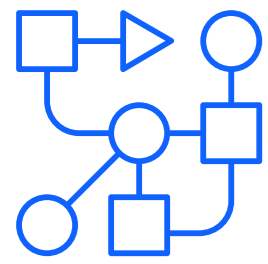
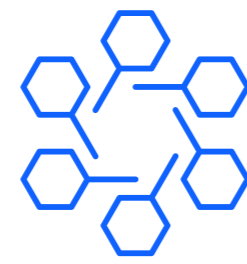


Optimizing asset investments in the the Maximo Application Suite

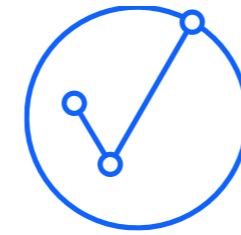
To answer this question, we need to think in terms of the complete asset lifecycle



Establish a consistent methodology for assessing asset health and criticality



Optimize Preventative Maintenance schedules based on criticality and cost



Proactively identify and remediate issues through inspections and monitoring



Optimize sustainment capital to minimize long-term TCO and risk

In practice, this is hard to achieve for several reasons

1

Large, geographically diverse asset portfolios makes it difficult to avoid blind-spots

2

Different teams looking after different asset families and or regions, often leveraging different approaches

3

Ad-hoc tools and processes are time consuming and lack agility to confidently make decisions

4

Disconnect between operations and strategic planning systems + processes

5

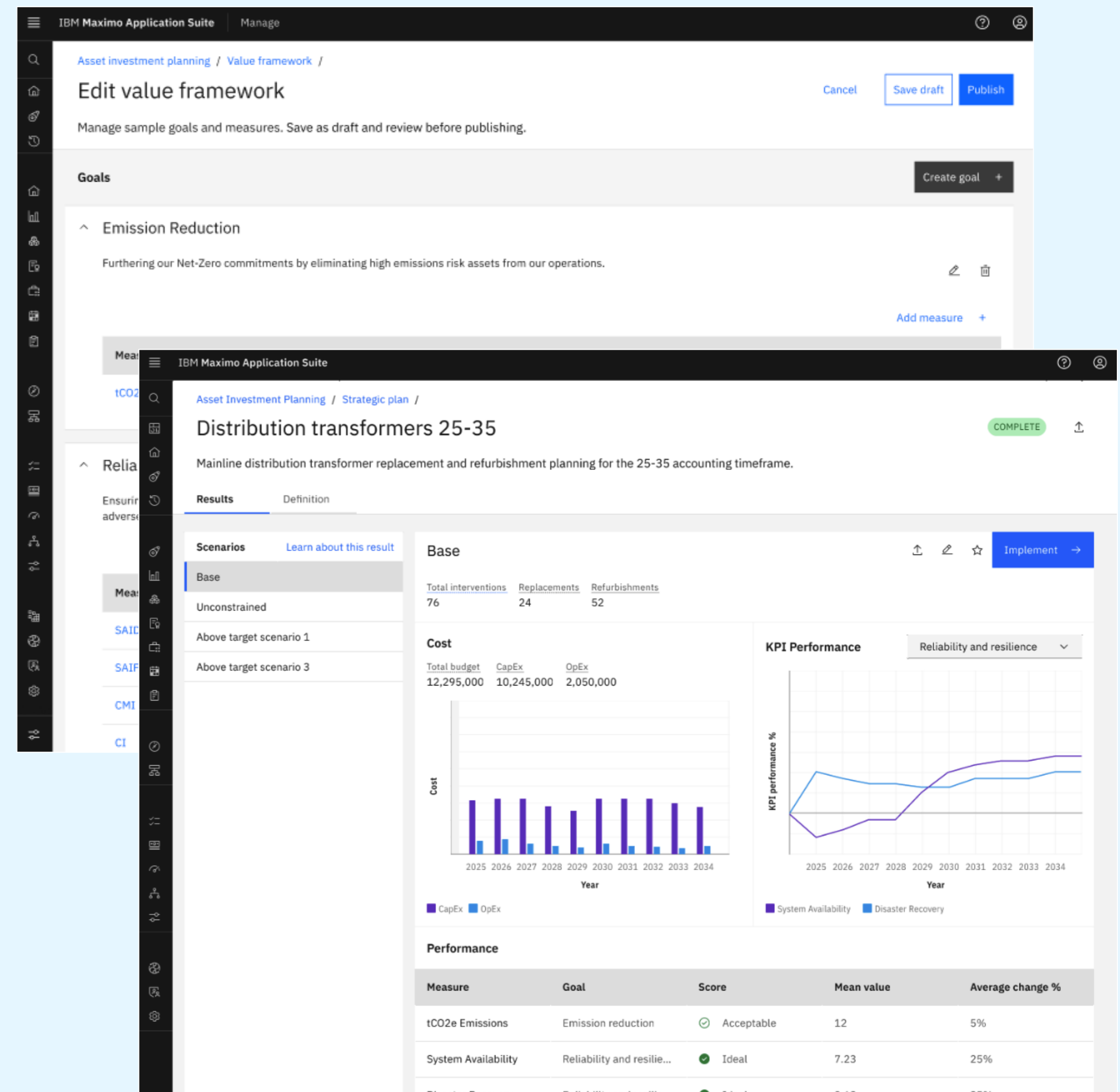
Aging infrastructure, increasing climate risks, and limited resources

6

Changing customer expectations demanding more from existing assets

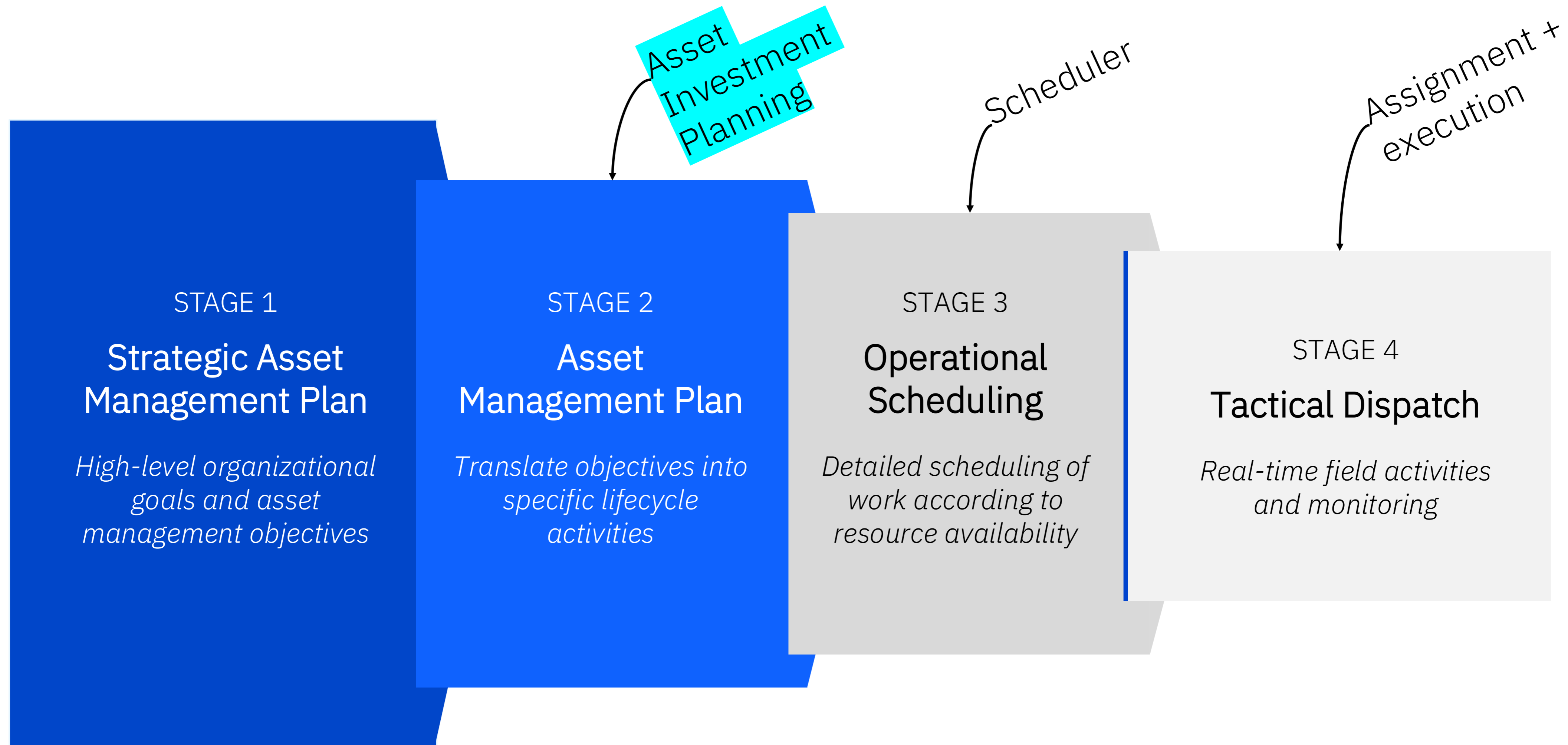
How can Maximo Application Suite help with this planning challenge?

- **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

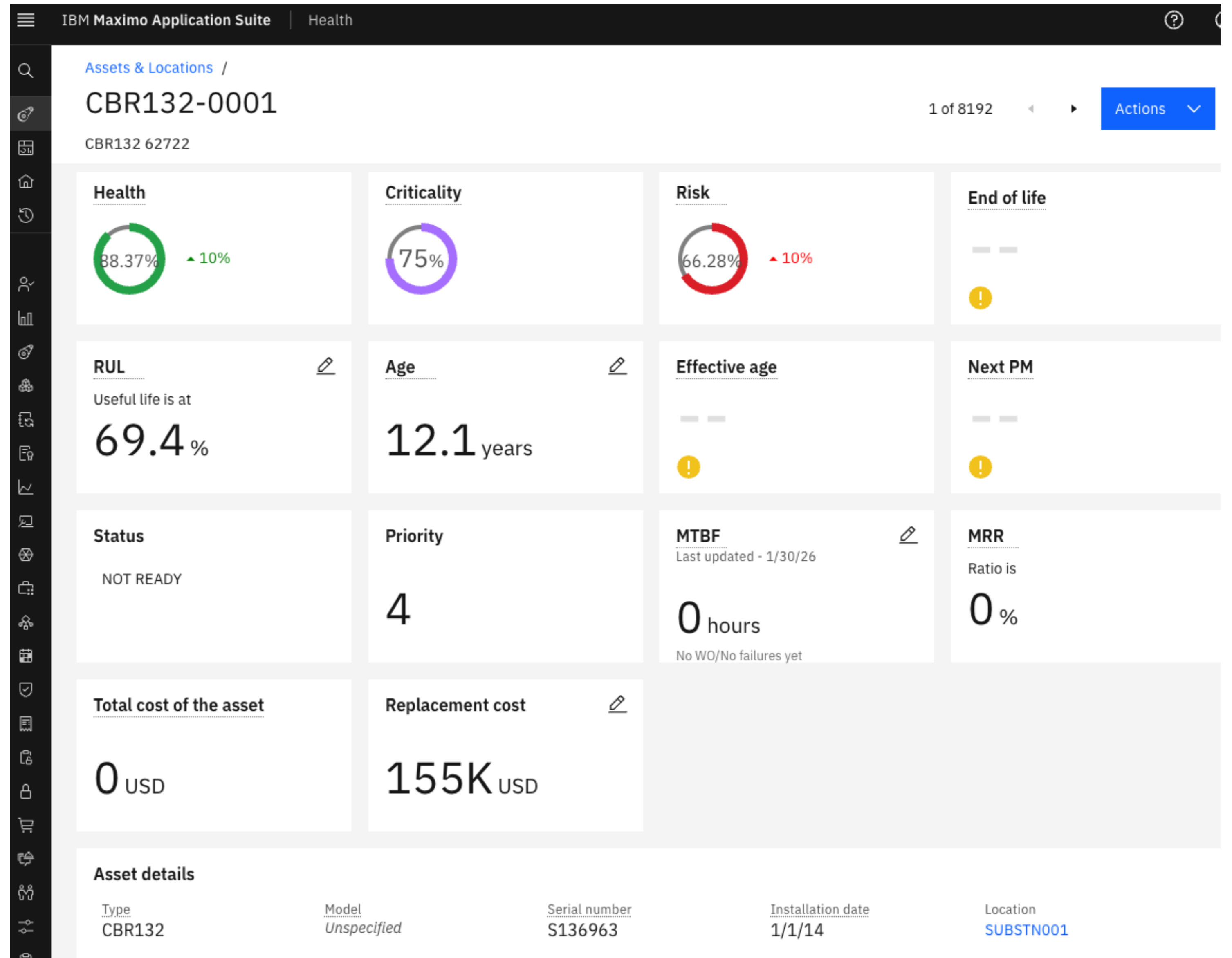


The planning funnel in Maximo Application Suite

Aligned with ISO 55000 best practices



Health offers a consolidated view of asset characteristics and ensure consistent decision making



IBM Maximo Application Suite | Health

Assets & Locations / CBR132-0001
CBR132 62722

1 of 8192 | Actions

| | | | |
|--|-------------------------------------|---|-------------------------------|
| Health 88.37% ▲ 10% | Criticality 75% | Risk 66.28% ▲ 10% | End of life -- ! |
| RUL Useful life is at 69.4% | Age 12.1 years | Effective age -- ! | Next PM -- ! |
| Status NOT READY | Priority 4 | MTBF Last updated - 1/30/26 0 hours No WO/No failures yet | MRR Ratio is 0% |
| Total cost of the asset 0 USD | Replacement cost 155K USD | | |

Asset details

| | | | | |
|--------|-------------|---------------|-------------------|-----------|
| Type | Model | Serial number | Installation date | Location |
| CBR132 | Unspecified | S136963 | 1/1/14 | SUBSTN001 |

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

The screenshot displays the 'Asset investment planning' interface in IBM Maximo. The page title is 'Asset investment planning' with a subtitle 'Optimize investment plans for your assets to manage risks and reduce lifecycle costs.' There are three tabs: 'Value framework' (selected), 'Assets data', and 'Strategic plan'. A notification banner at the top states 'Unpublished draft. A value framework is in draft status and contains unpublished changes.' with a 'Continue editing' link.

The main content is organized into two sections: 'Safety Compliance' and 'Operational Continuity'. Each section includes a goal description and a table of measures.

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.

| 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.

| 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

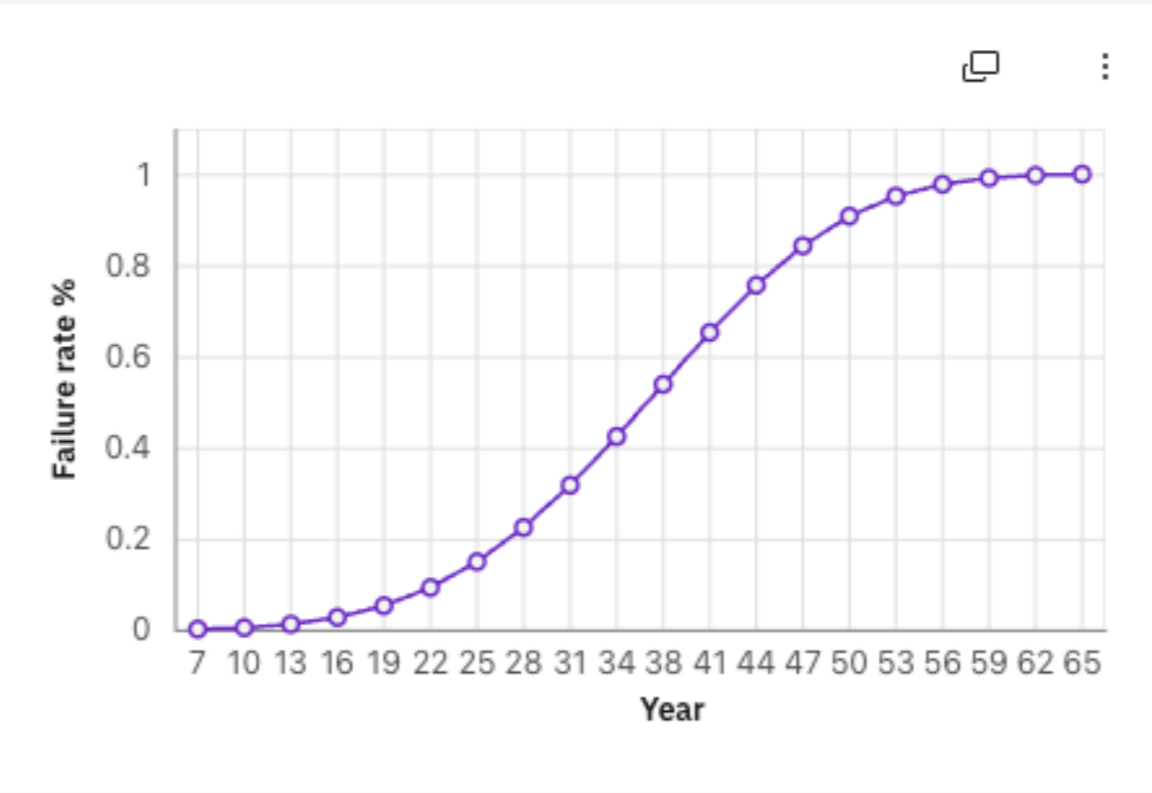
0 assets

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.



| Year | Failure rate % |
|------|----------------|
| 7 | 0.00 |
| 10 | 0.01 |
| 13 | 0.02 |
| 16 | 0.04 |
| 19 | 0.07 |
| 22 | 0.11 |
| 25 | 0.16 |
| 28 | 0.22 |
| 31 | 0.29 |
| 34 | 0.37 |
| 38 | 0.48 |
| 41 | 0.59 |
| 44 | 0.70 |
| 47 | 0.80 |
| 50 | 0.88 |
| 53 | 0.94 |
| 56 | 0.97 |
| 59 | 0.99 |
| 62 | 1.00 |
| 65 | 1.00 |

Edit curve | Delete

Asset lifecycle details

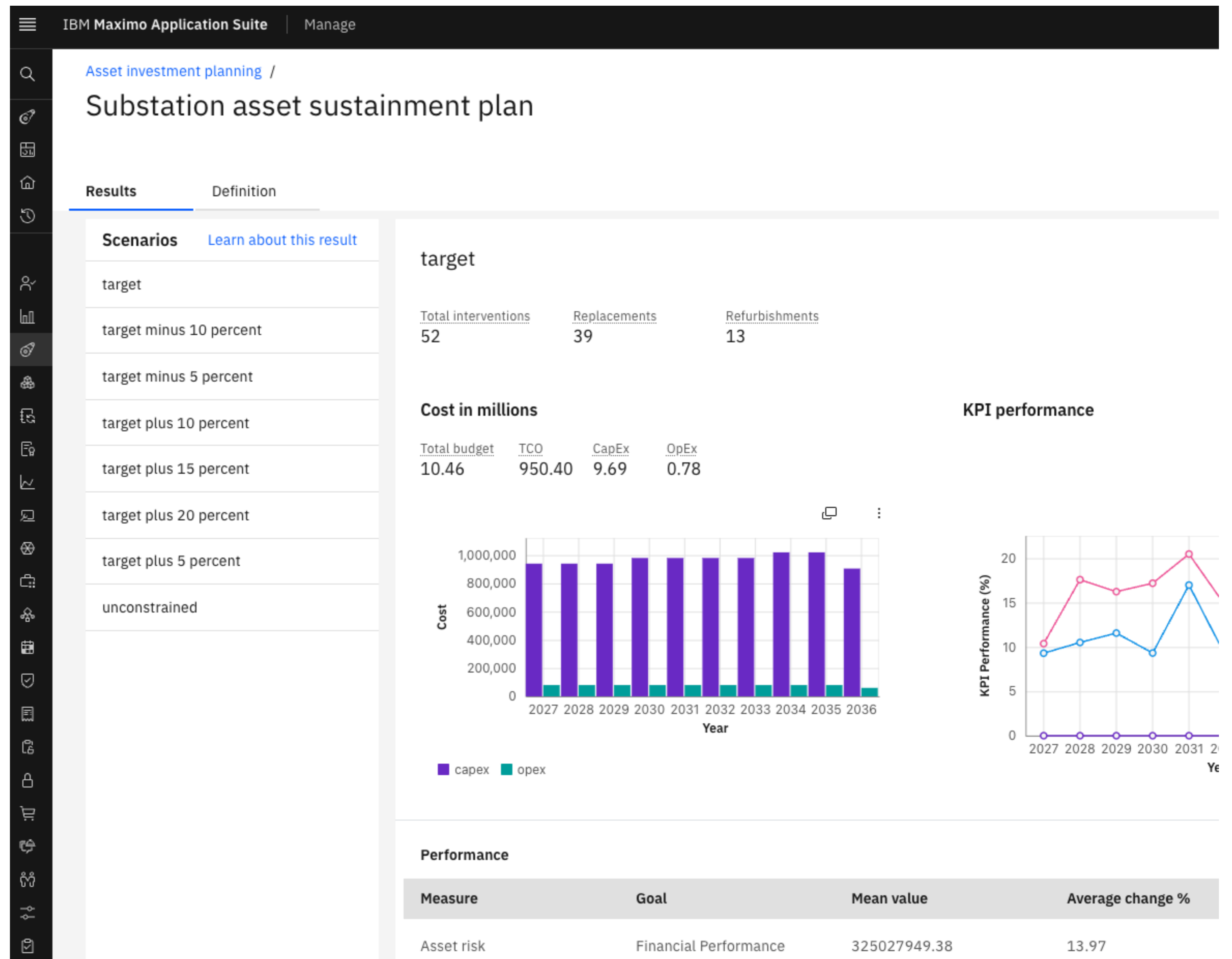
Effective age formula

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

Average maintenance cost (annual)

20,000.00

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



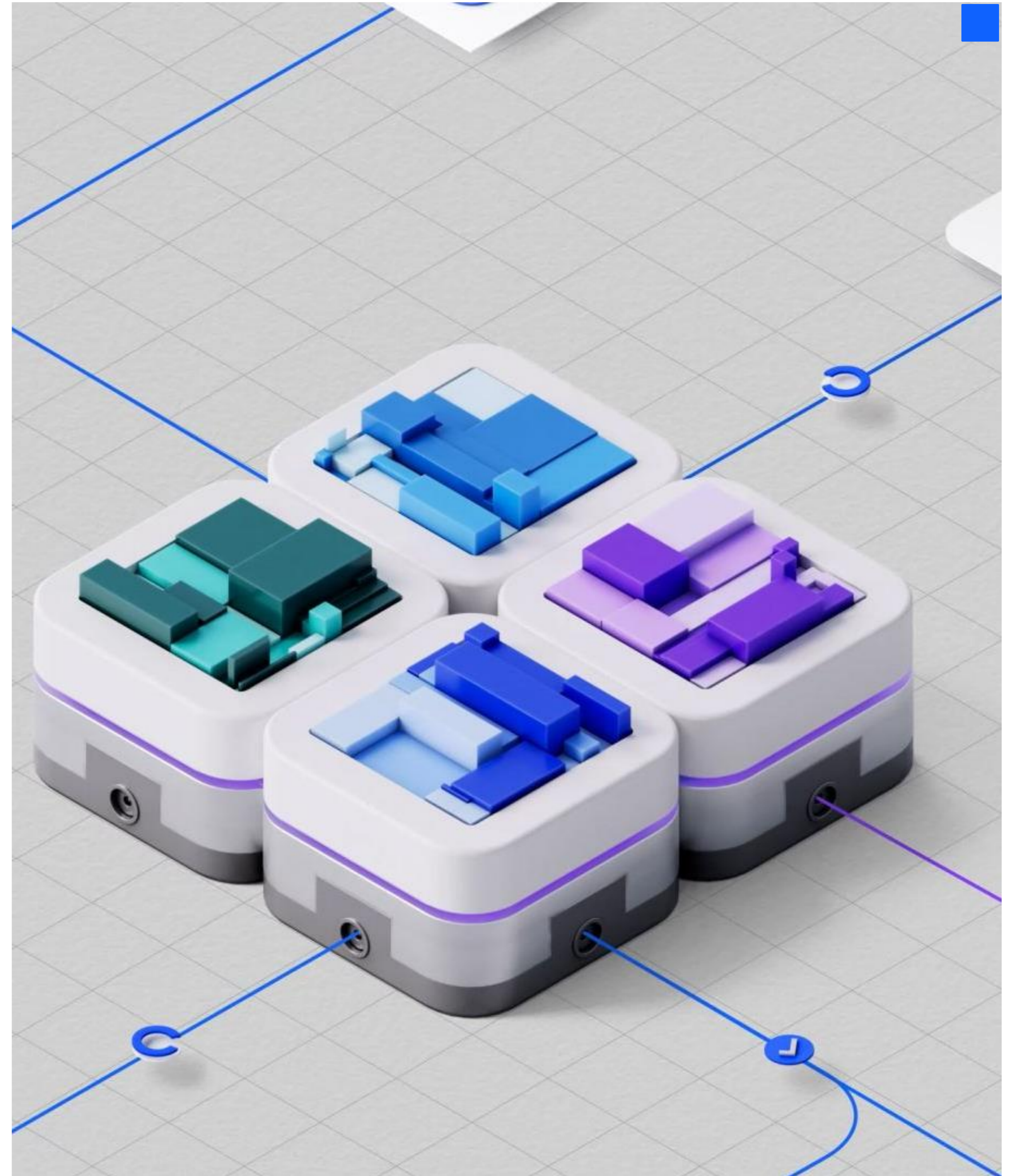
Investment plan creation and execution enables users to build investment plans and generate executable work orders directly from these plans

* Coming in 9.2 GA

The screenshot displays the IBM Maximo Application Suite interface for 'Asset investment planning'. A notification at the top states 'Investment plan was changed' with a 'Redeploy' button. The main view shows a table of interventions with columns for Intervention ID, Type, Asset, Asset type, Location, Target year, and Work order. A bar chart on the left shows 'OpEx' from 2025 to 2029.

| Intervention ID | Type | Asset | Asset type | Location | Target year | Work order |
|-----------------|---------------|-------------|----------------|-----------|-------------|------------|
| 1 | Refurbishment | DISTRF_2303 | DISTRIBUTIO... | Doverton | 2026 | WO7360 |
| 2 | Refurbishment | DISTRF_2304 | DISTRIBUTIO... | Edgehill | 2026 | - |
| 3 | Refurbishment | DISTRF_2301 | DISTRIBUTIO... | Bedford | 2027 | WO9860 |
| 4 | Refurbishment | DISTRF_2302 | DISTRIBUTIO... | Crestwood | 2027 | - |
| 5 | Refurbishment | DISTRF_2305 | DISTRIBUTIO... | Fairview | 2027 | - |
| 6 | Refurbishment | DISTRF_2307 | DISTRIBUTIO... | Glenhaven | 2028 | - |
| 7 | Refurbishment | DISTRF_2309 | DISTRIBUTIO... | Hillside | 2028 | - |
| 8 | Refurbishment | DISTRF_2312 | DISTRIBUTIO... | Kingsbury | 2029 | - |
| 9 | Refurbishment | DISTRF_2313 | DISTRIBUTIO... | Mapleton | 2029 | - |

Demo



Publish Scenarios to the Investment Plan

continuously update a single view of the investment plan across all assets.


The screenshot displays the 'Asset investment planning' interface. At the top, a notification states 'Investment plan was changed' with a 'Redeploy' button. Below this, a 'Deploy' button is visible. The main content area is titled 'Asset investment planning' and includes a sub-header 'Optimize investment plans for your assets to manage risks and reduce lifecycle costs.' The interface features several tabs: 'Value framework', 'Asset data', 'Strategic plans', and 'Investment plan' (which is currently selected). Below the tabs, there is a search bar and a filter for 'Results: 76'. A filter for 'Originated: DT 2026-2035 (7)' is also present. The main data is presented in a table with columns for 'Intervention ID', 'Type', 'Asset', 'Asset type', 'Location', 'Target year', and 'Work order'. The table lists nine interventions, all of which are 'Refurbishment' types for 'DISTRIBUTIO...' assets, with target years ranging from 2026 to 2029. A bar chart on the left side of the interface shows 'OpEx' (Operating Expense) from 2025 to 2030, with values ranging from approximately 10,245,000 to 12,295,000. The chart shows a general upward trend in OpEx over the period.


| Intervention ID | Type | Asset | Asset type | Location | Target year | Work order |
|-----------------|---------------|-------------|----------------|-----------|-------------|------------|
| 1 | Refurbishment | DISTRF_2303 | DISTRIBUTIO... | Doverton | 2026 | WO7360 |
| 2 | Refurbishment | DISTRF_2304 | DISTRIBUTIO... | Edgehill | 2026 | - |
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| 8 | Refurbishment | DISTRF_2312 | DISTRIBUTIO... | Kingsbury | 2029 | - |
| 9 | Refurbishment | DISTRF_2313 | DISTRIBUTIO... | Mapleton | 2029 | - |

*Generate work orders
Create work orders for
asset interventions
directly from the
Investment Plan*

reduce lifecycle costs.

Investment plans

Generate work order  | Clear selection

| Asset type | Location | Target year  | Work order | Status | Originated |
|----------------|-----------|---|------------------------|--------|----------------------------|
| DISTRIBUTIO... | Doverton | 2026 | - | - | DT 2026-20 |
| DISTRIBUTIO... | Edgehill | 2026 | - | - | DT 2026-20 |
| DISTRIBUTIO... | Bedford | 2027 | WO9860 | WAPPR | DT 2026-20 |
| DISTRIBUTIO... | Crestwood | 2027 | - | - | DT 2026-20 |
| DISTRIBUTIO... | Fairview | 2027 | - | - | DT 2026-20 |
| DISTRIBUTIO... | Glenhaven | 2028 | - | - | DT 2026-20 |
| DISTRIBUTIO... | Hillside | 2028 | - | - | DT 2026-20 |

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

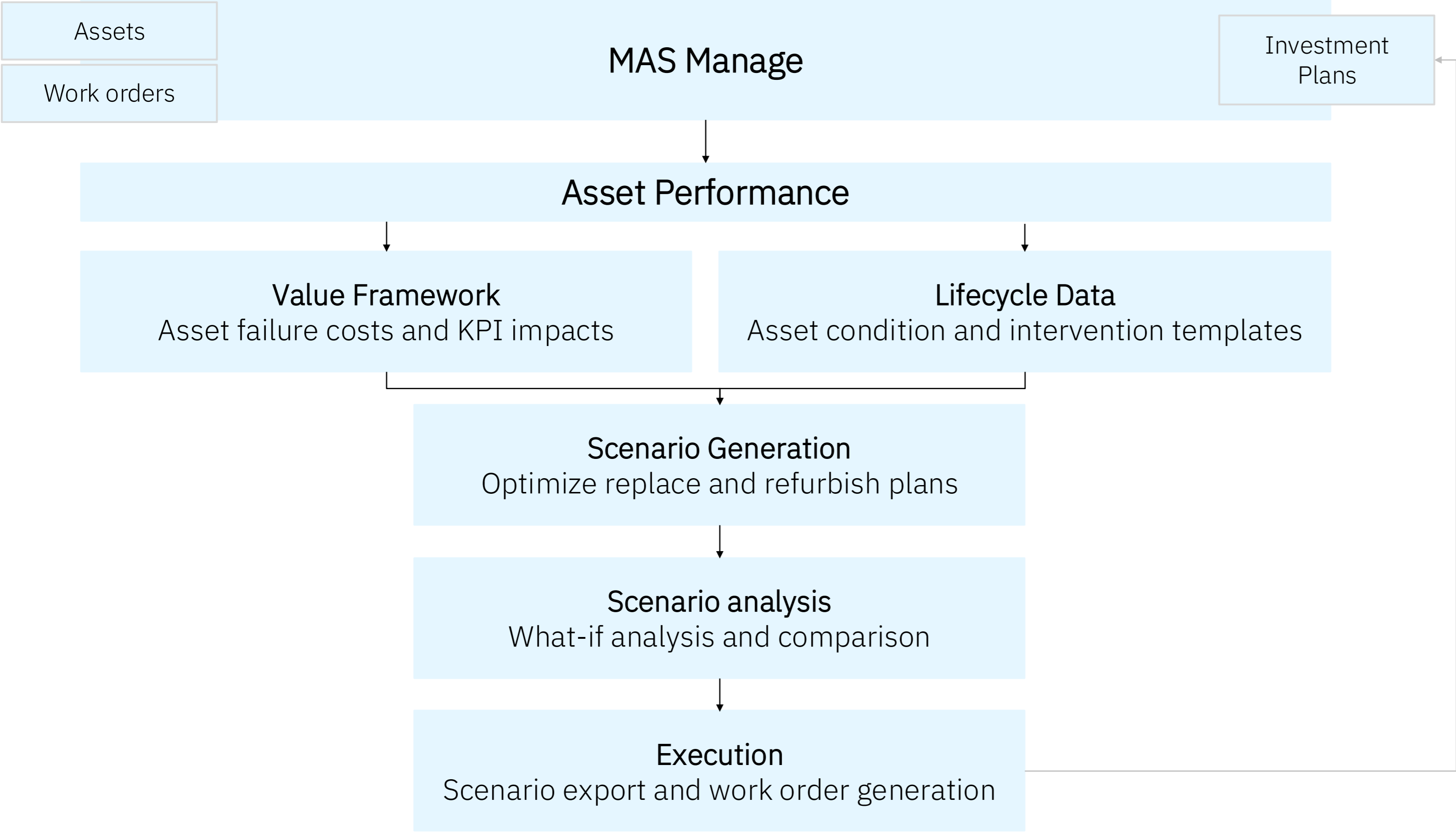
- Introduces a true end-to-end pipeline from optimization → planning → execution
- Generate investment plans from AIP (*April FC*)
- Integrates AIP with Job Plans in Manage (*April FC*)
- Additional usability improvements (*April FC*)
- Enables creation of work orders (*GA*)

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 measure formula 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?

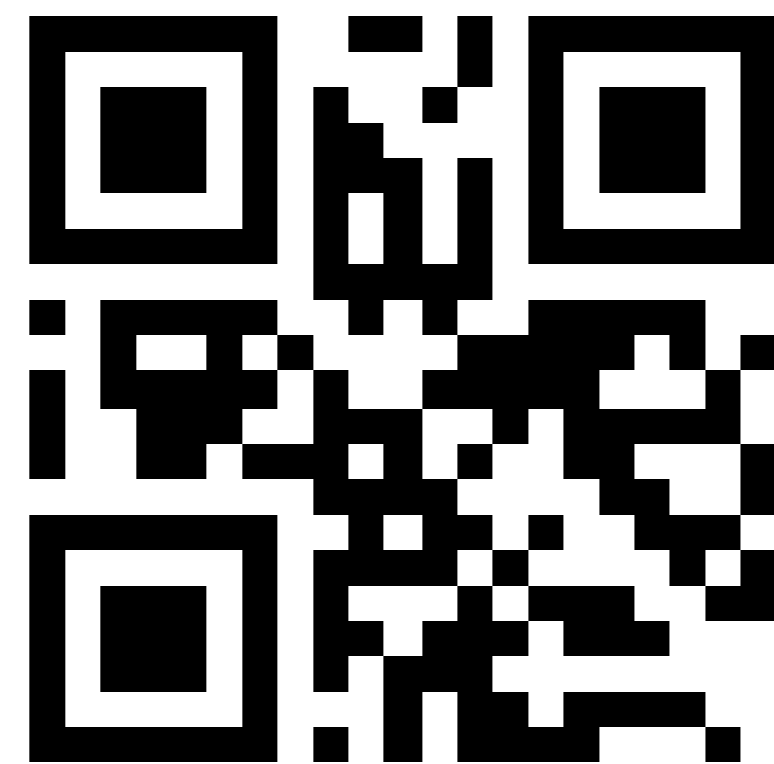
Participate in Usability Testing

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



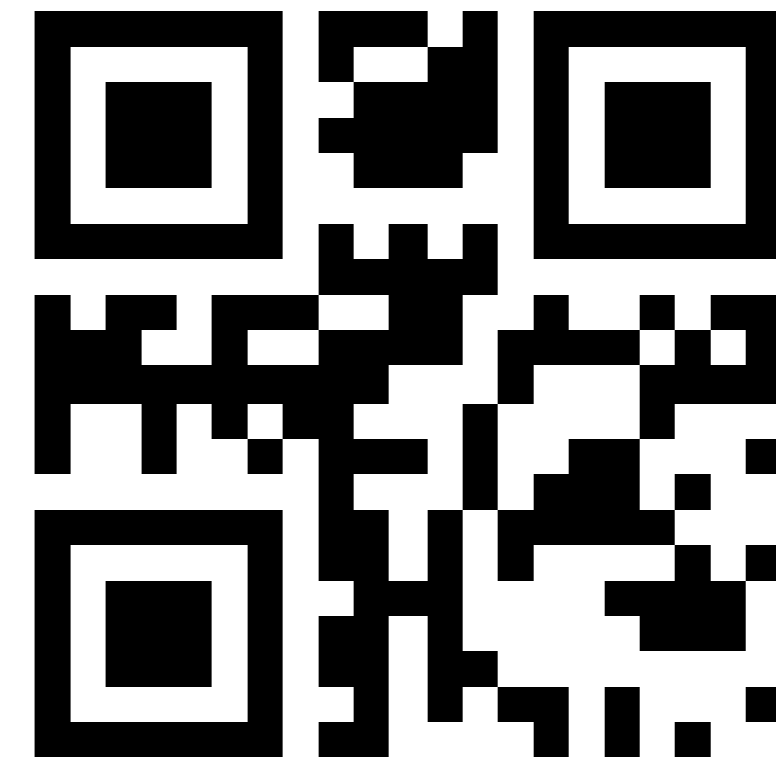
Take a clickthrough tour of AIP

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



IBM