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Managing Maintenance

Guided and verified mobile execution



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Maintenance Challenges

Where manual maintenance can fail



Site attendance

A technician may skip the site visit and fabricate meter readings.

Readings and limits

A meter value may be entered incorrectly, or a threshold breach may be missed.

Equipment condition

Signs of wear or a condition requiring maintenance may be overlooked.

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Process and Connectivity Gaps

Checklists and site connectivity



Checklist memory

Maintenance steps may be forgotten.

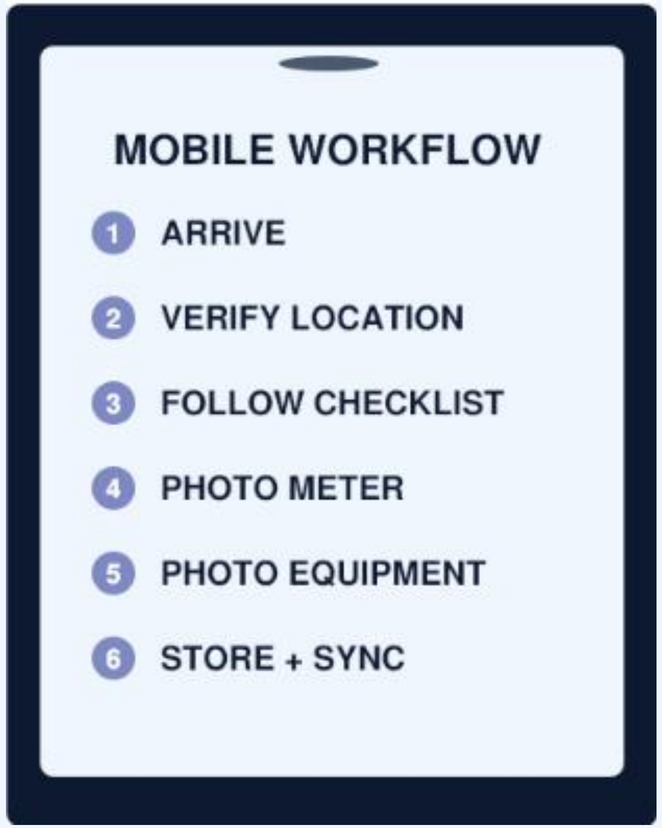
Site connectivity

Internet access may be inadequate at the equipment site.

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Guided Mobile Workflow

An ordered activity list with acknowledgement at every step



Arrive and verify

Arrive at the site and verify the location
Follow the ordered checklist for each equipment type and acknowledge every step.

Capture and check

Photograph the meter for automatic reading and threshold checks.
Photograph equipment to check visible condition.

Store and synchronize

Store the maintenance record and synchronize it with the central office.

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Site Verification

Record site attendance and confirm the activity sequence

GPS location

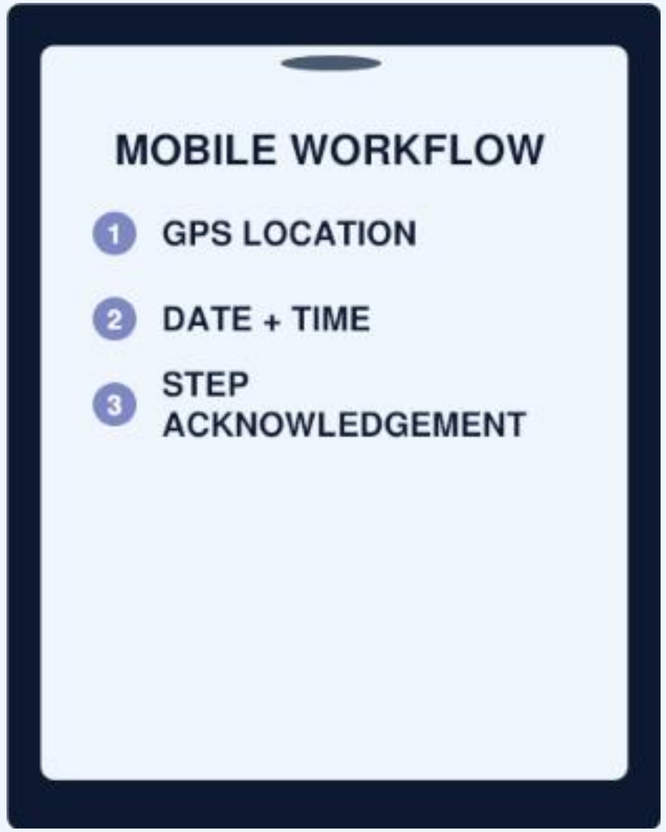
Record attendance at the equipment site.

Date and time

Record when the site activity takes place.

Step acknowledgement

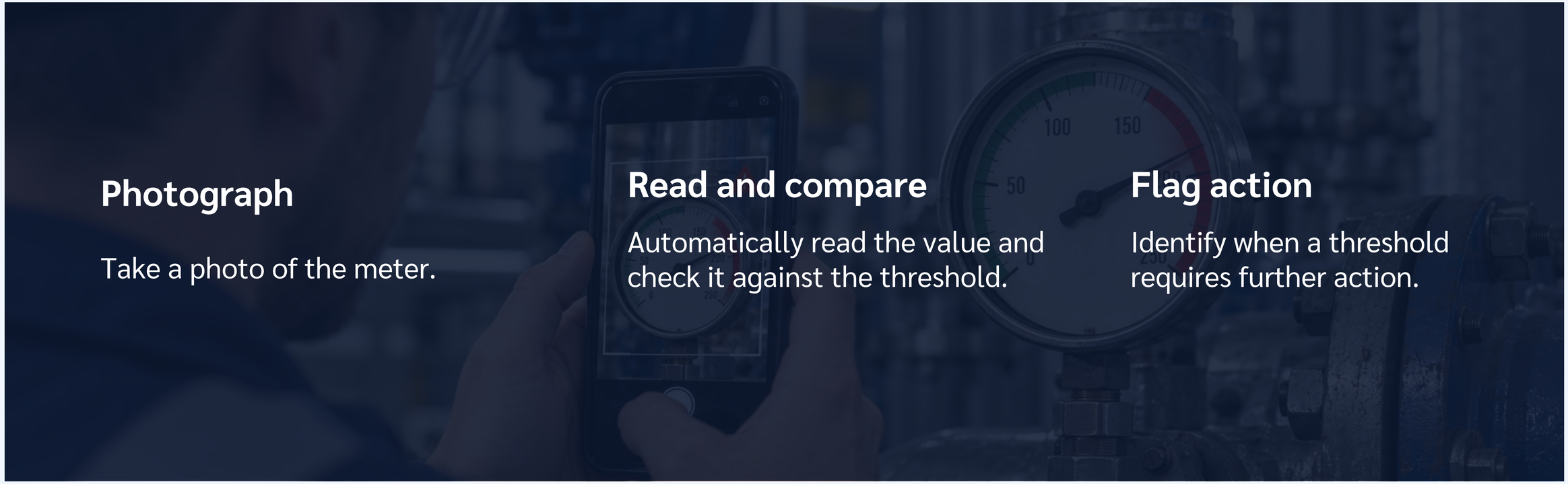
Acknowledge each step to confirm the activity sequence.



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Meter Reading and Thresholds

Capture meter readings and identify when action is required



Photograph

Take a photo of the meter.

Read and compare

Automatically read the value and check it against the threshold.

Flag action

Identify when a threshold requires further action.

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Visible Equipment Condition

Check visible characteristics for wear



Capture

Take a photo of the equipment.

Inspect

The system checks visible characteristics for signs of wear.

Act

Identify when further maintenance action is needed.

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Offline Operation

Store on the phone and synchronize when connected

01

No internet

Work at the equipment site without an internet connection.

02

Store on phone

Keep the maintenance information on the mobile phone.

03

Reconnect

Reconnect when internet access becomes available.

04

Synchronize

Send the stored information to the central office.

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Maintenance Benefits

Equipment performance, service life and safety



Performance and life

Improve equipment performance.
Extend equipment life.

Safety and failure risk

Improve safety by reducing equipment failures that could endanger lives.

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Cost Savings from Longer Equipment Life

Illustrative savings from extending equipment life

20%

Illustrative life extension

Illustrative scenario only

If maintenance extends equipment life by, for example, 20%, the resulting savings could quickly cover the cost of the system.

Actual outcomes depend on the equipment and maintenance conditions.

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About iOmniscient

Partnership

All iOmniscient Products run exclusively on Intel based computing hardware using OpenVINO™

- The use of Advanced AI technology that goes beyond Deep Learning enables iOmniscient to run its systems without the need for 3rd party GPUs.
- This reduces the power required by a factor of 16 – resulting in a 16-fold reduction in the carbon footprint.
- This is just one part of a multi-faceted program to help customers to implement Sustainable Systems.

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About iOmniscient

- iOmniscient is an **Ethical AI** company.
- It offers **multi-sensory (video-sound-smell) Artificial Intelligence based analytics for Autonomous Systems.**
- It focuses on ensuring **Outcomes** for its customers.
- With **over 2 decades of experience,** iOmniscient systems have been demonstrated to be **robust,** operating with high accuracy and few false alarms specially in **complex and crowded** environments.
- By design, its systems **reduce the cost of infrastructure** required:
  - they can use existing cameras
  - they require fewer cameras with lower resolution
  - they require 90% less storage and network bandwidth
  - they are computing light and require no GPUs
  - they allow autonomous operations requiring fewer personnel to operate
- iOmniscient has implemented projects in **70 countries.**
- With over **70 international patents** many of its capabilities are unique and unavailable from any other source.





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