



Fractal | Theory of change and impact indicators

BY AGILE IMPACTS

Problem statement

The inefficiencies faced by organizations in managing their physical assets effectively can have negative environmental consequences, making it essential for companies to adopt more effective asset management practices and solutions that consider environmental impacts. A maintenance and physical asset management software can help organizations track and manage their assets efficiently, which can result in reduced environmental impact, improved sustainability, and compliance with environmental regulations.



The goal of the company is to help organizations increase their productivity, profitability, and sustainability by effectively managing their physical assets.



Assumptions

1. The maintenance and physical asset management software will provide efficient monitoring of the assets.
2. The software can accurately measure key performance indicators (KPIs) for the asset's performance.
3. The software can predict system failures before they occur, thereby reducing maintenance costs and downtime.
4. The software can increase energy efficiency and reduce carbon emissions.

"An all-in-one asset maintenance management solution."

Theory of change

The company's software solution will enable organizations to achieve their asset management goals, resulting in improved operational efficiency, reduced costs, enhanced sustainability, and increased social and environmental benefits.

Inputs:

The company will invest in research and development to create an innovative, user-friendly, and customizable software solution for maintenance and physical asset management.

Outputs:

1. Reduced downtime and increased asset longevity through timely maintenance interventions.
2. Real-time tracking of asset performance through KPIs.
3. Enhanced energy efficiency and utility cost savings.
4. Increased reliability and confidence in equipment to operate as expected.

Activities:

The company will market and sell the software to businesses across different industries and provide comprehensive training and support services to ensure the software's effective implementation and usage.

Outcomes:

1. Effective management of the business operations and maintenance requirements.
2. A significant decrease in unplanned maintenance costs and reduced asset downtime.
3. Improved productivity as a result of higher equipment availability.
4. Improved analyses and strategies for asset's maintenance operations, based on synthesized and comprehensive data.
5. Improved energy efficiency, and reduced carbon emissions to support a sustainable use of resources.



- ▶ For us, managing impact indicators is crucial to ensure the business is meeting its social and environmental goals. The following indicators are measurable data points that reflect the company's progress towards achieving its desired outcomes

What is the business impact?

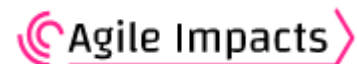
1. **Reduction in downtime:** The amount of time that assets are down due to an unplanned maintenance activity, which is expected to decrease with the software's planning features.
2. **Improved asset performance:** The measurement of the efficiency and effectiveness of the asset performance based on the data captured by asset monitoring software. Indicators could include factors such as reduced temperature and more accurate hours of use.

3. **Reduced maintenance costs:** Cost reduction resulting from optimal management of assets and their maintenance activities. The software's predictive maintenance features should help avoid unnecessary maintenance activities and reduce material costs.
4. **Reduced energy costs:** Cost savings realized due to the software's energy measurement and monitoring capabilities, which calculate the amount of energy used per asset and the corresponding cost savings.
5. **Improved workforce productivity:** Improved productivity through the use of asset monitoring software tools, which eliminate manual activities and provide continuous feedback on asset performance.
6. **Improved regulatory compliance:** Compliance with regulatory requirements to track and monitor asset maintenance history and environment, while ensuring that assets are in good condition and safe to operate.
7. **Reduced maintenance activities:** The reduction in environmental impact associated with the production and disposal of equipment, as well as a reduction in the carbon footprint associated with the transportation of equipment to and from the maintenance facility.
8. **Extended asset lifespan:** The reduction in environmental impact associated with the production and disposal of equipment, as well as a reduction in the carbon footprint associated with the transportation of equipment to and from the maintenance facility.

Triple impact short-list indicators

Dimension	Impact Indicator	Definition
Economic	Cost Savings	Total savings in repair costs, energy costs, and other maintenance expenses due to software interventions
	Return on Investment (ROI)	Percentage return on investment in the software, taking into account cost savings and revenue increases
Social	Customer Satisfaction	Percentage of customers who report improved asset performance, reduced downtime, and increased reliability due to software implementation
	Employee Productivity	Increase in employee productivity due to reduced downtime and more efficient maintenance practices
Environmental	Energy Consumption Reduction	Percentage reduction in energy consumption due to more accurate monitoring of power quality and better maintenance practices
	Greenhouse Gas (GHG) Emissions Reduction	Reduction in GHG emissions resulting from: 1. Save energy, 2. Reduce maintenance activities, 3. Extend asset lifespan
	Water Usage Reduction	Percentage reduction in water usage due to optimized asset management

Your Impact Indicators in minutes!



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