

# Remote Asset Management

Connecting Assets In COVID-19 Pandemic

## Present Scenario

In the present scenario of COVID-19 pandemics an efficient and reliable infrastructure is vital to utilities to provide uninterrupted service. Asset managers and grid operators are under increasing pressure to maintain performance and reliability of power grids, power plants & water utilities assets. Remote sensing by means of drone and Earth observation satellites provides an innovative and cost-effective way to support asset management and risk management. It can reduce the need for human inspections and enables advanced decision support and risk management.

## Business Challenges

- Workforce absenteeism leads to Increased demand for a limited number of resources
- Asset spread across geography
- Increased operational oversight responsibility
- Diversity and panelizing damages resulting from high profile incidents
- Water Quality
- Operational Safety

## Tech Mahindra Solution

A solution to easily pull asset and infrastructure data from the field and upload it to a centralized place, a process that would allow the right people to have access to all aerial visuals while analyzing remotely.

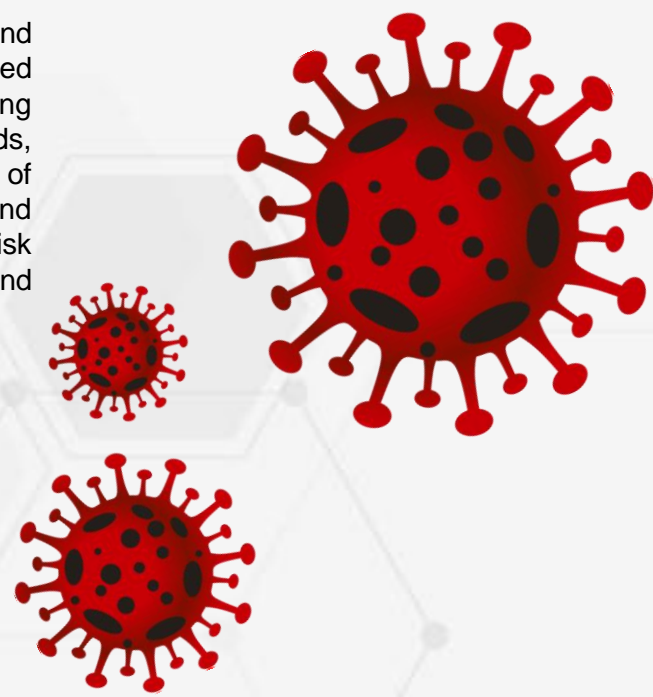
- Asset Monitoring
- Asset Inspection
- Site Investigation
- Water quality

- Image Analytics
- Assets risk management dashboards

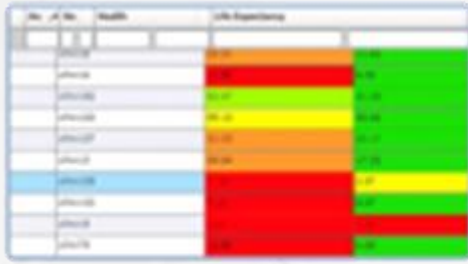
- Condition based maintenance
- Predictive Maintenance
- Event Detection

## Business Benefits

- Reduce the need for human inspections
- Cost-effective asset monitoring, reduction in OPEX
- Advanced analytics for decision support and management
- ROI will be fast and meaningful



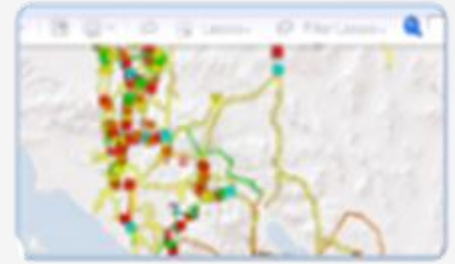
# Asset Dashboard



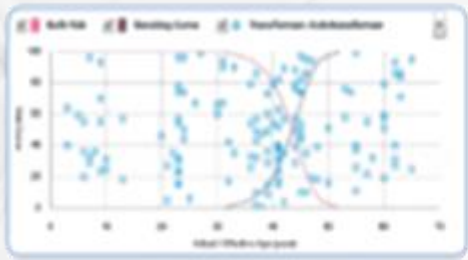
Asset Criticality



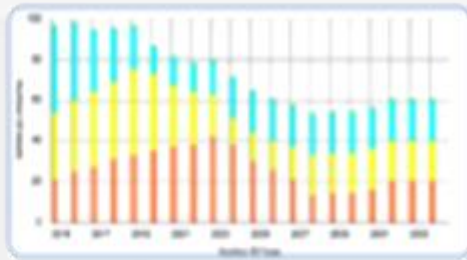
Asset Health



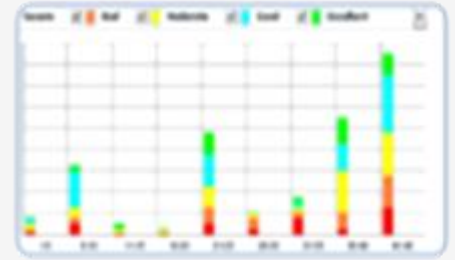
Asset Status



Asset Survivability



Asset Risk



Asset Performance

## Feature



Advanced Image analytics and AI that can quickly detect issues and leverage data from operating history



Alert notifications and drilldown capabilities for resolution teams



Monitor is the foundation for predictive maintenance and asset health

## Solution Caters To



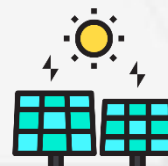
Power Generation



Transmission & Distribution



Water & Waste Water



Solar Plant



Wind Farm

- Global length of transmission line 5.9 million circuit kilometers, is expected to reach 6.8 million circuit kilometers
- \$169 billion Global cost of power & utilities sector losses related to network outages

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<https://www.techmahindra.com/en-in/covid-19-response/>

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