

AVEVA PI WORLD

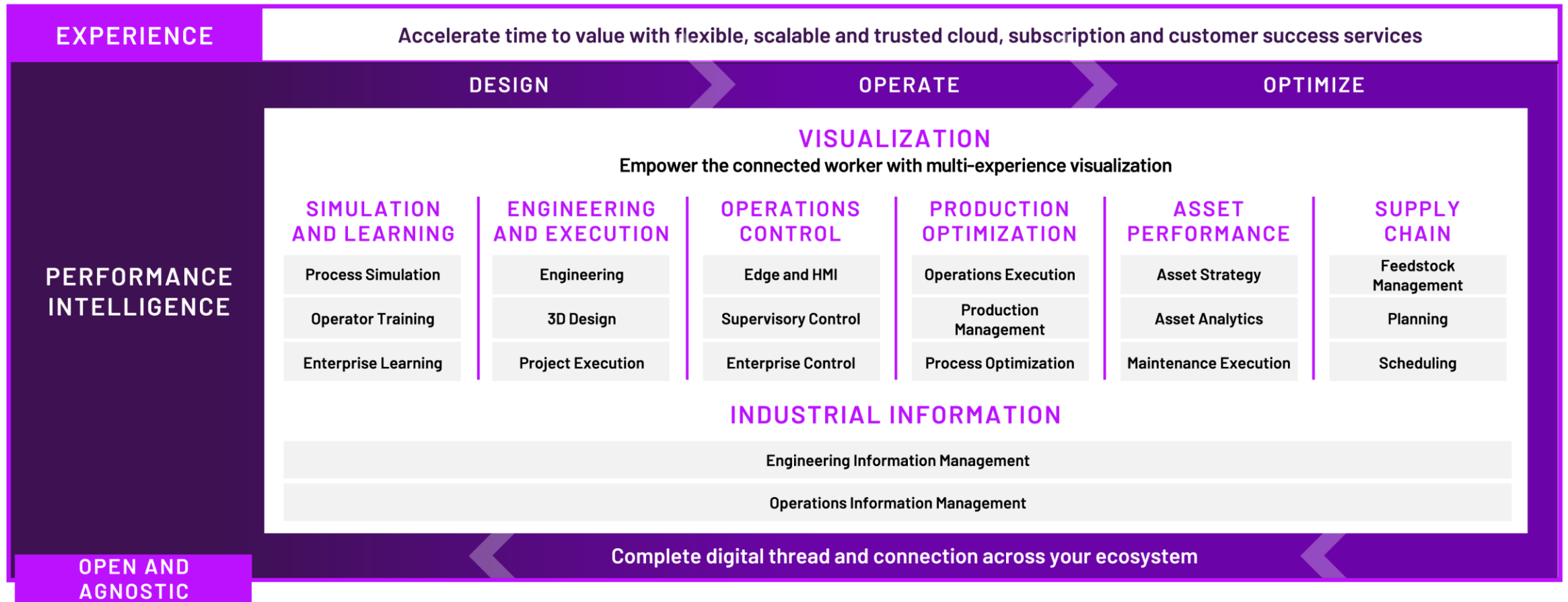
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# Turning operations data into intelligence

Presented By: Jonathan Pegg and Rohan Vettiankal

# Unlocking Performance Intelligence

Accelerating digital transformation of the industrial world





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TURNING OPERATIONS DATA  
INTO INTELLIGENCE

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## From data to intelligence

A quick recap

## The modern PI System in action: On-prem

Overview + Demo

## The modern PI System in action: Cloud

Overview + Demo

## What to look out for at AVEVA PI World

PI System content @ AVEVA PI World

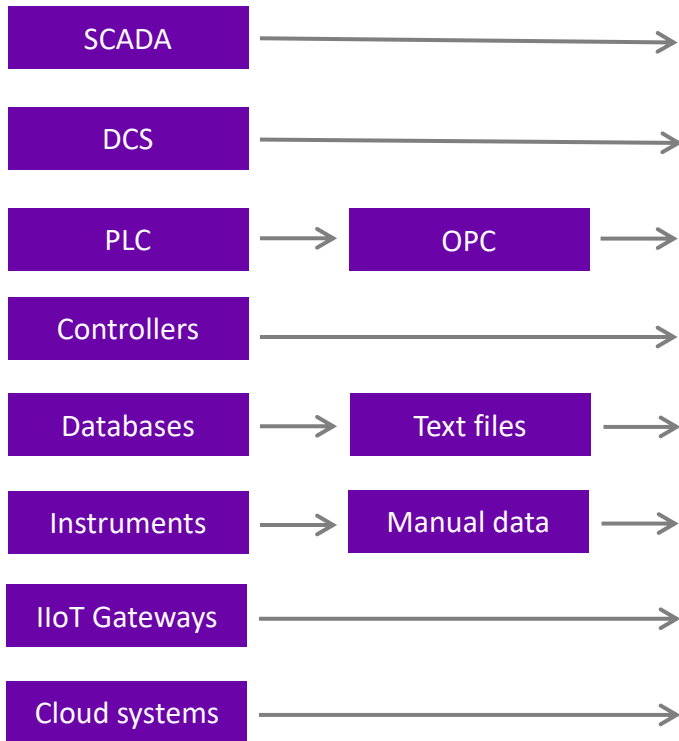
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From data to intelligence.  
A quick recap.

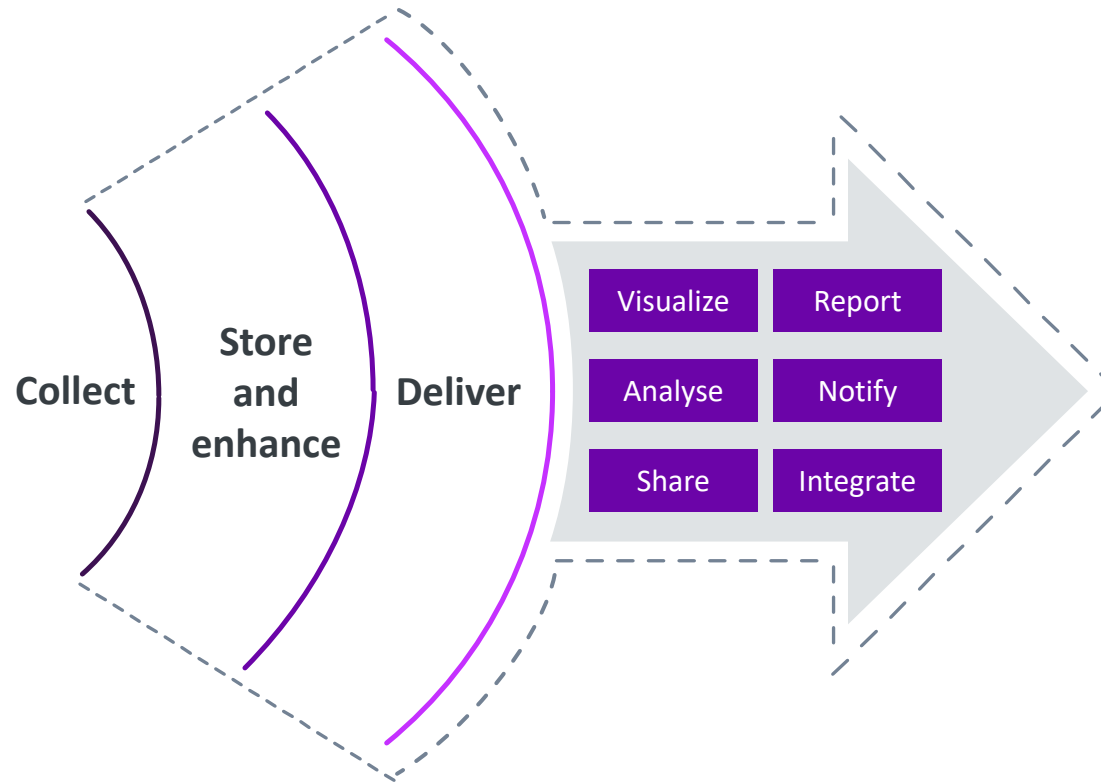
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# Taking a data infrastructure approach to managing operations data

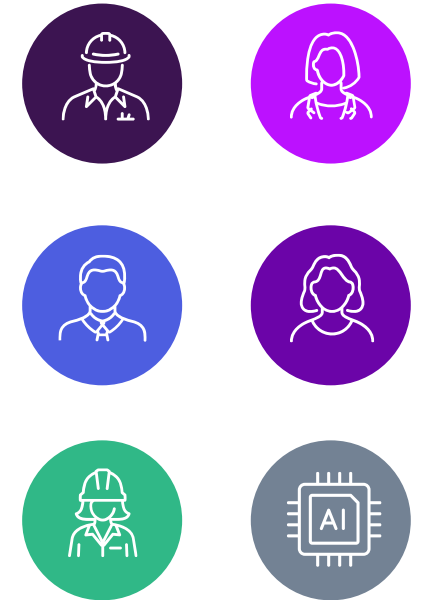
## Operations data sources



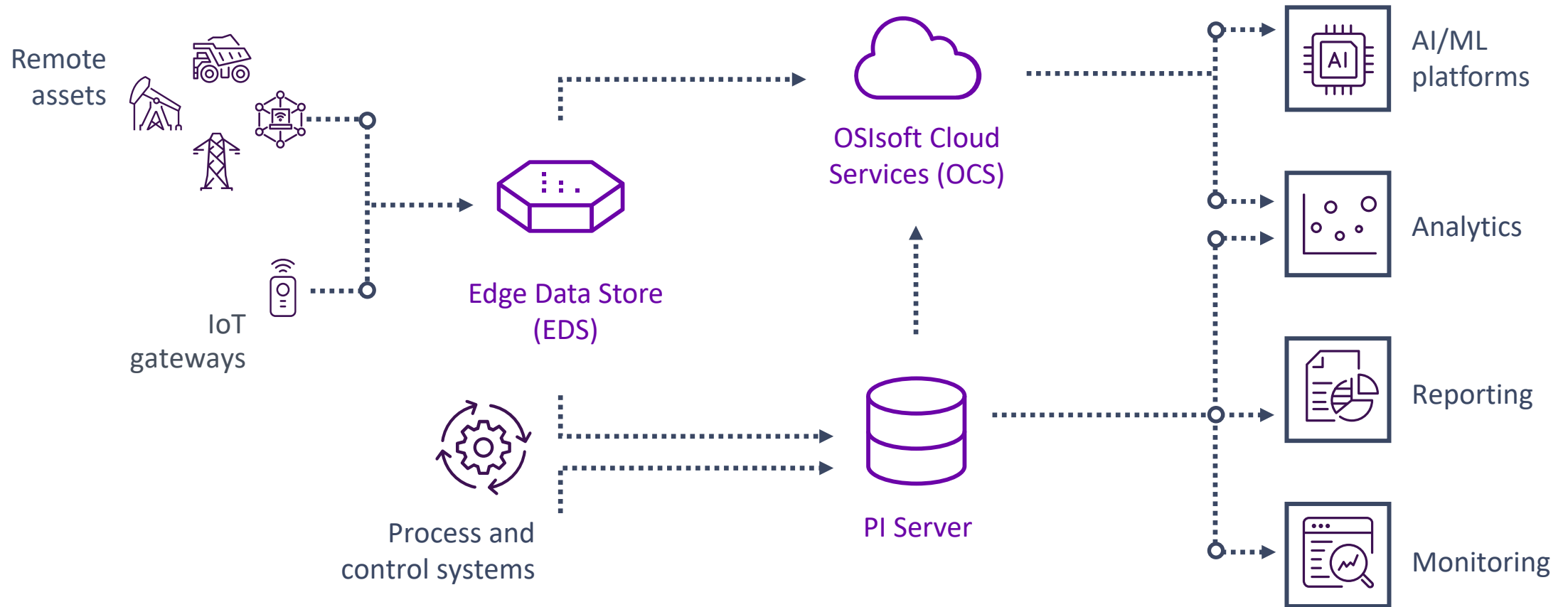
## PI System



## Data consumers



# PI System enables edge-plant-cloud visibility and intelligence



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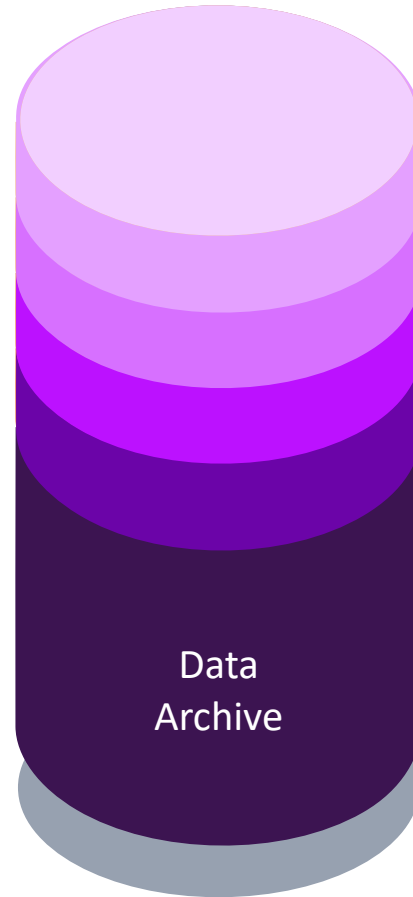
# The modern PI System in action: On-prem overview

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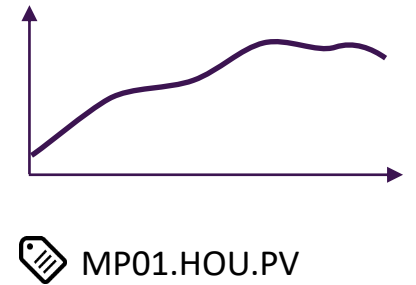


# PI Server turns raw operations data into decision-ready information

- PI Server is the real-time data storage, normalization, analytics, and notification engine at the heart of PI System.
- Single source of truth for all users
- Layered capabilities enhance operations data

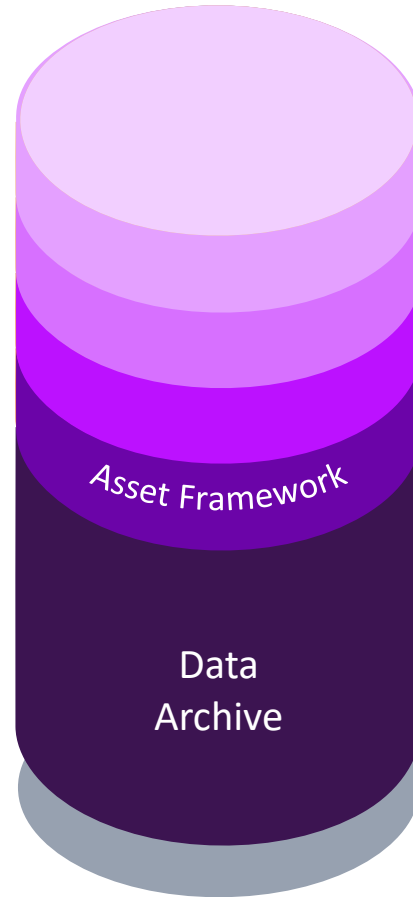


PI Server

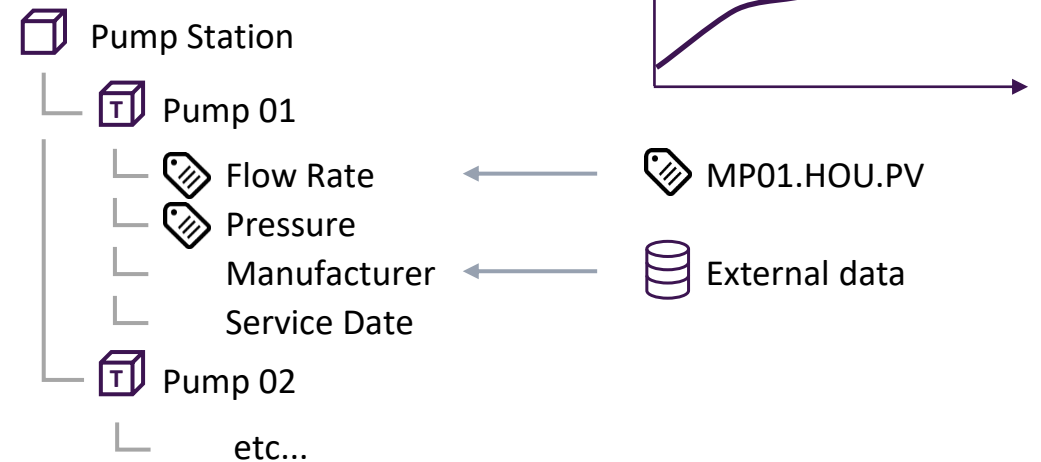


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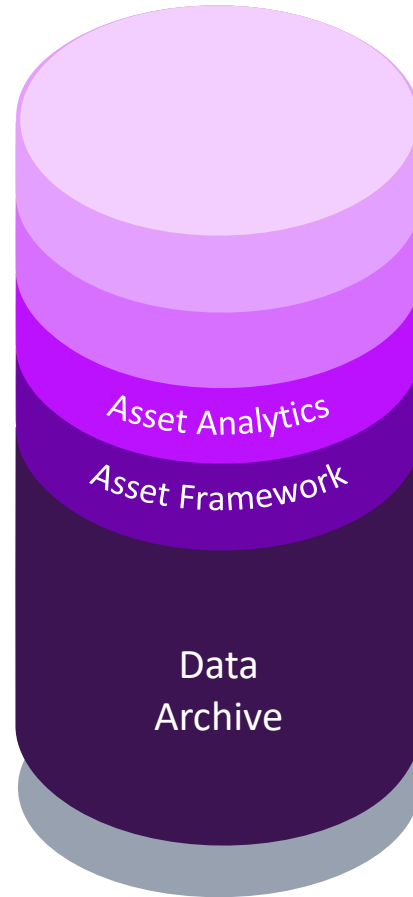


PI Server

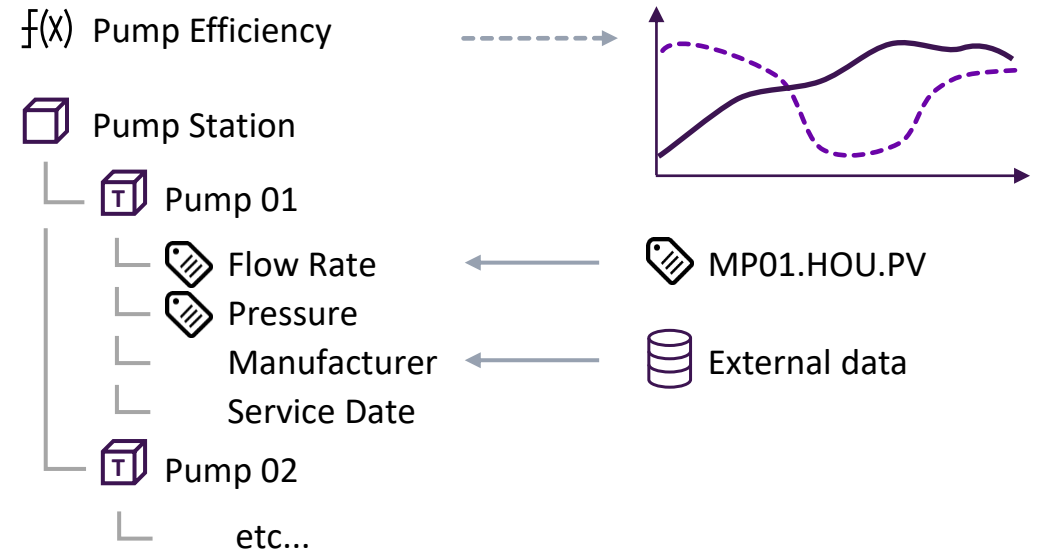


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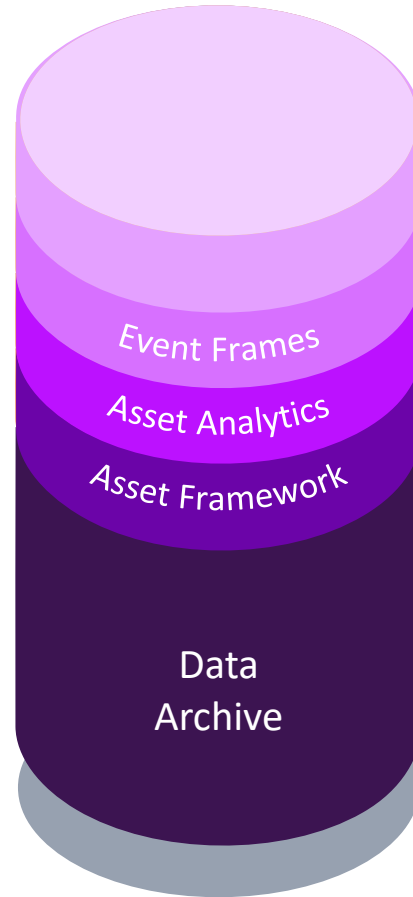


PI Server



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PI Server

⌊-⌋ Low Efficiency Event

$f(x)$  Pump Efficiency

⌊ Pump Station

⌊ T Pump 01

⌊ ⌊ Flow Rate

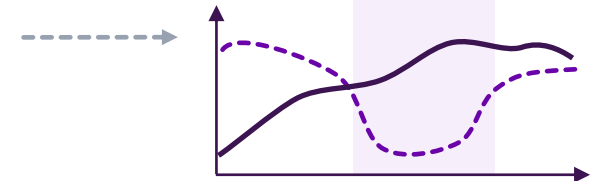
⌊ ⌊ Pressure

⌊ ⌊ Manufacturer

⌊ ⌊ Service Date

⌊ T Pump 02

⌊ etc...

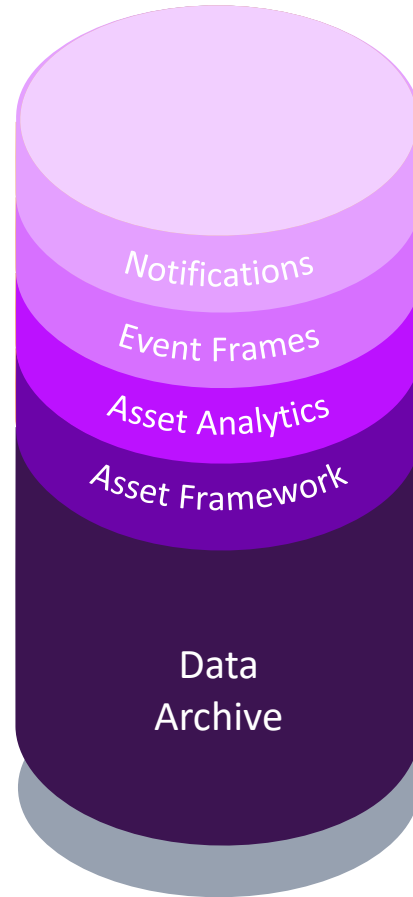


⌊ MP01.HOU.PV

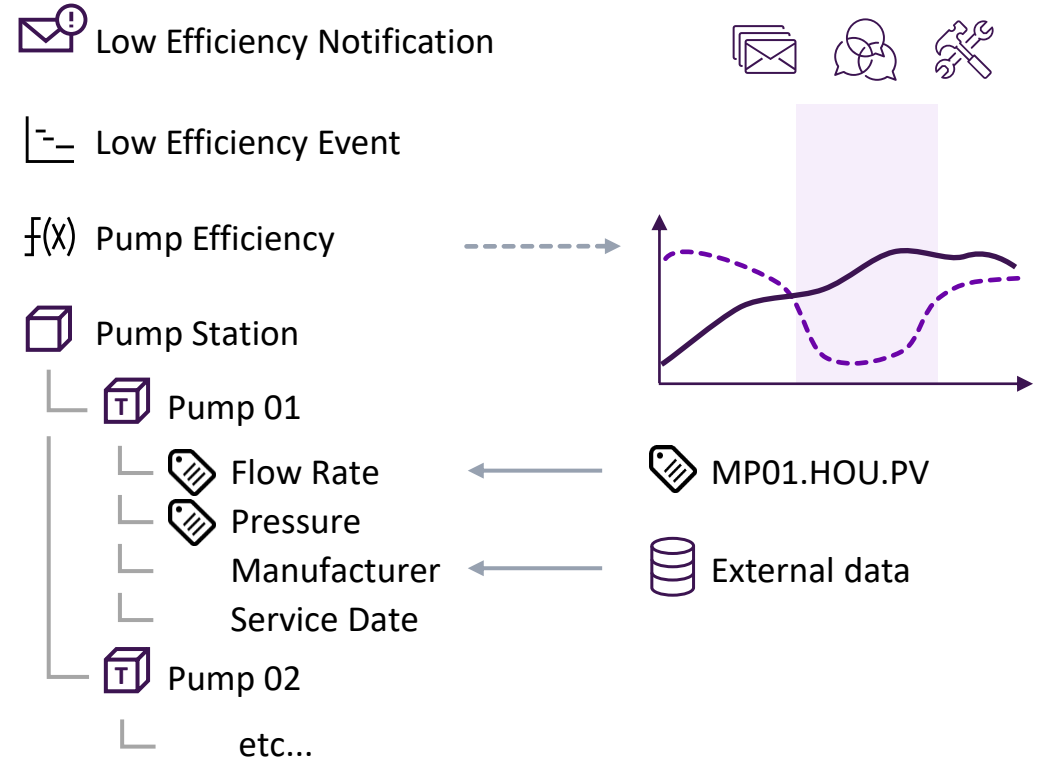
⌊ External data

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PI Server

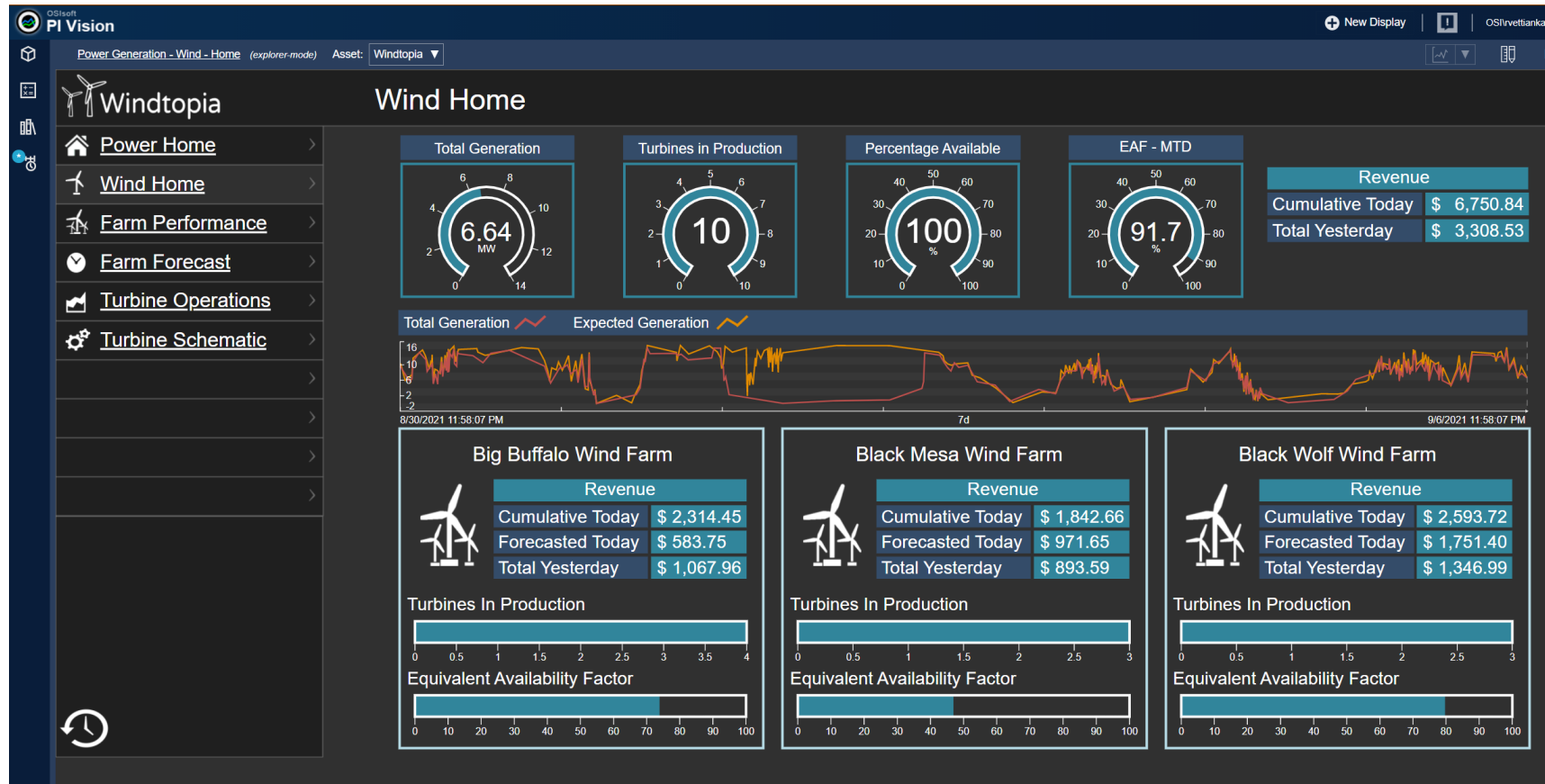


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# The modern PI System in action: On-prem demo

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# PI Vision demo placeholder



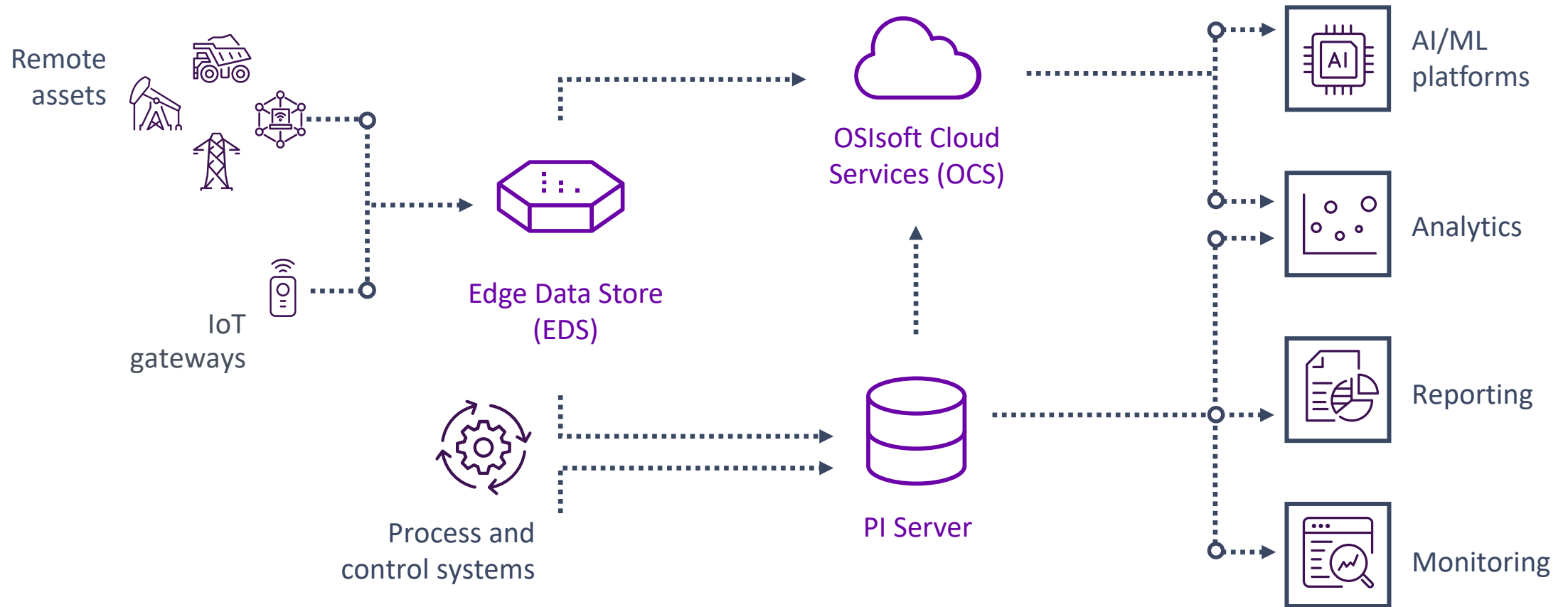
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# The modern PI System in action: Cloud overview

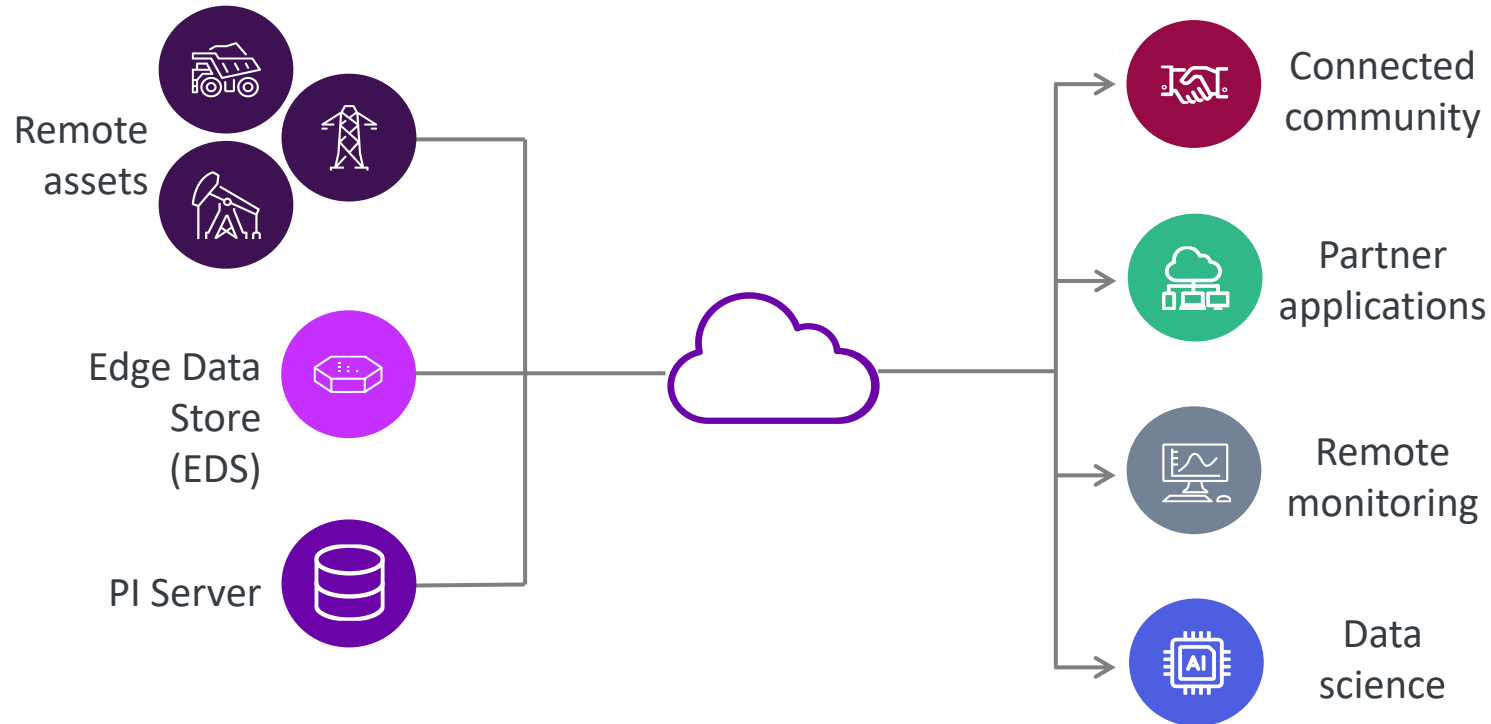
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# PI System enables edge-plant-cloud visibility and intelligence



# OCS: breaking down barriers, enabling new business models



## CLOUD-NATIVE

- Managed, secure, multi-tenant
- Operated & maintained by AVEVA
- Built & deployed on Azure

## CONNECTIVITY

- Natively connects to PI Server, Edge Data Store, PI Adapters or OMF applications
- Modern, secure REST APIs

## PERFORMANCE

- High-speed, scalable, elastic, resilient
- Deployable across multiple regions to minimize latency

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# The modern PI System in action

## Cloud demo

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# OCS demo placeholder

The screenshot displays the OCS Asset Explorer interface. The left sidebar contains filter facets for Status, Address, Turbine Count, Building, and State. The main area shows a list of wind turbines, all with a 'Good' status. The right panel provides a detailed view of 'GE Wind Turbine 02', including a table of properties and a line chart for 'EAF MTD | Value'.

Property	Last Value	UOM	Timestamp
Energy Production - Hourly   DigitalSt...			9/7/2021 11:55:10 PM
Wind Speed - 10 min rolling avg   Value	11.179		9/7/2021 11:49:00 PM
Wind Speed - 10 min rolling avg   IsQ...	false		9/7/2021 11:49:00 PM
Wind Speed - 10 min rolling avg   IsS...	false		9/7/2021 11:49:00 PM
Wind Speed - 10 min rolling avg   IsA...	false		9/7/2021 11:49:00 PM

The line chart for 'EAF MTD | Value' shows a constant value of 100 from 04 PM to 11 PM. The x-axis is labeled 'Now' and the y-axis ranges from -10 to 100.

# What to look out for at AVEVA PI World

Tuesday, October 19, 2021			Wednesday, October 20, 2021			Thursday, October 21, 2021		
Track	Name	Speakers						
Operations	Your Roadmap to Operational Excellence	Rob McGreevy - AVEVA Ronan de Hooge - AVEVA						
Operations	Empower your operations teams to maximize efficiency, productivity, collaboration and quality	Rashesh Mody - AVEVA						
Operations	Give your teams the confidence to operate reliably and reduce risk	Kim Custeau - AVEVA						
Operations	Enable enterprise agility, sustainability and collaboration across operations with Value Chain Optimization	Harpreet Gulati - AVEVA						
PI System & OCS	PI System & OCS Roadmap	Laurent Garrigues - AVEVA Brian Bostwick - AVEVA						
PI System & OCS	PI Server, PI Vision and PI Integrator for Business Analytics	Amit Dutta - AVEVA Kevin Geneva - AVEVA						
PI System & OCS	Pervasive Data Collection	Allison Muraski - AVEVA Jiyeon Hwang - AVEVA						
PI System & OCS	OCS: OSIsoft Cloud Services	Elizabeth McErlean - AVEVA Todd Brown - AVEVA						

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Tuesday, October 19, 2021

Wednesday, October 20, 2021

Thursday, October 21, 2021

Track	Name	Speakers
AVEVA/PI System Products	<a href="#">PI Vision Deeper Dive</a>	Amit Dutta - AVEVA
AVEVA/PI System Products	<a href="#">Deep-dive: Cloud, Industrial SaaS and AVEVA Connect</a>	Tim Sowell - AVEVA
AVEVA/PI System Products	<a href="#">AVEVA Flex: Eliminate traditional barriers to adoption with technical and commercial flexibility</a>	Saadi Kermani - AVEVA
AVEVA/PI System Products	<a href="#">OCS Communities - Securely Sharing Data with Trusted External Business Partners</a>	Todd Brown - AVEVA Ryan McErlean - AVEVA
PI System Tech Track 1	<a href="#">Remote operations monitoring in OCS</a>	Collin Bardini - AVEVA Doug Broad - AVEVA
PI System Tech Track 1	<a href="#">OCS Data Science Enablement</a>	Derek Endres - AVEVA Kelsey Duffy - AVEVA
PI System Tech Track 2	<a href="#">Visualizing PI Server Data</a>	Sasha Krivonosova - AVEVA Dmytro Panchenko - AVEVA John Swartzentruber - AVEVA
PI System Tech Track 2	<a href="#">Bring Context and Analytics to PI Server Data</a>	Dan Lopez - AVEVA Stuart Seiferth - AVEVA

THANK YOU

謝謝

DZIĘKUJĘ CI

NGIYABONGA

TEŞEKKÜR EDERİM

DANKIE

TERIMA KASIH

GRACIES

WHAKAWHETAI KOE

DANKON

TANK

TAPADH LEAT

SALAMAT

SPASIBO

GRAZIE

MATUR NUWUN

ХВАЛА ВАМ

MULŢUMESC

PAKMET CIZGE

고맙습니다

GRAZIE

شكرا

FAAFETAI

ESKERRIK ASKO

GO RAIBH MAITH AGAT

HVALA

HVALA

БЛАГОДАРЯ

GRACIAS

MAHADSANID

TEŞEKKÜR EDERİM

ТИ БЛАГОДАРАМ

DANKJE

EΥΧΑΡΙΣΤΩ

GRATIAS TIBI

OBRIGADO

TAK DANKE

AČIŪ

SALAMAT

MAHALO IĀ 'ŌE

TAKK SKALDU HA

МЕРЦИ

RAHMAT

MERCI

GRAZZI

PAKKA PÉR

ありがとうございました

DI OU MÈSI

ĐAKUJEM

HATUR NUHUN

PAXMAT CAĜA

SIPAS JI WERE

TERIMA KASIH

CẢM ƠN BẠN

UA TSAUG RAU KOJ

ТИ БЛАГОДАРАМ

СИПОС


WAZVIITA

FALEMINDERIT

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AVEVA, a global leader in industrial software, drives digital transformation for industrial organizations managing complex operational processes. Through Performance Intelligence, AVEVA connects the power of information and artificial intelligence (AI) with human insight, to enable faster and more precise decision making, helping industries to boost operational delivery and sustainability. Our cloud-enabled data platform, combined with software that spans design, engineering and operations, asset performance, monitoring and control solutions delivers proven business value and outcomes to over 20,000 customers worldwide, supported by the largest industrial software ecosystem, including 5,500 partners and 5,700 certified developers. AVEVA is headquartered in Cambridge, UK, with over 6,000 employees at 90 locations in more than 40 countries. For more details visit: [www.aveva.com](https://www.aveva.com)