

# Transform Your Factory Operations with Easy-to-Deploy Manufacturing Apps

Get real-time visibility into factory operations to proactively resolve issues and drive factory performance.



Manufacturing Apps:

## Providing Role-Based Insight Into Factory Operations and KPIs

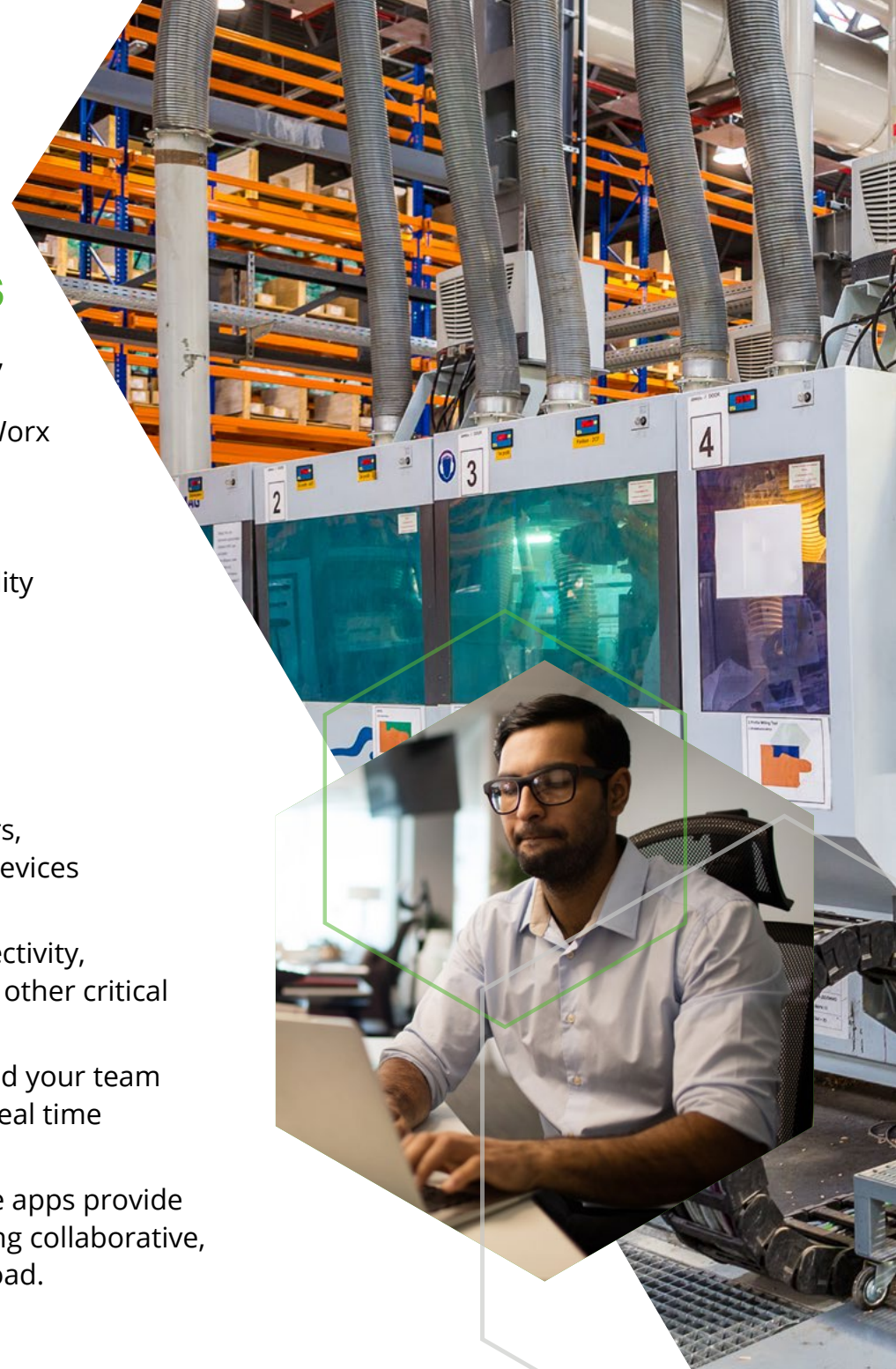
Manufacturers are under constant pressure to minimize downtime, improve quality, and respond faster to individual customer requirements, all while lowering costs. PTC's newly released ThingWorx Manufacturing Apps provide the solution.

Able to be installed in less than 60 minutes without disrupting production, these apps provide manufacturers with real-time visibility into factory floor operations so they can reduce downtime, and improve quality, productivity, and flexibility.

### ThingWorx Manufacturing Apps

- **Role-based starter apps** for Controls Engineers, Plant Managers, and Maintenance Professionals that connect disparate factory devices and machines
- **Improve real-time visibility** into production status, data connectivity, maintenance issues, operational efficiency, product quality, and other critical performance indicators
- **Fully web-enabled and accessible via any browser**, so you and your team members can monitor, analyze, and act on operational data in real time

Built on ThingWorx, the industry-leading IoT platform from PTC, the apps provide the right information to the right person at the right time — enabling collaborative, data-driven decision-making across the factory, without data overload.





Manufacturing Apps:

## Providing Role-Based Insight for Real-Time Decision-Making

Designed to overcome the specific challenges of particular factory roles, the ThingWorx Manufacturing Apps enable:



**Production Managers** to monitor the real-time state of the production floor, including line and machine performance — and make proactive adjustments to achieve daily production goals

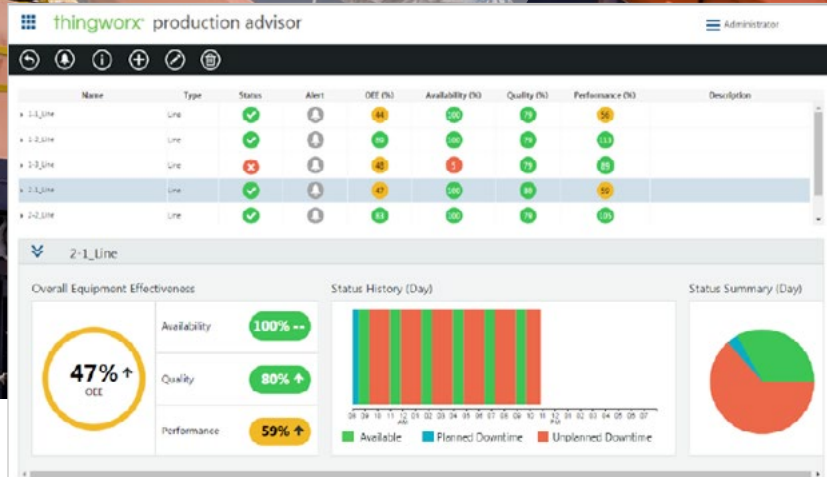
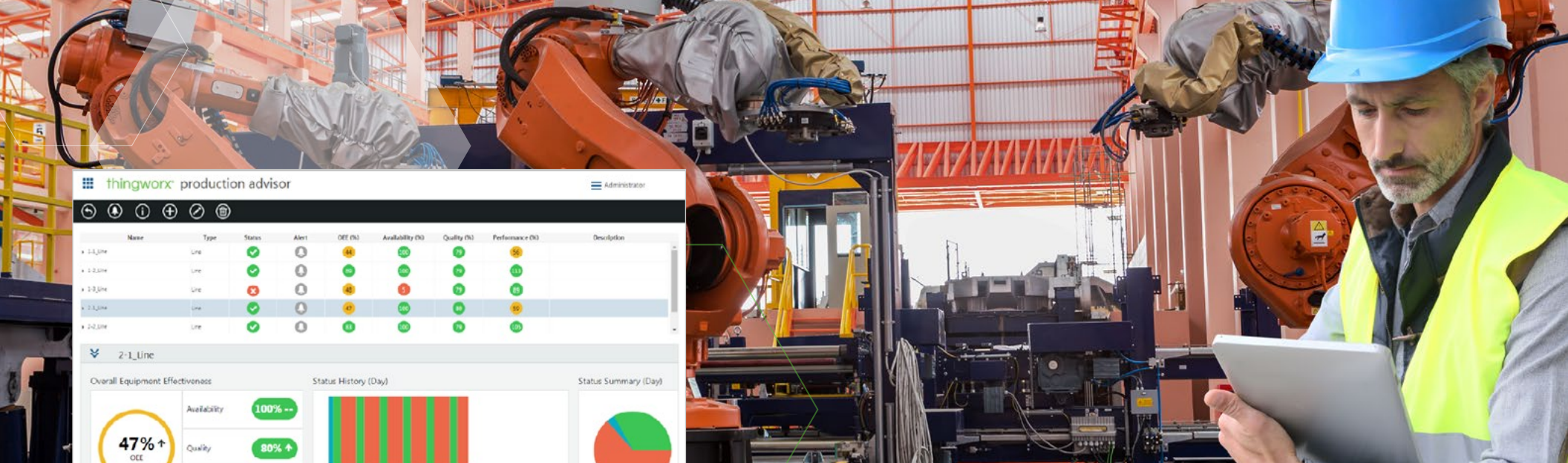


**Maintenance Managers** to get visibility into all assets across the factory floor on a single screen so they can proactively prevent machine downtime



**Controls Engineers** to instantly be notified when a PLC or device stops communicating and to use trending tools, event logs, and alerts to troubleshoot the problem remotely





## Production Advisor:

### Actionable Insight to Manage Critical KPIs

Production Advisor enables real-time visibility into line and machine status and performance so Plant Managers can get actionable insight into KPIs: availability, quality, and OEE. With integrated real-time machine and business data, Plant Managers can make more proactive and informed decisions, as well as drive continuous improvement.



## CAPABILITIES

- Real-time visibility into KPIs and issues for proactive problem resolution
- 360-degree view into operations, including historical trending
- Drill down into underlying line assets data for root-cause analysis and continuous improvement
- Integration of disparate operational and business data sources



## BENEFITS

- Improve data-driven decision-making for optimized performance
- Better quality outcomes
- Increase responsiveness to problems in production lines and assets
- Improve communication and performance between the shop floor and the top floor





## Asset Advisor: Real-Time Health Checks Keep Critical Assets Online

Asset Advisor enables Maintenance Professionals to gain visibility into the health and status of critical assets. This app provides real-time anomaly detection and condition-based monitoring, so Maintenance Professionals can make more informed decisions and proactively correct potential issues before they impact production.



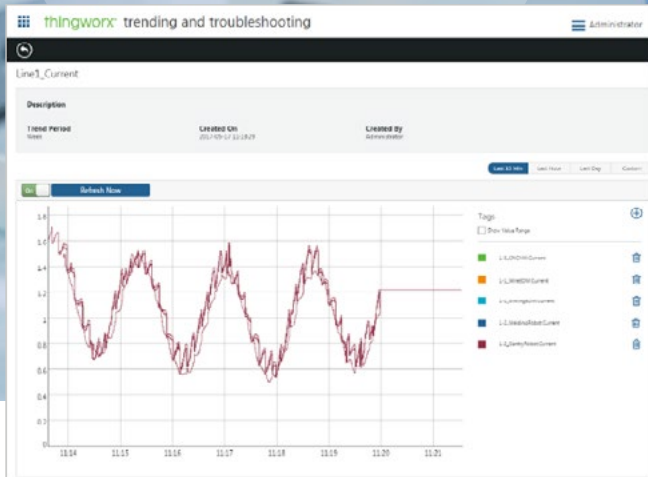
### CAPABILITIES

- Automatic remote notification when a machine signal or KPI deviates from normal behavior
- Real-time monitoring of all industrial assets, their status, and alarms
- Connects to all your industrial assets
- Instant text and email alerts for any server, tag, device, or machine issue



### BENEFITS

- Optimize maintenance planning, decision-making, and execution
- Reduce scrap and rework
- Reduce unplanned downtime with proactive issue identification
- Increase efficiency and flexibility
- Get real-time visibility into patterns and trends



## Controls Advisor: Real-Time Alerts and Analytics Reduce Unplanned Downtime

The Controls Advisor app is designed to help Controls Engineers remotely visualize, monitor, and troubleshoot industrial data and machine connectivity in real time, and provide instant notification of data communication errors. With real-time alerts and rapid tag trending, Controls Engineers can improve data quality and reliability, while reducing unplanned downtime.



### CAPABILITIES

- Receive instant text and email alerts for any server, device, or tag issue
- Trend any PLC tag in minutes
- Create alarms and issue text and email notifications for any tag
- Remotely troubleshoot PLC issues
- Get real-time connectivity to existing factory assets through OPC servers



### BENEFITS

- Quickly determine root cause analysis for faster issue traceability and resolution
- Gain insight into connectivity errors
- Reduce unplanned downtime
- Increase flexibility through enhanced remote capabilities

# ThingWorx® Manufacturing Apps

The ThingWorx® Manufacturing Apps are easy-to-deploy, pre-configured role-based apps that enhance visibility, productivity, and performance across the factory. The apps work with KEPServerEX® and other OPCs to provide seamless connectivity and real-time data visualization.

- **ThingWorx Production Advisor** — Provides Production Managers with real-time visibility and remote insight into production line performance and status
- **ThingWorx Asset Advisor** — Enables Maintenance Teams to remotely monitor and detect anomalies across all assets
- **ThingWorx Controls Advisor** — Enables Controls Engineers to remotely monitor and troubleshoot machine connectivity

**For more information, register to access the ThingWorx Manufacturing Apps portal to download your free edition.**



©2017, PTC Inc. All rights reserved. Information described herein is furnished for informational use only, is subject to change without notice, and should not be taken as a guarantee, commitment, condition or offer by PTC. PTC, the PTC logo, Product & Service Advantage, Creo, Elements/Direct, Windchill, Mathcad, Arbortext, PTC Integrity, Servigistics, ThingWorx, ProductCloud and all other PTC product names and logos are trademarks or registered trademarks of PTC and/or its subsidiaries in the United States and other countries. All other product or company names are property of their respective owners.