Aureum in the Field

Model Orchestration

USE CASE:

A multinational company is developing a complex, virtual industrial facility that exists as sophisticated 3D renderings and computational models. Multiple mathematical and behavioral engineering, operations, and economic models are used to optimize design, maximize efficiency and control costs. So many models are run in simulation outcomes that an enormous amount (multi-terabytes) of unstructured data is created. The challenge: How do you properly save and organize such a large amount of data?

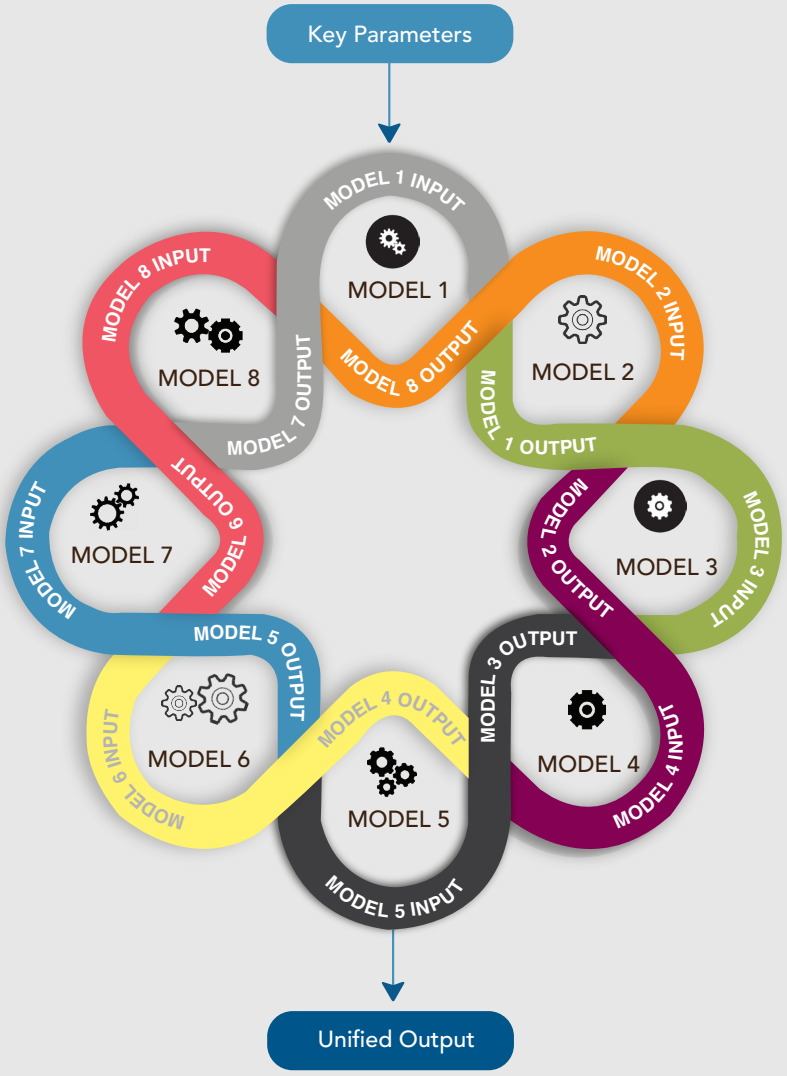
Each business discipline is operated by specialized work groups, often with offices and staff in disparate geographical locations. These work groups can't access all collaborative data sets with the most up-to-date information. Though each model drew on a significant amount of shared information, data had to be entered by individual work groups every time the model was run, wasting valuable time.

Aureum

SOLUTION:

Peaxy helps manage unstructured data at scale, including the aggregation of simulations, models and related data sets. Examples include models and simulations that predict performance, behavior, efficiency, cost, transients and economic value. Linking and orchestrating these key models into a unified master model provides radical improvements in efficiency by auto-mating several steps of the process, saving time and reducing errors. Aureum's patented technology enables work groups to access data sets across multiple sources and allows for accelerated optimization of designs, layouts and configurations.

Peaxy's model orchestration solution allowed the customer to greatly improve productivity by shortening iterative configuration cycles from weeks to hours. Commercial and application engineering teams can now rapidly address specific customer change requests and generate proposals in a fraction of the time it once took.



Future Benefits from Aureum:

- Enables sharing of existing simulations between remotely located organizations.

- Leverages performance by comparing actual telemetry to saved simulations.

- Fine-tunes model parameters to improve performance and facilitate design optimization.

Aureum is a scalable data access platform that aggregates and manages data, helps users find useful data, and preserves and protects that data far into the future. It is used across industries and markets because the enterprise's most important strategic advantage is its ability to make data-driven business decisions. Many businesses are looking for ways to make the best use of their unstructured data, often contained in crown-jewel data sets spread across many physical locations.

PEAXY