Data Analytics Made Easier

In the age of the global digital economy, data or, specifically, the actionable intelligence it contains, is a vital resource. Everything from legacy transactional systems to social media, mobile devices, and sensors produce data. And no industry on the planet produces and consumes more data than government. From evaluating education and managing public health to running the engines of the economy, protecting the environment, and managing geopolitical relations, government agencies must deal with massive amounts of data. Regardless of their specific missions, government agencies have come to see data analytics as a critical priority that, if applied properly, can create the operational insights needed to validate assumptions, evaluate results, inform decision making, and enhance service delivery. While the value of data analytics maybe understood, many agencies are challenged with enabling the skills necessary to fully take advantage of their data resources.

Creating an Analytic Culture in Government

Easy and timely retrieval and analysis of related and unrelated information is crucial for government to meet and improve mission requirements that are varied across agencies. Data continues to be generated and digitally archived at increasing rates. This growth is driven by Open Government initiatives, sensors, citizen interactions, and program transactions. In the United States, over twenty states have appointed Chief Data Officers (CDOs) and the US Federal Government has officially established the role of the CDO within agencies to help guide the digital transformation and analytics culture needed to propel their organizations forward.
Discover + Collaborate

There are core elements to analytic success in every industry, and government is no different. Simply finding trusted data and analytic assets can derail the process immediately.

IDC research shows that analysts spend 37% of their time searching for the right data or asset needed. The proliferation of both data and analytic assets like reports, visualizations, dashboards, macros, or even analytic workflows compounds the challenge. Additionally, the rise of digital interactions over the last decade has increased the importance of data security, from limiting or restricting access, to simply understanding the metadata or lineage of analytic assets.

Alteryx Connect helps users search for and find the right analytic assets at the right time. It combines data cataloging and powerful metadata with human insight to document the types of information your data contains, where the information comes from, who is using it, and how it is being used. In addition, a business glossary provides users with a common business language when trying to work with data from multiple systems, making Medicare, clinical, and supplier data easily understood and reusable. These functions are done through a collaborative environment leveraging social interactions and organizational knowledge, all in a governed environment ensuring IT compliance.

Prepare, Analyze, and Model

As data volumes and systems of records continue to expand, healthcare organizations are tasked to work with multiple sources of data, each in different formats, structures, and quality. The days of spreadsheets and manual processes are a thing of the past. Organizations need to quickly gain access to clinical, business, and operational data and blend it with third party or partner data to make business-driven decisions.

Alteryx Designer provides necessary self-service data analytics mechanisms for analysts to prepare and blend data from all relevant data sources. Using an easy to use drag-and-drop workflow interface, users can leverage built-in tools to quickly cleanse, prep, and blend data without having to write code. The same analysts can enrich data with packaged third-party demographic, firmographic, and spatial data. Leverage the repeatable workflow to automate and output results to reports, Excel, and leading visualization tools.
Alteryx Designer empowers users to understand the health and hygiene of their data at every step of the analytics process with in-line data profiling called Visualytics. Visualytics helps analysts make the next decision with their data: are there missing values that need to be imputed, are there any outliers or anomalies, can this data be enriched further? In addition, the same drag-and-drop environment provides a code-free environment with powerful tools for statistical, predictive, prescriptive, and spatial analysis, while also enabling code-friendly analysis from R and Python. This allows organizations and agencies to take their analytics to the next level.

Share, Scale, and Govern

Delivering value across an organization at scale and in a controlled environment is a crucial component for government organizations. The requirements and restrictions around reporting and data access mean that protocols need to be put in place to ensure that all regulatory compliances are met. To scale these requirements, systems need to be in place for IT to manage the access and distribution of analytic jobs and the automation of reports to serve the needs of many people from across their organization.

Alteryx Server provides the foundation for organizations with the scalability, automation, and governance required across the analytics journey. It enables collaboration across teams and lines of business through sharing and publishing workflows, macros, and reports. It also provides automation and scheduling of analytics process and reports to improve efficiencies, all in a governed environment that provides role-based access and version control.
Deploy + Manage

For government organizations, being able to understand in near real-time the situational readiness of assets, the deployment of resources or hidden risks within financial information are just a small sample of how improving analytics capabilities can provide a huge value to agencies and the people they serve. Taking advantage of self-service analytics across the enterprise will enable agencies to leverage the insights contained in data to optimize operations, service delivery, and mission effectiveness.

Alteryx Promote makes it easy for enterprises to deploy, manage, and monitor production-based predictive and machine learning models. Quickly deploy analytic models whenever and wherever you choose, real-time or in batch, on-premises or in the cloud. Embed Alteryx, R, and Python models directly into production applications via APIs and actively manage and monitor the performance of operations, resources, and outcomes across the mission of the agency.

Alteryx provides government analytic and business leaders the ability to transform their organizations through powerful analytics and solve complex business problems like:

- Optimizing operations and client services, such as call center support based on resource utilization and use preferences.
- Tracking, monitoring, and forecasting maintenance needs and costs needs across programs for future budgeting adjustments.
- Assessing the cost of service and quality of delivery across the ecosystem by government and non-government providers.
- Inform the development, quality, and range of service offerings based on local population needs.
- Forecasting future workforce requirements by analyzing utilization patterns by facility, caseload, or prediction of demand.
- Optimizing resource deployment in response to crime, emergency management, or situations base on modeling.
- Assessing financial and operational risks of regulation changes, while complying with regulatory requirements.

Alteryx offers an end-to-end analytics platform that empowers government agencies to break data barriers, deliver insights, and experience the thrill of getting to the answer faster. Learn more about how we are transforming government organizations, by visiting our website www.alteryx.com/public-sector.