

ILLUSTRATIVE BRIEFING

Critical-minerals evaluation plan

Evidence, delivery and the next decision

Planning team / October 2026



ILLUSTRATIVE BRIEFING

From uncertainty to a testable plan

Critical-minerals evaluation / October 2026

Generated editorial imagery • Context only

A bounded evaluation before scale-up

Resolve the evidence gap before committing the next work package.

Recommendation: authorize a staged evidence plan

SCOPE	EVIDENCE	DECISION
One reference configuration and a defined operating envelope.	Repeat runs, traceable exclusions and a baseline comparison.	Release each stage only after its review gate.

Evaluation scope and decision path

A staged review connects evidence to a bounded commitment.

01	Context	The operating need and unresolved questions
02	Evidence	Methods, baselines and limits of interpretation
03	Delivery	Work sequence, milestones and accountable owners
04	Decision	Scope, resources and the next review

02

Build the evidence

Methods, baselines and limits of interpretation

Define what the evaluation can answer

Keep the question specific enough to test and the conclusion bounded.

Primary question

Evaluate repeatability within the agreed operating envelope.

Record the baseline, conditions and acceptance criteria before collecting data.

Use the finding to support a next decision, with explicit limitations.

Separate what is known from what must be tested

A common evidence record keeps assumptions visible.

Known inputs

Reference configuration

Available methods and access

Defined scope and exclusions

Open questions

Repeatability across runs

Sensitivity to operating conditions

Quality of the comparison baseline

Two ways to establish an evaluation baseline

Alternatives use the same dimensions: control, coverage and dependency.

CONTROLLED BENCH

Fixed conditions improve repeatability

Known reference configuration

Limited operating envelope

Calibrated equipment required

REPRESENTATIVE FIELD

Real conditions broaden coverage

Environmental variation retained

Attribution can be harder

Site access and operators required

A run plan with explicit review gates

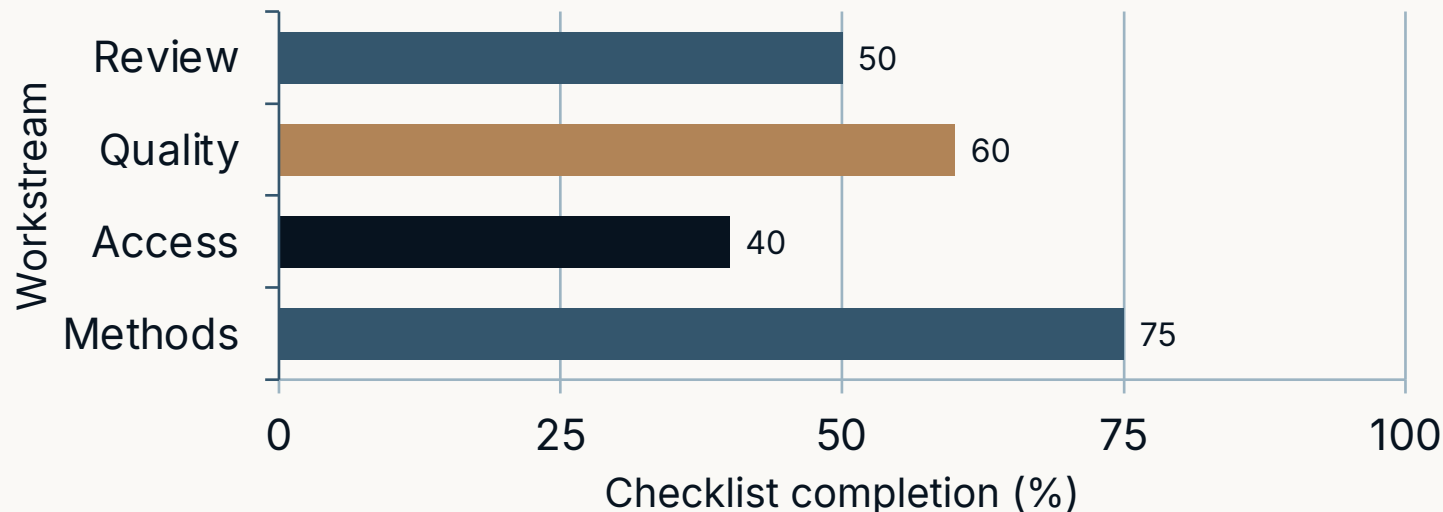
Match effort to the question and retain one reference configuration.

Condition	Runs planned	Reference	Review gate
Baseline	8	Config. A	Quality check
Nominal	12	Config. A	Repeatability
High input	12	Config. A	Operating limit
Recovery	8	Config. A	Restart check

Table 1. Illustrative run allocation; values are planning assumptions.
 Assumptions: access and calibration are available; no measured performance is asserted.

Readiness varies by workstream

Illustrative completion against a defined planning checklist.



Interpretation

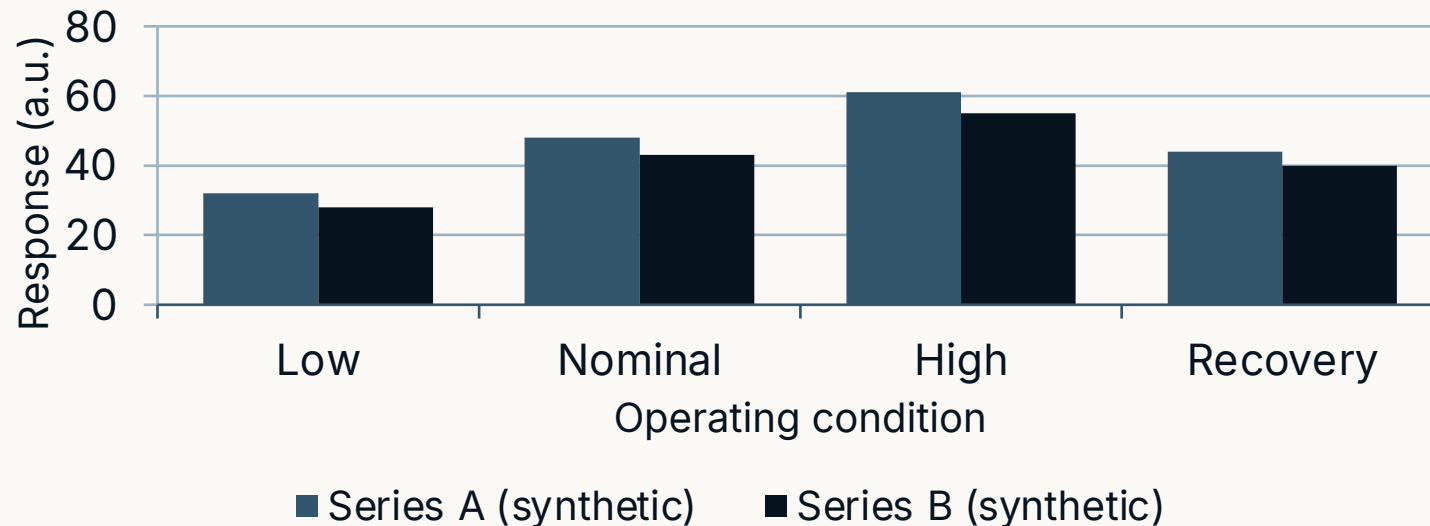
Access is the near-term dependency.

Completion reflects checklist items, not demonstrated capability.

Source: src/sample-data.json • Synthetic data • Illustration only; units and assumptions must accompany replacement data.

Compare the same operating conditions

Synthetic results illustrate a paired comparison; no measured performance is asserted.



Interpretation

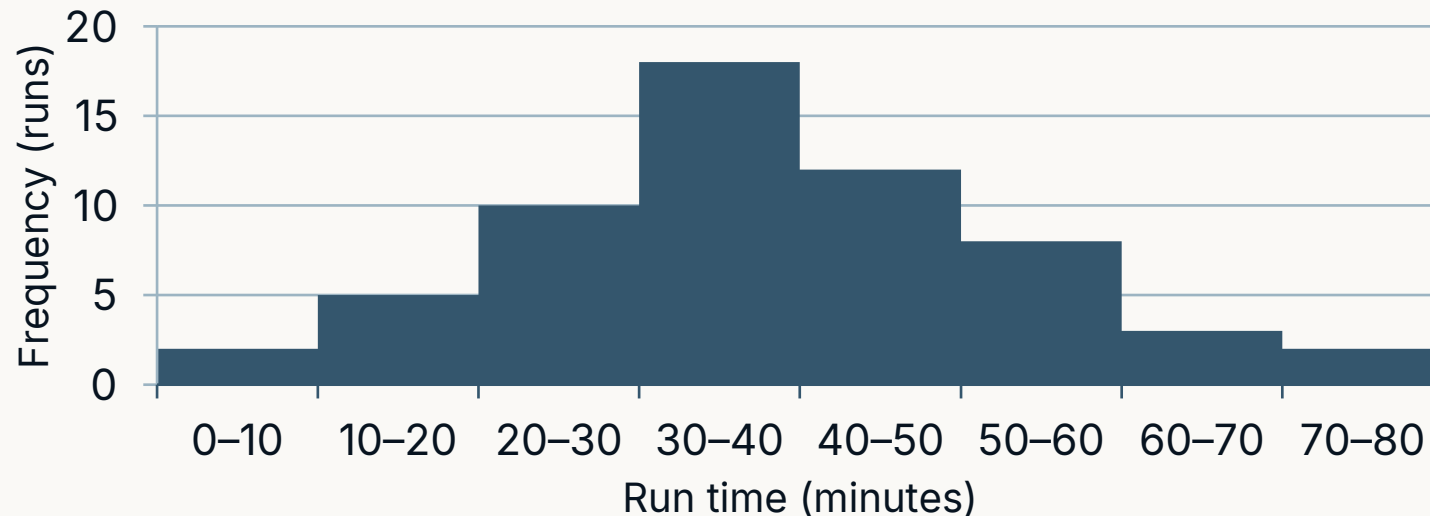
The paired series use the same four conditions.

Confirm uncertainty and repeatability before drawing a performance conclusion.

Source: src/sample-data.json • Synthetic data • Illustration only; units and assumptions must accompany replacement data.

Inspect the distribution before averaging

Sixty synthetic run times; equal-width numerical bins of 10 minutes.



Interpretation

Most runs fall between 20 and 50 minutes.

The illustrative sample does not estimate operational throughput.

Source: src/sample-data.json • Synthetic data • Bins: [low, high); last bin includes its upper edge.

Analytic response field and its limits

The model illustrates spatial variation; empirical validation remains open.

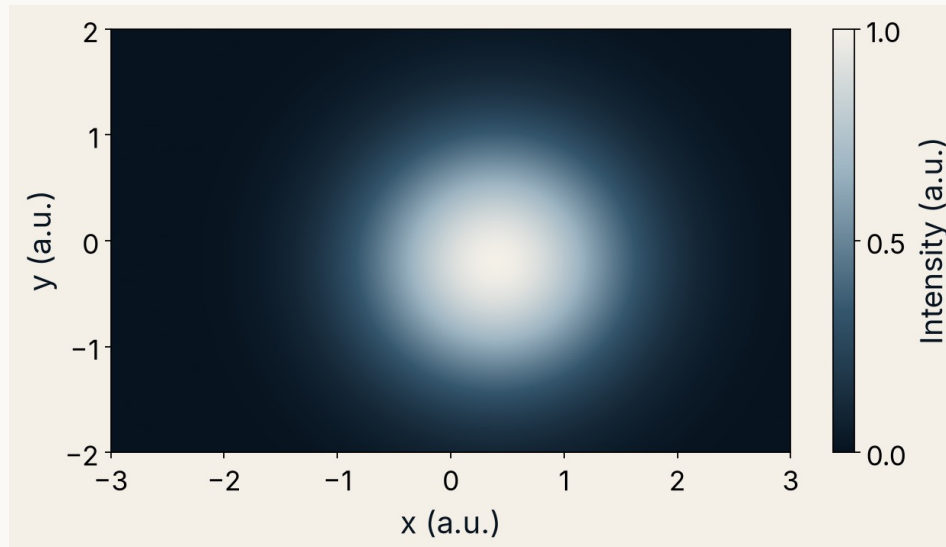


Figure 1. Analytic Gaussian field; coordinates and intensity use arbitrary units.

Source: scripts/sample_figures.py • Analytic Gaussian model; not empirical observations

Analytic field

A deterministic Gaussian surface.

Limitation

No empirical data or uncertainty estimate.

A controlled path from scope to evidence

Three linked stages define the work; dates belong in the timeline.

01

Frame the evaluation

Agree the question, reference configuration and acceptance criteria.

02

Collect the evidence

Record operating conditions, repeat runs and trace exclusions.

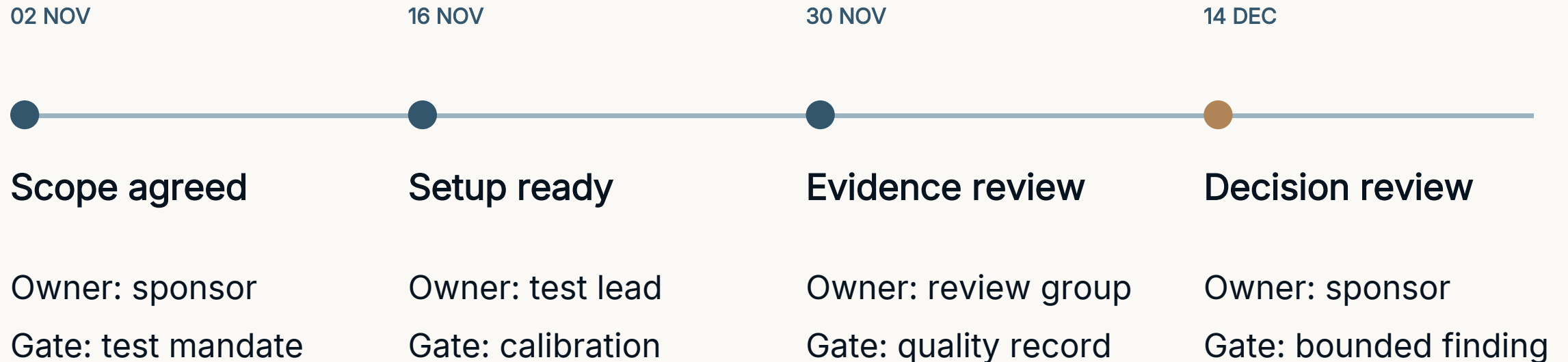
03

Review the result

Compare with the baseline and retain unresolved limitations.

Review gates anchor the schedule

Illustrative dates; each gate requires an explicit evidence package.



Three workstreams converge on the review

Illustrative phase plan; dependencies determine the release of work.

	NOVEMBER	DECEMBER	JANUARY
Methods	Protocol & baseline	Repeat-run review	Method release
Access	Confirm availability	Book evaluation	Handover
Governance	Agree scope	Evidence gate	Next investment

Planning assumptions • Owners and dates are agreed at each gate; no delivery commitment is implied.

Context for the evaluation environment

Use atmosphere to orient the audience; keep evidence claims separate.

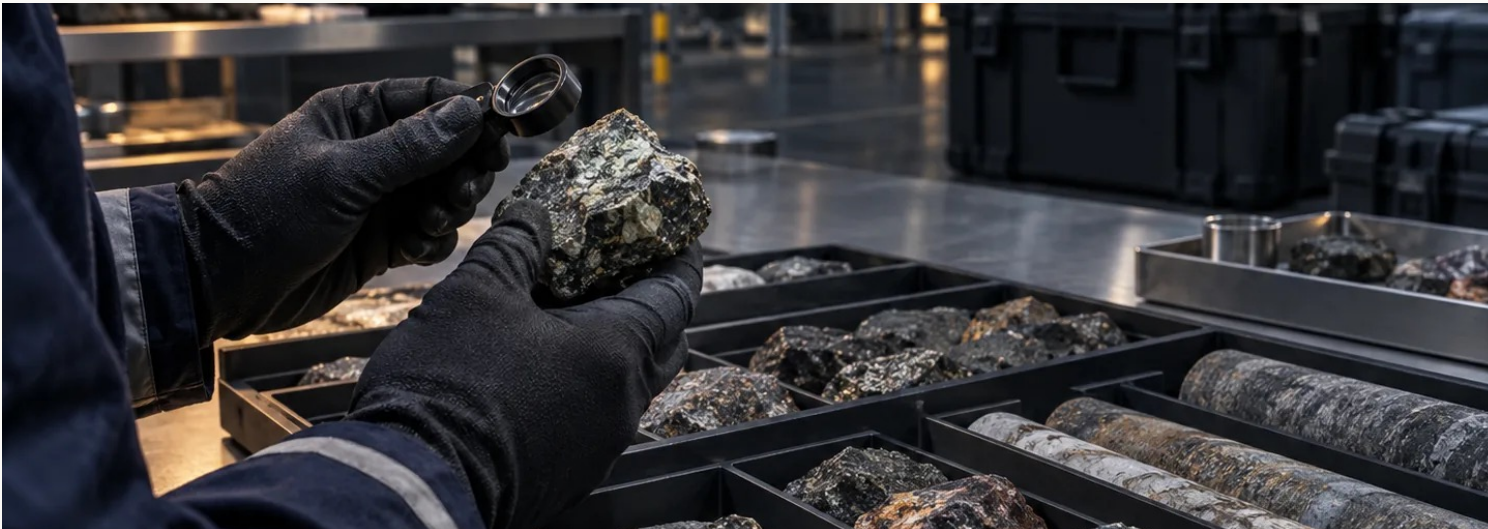


Generated editorial scene of mineral assessment in an industrial setting.

Website imagery • Generated editorial image • Context only; not an actual specimen, facility or result

Ground the discussion in its operating context

Separate editorial context from observations and technical evidence.



The evidence boundary

Editorial setting only.

Use the evaluation record for actual materials, conditions and results.

Generated editorial imagery • Context only; not an actual facility, specimen or evaluation result

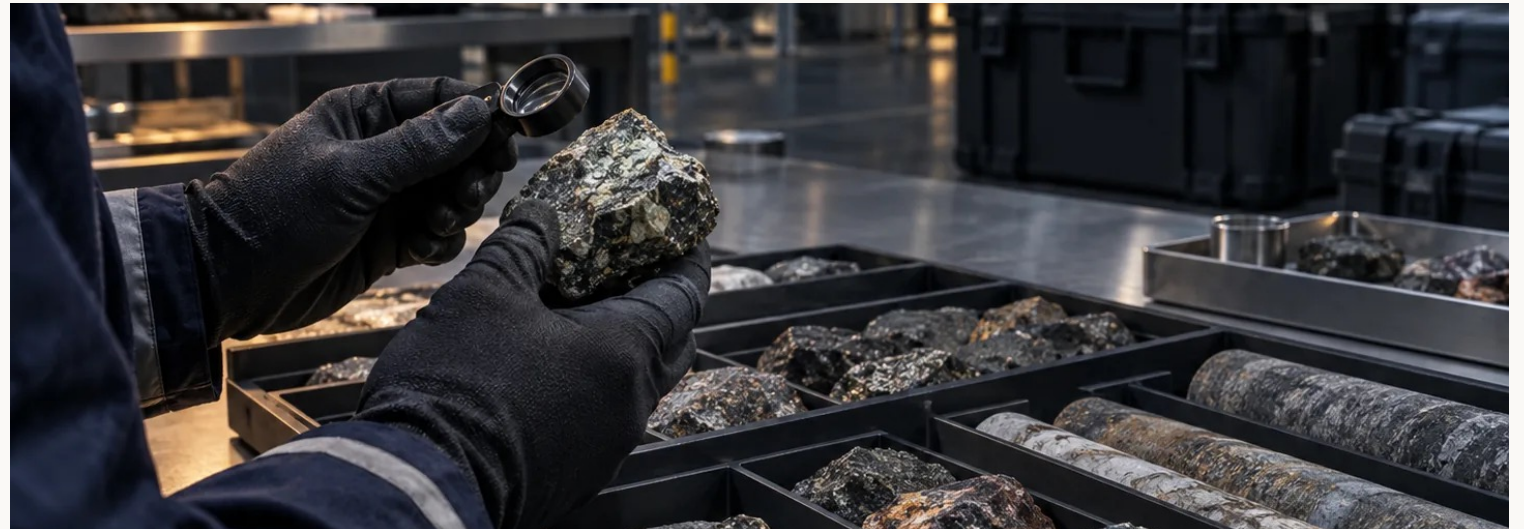
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Use the evaluation record for actual materials, conditions and results.



Generated editorial imagery • Context only; not an actual facility, specimen or evaluation result

Ground the discussion in its operating context

Separate editorial context from observations and technical evidence.



The evidence boundary

The photograph introduces the setting.

Use the evaluation record to describe actual materials, conditions and results.

Generated editorial imagery • Context only; not an actual facility, specimen or evaluation result

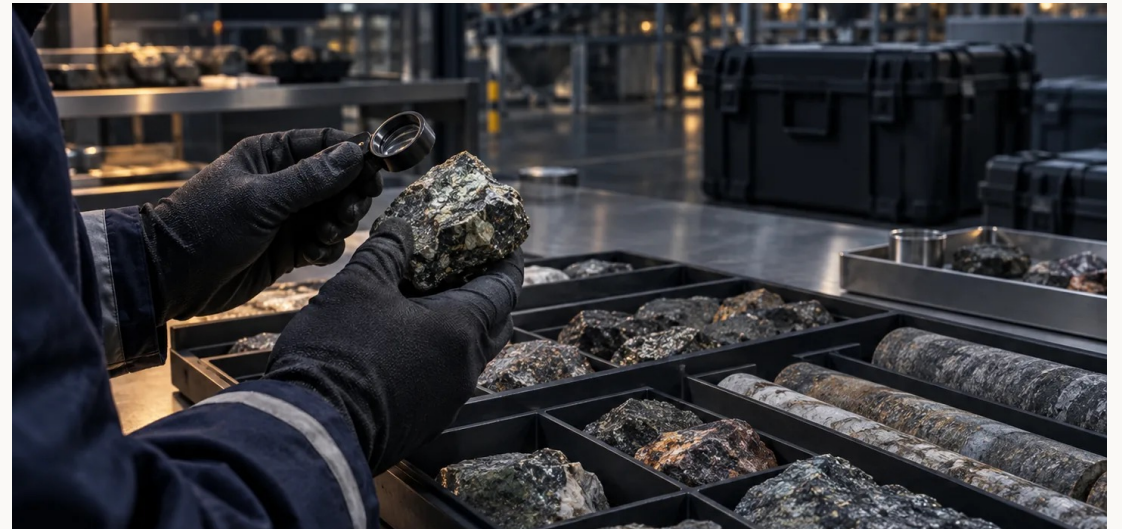
Ground the discussion in its operating context

Separate editorial context from observations and technical evidence.

The evidence boundary

The photograph introduces the setting.

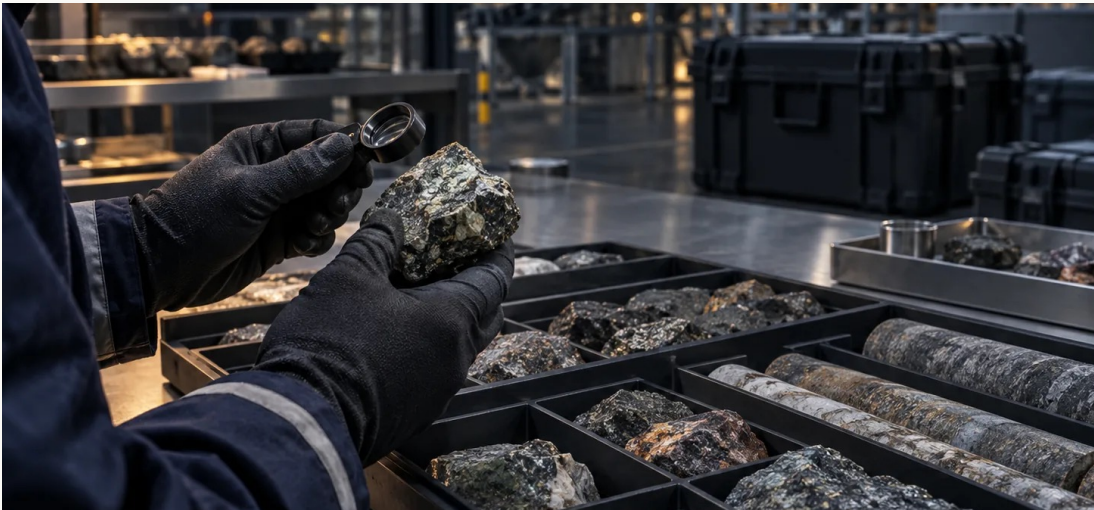
Use the evaluation record to describe actual materials, conditions and results.



Generated editorial imagery • Context only; not an actual facility, specimen or evaluation result

Connect the setting to the wider question

Two editorial views provide context at different scales.



Assessment context at the material scale.



A wider environmental perspective.

Website imagery • Both images are generated editorial context, not actual facilities, observations or results.

Keep the evidence chain traceable

Interfaces make the record usable by the next team.

ACQUIRE

Inputs and conditions
Timestamped run record

REVIEW

→ Quality and exclusions
Traceable dataset

DECIDE

→ Criteria and limitations
Bounded finding

Illustrative data flow • Each handoff retains configuration, source record and review status.

Authorize the next bounded work package

A decision names the work, the accountable owner and the review condition.

DECISION

Approve the evaluation scope

Sponsor confirms the question, exclusions and acceptance criteria.

OWNER

Assign the evaluation lead

Lead coordinates access, methods and the evidence record.

TIMING

Review before release

The sponsor accepts the first gate before the next phase begins.

“Make the question testable,
and the conclusion bounded.”

ILLUSTRATIVE BRIEFING PRINCIPLE

Original sample wording • Not attributed to an external speaker

Thank you

A considered next step begins
with a shared understanding.

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NEXT STEP

Confirm the evaluation scope and review gate

Owner: evaluation sponsor

Timing: before the next planning cycle

Thank you

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Thank you

A considered next step begins
with a shared understanding.

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Generated editorial imagery • Context only

Retain the record behind the decision

Use the appendix for methods, definitions and evidence limitations.

Evidence record

Configuration and baseline

Calibration and operating conditions

Run-level records and exclusions

Acceptance criteria and review notes

Limits of this illustration

Chart values and schedules are synthetic. The figure is analytic; photographs are generated editorial imagery. No operational result, resource estimate or forecast is asserted.