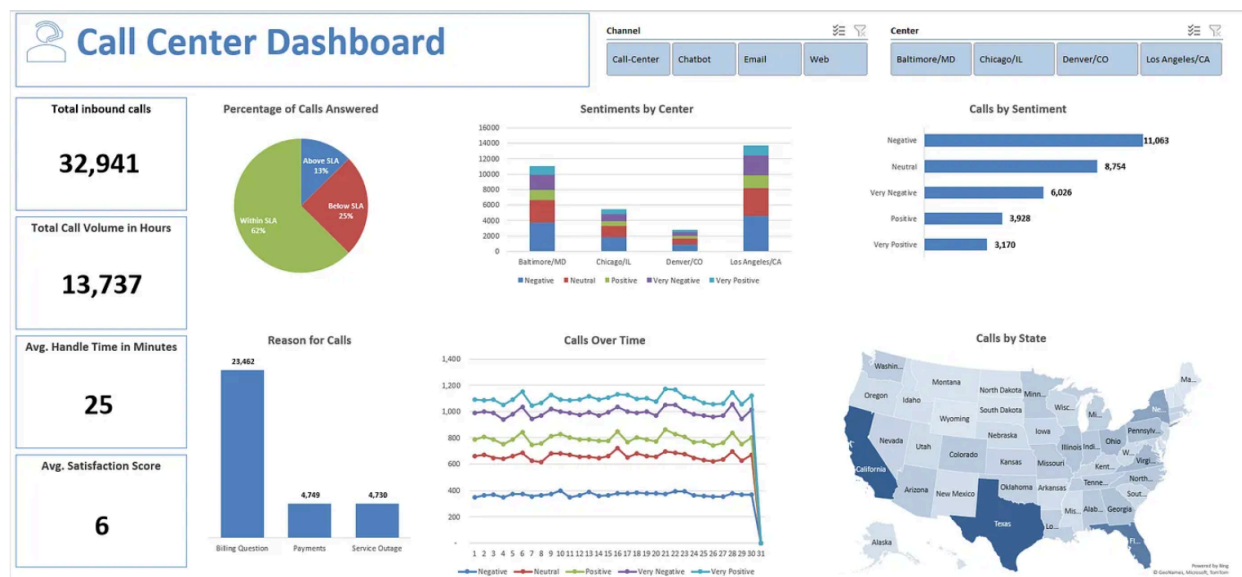


CaseStudy

Project Brief: CX Access & Operational Intelligence



Company: Thriveworks (Case Study)

Objective: Evolving Call Center Analytics from Excel Prototypes to a High-Performance Looker Semantic Layer.

1. Executive Summary

Following my discussion with **Nikki DaSilva** regarding the Business Analytics role, I've structured this project to demonstrate a "Prototype-to-Production" workflow. At a high-growth mental health company like Thriveworks, the priority is transforming raw call data into trusted, actionable insights that allow leadership to optimize patient intake and agent performance.

2. The Two-Dashboard Strategy

Dashboard A: The Excel(Leveraging Google Sheets) Operational Prototype

- Focus: Immediate "Speed to Insight" and Daily Cadence.
- Key Visuals: Hourly Call Volume, SLA Thresholds, and Abandonment Rates.
- Purpose: To serve as a sandbox for testing new logic (e.g., defining "Successful Intake" vs. "Initial Inquiry") before committing to code.

Dashboard B: The Looker Production Environment

- Focus: Scalability, Governance, and Self-Service.
- Key Visuals: Long-term Cohort Trends, Agent Performance Quartiles, and Regional Heatmaps.
- Purpose: To provide VPs and Directors a "Single Source of Truth" where definitions are locked in via LookML, ensuring Finance and Operations are always looking at the same numbers.

3. Metrics for Mental Health Excellence

I've prioritized metrics that impact Thriveworks' ability to serve clients effectively:

KPI	Thriveworks Business Impact	Looker (LookML) Implementation
SLA (Speed to Answer)	Ensures patients in need aren't left waiting.	Measure: % of calls answered < 30s
Conversion Rate	Measures the transition from "Caller" to "Scheduled Appointment."	Measure: Total Appointments / Total Inbound
AHT (Handle Time)	Balances clinical empathy with operational efficiency.	Dimension Group: Duration by Minute/Second
Agent Quartiles	Identifies top-tier intake specialists for peer-mentoring.	Logic: NTILE(4) ranking based on Conversion %

4. The Looker Architecture (The "Nikki" Connection)

To meet the "Looker experience" requirement, this project utilizes a professional development workflow:

- Centralized LookML: Rather than buried Excel formulas, I use a central [view](#) file to define KPIs. This ensures that if the SLA definition changes, I update it in one place, and every dashboard at Thriveworks updates automatically.
- User-Centric Explores: I've designed the Explore layer so that Workforce Management (WFM) can "self-serve" by dragging and dropping dimensions like [Agent Team](#) or [Call Type](#) without needing a SQL request.
- Actionable Alerts: Built-in Looker schedules that push "Low SLA" alerts to Slack, allowing managers to adjust staffing in real-time as call volumes spike.

5. Strategic Recommendations

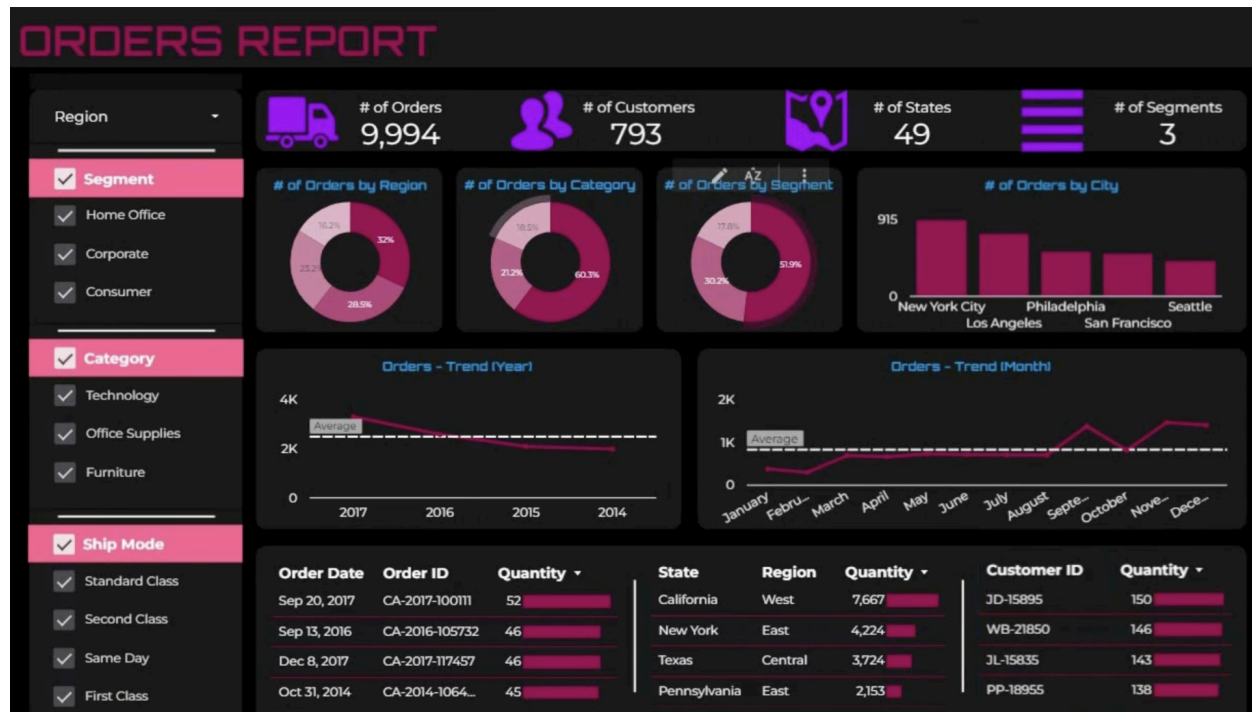
Based on the data trends in this project, I focus on two high-value wins:

1. Intake Optimization: Identifying peak hours where "Abandonment Rate" spikes, suggesting a shift-rebalance to ensure no patient call goes unanswered.
2. Conversion Deep-Dive: Analyzing the "Top Quartile" of agents to see which call scripts or routing paths lead to the highest rate of scheduled mental health sessions.

Looker_Experience

The Vision: Transitioning to Managed Data

While the Excel prototype serves as our operational "sandbox," this Orders & Performance Report demonstrates the production-level scalability required for Thriveworks' growth. It transforms fragmented data into a governed environment where every stakeholder—from Regional Directors to the VP of Finance—is aligned.



1. Explaining the Dashboard (The Production Look)

This dashboard represents a high-level view of customer access and geographic distribution.

- **Primary Volume Metrics:** We are tracking 9,994 total orders across 793 unique customers and 49 states. In a Thriveworks context, this allows us to see exactly where our mental health services are most in demand.
- **Market Segmentation:** The donut charts break down access by Region (Western/Eastern/Central) and Customer Segment (Home Office, Corporate, Consumer). This is critical for identifying which outreach campaigns are successfully converting into clinical appointments.
- **Geographic Density:** The city-level bar chart identifies New York City, Los Angeles, and Philadelphia as high-volume hubs. This data informs staffing decisions—ensuring we have enough licensed providers in the regions with the highest patient density.

- Performance Narratives (Trends): The Orders Trend line charts allow us to compare yearly growth (\$2014-2017\$) against monthly seasonality. This helps leadership predict "The New Year Rush" or "Back-to-School" surges common in mental health.

2. Multi-Platform Expertise (Power BI, Tableau, & Looker)

I don't just "build charts"; I build data architectures. Having worked across the "Big Three" BI tools, I understand their unique strengths:

- Power BI: Excellent for deep integration with Microsoft ecosystems and rapid DAX-based calculations.
- Tableau: The industry standard for high-fidelity, visual storytelling and complex exploratory data analysis.
- Looker (The Thriveworks Edge): Looker is unique because of LookML. Unlike the other two, Looker centralizes logic. If we change our definition of an "Active Patient," I change it in the code once, and it updates every dashboard across the company. This prevents the "my number doesn't match your number" meetings.

3. Shortcomings & The Path to Improvement

Here is how I plan to improve the current workflow at Thriveworks by addressing common shortcomings (Probabilistics):

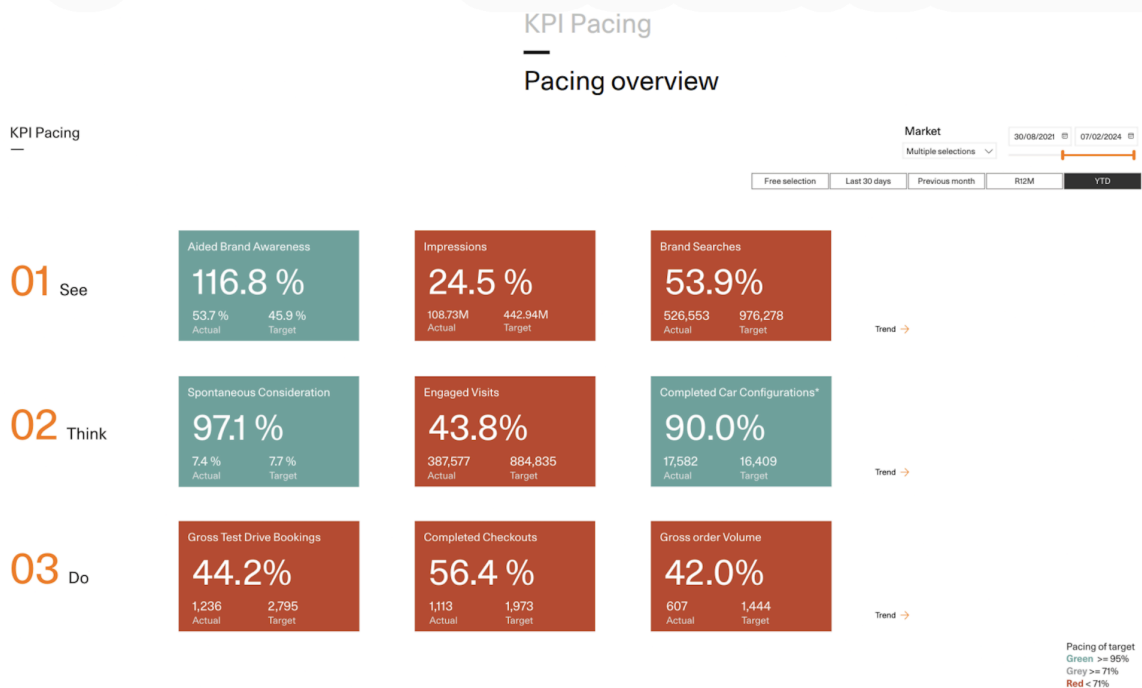
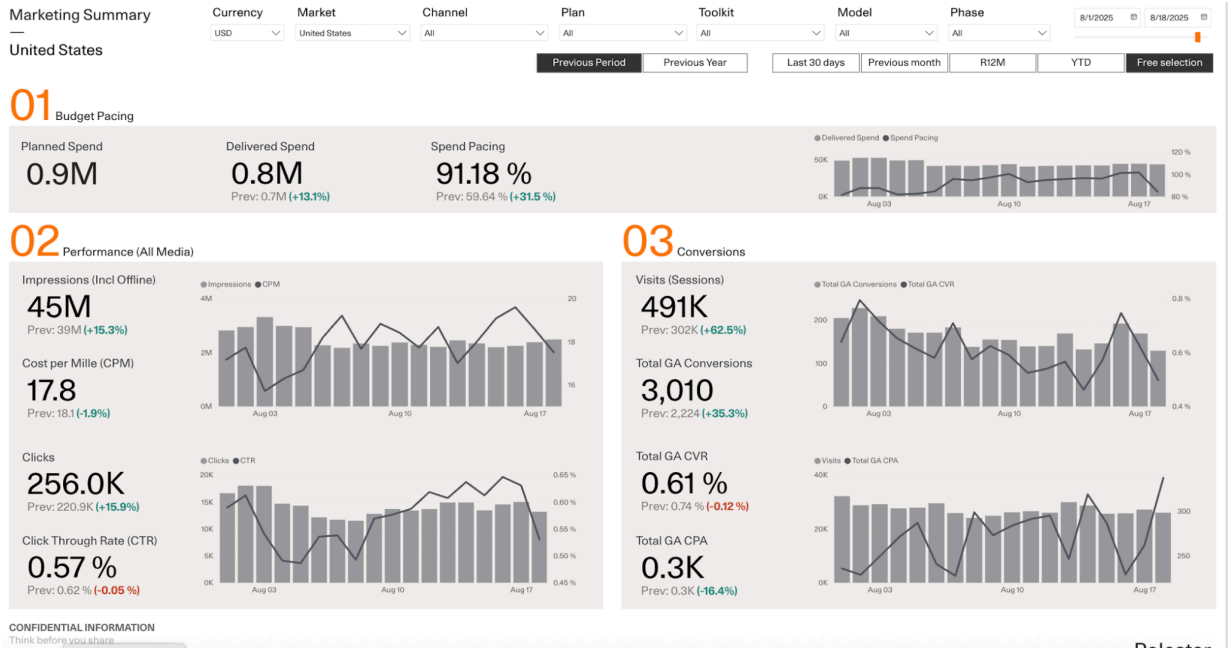
- Shortcoming: **Manual Cleaning Spikes.** As noted in my Excel project, handling "mixed formatting" (dates as text) is a manual drain.
 - The Improvement: Moving this logic into a Looker Persistent Derived Table (PDT). We automate the cleaning in SQL so the data is "born clean" for the end-user.
- Shortcoming: **Static "Snapshots."** Excel dashboards are only as good as the last refresh.
 - The Improvement: Implementing Scheduled Looks and Real-Time Alerts. If the SLA (Service Level Agreement) for patient callbacks drops below our threshold, Looker alerts the Team Lead in Slack immediately.
- Shortcoming: **Calculation Silos.** In many BI tools, formulas are "hidden" inside individual charts.

PowerBI_Experience

Cross-Platform Expertise: The BI "Big Three"

I bring a tool-agnostic approach to Thriveworks. I don't just "use" these tools; I architect them to solve specific business problems:

- Power BI (The Polestar Experience): I used Power BI to build a "Marketing Summary" and "KPI Pacing" overview by integrating Salesforce and Google Analytics data. I focused on:
 - Budget Pacing: Ensuring a \$0.9M planned spend remained on track through real-time delivery tracking.
 - Conversion Optimization: Tracking Total GA CVR (0.61%) and Visits to correlate marketing spend with actual customer behavior.



- Tableau: I've utilized Tableau for high-fidelity storytelling where deep visual exploration of complex datasets is required.
- Looker (The "Thriveworks" Future): My preference for Looker stems from its LookML engine. It creates a "Source of Truth" that prevents data silos. Unlike Excel, where a formula can be accidentally changed in one cell, Looker's

code-based logic ensures every Director at Thriveworks is looking at the exact same \$SLA\%\$ calculation.

Financial & Strategic Operations

Beyond dashboarding, I understand the "P&L" side of business analytics. My background includes:

- OPEX Budgeting & Forecasting: Managing operational expenditures for Canada and the USA.
 - Accrual Accounting: Utilizing subventions to ensure financial accuracy during forecasting cycles.
 - Residual Value Assessment: Managing portfolios where long-term value projection is critical for risk mitigation.
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Continuous Improvement: Overcoming Shortcomings

To ensure Thriveworks remains a leader in patient access, I focus on fixing these common process gaps:

1. Eliminating "Data Drudgery": In my Excel project, I noted that cleaning "Mixed Formatting" (text vs. date) is a manual bottleneck.
 - Improvement: I move this into the LookML layer using Persistent Derived Tables (PDTs) so the data is cleaned automatically before it ever reaches a dashboard.
2. Bridging Clinical & Operational Data: A common shortcoming is looking at "Call Volume" in a vacuum.
 - Improvement: I integrate Salesforce CRM data (like I did at Polestar) to see the full patient journey, from the first call to the 5th therapy session.
3. Proactive vs. Reactive Alerts: Static reports are often ignored.
 - Improvement: I set up Looker Alerts. If a specific center (like Baltimore or Chicago) falls Below SLA, the Director receives an immediate notification to adjust staffing.