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Enhance your Logistics Equipment efficiency using D.PRIM

Deloitte's Predictive Intelligent Maintenance

Leverage your SAP Data with the Google Cloud Platform

The past few years have highlighted the vulnerability of global supply chains with numerous disruptions causing considerable impacts. The international challenges of the past years have lead to warehouses being built increasingly closer to production facilities. The continuous development of new technological advances, as part of the Industry 4.0 revolution, challenges manufacturers and warehouse operators to adapt to this fast-paced environment by utilizing an increasing number of technical equipment pieces. Thus, facilities rely on a diverse set of machinery across the supply chain to ensure the optimal functioning of their operations. Sensors regulate the temperature in warehouses, conveyor belts transport goods from one part of a facility to another and robots perform precise automated tasks. Warehouse operators regularly introduce autonomous warehouses with robots and automated guided vehicles as an effort to adapt to ever more high-tech solutions aiming to increase efficiency and productivity while reducing labor costs.

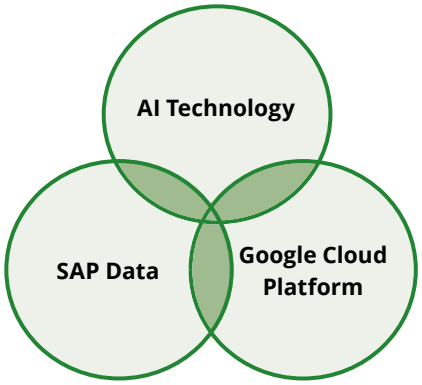
When depending on a large amount of technology and automation, it is crucial to maintain these machines regularly to avoid costly breakdowns and facility disruptions. However, it is difficult to schedule maintenance procedures, as errors don't occur on a precise schedule. Furthermore, warehouse operators rely on equipment from different vendors, which have varying issues and maintenance cycles. The solution to these common issues is to implement predictive methods instead of risking the detrimental effects of uncertain maintenance procedures.

By tackling possible future maintenance issues head on companies can

- ...prolong the lifespan of their assets
- ... reduce errors and breakdowns
- ... ensure the quality of their products
- ... prevent disruptions to their operations

We combined SAP and the Google Cloud data and analytics technology to create an AI-based approach to predictive Maintenance for Customers, that is presented in our Point of View paper, 'Predictive Maintenance for Logistics Equipments with **D.PRIM:** using SAP & Google Cloud Platform. With this solution clients can have an overview of all their diverse data sets and are not bound to certain asset providers.

By collecting data from facility equipment and analyzing it for irregularities, impending errors can be detected, and the issues eliminated at an early stage. The real-time data analysis offers precise, data-driven forecasts that empower clients to tackle future issues with flexibility. Furthermore the data that is collected and analyzed utilizing different approaches will be comprehensively visualized to benefit the user.



While some providers of warehouse equipment offer built-in predictive maintenance solutions for their products, these offer limited insight into facility data, as warehouse operators buy assets from different providers.

By integrating SAP data and Google Cloud data and analytics tools, customers can access business-critical data in real-time, simplify their digital landscape and gain valuable insights with Google Cloud's advanced AI analytics tools. Furthermore, maintenance periods can be anticipated in advance and minimized to reduce the impact on production and warehousing processes, ensuring a seamless workflow with no unexpected breakdowns.

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