

Ansys Solution for Hybrid Digital Twin

Increase Digital Twin Prediction Accuracy With Hybrid Analytics

Challenges in Creating a Digital Twin



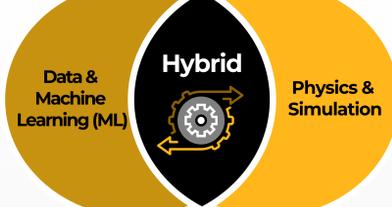
Digital Twin Goals: Accuracy, Time, and Cost

- Customers are demanding more from their products, pressuring manufacturers to produce faster, better, and more reliable designs
- Data and simulation approaches each make reasonable predictions, but also both face limitations



The Solution: Hybrid Digital Twins, the Best of Machine Learning and Physics

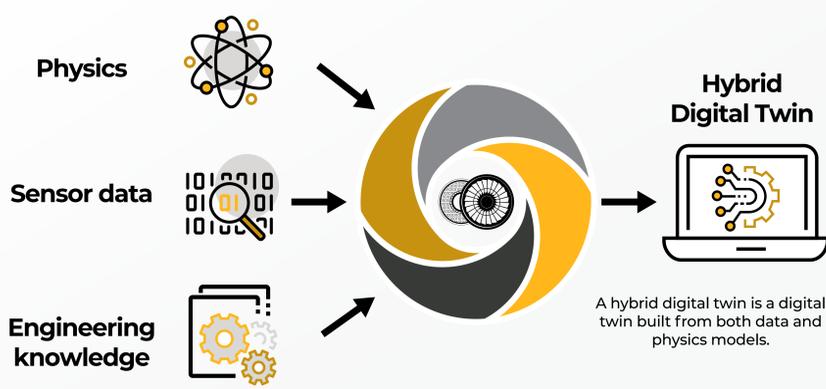
Create accurate, evolving digital twins with hybrid analytics



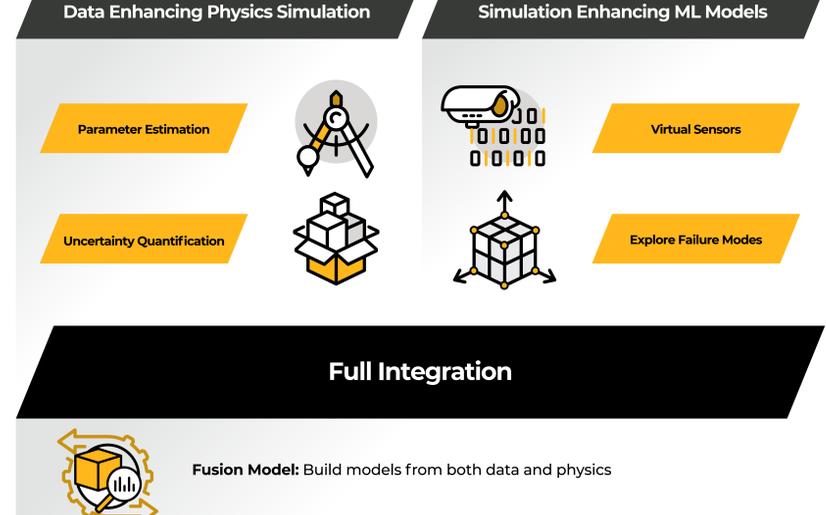
Hybrid Analytics is a toolset for combining data and physics modeling using machine learning techniques.

How Does it Work?

Combine data and physics to create the best possible digital twins

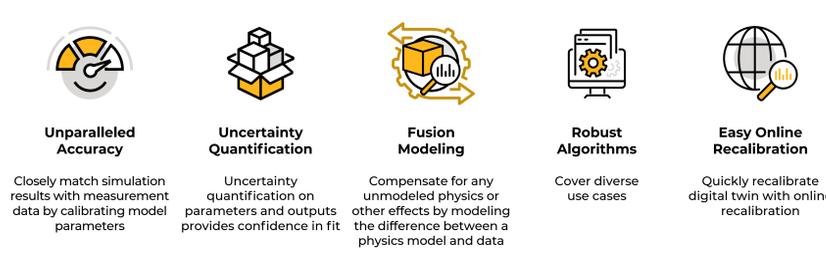


Hybrid Analytics Techniques



Hybrid Analytics Capabilities

Transform your operations with data-driven and simulation-based digital twin software

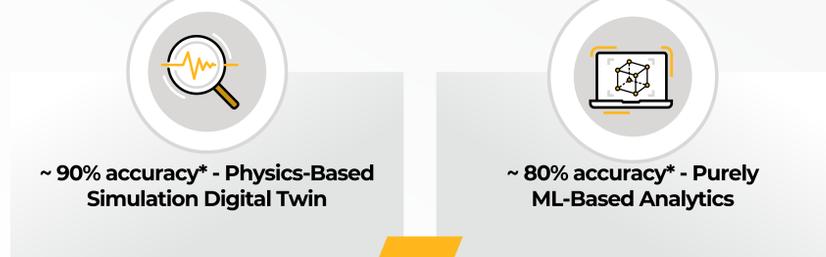


Hybrid Digital Twins Help in Four Key Areas



Hybrid Digital Twin: Combine ML-Based Analytics with Physics-Based Approaches to Create Accurate and Evolving Digital Twins

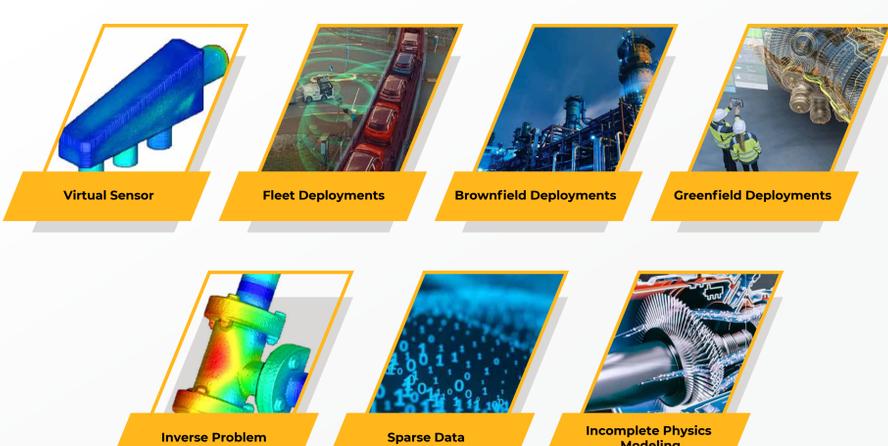
Using hybrid analytics techniques, the resulting hybrid digital twin is more accurate than if using either just data and machine learning of physics simulation alone.



~ 98% accuracy* Hybrid Digital Twin

* Based on a real-world customer case - (ML-based analytics combination with the physics-based approach)

Key Use Cases for Hybrid Analytics



Hybrid Digital Twin Key Benefits



Start your 30-Day Trial