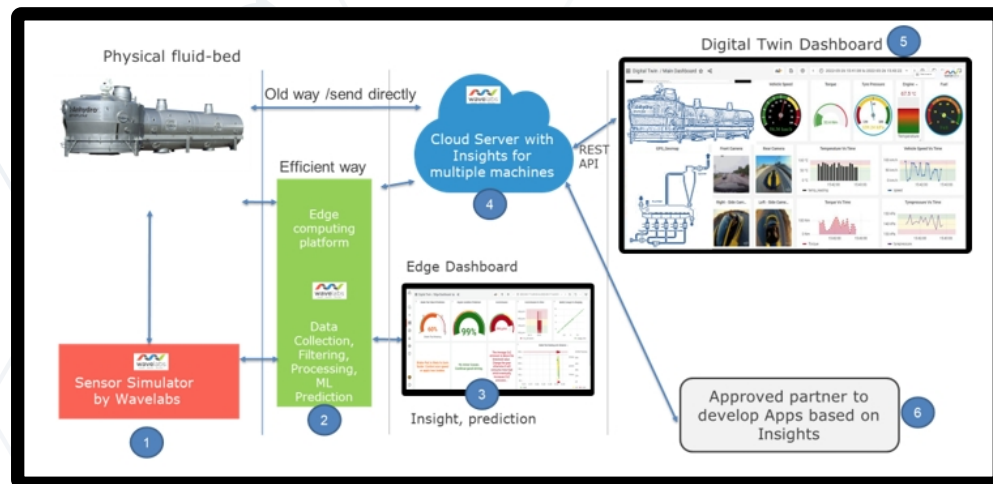


DIGITAL TWIN FOR MANUFACTURING

TECH STACK:

**React JS | Node JS | Grafana | Mongo DB
| ML Algo | HTML | CSS | JS**



CLIENT:

The client is a leading industrial equipment manufacturer for the process industry.

CHALLENGE:

To monitor and inspect equipment under manufacturing. The manual quality comparison was tedious and challenging to analyze thousands of data points. Change in design was a prolonged and costly process that increased the manufacturing cost.

SOLUTION:

We built a responsive web app using ReactJS with Grafana. This was supported by Unity3D model and time series database services integrated with custom machine learning backend. The physical object was converted to a 3D model object using existing AutoCAD file or recreated. Time series data is used by machine learning algorithm to generate diagnostic, predictive and prescriptive analytics for simulation, design, and performance of each equipment or its parts.