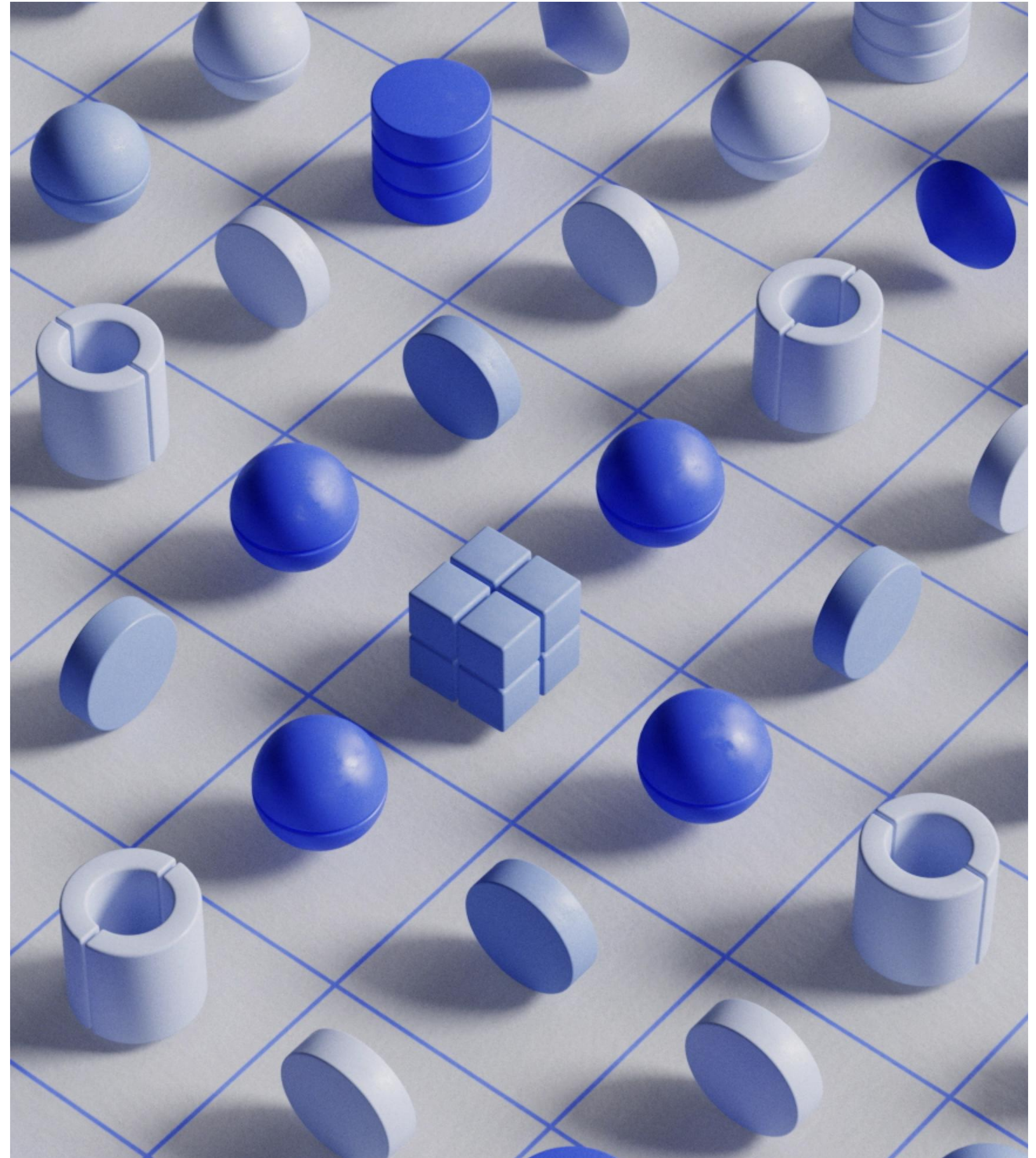


Getting the most out
of your critical assets
with the Maximo
Application Suite



Aging infrastructure,
tight budgets &
rising stakeholder
expectations across
industries

Water and Utility Systems

A bow-wave of water system risk
Municipal water systems across the U.S. face massive replacement needs—estimates suggest over \$300 billion in the coming decades just to address aging mains and infrastructure¹

Electrical Infrastructure



Utility regulatory pressure
Facing outdated infrastructure, fragmented data, and regulatory pressure from the Ontario Energy Board (OEB) a major Canadian utility is looking to predictive analytics for investment prioritization, and risk tolerance²

Manufacturing

Equipment failures drain margins
Global companies face up to \$1.4T annually in costs from unexpected equipment failure.
Predictive/prescriptive strategies materially reduce that exposure through targeted investment

Oil & Gas

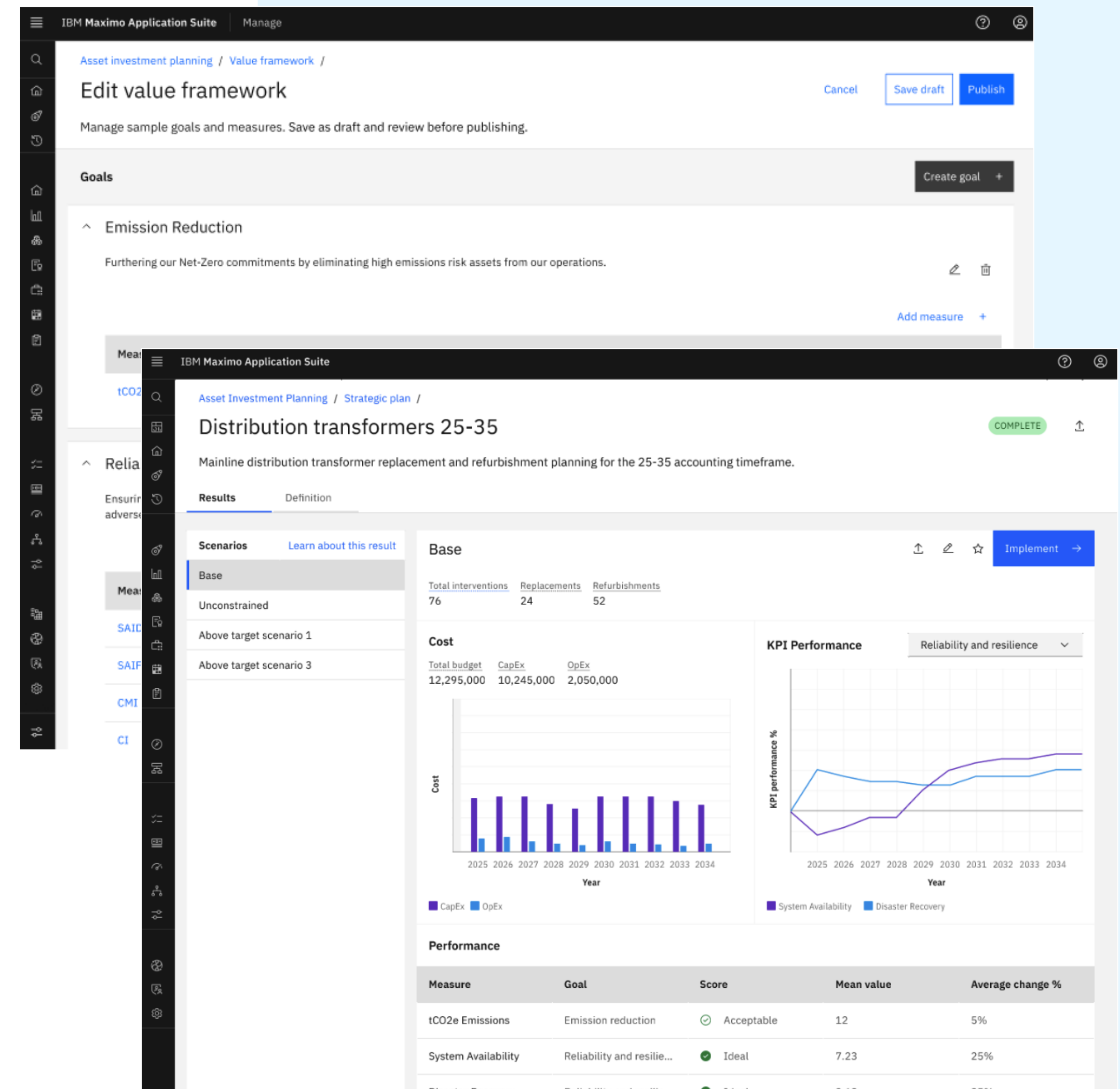
Degraded pipeline assets
Approximately 45% of U.S. crude oil pipelines were over 50 years old, with some dating to the 1920s—raising alarm about safety, environmental, and operational risk⁴

1. <https://www.asce.org/-/media/asce-images-and-files/advocacy/documents/changing-infrastructure-equation-report.pdf>
2. <https://www.westernenergy.org/resource/creating-a-road-map-for-investing-in-utility-infrastructure/>
3. <https://www.businessinsider.com/artificial-intelligence-robotics-predictive-maintenance-manufacturing-factory-solutions-2025-5>
4. <https://us.anteagroup.com/news-events/blog/oil-gas-transportation-companies-pipeline-integrity-management>

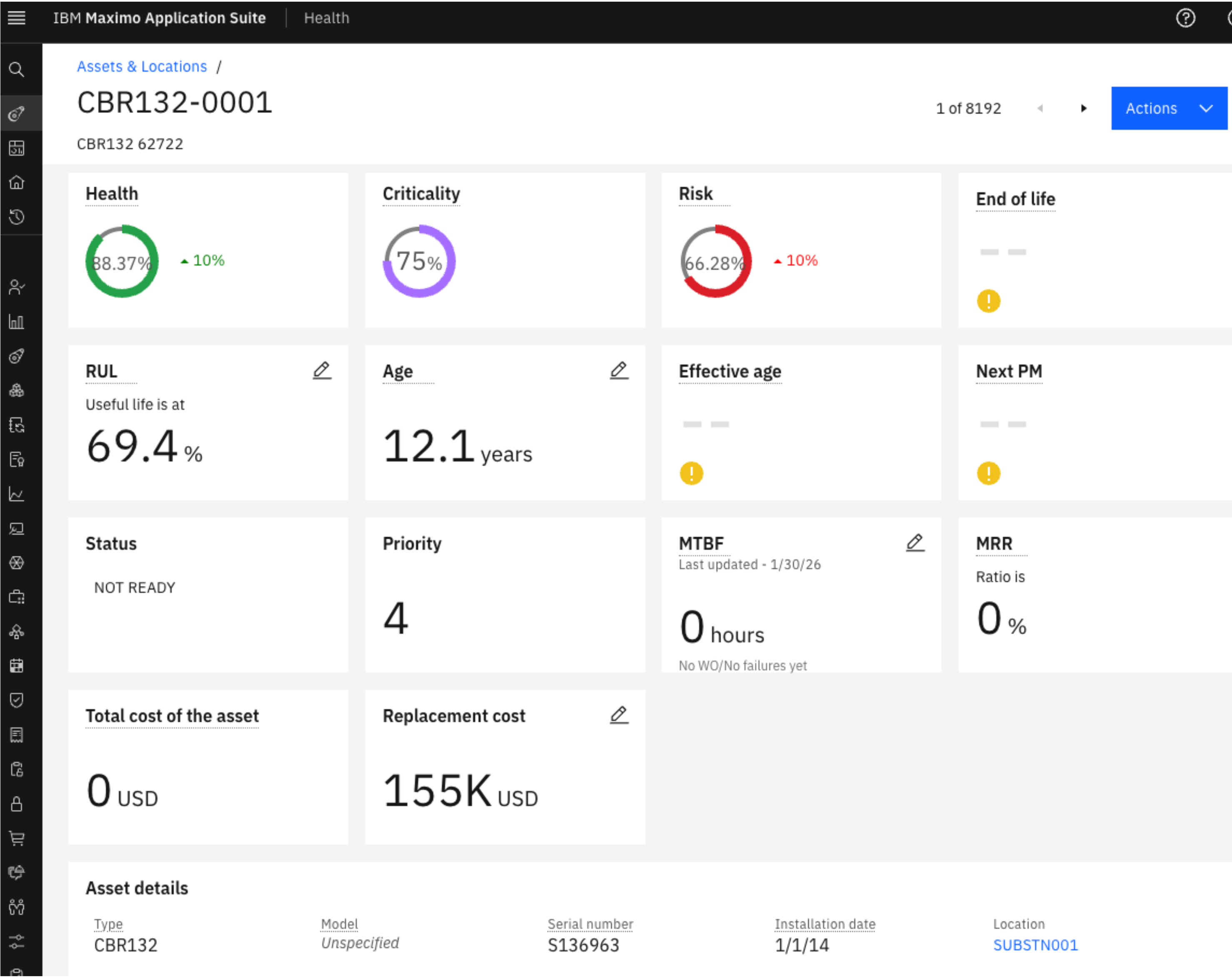
Smart asset management
requires making the right
decisions with respect to the
entire Asset lifecycle—not just
the next budget horizon

Maximo AIP is designed to *help asset-intensive organizations make better sustainment decisions* across their critical assets

- **Built-in optimizer** to quickly recommend replace and refurbish schedules across large asset populations
- **Health modelling** to evaluate how the condition and failure probability of assets is changing over time
- **Value Framework** to establish consistent decision-making across asset portfolios
- **Multi-scenario generation** for what-if and sensitivity analysis comparisons
- **Single source of truth** across maintenance and planning functions to eliminate silos



Health and criticality scores offer a consolidated view of asset characteristics and ensure consistent decision making



The *Value Framework* helps you capture the cost and KPI impacts of asset failures to ensure plans align with organizational needs

IBM Maximo Application SuiteManage

Asset investment planning

Optimize investment plans for your assets to manage risks and reduce lifecycle costs.

Value frameworkAssets dataStrategic plan

Unpublished draft. A value framework is in draft status and contains unpublished changes.

Continue editing

Goals

Safety Compliance

Ensuring the highest standards of nuclear safety by strictly following regulatory requirements, industry best practices, and continuous monitoring to protect people and the environment.

Measures

Measure	Description
Radiation Leak Risk	Indicates the presence of a radiation leak based on sensor thresholds. A value of 1
Emergency Response Time (minutes)	Time taken to respond to an emergency incident.
Safety Audit Score (%)	Percentage of safety checks passed during audits. Higher scores indicate better co

Items per page: 10 1-3 of 3 items

Operational Continuity

Maintaining consistent and reliable power generation by minimising unplanned outages, optimising asset performance, and ensuring workforce readiness.

Measures

Measure	Description
Downtime Cost (₹ Cr/month)	Cost incurred due to unplanned outages, calculated based on downtime duration a
Availability Rate (%)	Percentage of time the asset is operational. Higher availability indicates better reli

Lifecycle data defines failure curves, costs, and intervention templates by asset group

IBM Maximo Application Suite | Manage

Asset investment planning / CBR345

Total assets

3103 assets

Assets without installation date

0 assets

Lifecycle data

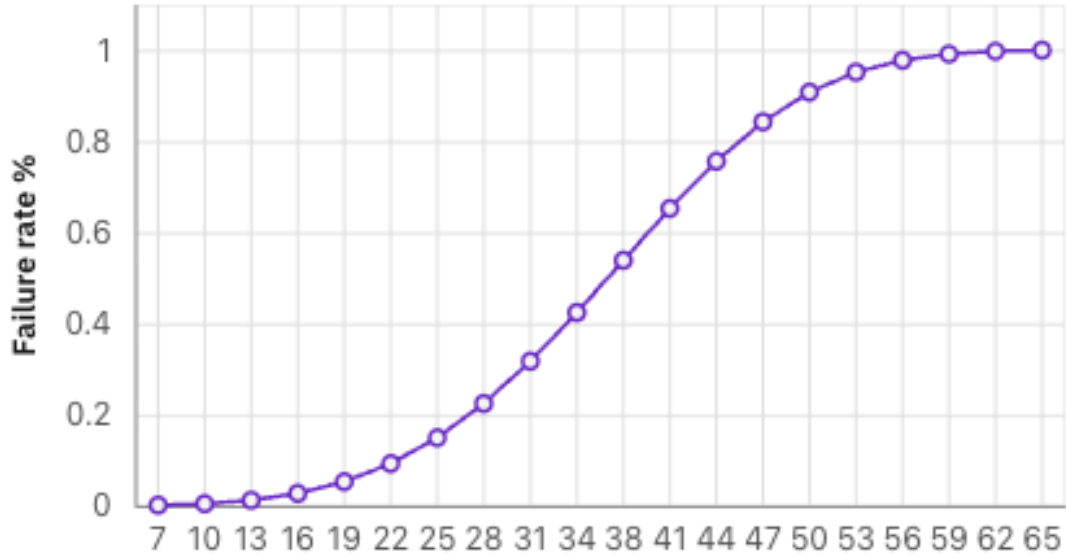
Define the end of life curve for the asset type, manage the effective age formula, and define the average maintenance cost.

End of life curve

Use a Weibull distribution to define the end of life curve for the asset type.

Failure rate %

Year



Edit curve

Delete

Asset lifecycle details

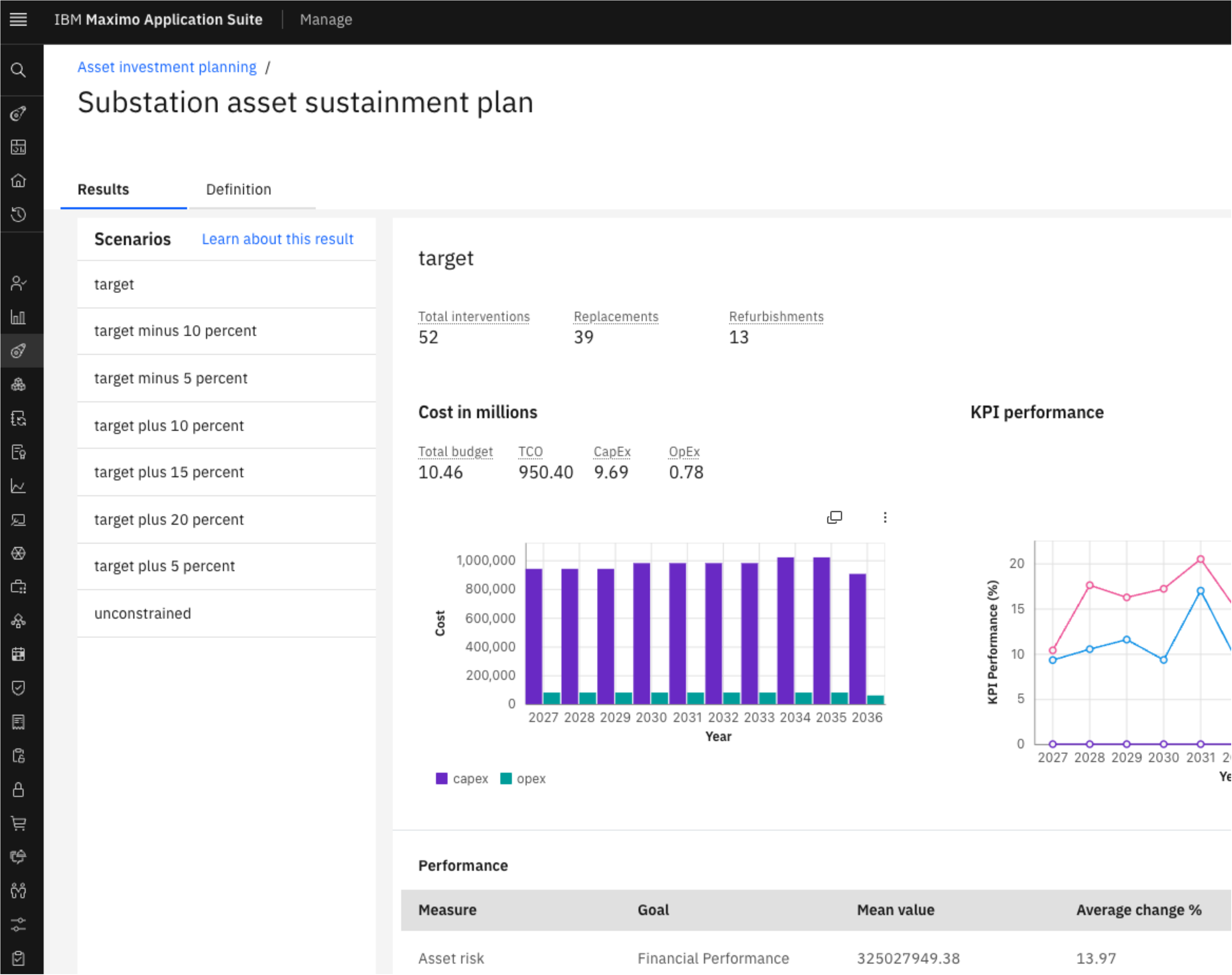
Effective age formula

0.3*((MSINCE(NVL(installdate,\$sysdate\$)))/12)+0.7*(EXPECTEDLIFE*(1-(ASSETHEALTH/100)))

Average maintenance cost (annual)

20,000.00

Strategy Optimization
generates asset
investment scenarios
designed to minimize
lifecycle costs and risks
while satisfying financial
constraints.



Investment plans enable users to publish optimized scenarios and generate work orders for specific asset interventions within the plan.

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Asset investment planning

Optimize investment plans for your assets to manage risks and reduce lifecycle costs.

Value frameworkAsset dataStrategiesInvestment plan

Results: 108View: PublicDefault view

Intervention ID	Type	Asset	Asset type	Location	T
Intervention ID	Type				
3	replacement	7000	IT	ADDR2001	
4	replacement	7003	IT	ADDR2001	
5	replacement	7200	IT	HARDWARE	
7	replacement	A7700	IT	ADDR2002	
8	replacement	A7800	IT	OFF301	
9	replacement	A7900	IT	ADDR2002	
6	replacement	90001	IT	OFF201	
11	replacement	9000	IT	COMP310	
12	replacement	9001	IT	COMP310	
13	replacement	9002	IT	COMP310	

Focus on integration + execution—bringing visibility to the end-to-end asset lifecycle directly within MAS

9.2

Implement key usability improvements

- Enhanced asset selection addressing the needs of large asset populations (*March FC*)
- Leverage existing usage patterns such as Maximo Queries (*March FC*)
- Enable background execution of optimization jobs to greatly improve performance (*March FC*)
- Failure curve fitment based on work order data (*GA*)

9.2

Deliver a continuous, closed-loop planning process

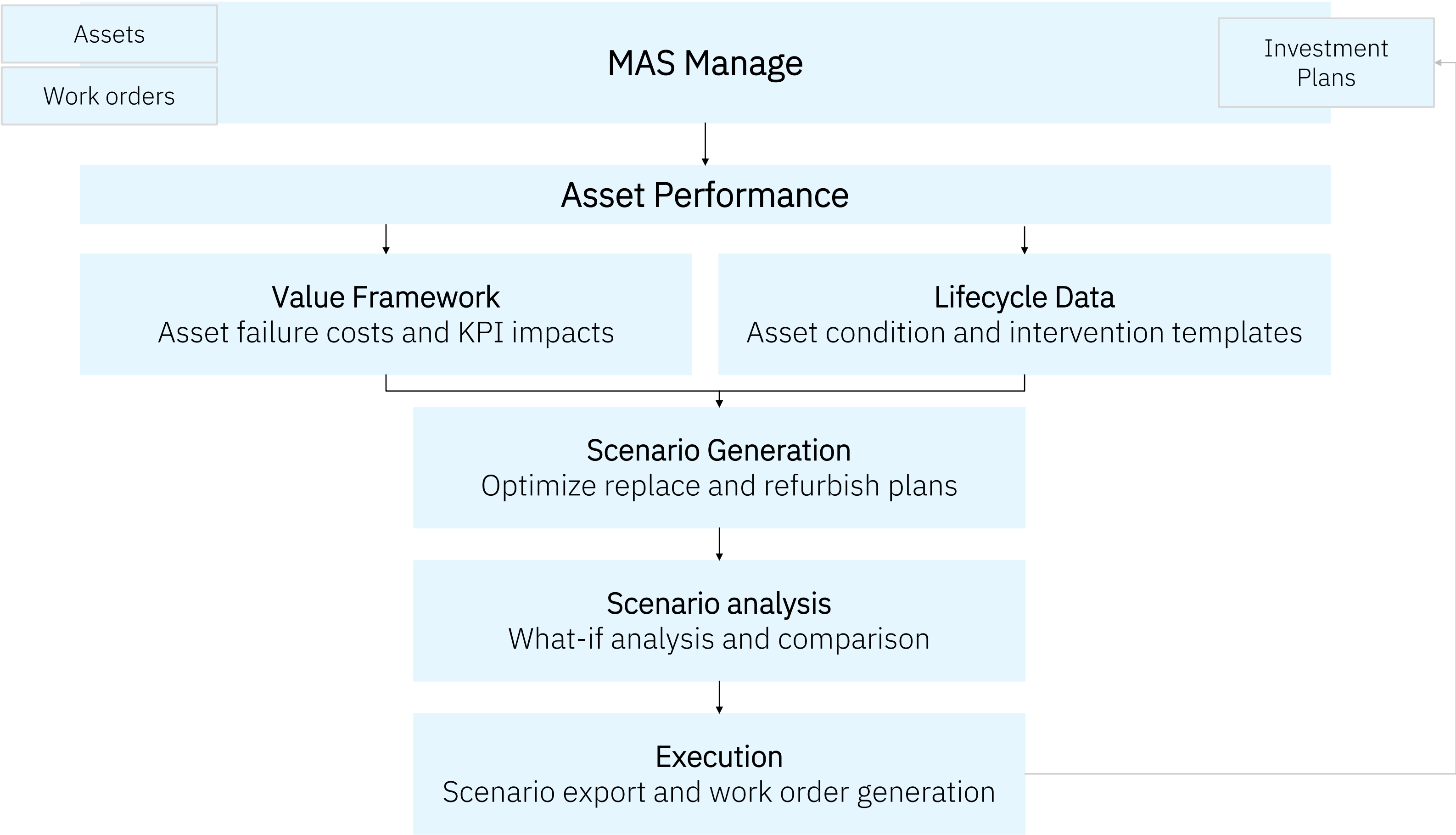
- Introduces a true end-to-end pipeline from optimization → planning → execution
- Generate investment plans from AIP (*April FC*)
- Integrates AIP with Job Plans in Manage (*April FC*)
- Additional usability improvements (*April FC*)
- Enables creation of work orders (*GA*)

9.3+

Modernize and simplify the experience

- Strengthened integration of Health and AIP
- Measure library for Value Framework development
- Additional investment use cases (upgrade, new measure types)
- Advanced financial, resource, and KPI constraints
- Smart project bundling
- Agentic AI for value framework development

AIP built natively into the Maximo Application Suite just makes sense



Easily activated
Simply activate AIP and Optimizer via the catalogue if you're already a Manage client. No need for complex integrations between systems.

Flexibly Deployed
Available both SaaS and Customer Managed (On Prem).

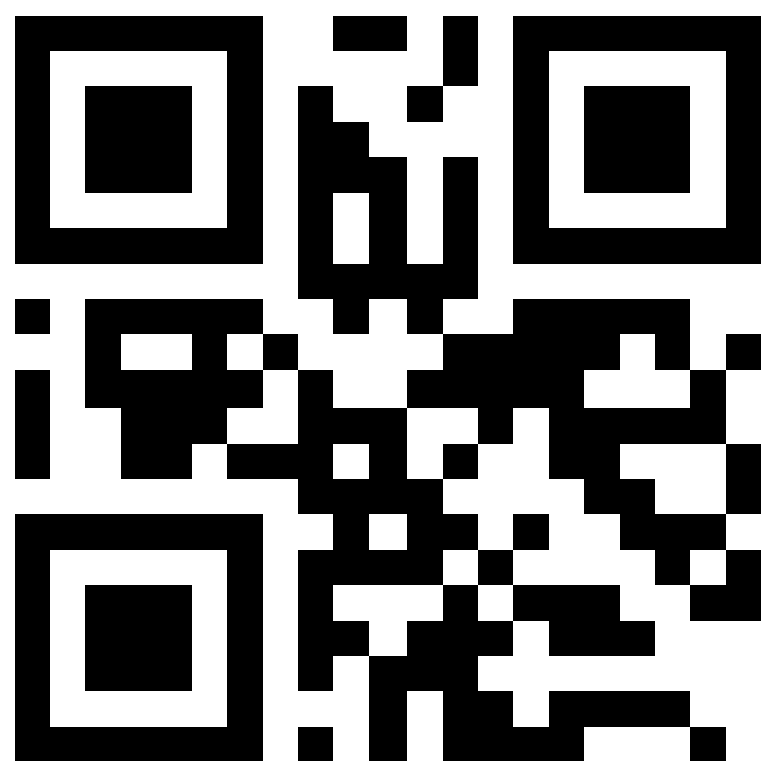
User Configurable
All aspects of the Asset Investment Planning solution—including asset modeling and the value framework—are configured directly within Maximo's user-friendly UI.

What's Next?

Participate in Usability Testing
Email us directly to participate in our usability testing initiative related to the upcoming 9.2 GA release of Maximo AIP



Take a clickthrough tour of AIP
Check out our latest guided clickthrough of Maximo AIP to get a sense of how this capability would fit your process



Check out an AIP blog
A thought-leadership blog presenting a new, risk-informed optimization approach for asset investment planning

