



About Us



Performatica LLC provides professional advisory services including Strategic Planning, Operations Management, Technology Transformations and Digital Platform Alliances in select industry verticals such as Energy & Sustainability, Power& Renewables, Manufacturing & Industrials, Transportation & Logistics, Healthcare

Management + Technology Consulting



Our Advantage





Consulting+
Technology solutions
team from Fortune
500 and Tier I
IT/ITES Firms

Members from consulting, technology and operations provide an all-inclusive perspective at an engagement level





Design thinking and Change Management at the core of any proposed solution Leveraging lowcode/no-code platforms for MVPs as part of our engagements



Key Services



Transformation Strategy

Baseline Transformation KPIs - Map to enterprise goals and functional/ department KPIs

Platform Architecture and Analysis

Identify and validate technology tools for the program. Feature configuration, infrastructure, security and scalable architecture

Center of Excellence (CoEs)

Identify and validate digital technology platform, process and services for the program. Feature configuration, infrastructure, security and architecture

Digital Solution Design & Development

Designing the Deployment pipeline from sandbox, dev, production and change management, software acceptance standards

Service Experience Design to Deploy

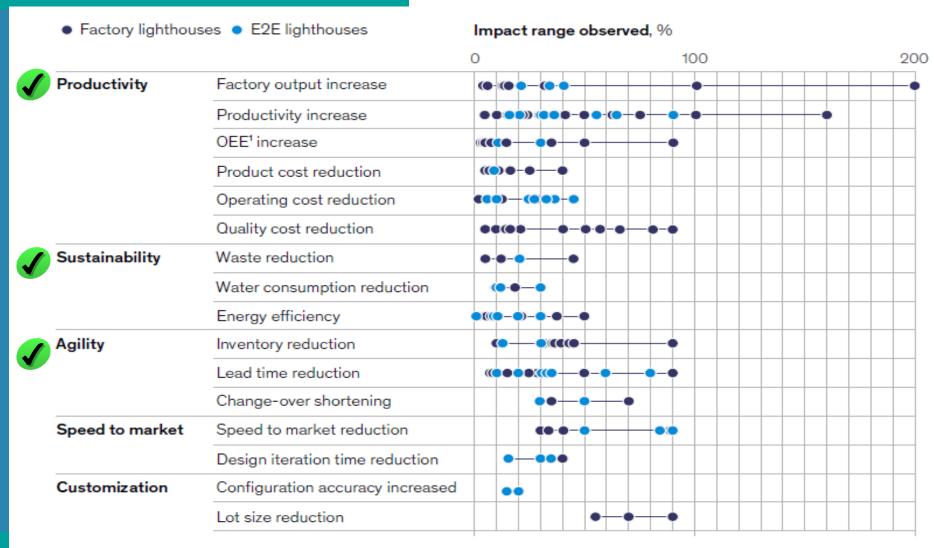
To be Process design, RACI, SLA baselining, Data and reporting, Exceptions, Human-Bot interactions

Business Process Reengineering

Lean process redesign, systems integration, continuous improvement metrics, tech strategy for change management

Target Improvements





¹Overall equipment effectiveness

Source - Mckinsey & Co.

Focus Areas







Productivity





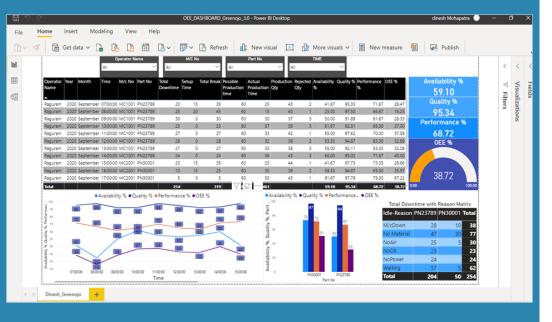
Monitoring & Prediction of OEE (Overall Equipment Effectiveness)

Solution is built on Microsoft PowerApps which helps in instant visualization as well as predictive analysis of production runs at customized intervals.

- The real-time dashboard shows availability, quality, and productivity by - Machine, Product, Order, Shift, and Operator
- Solution supports for OEE analytics for trends/outliers, forecasts by Machine, Product, Order, Shift, and Operator between any production period.
- Solution also supports for MT Connect application using Agents to analyze machine/component health status.
- ✓ We also assist in floor improvement projects using tools such

as Six Sigma, Lean and TOC Confidential. All rights reserved.

Operational Management (Productivity)





Data-based Equipment Analysis

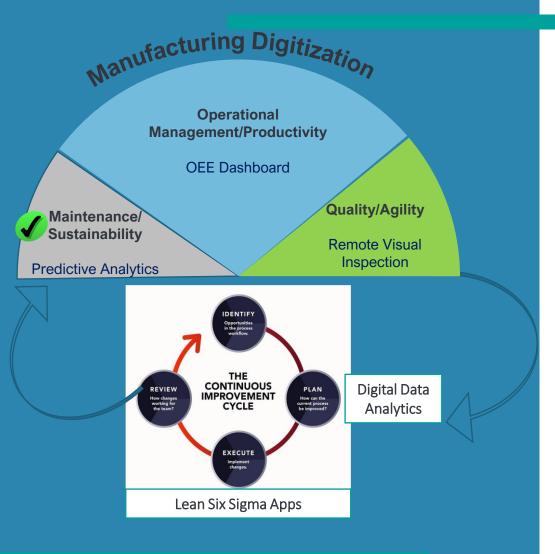
- ✓ How can you maximize the value of your equipment? One of the
 essential factors for increasing productivity is the optimization of overall
 equipment effectiveness (OEE). This is made possible by the cloudbased solution OEE
- ✓ Analytics, which allows you to record and analyze your equipment data and acquire company-specific knowledge.
- ✓ Using the OEE Monitor you can view the current status of your OEE KPIs at any time.

Concept & Connectivity

- ✓ Data acquisition through Operator interface very similar to his current state of data entry but through a mobile/tab.
- ✓ Connected to Cloud for immediate data transfer storage and analysis

Maintenance



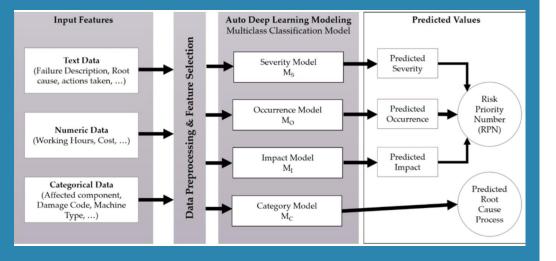


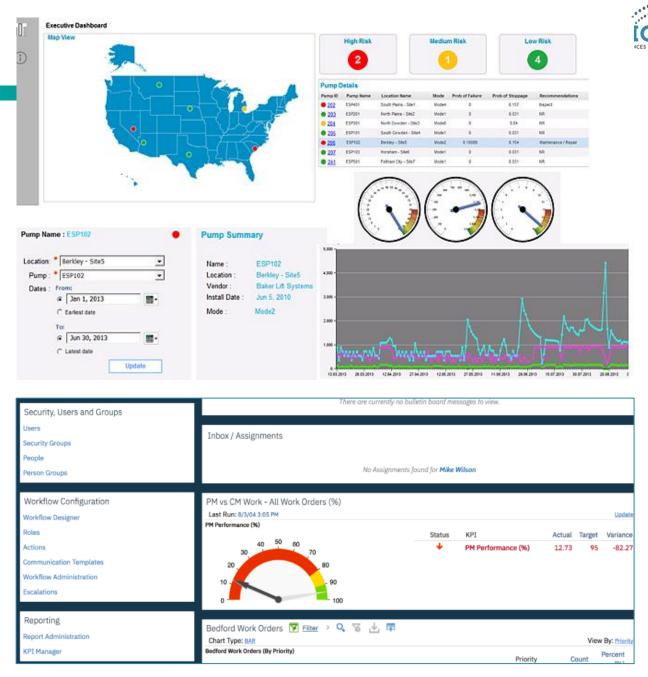
Predictive Maintenance APA (Asset Performance Analyzer)

Solution is built on a Sandbox model using IBM Watson for asset performance analysis - for Asset Health Prediction (e.g., ESP, BOP, Boiler, Flowlines, Pipelines, Drill bits, Pipelines, etc.)

- The solution supports a customized ESP Data Template on top of the ESP- RIFTS Dataset
- Generates Asset Health prediction reports at regular intervals, leverages notification engine for E-mail/SMS for the possible failures, support Forecasting/Trends for next 72 hrs. (Planned vs Actuals last 24 hrs.)
- Solution also supports for What-If Analysis, Reliability Analysis,
 Mean Time to Failure (MTTF) Prediction, Failure Distribution.

Operational Management (Maintenance)





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Quality



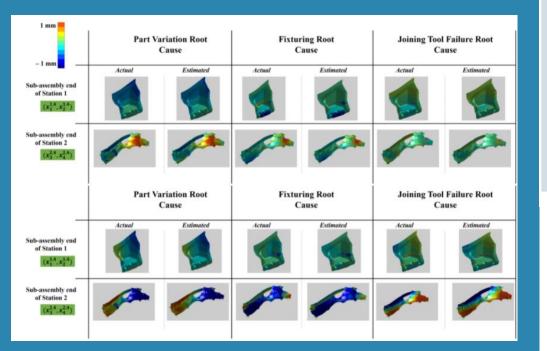


Operational Management - Quality RVI (Remote Visual Inspection)

Solution is built using an open-source computer vision platform to perform remote inspections and detect deviation from specifications (as defects) during production.

- Defects detection using CNN (Convolution Neural Networks)
- App-based streaming on inspected items is shared in real-time to the QC team at production site
- Solution also supports for 3D and AR (Augmented Reality) models

Operational Management (Quality)





Applying Deep Learning/Computer Vision

 Detect Flaws/Defects using CNN (Convolution Neural Networks)

Data Streaming using RVI apps to QC team at onsite

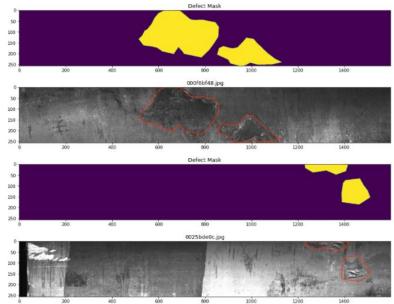
- Using 3G/4G (5G in future), we can use app-based streaming on inspected items to the QC team at onsite
- Examples SGS
 QIIQ Remote
 Industrial
 Inspections;
 Intertek's Remote
 Video Inspection
 (RVI)

Developing 3D and AR models for automated visual inspection system

 Leverage 3D and AR (Augmented Reality) models in lines with 3D BIMs used in the construction/EPC Industry

PMO for 3rd party inspection from firms like SGS

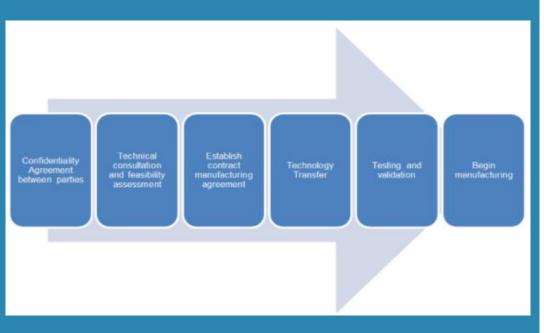
 Manage the PMO services related to quality management (performed by 3rd party inspection firms) at contract manufacturing units as part of buyer/EPC firms



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Contract Manufacturing





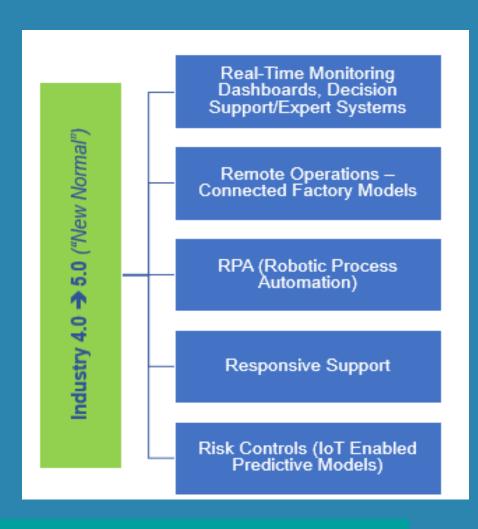
Operational Management – Production Outsourcing BOT (Build, Operate and Transfer) for Contract Manufacturing

Our Partners from Industrial Manufacturing Practice can help to set up

- Digital Procurement Services
- Establish Contract Manufacturing Practice with outsourcing partners from India/Southeast Asia
- Production Monitoring and PMO Support
- QC/Testing at Contract Manufacturer's sites
 - Our partner facilities are run in strict compliance with international quality standards such as - cGMP, WHO-GMP, ISO, ANVISA, etc.
- Logistics & Transportation services
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Covid-19 Impact





Consulting for 5R Services (Real-Time Monitoring, Remote Operations, RPA, Responsive Support, Risk Controls)

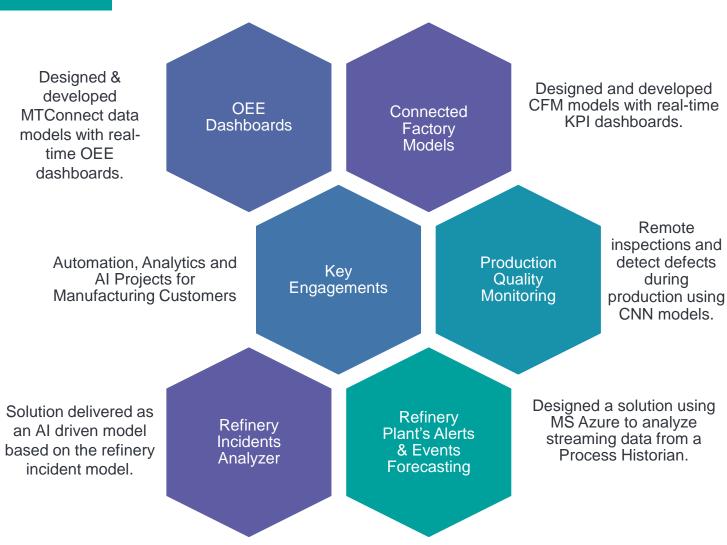
- **Strategic Planning** Design use-cases, technical and domain related market research, open innovation, agile R&D
- Operations Management Drive business transformation, program management, metrics management/business performance
- Technology Transformation Develop prototyping, applied analytics in these 5R services
- Digital Platform Alliances Discover industry alignment to post covid-19 era, sustainability goals and industry 4.0+ demands by building a responsive digital ecosystem.

Key Engagements





- ✓ Asset Performance Insights
- ✓ Predicting cyber-security Incidents using AI/ML
- ✓ Connected Factory Models
- ✓ HSE/Safety Risk Analytics
- ✓ Design Digital Twins
- Asset Reliability Analysis



Engagement Model



Discover for Innovation

Identify opportunities and classify capability baseline from client stakeholders

Prioritize high impactful/ROI areas where we need to go for digital transformations to align business with Industry 4.0+ initiatives

Design for Transformation

Design use-cases, perform technical research and create specifications on areas for innovation

Study data related to earlier business transformations, inflight projects, and current performance level KPIs to benchmark against the industry

Develop for Performance

Develop an industry alignment to post covid-19 era, sustainability goals and industry 4.0+ demands

Build a responsive digital ecosystem built on **5R** -

Real-time Monitoring, Remote Operations, Robotic Process Automation, Responsive Support & Risk Controls







Thank You

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