

Tsymmetry At A Glance

We are a Technology & Management Consulting Firm focused on the International Security & Public Safety Sector

We Deliver Mission Critical Support To:



- U.S. Department of State (DOS)



- U.S. Department of Homeland Security (DHS)



- Internal Revenue Service

Exemplary
Performance Ratings

Recognized by DOS
for Delivery Excellence

Focus on Public Sector
Return on Investment
(ROI) Resulted in
Multi-Millions of
USG Dollars Saved

Contract Vehicles

GSA IT70

GSA VETS 2 (Alliant SB CTA, LLV JV)

DHS EAGLE II

Department of State IT Services

- Top-Secret Facility Clearance
- CMMI ML3 (Services)
- ISO 9001, 20000-1, and 27001 certified

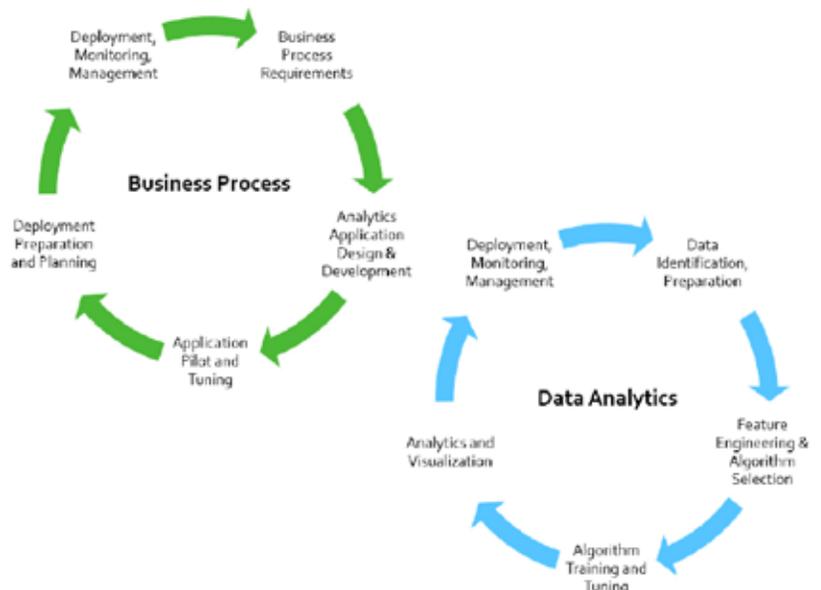
Good Government, Accelerated

With increasing operational demands and constrained budgets, our clients require actionable insights to optimize mission effectiveness. As an extension of the services we deliver, we provide our clients with the ability to seamlessly integrate big data analytics into high-impact business processes to accelerate insights, enhance decision-making, and improve predictive capabilities, resulting in Good Government, Accelerated.

We are directly impacting Federal mission effectiveness by leveraging analytics to correlate significant events, discover meaningful trends, and conduct what-if analyses in a cloud-hosted, standardized data processing and visualization platform. Our services are currently driving tangible outcomes for our clients at DOS & DHS, optimizing their operations. We have coupled our technical and domain expertise with a cadre of boutique data science firms to address our clients' most complex business challenges. We bring the right combination of experience, services, and tools to inform and sharpen daily operational decisions with timely, cost-effective, intelligence derived from big data analytics.

Our Approach

Our business process experts, data analysts, and data scientists work with our clients up front to conduct exploratory analyses, scope out areas for improvement, and identify appropriate analytics applications. We work with our partners to gather selected data into our tCloud environment, where it is prepared and enriched for analysis. We are cloud agnostic and have flexibility in platforms depending on our client's requirements. Throughout the process, our analysts apply leading feature engineering techniques to mine, map, graph, and transform data into insights. Our in-house application software engineers develop user-friendly, device independent applications that enable end users to access insights with minimal training and without requiring full-time data science support.



Our Integrated Analytics Services



Data Visualization

- Pattern graphs
- Intelligence Dashboards
- Predictive & Historical Analytics



Applied Data Science

- Data Analysis
- Machine Learning
- Artificial Intelligence



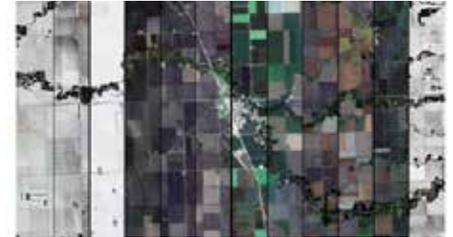
Full Service Hosted Platforms

- Data Subscription Services
- Custom Machine Learning Apps

Sample Case Studies

Leveraging Advanced Analytics in Drug Eradication

At one Embassy and its Forward Operating Locations, we delivered a Geographic Information System to provide real-time viewing of tactical situations in support of their spray operations. In collaboration with our partners at Descartes Labs, we are developing a Proof of Concept to demonstrate how effective enhanced geospatial analytics will be in assessing eradication results. The addition of an intelligence Machine Learning layer will further enable mission critical data analysis.



Supporting Diplomacy Through Applied Machine Learning

US Code mandates a single, centralized records management archive on all arms control treaties and agreements in existence on or after January 1, 1990. These historical artifacts must be organized, catalogued, and made fully accessible for the life of the Republic. Working with Infinia ML, we are applying Machine Learning algorithms to 50k+ files to enable more robust search capability, along with analytics and visualization of trends, sentiments, and other key metrics to help Diplomats make decisions based on the totality of these artifacts and associated communications.

Increasing Global Supply Chain Efficiencies

For one global client we are implementing a new management information system to modernize how they execute their maintenance, repair, and overhaul activities along with critical flight operations, safety, and training functions. The new solution provides comprehensive management and reporting tools to enable real-time program intelligence reporting and status. As part of our implementation, we plan to leverage machine learning to conduct a predictive maintenance pilot to inform future maintenance failures before they occur, resulting in proactive workforce planning and improved quality control procedures.

Protecting Our Nation's Infrastructure

Working in partnership with Descartes Labs, we will be using geospatial analytics to monitor the risk profile of airports around the country. We project this will result in a 20% reduction in labor hours saved through automation and increased assessment quality. With the addition of Machine Learning, the agency can identify and qualify changes to imagery of airports and receive notifications of changes in topography that represent a potential change in airport risk profile.



Key Partners



**Descartes
Labs**

Founded by a team of scientists from Los Alamos National Lab, Descartes Labs helps customers build geospatial predictive analytics on a global scale.



Born out of Duke University, Infinia ML builds machine learning-powered applications that help businesses analyze documents, extract text, and audit AI systems.

To discuss how Tsymmetry's Integrated Analytics capability can benefit your agency, please contact Scott Pickett and visit us at:

www.tsymmetry.com

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