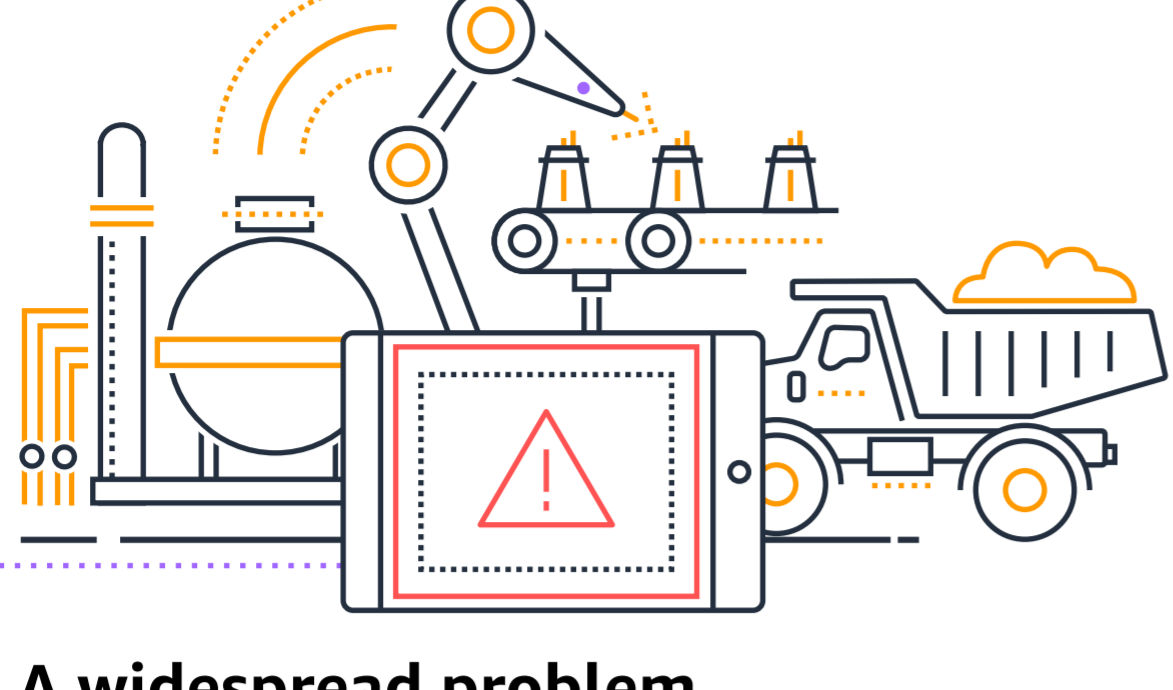


# Predictive Maintenance in Industrial Operations *with AWS*



Predictive Maintenance analytics helps you identify potential breakdowns before they impact production.

## ▶ Downtime: The most challenging—and costly—dangers



### A widespread problem



**82%** of companies have experienced 1+ equipment breakdown within 3 years, bringing operations to a halt for 4 hours on average

**Avg. of 2 outages**

Due to unplanned downtime\*:

**\$0.20-\$1.20**

of every \$20 is lost

**Up to 6% of revenue**

Millions lost per hour in a \$100M+ company

In a medical device company

**\$50K-\$150K** lost per hour

Up to **\$2M** lost per hour on an industrial critical asset

\*Includes outages, maintenance, and more

## ▶ Predictive maintenance can improve uptime and keep equipment operating at peak performance

With predictive maintenance, you can



Reduce maintenance costs



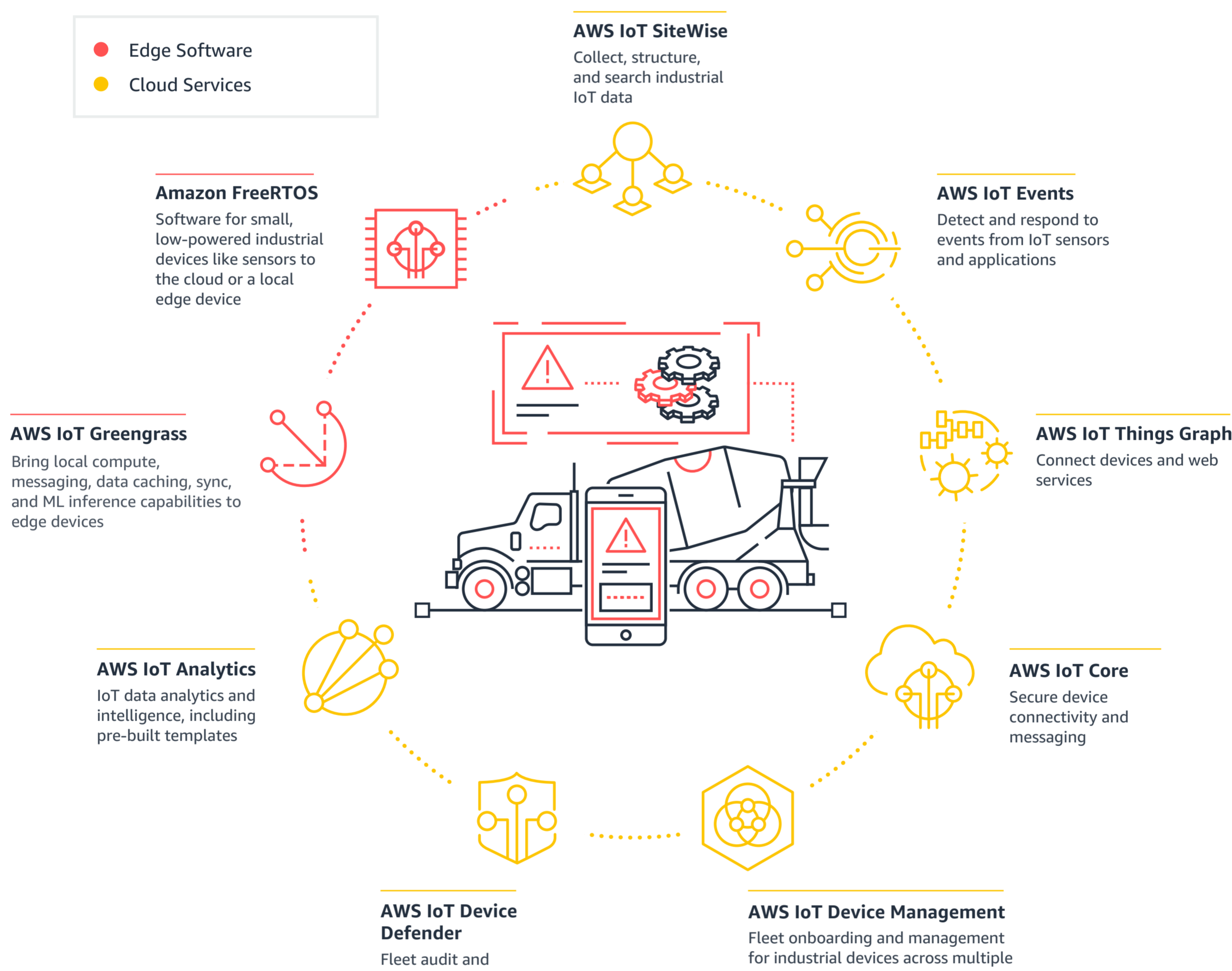
Improve overall equipment effectiveness (OEE)



Increase worker safety

Using AWS IoT software and services, industrial companies can build predictive quality models using data from *all* the devices in their industrial environments and third party data inputs

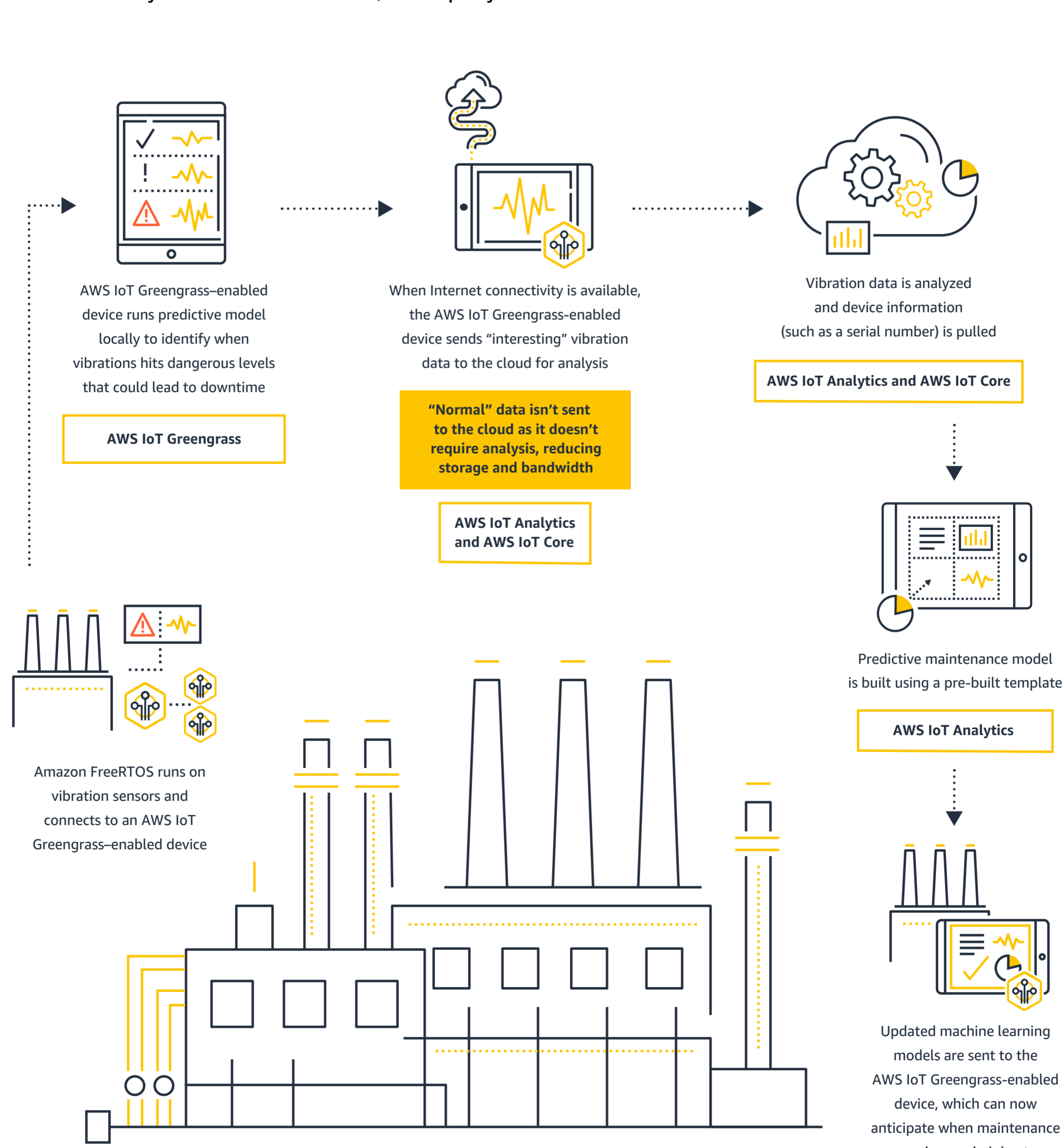
## ▶ Complete the virtuous cycle and build predictive maintenance models in the cloud and deploy at the edge



Partners play an important role in developing, planning, and implementing IoT projects. Our AWS IoT partners help customers bring together the necessary hardware, AWS services, and partner solutions to solve industrial business challenges. Learn more about our [AWS IoT Partner Community](#).

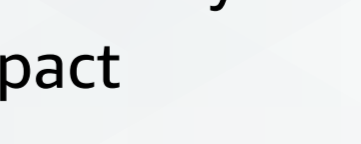
## ▶ Predictive Maintenance in Action with AWS IoT

In an oil refinery, predictive maintenance pays off—producing an extra quarter or half barrel per well each day could mean an extra \$200M per year in incremental revenue



Environmental Monitoring Solutions uses AWS IoT to detect fuel leaks early to minimize environmental impact—and received 500% ROI

[Learn more about AWS IoT and EMS](#)



Amazon Web Services can transform your business and help your organization rise to its digital future.

[Learn more](#)

Sources:  
• <http://lp.servicemax.com/Vanson-Bourne-Whitepaper-Unplanned-Downtime-LP.html>  
• <https://diginomica.com/2017/10/23/unplanned-downtime-transform-business-results/>  
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