Scientific Recognition Architecture Operational Specification — Version 1.0

Laboratory of Military Ecotones

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PROBLEM

The object develops before the explanation

Environmental processes continue while scientific explanations remain incomplete.

Separate disciplines can describe fragments and leave their relationships unresolved.

A fixed project design can exclude changes in the object.

Research needs a way to continue under persistent uncertainty.

Specification §§1–3

Scientific Recognition

Recognition means progressively making the empirical object scientifically recognisable.

It organises observations, relationships, boundaries and uncertainties.

Existing theories and competing hypotheses remain available.

Recognition continues when a scientific explanation emerges.

Specification §§4.1–4.2, 4.9

Object priority and explanatory control

The empirical object governs research boundaries and organisation.

Disciplinary competence remains specialised. Project cognition is common.

Institutional authority gives no explanation automatic priority.

Empirical correspondence governs revision or rejection.

Specification §§3.1, 3.5, 6.5

The operational sequence

Operational work	Purpose
Observations and recognition	Define the developing object and explicit uncertainties
Navigation and relational field	Choose the next inquiry and organise recognised relationships
Process morphology and possibilities	Describe the process and develop competing explanations
Explanation and verification	Test the explanation against the evolving empirical object

Specification §5. Grouped presentation of the operational sequence.

Scientific Navigation and the research record

Every observation retains its source and available spatial and temporal context.

Relationships distinguish empirical association from inferred causality.

Uncertainty and contradictory records remain visible.

A change of direction records what changed and why.

Specification §§6.1–6.4, 9

Participation and operational readiness

Participants accept the common architecture before project entry.

Agreement with a particular explanation is unnecessary.

Training tests reproducible cognitive operations.

Disciplinary contributions enter the common investigation continuously.

Specification §§7.1, 7.4, 8

Version control and operational review

The project identifies and retains its accepted specification version.

Operational difficulties and justified deviations enter the record.

Review distinguishes implementation, contradiction and insufficient evidence.

Compliance does not establish scientific truth.

Specification §§11–16

Application to the theory of military ecotones

War changes the operating regime of a territory.

A military ecotone includes altered functions, relationships and trajectories.

Chemical contamination forms one component of the object.

Theory development preserves concepts, rejected terms and unresolved questions.

Soil after war as a configurational object

Soil history combines with military disturbance and changes in territorial use.

Water, biota and human presence alter the subsequent trajectory.

The protocol proposes indicators and research polygons for testing relationships.

The result is an open dynamic profile of soil within the military ecotone.

Cognitive organisation of expert–AI research

AI assists comparison, information integration and development of hypotheses.

Source material remains distinguishable from AI-derived interpretation.

The protocol preserves questions, conceptual changes and rejected alternatives.

The expert evaluates the claims and identifies the tests they require.

Articles 79, 73 and 94

Two laboratories and a common research approach

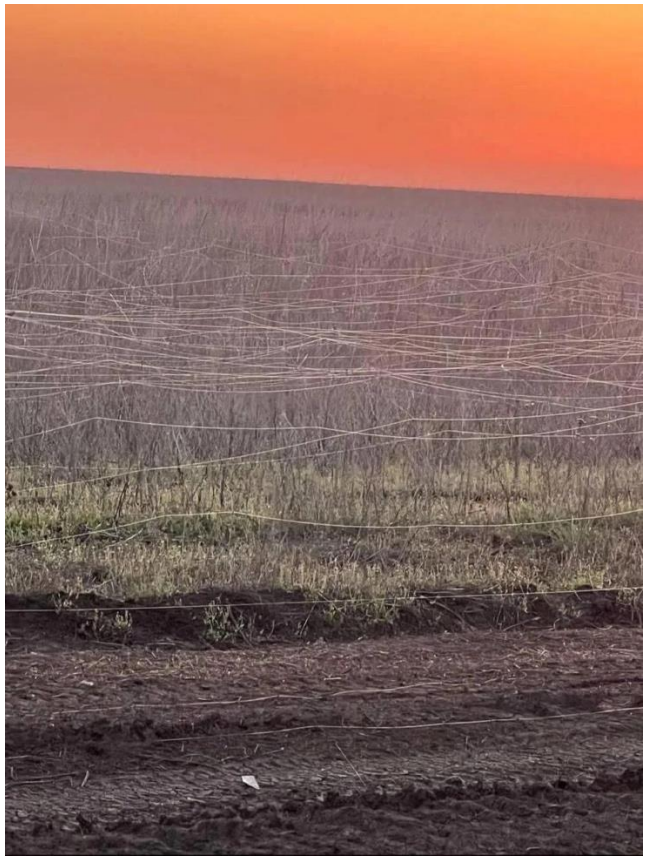
Laboratory	Principal function
Military Ecotones	Field observation, sampling, environmental interpretation and method development
Information Systems	Preservation, provenance, integration and analysis of complex information

Field evidence changes the information model.
Information analysis guides the next field inquiry.

Laboratory charters / articles 71 and 73. Cooperation uses the presenter's research approach.

EXAMPLE

Recognition of a new contamination object



Fiber-optic drone tether debris has a distinctive filamentous form.

The paper proposes a separate contamination category.

Fragmentation into polymer microfibers is a research pathway.

The article provides a conceptual framework, not field validation.

Nikolaenko (2026), article 13, Figure 2. Public photograph reproduced in the article.

Field verification and discriminatory observations

Site access is a practical condition. A process model guides site selection.

Observations test relationships and distinguish competing hypotheses.

Reference stations, repeated observations and pilot studies support verification.

AI assistance leaves sampling, analysis and representativeness to empirical work.

Field Verification / article 79. Tether example: proposed application.

Published foundations and applications

Nikolaenko. Scientific Recognition Architecture, v1.0
Article 61 / DOI: 10.66659/q52haz36

Nikolaenko. The Paradigm of the Military Ecotone
Article 92 / DOI: 10.66659/nhzds093

Nikolaenko. Soil after War protocol, v1.0
Article 94 / DOI: 10.66659/84a13358

Laboratory of Military Ecotones. Field Verification
Article 79 / DOI: 10.66659/2qwv2037

New Euro Vision. Laboratory charters
Articles 71 and 73 / DOI: 10.66659/tykjpc41; 10.66659/j7j67v06

Nikolaenko. Fiber-Optic Drone Tether Debris
Article 13 / DOI: 10.66659/swfqsz58

All publications: Pollution and Diseases (2026)

KEY TAKEAWAYS

A research approach open to empirical revision

Scientific Recognition keeps the developing object at the centre of investigation.

The specification provides operational rules for uncertainty and continuity.

Military-ecotone theory and expert–AI work put the approach into use.

Its effectiveness must be demonstrated through research practice.

Specification §§15–16

Published specification

DOI: 10.66659/q52haz36