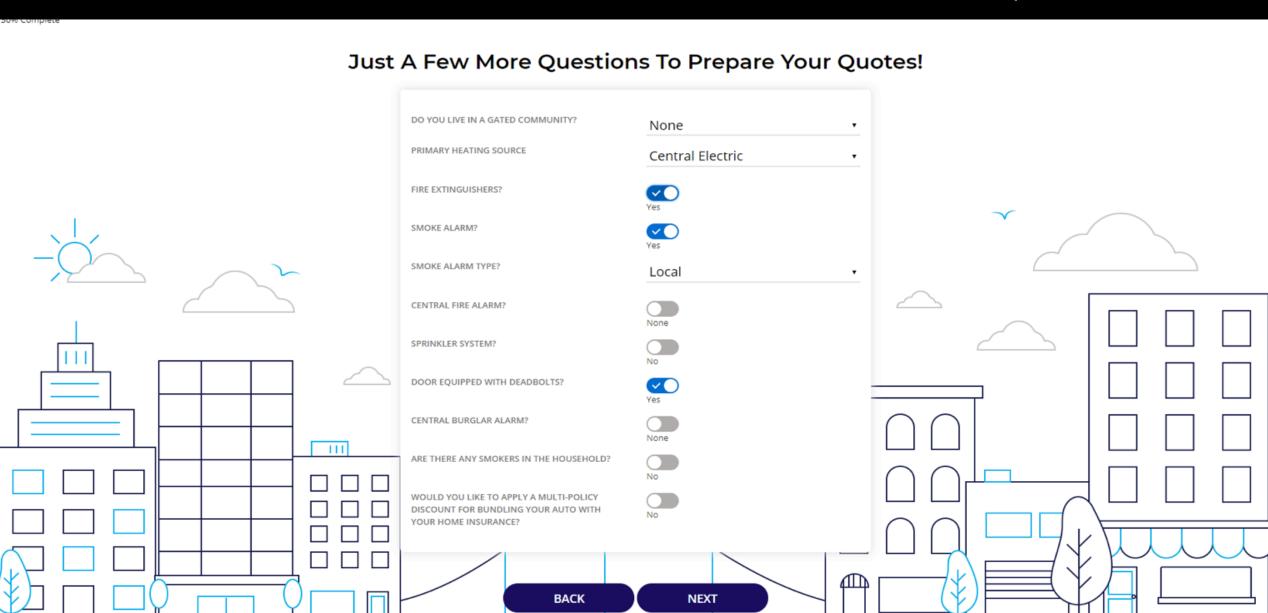
Please enter the property address to get started





We Found Your Property!
Please answer any of the blank fields below.



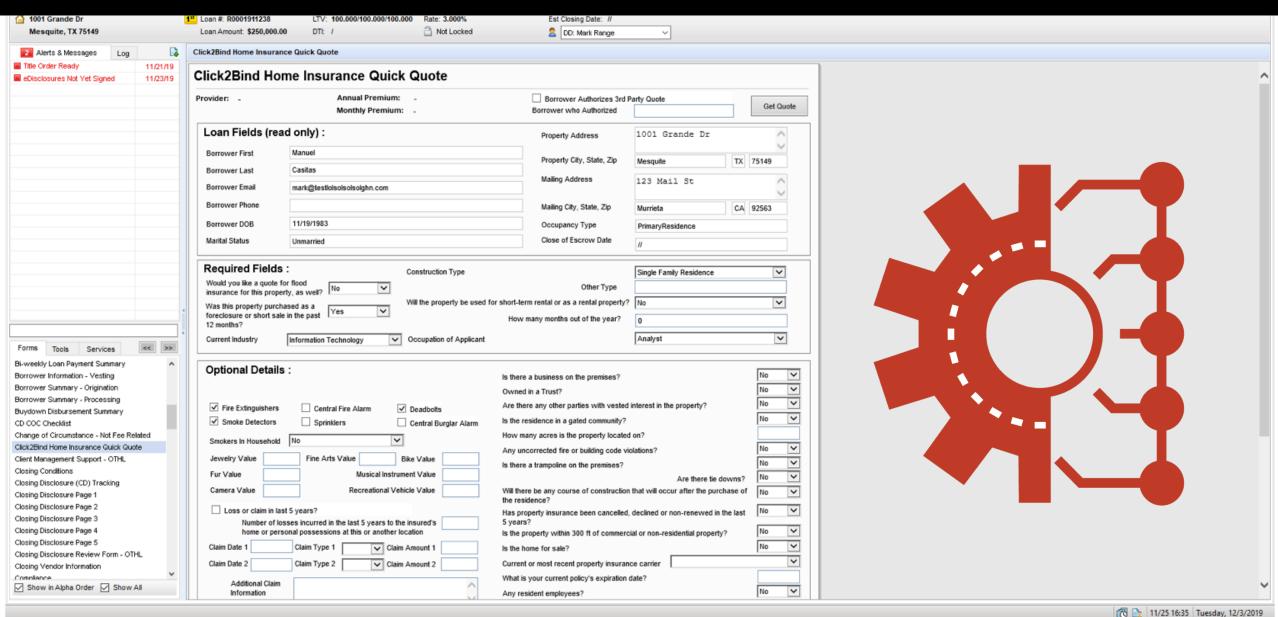


#### Your Most Competitive Options From Our A Rated Carriers

		STILLWATER	TRAVELERS	
	Dwelling Amount	\$ 191,766.00	\$ 191,766.00	
	Dwelling Replacement Cost	100%	15096	
	Other Structures Coverage	\$ 19,177.00	\$ 19,176.00	
	O Loss of Use	\$ 38,353.00	\$ 38,353.00	_
	Personal Property Amount	\$ 95,883.00	\$ 95,883.00	
	Personal Property Valuation	Replacement Cost	Replacement Cost	
	O Personal Injury	Included	Included	
	Personal Liability	\$ 500,000.00	\$ 500,000.00	
	Medical Payments	\$ 1,000.00	\$ 1,000.00	
	Water Back-Up	N/A	N/A	
	Scheduled Personal Property	N/A	N/A	
	All Peril Deductible	\$ 1,000.00	\$ 1,000.00	
	Wind And Hail Deductible	296	296	.
	Annual Premium	\$2,346.79	\$1,718.00	
		SELECT	SELECT	



# **Custom Dashboard - Insurance Quotes**



#### **USE CASE: REGIONAL MEDICAL PRACTICE**

**Problem:** Customer had need to monitor practice performance after a new acquisition and reorganization, but all practices were using different systems.

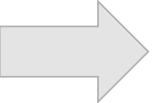
**Solution:** Grind Analytics built a custom solution. The customer needed centralized dashboards to manage financial and operational performance of practices. We built a system that would integrate with each individual office platform. A data warehouse was developed in Azure to also deploy custom executive reports in Power BI.

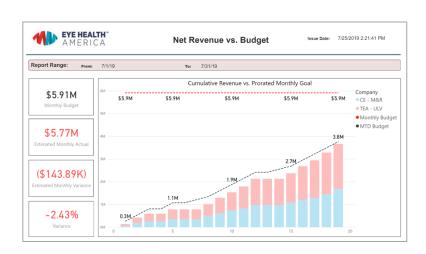












## **Custom Dashboard - Financial Data**

**Report Range:** From: 7/1/19 **To:** 7/31/19

\$5.91M

Monthly Budget

\$5.77M

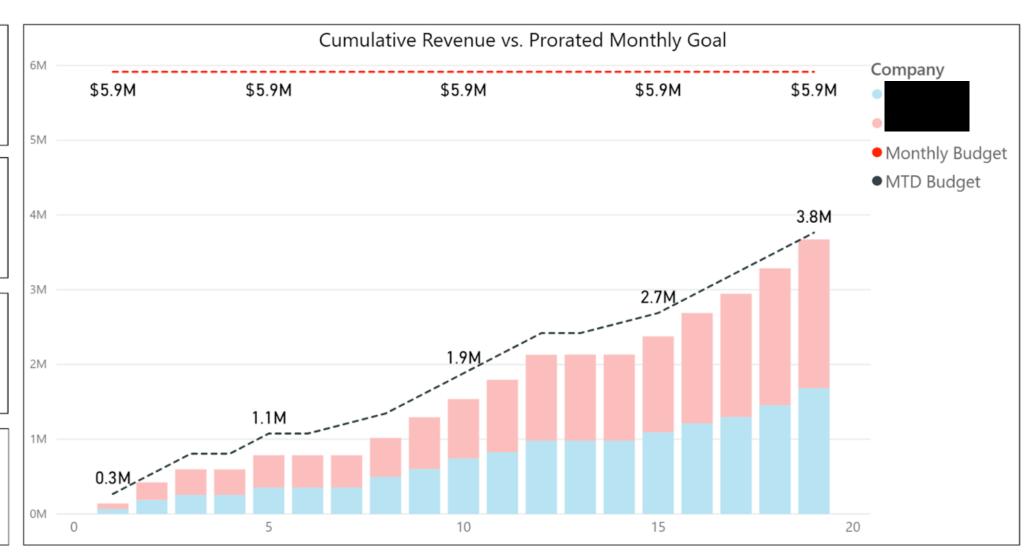
**Estimated Monthly Actual** 

(\$143.89K)

Estimated Monthly Variance

-2.43%

Variance

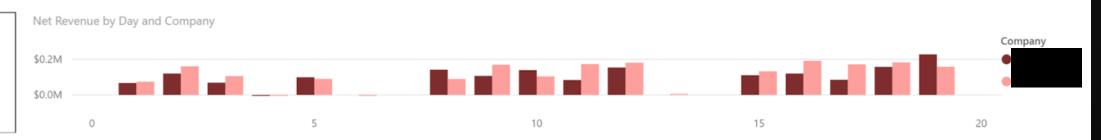


# **Custom Dashboard - KPIs**

**Report Range:** From: 7/1/19 **To:** 7/31/19

\$3.85M

Deposit



\$9.25M

Charge Amount

(\$4.68M)

Charge Adjustment

\$3.67M

Net Revenue

Date ▼	Daily Deposit	Charge Amount	Historical Charge Adjustment	Charge Adjustment	Net Billing	Retina COGS Expense	Net Revenu
7/19/19		\$909,306.31	-51.15%	(\$465,138.61)	\$444,167.70	(\$57,669.36)	\$386,49
		\$424,604.44	-49.09%	(\$208,439.50)	\$216,164.94	(\$57,669.36)	\$158,4
		\$484,701.87	-52.96%	(\$256,699.12)	\$228,002.75	\$0.00	\$228,0
7/18/19	\$395,892.40	\$842,534.43	-53.24%	(\$448,535.81)	\$393,998.62	(\$53,482.80)	\$340,51
	\$282,587.60	\$503,471.41	-53.09%	(\$267,270.80)	\$236,200.61	(\$53,482.80)	\$182,7
	\$113,304.80	\$339,063.02	-53.46%	(\$181,265.01)	\$157,798.01	\$0.00	\$157,7
7/17/19	\$272,125.31	\$658,115.86	-51.82%	(\$341,014.84)	\$317,101.02	(\$60,201.12)	\$256,89
	\$142,697.99	\$501,607.28	-53.75%	(\$269,627.25)	\$231,980.03	(\$60,201.12)	\$171,7
	\$129,427.32	\$156,508.58	-45.61%	(\$71,387.59)	\$85,120.99	\$0.00	\$85,1
7/16/19	\$363,303.20	\$802,645.47	-49.97%	(\$401,088.15)	\$401,557.32	(\$89,513.76)	\$312,04
	\$215,316.52	\$563,053.21	-50.05%	(\$281,800.07)	\$281,253.14	(\$89,513.76)	\$191,7
	\$147,986.68	\$239,592.26	-49.79%	(\$119,288.09)	\$120,304.17	\$0.00	\$120,3
7/15/19	\$201,736.69	\$645,424.96	-51.73%	(\$333,853.80)	\$311,571.16	(\$67,704.00)	\$243,86
Total	\$3,851,881.62	\$9,246,979.04	-50.57%	(\$4,675,879.19)	\$4,571,099.85	(\$899,554.26)	\$3,671,54