

NOVEMBER 2022

Asset Reliability

Innovation, roadmap, sustainability

AVEVA

50%

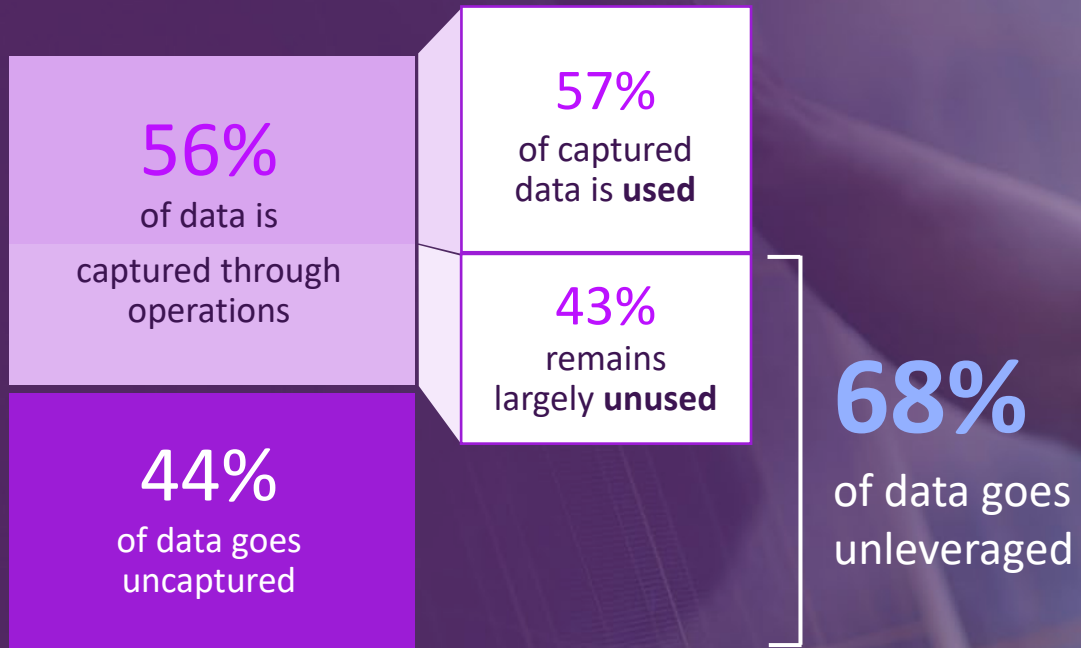
of all industrial
data was created
in the last 2 years.
In 2024, that will
still be true.

Source: Statista, Jun 2021



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According to Seagate,
only **32%** of the data available
to enterprises was put to work



Source: The Seagate Rethink Data Survey, IDC, 2020

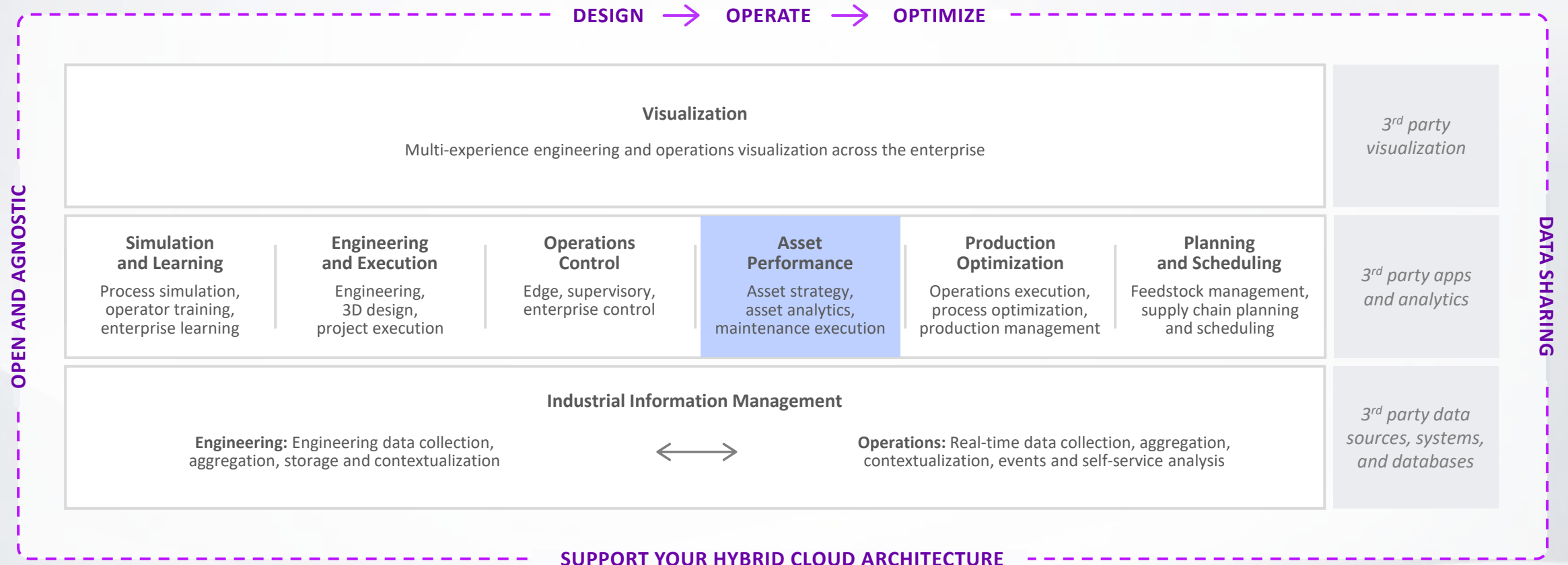
63%

of data scientists' time
is spent gathering
and cleaning data

Anaconda, 2022

Operate critical assets reliably and safely

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



AVEVA APM blueprint

10%-20% overall OPEX reduction;
25% reduction in downtime;
30% maintenance cost savings

Manage risk cost and performance while ensuring safe and reliable operations and workforce



Asset Strategy Optimization

Balance Risk, Cost and Performance in your Asset Strategy

- Align asset strategy to enterprise goals
- Asset criticality
- Reliability-centered maintenance
- Failure mode and effects analysis
- Asset library
- Root cause analysis
- Risk simulation and management



Asset Analytics

Reduce Downtime with Predictive and Prescriptive Analytics

- Predictive analytics
- Prescriptive maintenance
- Case and collaboration management
- Turnkey MDSC capabilities
- Artificial intelligence
- Machine learning
- Condition-based Maintenance



Asset Maintenance

Improve Safety and Reliability in Maintenance

- Operational safety management
- Control of work
- Digital work permitting
- Hazard analysis
- EAM Integration
- Mobile maintenance
- Connected worker



Asset Information Management

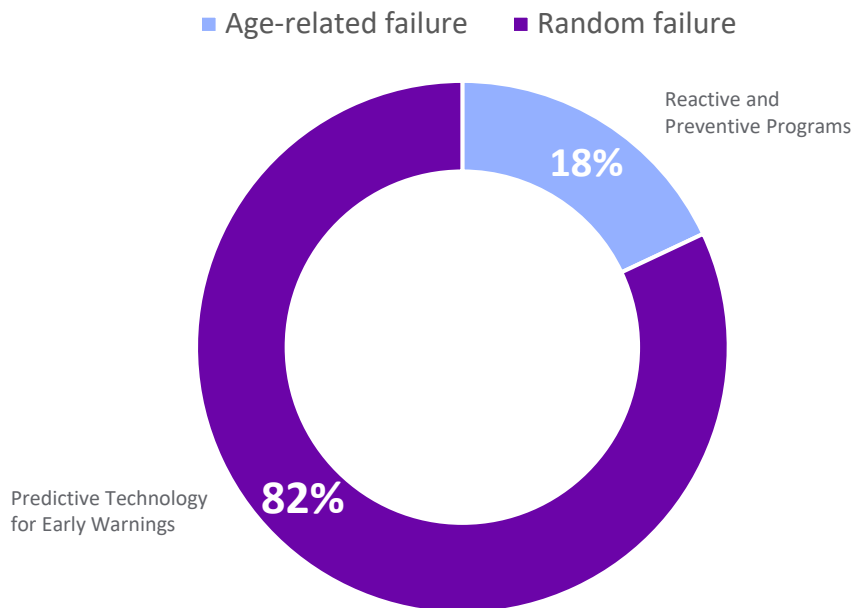
Accelerate Accurate Decision-making with holistic information management

- Engineering data
- Operational Data
- Maintenance Data
- Big Industrial Data
- 1D, 2D, 3D
- Asset Health

Optimize your asset reliability, maintenance, and performance

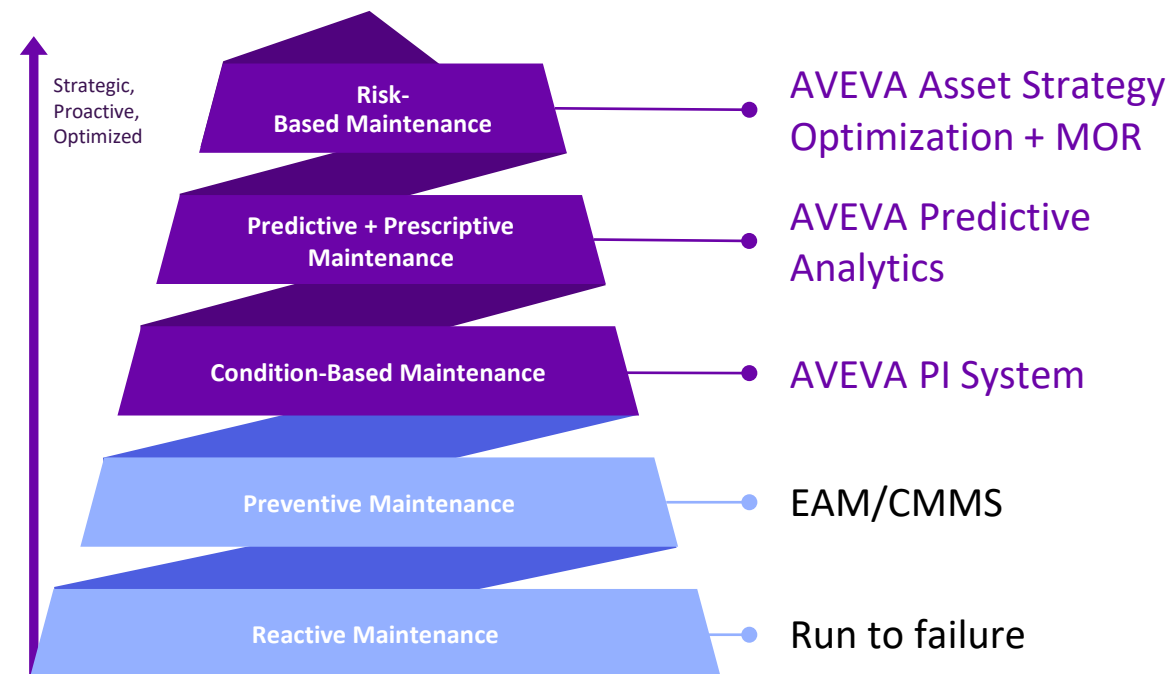
A Journey in Operational Reliability with AVEVA PI System and AVEVA Predictive Analytics

Failure Patterns



ARC STUDIES SHOW ONLY 18% OF ASSET FAILURE IS AGE-RELATED. BASED ON THESE DATA, PREVENTIVE MAINTENANCE PROVIDES A BENEFIT FOR JUST 18 PERCENT OF ASSETS, AND MONITORING FOR PREDICTIVE MAINTENANCE IS A RECOMMENDED OPTION FOR THE REST. WWW.ARCWEB.COM/LISTS/POSTS/POST.ASPX?ID=260

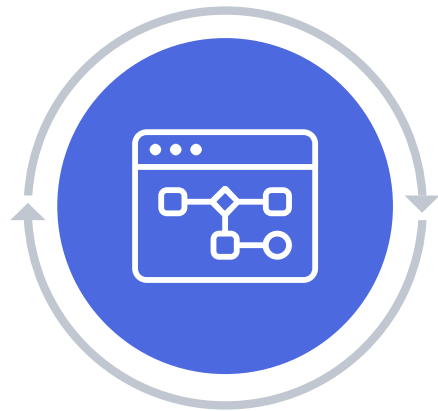
It's a Journey



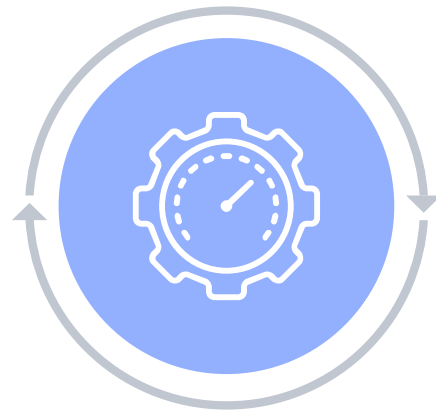
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Transform the way your teams work

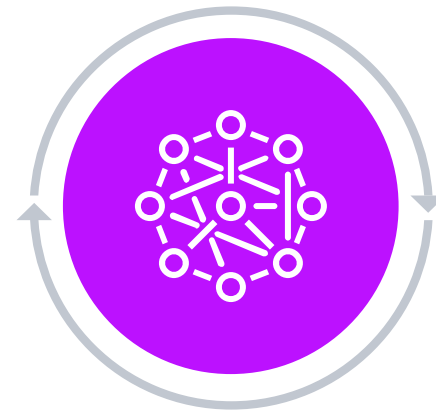
From siloed **functional islands**



Engineering



Operations



Maintenance



C-Suite

4IR - Future is Now!

Integrated monitoring center supporting remote operations and decision making

Connectors for 400+ data sources

1D, 2D and 3D visualizations

Connected Information Model

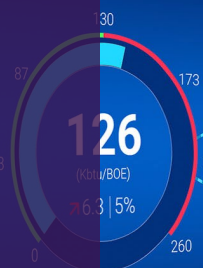
Dashboards w/real-time updates

Asset Performance Management - Predictive Analytics (AI enabled) for up to 10,000 assets

ENERGY INTENSITY KPI

CORPORATE

ENERGY INTENSITY KPI



71.0K
2.4 | 4%

13.6K
226.0 | 2%



DOWNSTREAM

ENERGY INTENSITY KPI



71.0K
2.4 | 4%

13.6K
226.0 | 2%

UPSTREAM

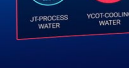
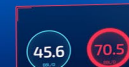
ENERGY INTENSITY KPI



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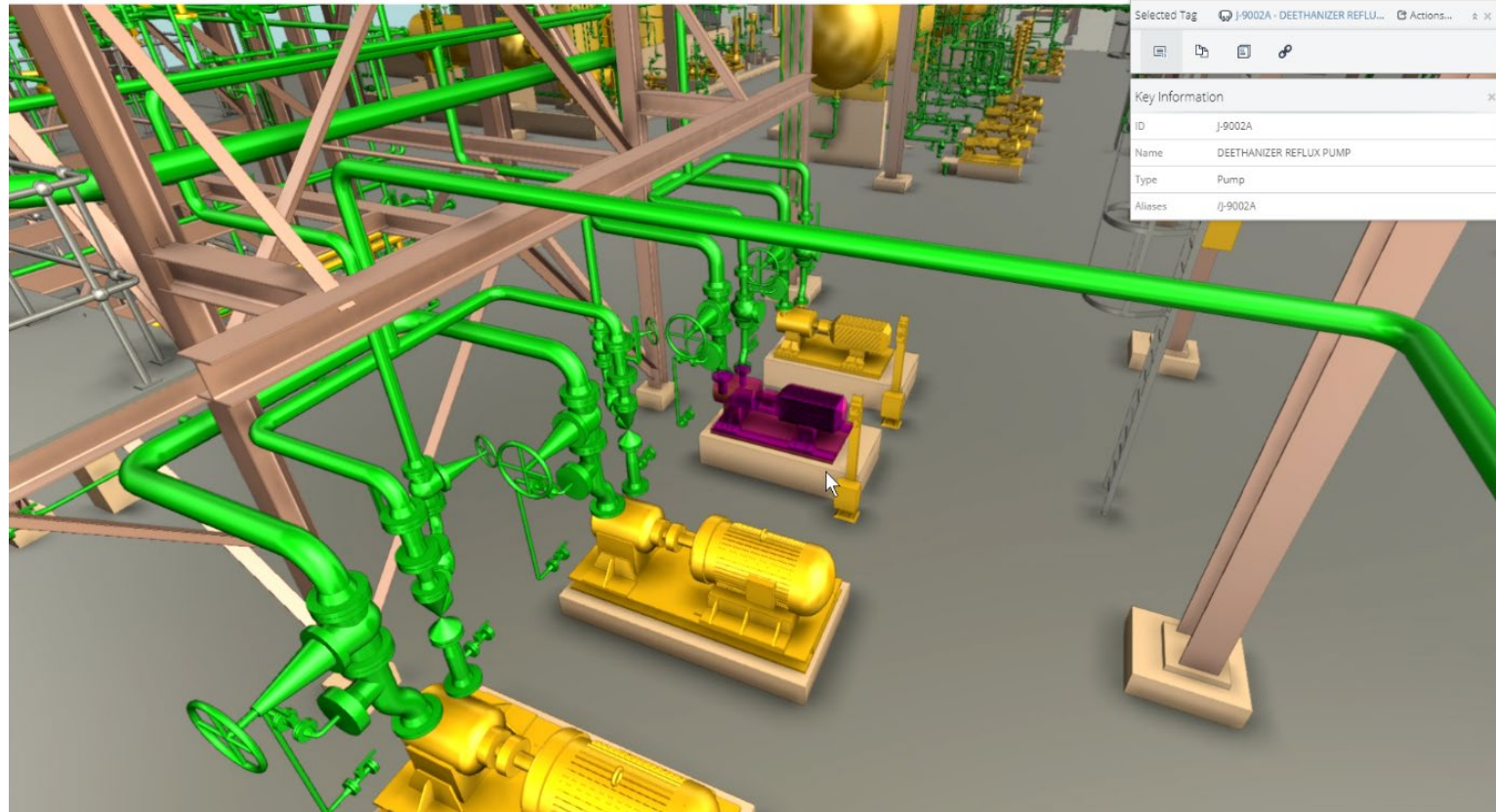
13.6K
226.0 | 2%

HYDROCARBON DISCHARGE TO MARINE



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Information contextualization - 360° digital representation



Manage risk, diagnose reliability and performance problems and optimize work planning and execution with visual APM

- Problem diagnosis
- Remote work planning
- Risk assessment
- Safe job analysis
- Isolation plan assessment

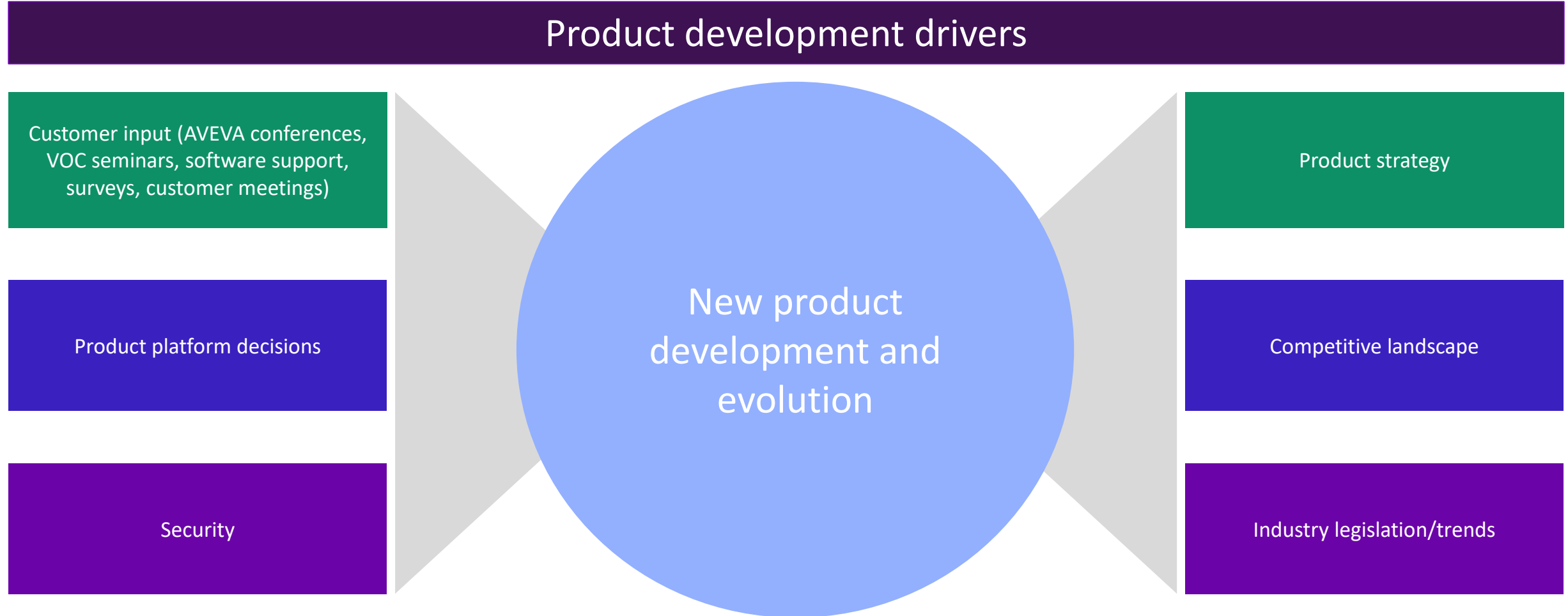
AVEVA APM ROADMAP



It's a journey – how we get there together

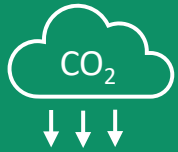
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Comprehensive product develop approach



Digitalization is driving sustainability, accelerate towards these goals

Your sustainability drivers



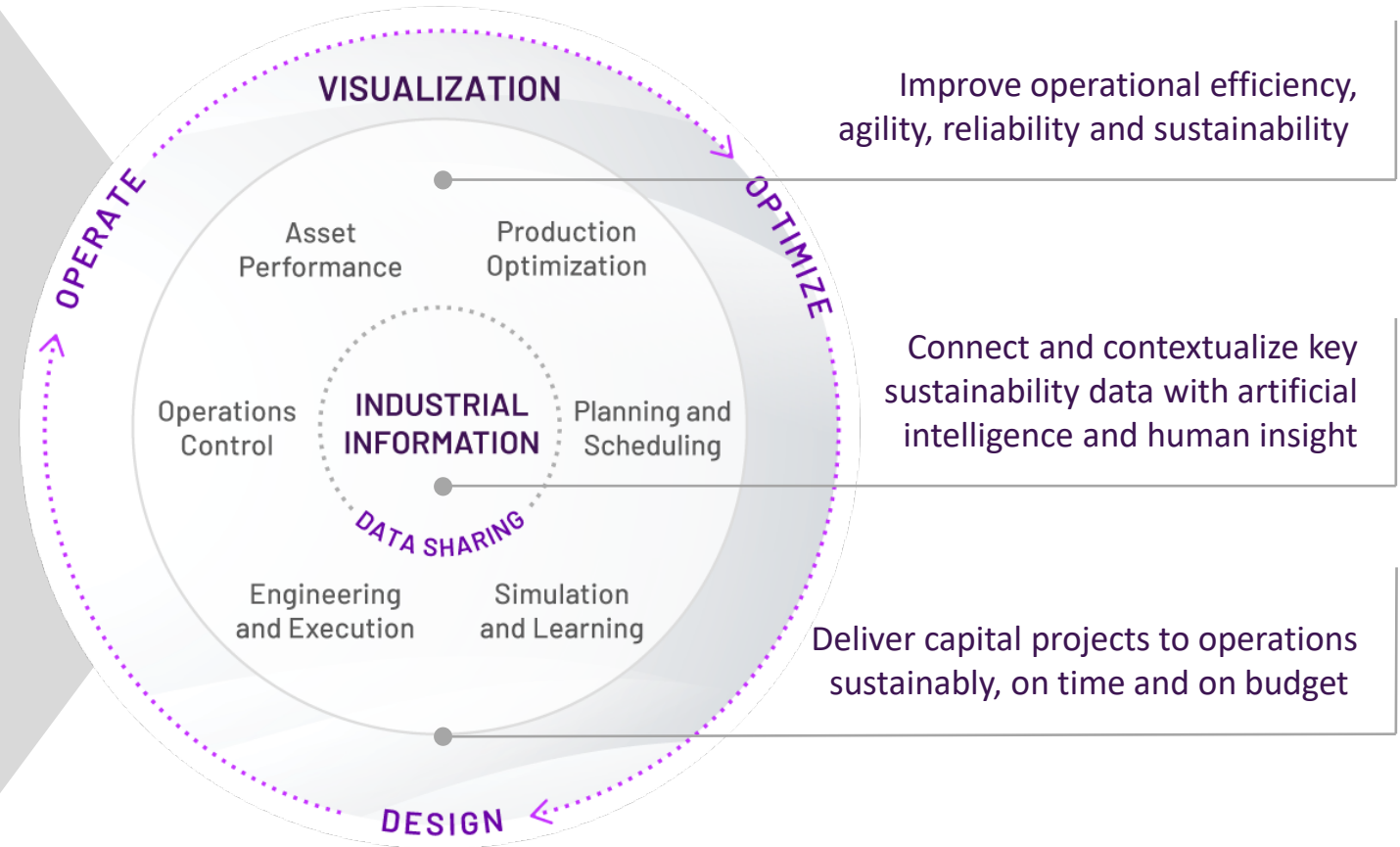
Low carbon transition



Circular economy

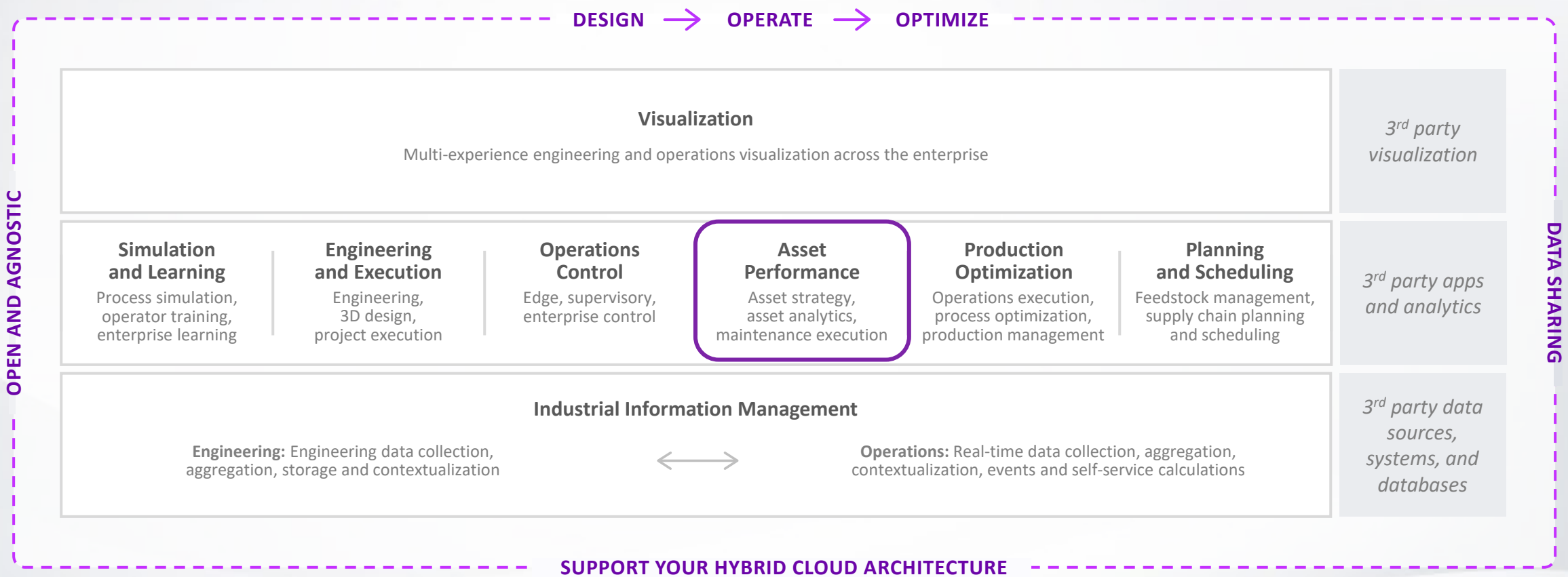


Resilience & Agility



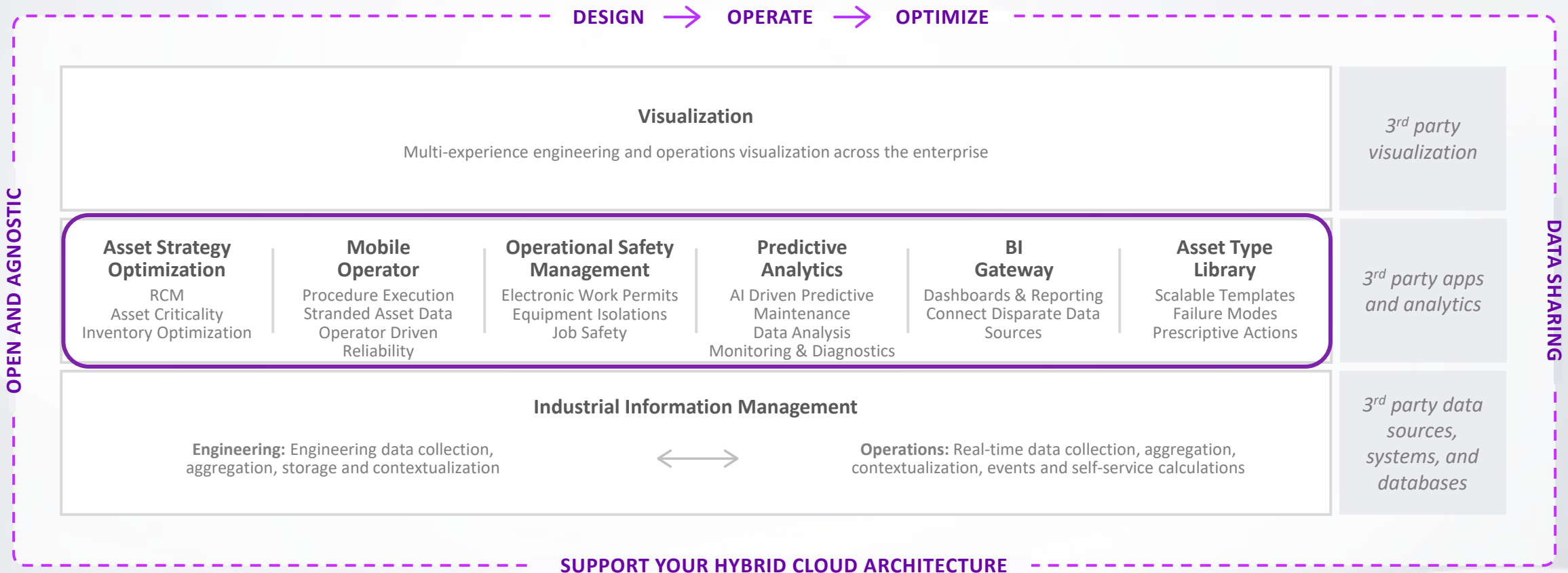
Delivering a complete digital thread, purpose-built for industry

Accelerate time to value with flexible, scalable, and trusted industrial hybrid SaaS solutions



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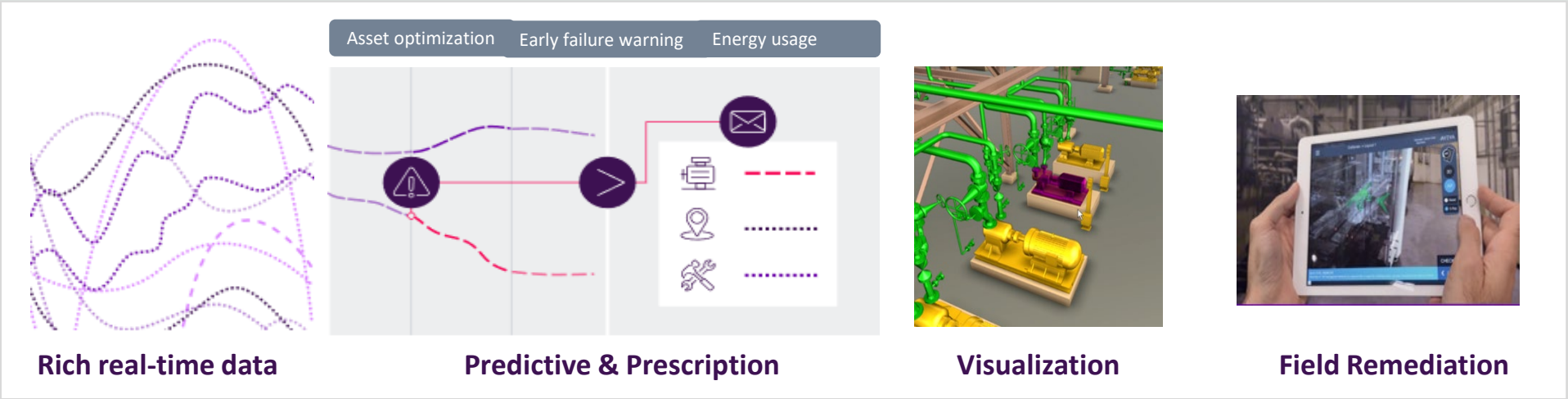
Connect the power of information with artificial intelligence and human insight to optimize asset performance

Asset Strategy

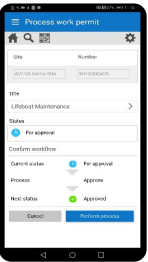
Asset Analytics

Maintenance Execution

Define optimized Asset Performance **strategy**



Fit for purpose, **actionable** insights



Access to massive volumes of rich operational data

Collection of **stranded** asset related data

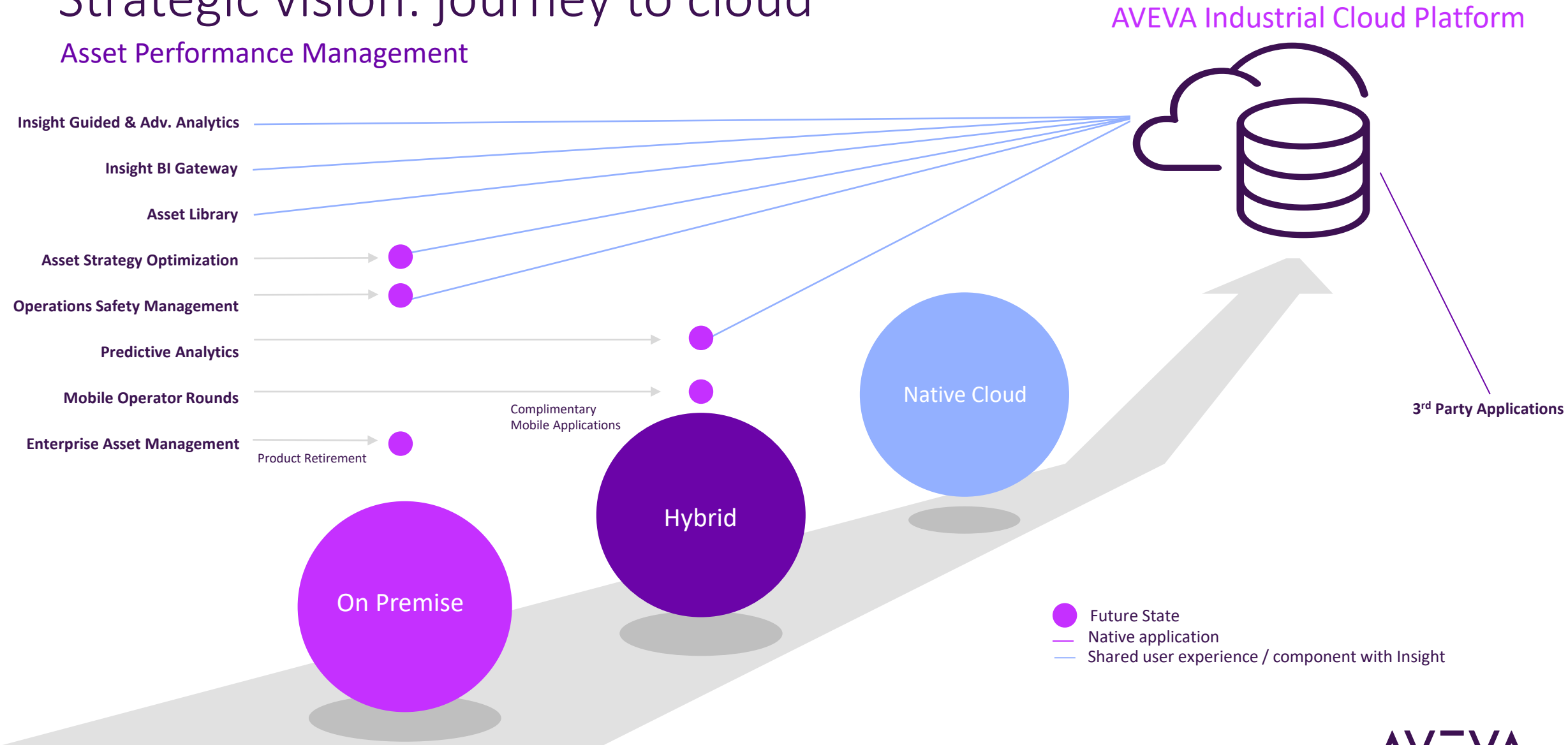
Apply **machine learning and AI** for business outcomes
Leverage **experience** in Asset Library for closed loop remediation

Engineering information in context to optimize planning and scheduling

Safe and efficient execution of work

Strategic vision: journey to cloud

Asset Performance Management



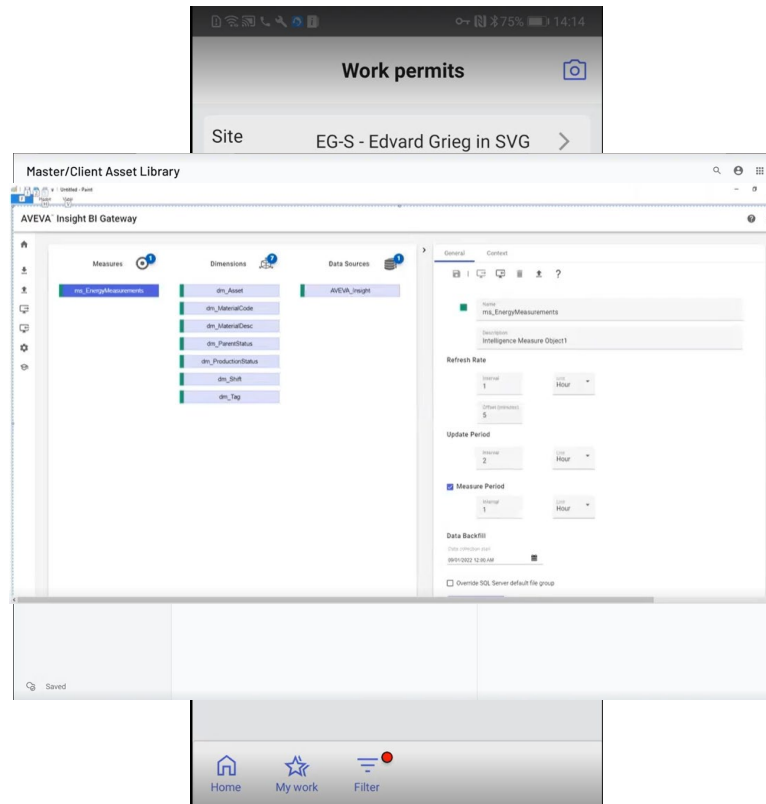
APM

Roadmap

Latest Release To Market

- AVEVA Asset Strategy Optimization 9.0
- AVEVA Mobile Operator 2020 R1
- AVEVA Operational Safety Management 11.2
- AVEVA Predictive Analytics 2022 SP1
- AVEVA BI Gateway 2021
- AVEVA Insight

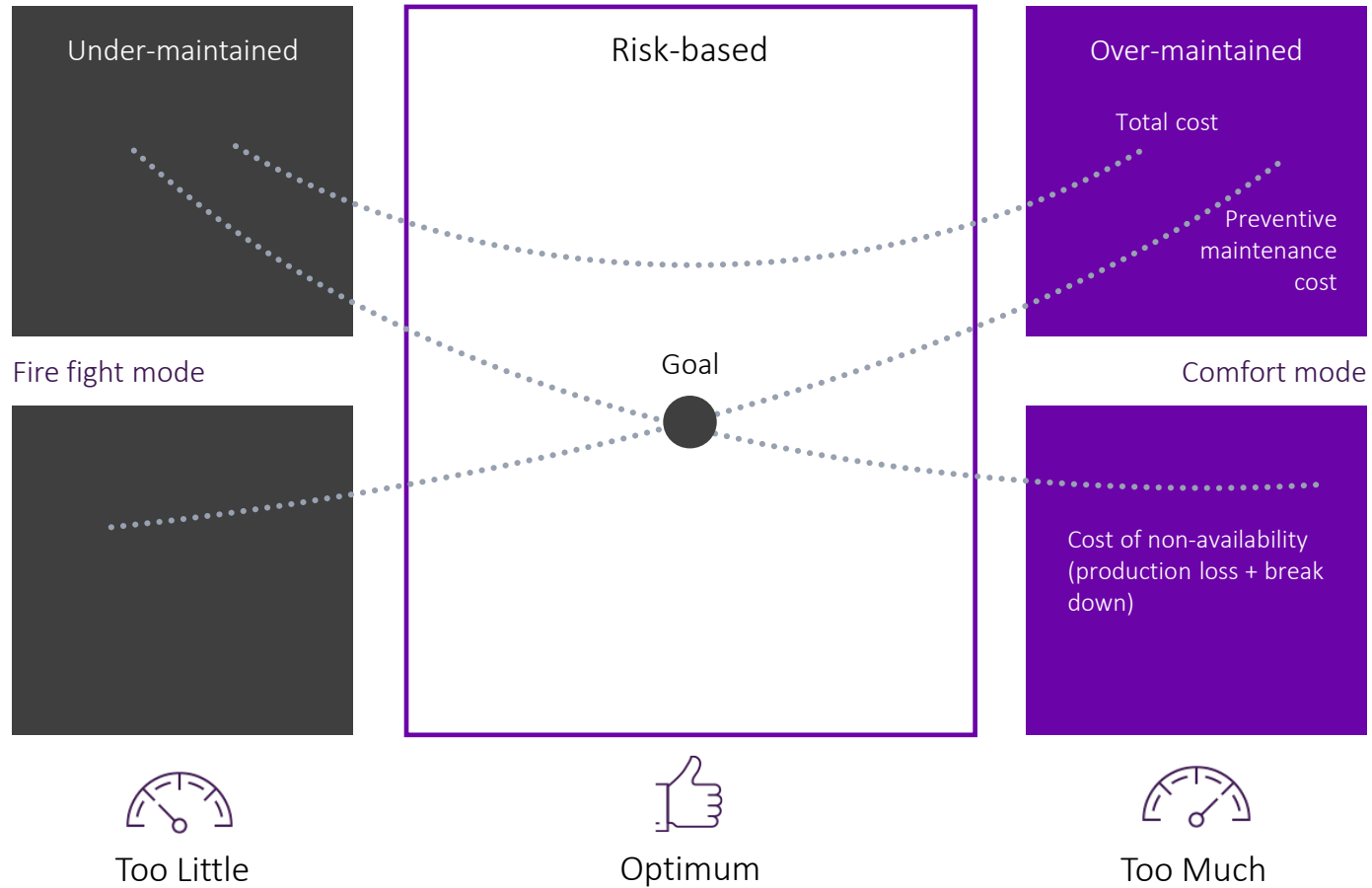
What's on the Roadmap



Where to get more information

- Develop a Blueprint for Maximum Operational Reliability with AVEVA Asset Strategy Optimization [Day 1]
- Mobility Roadmap: Empowering a Connected Workforce [Day 1]
- Going Beyond Condition-based Maintenance with Predictive Analytics and Prescriptive Guidance [Day 3]
- Ending unplanned downtime in heavy industry with AVEVA PI System and AVEVA Predictive Analytics [Day 1]
- Integrating AVEVA Predictive Analytics with AVEVA PI System [Day 3]
- Enabling your Digital Connected Landscape with AVEVA Insight [Day 3]
- Transform Data Into New Insights with AVEVA Insight Analytics [Day 3]
- Unlock your plants data and Enable the Connected Workforce

Outcome Driven



Reduce Downtime



Prevent Asset Failures



Reduce Maintenance Costs



Improve Safety



Extend Equipment Life



Optimize Asset Strategy

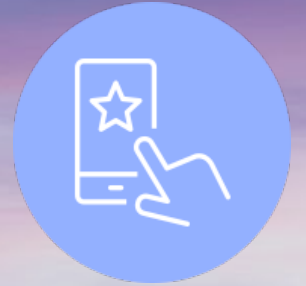
Questions?

Please wait for the microphone
State your name and company



Please remember to...

Navigate to this session in the mobile
app to complete the survey.



Thank you

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ABOUT AVEVA

AVEVA is a global leader in industrial software, sparking ingenuity to drive responsible use of the world's resources. The company's secure industrial cloud platform and applications enable businesses to harness the power of their information and improve collaboration with customers, suppliers and partners.

Over 20,000 enterprises in over 100 countries rely on AVEVA to help them deliver life's essentials: safe and reliable energy, food, medicines, infrastructure and more. By connecting people with trusted information and AI-enriched insights, AVEVA enables teams to engineer efficiently and optimize operations, driving growth and sustainability.

Named as one of the world's most innovative companies, AVEVA supports customers with open solutions and the expertise of more than 6,400 employees, 5,000 partners and 5,700 certified developers. With operations around the globe, we are headquartered in Cambridge, UK and listed on the London Stock Exchange's FTSE 100.

Learn more at www.aveva.com