



# Data Analytics

Benefitsolver's analytics engine, powered by Benefits Science Technologies (BST), a leading provider of healthcare and insurance data analytics solutions for enterprise customers, leverages BST's academically-supported technology for health plan optimization. Founded by Massachusetts Institute of Technology (MIT) scientists specializing in data analytics, BST uses its proprietary Robust Optimization algorithm to combine employers' existing healthcare with predictive modeling to provide analytics that stratify risk and identify cost drivers to produce key insights for your benefits strategy.

## The BST Platform is:

- ▶ **Connected.** BST gathers all healthcare-related data in a single, secure warehouse, breaking down traditional silos – medical claims, prescription claims, biometrics, plan data and expenses, wellness programs, and eligibility – allowing analysis of all benefit plan components. This yields a clear, customized view of how health plans are performing according to cost and clinical trends.
- ▶ **Automated.** The Robust Optimizer replaces cumbersome spreadsheets and man hours with a combination of supervised and unsupervised machine learning algorithms. The system is fully accessible with monthly reports generated from data no more than two weeks old to highlight areas of concern, provide an accurate assessment of plan performance, and enhance the ability to manage plans more responsively.
- ▶ **Predictive.** Through BST analytics, employers can identify future risk, cash flows, clinical risk, disease progression, and more. This allows plan sponsors and administrators to improve their understanding of what has happened, and how to predict important future trends. Its optimized system is 10 percent to 15 percent more accurate than actuarial science techniques.
- ▶ **Prescriptive.** BST takes predictive modeling a step further. Based on a predetermined medical spend goal, Robust Optimization creates millions of plan scenarios based on billions of calculations to recommend the benefits program that best reaches plan objectives. The system recommends medical plan designs tailored to the specific healthcare needs of the employee population, taking into account future predictions about population health and financial shifts to contain costs and maintain quality of care and benefit levels.