

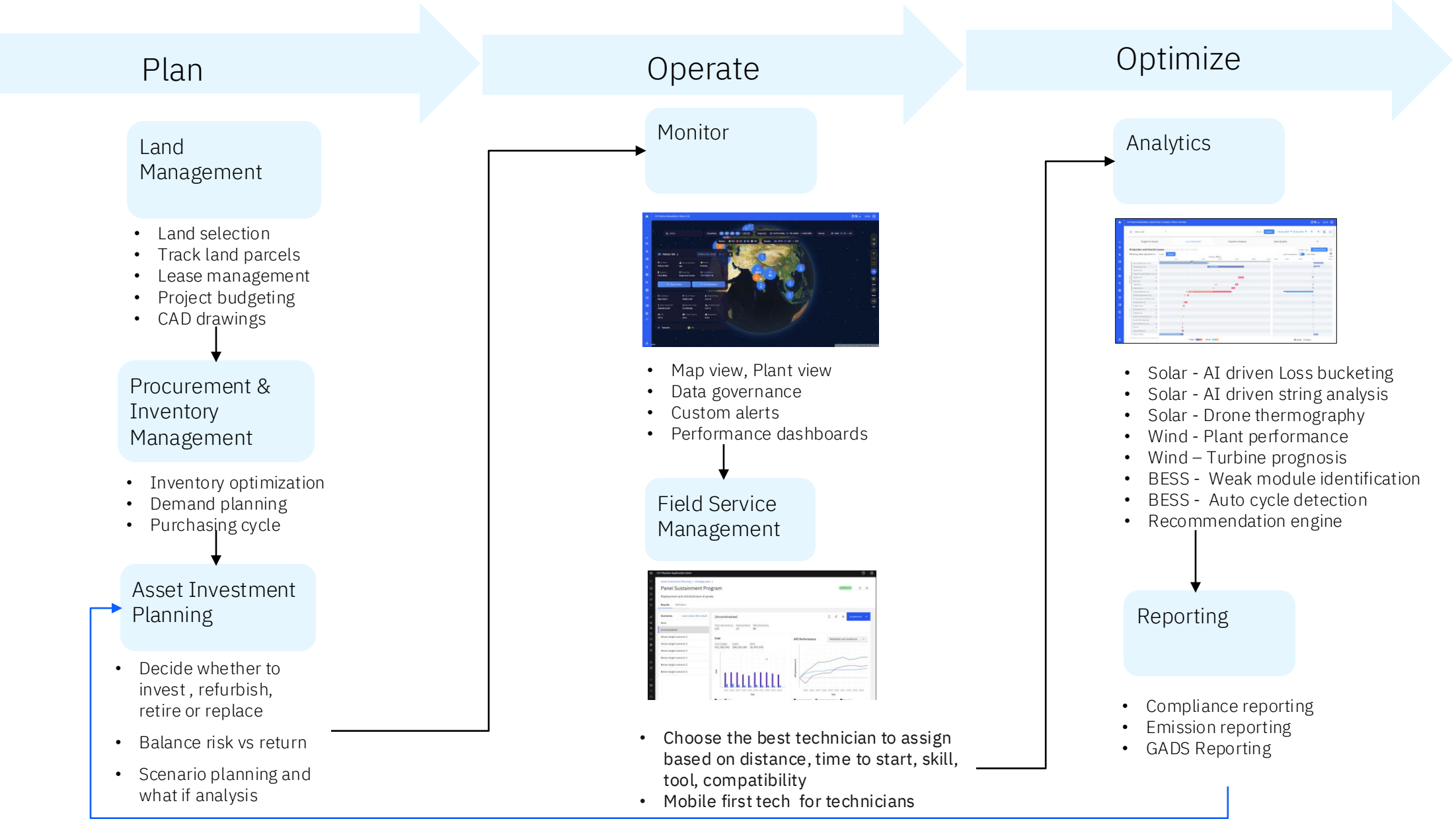
Unlocking Renewable Energy Performance with AI-Driven Asset Management

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IBM

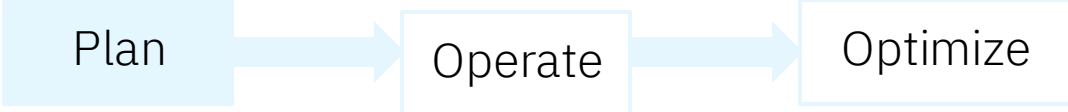




End-to-end ALM for renewables



Navigating land use and procurement complexities



60% of project delays come from land disputes and lease management

accelerate timeline by 30%

IBM Maximo Application Suite | Real Estate and Facilities

Home

- Reminders
 - 358 - Notifications
- Reminders - RE Contract Manager
 - Notices
 - RE Contracts
 - Asset Leases
 - RE Contract Payables
 - Asset Lease Payables
 - RE Contract Receivables
 - Asset Lease Receivables
- Contracts
 - Lease Abstracts
 - Real Estate Leases
 - Asset Leases
 - Subscription Based IT Arrangements (SBITA)
 - Owned Properties Agreements
 - Critical Dates

Leases by Primary Use

Leases by Expiration

Lease Supply by Year

Area - Average

Year	Area - Average
2011	~5k
2012	~10k
2013	~100k
2014	~100k
2015	~100k
2016	~100k
2017	~100k
2018	~100k
2019	~100k
2020	~100k
2021	~100k
2022	~100k
2023	~100k
2024	~100k
2025	~100k
2026	~100k

Location

- Beijing Office
- Brisbane Training Centre
- Cape Town Educational C...
- Dubai Watson Center
- Frankfurt Watson Centre
- GPEU Store 2626
- Hong_Kong_Watson_Cen...
- Little Office Plaza
- London Commons
- Madrid Way
- Melbourne Way
- Moscow Complex
- Prague Watson Centre
- Rio Complex
- Sao Paulo Watson Center
- Sydney Plaza
- Tel Aviv Centre

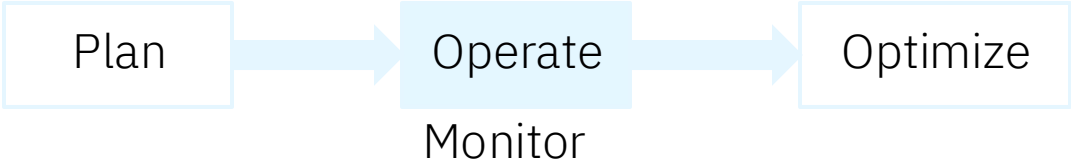
Abby
Lease Abstractor

Abby opens her preconfigured Maximo dashboard to quickly access [KPIs](#), [notifications](#), and [links to lease workflows](#).

Abby checks her notifications to prioritize her work for the day.

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From Data Overload to Decisions: Monitoring Made Smarter



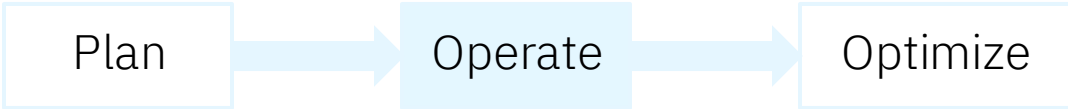
75% of
renewable companies
face data silos issues

Unified real time
data integration <

2s latency



AI driven field service optimization



Field service management

20%

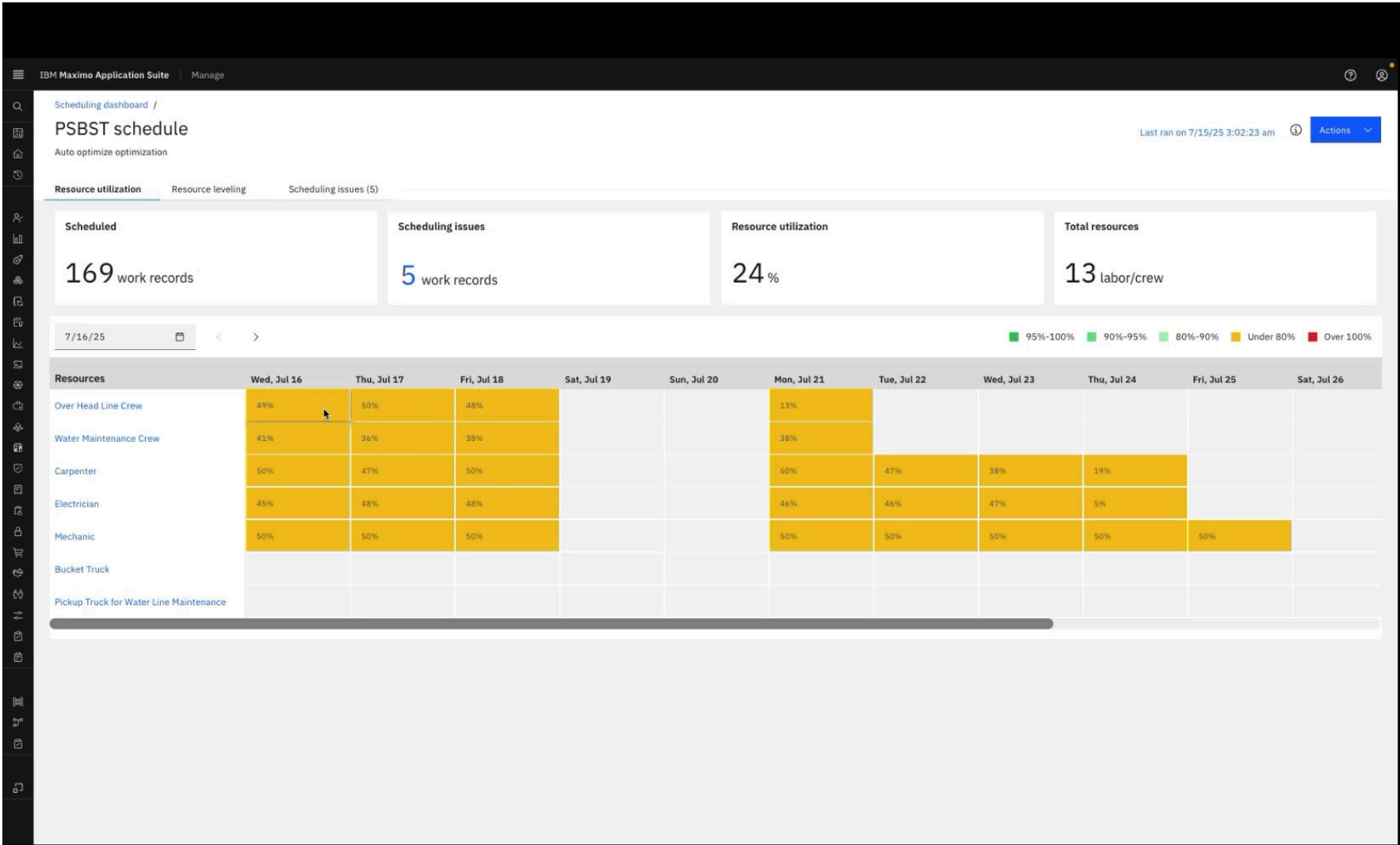
Fail 1st time fix ratio

15%

reduction in travel time

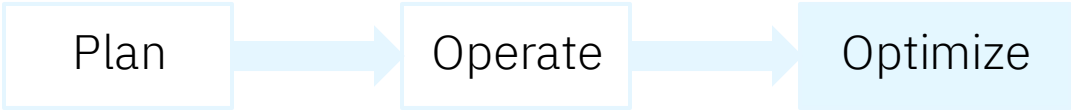
10%

reduction in downtime



AI powered analytics

Solar, Wind, BESS



Analytics

4.6B\$

solar annual revenue loss

65%

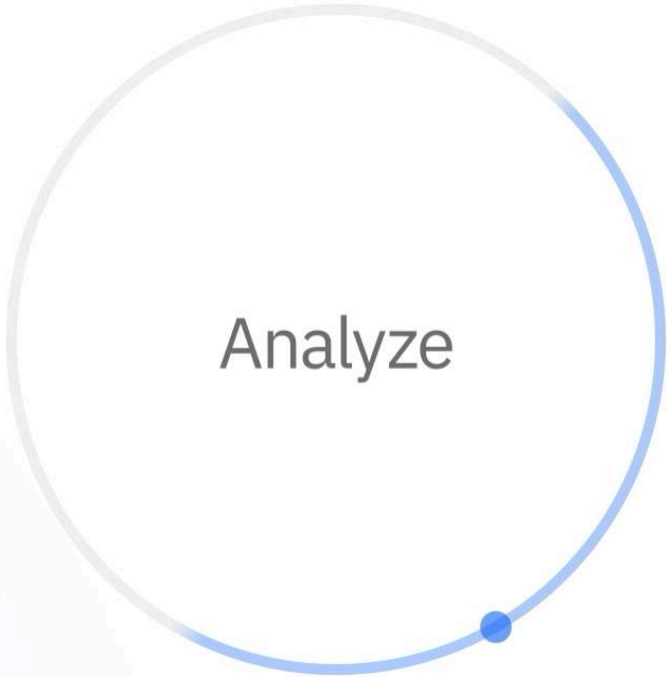
BESS failures due to integration, O&M flaws

3-7%

Increase in generation

3%

Reduced maintenance cost



Filters

Inverter BLK01-INV01 +99

Combiner Box Select CombinerBox

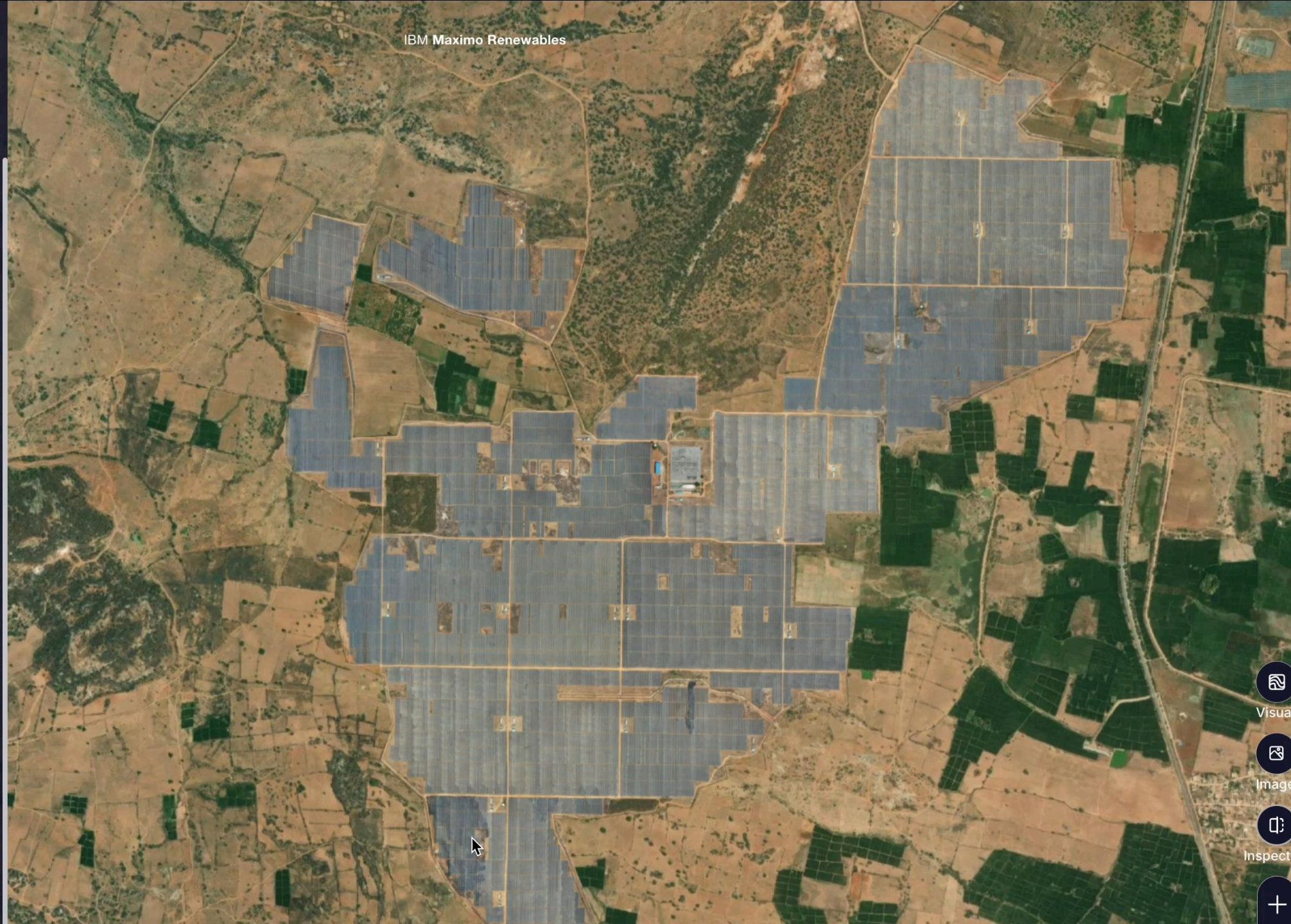
String Select String

Scope String Analysis

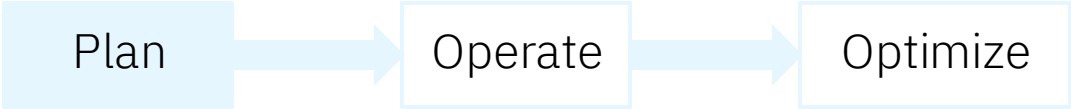
Apply

Defects

Category	Defects	Work Order
Module Hot	442	0 / 0
Hotspot	309	1 / 1
Dirt/Shadow	198	0 / 0
Bypass Diode Failure	60	0 / 0
Module Short Circuit	60	0 / 0
Vegetation	17	0 / 0
String Hot	6	0 / 0
String Reverse Polarity	0	0 / 0
Cable Point	0	0 / 0



Challenge & Solution: Smarter Asset Investments



40% of costs can spiral out of control due to poor planning

AI-powered 'what-if' analysis slashes asset investment mistakes by

25%

Define plan scope

Add assets

*Strategic plan

Panel Sustainment Program

Description 100/500

Replacement and refurbishment of panels

Time scope

*Planning horizon (years)

10 - +

*Target start year

2026 - +

Plan constraints

Annual CapEx target (\$)	Upper limit buffer (%)	Lower limit buffer (%)
10000000 - +	5 - +	5 - +
Annual OpEx Target (\$)	Upper limit buffer (%)	Lower limit buffer (%)
1000000 - +	5 - +	5 - +

Cancel Save Create

Vision- Analytics for the autonomous asset future

What if your renewable energy assets could think, act, and heal themselves?

The agent identifies top 5 problems for your plant, create and prioritize work orders?

Generative AI is evolving to support autonomous agentic AI systems

AI-Assisted Support

Uses AI in a primarily human workflow to clarify or understand context-based information that are not easily accessible in my systems in real-time.

Fully Automated Workflows

Uses AI to initiate and execute prescriptive workflows with minimal human interventions to review and approve important tasks.

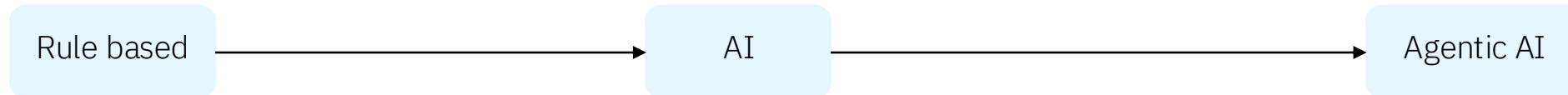
- Double check human work with AI
- Do tasks that can usually be done manually but in a quicker and more convenient manner

- Use some automation for simple workflows
- Require frequent human reviews and approval
- Customize prescriptive workflows

- Use full automation for complex workflows
- Self-sustaining and self-learning without human intervention

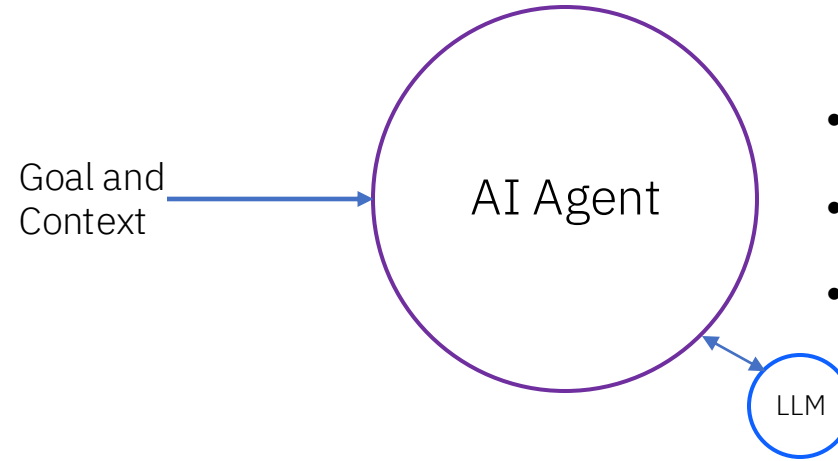
Less AI

More AI



What is AI Agent?

An AI agent is a system that can autonomously perceive its environment, make decisions, and take actions to achieve specific goals.



- Self-sufficient and defined by a purpose
- Decides what to do (plan, self-reflect)
- Acts to accomplish tasks / objectives

Generate content
Retrieve data
Perform actions
Execute tasks
Complete automation

Quick Insert

- [New Person](#)
- [New User](#)

Security, Users and Groups

- [Users \(Manage\)](#)
- [Security Groups \(Manage\)](#)
- [People](#)
- [Person Groups](#)

Workflow Configuration

- [Workflow Designer](#)
- [Roles](#)
- [Actions](#)
- [Communication Templates](#)

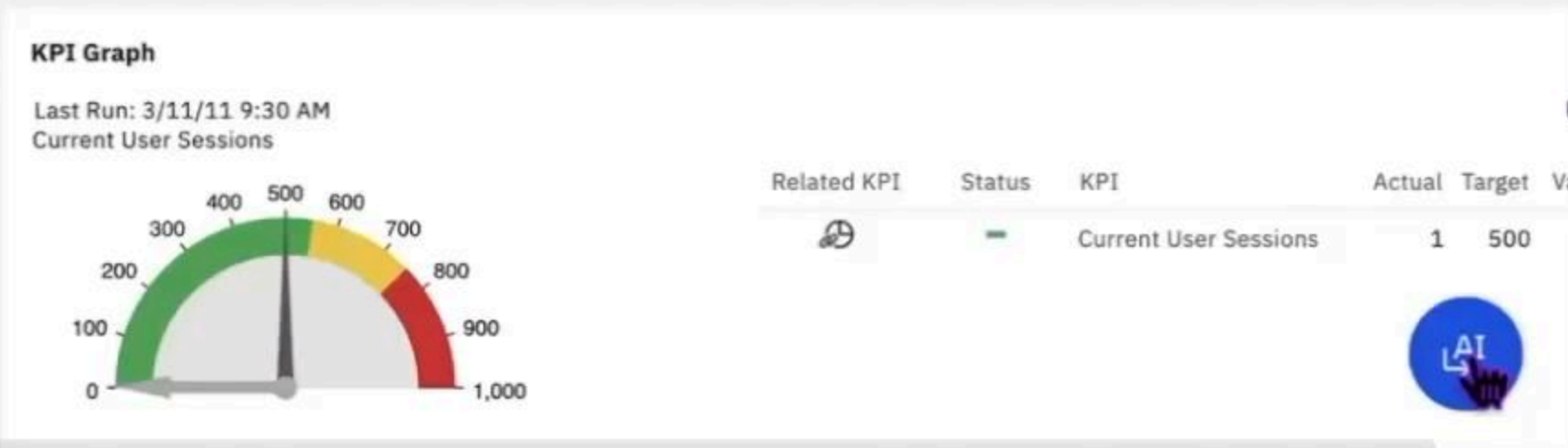
Bulletin Board Filter Search Refresh

Subject	Message	Post Date	Expiration Date	Viewed
				N

There are currently no bulletin board messages to view.

Inbox / Assignments

No Assignments found for MAXADMIN



Welcome to the world of
autonomous asset management.

Meet us at the
booth – V032

Book a meeting
with us



IBM