

CHIMERA VISION
MINING / SITE INTELLIGENCE

Intelligence that focuses the operation.

Observe. Focus. Verify.



Concept visual | Illustrative site workflow

A VISION FOR ADAPTIVE MINING INSPECTION

Read the operation. Focus the next observation.

Connect site imagery, local intelligence and operator-approved collection. Explore how a broad view of faces, stockpiles and operating areas could direct the next observation needed for a reviewable inspection record.

FACE DETAIL / STOCKPILE CONTEXT / VISIBLE CHANGE / SITE RECORDS

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

PURPOSEFUL COLLECTION

A broad operating view. A specific question to resolve.

Mining environments combine scale, changing surfaces and constrained viewpoints. Adaptive collection could help turn a broad observation into the focused evidence a site reviewer needs.

01

FACE AND BENCH DETAIL

Clarify a visible feature

An exposed face or bench may show a feature that needs a more useful angle. Propose imagery that improves visibility while staying within the operator-approved plan and the site's operating constraints.

02

STOCKPILE CONTEXT

Understand the visible shape

A first view may leave part of a stockpile or its surroundings obscured. Complementary collection can support a clearer visual record; any quantitative volume estimate needs a separately validated survey method.

03

SITE CHANGE

Connect the observation to time

Relate current imagery to earlier surveys and site records to examine visible change. Viewpoint, dust, illumination and surface conditions matter when interpreting the comparison.

04

OPERATING-AREA CONTEXT

Make the evidence locatable

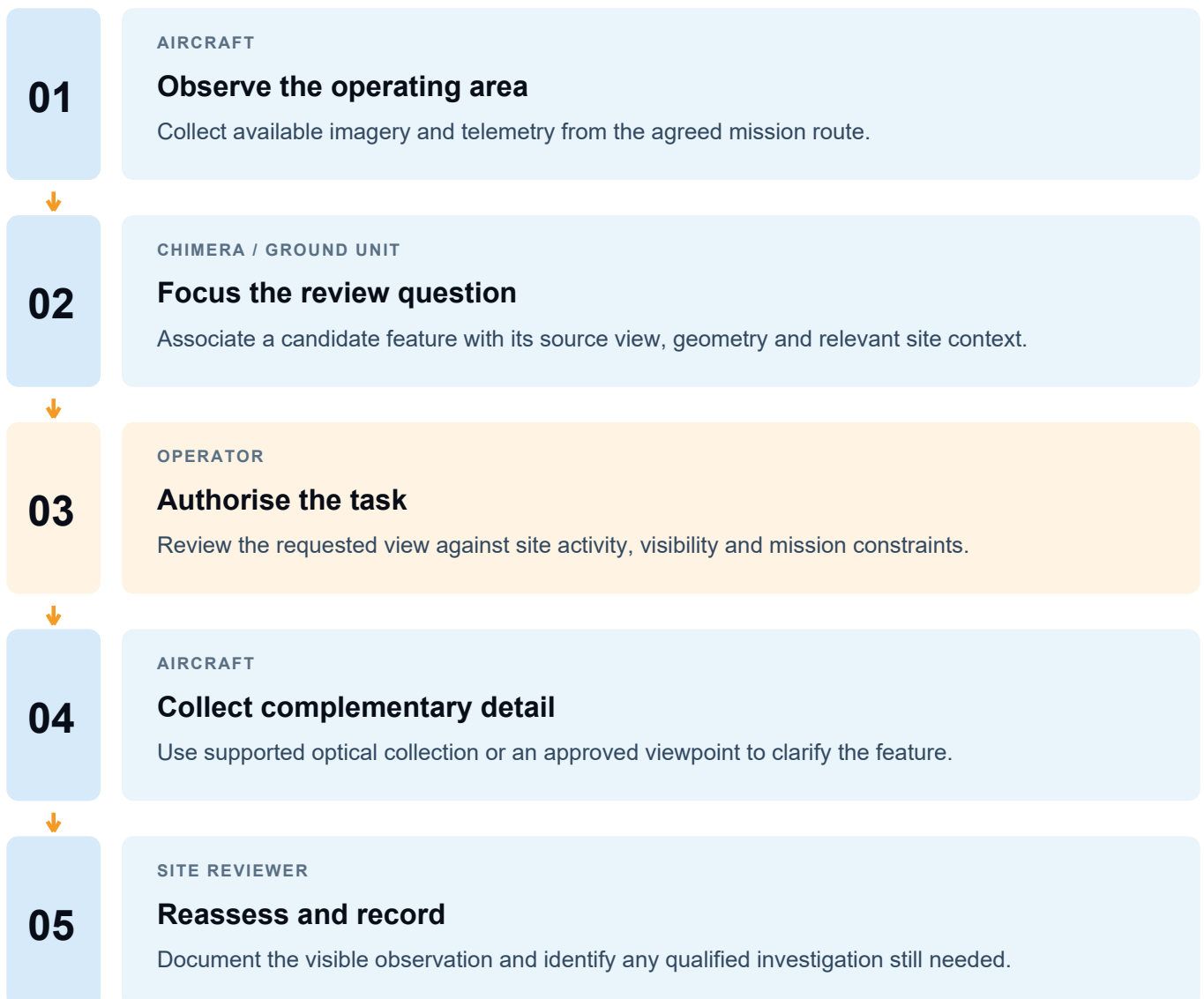
Associate a candidate with available geometry and the relevant operating area. The objective is to give the reviewer the scene context needed for a follow-up inspection or a qualified assessment.

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

OBSERVE. FOCUS. VERIFY.

A visible site feature. A more useful next view.

A proposed mining inspection loop that connects local review to purposeful evidence collection, with action authorised by the operator.

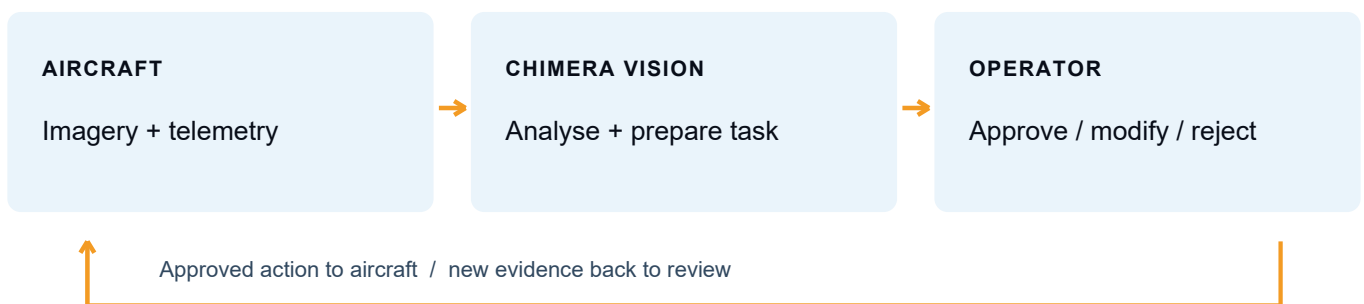


Proposed workflow. Collection depends on supported aircraft and payload interfaces, useful capture conditions and the operator-approved plan.

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 imagery and dated observations

Visible detail can support review of faces, stockpiles and operating areas. Resolution, viewing angle, dust and illumination determine what the evidence can show.

Geometry and site references

Available survey models and site-area identifiers help relate the observation to its surroundings. Source accuracy and coordinate alignment must be appropriate to the question being assessed.

Local interpretation and approved collection

A portable ground unit brings the analysis beside the operator. The supported aircraft interface and the site's mission constraints determine which proposed camera or flight actions can be considered.

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 SITE TASK

An ambiguous face feature. Evidence for a closer review.

The follow-up is designed to clarify a visible observation and preserve its context for the site's reviewer, without substituting an image for specialist assessment.

Observation	A first image leaves a visible face feature difficult to interpret.
Question	Which approved angle would show the feature and its surroundings?
Requested evidence	Complementary optical detail linked to the available site geometry.
Operator decision	Approve, modify or reject the task within the active site's constraints.
Review outcome	A visual record, a need for specialist investigation or an unresolved question.

THE EVIDENCE PACKAGE

LOCATED OBSERVATION The source view, capture time and available operating-area reference.	TARGETED COLLECTION Additional imagery linked to the reason the view was requested.	REVIEW RECORD The site reviewer's disposition and any required further investigation.
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What makes a useful demonstration?

Evaluate visibility, location context, the usefulness of the requested view and whether the reviewer can reach an appropriately supported assessment from the record.

DEFINE THE EVIDENCE TOGETHER

Bring one site question. Define the evidence needed.

Choose a visible inspection target, agree on operating constraints and establish what a useful review record would contain.

DISCUSS YOUR INSPECTION WORKFLOW

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POSSIBILITY AND REAL EVIDENCE

Mining workflows in this paper are proposed applications requiring platform and site-specific validation. Imagery does not by itself certify slope stability, stockpile volumes, resource estimates or the safety of an operating area.

The real field record: Strawberry 1

Chimera's published Strawberry 1 case is a real agricultural evidence workflow involving repeated aerial review, ground observations and grower decisions. It is not a mining deployment or proof of mining inspection performance.

[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: [USGS - UAS imagery calibration](#); [BLM - Mine-site production verification using UAS imagery](#).

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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