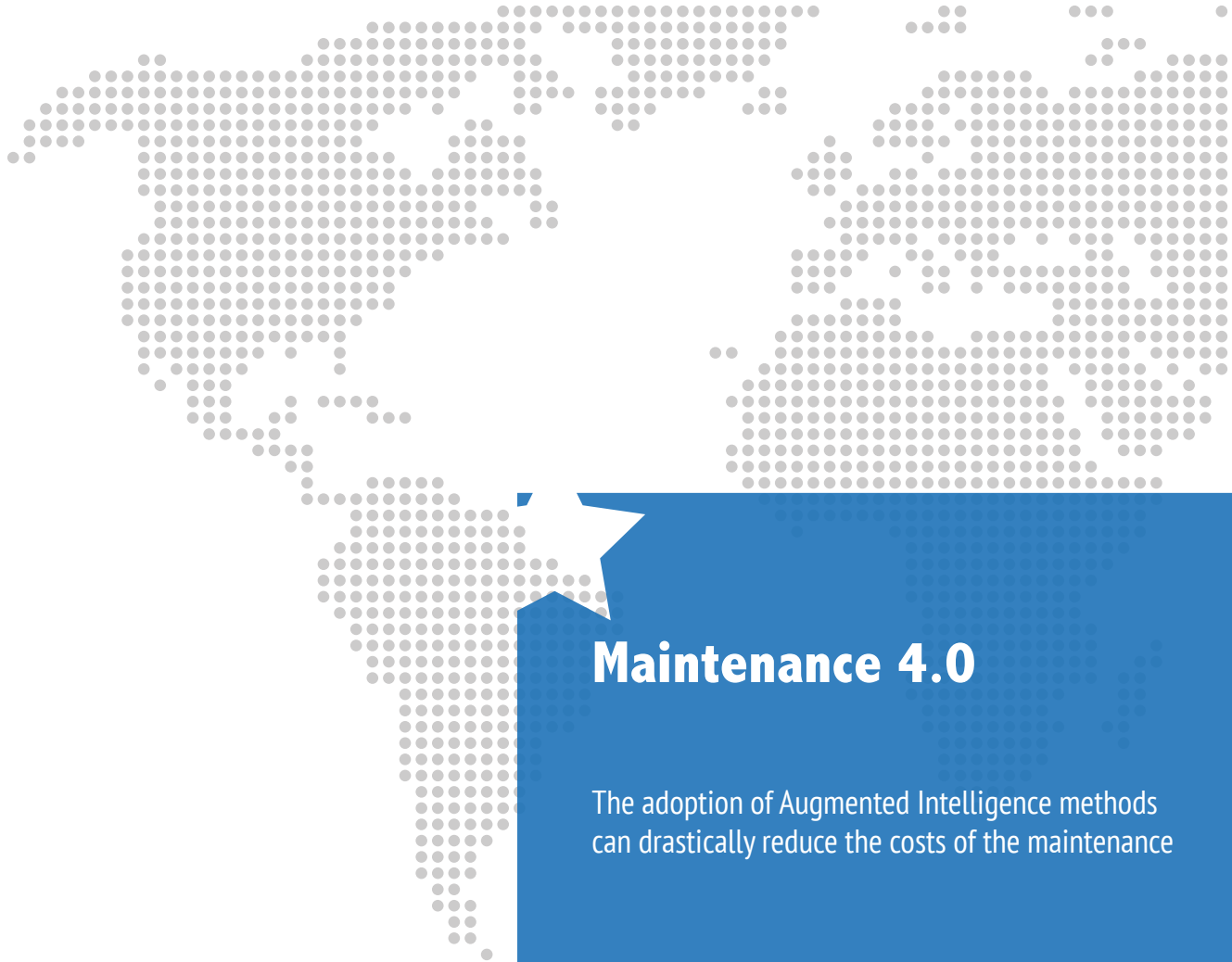


Predictive and Prescriptive Maintenance with the Synapse Maintenance Suite



Maintenance 4.0

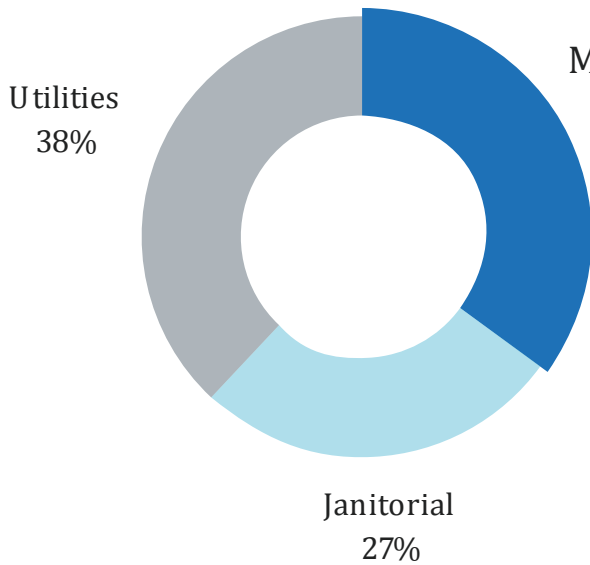
The adoption of Augmented Intelligence methods can drastically reduce the costs of the maintenance

ADVANCED MAINTENANCE

Maintenance costs are a major part of the total operating costs of all manufacturing or production plants.

With the Synapse Maintenance Suite you will be able to predict the future likelihood of failure of each component and compute the optimal maintenance and production plan.





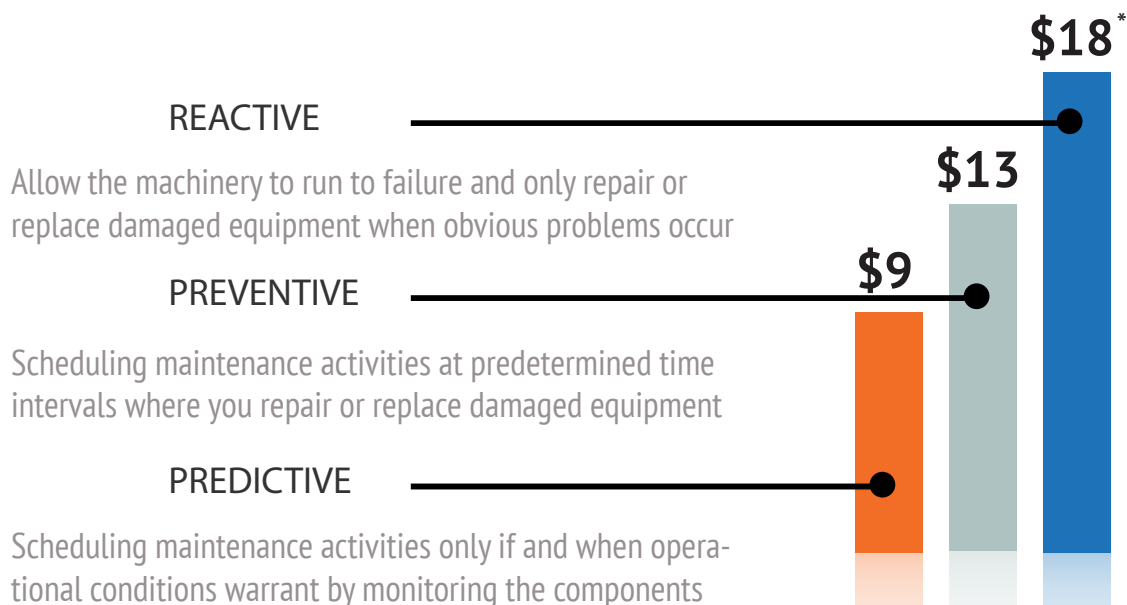
Maintenance
35%

Maintenance constitutes a significant percentage of expenses in most facilities, it amounts more than one-third of the total operating expenses

“Too many companies inaccurately think that maintenance consists solely of waiting for an asset to go down, and then fixing or replacing it.”

Reid Paquin, Research Analyst,
Manufacturing and Product Innovation & Engineering (PIE)

Maintenance Program Costs

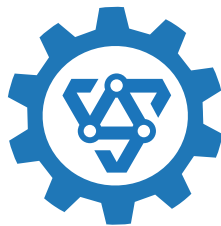
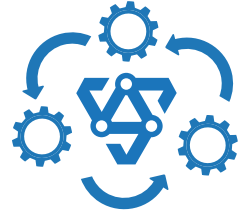


* the costs to operate in this fashion per horsepower per year

Piotrowski, J., Pro-Active Maintenance for Pumps

SYNAPSE MONITORING SYSTEM

The software relies on an advanced **IoT** infrastructure analysing in real-time the status the components.

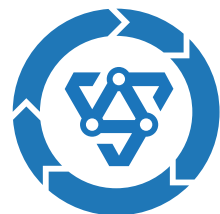


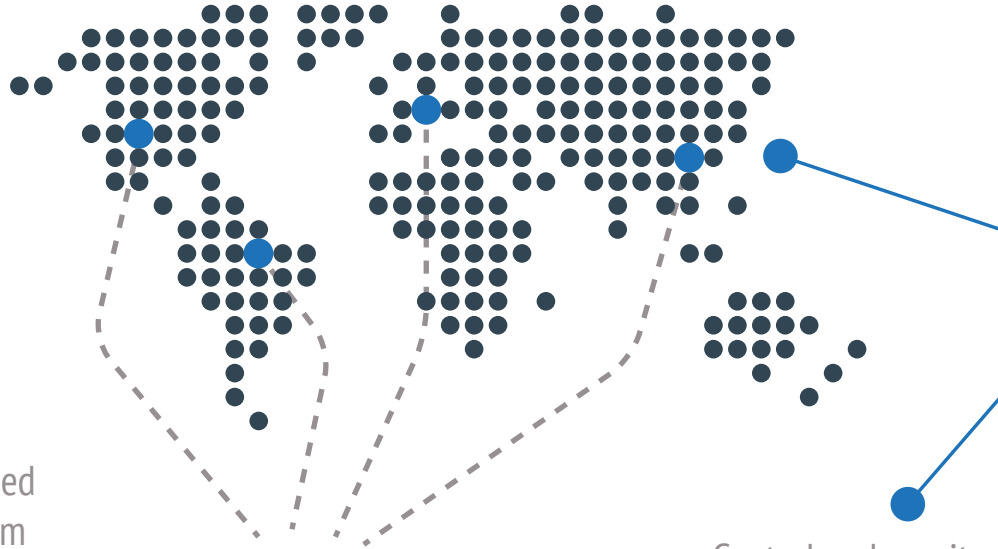
SYNAPSE PREDICTION ENGINE

The software uses a combination of innovative **Machine Learning** techniques to predict the likelihood of failure of the observed component.

SYNAPSE INTELLIGENT SCHEDULER

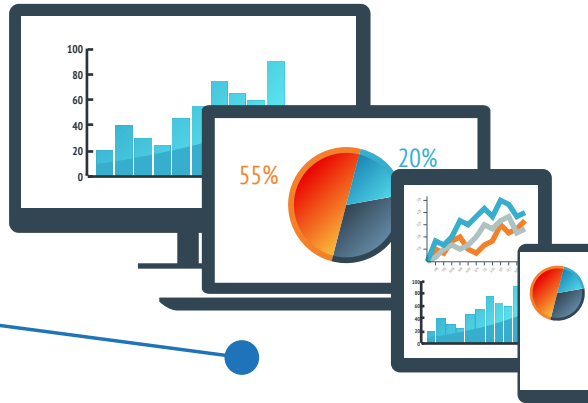
Exploiting the analysis of the predictions and the data of the current and future production, the software computes the **optimal production and maintenance plan**.





The software can be used
on any Operative System
and on any Device

Control and monitor in real-time
every plant in the world.



EDITIONS

Each software can be used separately and has
been developed into two editions.



The enterprise edition is installed on a
dedicated server.



The Software as a Service edition is based on
the most secure and fast communication
protocol.

ADVANTAGES



FEWER BREAKDOWN

A well-orchestrated predictive maintenance program tends to eliminate the equipment failures.

PRODUCTION CONTINUITY

The reduction of the failures implies the increase in production continuity

DOWNTIME REDUCTION

The software computes the optimal maintenance plan such as to minimize the impact on the production

CUSTOMER LOYALTY

The adoption of an high quality maintenance service increases the loyalty of the customers

FEWER WARRANTY SERVICES

The reduction of the failures implies the reduction of maintenance activities during the warranty

STOCK OPTIMIZATION

Minimize inventory and order parts, as required, well ahead of time to support the downstream maintenance needs.

LONGER MACHINE LIFETIME

Replacing the components before a failure increases components operational life/availability

OPTIMAL PRODUCTION PLANNING

Schedule the activities to maximize the production and minimize the cost of maintenance

OPTIMAL MAINTENANCE PLANNING

For enterprises that operate multiple facilities, a smart service plan promises even greater ROI



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