

IBM AI Applications

# Evolution of EAM and Asset Performance Management

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**Joe Berti**  
VP Product



Partnering to empower your Digital  
Transformation

AVEVA™

IBM

# No longer experimenting...

# Next-generation needs are driving operations



AI is now embedded



Digital twins



Enterprises have  
embraced digital  
transformation



Sustainability projects



Condition-based  
monitoring accelerated



Robotics

# To enable intelligent maintenance and management

- Machines retrofitting
- 360 View on aggregated operational data
- Intelligent maintenance workflows with AI
- Secure, cloud enabled

## Data integration and Visualization

Operational insights with real-time data integration, storage, normalization, analytics, and visualization with OSIsoft PI Server, OSIsoft PI Visualization Suite, and Edge Data Store.

## Digital Twin

Operationalize innovation with a wide range of downloadable digital twin content; predictive models, failure modes, bill of materials, engineering manuals and more.

## Visual inspection

Maximo Visual Inspection monitors asset performance with computer vision and sends alerts to AVEVA Insight

## Sensors

Machine retrofitting with Wi-care™ solution integrated to OSIsoft PI Server via Edge Data Store

## Asset Maintenance

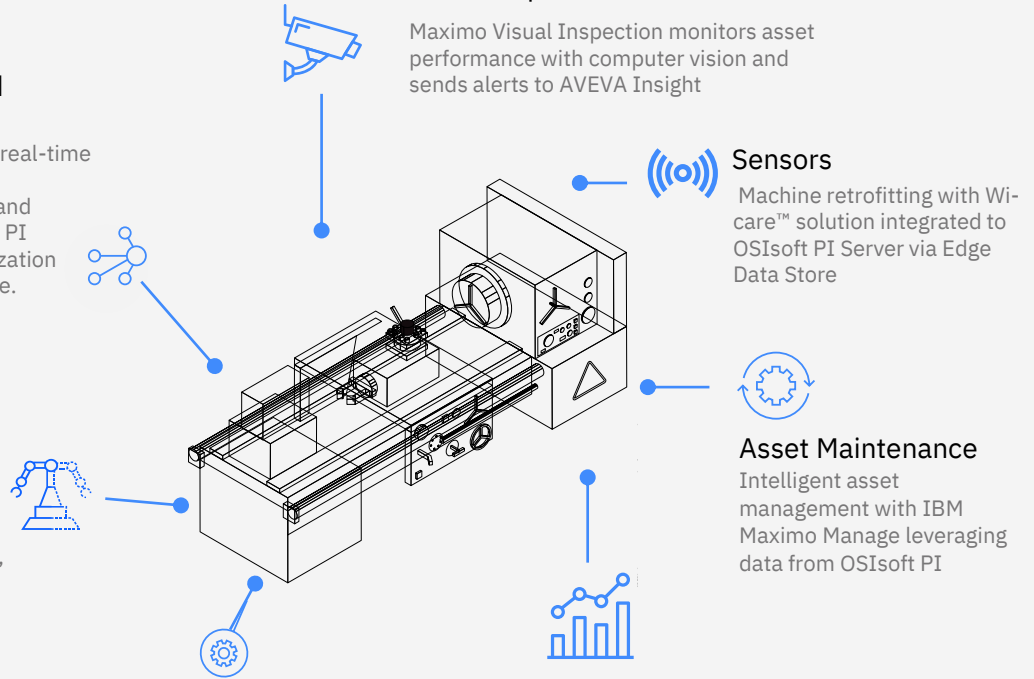
Intelligent asset management with IBM Maximo Manage leveraging data from OSIsoft PI

## Predictive failure

With Maximo, technicians assisted by AI, can determine component failure, tuned with AVEVA Insight

## Real time remote monitoring

Monitor and detect anomalies with AVEVA Insight and create work orders and inspections in IBM Maximo Manage



# IBM Digital Twin Exchange is a part of your Automation Journey

Currently  
collecting the  
data to setup  
equipment  
takes  
months/weeks.  
It could be  
done in minutes

Easily find the required  
digital content from **IBM Partners**



Asset Health &  
Failure Models



Operations  
Performance  
Monitoring Model



Forecast &  
Prediction Model



Asset Monitor  
Dashboards



Asset Health  
Scoring Methods



2D/3D CAD Files



AR/VR  
Models



Building  
Information Models  
(BIM)



Maintenance  
Plans



Remote procedures  
for the technician  
of the future



Bill of Materials



Stocking Strategy



User/Engineering  
/Maintenance  
Manuals

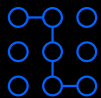


Parts List

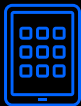


Fault Codes

# Connected maintenance, from the factory to the field



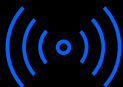
Remote assistance



Work Execution



Inspections



Asset Health



AI-Based assistance



Asset operating history



Asset & digital twin info



Safety sensors





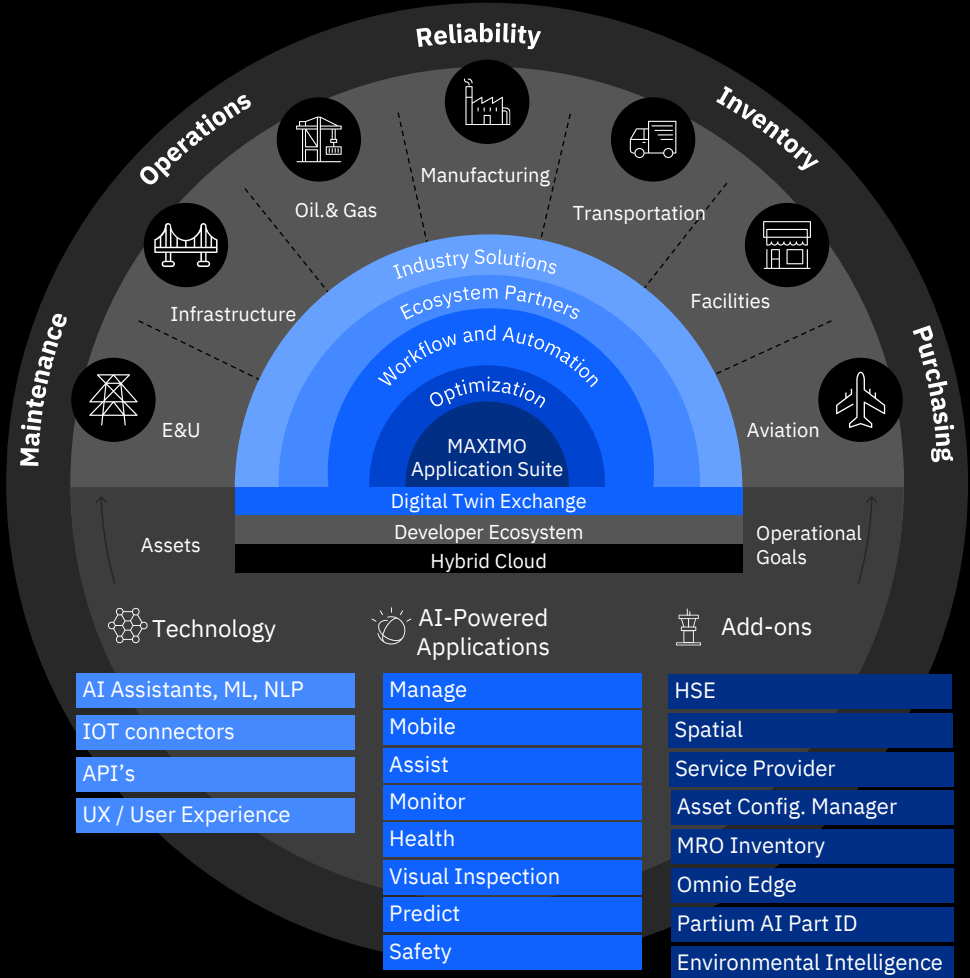
# MAXIMO APPLICATION Suite: Operations Optimization platform

Powered by AI-based Automation

The next generation of Operational Technology (OT) solutions requires bringing new intelligence that did not previously exist.

Enhancing physical assets operations with rich digital insights helps companies transform their businesses.

Lastly, the solution must be plug and play able to quickly integrate to existing solutions



Thank you



# IBM Maximo