

# How the manufacturing industry can benefit from predictive analytics

Helping the manufacturing industry boost productivity and maximize profit margins through predictive and prescriptive analytics.

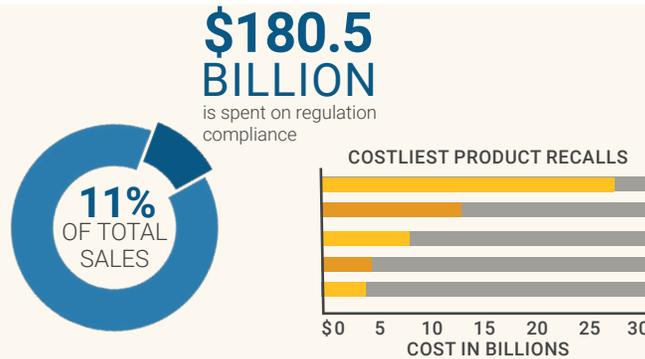
## PROJECT

## PROBLEM

## ANALANCE SOLUTION



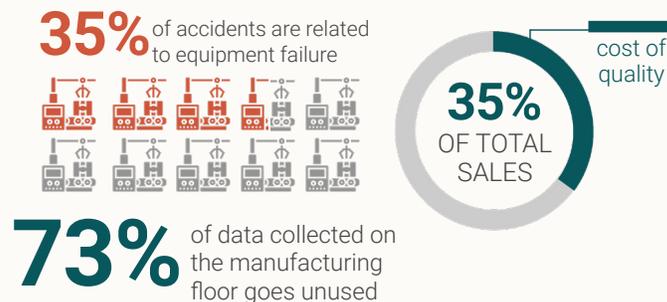
**OPTIMIZING PRODUCTION QUALITY**



Drill through each component in the production life cycle. At a glance, evaluate how data coming from the production line impacts first time yield and identify opportunities to improve efficiency. Plus, isolate stages that drive up costs, causes abnormal variations, drives up DFMO, or results in regulatory sanctions.



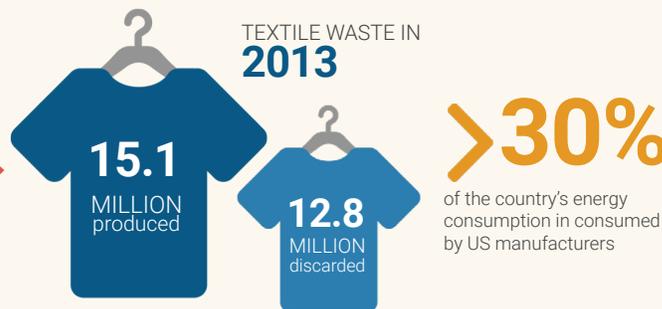
**REFINING QUALITY ASSURANCE**



Process historical operational data using pattern recognition methods to predict unplanned downtimes and detect machine failures. This reduces maintenance costs and disruptions, plus increases speed to market. Using the same method, determine which quality assurance tests you should focus on and for which machinery.



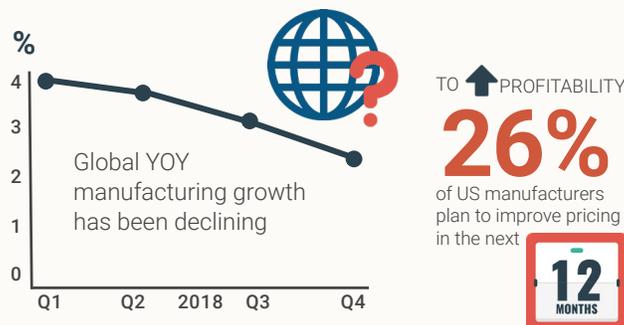
**BETTER PRODUCT DEMAND FORECASTING**



Predict product demand and help manufacturers produce just enough and just in time. Insights are gleaned from both historical sales data and trends within the production process. This analysis guides the production chain, reduces scrap rate, improves energy consumption, breaks down production silos, and even enhances customer satisfaction.



**PREDICTIVE PRICING**

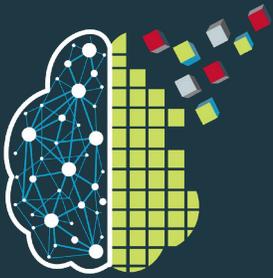


Predict and auto-adjust product prices in response to various factors. Using the chi-squared test of association, determine if there are any significant correlations between certain dimensions (buying price, production cost, demand, location, season, etc.) and the selling price to stay competitive during uncertain economic conditions.

# A DATA SCIENCE PLATFORM

THAT COMBINES ADVANCED ANALYTICS AND BUSINESS INTELLIGENCE INTO A SINGLE PLATFORM

- ✓ An end-to-end enterprise analytics platform
- ✓ Code free and code friendly capabilities
- ✓ Built for all types of users
- ✓ Out of the box ML algorithms
- ✓ Advanced visualization library for dashboarding and reporting
- ✓ Enterprise-ready performance that supports scalability – ML-driven analytics
- ✓ Lower TCO by reducing duplicate investments and labor overhead costs
- ✓ Strong data governance supporting strict compliance



## **ANALANCE ADVANCED ANALYTICS**

Predict business outcomes with machine learning algorithms.



## **ANALANCE BUSINESS INTELLIGENCE**

Analyze and visualize raw historical data to descriptive analytics.

### **More Solutions**

<https://analance.ducenit.com/solutions>

### **Proof of Concept**

<https://analance.ducenit.com/proof-of-concept>

### **Demo**

<https://analance.ducenit.com/get-a-demo>

### **Try Analance for free**

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## **ABOUT DUCEN**

Ducen is a trusted technology solutions provider that aims to empower Fortune 1000 companies through quality solutions and services. Headquartered in Boca Raton, Florida, we help organizations simplify data management, secure business processes, and deliver insights – all in an effort to drive business outcomes and enhance the customer experience. Through our enterprise analytics platform, we build and manage data-driven digital platforms including business intelligence and advanced analytics solutions. We also offer a comprehensive services portfolio covering data management, cybersecurity, and applications development services to help clients stay ahead of the technology curve.

For more information please visit [www.analance.com](http://www.analance.com)