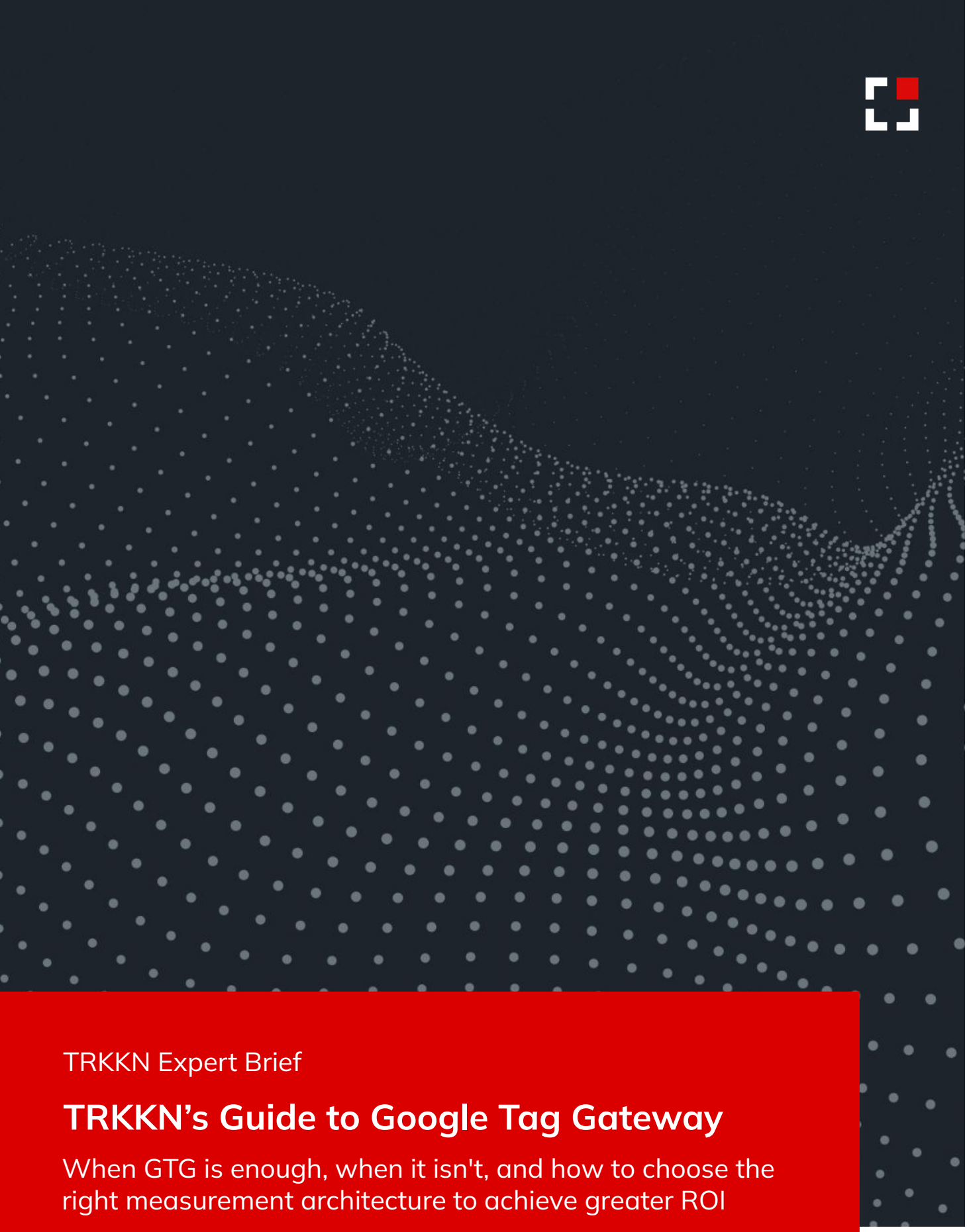


TRKKN Expert Brief

TRKKN’s Guide to Google Tag Gateway

When GTG is enough, when it isn't, and how to choose the right measurement architecture to achieve greater ROI

TRKKN is a Google Data Strength Partner

TRKKN's Guide to Google Tag Gateway

EXECUTIVE SUMMARY

As the digital landscape evolves with new privacy and browser standards, brands must adapt their data collection strategies to maximize ROAS.

The primary purpose of Google Tag Gateway (GTG) is to ensure that Google tags fire and collect data from a first-party domain. By enabling first-party data collection, GTG improves signal quality and allows for significant data recovery that might otherwise be lost to browser settings. **Importantly, GTG does not circumvent privacy controls** or override user consent choices. Existing consent settings and regulatory requirements remain fully in effect. Instead, GTG helps organizations **improve the reliability of first-party measurement** by enabling Google tags to operate more consistently within modern browser and privacy environments.

Whether using automated integrations for supported Content Delivery Network (CDNs) or a manual approach for other infrastructures, all GTG implementation methods achieve the same increased data collection. **This helps marketing teams make smarter optimization decisions and more accurately measure campaign outcomes to drive business growth.**

For many businesses, especially those already using a CDN like Cloudflare or Akamai with a straightforward Google Tag Manager (GTM) setup, **GTG is a genuine quick win**. In some cases, it is almost a "one-click" process that offers some of the core benefits of a full server-side implementation with only a fraction of the cost and complexity. However, it's crucial to be transparent: GTG is not a silver bullet for every organization. Its greatest strength is its simplicity, but that simplicity shines brightest in a specific technical environment.

While the automated setup is ideal for many, organizations with a different CDN, multiple GTM containers, or complex tagging ecosystems will use a manual implementation process. This requires careful planning and resources but achieves the same powerful outcomes.

Ultimately, GTG should be viewed as a strategic choice, not a universal remedy. I**t excels as a low-effort, high-impact solution for businesses with the right technical setup.**

LEARN IN THIS GTG GUIDE:

For others, its limitations may highlight the need for a more comprehensive approach, such as a full server-side GTM (sGTM) implementation.

> ***GTG is not a silver bullet for every organization. Its greatest strength is its simplicity, but that simplicity shines brightest in a specific technical environment***.

Bobby Heller
VP, Technical Integrations
TRKKN US, the author of this Guide

WHAT IS GOOGLE TAG GATEWAY?

Consider your website's data as a fleet of delivery vehicles trying to reach Google's data center.

Currently, these vehicles carry out of state license plates (third-party Google domains), which causes them to be viewed with suspicion by security checkpoints (browsers, ad blockers, and privacy filters). This leads to delays and denied entry resulting in a loss of critical conversion data. GTG addresses this by issuing an Official Resident Sticker (a first-party sub-domain like analytics.yourbrand.com) to the vehicles.

When they approach the security gates wearing the brand's own resident sticker, they are instantly recognized as trusted insiders, traveling right through without being stopped. GTG doesn't change the vehicle or the cargo (the data); it simply provides the necessary local license plate, effectively making Google's tags a trusted, first-party part of the client's own domain, so signal that consented users have agreed to share is collected reliably, rather than lost to technical blocking giving media algorithms the real-time data needed to optimize ROAS.

What does GTG look like in practice

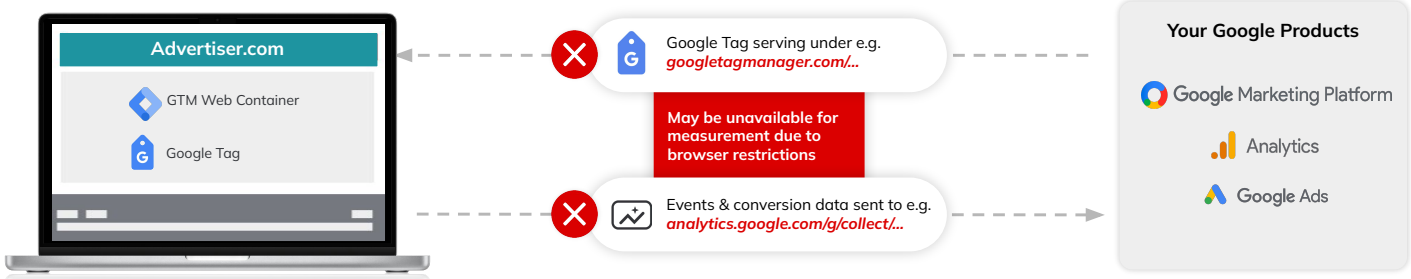
As illustrated below, on a standard website like **Advertiser.com**, a browser makes third-party requests to domain like **googletagmanager.com**. Browsers and privacy tools are more likely to block these external requests or limit their cookie access.

With GTG, you configure a first-party endpoint to handle these requests instead. This could be a subdomain like **metrics.advertiser.com** or a same-origin path such as **advertiser.com/metrics.**

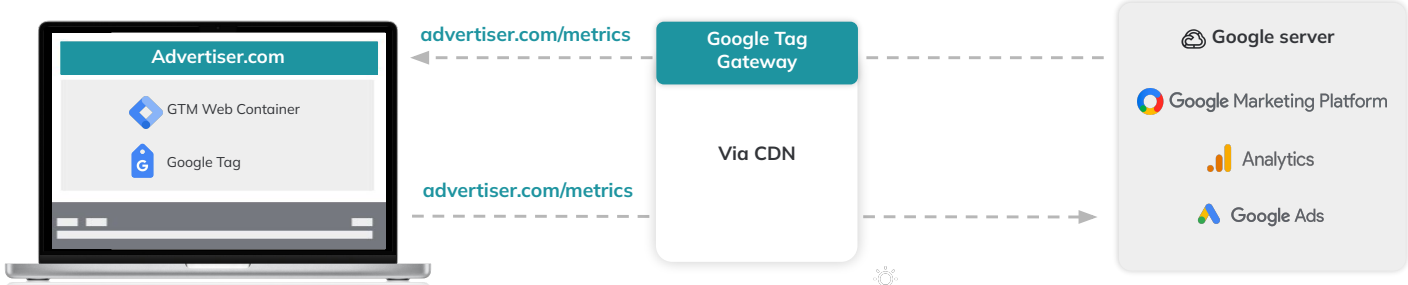
Many businesses already use a Content Delivery Network (CDN) – a global system of servers that improves website speed and security by caching content closer to end-users. Because a CDN sits between the user and the website's origin server, it is perfectly positioned to assist in this process.

In this case, your CDN intercepts this request. It then fetches the necessary script from Google's servers and passes it along to the user, making it appear as if it came directly from **Advertiser.com**. To the browser this is a trusted, first-party request. This helps ensure your tags fire as intended, leading to more reliable data collection.

Traditional 3rd Party Setup



1st Party Setup With Google Tag Gateway



WHAT PROBLEM IS GTG SOLVING?

Increased privacy measures by browsers and the widespread use of ad blockers have had an increased impact on a brands ability to accurately measure media investment outcomes. These technologies often block or limit the functionality of third-party tracking scripts, leading to incomplete and inaccurate data for marketers.

This can lead to:

- **Inaccurate Conversion Tracking:** Difficulty in attributing conversions to the correct marketing campaigns.
- **Shrinking Retargeting Audiences:** Fewer users being added to retargeting lists due to blocked tags.
- **Degraded AI & Bidding Performance:** Missing user signals weaken automated bidding models (tROAS/tCPA), driving up acquisition costs.

GTG aims to mitigate these issues by making tracking requests appear as if they are coming from the website's own domain, which are less likely to be blocked.

How GTG Supports Google Privacy Features

GTG fully supports both Consent Mode and Restricted Data Processing because it simply routes data through your domain without altering how Google's privacy settings work. All of your existing consent rules can remain active and enforced.

One important nuance: GTG faithfully passes through whatever consent and Restricted Data Processing settings you've already configured – it does not validate or correct them. If your consent setup or cookie classification is misconfigured, GTG will carry that misconfiguration with full fidelity. **Getting the consent architecture right is a prerequisite, not something GTG solves for you.**

How GTG Helps You Build a Stronger Data Foundation for Your Marketing

Improved Data Accuracy

By reducing the number of blocked tracking requests, you can achieve more complete and reliable data, leading to better insights into user behavior and campaign performance. Some advertisers have reported up to an 18% increase in observed conversions.

Enhanced Conversion Tracking

More accurate data allows for better attribution and optimization of your Google campaigns, potentially leading to a higher return on ad spend (ROAS) or an increase in trackable leads.

Enhanced Security & Data Privacy

By routing tag requests through your own domain or CDN, you gain greater control over network traffic, aligning with strict enterprise compliance standards while reducing reliance on third-party scripts.

Simplified Setup

Compared to a full sGTM implementation, GTG is generally easier and less expensive to set up, especially with the automated CDN integrations.

THE GTG IMPLEMENTATION ARCHITECTURE – WHICH ONE IS RIGHT FOR YOU?

There are a few ways to implement GTG, depending on your existing infrastructure and needs:

Cloudflare/Akamai 'One-Click'-Integration 1

By increasing the quantity and quality of the captured signals, you can achieve more complete and reliable data, leading to better insights into user behavior and campaign performance. Some advertisers have reported up to an 18% increase in observed conversions.

Best for → organizations using a single Google Tag Manager, who want the fastest path to improved measurement and signal resilience.

Manual Setup on other CDN 2

If you use a different CDN or a load balancer, you can still set up GTG, but it requires a manual configuration. This involves setting up routing rules within your CDN to forward requests from your designated tracking path to Google's servers.

Best for → organizations using a CDN other than Cloudflare or Akamai that want the benefits of GTG and are prepared for a more hands-on implementation.

Load Balancer 3

In scenarios where a traditional CDN is not in use, a load balancer (e.g. F5, NGINX, AWS Elastic Load Balancing etc.) can also be configured to enable GTG. Similar to the manual CDN approach, this involves creating routing rules on the load balancer.

Best for → organizations with custom infrastructure or load balancer setups that require greater technical flexibility while maintaining the advantages of GTG.

Server-side GTM (sGTM) 4

While GTG is often positioned as a simpler alternative to sGTM, it can also be used in conjunction with it as a hybrid solution. In this setup, the sGTM container can be configured to use the GTG setup, providing a more robust and flexible first-party data collection pipeline.

Best for → mature organizations managing multiple GTM containers, non-Google platforms such as Meta and TikTok, or advanced data processing and enrichment requirements.

THE GTG LIMITATIONS

GTG has several important limitations that must be considered before implementation.

- **Google-specific:** The gateway only works for Google tags (GA4, Google Ads, and GTM). Other analytics tags, such as Meta, TikTok require a different approach.
- **"One-Click" setup constraints:** For sites on Cloudflare or Akamai with a single GTM container, GTG is enabled through an automated, near "one-click" integration. The CDN is configured to route Google tag requests through your own domain with minimal manual setup — the fastest path to first-party data recovery.

- **GTG is not a complete ad blocker solve:** While GTG helps mitigate browser-level tracking prevention (like ITP), it is not a guaranteed solution against all ad blockers. More sophisticated blocking tools may still identify and intercept the data flow to Google's servers.

- **No Data Transformation:** Unlike a full sGTM implementation, GTG acts only as a proxy. It does not allow you to modify, enrich, or control the data being sent to Google's platforms.

- **GTG requires working knowledge of and access to CDN** or load balancer configurations.

SETUP CHANGES REQUIRED FOR A GTG IMPLEMENTATION

To implement GTG, several specific changes are required across your technical stack. These steps ensure that the gateway is not only established but also actively used by your Google tags.

- You will need administrative access to both your GTM (or Google Analytics) account and your website's CDN, such as Cloudflare or Akamai.

- For those using CDNs without an automated "one-click" integration, technical expertise is required to manually configure the necessary routing rules that forward requests to Google.

- The GTM or Google tag snippet on your website must be updated. This change points your site to load the GTM script from your new gateway path instead of from Google's default domain.

- Critically, you must also update the configuration within GTM itself.

  This involves adding a specific parameter, typically *server_container_url,* to your main Google Tag (for GA4) and your Google Ads tags. This parameter's value should be your new gateway domain. This step tells the tags to send their measurement data through your gateway. If this is not done, the gateway will be active, but no data will actually flow through it.

Note on Exceptions

Even with a GTG in place, you may notice some direct calls to Google domains.

For instance, a call to **googletagmanager.com** containing the *gtg_health* parameter is a periodic health check to ensure the gateway is active and functioning correctly.

Additionally, requests to domains like **ade.googlesyndication.com** are expected when remarketing features are enabled in your Google tags, as this is part of the infrastructure for Google's advertising network.

TRKKN Clients' Success Stories

Client, Telecommunications

18%

Increase in conversion events in Google Analytics with GTG implementation via sGTM container

Client, Travel & Tourism

11.7%

Increase in Google Ads Conversions after GTG implementation via sGTM

Client, Manufacturing

79%

Reduction of analytics-related manual tasks thanks to a streamlined GTM setup with the TRKKN Enhanced Tagging plugins.

THE GTG JARGON BUSTER

PRODUCT	WHAT DOES IT DO?	THE BUSINESS IMPACT
Google Tag Gateway (GTG)	A deployment option that routes Google tags through a client's own domain or CDN rather than Google's public servers.	Data Recovery: Bypasses browser tracking preventions and ad-blockers by establishing a first-party tracking footprint, restoring lost conversion data.
gtag.js	The specific JavaScript API framework that runs underneath Google's tagging infrastructure to collect and send event data.	Standardization: The underlying technology that ensures different Google platforms (like Ads and GA4) speak the exact same language on the page.
Enhanced Conversions (EC)	A feature that captures first-party user data (like phone numbers or emails) at the point of conversion, securely hashes it, and sends it to Google.	Algorithmic Lift: Directly improves Google's Smart Bidding AI by increasing cross-device match rates, which optimizes ad delivery and lowers CPA.
Server-Side GTM (sGTM)	A dedicated cloud-hosted server architecture that intercepts website data, processes it server-side, and routes it to various destinations.	Total Control & Privacy: The ultimate data fortress. It removes heavy tracking code from the browser and allows strict data compliance filtering before data leaves the brand.
One Google Tag (ogtag)	A single, unified JavaScript code snippet deployed on a website to act as the central wrapper for Google measurement tools.	Efficiency: Streamlines website setup by replacing multiple fragmented tracking codes, making it faster to deploy new features.

Build an AI-ready Data Foundation for Marketing

As privacy standards evolve and browser restrictions continue to impact data collection, reliable measurement has become a competitive advantage. Google Tag Gateway offers a practical path to stronger first-party data collection, but only when aligned with the right technical architecture.

If you're ready to evaluate your current setup, recover lost conversion data, and create a measurement strategy that supports future growth, we're here to help.

Contact our experts to discuss your roadmap:

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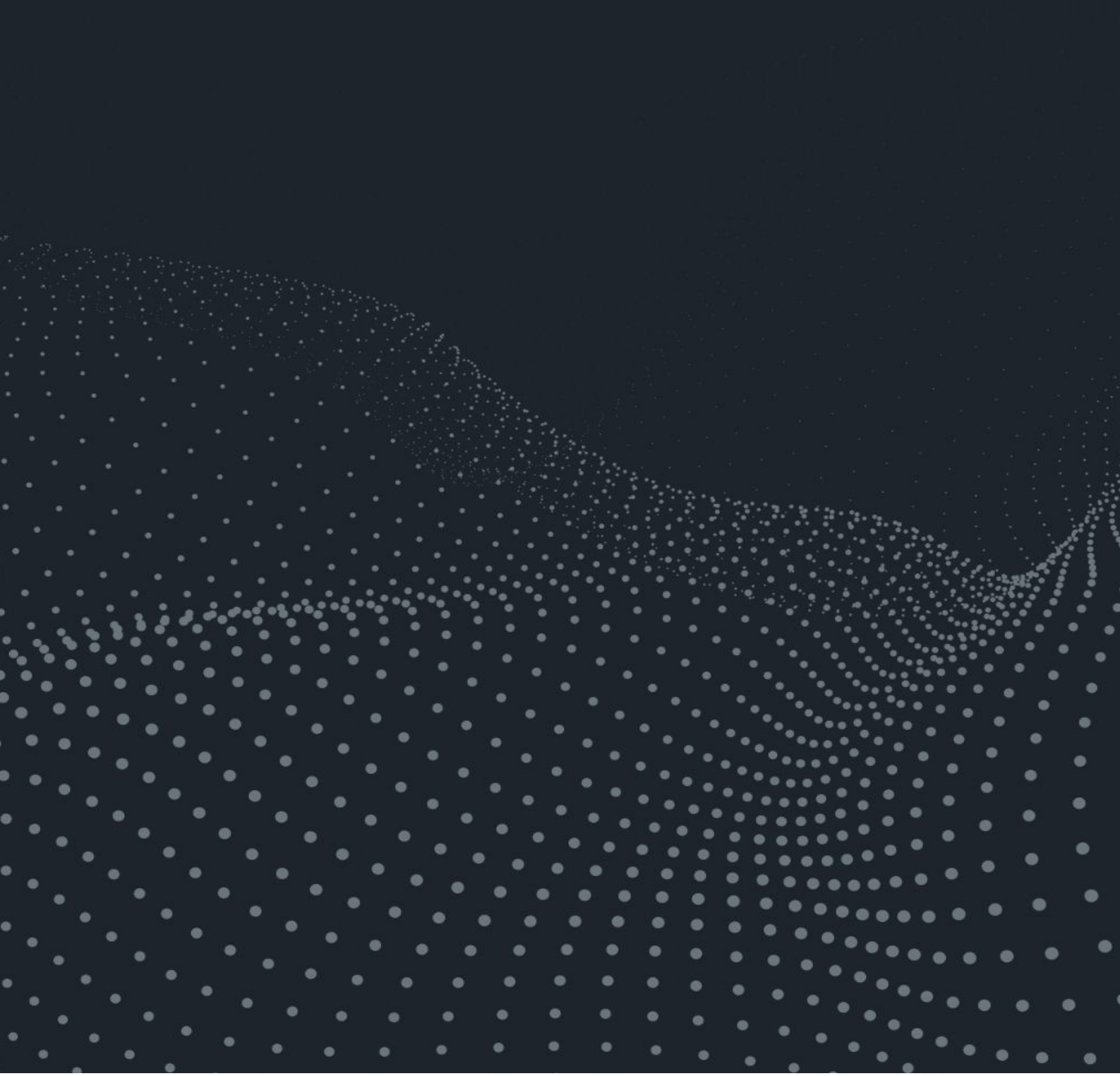

TRKKN

TRKKN is a full-service provider of Analytics, Marketing, Cloud & AI Technology, and Digital Experience Optimization. As one of the leading Google Marketing Platform Sales Partners and Google Cloud Premier Partners, TRKKN enables businesses to drive business outcomes through AI-powered digital transformation and marketing technology. Operating in multiple locations worldwide, TRKKN supports leading brands across industries in leveraging the Google tech stack and beyond to advance digital maturity in an AI-driven and privacy-centric world.

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Disclaimer: This guide is for informational purposes only and does not constitute professional or legal advice. Implementation of any mentioned solution and related strategies should be assessed based on your business needs and compliance requirements.

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