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total asset control

Digital Twin Development

One Equipment Package at a Time

1 Feed Study

To check data quality is fit for purpose

2 Readability Study

Across the fleet to look for bad actor equipment to determine prime candidates to model. Report build at end of analysis.

3 Project Stage Gate Meeting 1

Asset stake holder meeting to sense check reliability analysis, choose a package to model.

4 ANSYS Digital Twin Model Build

5 Engineering Analysis

6 Build Technical Support

Highlighting benefits of the digital twin, what's been found so far and bad actor remediations to optimise equipment performance.

7 Delivery Workshop

With key asset stake holders - communicate what's been found and reinforce the need for embedment.

8 Final Outcome

Potential licence upsell and moc facilitation via technical ongoing support.

Total Estimated Costs

£73,840
Single Package

£250,000
Chemical Injection Train

The chemical injection train has a potential OPEX reduction of $20m / year due to employing a predictive maintenance digital twin for one system, imagine this ROI extrapolated across your fleet.

1) top and tail costs remain the **same, scalable factors** are **size of fleet to conduct reliability analysis** on and **size of equipment for digital twin build.**

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AVENTUS AI LIMITED Arnhall Business Park, Westhill, AB32 6UF
t +44 1224 330 502 **e** info@aventus.ai **aventus.ai**
Company Registered in Scotland No. **SC585974**

/aventus-ai
@aventus-ai

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Operator Fleet Benchmark

Analysis to understand asset health status & formulate bad actor remediates

Phase 1: Data Stripping & Project Feed Study

- Gather all requested as-built documentation and selected CMMS data downloads review to ensure it is fit for purpose
- Run ai equipment tag machine learning data stripping from as-built drawings and conduct gap analysis with current CMMS asset register
- Run equipment tag numbers through ACE search engine to build data enrichment
- Develop list of key assumptions on what can be achieved

Phase 2: Asset Register OPEX Analyser

- Perform asset register data analysis
- Build report on estimated and actual pm hours and determine how much time and money is being spent against SCE, Non-SCE, and H,M,L equipment priority levels
- Analyse and build report on accuracy of equipment criticality and priority levels

Phase 3: Asset Fleet Benchmarking Analysis

- Format data and build maintenance strategy alignment by object type template
- Format data and build bad actor analysis template by system/package/ equipment from frequency of failure
- Conduct a cross correlation analysis between maintenance alignment, bad actor equipment
- Sense check poor performance equipment against maintenance strategies, task lists and frequencies and optimise
- Analyse and interpret results and build reliability maintenance optimisation report

Phase 4: Conclude Recommended Practices For Improvement & Finalise Report

Project Delivery Workshop - present findings to all key asset stake holders, discuss recommendations and agree on next phase remediations

Aventus Ai Benchmarking Tools

1. **Strategyzer™ -** Maintenance Strategy Alignment Analyser
2. **Realizer™-** Equipment Reliability Performance Analyser
3. **OPEXellence™ -** Asset Register OPEX Analyser

£30,000 Project

Will yield solutions saving OPEX in the **£Million's / year**

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