

MARCH 2023

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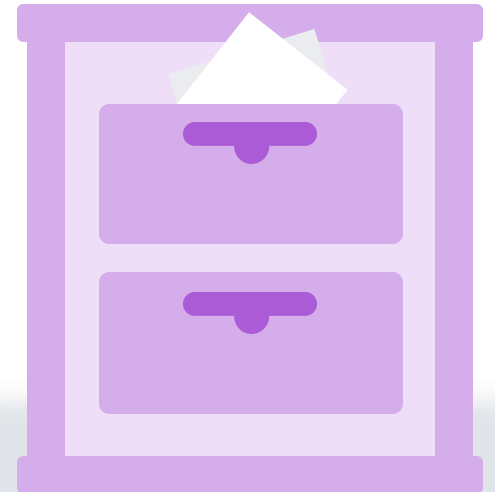
# The Mobile Operator

An Introduction to AVEVA Mobile Operator Rounds

ASCA Product Specialist Team

**AVEVA** | **SELECT**  
CALIFORNIA

# The traditional approach – LPF syndrome



Information  
documented  
on paper, maybe....

Paperwork is Lost

Paperwork is Piled

Paperwork is Filed

# Failure to identify hazards

- **76%** of equipment failures are directly related to **improper operation** of equipment.
- **82%** of all components fail randomly. These failures are most often caused by **neglecting the basic care** of equipment.
- **60%** of all safety incidents in maintenance departments occur during **reactive work**.
- **70%** of equipment failures happen shortly **after initial installation or major maintenance**.

The front-line workforce has the opportunity to radically **improve plant reliability and operational profitability**.

<sup>1</sup>Koseric, N. "Defect Elimination Conference" 2005

<sup>2</sup><http://www.arcweb.com/Lists/Posts/Post.aspx?ID=260>

<sup>3</sup><http://www.idcon.com/article-reliability-maintenance-recessionary-market.html>

<sup>4</sup>Dennis Berlinger and Saxon Smith, MRG Inc., "The Business Case for Reliability," as published at [www.reliabilityweb.com/rcm](http://www.reliabilityweb.com/rcm)



# AVEVA Mobile Operator

## Digital workforce enablement

- Enables cultural change and best practices to drive reliability at the front line
- Reduces maintenance costs by improving asset reliability and availability.
- Ensures workers execute all field tasks required to achieve reliable operations and maintenance
- Prevent potential “Critical” failure of assets
- Mitigate risk of intolerable economic, safety, and/or environmental consequences
- Eliminates lost data and reduces entry errors when capturing key asset and operational information.
- Provides a holistic operations and maintenance view by integrating with your existing OT/IT infrastructure.

Collects, standardizes, and stores data from unconnected assets

Standardizes field crews’ interaction with assets

Consolidates manually collected and real-time data in one interface

Integrates with existing maintenance systems

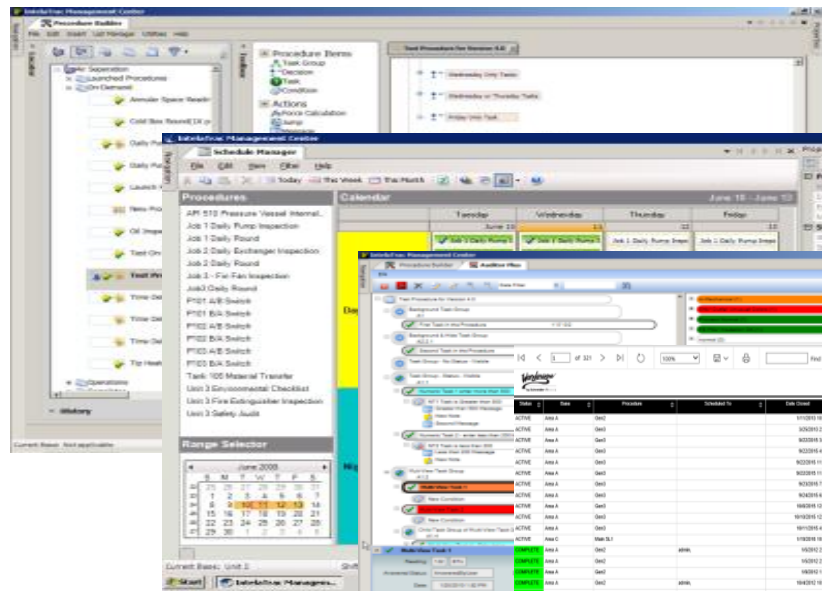


ExxonMobil

AVEVA

# Combined hardware & software solution

## Complete Mobile Operator Round platform



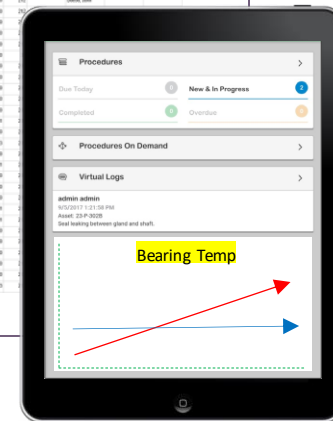
**Procedure builder**— advanced procedure configuration

**Schedule manager**— advanced scheduling & workload balancing

**Auditor plus**— work process and procedure review

**SSRS reports** — configurable reports, emailing

**Mobile** — procedure execution



# Mobile workforce enablement

## Empower the operator

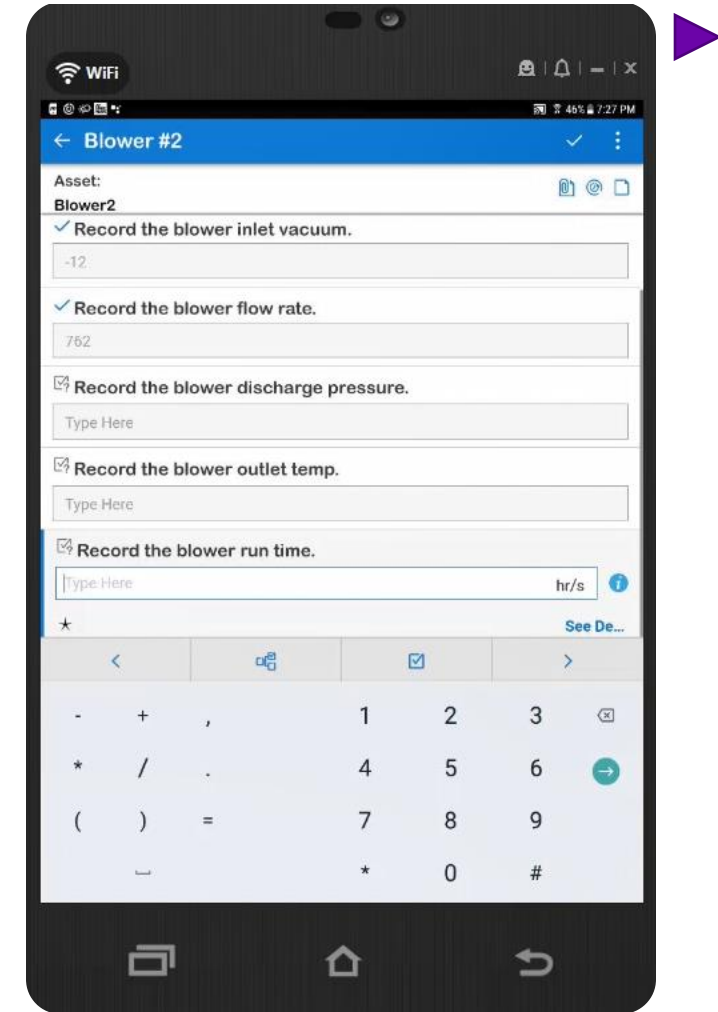
- Multiplatform mobile device support (BYOD)
  - Android, Windows 10, and iOS
- 3<sup>rd</sup> party software integration with SDK
- Mobile data capture and recall
  - Notes, Details, Historical Trends, Pan & Zoom
- File attachments
  - Documents, Images, Videos



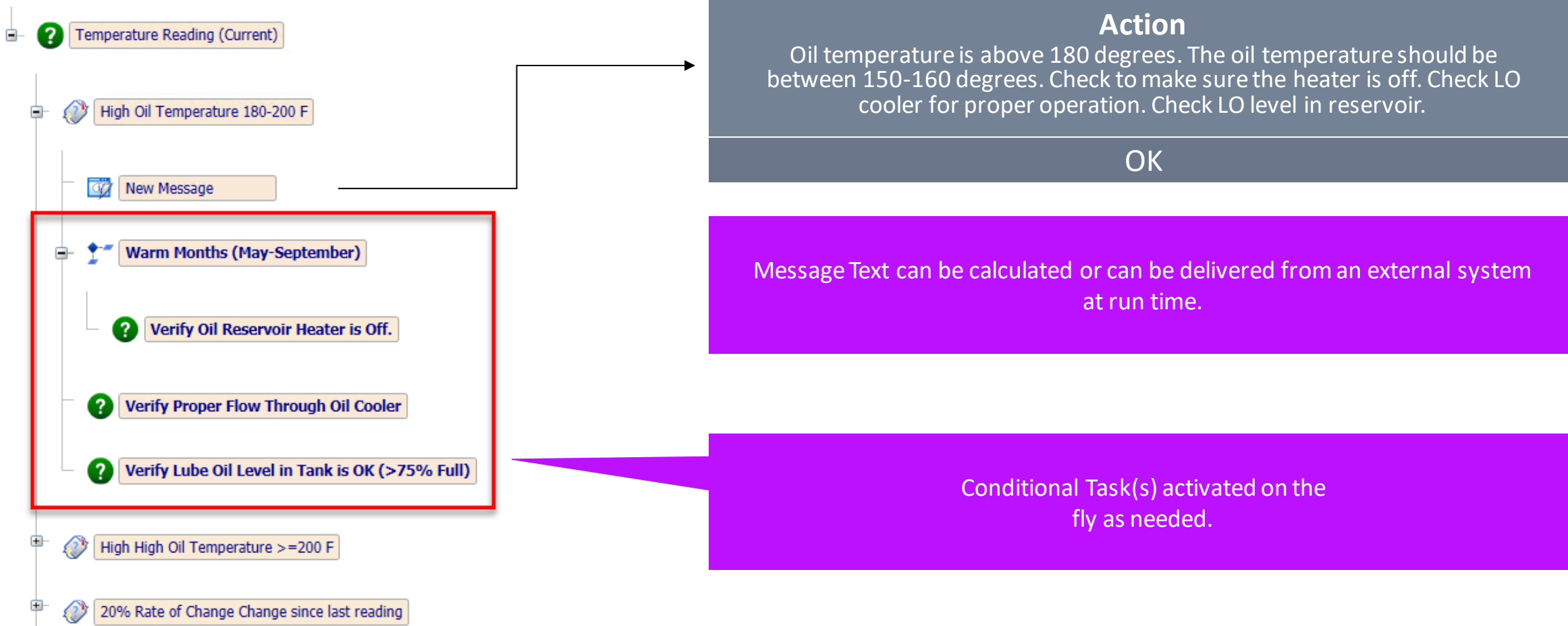
# Mobile decision support and execution system

## Mobile – Rounds & procedures

- Field user is presented with a list of tasks
- Using defined pick lists
- Device/Virtual keyboard
- Peripherals



# Enhanced situational awareness





# Enhanced situational awareness

- High High Oil Temperature >=200 F
- New Message
- New Work Order Request
- Launch Shutdown Procedure
- 20% Rate of Change Change since last reading
- 15% Change in last 7 readings

Dynamically launch another mobile operator procedure

### Work Order Request

- ✓ Location/Asset  
Truck
- ✓ Reported By  
MCADMIN
- ★ Description  
Type Here
- Long Description  
Type Here
- ★ Priority  
Select Options
- ★ Work Type  
Select Options

View existing work request(s) or if needed, create a new WOR

Mobile Operator 2020

### Work Order Requests

All Assets

Sort by

Location/Asset	PL
Description	pump101 swap to spare
Long Description	temp high, oil low, need to swap pump

In Progress

# Integrations

Integrations allows for data to be pushed/pulled to 3<sup>rd</sup> party systems. Additionally, new integrations can be added to Mobile Operator to accomplish custom functions or communicate to 3<sup>rd</sup> party software that is not currently supported.

Some examples of integrations are:

## Supported Historian

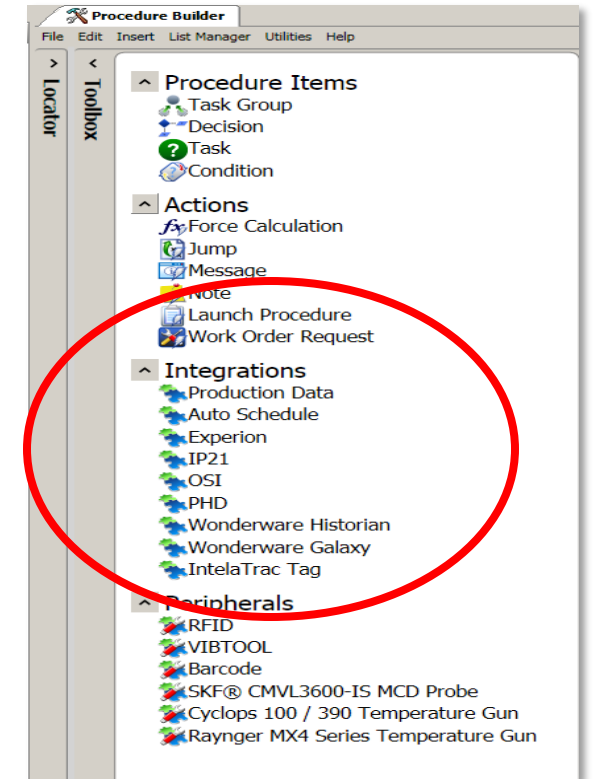
- AspenTech IP21
- Honeywell PHD
- AVEVA PI
- AVEVA Historian
- AVEVA System Platform

## Supported EAM/CMMS

- IBM Maximo
- SAP
- Infor

## Custom

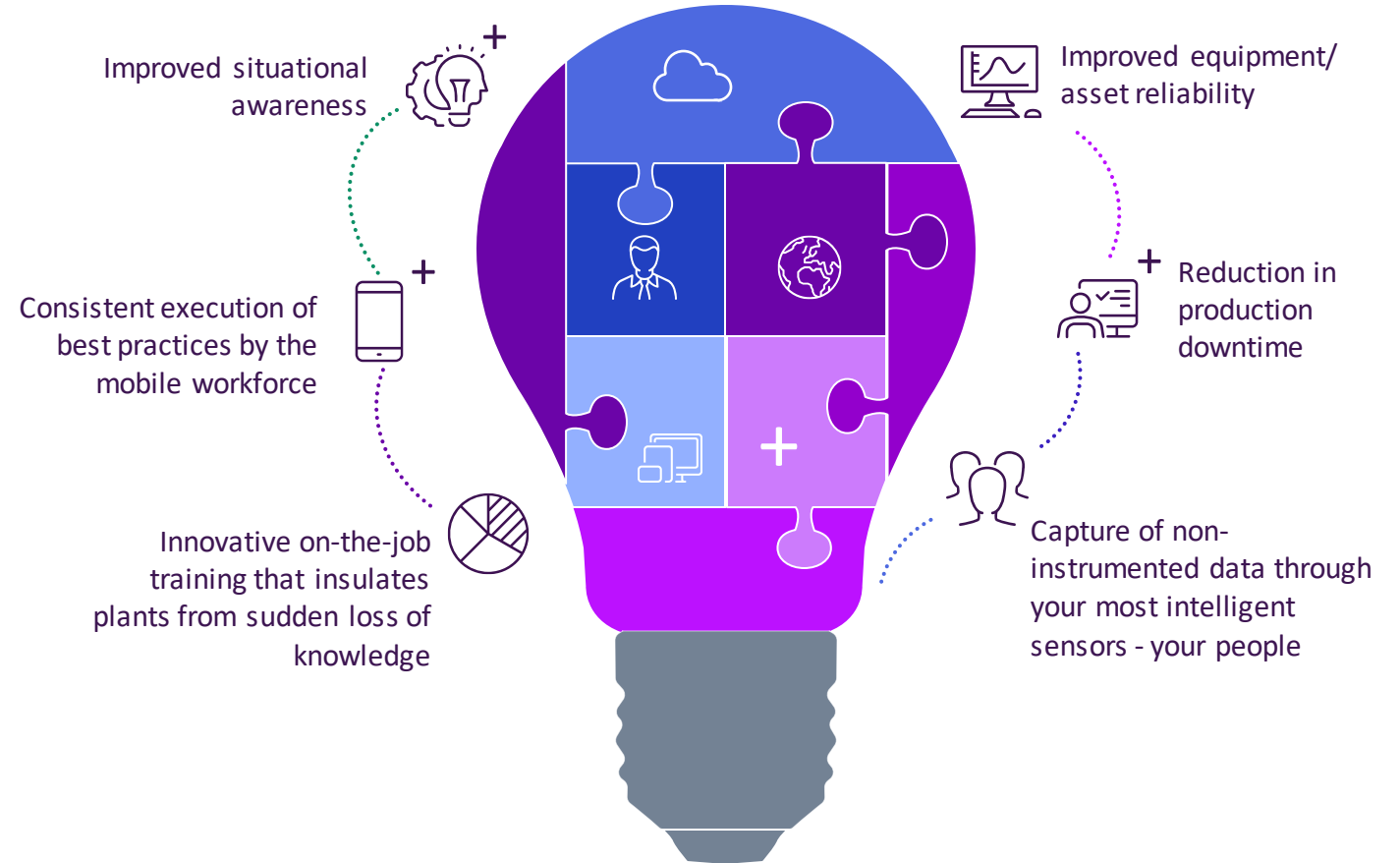
- Primavera
- LIMS
- Shift Reports
- GE Energy's System 1
- Document Management
- GPS for Android
- Production Data
- Tietonator EC



# Integrated operator workflow ROI

Industries have seen the following improvements in their workforce when performing Integrated Operator Workflow:

- Asset uptime/availability 10-30%
- Reduced Maintenance Costs & Mechanical Effectiveness 5-30%
- Increased Workforce Productivity 20-30%+
- Regulatory Compliance visibility >30%
- Increase in visibility to non-instrumented data 20-30%+
- Typical payback in 6-12 months



## HIGH PERFORMANCE, GREAT SAVINGS

Real customer savings achieved from implementing mobile operator rounds with IntelTrac



**88%** reduction in pump failures  
in the first year saving **\$500,000**



**66%** reduction in costs of seal replacement



**\$875,000** savings due to reduction  
in production downtime



**\$800,000** reduction in maintenance costs



**\$225,000** saved in increased  
productivity of PM to operations



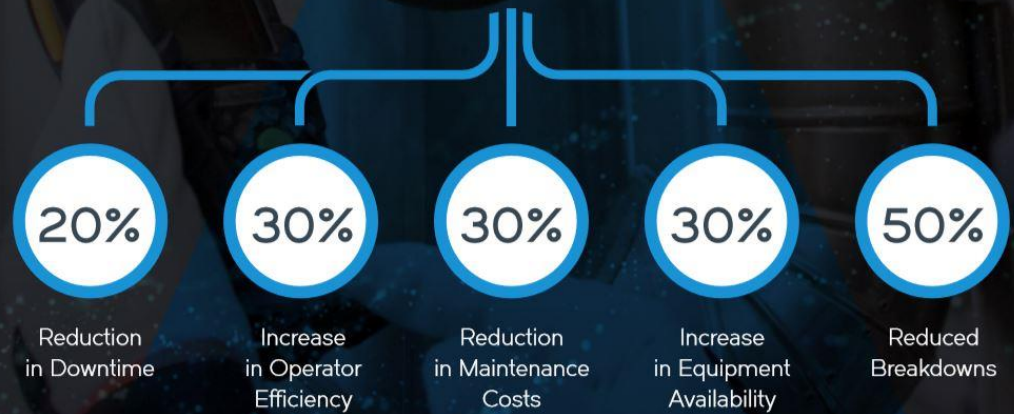
**\$80,000** saved in training, knowledge transfer  
and reduced mean time to permit



"Using IntelTrac has made a major contribution to reaching a plant availability factor above **90%**, since it has integrated perfectly with the other innovations added to our equipment."

- **Mauro Tassistro**, Applications Team Leader, Infineum

## IT'S ALL ABOUT RETURN ON INVESTMENT!



# Mobile Workforce and Decision Support System

Pima County, Arizona, USA



50% Increase in  
Operational Efficiency



10% Decrease in  
Energy Consumption



Over 700 miles  
of wastewater assets





Pima County implemented a situational awareness strategy to improve operational efficiency of their wastewater facilities utilizing AVEVA System Platform, InTouch HMI, Historian, and Mobile Operator Rounds.

• Date

• Title

• Subtitle

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ABOUT AVEVA

AVEVA is a global leader in industrial software, driving digital transformation and sustainability. By connecting the power of information and artificial intelligence with human insight, AVEVA enables teams to use their data to unlock new value. We call this Performance Intelligence. AVEVA's comprehensive portfolio enables more than 20,000 industrial enterprises to engineer smarter, operate better and drive sustainable efficiency. AVEVA supports customers through a trusted ecosystem that includes 5,500 partners and 5,700 certified developers around the world. The company is headquartered in Cambridge, UK, with over 6,500 employees and 90 offices in over 40 countries.

Learn more at [www.aveva.com](https://www.aveva.com)

