IN AN INDUSTRIAL SETUP, OFTEN THERE ARE SOME PROCESSES WHICH ARE SOMETIMES THEY ARE CRITICAL AND ANY BREAKDOWN COULD PUT A HALT TO MAJOR BUSINESS OPERATIONS.

A LARGE WINDMILL, A CONVEYOR BELT OR A METRO TRAIN ARE ALL EXAMPLES OF SUCH PROJECTS.

DIGITAL TWIN

Bosch Digital Twin is a cyber-physical system built on the sensors, software, services framework. It involves modeling industrial assets with all their geometrical data, kinematic functionality, and logical behavior, permitting business operations to be simulated, controlled, improved.

OPERATIONAL CHALLENGES

- Operate in hazardous environments
- Have high capex and opex
- Complicated
- Are distributed across geographies
- Are located in difficult to access locations
- Lack transparency

BUSINESS IMPACT

- Reduce maintenance costs
- Reduce down time
- Improved OEE
- Reduced MTTR & MTBF
- Predictable RUL
- Investment deferrals on R&R costs
- Optimize TCO
- Improve business margins
- A digital twin enables an enterprise to see the unseeable, perform experiments to understand what-if scenarios, simulate, execute and control their business operations better.

“TECHNOLOGY IS JUST AN ENABLER FOR WHAT THE HUMAN MIND CAN ENVISION”