TIBCO Spotfire Data Wrangling
Self-service data preparation for faster insights

BENEFITS

- Faster answers with easy access to data
- Better data and results with unified data preparation and analysis
- More efficient and streamlined processes with no back and forth between tools
- Agility and good governance with the best of both visual and model data preparation methods

Successful analytics depends on structured, accurate, and well-formatted data. Most analytic projects require that up to 80% of their time be spent wrangling data for the purposes of analysis because data is messy, contains errors, or is not organized for analysis. TIBCO Spotfire® uniquely offers inline data wrangling through a unified visual analysis and preparation interface to help you rapidly clean data while performing analysis.

DATA ACCESS MADE EASY

Getting data is the first step in analytics. Then as you begin to analyze and dig deeper for answers, it often becomes necessary to connect to and mashup information from a variety of data sources. Spotfire makes it extremely easy to connect to, blend, and clean data from relational and NoSQL databases, OLAP, Hadoop data stores, and web services. Connecting to cloud applications like Google Analytics and Salesforce.com is also seamless. Easy access to your data means you can get your answers faster.

A UNIFIED APPROACH: DATA PREPARATION AND ANALYTICS IN ONE TOOL

Spotfire provides a unified approach to data preparation. Data can be messy, disorganized, and contain errors. As soon as you start working with it, you see the need for new attributes, groupings, and calculations, and sometimes it's hard to understand what changes have already been made.

With Spotfire data wrangling, you can fix your data interactively while you analyze, eliminating the back and forth between data preparation and analysis tools. Spotfire empowers you to improve data quality and analytical results before you start, or while you're immersed in the analysis.

With other tools, data preparation requires moving back and forth between where data is cleaned and where it's analyzed. With Spotfire, these operations are unified, faster, and provide better results. You get a graphical record of the data operations that have been made and can easily validate the results of each operation, all within the same, streamlined Spotfire interface.

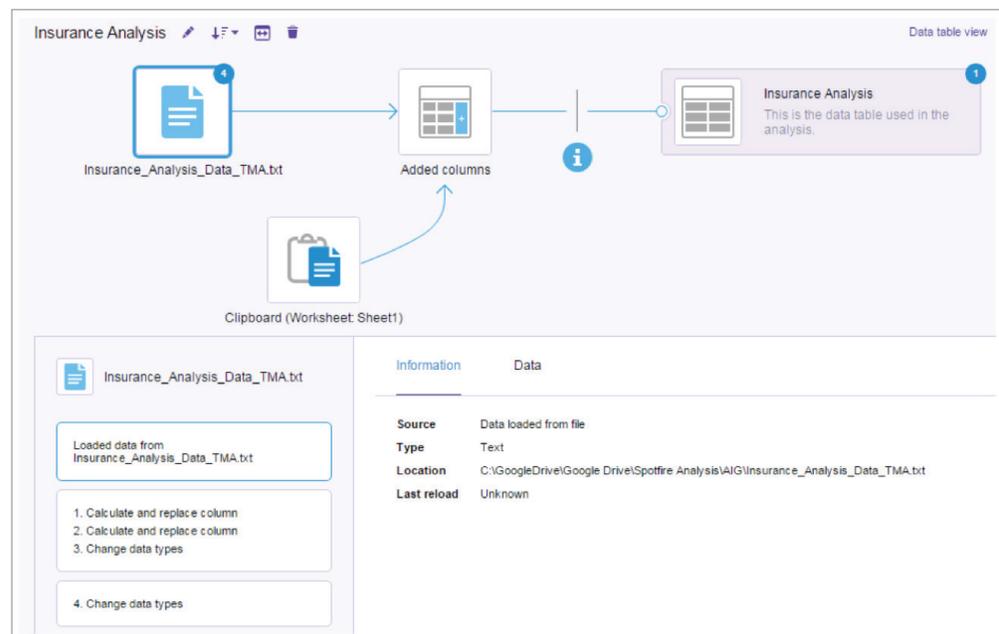## WRANGLING WITHOUT THE BACK AND FORTH

Spotfire provides data wrangling functions at your fingertips so you can easily make adjustments to the data without leaving your analysis:

- Unpivot unwieldy data in one-click
- Change the data order and categorization
- Change column names
- Group columns
- Change the data type
- Create new or split columns
- Calculate columns
- Fill empty values
- Format

THE BEST OF IMMERSIVE AND MODEL-BASED DATA PREPARATION

Data preparation is always needed before analysis, but it's almost never the case that you know what to do before you examine the data. As you make changes, it's important to validate them. With Spotfire, you can get a visual overview of data sources, connections, operations, and transformations in a simple schema diagram.

Whether you're cleaning and combining data from multiple sources, or enriching and transforming it, you can view detailed information about the data operations that have been made and can preview the results in graphical format using the built-in source view data panel. This clear and convenient schema diagram enables businesses to establish and manage best practice processes and stay agile without losing governance.

TIBCO Software empowers executives, developers, and business users with Fast Data solutions that make the right data available in real time for faster answers, better decisions, and smarter action. Over the past 15 years, thousands of businesses across the globe have relied on TIBCO technology to integrate their applications and ecosystems, analyze their data, and create real-time solutions. Learn how TIBCO turns data—big or small—into differentiation at www.tibco.com.