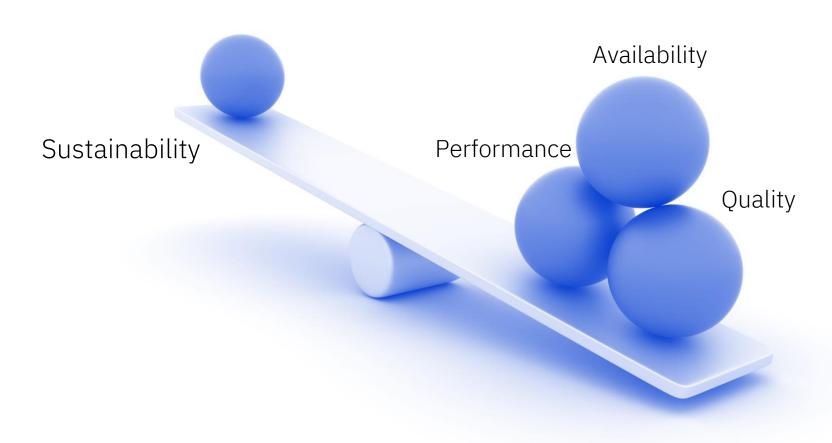
Ambition into action: How to balance sustainability, operational and energy saving requirements

Steffen Hartmaier Senior Technical Specialist for Asset Management



### Balance?



### The obvious...



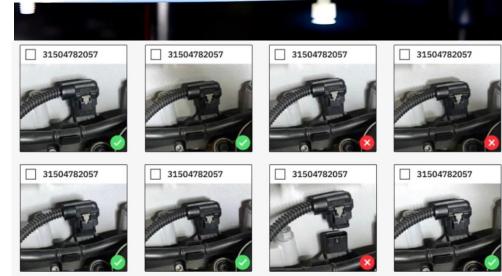
Better Quality = Less Scrap = Better for environment

But how?

Artificial Intelligence on the shopfloor



Visual Inspection with neural networks identifies quality issue in production or assembly lines better than humans



## Assembly



### Large American Auto Manufacturer

Detect production issues at the point of installation so they could be immediately corrected, increasing the quality of its product. IBM Maximo Visual Inspection prevented 32 vehicle misbuilds in the first 30 days.

This "detect and correct" solution eliminated the need for a data scientist. As a result, the manufacturer can now respond to new processes or production requirements in hours rather than weeks or months. The manufacturer has since scaled the solution across many production inspection points, greatly reducing rework and improving overall product quality

### **Toyota**



#### **Ford**



IBM Maximo Visual
Inspection is enabling Toyota
to quickly respond to
manufacturing issues to
reduce rework, warranty
claims, improve overall
product quality and most
importantly pursue their goal
of zero defects
manufacturing.

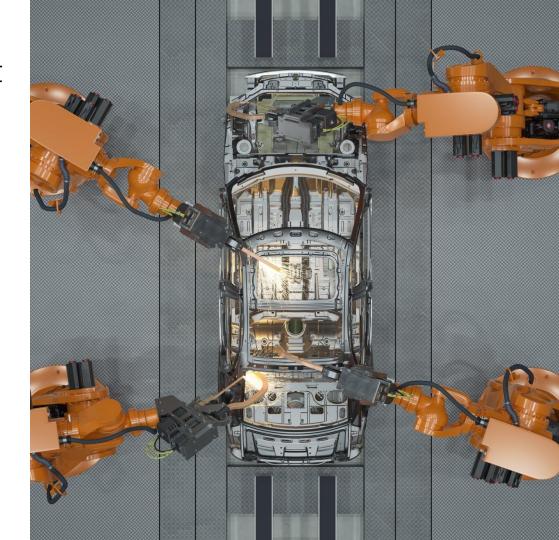
The project leveraged the 5G capabilities of Verizon to demonstrate low latency and bandwidth available of 5G networks being able to drive new use cases in manufacturing plants.

https://youtu.be/4cJXA4t7PWo

The IBM Maximo Visual Inspection platform helps Ford easily find and correct defects before vehicles move down the line and delivers. "real value to the company" MVI can help reduce defects and downtime, as well as enable guick action and issue resolution. Ford deployed the solution at several plants and embedded it into multiple inspection points per plant. The goal was to help detect and correct automobile body defects during the production process. These defects are often hard to spot and represent risks to customer satisfaction

https://www.ibm.com/blogs/internet-of-things/ford-it-innovation-award-ibm/

Talking about AI – Yes, after more than ten years it is still on the list: Condition & Predictive Maintenance



## IBM helped Reckitt modernize, and escape "pilot purgatory"

#### **Use Case:**

Reckitt is a CPG company behind some of the world's most recognizable and trusted consumer brands in hygiene, health and nutrition, including Air Wick, Calgon, Dettol, Durex, Lysol, Mucinex, Nurofen. With 20m products sold daily across 200+markets.

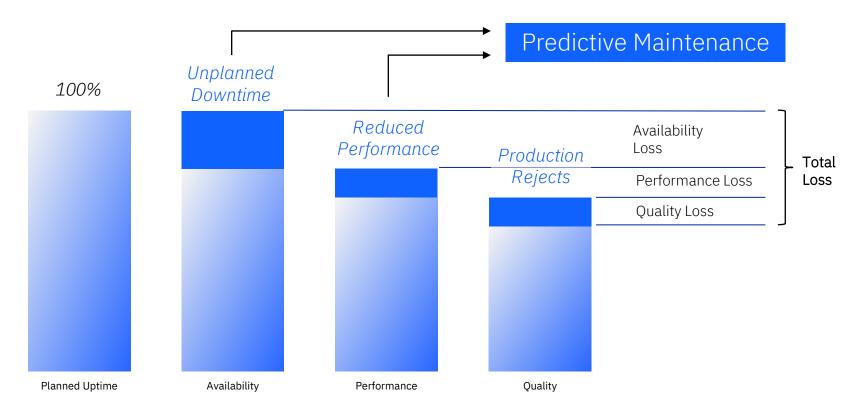
The PM project for EAM anticipated 10% reduction in maintenance costs and activities. The Results "Improved connectivity and rapid data visibility allow our excellent people to really understand and analyze our operations and how we can improve them. But individual insight is just the first step in this maturity curve. When we apply AI algorithms to the data, Reckitt can better predict and plan for the future." -Ben Ellins - IT Director for Manufacturing, Reckitt Group PLC



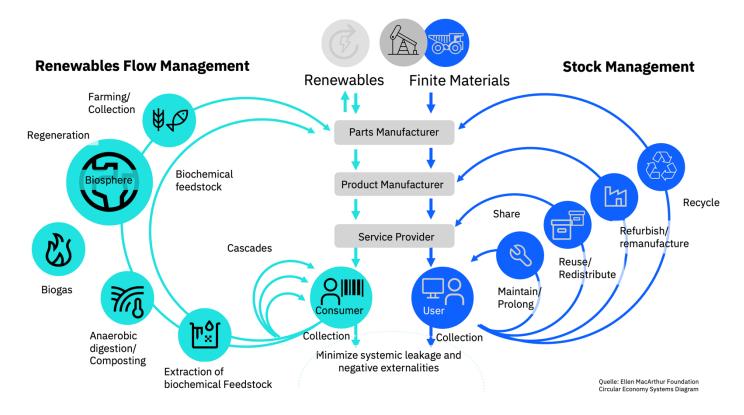


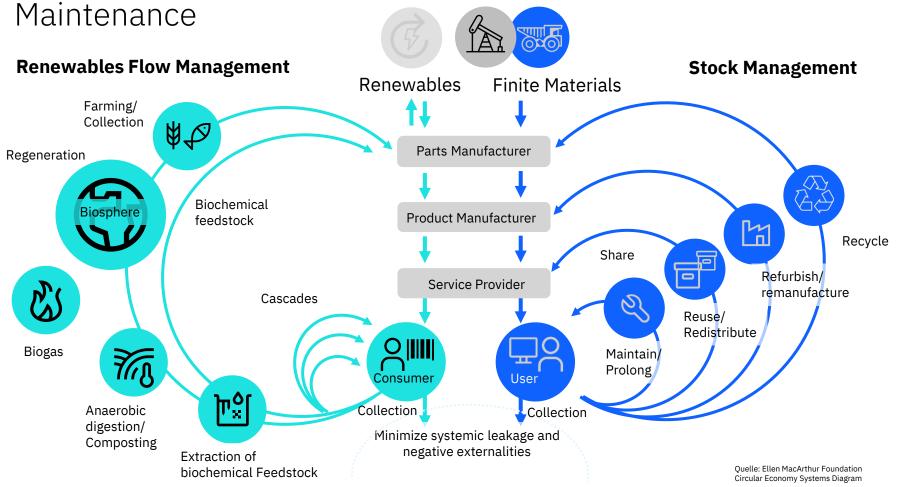
https://www.ibm.com/case-studies/reckitt-group/

## The Value to Manufacturing KPIs again is obvious ...



## But it has received a boost from ESG – with good old maintenance becoming a key factor



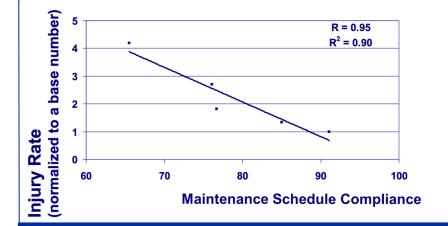




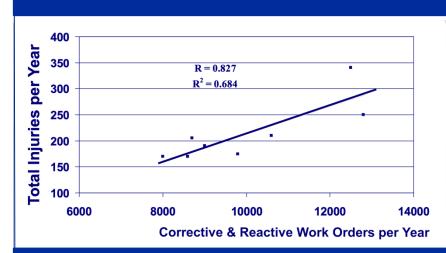
There are more topics on environmental savings in manufacturing leveraging maintenance – e.g. re-furbish, re-cycle, optimization of spare parts



# And good maintenance improves also social KPIs in manufacturing



### Source: large industrial manufacturer (US)



## Summary

## Environment









13 CLIMATE



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## Availabilty

### Social



8 BECENT WORK AND ECONOMIC GROWTH





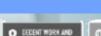












Governance











Performance

16 PEACE, JUSTICE

Quality

## Questions?



