

CHIMERA VISION
ENERGY / SOLAR

Intelligence that focuses the inspection.

Observe. Focus. Collect.



Concept visual | Illustrative inspection workflow

A VISION FOR ADAPTIVE SOLAR INSPECTION

Read the array. Focus the next observation.

Connect array imagery, local intelligence and operator-approved collection. Explore how a candidate observation could direct the next useful view, bringing visible detail, thermal context and asset references into one review.

MODULE DETAIL / THERMAL CONTEXT / ASSET LOCATION / FOLLOW-UP

Cover: AI-generated concept visual. An illustrative, operator-supervised inspection workflow.

PURPOSEFUL COLLECTION

From an array pattern to a focused inspection.

An aerial overview can reveal patterns that deserve attention. The next step is to gather the detail and operating context that help a reviewer assess what the observation means.

01

VISIBLE MODULE DETAIL

Clarify the first view

A visible feature on a module may need another angle or more optical detail. Propose collection that helps distinguish what is present in the image from glare, overlap or an unresolved appearance.

02

THERMAL CONTEXT

Bring temperatures into context

Where a compatible thermal source is available, connect the observation with visible detail and relevant operating conditions. A thermal pattern is a reason for investigation, not a diagnosis by itself.

03

ASSET ASSOCIATION

Keep the finding locatable

Relate imagery to the available array layout, row references or module identifiers. A focused observation is more useful when the reviewer can trace it to the intended asset without overstating location precision.

04

REPEAT REVIEW

Keep the follow-up connected

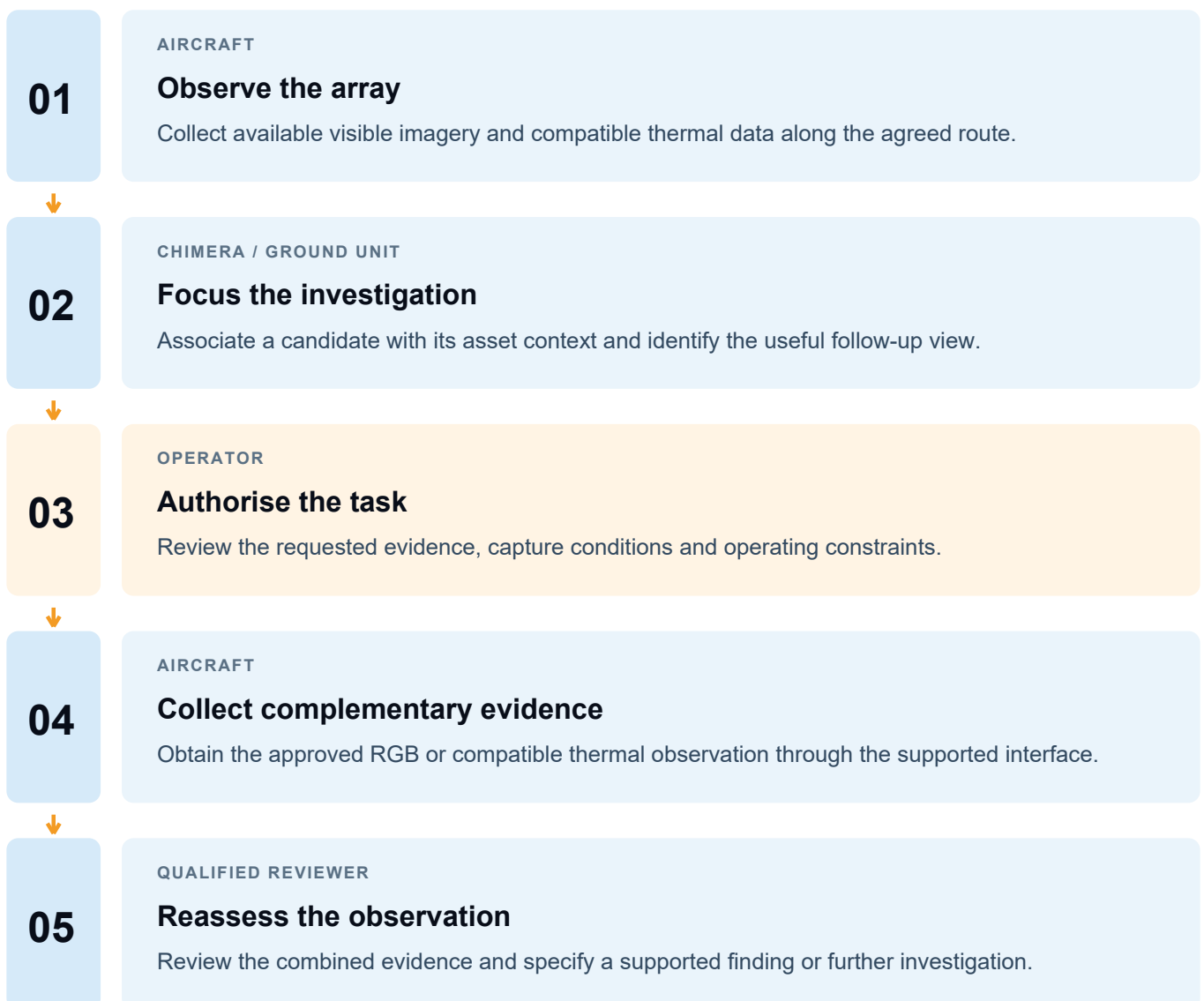
Retain the observation and later collection together. Comparison needs suitable capture and operating context; an image difference alone does not establish improved output or a repair outcome.

The aim: gather evidence that helps the reviewer answer the original inspection question.

OBSERVE. FOCUS. COLLECT.

A candidate observation. A targeted next view.

A proposed solar inspection loop: collect the evidence the reviewer needs next, with local analysis and an operator-approved response.

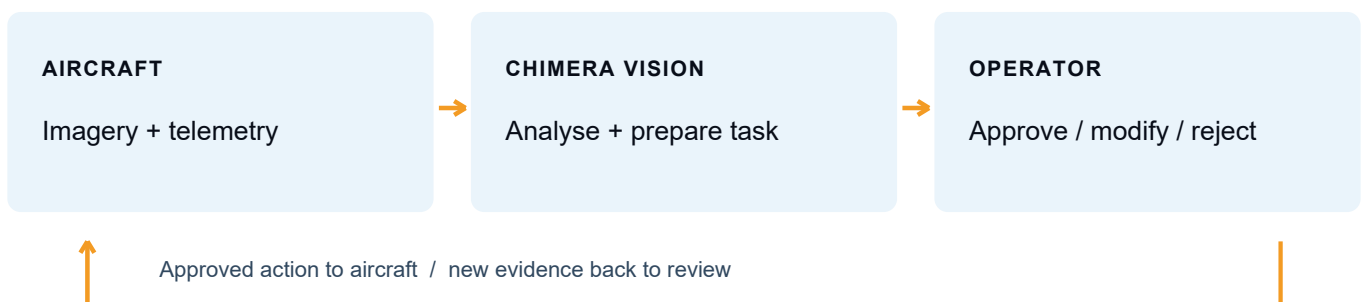


Proposed workflow. Collection depends on supported aircraft and payload interfaces, useful capture conditions and the operator-approved plan.

LOCAL INTELLIGENCE. CONNECTED EVIDENCE.

A local loop between observation and mission control.

The aircraft collects data. A ground unit beside the operator brings available evidence into analysis and helps prepare a purposeful follow-up.



RGB and compatible thermal data

Visible detail provides context for a temperature observation. Useful radiometric interpretation depends on the sensor, measurement settings, viewing conditions, reflections and relevant operating context.

Array layout and operating context

Available asset references, capture time and system operating records help identify the location and meaning of an observation. Sources need sufficient time and location alignment for the review question.

The local mission loop

Available aircraft data reaches a ground unit for analysis alongside the operator. Follow-up tasks remain subject to the supported aircraft and payload interface, the approved plan and useful capture conditions.

Local processing avoids cloud processing for this analysis workflow. It still depends on access to useful aircraft data. Link-loss and abort behaviour must be established with the flight system.

ILLUSTRATIVE ARRAY TASK

A thermal candidate. Visible context that matters.

Purposeful collection gives a reviewer a better evidence package without turning an initial pattern into an unsupported fault diagnosis.

Observation	Compatible thermal imagery contains a candidate temperature pattern.
Question	What visible detail and operating context are needed to assess it?
Requested evidence	A matched RGB view, asset reference and relevant capture conditions.
Operator decision	Approve, modify or reject the supported follow-up collection.
Review outcome	A reviewed observation, a need for further testing or an unresolved question.

THE EVIDENCE PACKAGE



ASSET REFERENCE

Source imagery connected to the available row or module context.



COMPLEMENTARY VIEWS

Visible and compatible thermal evidence associated with the question.



REVIEW DISPOSITION

The assessment, unresolved uncertainty and any required further check.

What makes a useful demonstration?

Judge whether the additional view improves interpretability and asset traceability. Any claim about faults, electrical performance or energy recovery needs its own supporting evidence.

DEFINE THE EVIDENCE TOGETHER

Bring one array question. Agree on the next view.

Define the asset, the available sensor data and operating context, and the evidence a qualified reviewer needs to assess the observation.

DISCUSS YOUR INSPECTION WORKFLOW

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POSSIBILITY AND REAL EVIDENCE

Solar workflows are proposed applications. Compatible sensors, aircraft interfaces and asset-specific performance require validation. Thermal and visible observations support review; they do not by themselves certify electrical condition or quantify lost generation.

The real field record: Strawberry 1

Chimera's published Strawberry 1 case documents repeated agricultural reviews, ground evidence and grower decisions. It shows a real evidence workflow; it does not establish solar deployment, thermal performance or energy-yield improvement.

[Explore the Strawberry 1 case study](#)

SOURCE ACCESS

From Field Signals to Field Action - Strawberry 1 case study, April-June 2026.

Evidence and calculation appendix - 7 October 2026; provenance and evidence limits.

Technical context: [NREL \(2024\) - Relating Aerial Infrared Thermography Defects to Photovoltaic Performance](#).

Cover: AI-generated concept illustration. Proposed applications are not evidence of a recorded sector deployment. Technical references provide context, not endorsement or Chimera performance results.

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