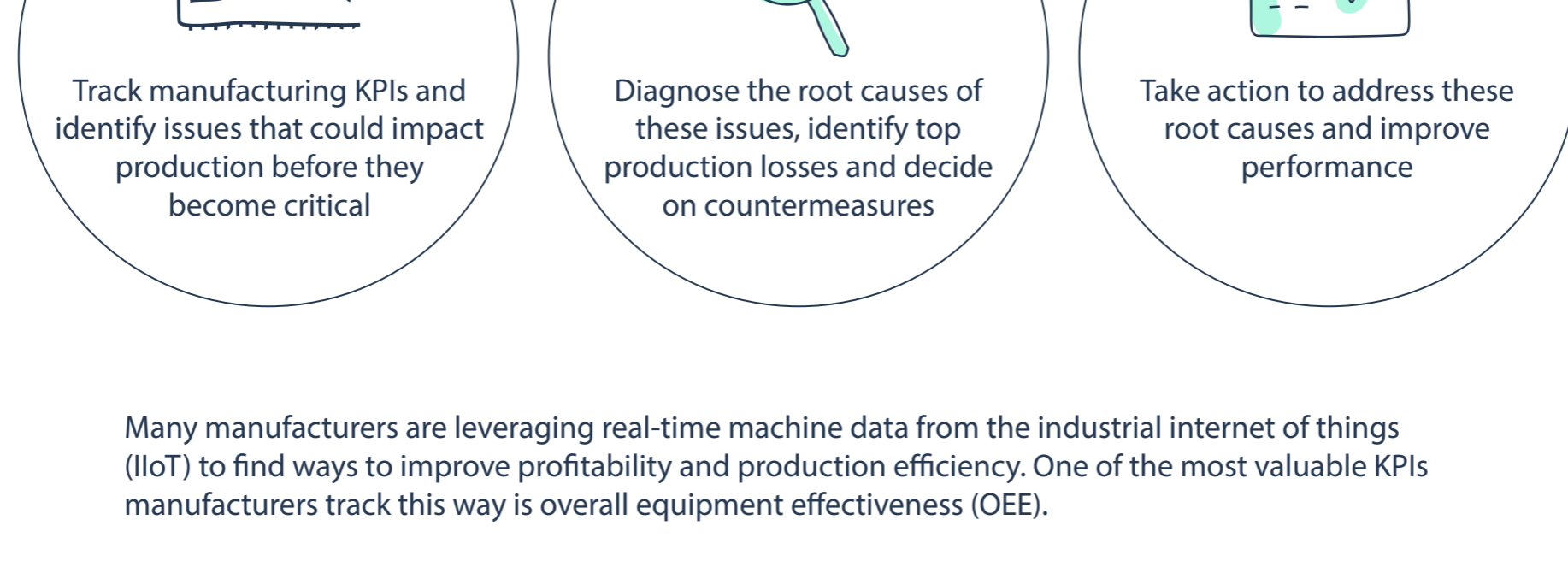


How machine production monitoring powers profits, performance and potato chips

INCREASE EQUIPMENT EFFECTIVENESS AND MANUFACTURING INCOME

Keeping production running effectively requires having tools that:



Many manufacturers are leveraging real-time machine data from the industrial internet of things (IIoT) to find ways to improve profitability and production efficiency. One of the most valuable KPIs manufacturers track this way is overall equipment effectiveness (OEE).

Improving OEE Improves Profits

According to *Quality Digest*.

"a 10% improvement in OEE can generate an increase in operating income of more than 60%."

Manufacturers can improve OEE (and profits) by identifying machine issues early through real-time performance monitoring, implementing solutions and learning from the process.

Take a look at the story below, which shows how manufacturers can improve OEE by using Innius, a machine monitoring system that tracks production KPIs, sends alerts, stores machine data, and facilitates information sharing and collaboration.

Improving OEE with machine monitoring and communication

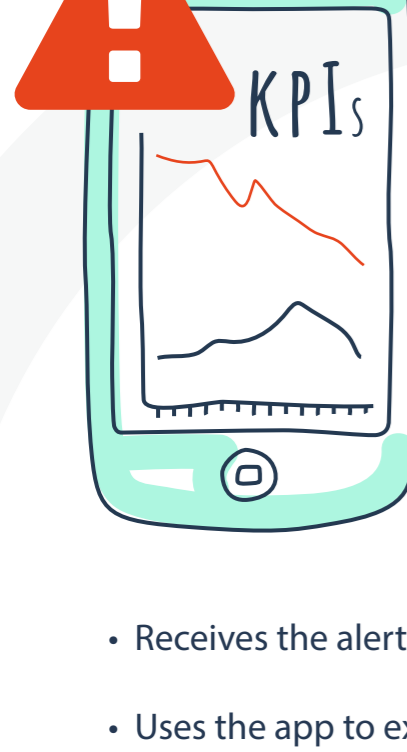
On the production floor at Big Time Foods International, a business-critical potato chip-packaging machine is having some trouble. Its OEE performance isn't up to par.



! 74%

The machine's sensors transmit information to the app that its OEE performance has fallen below 75%, the machine's target OEE metric.

Via the app, the machine sends alerts to key production stakeholders about the subpar OEE performance.



PLANT MANAGER

- Receives the alert about the subpar OEE
- Uses the app to explore what's causing OEE to drop
- Looks into the subcategories of OEE and notices that the subpar results are due to falling performance numbers, one of the company's most important KPIs
- Compares those numbers to the machine's historical OEE performance and to OEE performance data from other machines
- Uses the app to look at the specific sensor data that triggered the alert

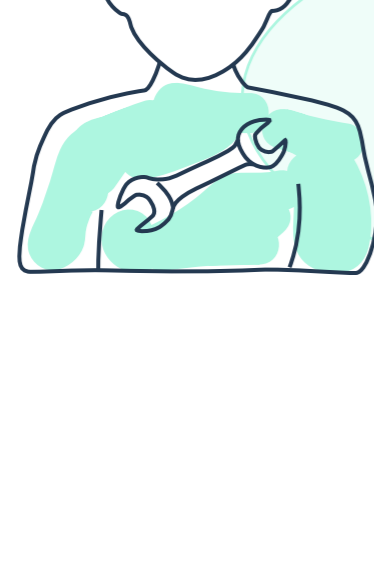
NOTIFICATION: "WE'VE IDENTIFIED THE ISSUE. WORKING ON A SOLUTION NOW."

! Key Stakeholders



MACHINE MANUFACTURER MAINTENANCE MANAGER

- Receives the alert about the subpar OEE
- Identifies the throughput issue and looks into the sensor data
- Notices that the sensor is connected to a roller that's caused performance issues in other machines of the same model
- Uses the app to proactively alert key stakeholders at the food manufacturer that he is aware of the issue, and has a solution

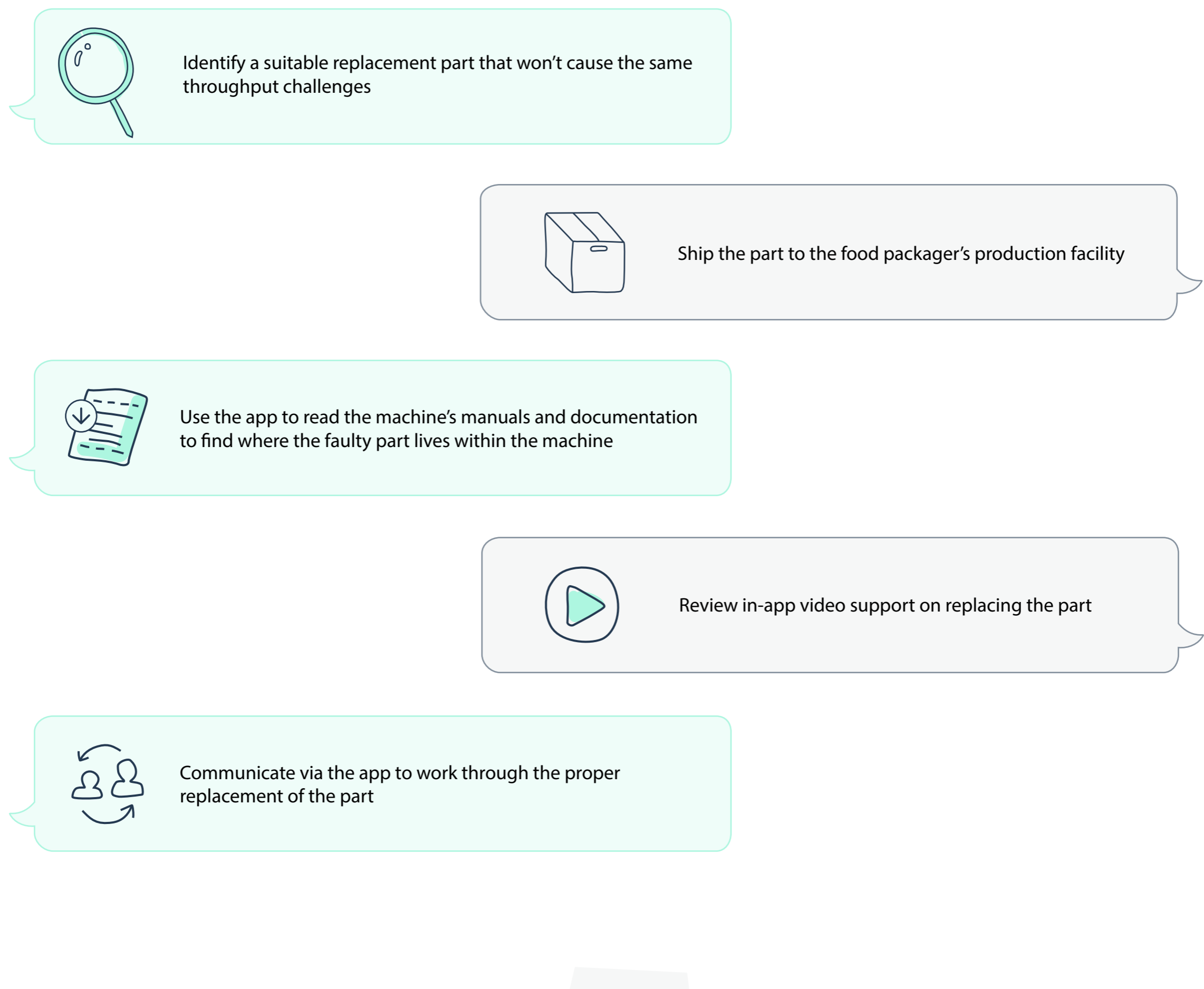


Machine User Maintenance Specialist



Machine Manufacturer Maintenance Specialist

Working together, the two specialists:



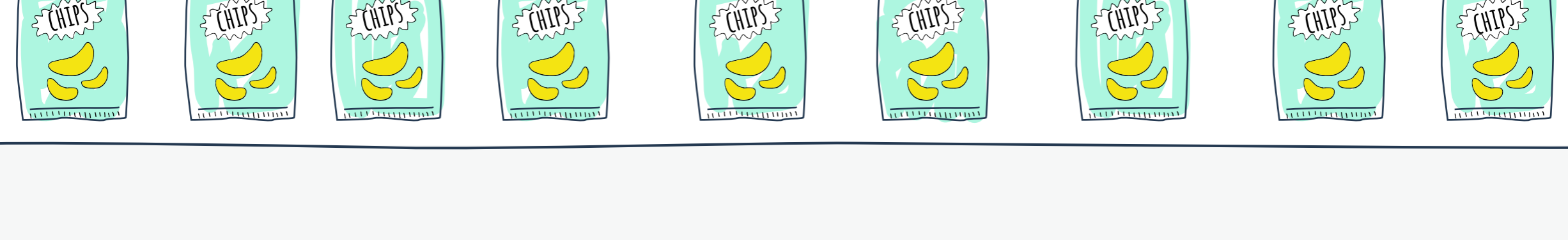
! PRODUCT ENGINEERING TEAM

Meanwhile, the app also sends an alert about the subpar throughput to the machine manufacturer's product engineering team. With this info they:

- Compare the sensor data from the faulty part to sensor data from the same part in other customer machines
- Brainstorm an innovative new machine design that will ensure better throughput and avoid future performance lapses
- Turn this design into a new product, which their sales team can then sell to help food manufacturers around the world produce more potato chip packages (and profit)

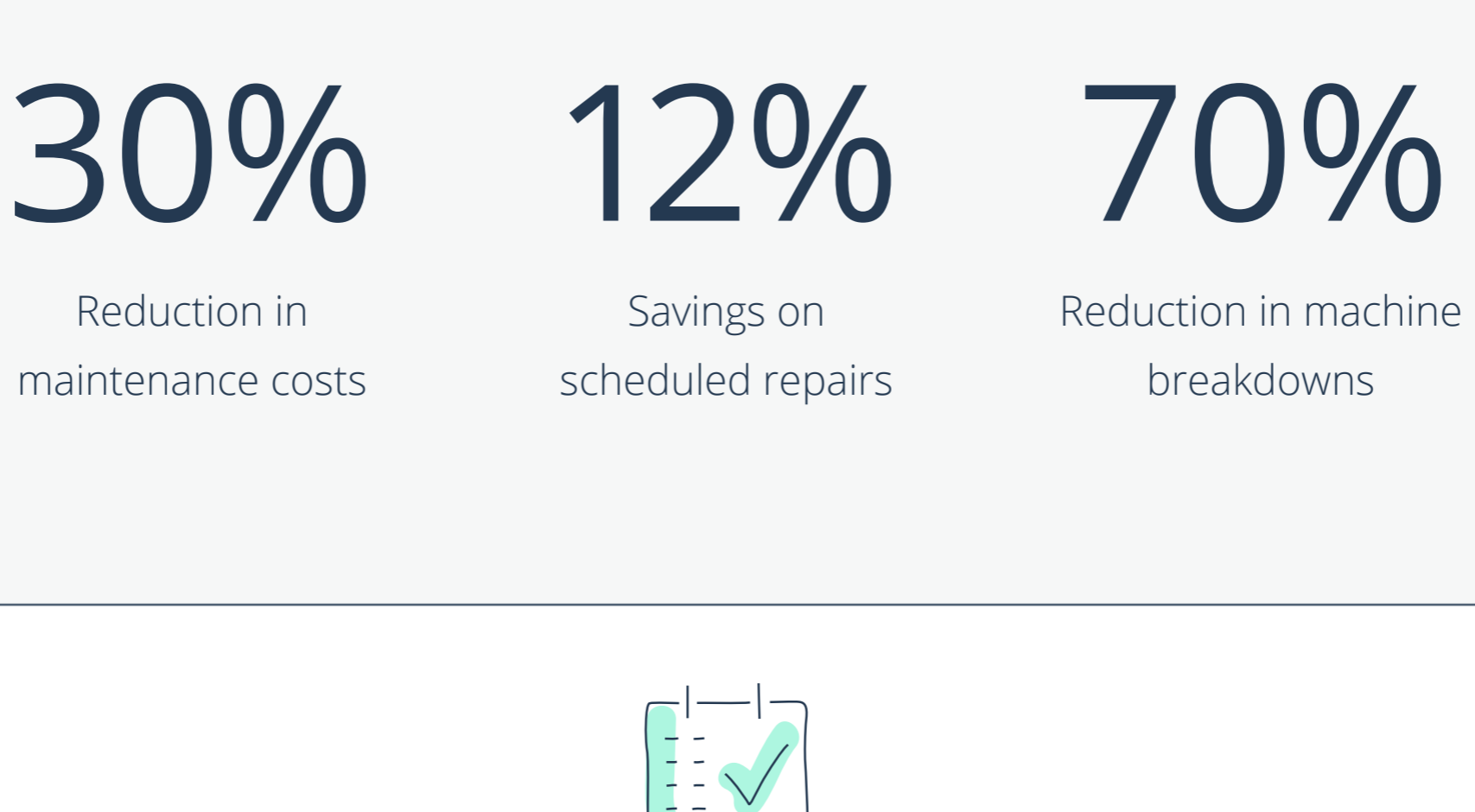


Sharing information about critical machine KPIs helps everyone improve their profits and avoid the frustrations of unexpected production delays. The chip-packaging machine is now back to optimal OEE levels, ensuring chips and profitability for everyone!



The benefits of real-time machine monitoring through the industrial internet of things (IIoT)

According to data collected by the *World Economic Forum*, monitoring machine production and performance through IIoT has proven to help manufacturers achieve:



Develop a plan to improve productivity with condition-based monitoring

Schedule a free machine monitoring needs assessment

SCHEDULE YOUR ASSESSMENT NOW

ABOUT INNIIUS

Innius makes machinery, equipment, and other industrial assets fully transparent and manageable. After a fast, easy deployment, people in companies that manufacture, use, and service industrial assets can see how well they work, initiate timely, condition-based maintenance, and plan performance and engineering improvements. To make this possible, Inniius brings big data from the industrial internet of things (IIoT) together with the cloud, mobility, and social collaboration.