## **Predictive Quality in Industrial** Operations with AWS



Predictive quality analytics extract actionable insights from industrial data sources such as manufacturing equipment, environmental conditions, and human observations. It applies statistical algorithms such as machine learning to:



Determine patterns



**Predict future** outcomes and trends



Improve the quality of outputs

### Quality problems have big impacts for industrial companies The inability to determine the root cause of

quality issues—along with excessive time and effort spent remedying them—can decrease yield or lead to costly product recalls



456 food recalls in the US



20% of a manufacturing company's annual sales lost to poor quality \$200K lost one day each week



# Better quality leads to better business outcomes



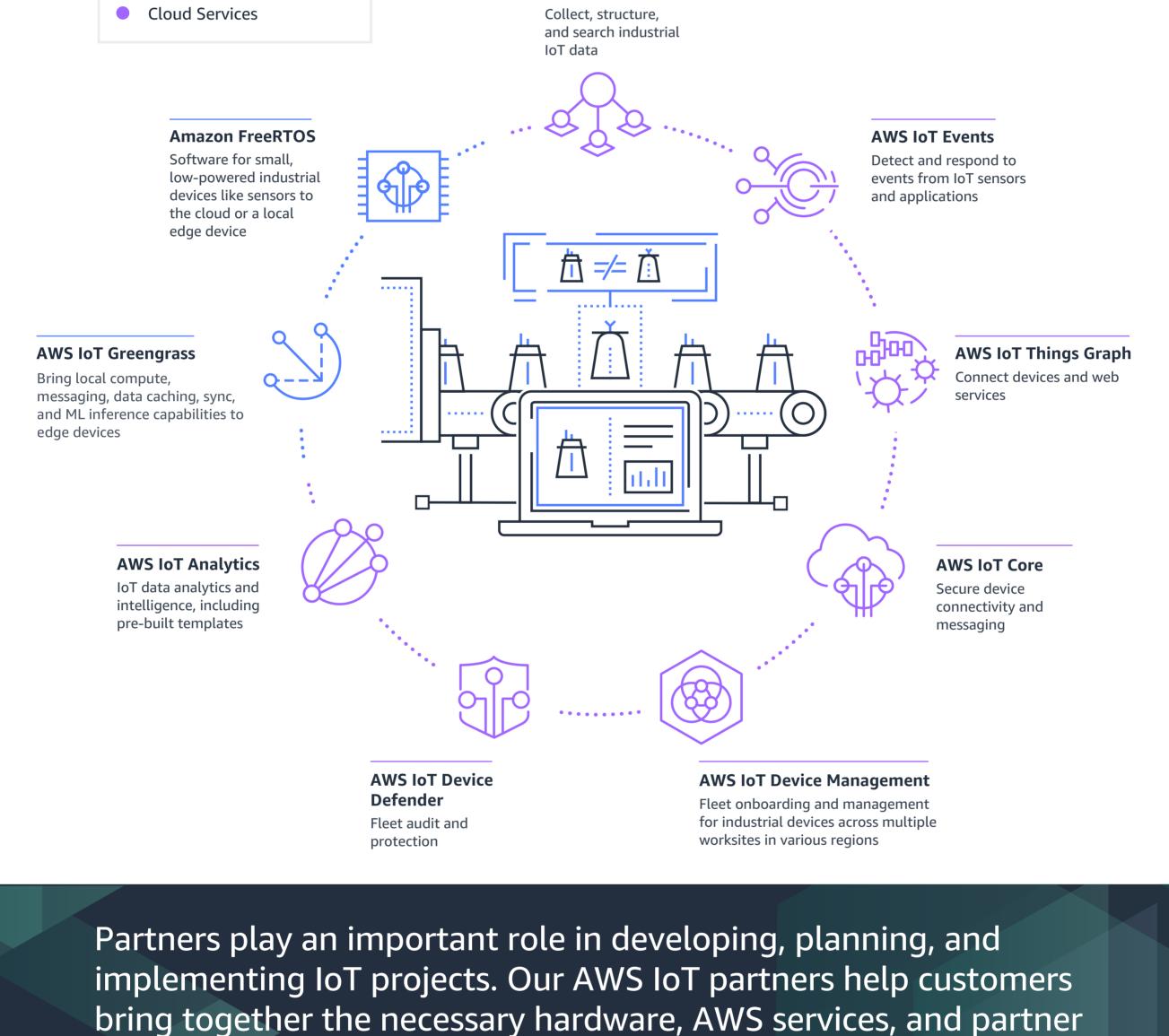
build predictive quality models using data from all the devices in their industrial environments and third party data inputs

Using AWS IoT software and services, industrial companies can

## **Edge Software AWS IoT SiteWise**

Complete the virtuous cycle and build predictive

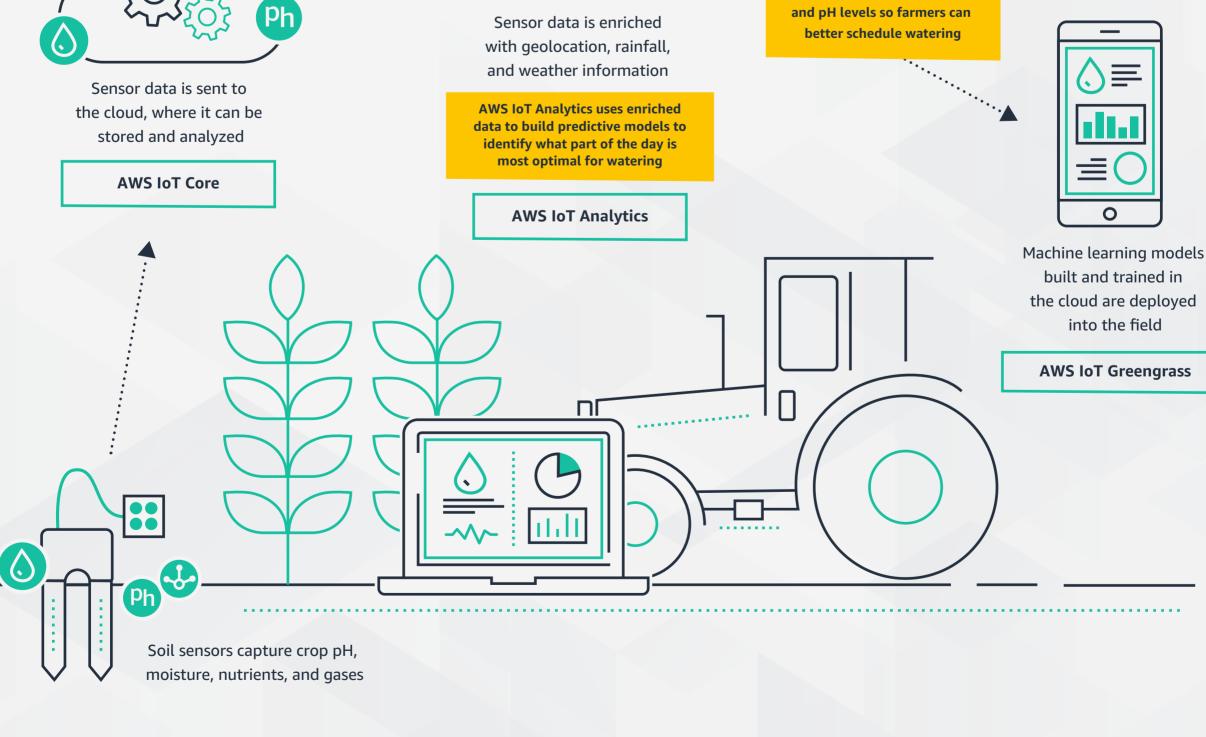
quality models in the cloud and deploy at the edge



**Predictive Quality in Action with AWS IoT** On a vegetable farm, farmers can identify vegetable growth stages to increase crop yield and deliver more — at a higher quality — each season

solutions to solve industrial business challenges.

Learn more about our AWS IoT Partner Community.



AWS IoT helps Teralytic reduce farmer costs and increase yield teralytic

AWS IoT to increase produce quality in greenhouse operations **YANMAR** 

Yanmar leverages

Machine learning models analyze temperature, humidity,

Amazon Web Services can transform your business

and help your organization rise to its digital future.

Learn more

https://www.consumerreports.org/recalls/home-products-recall-round-up/

**Sources:** 

<sup>•</sup> https://www.qualitydigest.com/inside/quality-insider-article/what-your-companyrsquos-cost-poor-quality.html