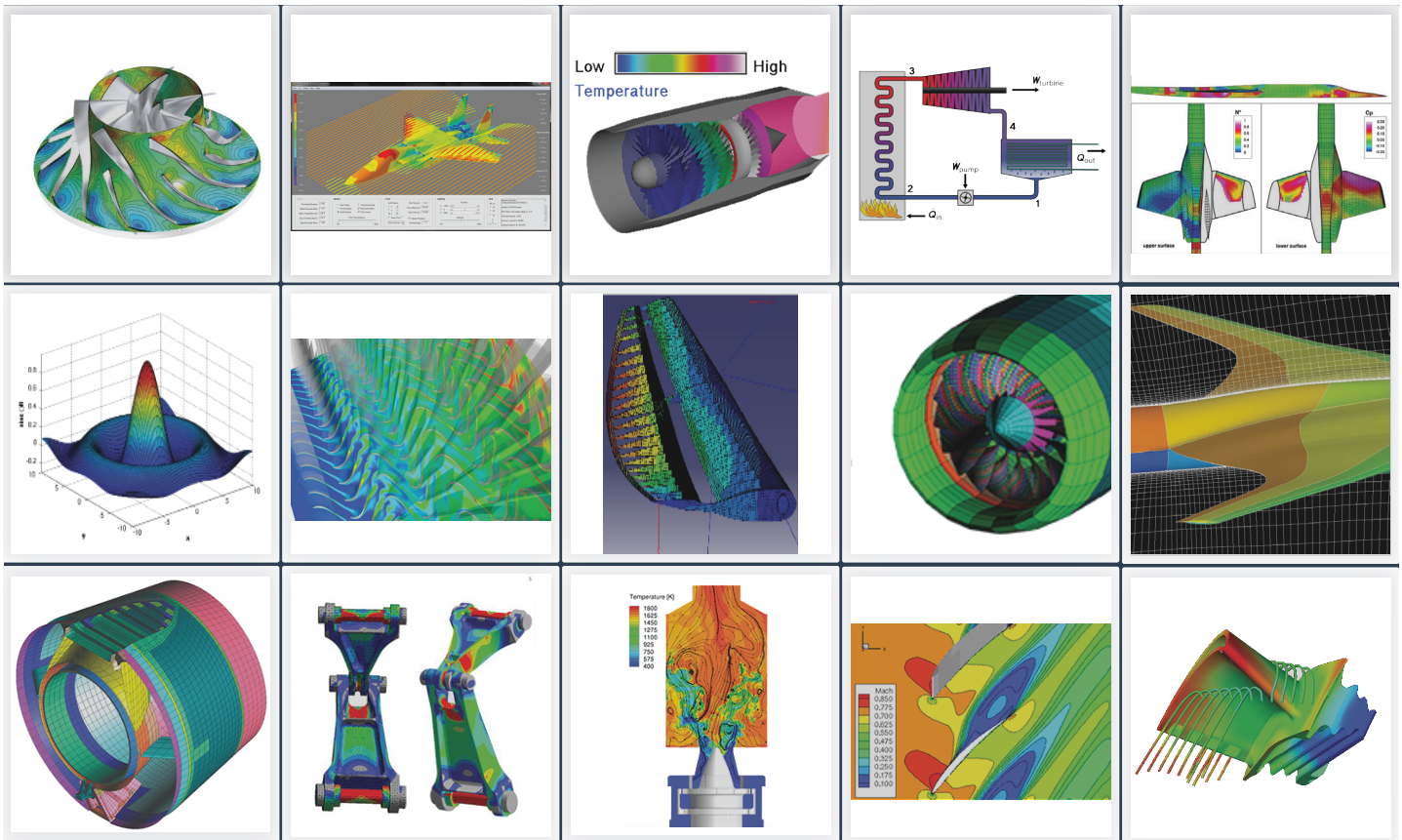# Model Management

USE CASE:

A major industrial company's research division wants to improve the operating efficiency of power generation units by 8 percent. Hundreds of models are used to optimize designs. Thousands of simulations are run with these models, creating large amounts of unstructured data. Often these simulations are not saved, or researchers can't locate the simulations when they need them.

Researchers rely on "tribal knowledge" rather than any sophisticated Find system to locate specific simulations or even summarized results. Scientists and engineers are forced to do extra work to get the data they need, lowering overall productivity. Even with the extra work, they lack the complete set of data needed to properly optimize designs and achieve product operating efficiency goals.
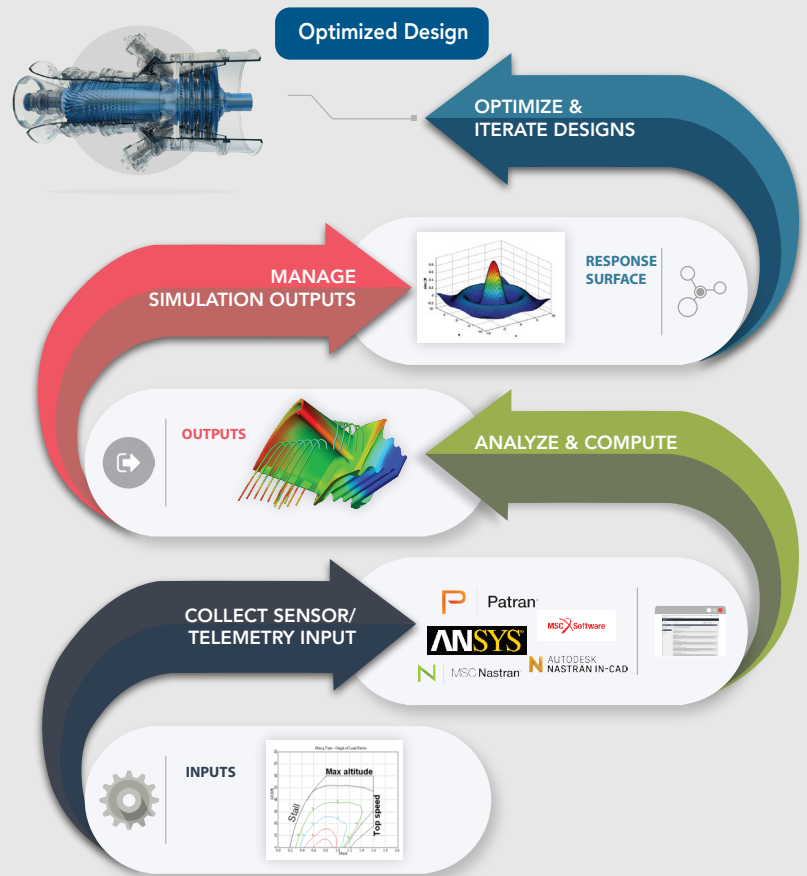

Aureum™

SOLUTION:

Aureum collects petabytes of model outputs, including associated input files, full simulation data and reported results.

It enables researchers to find existing data across multiple sources, regardless of where the data originated.

Aureum's Find application enables engineers and scientists to locate the most important simulation data sets to create response surfaces, optimize system designs, and track down the best component designs and contributing factors. This improves day-to-day operations and pushes optimizations beyond what was possible in the past.

Optimized Design

OPTIMIZE & ITERATE DESIGNS

MANAGE SIMULATION OUTPUTS

RESPONSE SURFACE

OUTPUTS

ANALYZE & COMPUTE

COLLECT SENSOR/ TELEMETRY INPUT

Patran
ANSYS
MSC Software
MSC Nastran
AUTODESK NASTRAN IN-CAD

INPUTS

Max altitude
Stall
Top speed

Aureum Benefits:

- Enables use of existing simulations in multiple research applications.

- Enables use of existing simulations between remotely located laboratories.

- Improves cycle time across research labs, for components as well as systems and product lines.

- Makes it easy to create references for best-practices and lessons-learned to share internally and externally.

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