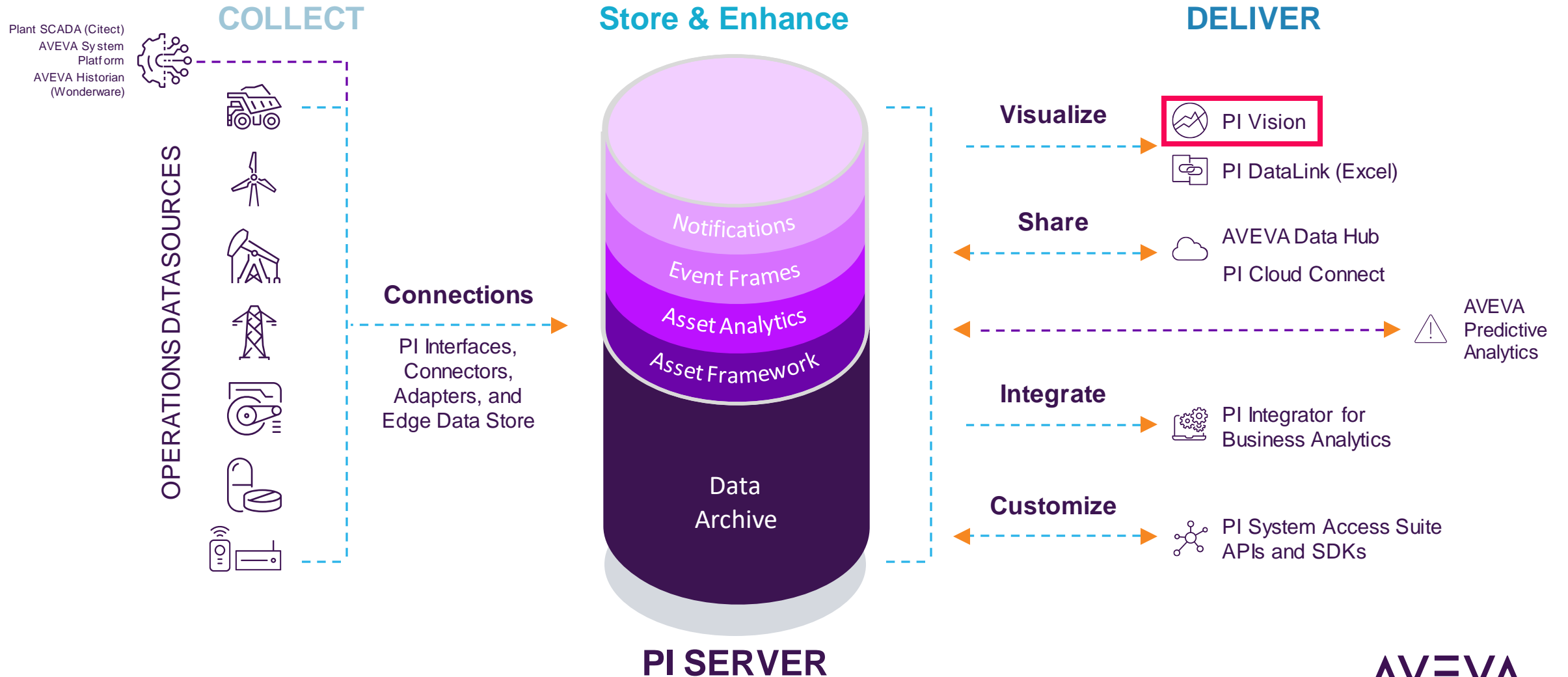MARCH 1, 2023

Building Dashboards with PI Vision

Operations Information Management with the PI System

Andrew Nathan, Presales Manager - AVEVA

AVEVA

The PI System

COLLECT

Plant SCADA (Citect)
AVEVA System Platform
AVEVA Historian (Wonderware)

OPERATIONS DATASOURCES

Connections

PI Interfaces, Connectors, Adapters, and Edge Data Store

Store & Enhance

Notifications

Event Frames

Asset Analytics

Asset Framework

Data Archive

PI SERVER

DELIVER

Visualize   PI Vision

PI DataLink (Excel)

Share   AVEVA Data Hub
PI Cloud Connect

AVEVA Predictive Analytics

Integrate   PI Integrator for Business Analytics

Customize   PI System Access Suite APIs and SDKs

AVΞVA

PI Vision: The fastest, easiest way to visualize PI data

- An **easy to use, self-service, scalable** visualization solution

- Dynamic displays

- Access real-time OT data from **any device** – phone, tablet, laptop, desktop

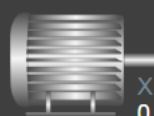- **Share** real-time displays across your organization

AVEVA

OSIsoft
PI Vision

New Display | OSI\dlopez | 4

MB Pumps (read-only) (explorer-mode) Asset: ANA FCC Pump 1+ ▼

Export

ANA FCC Pump 1

Anacortes

2,006 rpm	1,972 rpm	1,972 rpm	2,026 rpm
ANA FCC Pump 1	ANA FCC Pump 2	ANA FCC Pump 3	ANA FCC Pump 4

Baton Rouge

3,017 rpm	1,982 rpm	2,028 rpm	3,026 rpm
BAT FCC Pump 1	BAT FCC Pump 2	BAT FCC Pump 3	BAT FCC Pump 4

Houston

2,018 rpm	1,996 rpm	1,999 rpm	1,985 rpm
HOU FCC Pump 1	HOU FCC Pump 2	HOU FCC Pump 3	HOU FCC Pump 4

Martinez

2,028 rpm	1,980 rpm	2,022 rpm	1,975 rpm
MAR FCC Pump 1	MAR FCC Pump 2	MAR FCC Pump 3	MAR FCC Pump 4

Sarnia

1,980 rpm	1,971 rpm	1,977 rpm	1,975 rpm
SAR FCC Pump 1	SAR FCC Pump 2	SAR FCC Pump 3	SAR FCC Pump 4

Data Entry   Home

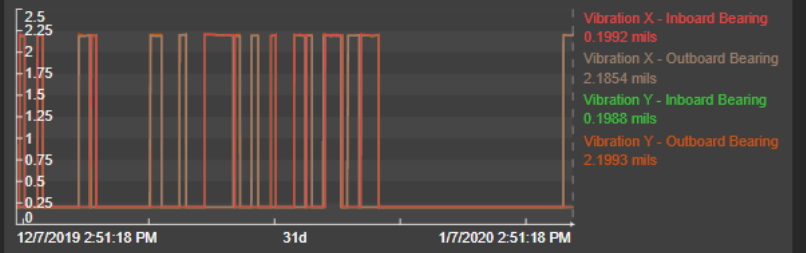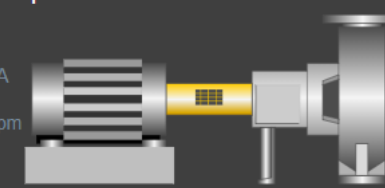| Name	Value
ANA FCC Pump 1|Manufacturer	Federation Pumps
ANA FCC Pump 1|Serial Number	NCC1701A
ANA FCC Pump 1|Asset	ANA FCC Pump 1
ANA FCC Pump 1|FCC	ANA FCC 1
ANA FCC Pump 1|Refinery	Anacortes Refinery
ANA FCC Pump 1|Date - Installed	1/1/2017 12:00:00 AM
ANA FCC Pump 1|Date - Last Service	12/26/2019 8:30:00 AM

Temp 140.3 °F   Temp 84.9 °F

X 0.1992 mils
2.1854 mils
Y 0.1988 mils
Y 2.1993 mils

Motor Vibration

Vibration X - Inboard Bearing 0.1992 mils
Vibration X - Outboard Bearing 2.1854 mils
Vibration Y - Inboard Bearing 0.1988 mils
Vibration Y - Outboard Bearing 2.1993 mils

12/7/2019 2:51:18 PM   31d   1/7/2020 2:51:18 PM

Run Hours

Since Installed	Since Last Service
26,438 h	293.5 h

Pump Operations

748.4 °F 75.4 psi

100 A
2,006 rpm

Troubleshooting Checklist

100.8 US gal/min

Pump Performance Curve (PSI vs GPM)

● Last 7 Days ○ Current ◆ Performance Curve
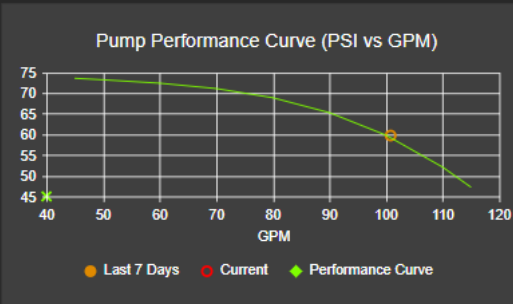
High Vibration Events

| Event Name	Start Time	End Time	Reason	Acknowledged By
ANA FCC Pump 1 Pump Upset 2020-01-07 00:17:07	1/7/2020 2:17:07 AM	In Progress		
ANA FCC Pump 1 Pump Upset 2019-12-26 21:07:07	12/26/2019 11:07:07 PM	12/27/2019 7:00:07 PM		
ANA FCC Pump 1 Pump Upset 2019-12-08 17:17:07	12/8/2019 7:17:07 PM	12/9/2019 2:00:07 AM		

Bearing Temperature Events

| Event Name	Start Time	End Time	Reason	Acknowledged By
ANA FCC Pump 1 Pump Upset 2020-01-07 01:49:07	1/7/2020 3:49:07 AM	In Progress		
ANA FCC Pump 1 Pump Upset 2019-12-26 21:07:07	12/26/2019 11:07:07 PM	1/6/2020 2:09:46 PM		

Cavitation Events

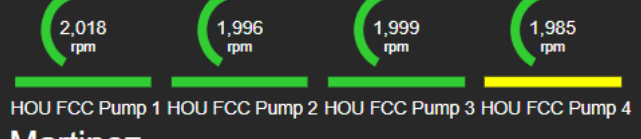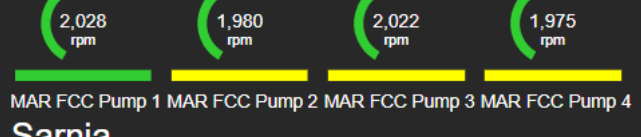| Event Name	Start Time	End Time	Reason	Acknowledged By
ANA FCC Pump 1 Pump Upset 2019-12-09 11:43:07	12/9/2019 1:43:07 PM	1/6/2020 2:09:46 PM		
ANA FCC Pump 1 Pump Upset 2019-11-18 11:46:07	11/18/2019 1:46:07 PM	1/6/2020 2:09:46 PM		
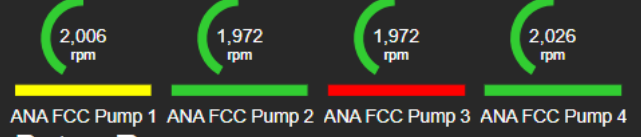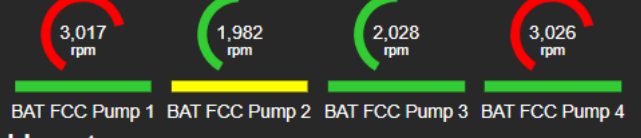
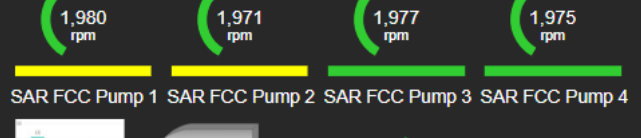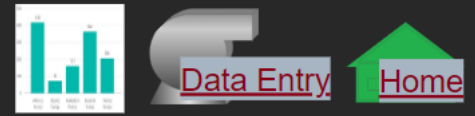12/7/2019 2:51:18 PM   ◀ 31d ▶   Now   1/7/2020 2:51:18 PM

Live Demo

AVEVA