

DATA ANALYTICS



OUR CLIENTS DRIVE REAL-WORLD CHANGE.
WE ACCELERATE IT.

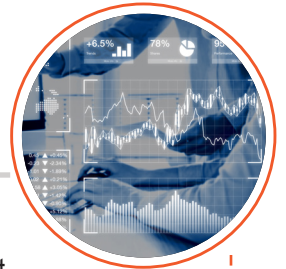


OUR COMPANY

Bizzell US (Bizzell) is an SBA HUBZone-certified, minority-owned consulting, strategy, investment and technology firm that designs innovative solutions to help build healthy, secure, connected, and sustainable communities in our nation and around the world. We leverage the combined experience of our diverse subject matter experts to develop data-driven, research-informed answers to the world's most complex challenges.

OUR CAPABILITIES

Bizzell's data analysts, statisticians, and data visualization experts translate and harmonize complex data into actionable insights that drive value and achieve results. Using cutting edge algorithms and programs such as BigML, Natural Language Toolkit (NLTK), SAS, TableauR, and Excel, we recommend clear paths to favorable outcomes. Our practices and solutions help clients restructure activities, maximize resources, increase productivity, and meet goals.



- **Data Driven.** Bizzell leverages data to discover patterns, correlations, and other core insights to drive actions and recommendations tailored to client needs
- **Research Informed.** Bizzell has extensive experience employing evidence-based research to understand and implement ethical, scientific approaches to build knowledge, create products, and disseminate credible information
- **Innovative Solutions.** Bizzell develops modern, cutting-edge, and sustainable ideas across various disciplines that are cost-efficient and agile—helping clients move beyond the norm and embrace technology that improves outcomes

Foundational

- Sample Design
- Baseline Studies
- Gap Analysis & Benchmarking
- Instrument Development
- Quantitative & Qualitative Research
- Data Analysis
- Program & Sector Assessments

Data Collection & Reporting

- Quantitative & Qualitative Data Collection & Reporting
- Data Cleaning
- Data Migration & Integration
- Data Validation & Audit
- Data Visualization



Evaluation

- Design & Implementation
- Indicator & Frameworks Development
- Performance & Impact Evaluations
- Cost-saving Analysis

Monitoring & Management

- Project-level Monitoring
- Web-based Monitoring Systems
- Integrated Knowledge Management
- Quality Assessments
- Performance Measurement
- Web Metrics/SEO
- Capacity Building & Training
- Results-oriented
- Management Training

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OUR SUCCESS STORIES

CENTERS FOR MEDICARE & MEDICAID SERVICES (CMS) Data Validation and Administrative (DVA)

As the DVA contractor, Bizzell supports CMS's National Quality Improvement Innovation Contractor (NQIIC) community, including hospitals, nursing homes, community coalitions and opioid prescribers, by developing and adapting materials and methods to meet the initiative's goals. We support the spread of evidence-based best practices on a national scale by coordinating closely with Quality Improvement contractors and fellow support contractors, and we use data collection, analysis, visualization, validation, and ad-hoc reports to support CMS. Bizzell provides monthly progress reports on NQIIC goals, using trend analysis, tracking spreadsheets, cost-savings reports, and aggregate progress measure reports. Example products include:

- The monthly Progress Report of NQIIC Goals (PRoNG), with data processing for rapid delivery of results using SAS Viya, measure development, and a user-friendly reporting tool
- Up to 25 nursing home COVID-19 data visualization ad-hoc requests, with about 50 versions per month of each request
- Dashboards using thousands of variables to track referrals among 12 contractors

CENTERS FOR MEDICARE & MEDICAID SERVICES (CMS) Analyze and Assess Methods, Data and Case Mix Assessment Information for the

Monitoring and Refinement of Inpatient Psychiatric Facilities Prospective Payment System (IPF PPS) Bizzell supports the CMS prospective payment system (PPS) for inpatient psychiatric facilities (IPFs) by updating data and re-running regression analysis using more current data, analyzing outcomes, providing recommendations to refine/monitor the IPF PPS, and supporting CMS in data analysis for selected studies. In addition to the regression analysis:

- Bizzell is updating the case-mix adjustments to include relevant patient-specific variables for future data collection and system refinements to classify psychiatric patients in a manner that reflects the vast differences in patient resource use and costs across psychiatric facilities and completing additional ad-hoc data requests

CENTERS FOR DISEASE CONTROL AND PREVENTION (CDC) Division of Heart Disease and Stroke Prevention (DHDSP) Public Health Professional Support Services

Bizzell supports CDC DHDSP public health and epidemiology objectives through geospatial/analyst, mathematical statistician, and health services/research services. Bizzell provides statistical analysis, interpretations, and revisions to heart disease and stroke prevention materials, including materials for data trends and maps, Coverdell Stroke Registry, Million Hearts®, Interactive Atlas, Healthy People 2020, and the Sodium Initiative. Statisticians provide methods, analyses, and interpretation for publications in peer-reviewed journals (such as the CDC Morbidity and Mortality Weekly Report) in support of DHDSP priorities using data sets including NHANES, CMS, BRFSS, NVSS, Medicare, Market scan, etc. Specific statistical analyses include:

- Characteristics and Trends of Proprotein Convertase Subtilisin Kexin type 9 (PCSK9) Inhibitor Prescription Fills in the United States
- Trends and Characteristics of Blood Pressure Prescription Fills During the COVID-19 Pandemic in the United States
- Trends and Characteristics of Statins, and Augmented Statin Therapies for Lowering Low-Density Lipoprotein Cholesterol

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