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# Unlocking Operational Surveillance With PI Vision 2021

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**AVEVA**

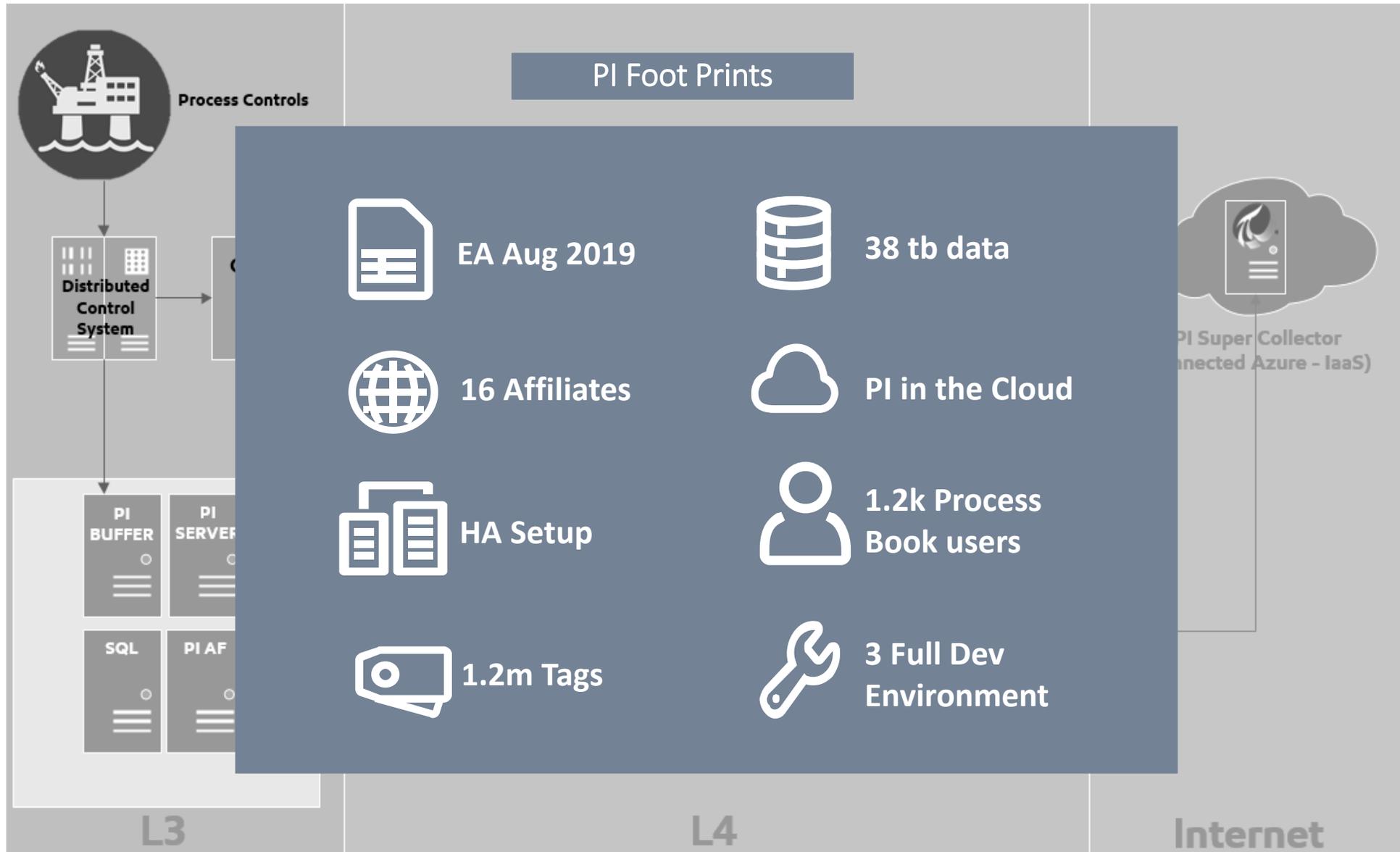
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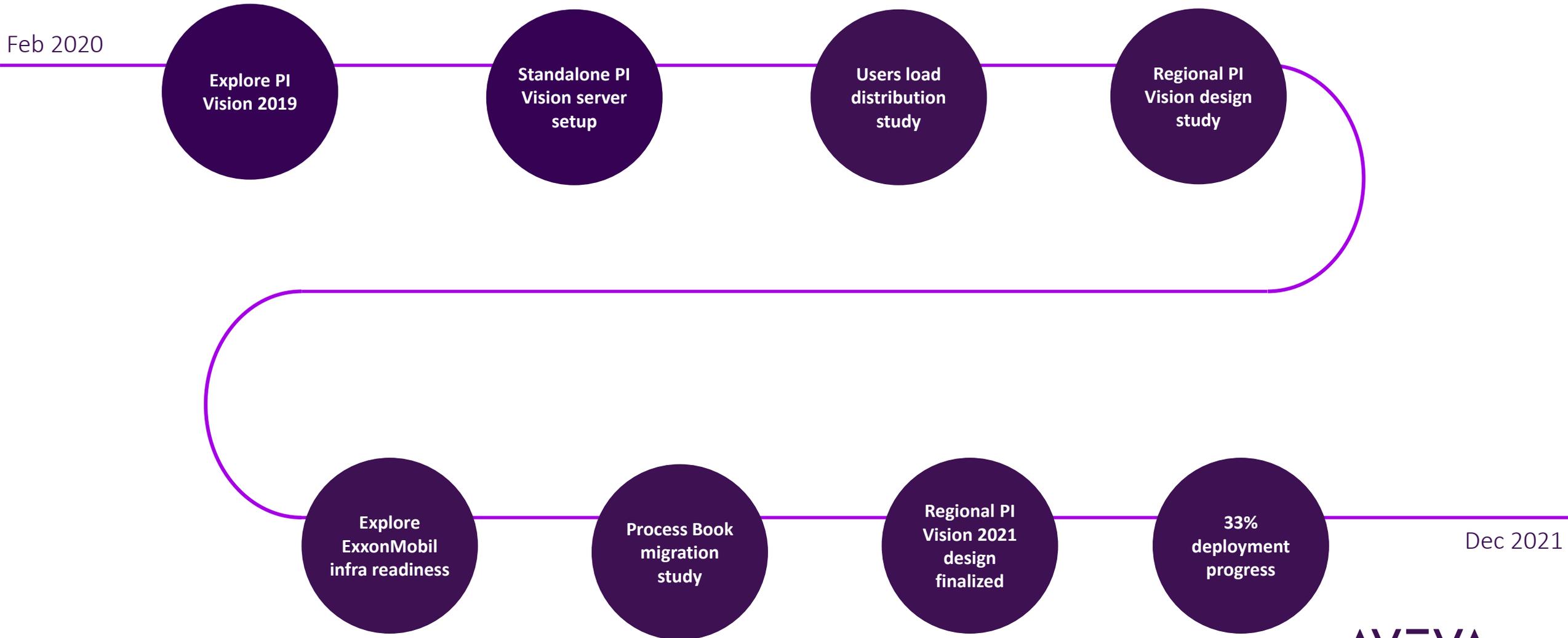
## The What

- PI Process Book is decentralized; requires individual installation process that could trigger error and troubleshooting time
- Managing the packaging/installer version is time consuming
- Unstructured storage of displays including personal storage that could eliminate collaboration opportunity
- The inability to control versions and patches that introduce manual intervention when performing upgrades

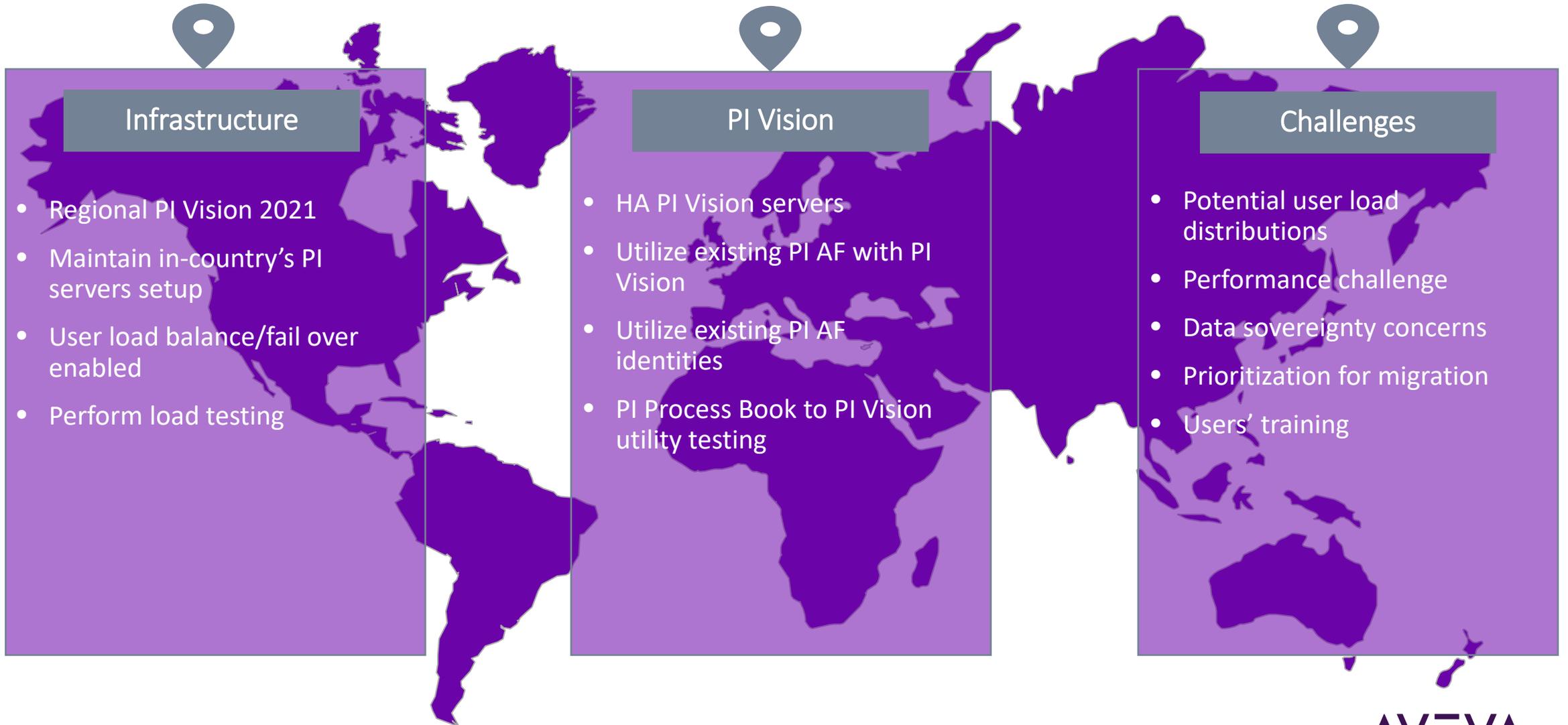
## The Why

- Massive data requires efficient tool to analyze and visualize the data
- Data contextualization generates business value out of the acquired data
- A robust and reliable system to support critical surveillance activities
- A dynamic architecture that supports solution scalability
- PI Process Book will be out of support by end of 2024

# The Journey



# Architecture highlights



## Infrastructure

- Regional PI Vision 2021
- Maintain in-country's PI servers setup
- User load balance/fail over enabled
- Perform load testing

## PI Vision

- HA PI Vision servers
- Utilize existing PI AF with PI Vision
- Utilize existing PI AF identities
- PI Process Book to PI Vision utility testing

## Challenges

- Potential user load distributions
- Performance challenge
- Data sovereignty concerns
- Prioritization for migration
- Users' training

# Architecture Benefits



## Reduced infra

36 servers reduced to **9** regional PI Vision servers



## Redundancy

Higher system **availability** & dynamic user load distributions



## Data access

Quicker access to data and mobile capabilities ready for a more **agile monitoring**



## Ease of use

Intuitive interface & fast display capability leads to **faster decision making**



## Sustainability

**Centralized** & dynamic displays, EA with AVEVA OSisoft



## Efficiency

Simpler infra support with **regional setup** & prioritizing business value delivery

## Business Results

### Constraint Mapping

- Constraint monitoring dashboard
- Process constraints vs operating conditions
- Tools involved: PI AF, PI Notification and PI Vision



**0.25%  
production  
uplift**

### Electrical Equipment Health Monitoring

- Health monitoring dashboard for automated alert and notification
- Tools involved: PI SNMP interface, PI AF, PI Notification and PI Vision



**USD140k/year  
given back on  
manpower**

### Surveillance Display

- Influenced 3<sup>rd</sup> party integration work via offline display transfer
- Tools involved: PI Vision



**Faster system  
integration work**

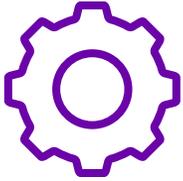
### PI System Monitoring

- PI System Monitoring dashboard; monitors PI system's health
- Tools involved: PItoPI Interface, PI AF and PI Vision



**Reduced 75% of  
false alerts**

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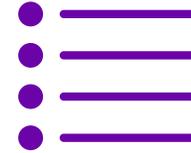
## Challenge

- Enabling high reliable surveillance tool to multiple assets globally that could reach the consumers which are geographically distributed



## Solution

- Deployed AVEVA PI application suites (as part of EA) within our environment that consist of PI Data Archive, PI Asset Framework and PI Vision to all regional hub to manage usage, performance and availability all at the same time



## Benefits

- 0.25% production uplift
- USD140k/year given back on manpower
- Faster system integration work
- Reduced 75% of false alerts



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## PI System Architect

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THANK YOU

謝謝

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NGIYABONGA

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DANKIE

TERIMA KASIH

GRACIES

WHAKAWHETAI KOE

DANKON

TANK

TAPADH LEAT

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ありがとうございました

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SIPAS JI WERE

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СИПОС

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