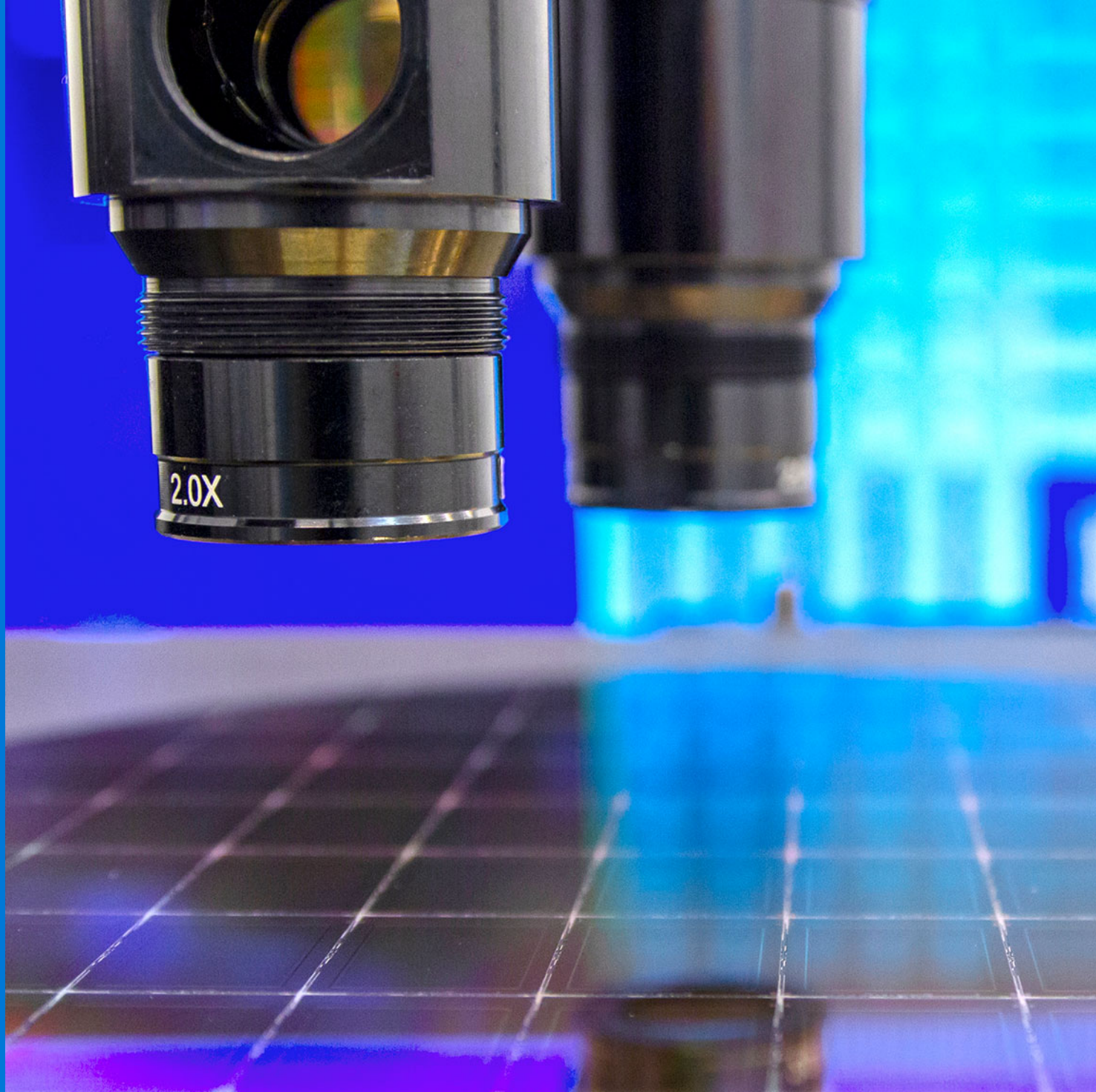


Detect manufacturing defects using Computer Vision

ThirdEye



Quality control challenges in manufacturing

There are up to 15 types of defects that humans must look for during turbine blade manufacturing

Semiconductor fabrication has seen a 50% increase in time for test and verification of IC design

There are several types of machines for cardboard recycling, often leading to operator errors

Detect manufacturing defects using Computer Vision

QuEST Global Digital +
Azure + IoT

QuEST Digital's ThirdEye helps teams optimize production delivery and improve product quality using cameras, Azure Stack Edge, and NVIDIA GPUs. Our solution can detect defects in small items like semiconductors or use multiple cameras to inspect very large items like turbine blades, wings, and train cars, speeding up your lines and lowering net production costs.

Optimize production and efficiency



Lower costs

Early, automatic defect detection leads to lower costs in recalled products as well as optimized inspection resources



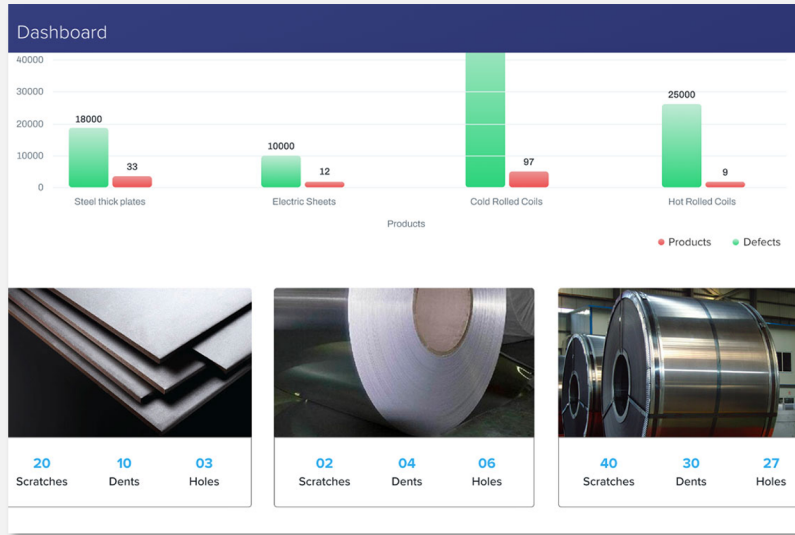
Higher quality

Defect detection not only improves production but also enables managers to train and improve operator performance

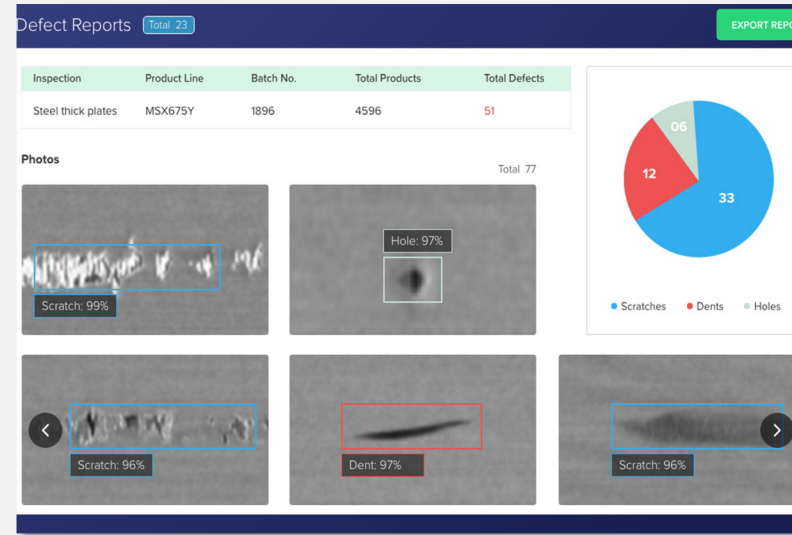


Faster production

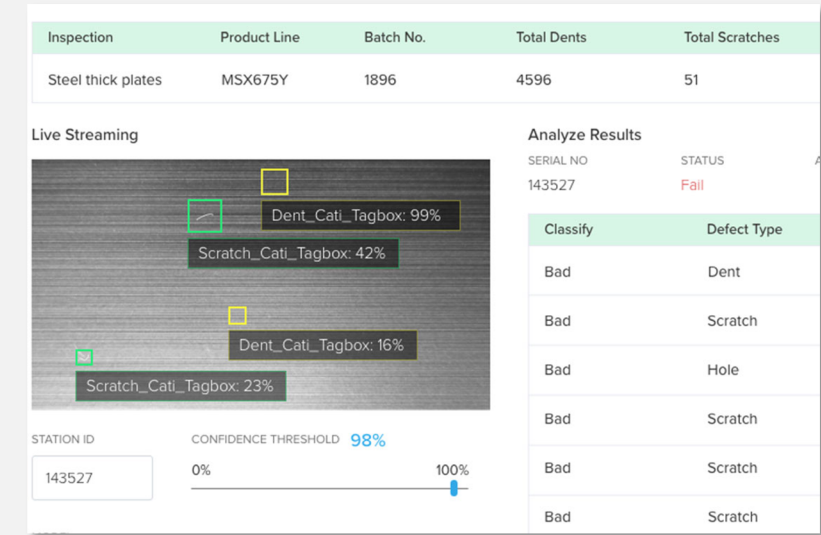
Manufacturing lines can move faster if human inspection is optimized, especially for large items like wind turbines



Monitor overall product quality and analyze defects across all production



Drill down on defect reports for a product category and how they are identified



Live stream production and inspection analysis to optimize defect detection

Optimize production and efficiency

Solution built on Microsoft Azure

Aggregate, analyze and react in real-time



Integration to
upload solution
telemetry



Storage to scale
solutions without
latency



Visualization to
surface solution
insights



Analytics to
predict and
plan



Security to
protect
solution data

VP Engineering, Semiconductor OEM



I would like to congratulate the team with the work you performed on the Deep Learning project for our semiconductor optical inspection equipment. The performance of your AI vision analytics solution, both in overkill reduction and inference speed is very impressive and gave our product a significant competitive advantage.

Start improving your operation with IoT



Contact us to discuss how we can help:

godigital@quest-global.com



About QuEST Global Digital



QuEST Global Digital is headquartered in Texas. It offers engineering services, enterprise solutions, Azure IoT services, and is a Cosell ready in-market partner in the Microsoft Partner Network. Providing solutions like vision analytics, asset monitoring, fleet management and energy management by leveraging IoT sensors and technologies.