

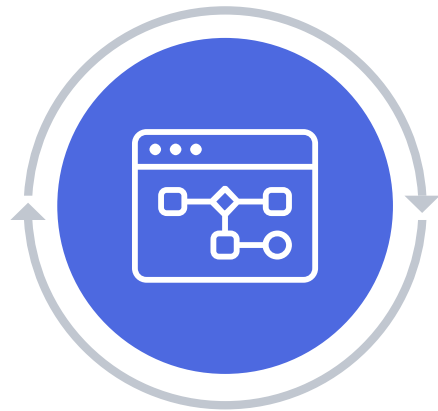


AVEVA APM Innovations and Roadmap

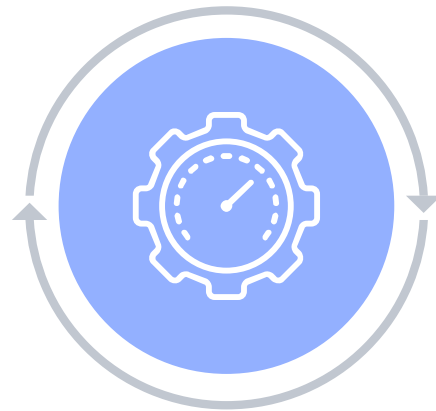
AVEVA

Work is being transformed

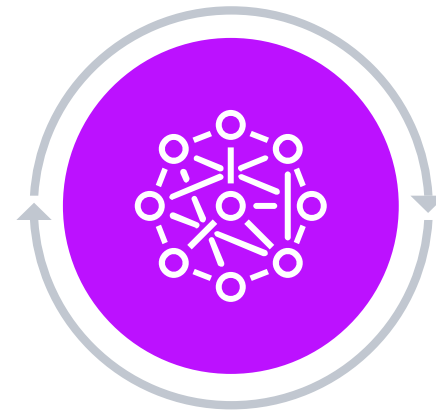
From siloed **functional islands**



Engineering



Operations



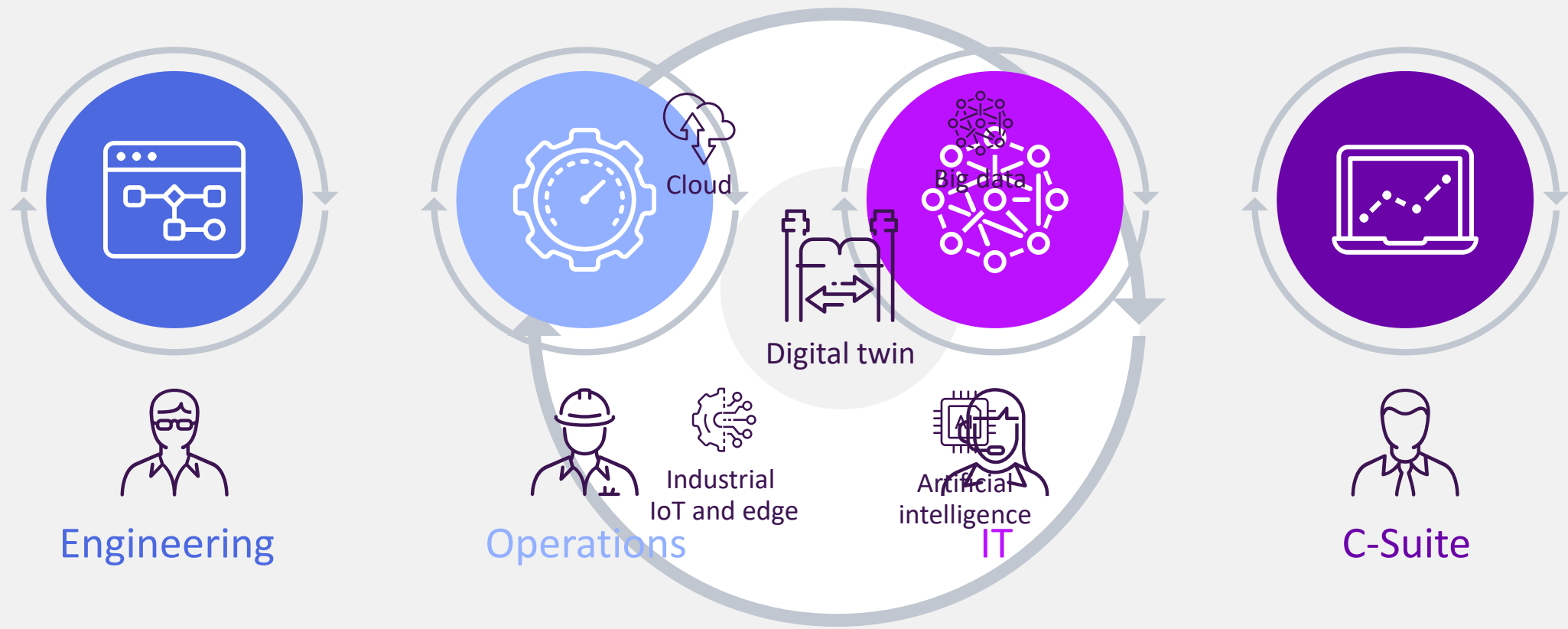
IT



C-Suite

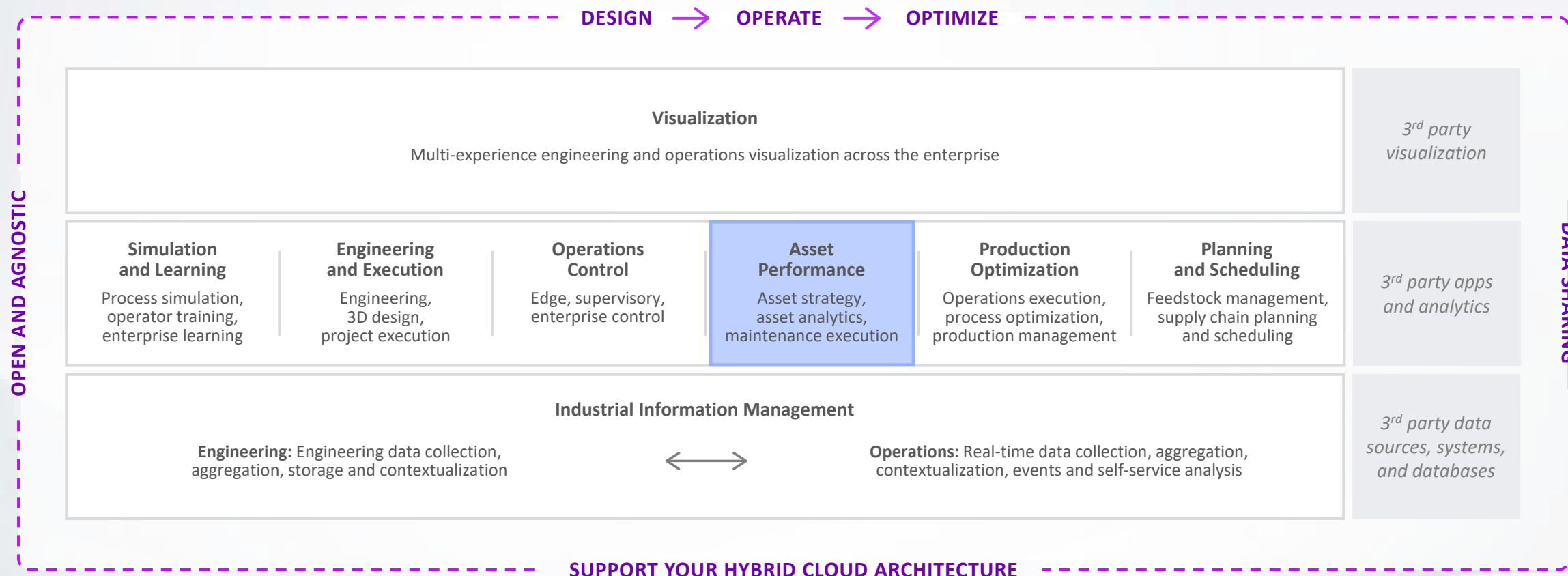
To collaborative innovation

Enabled by **digital technology**

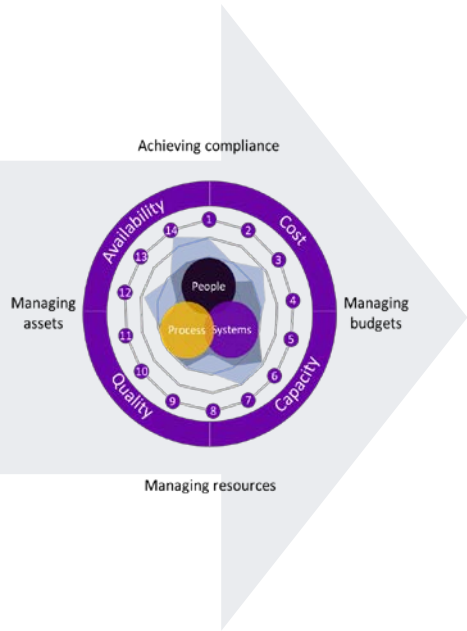


Operate critical assets reliably and safely

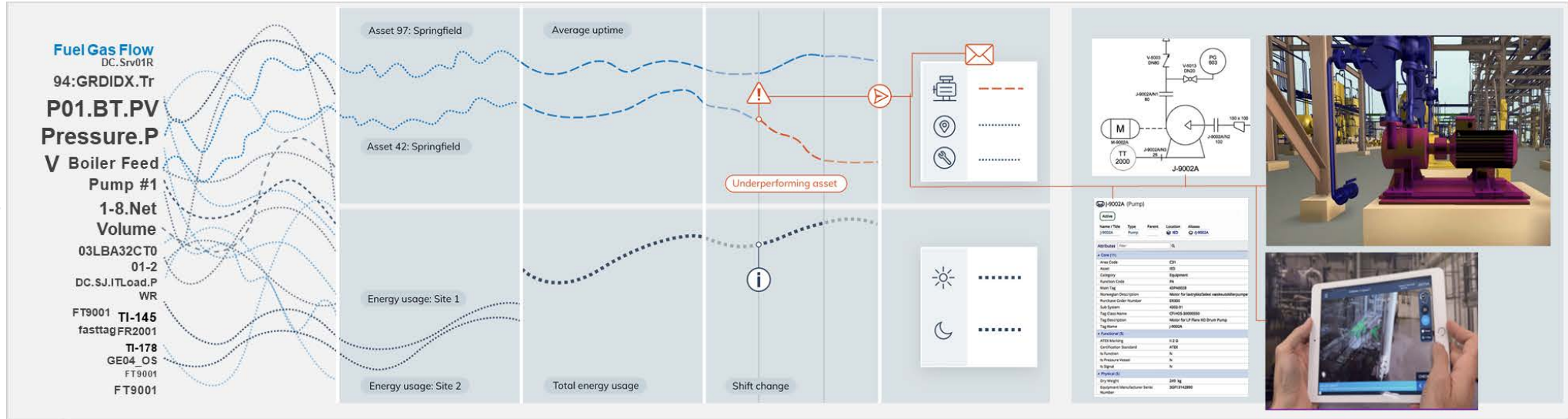
Focus on areas in need and improve asset lifespan with AI-powered guidance



Asset Strategy



Asset Analytics



Optimized storage & access to massive volumes of operational data

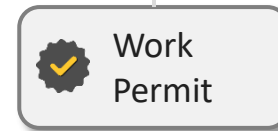
Add structure and meaningful context to your operations data

Automatically pinpoint important events in your operations

Transform raw data into actionable KPIs using streaming calculations

Send automatic alerts to the right people with the right information

Leverage digital information for a safe and efficient workforce



How can I ensure the **safety** of my workforce?



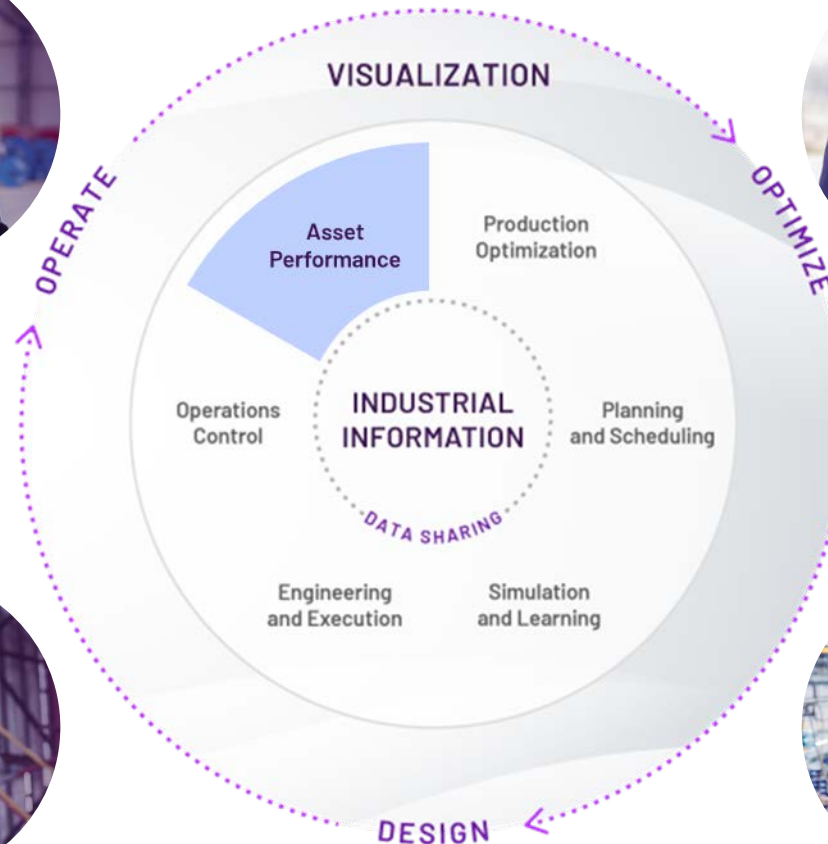
How can I operate our critical assets more **reliably and safely** ?



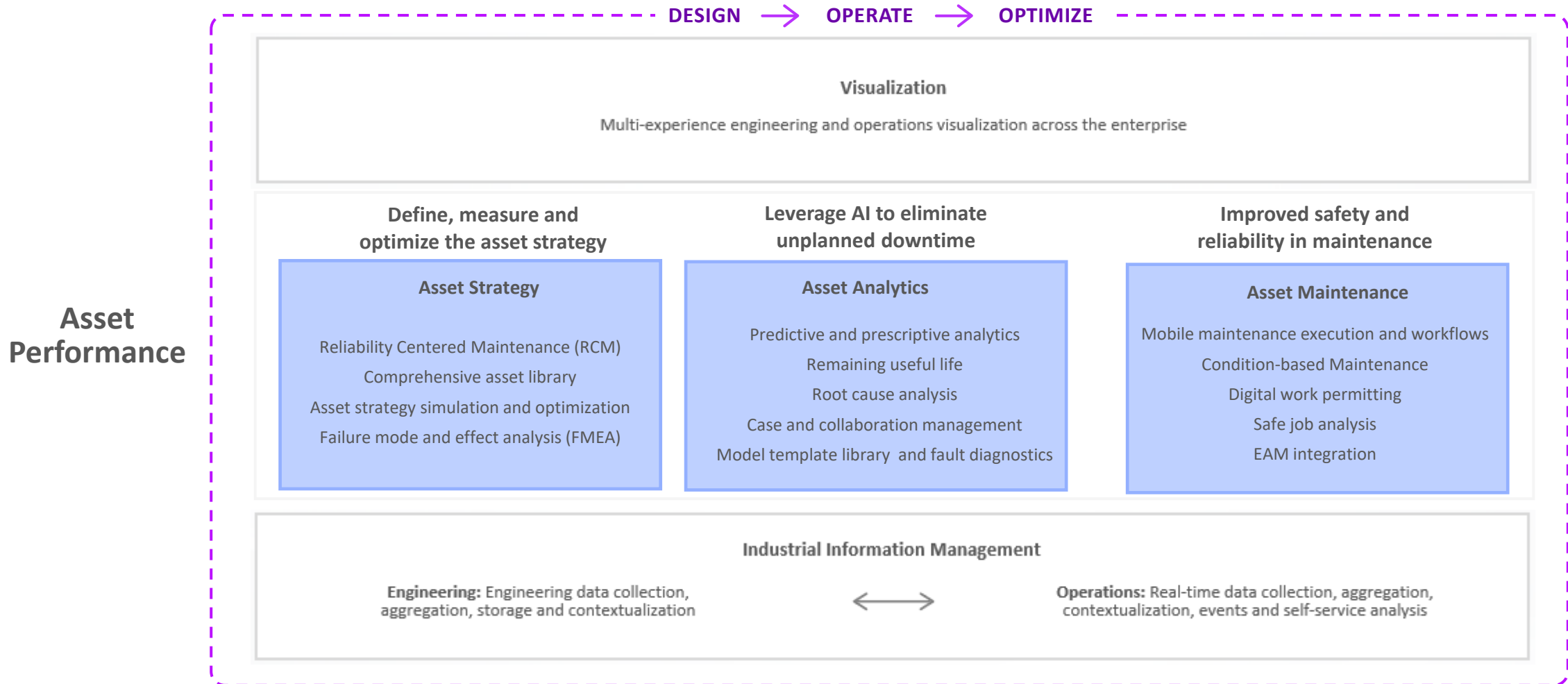
How can I **optimize** my assets to meet production goals?



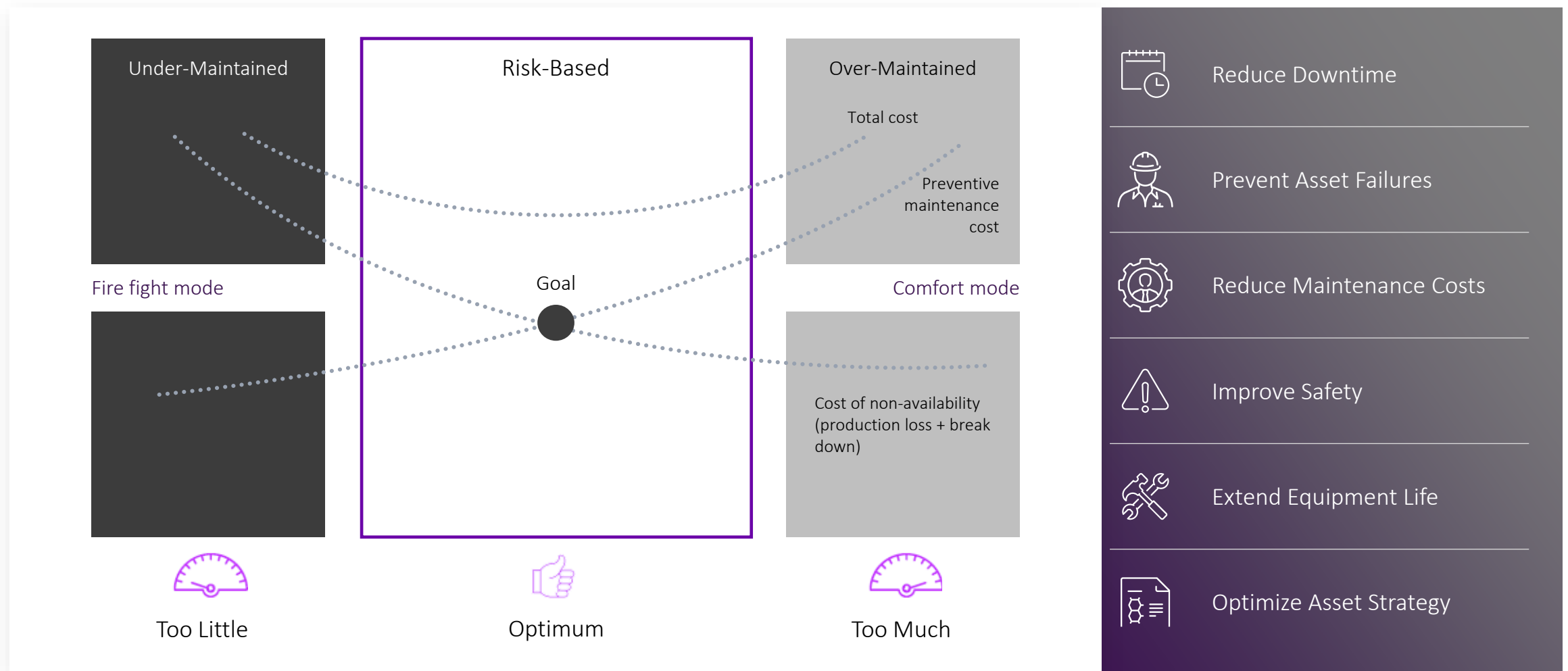
How can I drive visibility for the workforce for **improved decision making**



Balance Risk Cost and Performance



Optimize your asset management strategy



Roadmap Drivers and Direction

Customer Requirements are cornerstone

- Digital services and solutions for managing operational lifecycle safely and efficiently
- Seamless Integrations of data across platforms and solutions
- Reduced internal infrastructure

Competitive Landscape

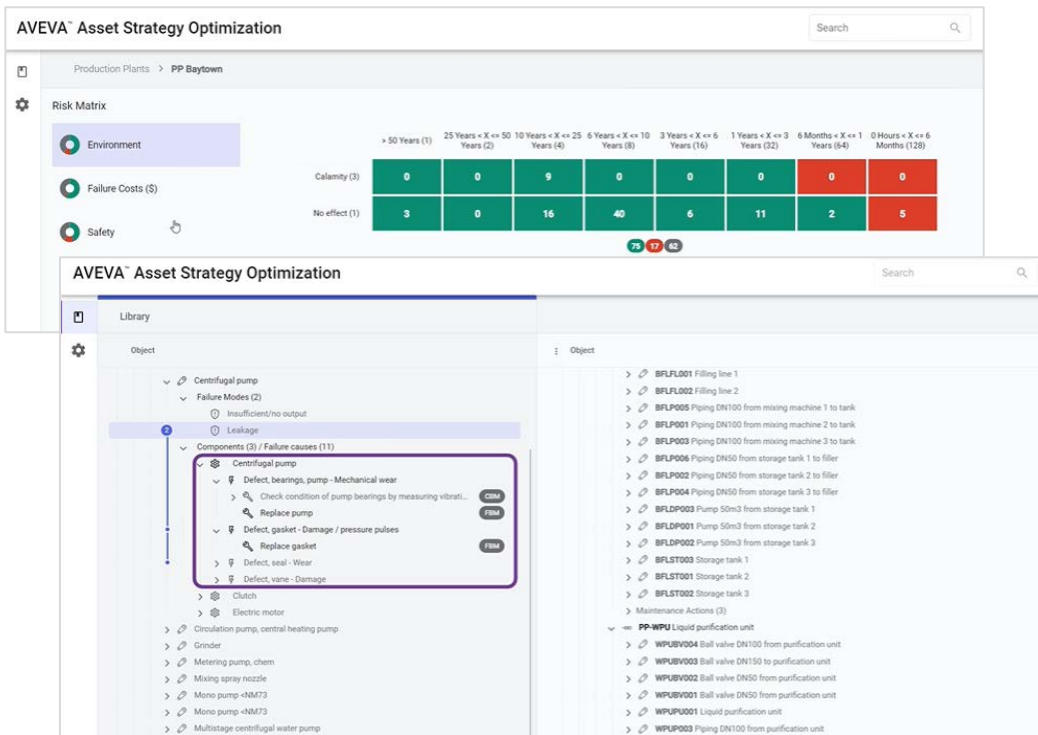
- Traditional Competition expanding into new domains and new markets to preserve volume.
- Shifting to SaaS business models
- Highly funded startups with SaaS business models

Strategic Direction

- OSI PI Integration
- Pivot to Cloud
- Industry Diversification
- Digital Twin
- Expand Partnerships

Asset Strategy

Building an Asset Strategy that supports your strategic business objectives



- Balance risk, cost and performance
- Develop a maintenance strategy based on asset criticality to meet your corporate objectives
- Inclusive of integrated asset library
- Open EAM integration

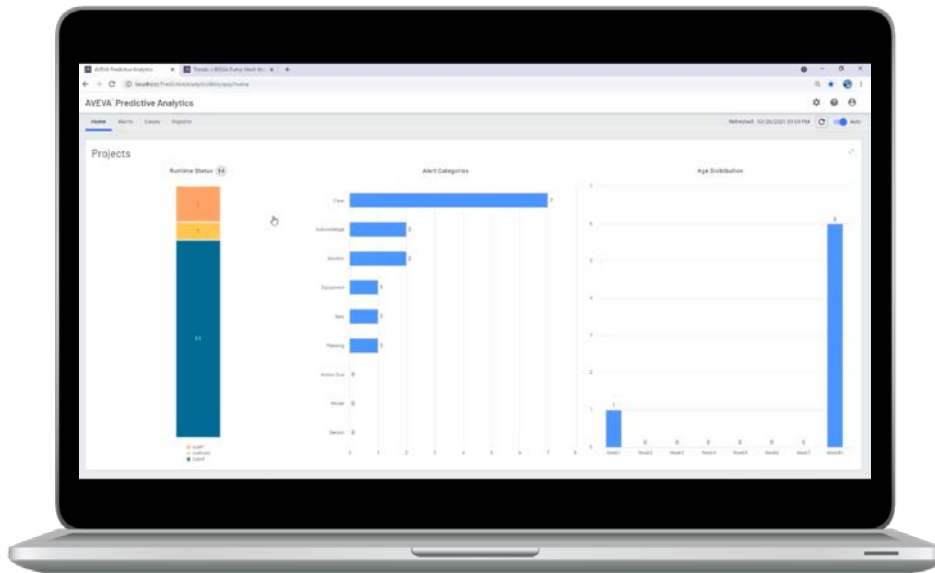
Roadmap Deliveries: Modern user experience delivered in June 2022 !!

COMING NEXT
Integrated with predictive analytics

Demo

Asset Analytics

Continued pivot to cloud use cases for connected worker, with purpose-built AI and visualization



- Reduce unplanned maintenance costs
- Increase workforce safety and efficiency
- Increase asset reliability
- Performance Indicators with production context

Roadmap Deliveries: Asset Framework integration to PI System, Enhanced Fault Diagnostics, sensor alert management and forecasting.

“PRISM” algorithm leveraged by AVEVA Insight

COMING NEXT

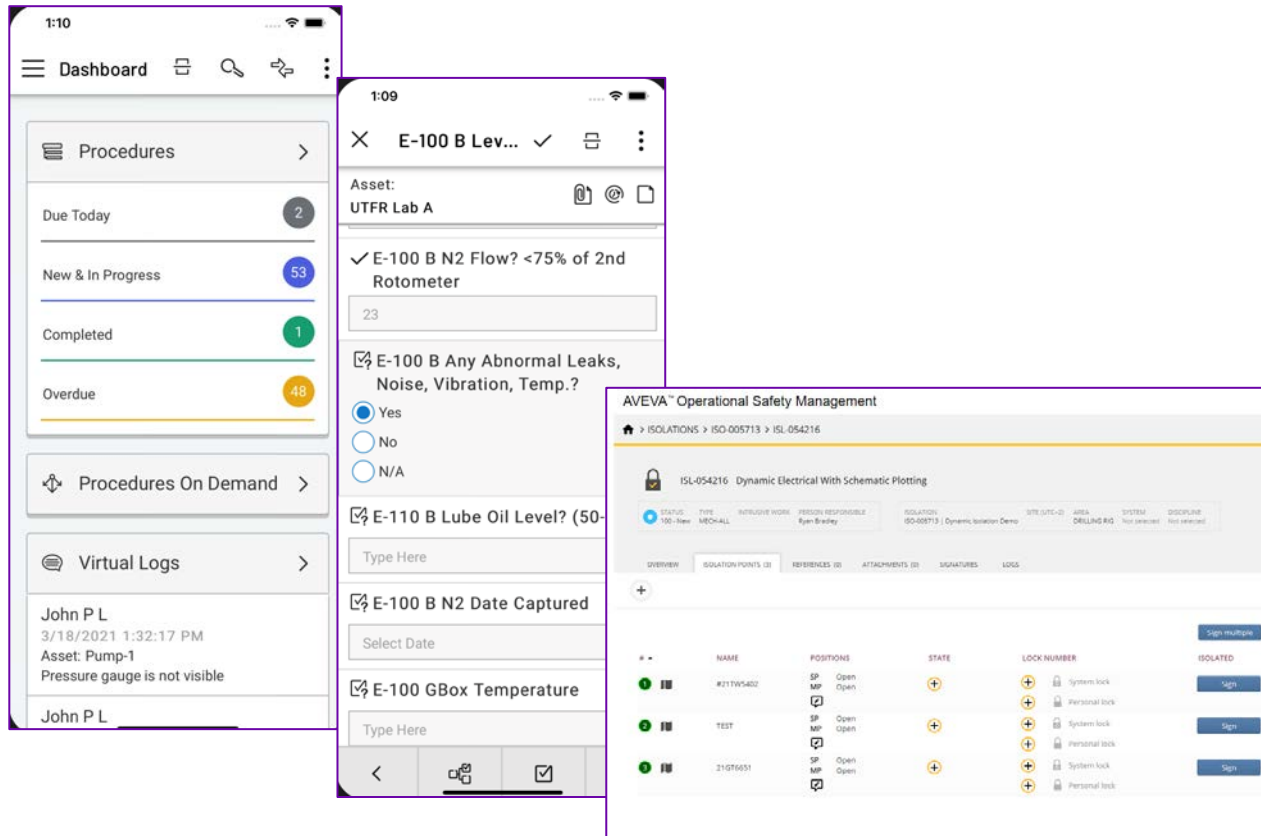
Automated Predictive Analytics Model Building with Asset Framework

Analytics solution for Solar

Multiple Insight solutions in context with BI Gateway Enterprise

Asset Inspection & Maintenance

Continued pivot to cloud use cases for connected worker



- Enables cultural change and best practices to drive reliability at the front line
- Improves plant reliability, safety and profitability
- Ensures workers execute all field tasks required to achieve reliable operations and maintenance
- Mitigate risk of intolerable economic, safety, and/or environmental consequences

Roadmap Deliveries: Additional data merge utilities for Mobile Operator Round upgrades, Cognex integration to support additional scanning capabilities for positive asset identification

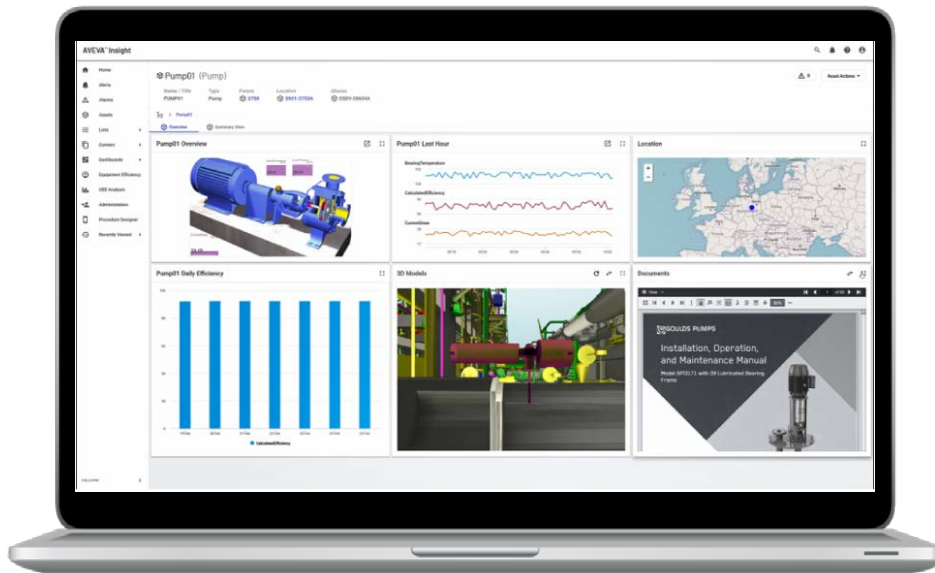
Dynamic Isolations, mobile enhancements and split pipe tracking for Operational Safety Management

Insight EAM service to LimbleCMMS, open EAM integration

COMING NEXT

- Native PI integration for Mobile Operator Rounds leveraging OMF, Cloud attachment storage, Azure AD Authentication
 - Additional mobile equipment isolation capabilities

Contextual asset information, improving reliability, efficiency and safety



- Empower strategic decision-making and increased collaboration across the enterprise
- Improved process and utilization of resources
- Increase workforce safety
- Improve asset reliability, availability and performance
- All the above via a self-service application with personalized dashboard creation within minutes

Roadmap: Ready for Lighthouse Program!



SCG Chemicals Thailand partners with AVEVA to create their Digital Reliability Platform

Extended their Digital Twin to operations to improve efficiency, reliability and safety



2021 Best Asset Monitoring Technology

Digital Reliability Platform



Petrobras

Technology as a Strategy: The Connected Workforce

- Increase productivity while minimizing human errors with AVEVA Mobile Operator
- Connecting workers to the field and command centers
- Issue of work permits and maintenance orders by field workers



Chevron

Asset Strategy Optimization

- Asset Strategy Library templates for standardization and best practices
- Use of simulation for optimization of maintenance strategies short/long term
- Root Cause Analysis
- Spare parts optimization
- Optimization of asset across 40+ platforms



Experience Matters - Mature APM Install Base

Air Liquide

Air Liquide uses AVEVA for SIO Predict digital transformation program

Artificial Intelligence based predictive analytics for early warning notification and diagnosis of equipment and process problems



BASF

BASF uses AVEVA for digital transformation initiative

Artificial Intelligence based predictive analytics for early warning notification and diagnosis of equipment and process problems and augmented reality



EDF

EDF uses AVEVA for centralized predictive asset health and performance monitoring of power production assets

Artificial Intelligence based predictive analytics for early warning notification and diagnosis of equipment and process problems



Total

Total uses AVEVA for centralized predictive asset health and performance monitoring of assets

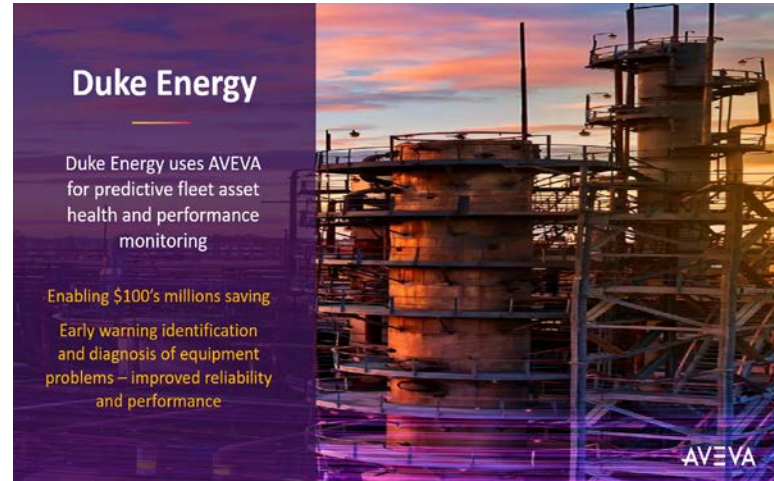
Artificial Intelligence based predictive analytics for early warning notification and diagnosis of equipment and process problems



Duke Energy

Duke Energy uses AVEVA for predictive fleet asset health and performance monitoring

Enabling \$100's millions saving
Early warning identification and diagnosis of equipment problems – improved reliability and performance



Pertamina

Safe and consistent work execution

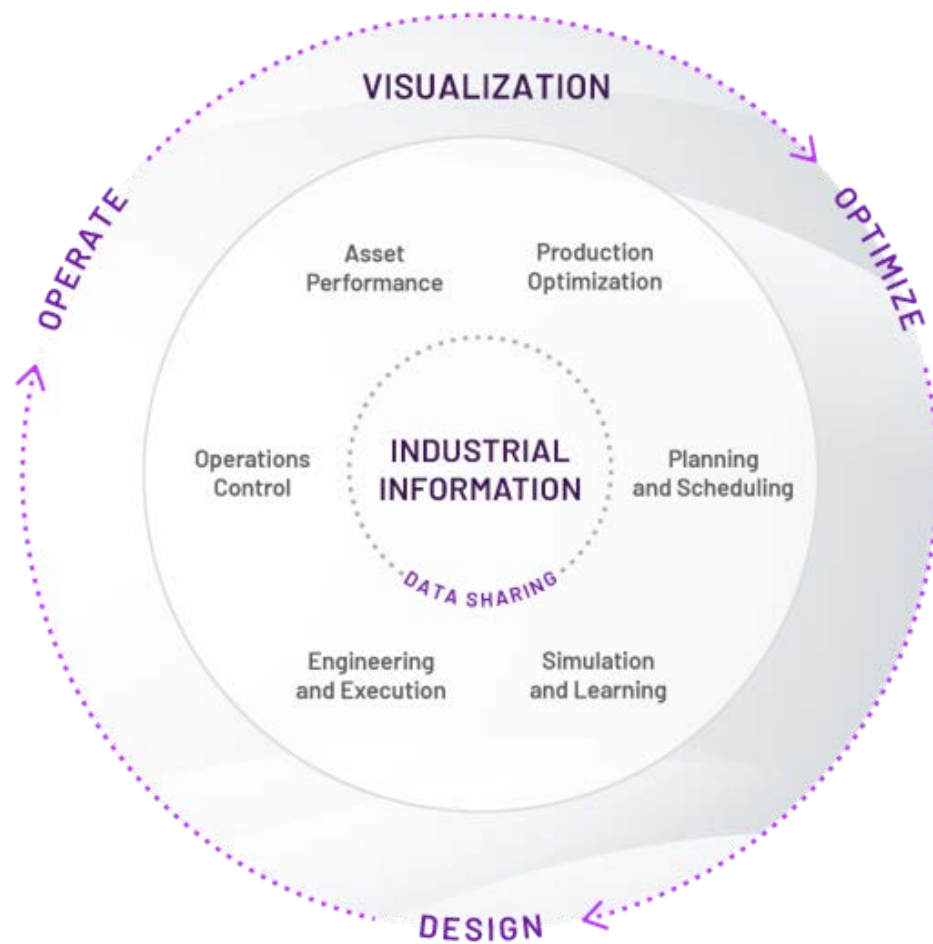
Aveva Operational Safety Management deployed across 5 refineries for control of work

The solution provides digital work permitting for 2,500 users

Safe job analysis and interlocked isolations



Even more important to differentiate ourselves



Half a century of industry experience and knowledge, trusted by **20,000 customers** worldwide

Breadth and depth of portfolio capabilities with **market leading positions** in operations information, HMI, MES, APM, 3D Design

AVEVA Connect industrial cloud platform and AVEVA Flex subscription program to **accelerate time to value**

Global partner ecosystem of **over 5,500** partners are ready to serve your needs whenever and wherever you need support

Open and agnostic solutions that leverage customer existing investments and enables a connected community across the ecosystem

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

HVALA

FAAFETAI

ESKERRIK ASKO

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MAHADSANID

ТИ БЛАГОДАРАМ

DANKJE

EΥΧΑΡΙΣΤΩ

GRATIAS TIBI

TEŞEKKÜR EDERİM

TAK DANKE

MAHALO IĀ 'ŌE

TAKK SKALDU HA

OBRIGADO

RAHMAT

MERCI

GRAZZI

ПАККА ПЕР

ありがとうございました

DI OU MÈSI

HATUR NUHUN

PAXMAT CAĜA

СІПАС

ЖАКУЎ

MERCI

ĐAKUJEM

CẢM ƠN BẠN


UA TSAUG RAU KOJ


TI БЛАГОДАРАМ

СИПОС

WAZVIITA

FALEMINDERIT

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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