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DATA SHEET



USS Sim<sup>®</sup>

System Dynamics Simulation Suite

## PRODUCT BRIEF

**USS SIM systemic views allows to orchestrate simulated sets of given contextual models, and examine resulting insights for better understanding of all system dynamics key drivers.**

Government departments and agencies continually address issues that arise in a multitude of areas, including health care delivery, public policies, defence strategies, urban planning, natural resource management, and energy consumption. These issues often expand beyond the boundaries of a single department and require collaboration between several different departments and agencies on both federal and local levels.

USS SIM® offers the ability to create holistic system diagrams that can be simulated over time. This systemic view allows you to examine the system and its behaviours to determine where changes are beneficial and avoid decisions that cause a negative impact. With USS SIM®, you can easily create shared insight and communicate ideas that enables interdepartmental teams to understand all the variables that affect the system. Enhanced understanding helps ensure that decisions are fully implemented.

### Modeling and Simulation Platform

Building mental models is something we all do every day, and our brains are so good at it, we rarely recognize we are doing it. Simply put, mental models are abstractions of reality that we create and simulate to help make meaning out of experiences and help us come to decisions that inform our actions. For example, you are thinking about dealing with a co-worker on a project. That person is not physically in your head but you are able to think of certain aspects of them that fit the context and simulate "what-if" scenarios that help you come to conclusions for a best course of action.

"By building a computer model that matches our mental model, we are able to run simulations to see what the outcomes would be over time. In particular, this helps us understand how both feedback and action at a distance can lead to unexpected results."



Our simulation engine provides fast simulation times and allows storage of huge datasets. Very large models can be compiled in C for even faster simulation. The simulation platform allows the user to step forward at discrete intervals and make changes to model variables at each step. USS SIM® can also be run over a network allowing multiple users to interact with a single model. OmniSim's speed supports fast, interactive simulations and advanced, computationally intensive algorithms.

### Data Visualization Platform

Many organisations don't know how to go about making effective use of data visualization. Thankfully, as modern organisations become more and more invested in data-driven strategies, these various forms of data visualisation are becoming more widely used, and extremely valuable. But while being able to clearly visualize data is certainly an advantage, if that data is not accompanied by any informed conclusions, then it's only a single step up from raw information.

Tools with built-in intuitive analysis capabilities can help give context to the data being presented, and can take it a step beyond by showing the data behind the imagery. An effective data visualization software should, above all, allow organizations of all sizes to gather, evaluate, and express data logically and coherently.



### Data Management Platform

Our platform provides a single view of your data. It enables access to your data to help you develop detailed insights across thousands of important variables. You can use these insights to more effectively segment and analyse your data across dimensions. We also provide connectivity to various external data in text editors, or import from (or export to) database and spreadsheet applications.

Many input and output approaches are supported, including ODBC and tabular, relational and tidy data in a variety of file formats. With these data connectivity, our DMP could work in conjunction with other software on our suite to create a holistic overview of how the system behaves over time, and across dimensions.

